Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157932

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

May 17, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

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: Jared Acker, Environmental Standards
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.: 40157932

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.: 40157932

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157932001	**CS1-170620-01-YP-10**	Tissue	06/20/17 14:32	10/04/17 14:05
40157932002	**CS1-170620-01-YP-09**	Tissue	06/20/17 14:30	10/04/17 14:05
40157932003	**CS1-170620-01-YP-08**	Tissue	06/20/17 14:28	10/04/17 14:05
40157932004	**CS1-170620-01-YP-07**	Tissue	06/20/17 14:26	10/04/17 14:05
40157932005	**CS1-170620-01-YP-06**	Tissue	06/20/17 14:24	10/04/17 14:05
40157932006	**CS1-170620-01-YP-05**	Tissue	06/20/17 14:22	10/04/17 14:05
40157932007	**AT1-170620-01-YP-10**	Tissue	06/20/17 15:05	10/04/17 14:05
40157932008	**AT1-170620-01-YP-09**	Tissue	06/20/17 15:04	10/04/17 14:05
40157932009	**AT1-170620-01-YP-08**	Tissue	06/20/17 15:02	10/04/17 14:05
40157932010	**AT1-170620-01-YP-07**	Tissue	06/20/17 15:01	10/04/17 14:05
40157932011	**AT1-170620-01-YP-06**	Tissue	06/20/17 14:59	10/04/17 14:05

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157932001	**CS1-170620-01-YP-10**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932002	**CS1-170620-01-YP-09**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932003	**CS1-170620-01-YP-08**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932004	**CS1-170620-01-YP-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932005	**CS1-170620-01-YP-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932006	**CS1-170620-01-YP-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932007	**AT1-170620-01-YP-10**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932008	**AT1-170620-01-YP-09**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932009	**AT1-170620-01-YP-08**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932010	**AT1-170620-01-YP-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157932011	**AT1-170620-01-YP-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 17, 2018

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

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

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

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

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

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

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

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

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

QC Batch: 286202

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157932003

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

- MS (Lab ID: 1674425)
  - PCB-1242 (Aroclor 1242)

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

QC Batch: 286202

R1: RPD value was outside control limits.

- DUP (Lab ID: 1674426)
  - PCB-1248 (Aroclor 1248)

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 17, 2018

Analyte Comments:

QC Batch: 286202

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

- DUP (Lab ID: 1674426)
  - PCB-1016 (Aroclor 1016)
- MS (Lab ID: 1674425)
  - PCB-1016 (Aroclor 1016)

2q: The duplicate acceptance criteria for sample results when at least one result is <5x the reporting limit is the difference between the results is <2x the reporting limit. The sample and duplicate precision do not exceed project criteria.

- DUP (Lab ID: 1674426)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 17, 2018

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 17, 2018

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: CS1-170620-01-YP-10 **Lab ID: 40157932001** Collected: 06/20/17 14:32 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)	**<11.4**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**112**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**113**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**53.6**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	11096-82-5	
PCB, Total	**279**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 16:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	04/17/18 07:09	04/18/18 16:55	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/17/18 07:09	04/18/18 16:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.44**	%	0.030	0.030	1		04/18/18 07:47		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: CS1-170620-01-YP-09 **Lab ID: 40157932002** Collected: 06/20/17 14:30 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)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**125**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**87.2**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**29.6J**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	11096-82-5	
PCB, Total	**242**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 17:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	04/17/18 07:09	04/18/18 17:11	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	04/17/18 07:09	04/18/18 17:11	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.79**	%	0.030	0.030	1		04/18/18 07:47		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: CS1-170620-01-YP-08 **Lab ID: 40157932003** Collected: 06/20/17 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)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**193**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	12672-29-6	R1
PCB-1254 (Aroclor 1254)	**123**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**59.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	11096-82-5	
PCB, Total	**375**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 17:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	04/17/18 07:09	04/18/18 17:27	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	04/17/18 07:09	04/18/18 17:27	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.92**	%	0.030	0.030	1		04/18/18 07:47		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: CS1-170620-01-YP-07 **Lab ID: 40157932004** Collected: 06/20/17 14:26 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)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**91.7**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**66.1**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**29.1J**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	11096-82-5	
PCB, Total	**187**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	04/17/18 07:09	04/18/18 18:15	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	04/17/18 07:09	04/18/18 18:15	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.59**	%	0.030	0.030	1		04/18/18 07:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: CS1-170620-01-YP-06 **Lab ID: 40157932005** Collected: 06/20/17 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)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**48.2J**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**30.8J**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**28.6J**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	11096-82-5	
PCB, Total	**108**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 18:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	04/17/18 07:09	04/18/18 18:30	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	04/17/18 07:09	04/18/18 18:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%	0.030	0.030	1		04/18/18 07:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: CS1-170620-01-YP-05 **Lab ID: 40157932006** Collected: 06/20/17 14:22 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)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**35.1J**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**24.3J**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.6J**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	11096-82-5	
PCB, Total	**79.1**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 18:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	04/17/18 07:09	04/18/18 18:46	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	04/17/18 07:09	04/18/18 18:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.38**	%	0.030	0.030	1		04/18/18 07:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: AT1-170620-01-YP-10 **Lab ID: 40157932007** Collected: 06/20/17 15:05 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)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**107**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**95.7**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**75.9**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	11096-82-5	
PCB, Total	**279**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 19:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		1	04/17/18 07:09	04/18/18 19:02	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		1	04/17/18 07:09	04/18/18 19:02	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%	0.030	0.030	1		04/18/18 07:49		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: AT1-170620-01-YP-09 **Lab ID: 40157932008** Collected: 06/20/17 15:04 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)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**36.7J**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**130**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**118**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**90.8**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	11096-82-5	
PCB, Total	**375**	ug/kg	50.0	11.4	1	04/17/18 07:09	04/18/18 19:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		1	04/17/18 07:09	04/18/18 19:18	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	04/17/18 07:09	04/18/18 19:18	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.47**	%	0.030	0.030	1		04/18/18 07:49		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: AT1-170620-01-YP-08 **Lab ID: 40157932009** Collected: 06/20/17 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)	**<11.4**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**43.9J**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**96.2**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**73.9**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**28.8J**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	11096-82-5	
PCB, Total	**243**	ug/kg	50.1	11.4	1	04/17/18 07:09	04/18/18 20:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	04/17/18 07:09	04/18/18 20:06	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	04/17/18 07:09	04/18/18 20:06	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.61**	%	0.030	0.030	1		04/18/18 07:49		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: AT1-170620-01-YP-07 **Lab ID: 40157932010** Collected: 06/20/17 15:01 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)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**99.6**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**61.8**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**50.7**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	11096-82-5	
PCB, Total	**212**	ug/kg	50.2	11.4	1	04/17/18 07:09	04/18/18 20:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	04/17/18 07:09	04/18/18 20:21	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		1	04/17/18 07:09	04/18/18 20:21	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.63**	%	0.030	0.030	1		04/18/18 07:49		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Sample: AT1-170620-01-YP-06 **Lab ID: 40157932011** Collected: 06/20/17 14:59 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)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**59.2**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**230**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**157**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**153**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	11096-82-5	
PCB, Total	**600**	ug/kg	49.9	11.4	1	04/17/18 07:09	04/18/18 20:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		1	04/17/18 07:09	04/18/18 20:37	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		1	04/17/18 07:09	04/18/18 20:37	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/05/18 10:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		04/18/18 07:50		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

QC Batch: 286202 — Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157932001, 40157932002, 40157932003, 40157932004, 40157932005, 40157932006, 40157932007, 40157932008, 40157932009, 40157932010, 40157932011

METHOD BLANK: 1674422 — Matrix: Tissue
Associated Lab Samples: 40157932001, 40157932002, 40157932003, 40157932004, 40157932005, 40157932006, 40157932007, 40157932008, 40157932009, 40157932010, 40157932011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
Decachlorobiphenyl (S)	%	89	60-140		04/18/18 14:33	
Tetrachloro-m-xylene (S)	%	77	60-140		04/18/18 14:33	

LABORATORY CONTROL SAMPLE: 1674423

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	247	99	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)	%			97	60-140	
Tetrachloro-m-xylene (S)	%			84	60-140	

MATRIX SPIKE SAMPLE: 1674425

Parameter	Units	40157932003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<22.8			1q
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<22.8			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	251	328	131	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	193		426			
PCB-1254 (Aroclor 1254)	ug/kg	123		198			
PCB-1260 (Aroclor 1260)	ug/kg	59.4		91.9J			
Decachlorobiphenyl (S)	%				98	60-140	
Tetrachloro-m-xylene (S)	%				93	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.: 40157932

SAMPLE DUPLICATE: 1674424

Parameter	Units	40157830016 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.2	<34.2		40	
PCB-1221 (Aroclor 1221)	ug/kg	<34.2	<34.2		40	
PCB-1232 (Aroclor 1232)	ug/kg	<34.2	<34.2		40	
PCB-1242 (Aroclor 1242)	ug/kg	<34.2	<34.2		40	
PCB-1248 (Aroclor 1248)	ug/kg	764	797	4	40	
PCB-1254 (Aroclor 1254)	ug/kg	579	607	5	40	
PCB-1260 (Aroclor 1260)	ug/kg	113J	120J		40	
Decachlorobiphenyl (S)	%	104	100	5		
Tetrachloro-m-xylene (S)	%	91	90	1		

SAMPLE DUPLICATE: 1674426

Parameter	Units	40157932003 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<22.7		40	1q
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<22.7		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<22.7		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<22.7		40	
PCB-1248 (Aroclor 1248)	ug/kg	193	328	52	40	R1
PCB-1254 (Aroclor 1254)	ug/kg	123	212	53	40	2q
PCB-1260 (Aroclor 1260)	ug/kg	59.4	108	58	40	2q
Decachlorobiphenyl (S)	%	90	102	13		
Tetrachloro-m-xylene (S)	%	91	98	8		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

QC Batch: 286328 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157932001, 40157932002, 40157932003, 40157932004, 40157932005, 40157932006, 40157932007, 40157932008, 40157932009, 40157932010, 40157932011

METHOD BLANK: 1674924 | Matrix: Tissue
Associated Lab Samples: 40157932001, 40157932002, 40157932003, 40157932004, 40157932005, 40157932006, 40157932007, 40157932008, 40157932009, 40157932010, 40157932011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/18/18 07:45	

MATRIX SPIKE SAMPLE: 1683154

Parameter	Units	40157932003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.92		1.0			

SAMPLE DUPLICATE: 1674926

Parameter	Units	40157830016 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.48	0.52	8	40	

SAMPLE DUPLICATE: 1674928

Parameter	Units	40157932003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.92	1.1	21	40	

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

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

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.
2q	The duplicate acceptance criteria for sample results when at least one result is <5x the reporting limit is the difference between the results is <2x the reporting limit. The sample and duplicate precision do not exceed project criteria.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157932

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157932001	**CS1-170620-01-YP-10**	EPA 3541	286202	EPA 8082A Mod	286371
40157932002	**CS1-170620-01-YP-09**	EPA 3541	286202	EPA 8082A Mod	286371
40157932003	**CS1-170620-01-YP-08**	EPA 3541	286202	EPA 8082A Mod	286371
40157932004	**CS1-170620-01-YP-07**	EPA 3541	286202	EPA 8082A Mod	286371
40157932005	**CS1-170620-01-YP-06**	EPA 3541	286202	EPA 8082A Mod	286371
40157932006	**CS1-170620-01-YP-05**	EPA 3541	286202	EPA 8082A Mod	286371
40157932007	**AT1-170620-01-YP-10**	EPA 3541	286202	EPA 8082A Mod	286371
40157932008	**AT1-170620-01-YP-09**	EPA 3541	286202	EPA 8082A Mod	286371
40157932009	**AT1-170620-01-YP-08**	EPA 3541	286202	EPA 8082A Mod	286371
40157932010	**AT1-170620-01-YP-07**	EPA 3541	286202	EPA 8082A Mod	286371
40157932011	**AT1-170620-01-YP-06**	EPA 3541	286202	EPA 8082A Mod	286371
40157932001	**CS1-170620-01-YP-10**	Pace Gender Typing	285262		
40157932002	**CS1-170620-01-YP-09**	Pace Gender Typing	285262		
40157932003	**CS1-170620-01-YP-08**	Pace Gender Typing	285262		
40157932004	**CS1-170620-01-YP-07**	Pace Gender Typing	285262		
40157932005	**CS1-170620-01-YP-06**	Pace Gender Typing	285262		
40157932006	**CS1-170620-01-YP-05**	Pace Gender Typing	285262		
40157932007	**AT1-170620-01-YP-10**	Pace Gender Typing	285262		
40157932008	**AT1-170620-01-YP-09**	Pace Gender Typing	285262		
40157932009	**AT1-170620-01-YP-08**	Pace Gender Typing	285262		
40157932010	**AT1-170620-01-YP-07**	Pace Gender Typing	285262		
40157932011	**AT1-170620-01-YP-06**	Pace Gender Typing	285262		
40157932001	**CS1-170620-01-YP-10**	Pace Lipid	286328		
40157932002	**CS1-170620-01-YP-09**	Pace Lipid	286328		
40157932003	**CS1-170620-01-YP-08**	Pace Lipid	286328		
40157932004	**CS1-170620-01-YP-07**	Pace Lipid	286328		
40157932005	**CS1-170620-01-YP-06**	Pace Lipid	286328		
40157932006	**CS1-170620-01-YP-05**	Pace Lipid	286328		
40157932007	**AT1-170620-01-YP-10**	Pace Lipid	286328		
40157932008	**AT1-170620-01-YP-09**	Pace Lipid	286328		
40157932009	**AT1-170620-01-YP-08**	Pace Lipid	286328		
40157932010	**AT1-170620-01-YP-07**	Pace Lipid	286328		
40157932011	**AT1-170620-01-YP-06**	Pace Lipid	286328		

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40157932

SSM

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170620-T11-02
Sample Custodian: JER
Lab: Pace - Green Bay

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

OK 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)	
001	CS1-170620-01	CS1-170620-01-YP-10	6/20/2017	14:32	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
002	CS1-170620-01	CS1-170620-01-YP-09	6/20/2017	14:30	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	CS1-170620-01	CS1-170620-01-YP-08	6/20/2017	14:28	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	CS1-170620-01	CS1-170620-01-YP-07	6/20/2017	14:26	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	CS1-170620-01	CS1-170620-01-YP-06	6/20/2017	14:24	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	CS1-170620-01	CS1-170620-01-YP-05	6/20/2017	14:22	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	AT1-170620-01	AT1-170620-01-YP-10	6/20/2017	15:05	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	AT1-170620-01	AT1-170620-01-YP-09	6/20/2017	15:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	AT1-170620-01	AT1-170620-01-YP-08	6/20/2017	15:02	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	AT1-170620-01	AT1-170620-01-YP-07	6/20/2017	15:01	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature J. R	Signature J. Bitt	Signature J. Bitt via FEDEX	Signature Ted W	Signature Susan K. Wylie	Signature
Print Name Jim Ryan	Print Name J. BITTIE	Print Name J. BITTIE	Print Name	Print Name Susan K. Wylie	Print Name
Company Anchor QEA	Company PACE T=0.2C	Company PACE	Company	Company Pace	Company
Date/Time 6/21/17 8:30	Date/Time 6/21/17 08:30	Date/Time 10/3/17 16:00	Date/Time 10/4/17 1405	Date/Time 10/4/17 1405	Date/Time

Date Printed: 6/20/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

40157932

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170620-T11-02
Sample Custodian: JER
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

OK 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-I-009)	
011	AT1-170620-01	AT1-170620-01-YP-06	6/20/2017	14:59	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc *

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature]	Signature [signature] VIA FED EX	Signature [signature]	Signature [signature]	Signature
Print Name Jim Ryan	Print Name N. Bittner	Print Name N. Bittner	Print Name	Print Name Susan Kyle	Print Name
Company Anchor QEA	Company PACE T: -0.2C	Company PACE	Company	Company Pace	Company
Date/Time 6/21/17 8:30	Date/Time 6/21/17 08:30	Date/Time 10/3/17 16:00	Date/Time 10/4/17 1405	Date/Time 10/4/17 1405	Date/Time

Date Printed: 6/20/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

Pace Analytical

Sample Condition Upon Receipt

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

Project #: WO#: 40157932
40157932

Client Name: GE

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

Tracking #: 4099470475; 4099470476

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): _____		

If checked, see attached form for additional comments ☐

Client Notification/ Resolution:
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): 40157932
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.

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 CS1-170620-01-YP-08 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 1:2 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 CS1-170620-01-YP-08 was designated as the duplicate for this SDG. The DUP required a 1:2 dilution to bring Aroclors within instrument calibration range. The RPD for the detected Aroclors was greater than 40%. Aroclors 1254 and 1260 met the QAPP specified precision criteria and were reported with the “2q” data qualifier on the final report to note the occurrence. Aroclor 1248 exceeded the QAPP specified precision criteria and was reported with the “R1” data qualifier on the final report. A batch duplicate was also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions: None required for this SDG.

H. Reanalysis: MS 1674425 and DUP 1674426 were initially analyzed straight based on screener data. Upon analysis, the MS and DUP were found to require reanalysis at a dilution to bring individual Aroclor peaks within instrument calibration range. The MS and DUP 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.: 40157932 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1674422	1674422BLANK	89	77
1674423	1674423LCS	97	84
1674425	1674425MS	98	93
1674426	1674426DUP	102	98
40157932001	CS1-170620-01-YP-10	89	84
40157932002	CS1-170620-01-YP-09	90	88
40157932003	CS1-170620-01-YP-08	90	91
40157932004	CS1-170620-01-YP-07	95	95
40157932005	CS1-170620-01-YP-06	94	89
40157932006	CS1-170620-01-YP-05	96	95
40157932007	AT1-170620-01-YP-10	99	94
40157932008	AT1-170620-01-YP-09	96	92
40157932009	AT1-170620-01-YP-08	92	89
40157932010	AT1-170620-01-YP-07	100	95
40157932011	AT1-170620-01-YP-06	103	102

	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

Lab Sample ID: 1674423LCS

Date Extracted: 04/17/2018

Date Analyzed (1): 04/18/2018

Instrument: 40GCSJ

LCS Lot No: 192096

Lab File ID: 041818.B\041818010.D

SDG No.: 40157932

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	247	99	70-130

Spike Recovery: 0 out of 1 outside limits.

05/16/2018 3:36

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/17/2018

Instrument: 40GCSJ

Parent Sample ID: CS1-170620-01-YP-08

Matrix Spike - Sample No: 1674425MS

Date Analyzed (1): 04/19/2018

Lab File ID: 041918.B\041918006.D

SDG No.: 40157932

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<11.4	328	131	70-130

Spike Recovery: 1 out of 1 outside limits.

05/16/2018 3:36

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/17/2018

Instrument 40GCSJ

Lab Sample ID: 40157830016

Duplicate Sample No: 40157830016DUP

Date Analyzed: 04/18/2018

Lab File ID: 041818.B\041818013.D

SDG No.: 40157932

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<34.2	<34.2		0-40
PCB-1221 (Aroclor 1221)	<34.2	<34.2		0-40
PCB-1232 (Aroclor 1232)	<34.2	<34.2		0-40
PCB-1242 (Aroclor 1242)	<34.2	<34.2		0-40
PCB-1248 (Aroclor 1248)	764	797	4	0-40
PCB-1254 (Aroclor 1254)	579	607	5	0-40
PCB-1260 (Aroclor 1260)	113J	120J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/17/2018

Instrument 40GCSJ

Lab Sample ID: CS1-170620-01-YP-08

Duplicate Sample No: 40157932003DUP

Date Analyzed: 04/19/2018

Lab File ID: 041918.B\041918007.D

SDG No.: 40157932

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<22.7		0-40
PCB-1221 (Aroclor 1221)	<11.4	<22.7		0-40
PCB-1232 (Aroclor 1232)	<11.4	<22.7		0-40
PCB-1242 (Aroclor 1242)	<11.4	<22.7		0-40
PCB-1248 (Aroclor 1248)	193	328	52	0-40
PCB-1254 (Aroclor 1254)	123	212	53	0-40
PCB-1260 (Aroclor 1260)	59.4	108	58	0-40

RPD: 3 out of 3 outside limits.

05/16/2018 3:37

SAMPLE NO.

1674422BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157932 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1674422

Lab File ID: 041818.B\041818009.D Date Analyzed: 04/18/2018 Time:14:33

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1674423LCS	1674423	041818.B\041818010.D	04/18/2018 14:49
1674424DUP	1674424	041818.B\041818013.D	04/18/2018 15:36
CS1-170620-01-YP-10	40157932001	041818.B\041818018.D	04/18/2018 16:55
CS1-170620-01-YP-09	40157932002	041818.B\041818019.D	04/18/2018 17:11
CS1-170620-01-YP-08	40157932003	041818.B\041818020.D	04/18/2018 17:27
CS1-170620-01-YP-07	40157932004	041818.B\041818023.D	04/18/2018 18:15
CS1-170620-01-YP-06	40157932005	041818.B\041818024.D	04/18/2018 18:30
CS1-170620-01-YP-05	40157932006	041818.B\041818025.D	04/18/2018 18:46
AT1-170620-01-YP-10	40157932007	041818.B\041818026.D	04/18/2018 19:02
AT1-170620-01-YP-09	40157932008	041818.B\041818027.D	04/18/2018 19:18
AT1-170620-01-YP-08	40157932009	041818.B\041818030.D	04/18/2018 20:06
AT1-170620-01-YP-07	40157932010	041818.B\041818031.D	04/18/2018 20:21
AT1-170620-01-YP-06	40157932011	041818.B\041818032.D	04/18/2018 20:37
1674425MS	1674425	041918.B\041918006.D	04/19/2018 14:40
1674426DUP	1674426	041918.B\041918007.D	04/19/2018 14:55

SAMPLE NO.

CS1-170620-01-YP-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157932

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 40157932001

Date Analyzed: 04/18/2018 16:55

Lab File ID: 041818.B\041818018.D

Initial wt/vol: 9.9866 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)	112	
11097-69-1	PCB-1254 (Aroclor 1254)	113	
11096-82-5	PCB-1260 (Aroclor 1260)	53.6	
1336-36-3	PCB, Total	279	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818018.D
Lab Smp Id: 40157932001 Client Smp ID: CS1-170620-01-YP-10
Inj Date : 18-APR-2018 16:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932001,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.987	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.024	10189	8170	0.802	0.01		
1.074	13147	9613	0.731	0.02		
1.104	20456	10861	0.531	0.03		
1.181	14268	13054	0.915	0.02		
1.426	11250	9816	0.873	0.02		
1.538	9881	7569	0.766	0.01		
2.012	12967	9391	0.724	0.02		
2.201	41678	24312	0.583	0.07		
2.292	21882	14757	0.674	0.03		
2.410	37338	28509	0.764	0.06		
2.485	10412173	9847865	0.946	19.20	$ 2 Tetrachloro-m-xylene	
2.786	20466	19537	0.955	0.03		
2.854	26449	17883	0.676	0.04		
3.022	25034	24614	0.983	0.04		
3.054	38237	31363	0.820	0.06		
3.317	66971	63346	0.946	0.11		
3.344	80452	72680	0.903	0.14		
3.434	65872	56016	0.850	0.11		
3.519	103968	95663	0.920	0.18		
3.731	113423	79344	0.700	0.20		
3.815	161655	197675	1.223	0.28		
3.825	245594	222398	0.906	0.43		
3.938	82801	62455	0.754	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	81512	76821	0.942	0.14	
4.058	58103	44870	0.772	0.10	
4.138	19039	15366	0.807	0.03	
4.214	800209	725610	0.907	1.42	
4.261	1039652	971058	0.934	1.85	6 Aroclor 1248
4.292	1073739	919085	0.856	1.91	
4.345	21098	15117	0.717	0.03	
4.417	353879	329207	0.930	0.63	
4.452	308384	270413	0.877	0.55	
4.545	709812	654620	0.922	1.26	6 Aroclor 1248
4.589	75344	66823	0.887	0.13	
4.616	115973	99336	0.857	0.20	
4.682	87685	75576	0.862	0.15	
4.736	121682	102902	0.846	0.21	
4.768	165878	153840	0.927	0.29	
4.813	378953	353178	0.932	0.67	6 Aroclor 1248
4.848	290770	270705	0.931	0.51	
4.893	1320163	804794	0.610	2.35	6 Aroclor 1248
4.956	457160	401774	0.879	0.81	
5.036	193784	178350	0.920	0.34	6 Aroclor 1248
5.055	24181	32279	1.335	0.04	
5.100	907787	795233	0.876	1.61	
5.161	1353724	1165688	0.861	2.41	7 Aroclor 1254
5.211	1093748	966747	0.884	1.95	
5.283	155380	152357	0.981	0.27	
5.310	320474	267877	0.836	0.57	
5.362	385086	335846	0.872	0.68	
5.406	679061	629457	0.927	1.21	7 Aroclor 1254
5.450	1418908	1291228	0.910	2.53	
5.477	164467	173499	1.055	0.29	
5.509	1589518	1367317	0.860	2.83	7 Aroclor 1254
5.576	128493	114245	0.889	0.22	
5.602	155189	136261	0.878	0.27	
5.675	649783	611534	0.941	1.15	
5.709	378126	302148	0.799	0.67	
5.742	385514	301917	0.783	0.68	
5.787	2008330	1486630	0.740	3.58	
5.884	254161	182994	0.720	0.45	
5.931	194714	171193	0.879	0.34	
5.993	632128	590255	0.934	1.12	
6.026	677259	581095	0.858	1.20	7 Aroclor 1254
6.055	2000284	1722884	0.861	3.56	
6.168	507857	285436	0.562	0.90	
6.226	128902	151990	1.179	0.22	
6.242	280117	205987	0.735	0.49	
6.299	2396723	1939038	0.809	4.27	7 Aroclor 1254
6.331	240183	222456	0.926	0.42	
6.372	96817	79207	0.818	0.17	
6.431	324198	262880	0.811	0.57	
6.484	25183	34176	1.357	0.04	
6.509	1003270	929506	0.926	1.78	
6.534	435775	400548	0.919	0.77	
6.559	334082	289446	0.866	0.59	
6.604	51588	46736	0.906	0.09	
6.660	69109	64909	0.939	0.12	
6.716	316474	274377	0.867	0.56	
6.756	423786	356153	0.840	0.75	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.801	299522	273442	0.913	0.53	
6.838	187275	147031	0.785	0.33	
6.911	41636	45439	1.091	0.07	
6.942	346717	314265	0.906	0.61	
7.003	976924	908815	0.930	1.74	8 Aroclor 1260
7.034	102666	72288	0.704	0.18	
7.121	30753	25391	0.826	0.05	
7.250	445045	385124	0.865	0.79	8 Aroclor 1260
7.279	137577	111230	0.808	0.24	
7.339	16773	13307	0.793	0.02	
7.388	422019	363174	0.861	0.75	
7.441	427071	375058	0.878	0.76	8 Aroclor 1260
7.492	23539	17481	0.743	0.04	
7.549	11638	12212	1.049	0.02	
7.581	10371	9901	0.955	0.01	
7.690	88858	87206	0.981	0.15	
7.728	171517	152605	0.890	0.30	
7.763	21012	20355	0.969	0.03	
7.811	160911	107687	0.669	0.28	
7.859	18986	16491	0.869	0.03	
7.900	241089	215768	0.895	0.43	8 Aroclor 1260
7.959	39638	24496	0.618	0.07	
8.051	27090	20386	0.753	0.04	
8.273	352890	308928	0.875	0.62	
8.374	21405	15930	0.744	0.03	
8.451	12918	9873	0.764	0.02	
8.570	9768920	8572841	0.878	17.42	$ 12 Decachlorobiphenyl
8.696	15797	14435	0.914	0.02	
8.725	44624	39413	0.883	0.07	
9.050	9568	7976	0.834	0.01	
9.168	76403	65067	0.852	0.13	
9.959	10252	7553	0.737	0.01	
	56060751	49139033		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818018.D
Lab Smp Id: 40157932001 Client Smp ID: CS1-170620-01-YP-10
Inj Date : 18-APR-2018 16:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932001,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.987	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	10412173	0.08445	42			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1039652	0.44373	220	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	709811	0.17103	86	0.00- 20.00	68.27	CO
4.812	4.812	0.000	378953	0.18667	93	0.00- 20.00	36.45	CO
4.893	4.879	0.014	1320163	0.26207	130	0.00- 20.00	126.98	CO
5.036	5.038	-0.002	193783	0.05400	27	0.00- 20.00	18.64	CO
Average of Peak Concentrations =					110			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1353723	0.25858	130	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	679060	0.15788	79	0.00- 20.00	50.16	BA
5.508	5.510	-0.002	1589517	0.20467	100	0.00- 20.00	117.42	BA
6.026	6.027	-0.001	677258	0.13908	70	0.00- 20.00	50.03	BA
6.299	6.299	0.000	2396723	0.36832	180	0.00- 20.00	177.05	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	976924	0.09755	49	0.00- 20.00	40.76	BA
7.249	7.251	-0.002	445045	0.09311	47	0.00- 20.00	18.57	BA
7.441	7.443	-0.002	427070	0.14650	73	0.00- 20.00	17.82	BA
7.899	7.901	-0.002	241088	0.09136	46	0.00- 20.00	10.06	BA
Average of Peak Concentrations =					54			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9768920	0.08917	45			

QC Flag Legend

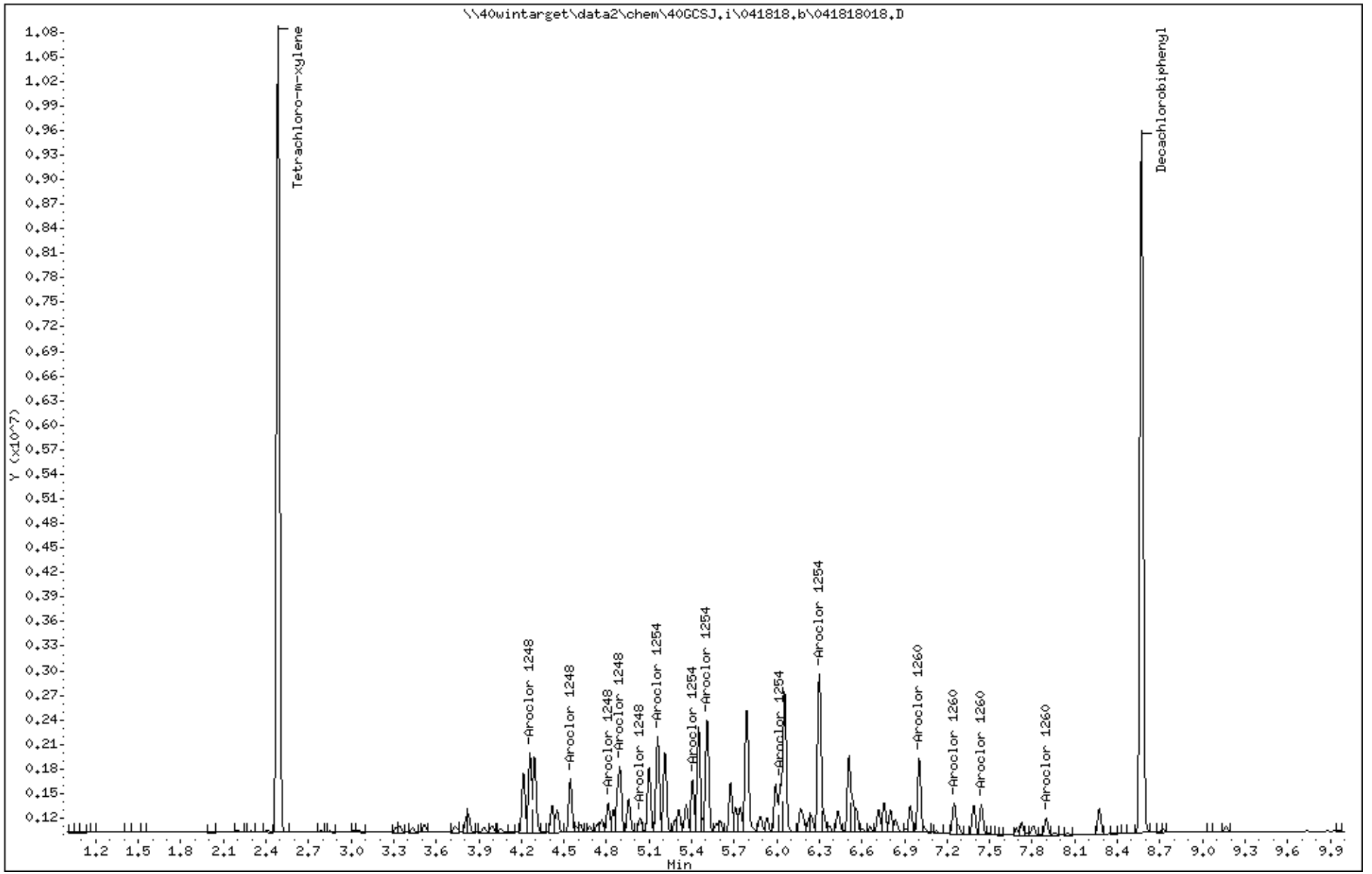
M - Compound response manually integrated.

Review Codes Legend

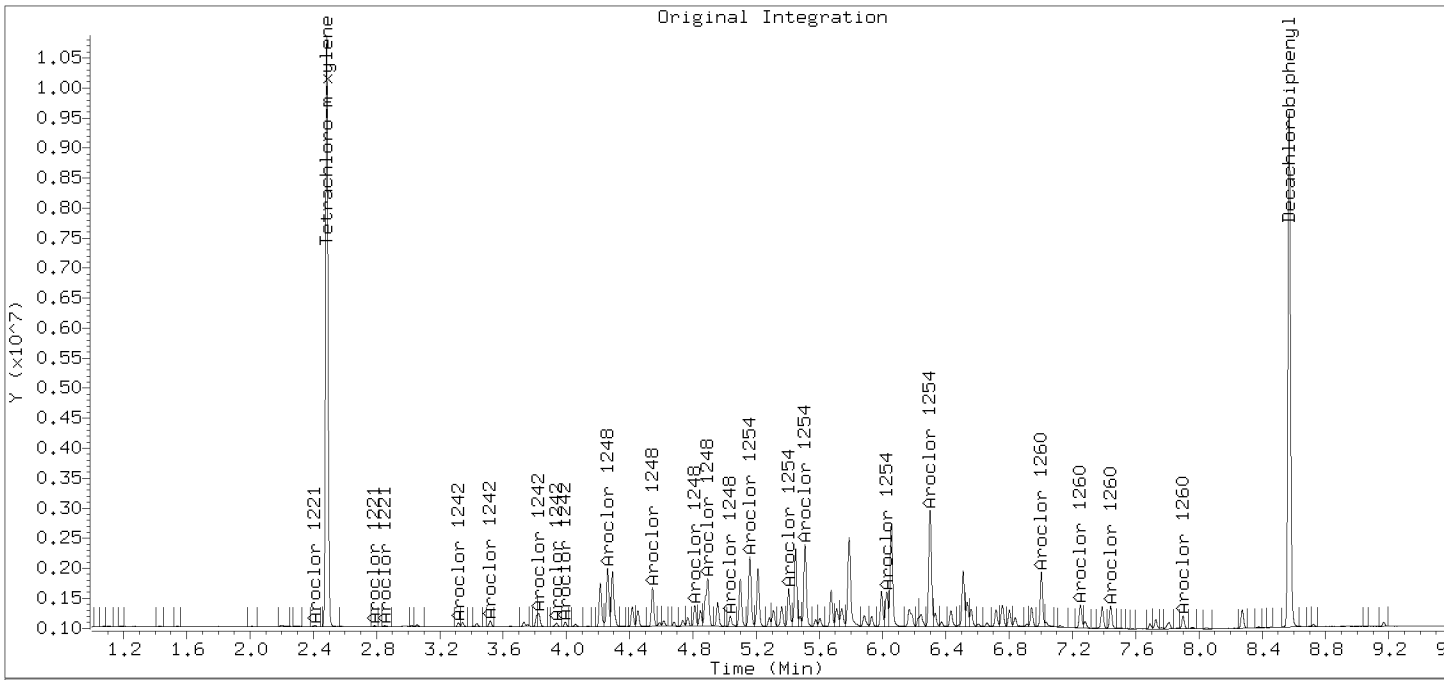
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

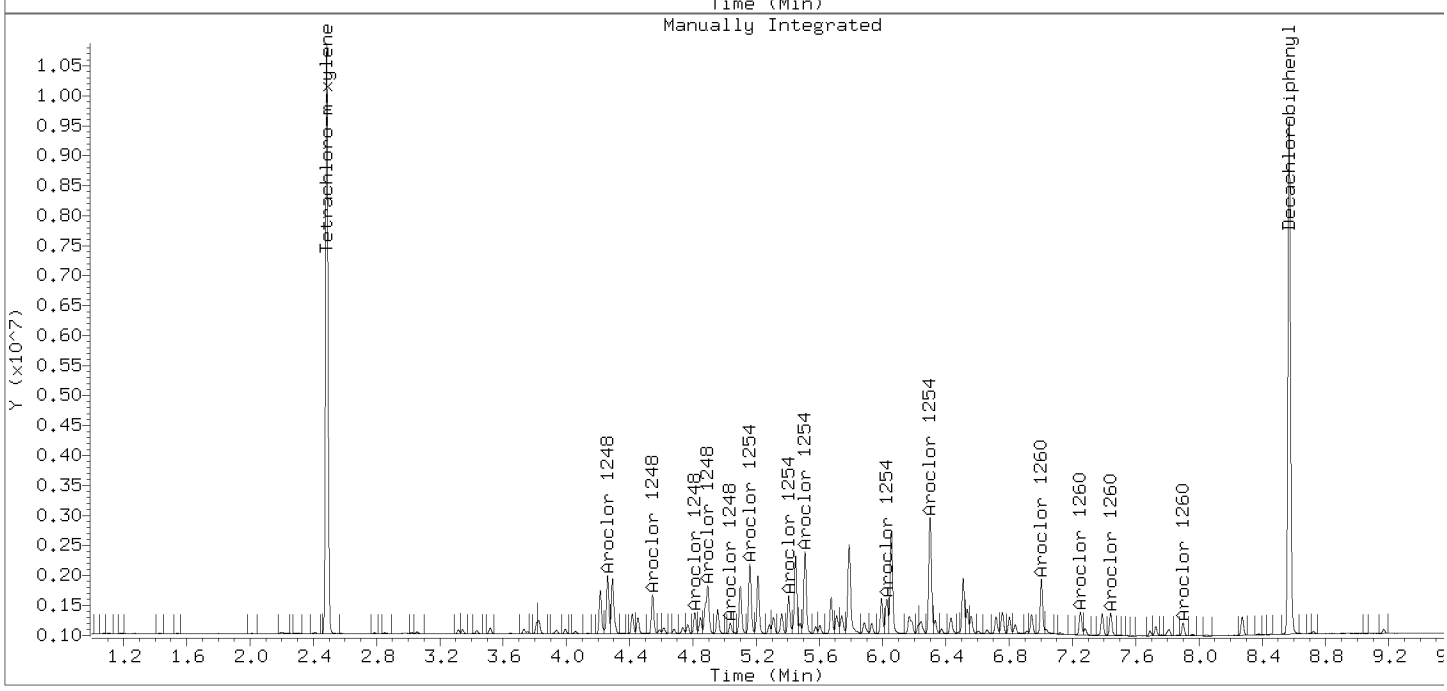
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818018.D
Date : 18-APR-2018 16:55
Client ID: CS1-170620-01-YP-10
Sample Info: 40157932001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 16:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66970	0	
Aroclor 1016	66970	0	
Aroclor 1016	66970	0	
Aroclor 1016	66970	0	
Aroclor 1016	66970	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	26448	0	
Aroclor 1232	26448	0	
Aroclor 1232	26448	0	
Aroclor 1232	26448	0	

Aroclor 1232	26448	0	
Aroclor 1242	66970	0	
Aroclor 1242	66970	0	
Aroclor 1242	66970	0	
Aroclor 1242	66970	0	
Aroclor 1242	66970	0	
Aroclor 1248	1031211	1039652	CO
Aroclor 1248	1031211	1039652	CO
Aroclor 1248	1031211	1039652	CO
Aroclor 1248	1031211	1039652	CO
Aroclor 1248	1031211	1039652	CO
Aroclor 1254	1339586	1353723	BA
Aroclor 1254	1339586	1353723	BA
Aroclor 1254	1339586	1353723	BA
Aroclor 1254	1339586	1353723	BA
Aroclor 1254	1339586	1353723	BA
Aroclor 1260	2388999	0	BA
Aroclor 1260	2388999	0	BA
Aroclor 1260	2388999	0	BA
Aroclor 1260	2388999	0	BA
Aroclor 1260	2388999	0	BA
Tetrachloro-m-xylene	10412173	10412173	
Decachlorobiphenyl	9768920	9768920	

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SAMPLE NO.

CS1-170620-01-YP-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157932002
Date Analyzed: 04/18/2018 17:11
Lab File ID: 041818.B\041818019.D
Initial wt/vol: 9.9983 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)	125	
11097-69-1	PCB-1254 (Aroclor 1254)	87.2	
11096-82-5	PCB-1260 (Aroclor 1260)	29.6	J
1336-36-3	PCB, Total	242	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818019.D
Lab Smp Id: 40157932002 Client Smp ID: CS1-170620-01-YP-09
Inj Date : 18-APR-2018 17:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932002,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.998	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.146	10235	8766	0.856	0.02		
1.181	16422	12725	0.775	0.03		
1.422	11237	7850	0.699	0.02		
1.541	10821	8534	0.789	0.02		
1.949	11072	8550	0.772	0.02		
2.198	45372	25626	0.565	0.08		
2.290	9750	6671	0.684	0.01		
2.409	71474	58541	0.819	0.14		
2.484	10896064	10231670	0.939	21.93	$ 2 Tetrachloro-m-xylene	
2.788	26147	23774	0.909	0.05		
2.851	35667	23600	0.662	0.07		
2.977	42614	17975	0.422	0.08		
3.020	46818	44222	0.945	0.09		
3.054	67793	61798	0.912	0.13		
3.316	92800	89794	0.968	0.18		
3.344	110936	100928	0.910	0.21		
3.433	103507	88274	0.853	0.20		
3.518	185124	169883	0.918	0.36		
3.645	19980	16285	0.815	0.03		
3.731	138339	135103	0.977	0.27		
3.755	53649	52757	0.983	0.10		
3.814	337625	373028	1.105	0.66		
3.824	407702	407017	0.998	0.80		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.938	112686	85787	0.761	0.22	
3.993	127277	117438	0.923	0.24	
4.056	78008	67773	0.869	0.15	
4.135	27473	17010	0.619	0.05	
4.215	1034604	945518	0.914	2.03	
4.261	1214242	1140142	0.939	2.38	6 Aroclor 1248
4.292	1150675	935868	0.813	2.25	
4.417	456277	431797	0.946	0.89	
4.452	365038	322929	0.885	0.71	
4.545	850917	783481	0.921	1.67	6 Aroclor 1248
4.587	67158	59758	0.890	0.13	
4.617	149639	119544	0.799	0.29	
4.681	82010	62554	0.763	0.16	
4.737	84334	67997	0.806	0.16	
4.767	164467	147210	0.895	0.32	
4.813	436160	406958	0.933	0.85	6 Aroclor 1248
4.847	381761	356837	0.935	0.74	
4.893	1241381	689223	0.555	2.43	6 Aroclor 1248
4.956	357378	300006	0.839	0.70	
5.036	221338	197760	0.893	0.43	6 Aroclor 1248
5.054	42032	50430	1.200	0.08	
5.100	658235	563684	0.856	1.29	
5.161	1130459	959322	0.849	2.21	7 Aroclor 1254
5.212	924941	785067	0.849	1.81	
5.283	122203	113096	0.925	0.23	
5.309	220822	181158	0.820	0.43	
5.361	284492	238461	0.838	0.55	
5.407	557352	501565	0.900	1.09	7 Aroclor 1254
5.450	1788051	1582487	0.885	3.51	
5.509	1275803	1109544	0.870	2.50	7 Aroclor 1254
5.576	85528	70098	0.820	0.16	
5.606	141654	97236	0.686	0.27	
5.674	357561	316173	0.884	0.70	
5.709	200816	145384	0.724	0.39	
5.740	277367	220472	0.795	0.54	
5.789	1544590	1131874	0.733	3.03	
5.885	180516	100022	0.554	0.35	
5.930	139297	107189	0.770	0.27	
5.993	430462	387093	0.899	0.84	
6.025	510747	430662	0.843	1.00	7 Aroclor 1254
6.055	1447937	1189263	0.821	2.84	
6.168	301424	176159	0.584	0.59	
6.242	311505	157988	0.507	0.61	
6.300	1675230	1338126	0.799	3.28	7 Aroclor 1254
6.332	182178	150113	0.824	0.35	
6.373	76702	54737	0.714	0.15	
6.431	208053	143871	0.692	0.40	
6.509	629946	545554	0.866	1.23	
6.535	326999	304748	0.932	0.64	
6.560	215665	181255	0.840	0.42	
6.608	59976	41038	0.684	0.11	
6.659	60169	35873	0.596	0.11	
6.718	203459	162386	0.798	0.39	
6.758	257481	202913	0.788	0.50	
6.802	209340	176861	0.845	0.41	
6.839	134382	88511	0.659	0.26	
6.911	30508	27805	0.911	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.941	221417	200102	0.904	0.43	
7.004	557777	498663	0.894	1.09	8 Aroclor 1260
7.032	45267	46601	1.029	0.08	
7.122	31446	18802	0.598	0.06	
7.250	278204	246723	0.887	0.54	8 Aroclor 1260
7.279	100672	69229	0.688	0.19	
7.340	29977	20090	0.670	0.05	
7.389	201841	191629	0.949	0.39	
7.442	217793	173391	0.796	0.42	8 Aroclor 1260
7.494	33124	15542	0.469	0.06	
7.550	14873	12660	0.851	0.02	
7.581	16863	14842	0.880	0.03	
7.621	32783	18983	0.579	0.06	
7.661	14851	16169	1.089	0.02	
7.692	45067	45560	1.011	0.08	
7.726	100410	85228	0.849	0.19	
7.761	20344	14778	0.726	0.03	
7.809	91553	59120	0.646	0.17	
7.900	127960	108024	0.844	0.25	8 Aroclor 1260
7.960	21751	13756	0.632	0.04	
8.048	32044	27924	0.871	0.06	
8.274	178058	160444	0.901	0.34	
8.375	14455	13447	0.930	0.02	
8.570	9853609	8590245	0.872	19.34	$ 12 Decachlorobiphenyl
8.725	32180	19488	0.606	0.06	
8.945	10909	7809	0.716	0.02	
9.168	40201	33302	0.828	0.07	
	50923282	44019730		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818019.D
Lab Smp Id: 40157932002 Client Smp ID: CS1-170620-01-YP-09
Inj Date : 18-APR-2018 17:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932002,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.998	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	10896063	0.08837	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	1214242	0.51825	260	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	850916	0.20502	100	0.00- 20.00	70.08	CO
4.813	4.812	0.001	436160	0.21485	110	0.00- 20.00	35.92	CO
4.892	4.879	0.013	1241380	0.24643	120	0.00- 20.00	102.23	CO
5.035	5.038	-0.003	221338	0.06168	31	0.00- 20.00	18.23	CO
Average of Peak Concentrations =					120			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1130458	0.21593	110	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	557352	0.12958	65	0.00- 20.00	49.30	BA
5.509	5.510	-0.001	1275803	0.16428	82	0.00- 20.00	112.86	BA
6.025	6.027	-0.002	510747	0.10488	52	0.00- 20.00	45.18	BA
6.299	6.299	0.000	1675230	0.25745	130	0.00- 20.00	148.19	BA
Average of Peak Concentrations =					87			
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	557777	0.05570	28	0.00- 20.00	35.95	CO
7.250	7.251	-0.001	278203	0.05820	29	0.00- 20.00	16.61	CO
7.441	7.443	-0.002	217792	0.07471	37	0.00- 20.00	13.00	CO
7.899	7.901	-0.002	127960	0.04849	24	0.00- 20.00	7.64	CO
Average of Peak Concentrations =					30			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9853609	0.08994	45			

QC Flag Legend

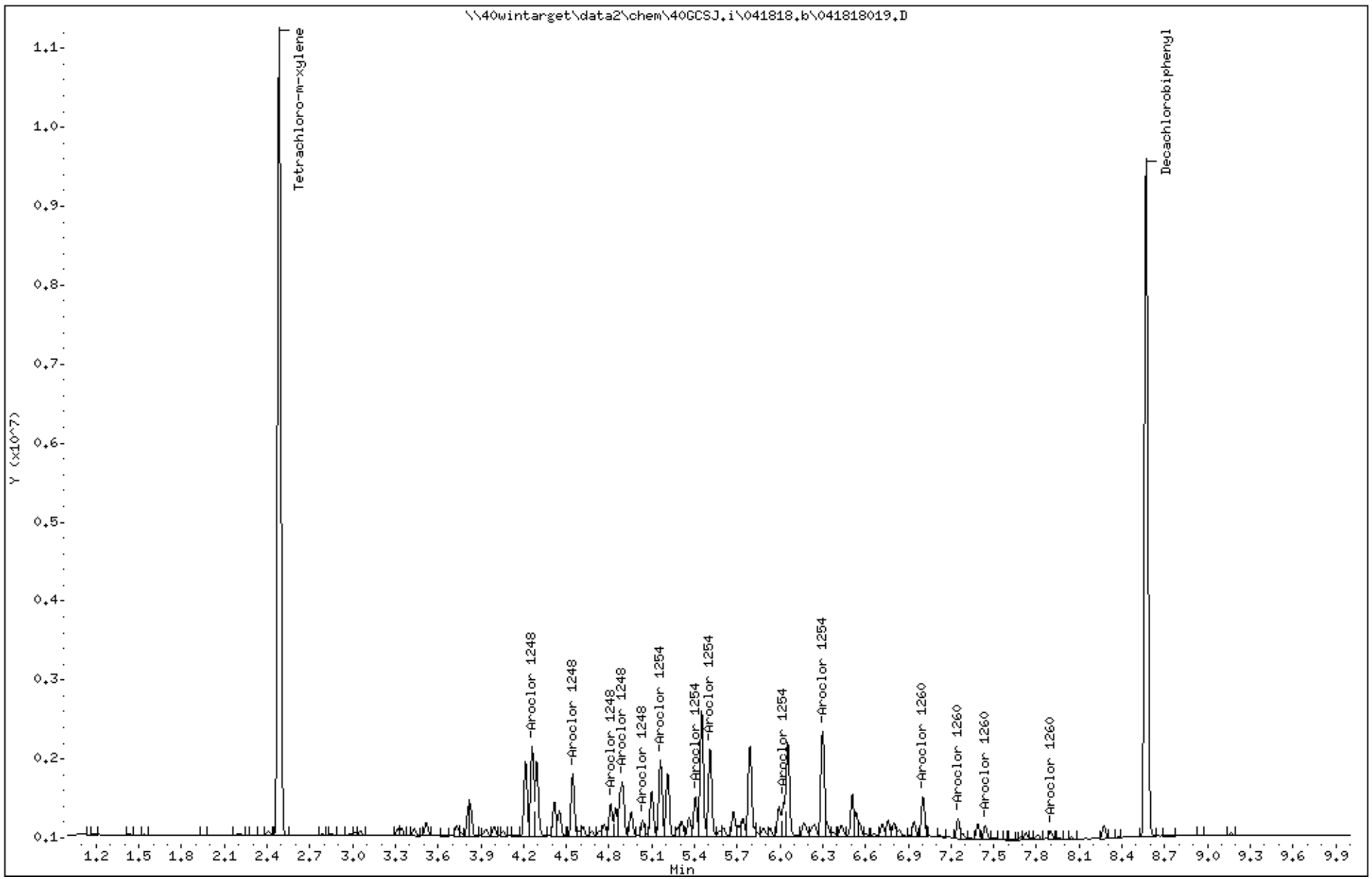
M - Compound response manually integrated.

Review Codes Legend

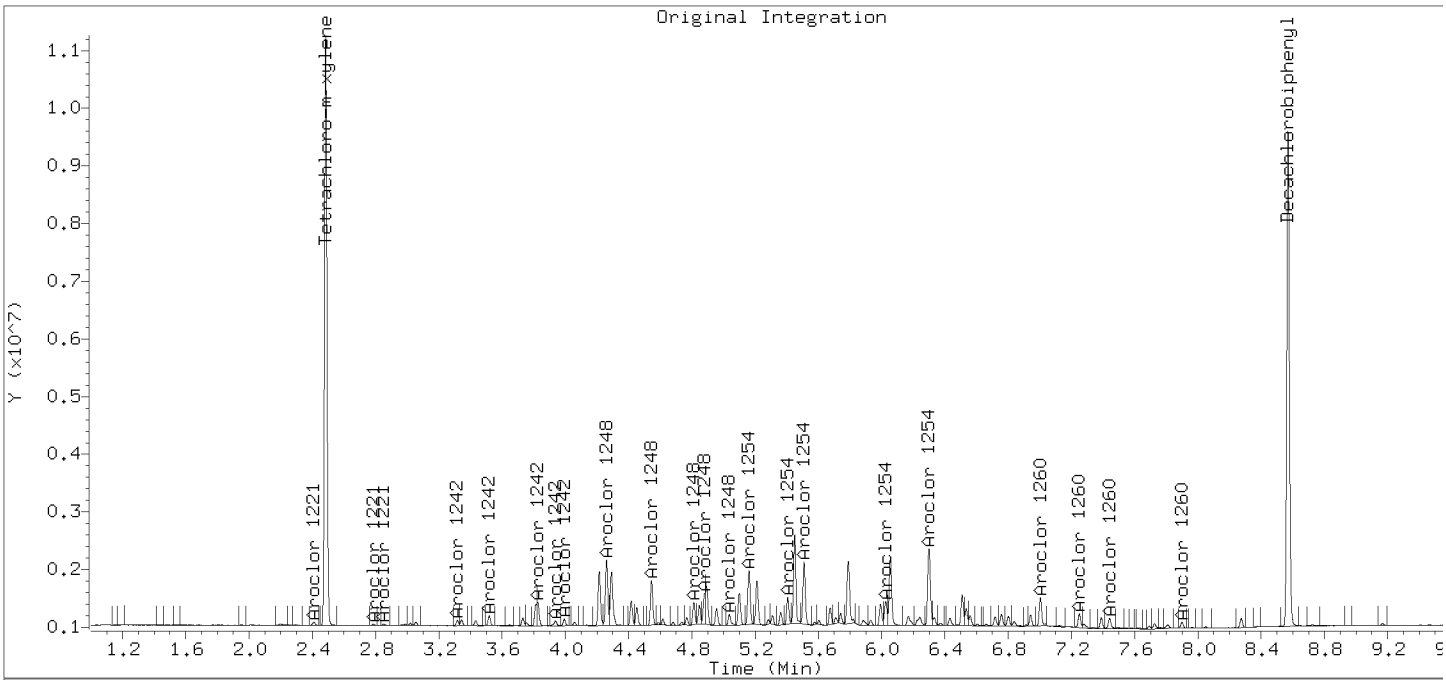
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

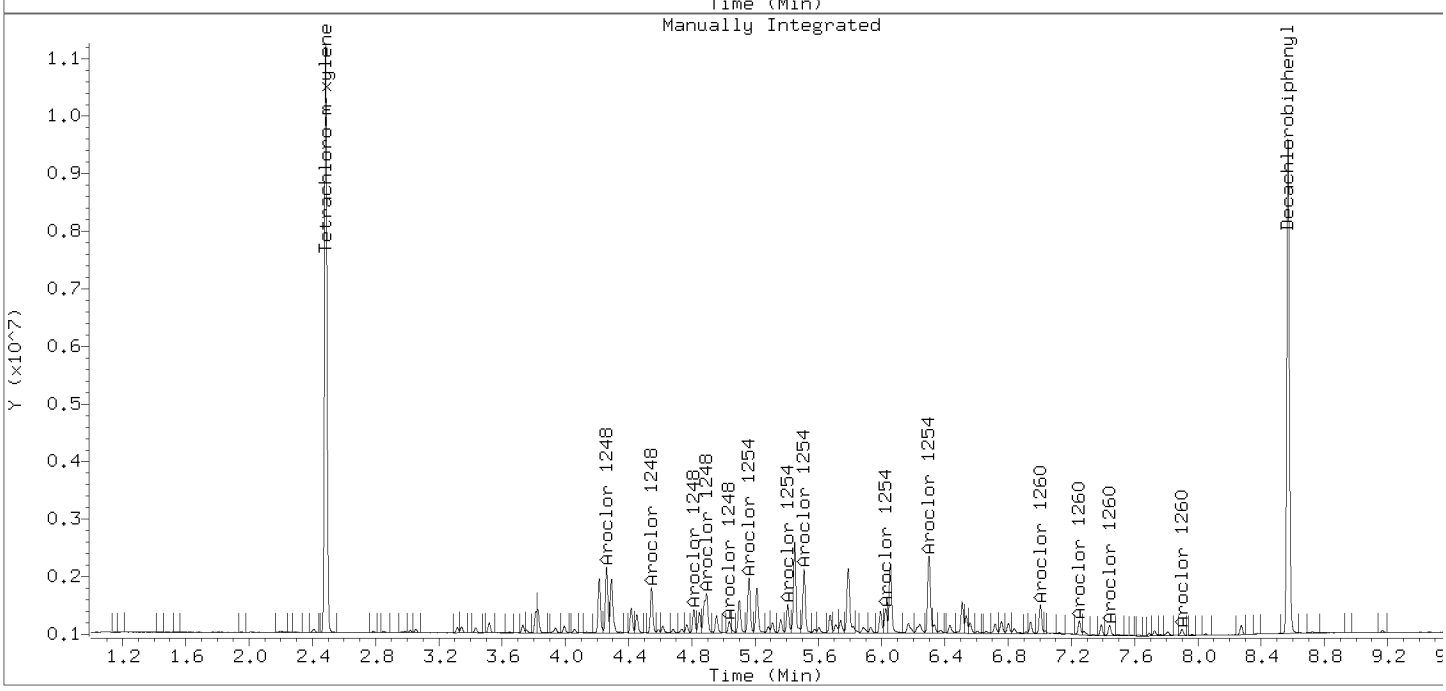
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818019.D
Date : 18-APR-2018 17:11
Client ID: CS1-170620-01-YP-09
Sample Info: 40157932002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 17:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	92800	0	
Aroclor 1016	92800	0	
Aroclor 1016	92800	0	
Aroclor 1016	92800	0	
Aroclor 1016	92800	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	35667	0	
Aroclor 1232	35667	0	
Aroclor 1232	35667	0	
Aroclor 1232	35667	0	

Aroclor 1232	35667	0	
Aroclor 1242	92800	0	
Aroclor 1242	92800	0	
Aroclor 1242	92800	0	
Aroclor 1242	92800	0	
Aroclor 1242	92800	0	
Aroclor 1248	1193620	1214242	CO
Aroclor 1248	1193620	1214242	CO
Aroclor 1248	1193620	1214242	CO
Aroclor 1248	1193620	1214242	CO
Aroclor 1248	1193620	1214242	CO
Aroclor 1254	1048909	1130458	BA
Aroclor 1254	1048909	1130458	BA
Aroclor 1254	1048909	1130458	BA
Aroclor 1254	1048909	1130458	BA
Aroclor 1254	1048909	1130458	BA
Aroclor 1260	1625210	0	CO
Aroclor 1260	1625210	0	CO
Aroclor 1260	1625210	0	CO
Aroclor 1260	1625210	0	CO
Aroclor 1260	1625210	0	CO
Tetrachloro-m-xylene	10896063	10896063	
Decachlorobiphenyl	9853609	9853609	

==========

SAMPLE NO.

CS1-170620-01-YP-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157932003
Date Analyzed: 04/18/2018 17:27
Lab File ID: 041818.B\041818020.D
Initial wt/vol: 10.0109 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)	193	
11097-69-1	PCB-1254 (Aroclor 1254)	123	
11096-82-5	PCB-1260 (Aroclor 1260)	59.4	
1336-36-3	PCB, Total	375	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818020.D
Lab Smp Id: 40157932003 Client Smp ID: CS1-170620-01-YP-08
Inj Date : 18-APR-2018 17:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932003,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	19752	13619	0.690	0.02		
1.429	10915	8912	0.817	0.01		
1.955	11071	8171	0.738	0.01		
2.195	10130	8644	0.853	0.01		
2.410	72808	59530	0.818	0.10		
2.484	11158303	10528745	0.944	17.28	$ 2 Tetrachloro-m-xylene	
2.789	33130	29927	0.903	0.04		
2.851	51133	40603	0.794	0.07		
2.974	59356	33598	0.566	0.08		
3.019	41195	42609	1.034	0.06		
3.054	57697	56047	0.971	0.08		
3.317	180200	179096	0.994	0.26		
3.343	316411	290922	0.919	0.47		
3.400	11395	11164	0.980	0.01		
3.433	175432	159503	0.909	0.26		
3.518	296450	266239	0.898	0.44		
3.644	25538	24882	0.974	0.03		
3.732	306466	303324	0.990	0.45		
3.755	135086	130189	0.964	0.20		
3.814	720887	813099	1.128	1.07		
3.825	811023	821955	1.013	1.21		
3.938	158163	110096	0.696	0.23		
3.992	208968	193308	0.925	0.31		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	132313	116445	0.880	0.19	
4.135	30320	25462	0.840	0.04	
4.214	1545734	1418608	0.918	2.31	
4.261	1965949	1798573	0.915	2.94	6 Aroclor 1248
4.292	2001323	1663434	0.831	2.99	
4.344	28353	23696	0.836	0.04	
4.417	685266	643968	0.940	1.02	
4.452	574167	536037	0.934	0.85	
4.544	1349596	1215963	0.901	2.01	6 Aroclor 1248
4.588	97247	92881	0.955	0.14	
4.616	243744	214407	0.880	0.36	
4.680	115283	97285	0.844	0.17	
4.737	148441	118356	0.797	0.22	
4.767	229422	218992	0.955	0.34	
4.812	614027	589257	0.960	0.91	6 Aroclor 1248
4.846	603348	588557	0.975	0.90	
4.893	1827234	1001225	0.548	2.73	6 Aroclor 1248
4.956	528084	475109	0.900	0.79	
5.036	371664	350722	0.944	0.55	6 Aroclor 1248
5.054	42250	59045	1.398	0.06	
5.100	1006771	848928	0.843	1.50	
5.161	1529757	1319032	0.862	2.28	7 Aroclor 1254
5.211	1305180	1154779	0.885	1.95	
5.284	179764	174537	0.971	0.26	
5.309	352467	298586	0.847	0.52	
5.362	430263	391268	0.909	0.64	
5.406	744504	669977	0.900	1.11	7 Aroclor 1254
5.450	1884356	1740337	0.924	2.81	
5.478	146992	156999	1.068	0.21	
5.509	1798634	1574084	0.875	2.69	7 Aroclor 1254
5.575	125876	115207	0.915	0.18	
5.603	194778	162590	0.835	0.29	
5.674	525823	486729	0.926	0.78	
5.709	323555	258286	0.798	0.48	
5.741	391005	301228	0.770	0.58	
5.788	1999982	1583464	0.792	2.99	
5.820	209263	164360	0.785	0.31	
5.883	245979	159397	0.648	0.36	
5.929	206979	165855	0.801	0.30	
5.992	642788	606298	0.943	0.96	
6.026	733803	652829	0.890	1.09	7 Aroclor 1254
6.055	2147542	1873846	0.873	3.21	
6.168	470566	267156	0.568	0.70	
6.226	112660	154664	1.373	0.16	
6.241	303628	214533	0.707	0.45	
6.299	2467188	1994422	0.808	3.69	7 Aroclor 1254
6.332	252760	220632	0.873	0.37	
6.373	103774	79239	0.764	0.15	
6.430	310639	252281	0.812	0.46	
6.480	24625	36411	1.479	0.03	
6.509	984424	904212	0.919	1.47	
6.534	467759	427525	0.914	0.69	
6.559	350702	317365	0.905	0.52	
6.603	65854	57707	0.876	0.09	
6.658	67612	57400	0.849	0.10	
6.716	309280	265451	0.858	0.46	
6.756	389912	321305	0.824	0.58	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.801	328860	281394	0.856	0.49	
6.837	187945	146680	0.780	0.28	
6.911	44138	46058	1.043	0.06	
6.941	373658	337797	0.904	0.55	
7.004	1110004	1037313	0.935	1.66	8 Aroclor 1260
7.033	92013	78682	0.855	0.13	
7.120	31221	23292	0.746	0.04	
7.251	470447	405502	0.862	0.70	8 Aroclor 1260
7.280	155936	122151	0.783	0.23	
7.336	21755	17290	0.795	0.03	
7.388	434942	370837	0.853	0.65	
7.442	454689	389502	0.857	0.68	8 Aroclor 1260
7.494	36182	20264	0.560	0.05	
7.548	25133	21951	0.873	0.03	
7.582	11913	12608	1.058	0.01	
7.618	18970	13087	0.690	0.02	
7.690	97477	91530	0.939	0.14	
7.726	163003	141544	0.868	0.24	
7.761	28303	23705	0.838	0.04	
7.811	145814	99333	0.681	0.21	
7.862	18740	16655	0.889	0.02	
7.900	292311	256256	0.877	0.43	8 Aroclor 1260
7.956	46972	27080	0.577	0.07	
8.049	53832	46343	0.861	0.08	
8.274	363640	312933	0.861	0.54	
8.380	20654	13447	0.651	0.03	
8.448	11642	10994	0.944	0.01	
8.571	9818830	8373787	0.853	14.69	$ 12 Decachlorobiphenyl
8.726	46831	37825	0.808	0.07	
8.944	9316	9457	1.015	0.01	
9.057	16020	12167	0.760	0.02	
9.168	62766	55132	0.878	0.09	
9.734	12315	9654	0.784	0.01	
9.953	10056	6957	0.692	0.01	
	66829051	58680330		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818020.D
Lab Smp Id: 40157932003 Client Smp ID: CS1-170620-01-YP-08
Inj Date : 18-APR-2018 17:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932003,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	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	11158302	0.09050	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	1965949	0.83908	420	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1349595	0.32518	160	0.00- 20.00	68.65	CO
4.812	4.812	0.000	614027	0.30246	150	0.00- 20.00	31.23	CO
4.893	4.879	0.014	1827234	0.36273	180	0.00- 20.00	92.94	CO
5.036	5.038	-0.002	371664	0.10357	52	0.00- 20.00	18.91	CO
Average of Peak Concentrations =					190			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1529757	0.29220	140	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	744503	0.17310	86	0.00- 20.00	48.67	BA
5.509	5.510	-0.001	1798633	0.23160	120	0.00- 20.00	117.58	BA
6.025	6.027	-0.002	733803	0.15069	75	0.00- 20.00	47.97	BA
6.299	6.299	0.000	2467188	0.37915	190	0.00- 20.00	161.28	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1110004	0.11084	55	0.00- 20.00	44.99	BA
7.250	7.251	-0.001	470446	0.09842	49	0.00- 20.00	19.07	BA
7.442	7.443	-0.001	454688	0.15598	78	0.00- 20.00	18.43	BA
7.900	7.901	-0.001	292311	0.11078	55	0.00- 20.00	11.85	BA
Average of Peak Concentrations =					59			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9818829	0.08962	45			

QC Flag Legend

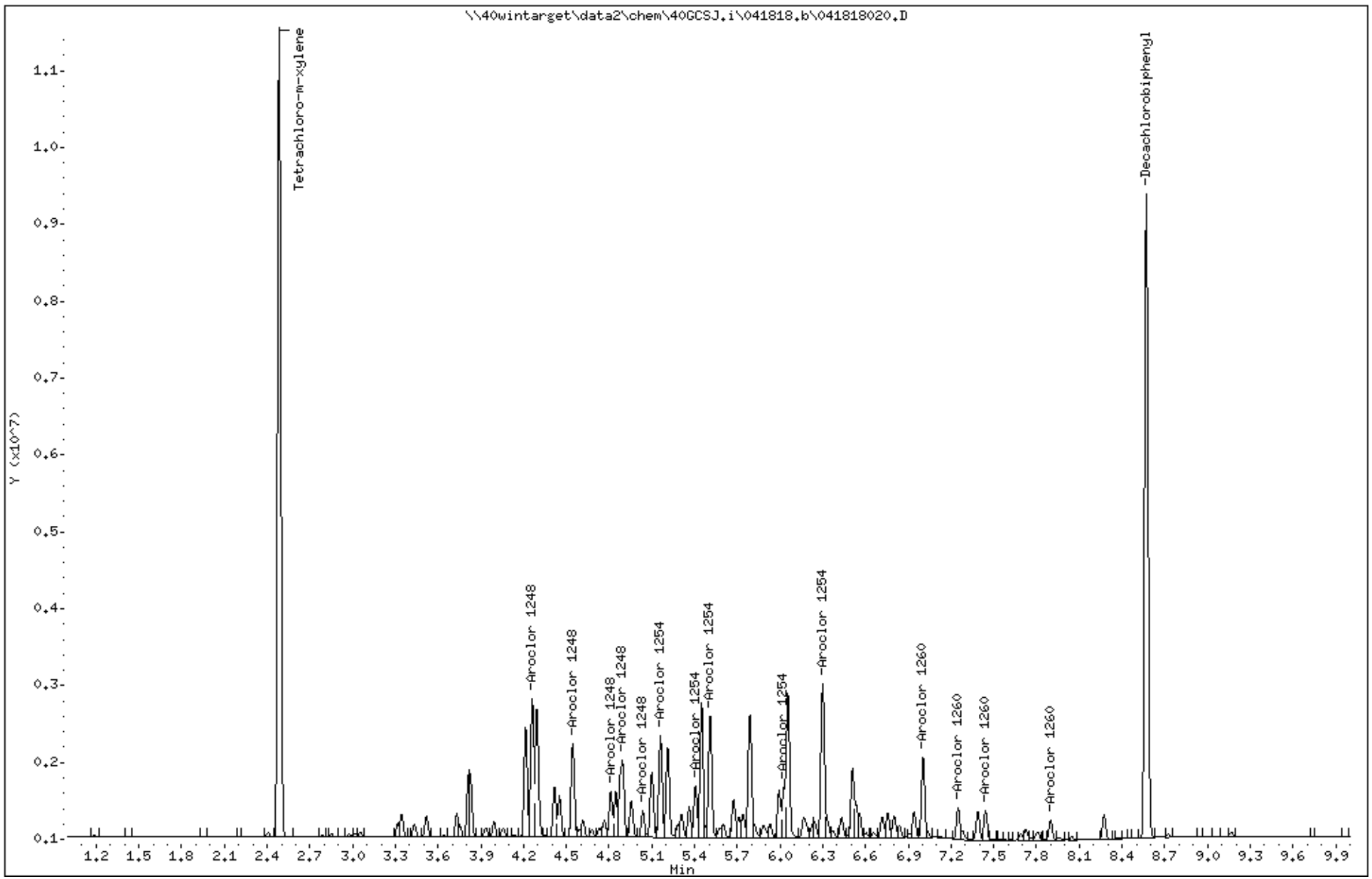
M - Compound response manually integrated.

Review Codes Legend

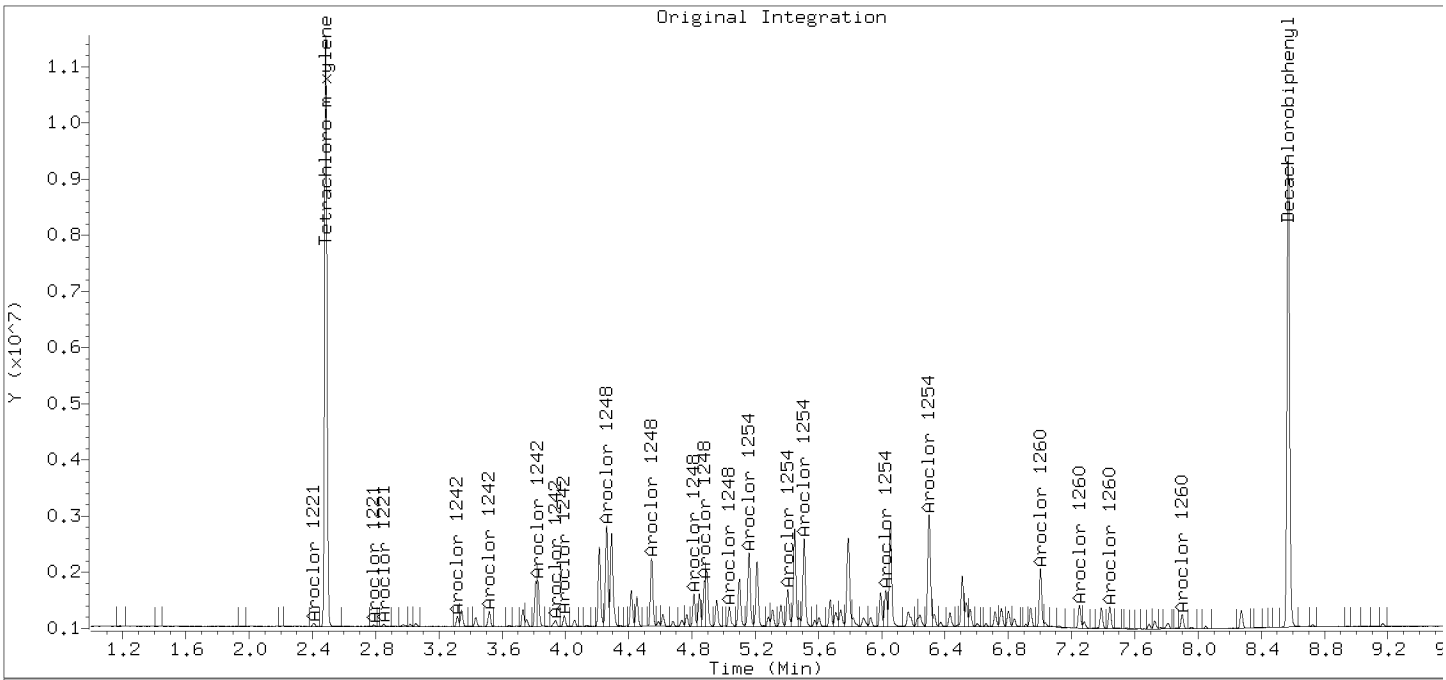
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

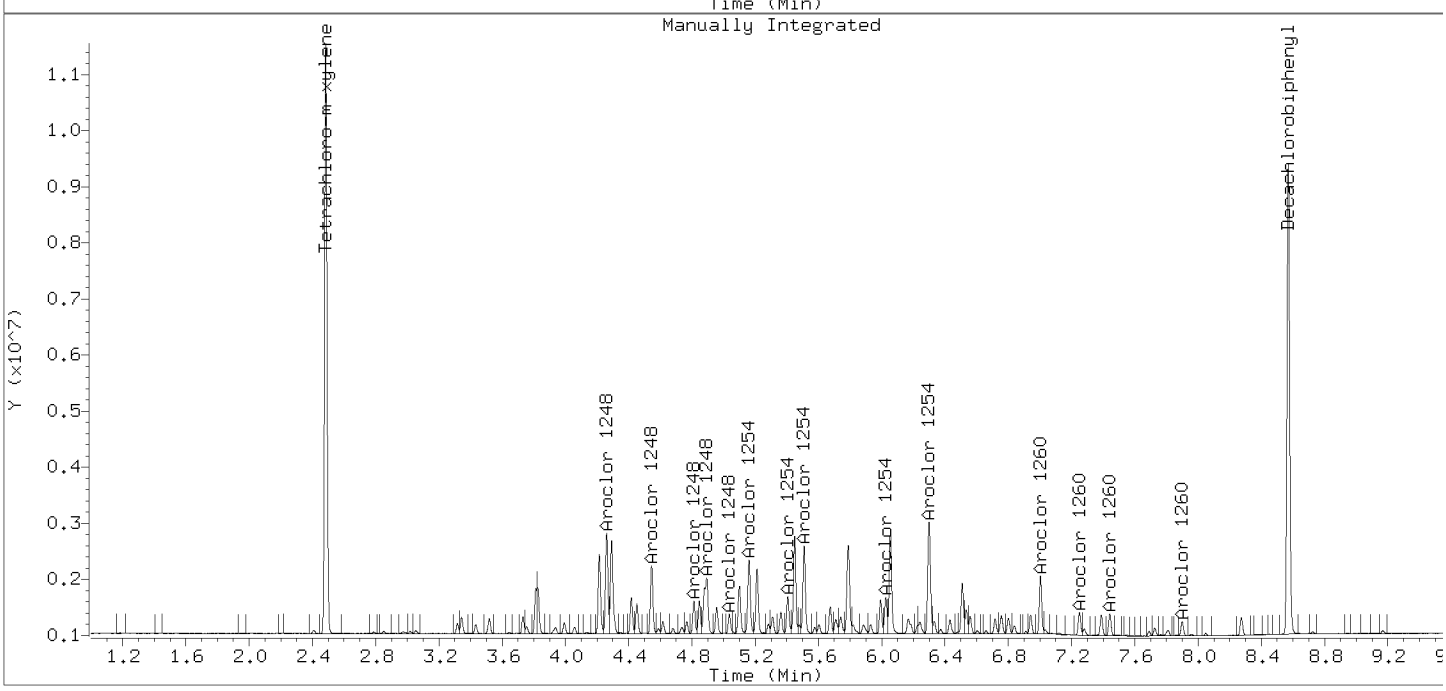
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818020.D
Date : 18-APR-2018 17:27
Client ID: CS1-170620-01-YP-08
Sample Info: 40157932003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 17:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	180199	0	
Aroclor 1016	180199	0	
Aroclor 1016	180199	0	
Aroclor 1016	180199	0	
Aroclor 1016	180199	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	51132	0	
Aroclor 1232	51132	0	
Aroclor 1232	51132	0	
Aroclor 1232	51132	0	

Aroclor 1232	51132	0	
Aroclor 1242	180199	0	
Aroclor 1242	180199	0	
Aroclor 1242	180199	0	
Aroclor 1242	180199	0	
Aroclor 1242	180199	0	
Aroclor 1248	1956656	1965949	CO
Aroclor 1248	1956656	1965949	CO
Aroclor 1248	1956656	1965949	CO
Aroclor 1248	1956656	1965949	CO
Aroclor 1248	1956656	1965949	CO
Aroclor 1254	1506871	1529757	BA
Aroclor 1254	1506871	1529757	BA
Aroclor 1254	1506871	1529757	BA
Aroclor 1254	1506871	1529757	BA
Aroclor 1254	1506871	1529757	BA
Aroclor 1260	2441871	0	BA
Aroclor 1260	2441871	0	BA
Aroclor 1260	2441871	0	BA
Aroclor 1260	2441871	0	BA
Aroclor 1260	2441871	0	BA
Tetrachloro-m-xylene	11158302	11158302	
Decachlorobiphenyl	9818829	9818829	

==========

SAMPLE NO.

CS1-170620-01-YP-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157932004
Date Analyzed: 04/18/2018 18:15
Lab File ID: 041818.B\041818023.D
Initial wt/vol: 10.0083 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)	91.7	
11097-69-1	PCB-1254 (Aroclor 1254)	66.1	
11096-82-5	PCB-1260 (Aroclor 1260)	29.1	J
1336-36-3	PCB, Total	187	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818023.D
Lab Smp Id: 40157932004 Client Smp ID: CS1-170620-01-YP-07
Inj Date : 18-APR-2018 18:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932004,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.428	12031	9557	0.794	0.02		
2.012	9639	7814	0.811	0.02		
2.198	46990	29125	0.620	0.10		
2.410	63623	48245	0.758	0.13		
2.485	11689694	10946270	0.936	26.13	$ 2 Tetrachloro-m-xylene	
2.787	22642	20519	0.906	0.04		
2.853	30046	19223	0.640	0.06		
2.976	15735	11420	0.726	0.03		
3.019	31331	33581	1.072	0.06		
3.054	53319	46300	0.868	0.11		
3.316	61684	61455	0.996	0.13		
3.344	69585	63741	0.916	0.15		
3.434	62625	61168	0.977	0.13		
3.518	137148	127815	0.932	0.30		
3.646	18051	14920	0.827	0.03		
3.732	148044	108454	0.733	0.32		
3.814	224970	267070	1.187	0.49		
3.826	294264	274868	0.934	0.64		
3.938	73903	52454	0.710	0.16		
3.993	98677	87371	0.885	0.21		
4.058	64139	51588	0.804	0.14		
4.136	18154	13428	0.740	0.03		
4.215	803233	740807	0.922	1.76		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	950198	897724	0.945	2.08	6 Aroclor 1248
4.292	879419	748343	0.851	1.92	
4.347	24314	15420	0.634	0.05	
4.417	352870	331070	0.938	0.77	
4.452	265348	239104	0.901	0.58	
4.545	581018	527916	0.909	1.27	6 Aroclor 1248
4.587	51756	47225	0.912	0.11	
4.617	103686	91986	0.887	0.22	
4.681	59179	49511	0.837	0.12	
4.738	69144	55378	0.801	0.15	
4.767	130811	116968	0.894	0.28	
4.812	307114	286331	0.932	0.67	6 Aroclor 1248
4.848	255043	242717	0.952	0.55	
4.893	888527	502194	0.565	1.94	6 Aroclor 1248
4.956	279172	235207	0.843	0.61	
5.036	161196	145178	0.901	0.35	6 Aroclor 1248
5.058	25242	30947	1.226	0.05	
5.099	503154	437200	0.869	1.10	
5.161	840372	731491	0.870	1.84	7 Aroclor 1254
5.212	690556	600033	0.869	1.51	
5.281	95294	86466	0.907	0.20	
5.309	176430	148054	0.839	0.38	
5.363	216723	182553	0.842	0.47	
5.406	405497	355050	0.876	0.88	7 Aroclor 1254
5.450	1304610	1131419	0.867	2.85	
5.509	929620	829928	0.893	2.03	7 Aroclor 1254
5.576	67776	60550	0.893	0.14	
5.603	94551	71255	0.754	0.20	
5.674	301194	266907	0.886	0.66	
5.709	146988	117276	0.798	0.32	
5.741	225099	167799	0.745	0.49	
5.787	1098065	884398	0.805	2.40	
5.819	136958	89992	0.657	0.30	
5.884	137169	81345	0.593	0.30	
5.930	114413	86645	0.757	0.25	
5.993	337482	306187	0.907	0.73	
6.026	380720	328232	0.862	0.83	7 Aroclor 1254
6.055	1143676	973375	0.851	2.50	
6.168	237991	145519	0.611	0.52	
6.233	85577	86792	1.014	0.18	
6.242	154128	121400	0.788	0.33	
6.300	1356335	1087108	0.802	2.97	7 Aroclor 1254
6.333	139920	118691	0.848	0.30	
6.371	67060	42344	0.631	0.14	
6.432	171102	120122	0.702	0.37	
6.509	575107	526472	0.915	1.26	
6.534	246424	239414	0.972	0.54	
6.559	186066	157221	0.845	0.40	
6.604	40423	30266	0.749	0.08	
6.658	47447	32478	0.685	0.10	
6.717	172928	137898	0.797	0.37	
6.758	209639	171447	0.818	0.45	
6.801	171345	148359	0.866	0.37	
6.838	108744	79468	0.731	0.23	
6.910	26077	25074	0.962	0.05	
6.941	207677	181259	0.873	0.45	
7.003	511298	471581	0.922	1.12	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.031	37092	44242	1.193	0.08	
7.071	14437	9509	0.659	0.03	
7.121	39956	21534	0.539	0.08	
7.249	263970	223203	0.846	0.57	8 Aroclor 1260
7.280	94028	64846	0.690	0.20	
7.336	27803	18977	0.683	0.06	
7.389	220510	196379	0.891	0.48	
7.440	225269	185789	0.825	0.49	8 Aroclor 1260
7.578	13150	12955	0.985	0.02	
7.636	26297	13313	0.506	0.05	
7.691	53808	48871	0.908	0.11	
7.726	105936	92145	0.870	0.23	
7.810	98543	59707	0.606	0.21	
7.900	130405	106680	0.818	0.28	8 Aroclor 1260
7.955	21077	13883	0.659	0.04	
8.048	22056	16847	0.764	0.04	
8.274	204368	180878	0.885	0.44	
8.379	17308	13090	0.756	0.03	
8.570	10437180	9135520	0.875	22.87	$ 12 Decachlorobiphenyl
8.726	20233	18319	0.905	0.04	
8.935	11881	8896	0.749	0.02	
9.051	11025	8979	0.814	0.02	
9.168	41413	36703	0.886	0.09	
	45632945	40050745		100.000	

Total unknown % area = 34

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818023.D
Lab Smp Id: 40157932004 Client Smp ID: CS1-170620-01-YP-07
Inj Date : 18-APR-2018 18:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932004,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	10.008	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	11689694	0.09481	47			
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	950198	0.40555	200	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	581018	0.13999	70	0.00- 20.00	61.15	CO
4.812	4.812	0.000	307114	0.15128	76	0.00- 20.00	32.32	CO
4.893	4.879	0.014	888527	0.17638	88	0.00- 20.00	93.51	CO
5.035	5.038	-0.003	161195	0.04492	22	0.00- 20.00	16.96	CO
Average of Peak Concentrations =					92			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	840371	0.16052	80	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	405496	0.09428	47	0.00- 20.00	48.25	BA
5.508	5.510	-0.002	929620	0.11970	60	0.00- 20.00	110.62	BA
6.025	6.027	-0.002	380720	0.07818	39	0.00- 20.00	45.30	BA
6.299	6.299	0.000	1356335	0.20844	100	0.00- 20.00	161.40	BA
Average of Peak Concentrations =					66			
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	511298	0.05106	26	0.00- 20.00	40.38	CO
7.249	7.251	-0.002	263970	0.05523	28	0.00- 20.00	19.46	CO
7.440	7.443	-0.003	225269	0.07728	39	0.00- 20.00	16.61	CO
7.900	7.901	-0.001	130404	0.04942	25	0.00- 20.00	9.61	CO
Average of Peak Concentrations =					29			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10437180	0.09526	48			

QC Flag Legend

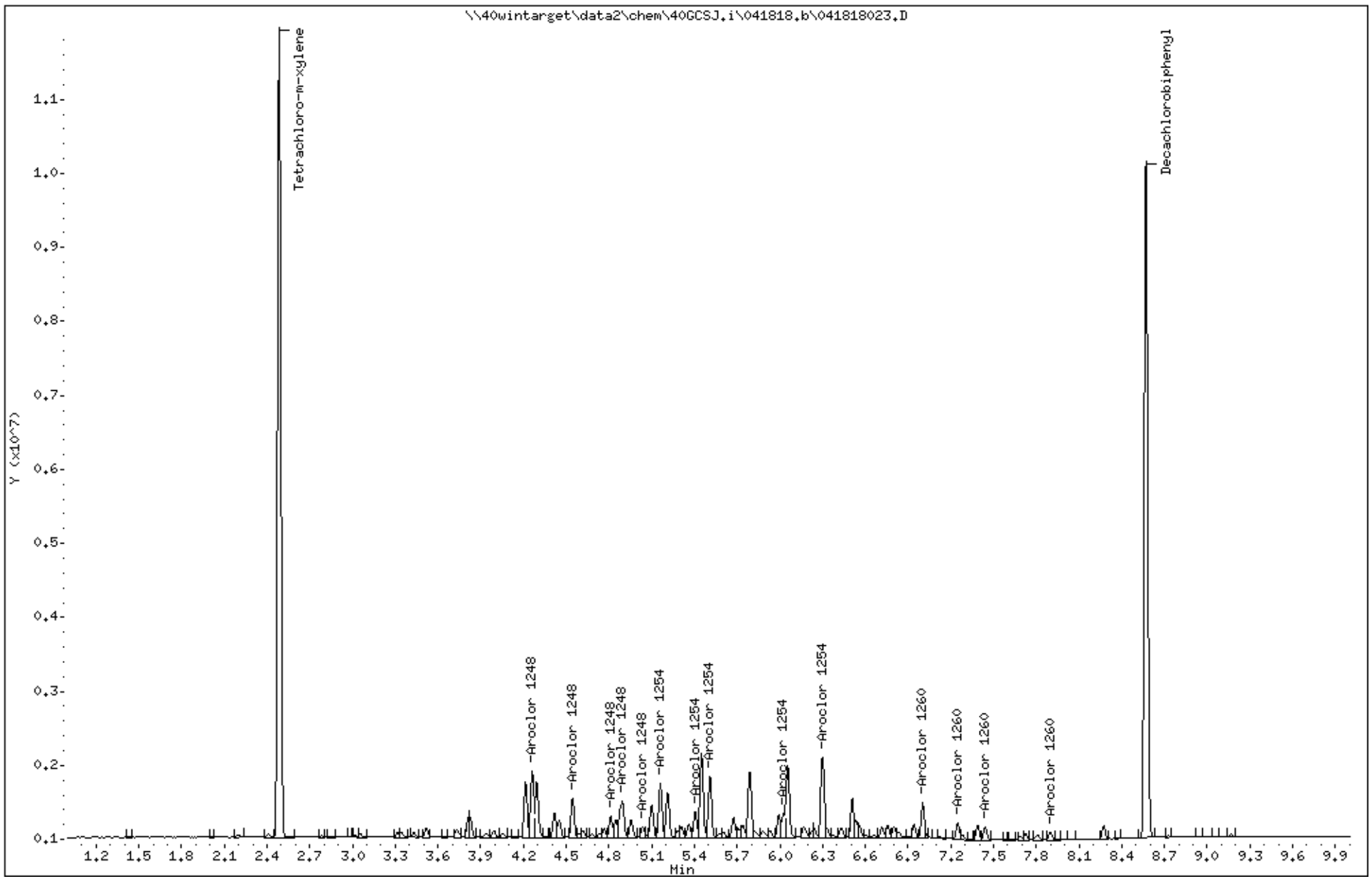
M - Compound response manually integrated.

Review Codes Legend

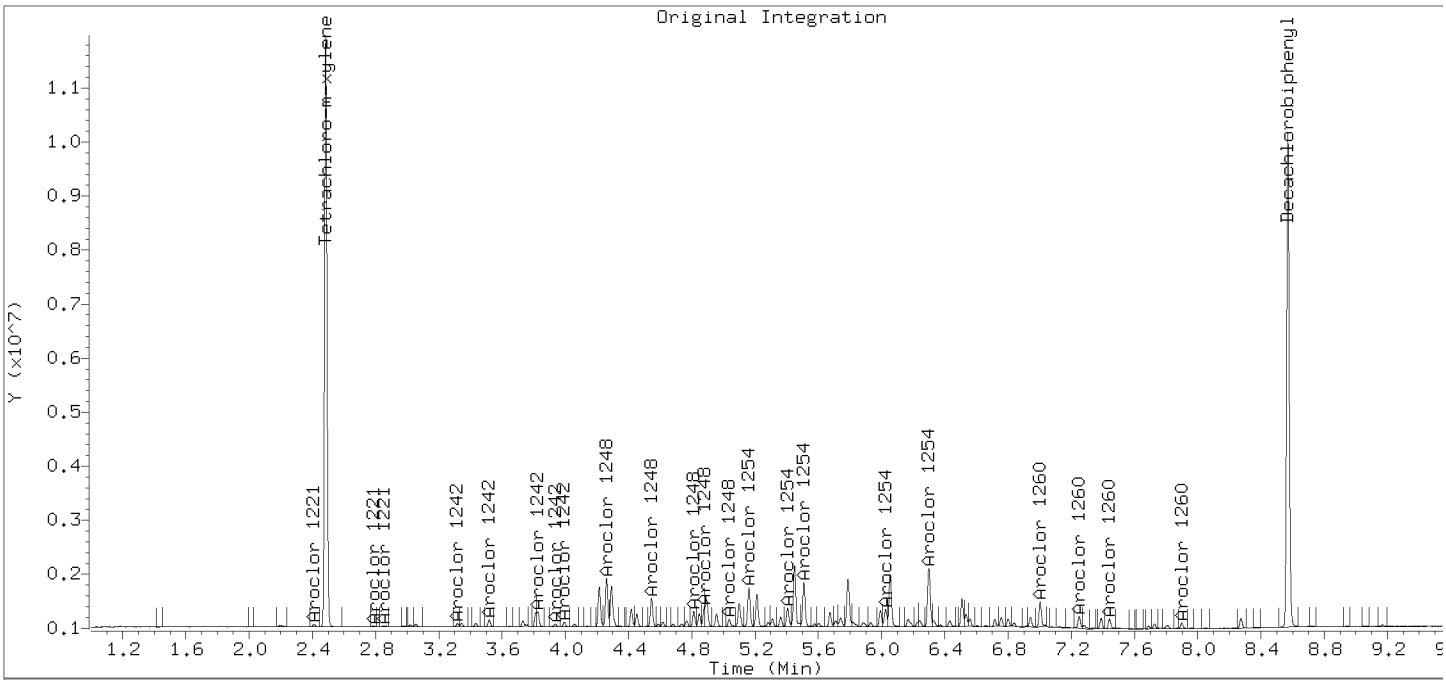
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

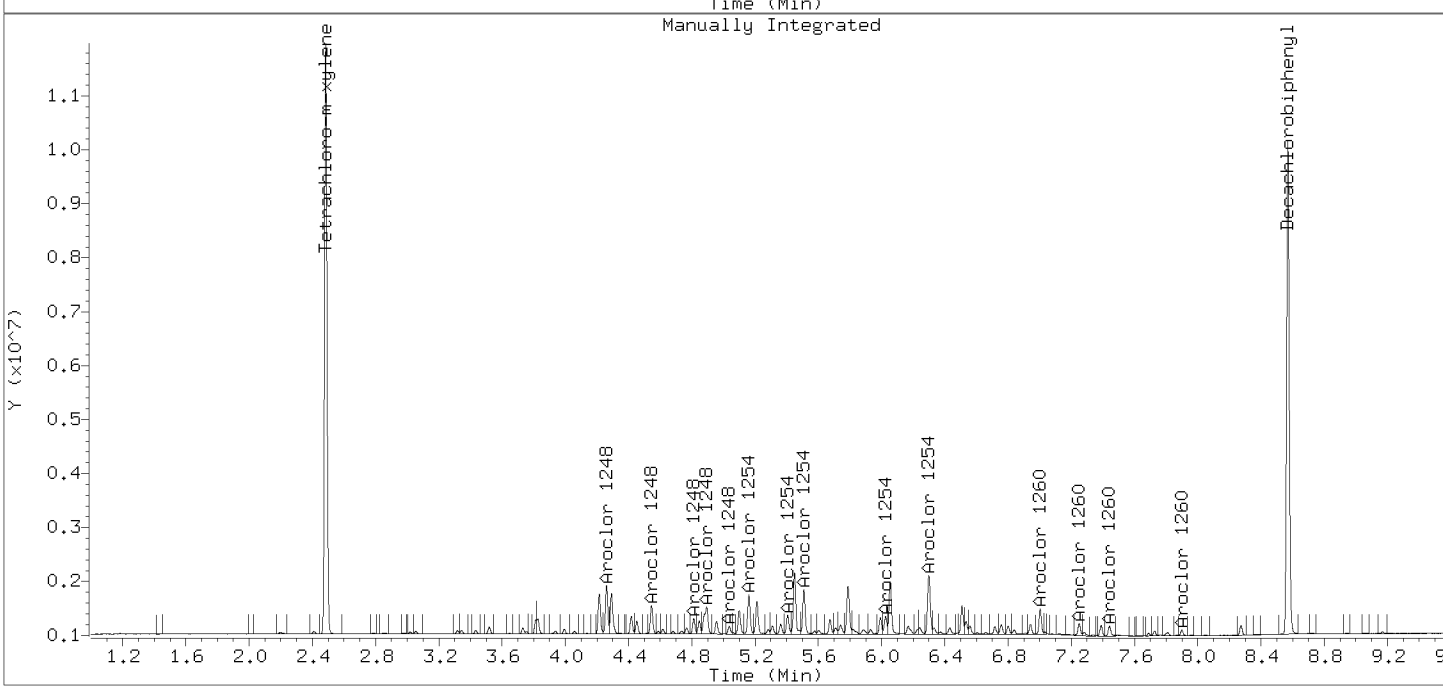
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818023.D
Date : 18-APR-2018 18:15
Client ID: CS1-170620-01-YP-07
Sample Info: 40157932004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 18:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	61683	0	
Aroclor 1016	61683	0	
Aroclor 1016	61683	0	
Aroclor 1016	61683	0	
Aroclor 1016	61683	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30045	0	
Aroclor 1232	30045	0	
Aroclor 1232	30045	0	
Aroclor 1232	30045	0	

Aroclor 1232	30045	0	
Aroclor 1242	61683	0	
Aroclor 1242	61683	0	
Aroclor 1242	61683	0	
Aroclor 1242	61683	0	
Aroclor 1242	61683	0	
Aroclor 1248	941140	950198	CO
Aroclor 1248	941140	950198	CO
Aroclor 1248	941140	950198	CO
Aroclor 1248	941140	950198	CO
Aroclor 1248	941140	950198	CO
Aroclor 1254	813614	840371	BA
Aroclor 1254	813614	840371	BA
Aroclor 1254	813614	840371	BA
Aroclor 1254	813614	840371	BA
Aroclor 1254	813614	840371	BA
Aroclor 1260	1322950	0	CO
Aroclor 1260	1322950	0	CO
Aroclor 1260	1322950	0	CO
Aroclor 1260	1322950	0	CO
Aroclor 1260	1322950	0	CO
Tetrachloro-m-xylene	11689694	11689694	
Decachlorobiphenyl	10437180	10437180	

==========

SAMPLE NO.

CS1-170620-01-YP-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157932005
Date Analyzed: 04/18/2018 18:30
Lab File ID: 041818.B\041818024.D
Initial wt/vol: 10.0271 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)	48.2	J
11097-69-1	PCB-1254 (Aroclor 1254)	30.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	28.6	J
1336-36-3	PCB, Total	108	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818024.D
Lab Smp Id: 40157932005 Client Smp ID: CS1-170620-01-YP-06
Inj Date : 18-APR-2018 18:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932005,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.035	14217	11149	0.784	0.04		
1.073	12272	8514	0.694	0.03		
1.187	27944	13952	0.499	0.07		
2.013	14534	9033	0.621	0.04		
2.200	33867	24171	0.714	0.09		
2.411	43489	37062	0.852	0.12		
2.485	11034360	10372105	0.940	31.62	$ 2 Tetrachloro-m-xylene	
2.785	21543	16961	0.787	0.06		
2.856	17825	12537	0.703	0.05		
3.019	23371	22610	0.967	0.06		
3.050	14382	13150	0.914	0.04		
3.319	16494	16421	0.996	0.04	5 Aroclor 1016	BA
3.344	15033	15389	1.024	0.04		
3.401	12138	12734	1.049	0.03		
3.434	20467	15920	0.778	0.05		
3.518	42991	37733	0.878	0.12	5 Aroclor 1016	BA
3.694	10739	10098	0.940	0.03		
3.732	65668	49025	0.747	0.18		
3.826	266764	155345	0.582	0.75	5 Aroclor 1016	BA
3.992	40127	36847	0.918	0.11	5 Aroclor 1016	BA
4.054	31133	21550	0.692	0.08		
4.215	371774	330148	0.888	1.04		
4.261	460534	429450	0.933	1.29	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	476953	410361	0.860	1.34	
4.348	16295	12623	0.775	0.04	
4.417	159915	148983	0.932	0.45	
4.452	130338	117071	0.898	0.36	
4.545	273570	239613	0.876	0.77	6 Aroclor 1248
4.587	29903	27966	0.935	0.08	
4.616	55792	47690	0.855	0.15	
4.680	32810	28108	0.857	0.09	
4.737	42758	35875	0.839	0.12	
4.769	93316	85524	0.916	0.26	
4.812	189624	176054	0.928	0.53	6 Aroclor 1248
4.847	148828	138316	0.929	0.42	
4.893	487993	255953	0.525	1.37	6 Aroclor 1248
4.956	152715	130706	0.856	0.43	
5.036	108280	94732	0.875	0.30	6 Aroclor 1248
5.052	21784	22404	1.028	0.06	
5.101	279371	230480	0.825	0.78	
5.161	443815	382188	0.861	1.25	7 Aroclor 1254
5.212	394242	353050	0.896	1.11	
5.282	57505	53445	0.929	0.16	
5.310	120166	104017	0.866	0.33	
5.361	144014	109599	0.761	0.40	
5.406	226084	203235	0.899	0.63	7 Aroclor 1254
5.450	792737	752487	0.949	2.23	
5.509	491513	427521	0.870	1.38	7 Aroclor 1254
5.576	44436	37064	0.834	0.12	
5.602	61845	44976	0.727	0.17	
5.674	177054	150493	0.850	0.49	
5.709	93909	75987	0.809	0.26	
5.741	129169	97924	0.758	0.36	
5.788	636967	508845	0.799	1.79	
5.821	127134	64696	0.509	0.35	
5.886	90224	53026	0.588	0.25	
5.930	72075	55685	0.773	0.20	
5.993	223666	198628	0.888	0.63	
6.026	226570	195992	0.865	0.63	7 Aroclor 1254
6.055	741109	636196	0.858	2.09	
6.167	161238	92592	0.574	0.45	
6.225	47332	55464	1.172	0.13	
6.241	103748	72576	0.700	0.29	
6.300	843201	697915	0.828	2.37	8 Aroclor 1260
6.332	94599	78893	0.834	0.26	
6.370	41969	30183	0.719	0.11	
6.431	120821	86052	0.712	0.34	
6.509	351402	319355	0.909	0.99	
6.534	157911	147329	0.933	0.44	
6.560	131162	106794	0.814	0.37	
6.606	26521	21584	0.814	0.07	
6.660	31936	23683	0.742	0.09	
6.717	111327	85401	0.767	0.31	
6.757	131132	104119	0.794	0.37	
6.801	122002	105370	0.864	0.34	
6.838	82301	59123	0.718	0.23	
6.914	22203	19335	0.871	0.06	
6.942	142788	127922	0.896	0.40	
7.003	388675	347183	0.893	1.09	8 Aroclor 1260
7.034	23542	28991	1.231	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	29522	16211	0.549	0.08	
7.250	176005	153175	0.870	0.49	8 Aroclor 1260
7.279	78117	52428	0.671	0.22	
7.334	22143	16049	0.725	0.06	
7.389	165075	151084	0.915	0.46	
7.443	197331	162455	0.823	0.55	8 Aroclor 1260
7.579	12289	10295	0.838	0.03	
7.632	22265	14202	0.638	0.06	
7.690	38137	38127	1.000	0.10	
7.727	96829	82141	0.848	0.27	
7.811	81422	48480	0.595	0.22	
7.899	128408	96648	0.753	0.36	8 Aroclor 1260
7.957	27719	15222	0.549	0.07	
8.047	23689	19263	0.813	0.06	
8.274	213097	179505	0.842	0.60	
8.378	17667	13168	0.745	0.04	
8.570	10278350	8940341	0.870	29.00	$ 12 Decachlorobiphenyl
8.725	23602	18131	0.768	0.06	
9.167	31708	27205	0.858	0.08	
9.735	12165	7745	0.637	0.03	
9.959	12975	7834	0.604	0.03	
	35430470	31058990		100.000	

Total unknown % area = 25

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818024.D
Lab Smp Id: 40157932005 Client Smp ID: CS1-170620-01-YP-06
Inj Date : 18-APR-2018 18:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932005,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11034360	0.08950	45			
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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	460534	0.19656	98	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	273569	0.06592	33	0.00- 20.00	59.40	CO
4.811	4.812	-0.001	189624	0.09341	46	0.00- 20.00	41.17	CO
4.892	4.879	0.013	487993	0.09687	48	0.00- 20.00	105.96	CO
5.036	5.038	-0.002	108280	0.03017	15	0.00- 20.00	23.51	CO
Average of Peak Concentrations =					48			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	443814	0.08477	42	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	226083	0.05256	26	0.00- 20.00	50.94	BA
5.508	5.510	-0.002	491513	0.06329	32	0.00- 20.00	110.75	BA
6.026	6.027	-0.001	226570	0.04653	23	0.00- 20.00	51.05	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					31			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	843200	0.09514	47	0.00- 20.00	100.00(M)	CO
7.002	7.006	-0.004	388675	0.03881	19	0.00- 20.00	46.10	CO
7.250	7.251	-0.001	176005	0.03682	18	0.00- 20.00	20.87	CO
7.442	7.443	-0.001	197331	0.06769	34	0.00- 20.00	23.40	CO
7.899	7.901	-0.002	128407	0.04866	24	0.00- 20.00	15.23	CO
Average of Peak Concentrations =					29			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10278350	0.09381	47			

QC Flag Legend

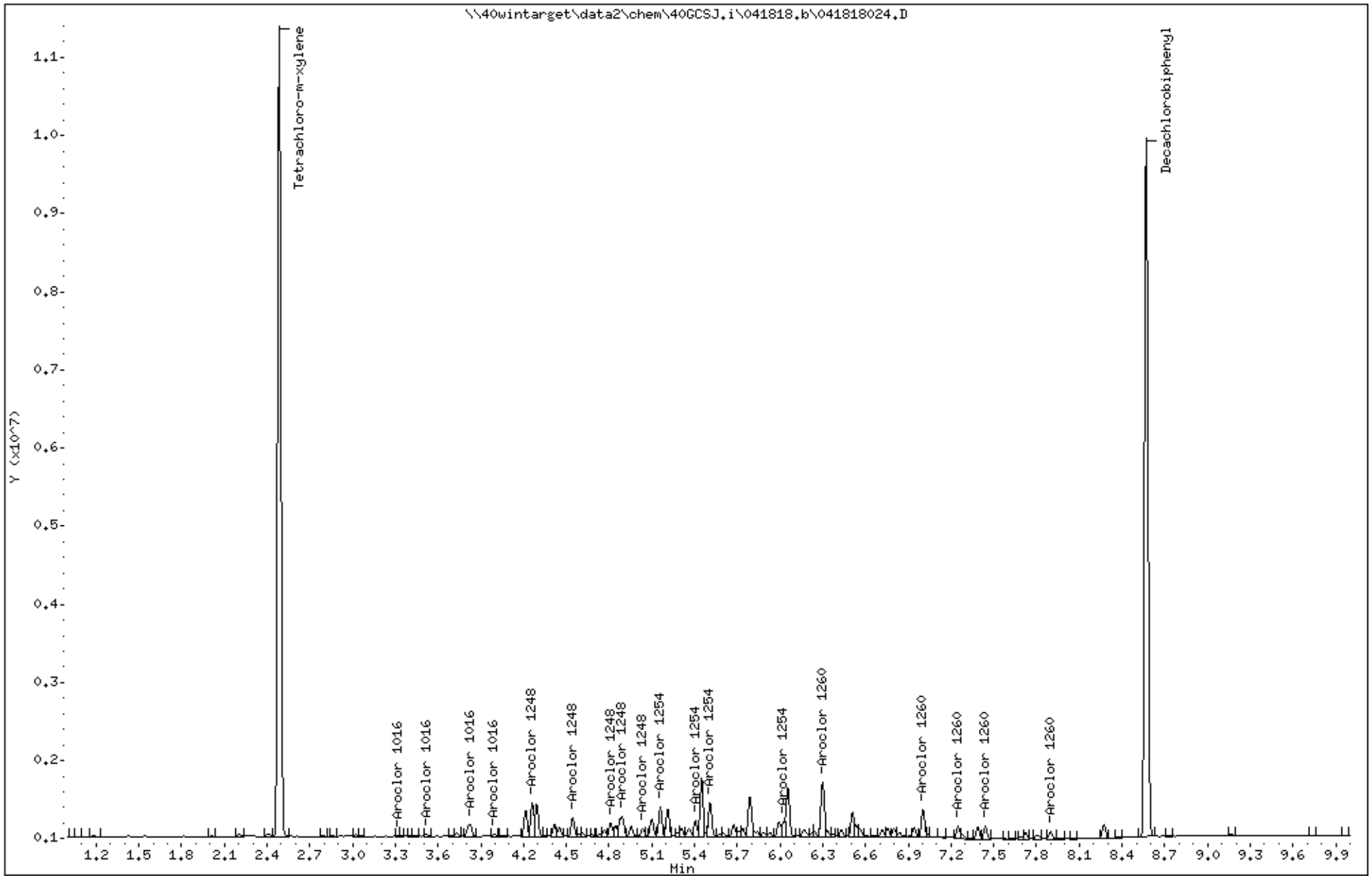
M - Compound response manually integrated.

Review Codes Legend

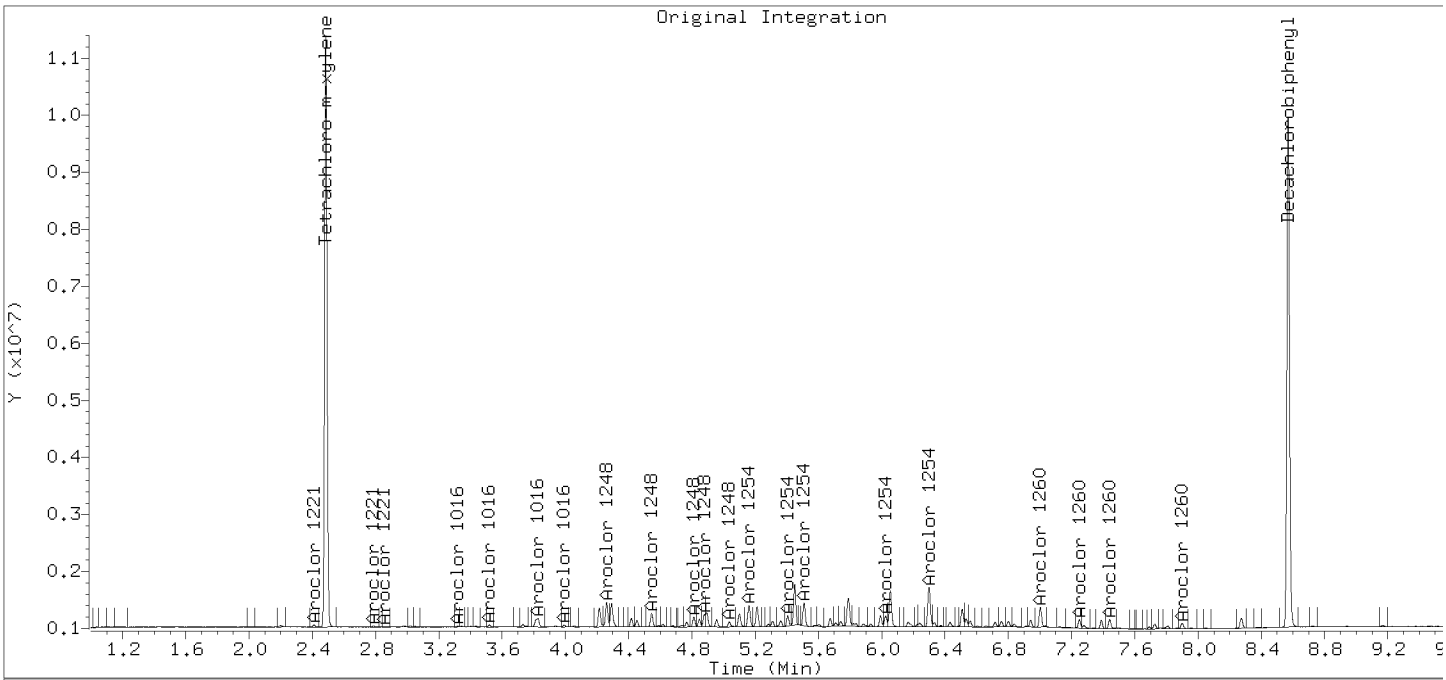
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

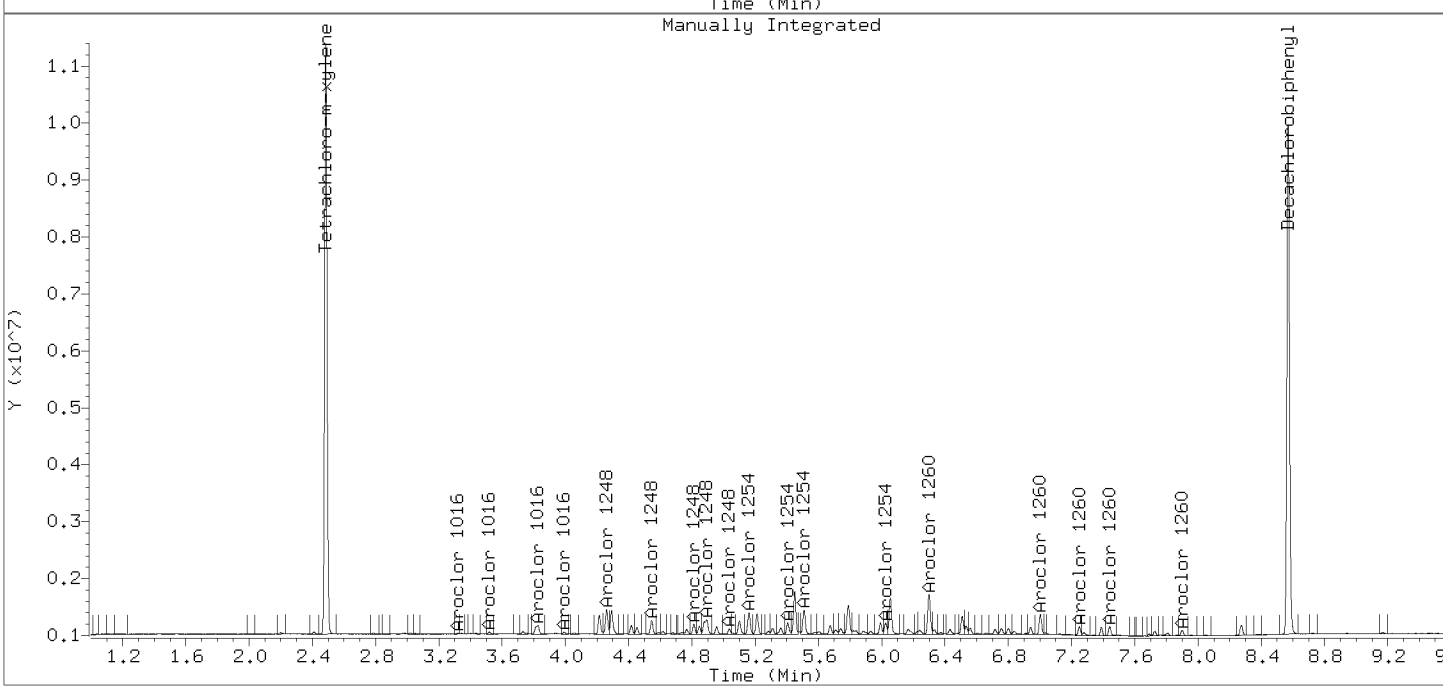
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818024.D
Date : 18-APR-2018 18:30
Client ID: CS1-170620-01-YP-06
Sample Info: 40157932005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 18:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
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	454510	460534	CO
Aroclor 1248	454510	460534	CO
Aroclor 1248	454510	460534	CO
Aroclor 1248	454510	460534	CO
Aroclor 1248	454510	460534	CO
Aroclor 1254	422430	443814	BA
Aroclor 1254	422430	443814	BA
Aroclor 1254	422430	443814	BA
Aroclor 1254	422430	443814	BA
Aroclor 1254	422430	443814	BA
Aroclor 1260	821228	843200	CO
Aroclor 1260	821228	843200	CO
Aroclor 1260	821228	843200	CO
Aroclor 1260	821228	843200	CO
Aroclor 1260	821228	843200	CO
Tetrachloro-m-xylene	11034360	11034360	
Decachlorobiphenyl	10278350	10278350	

==========

SAMPLE NO.

CS1-170620-01-YP-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157932006
Date Analyzed: 04/18/2018 18:46
Lab File ID: 041818.B\041818025.D
Initial wt/vol: 10.0034 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)	35.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	24.3	J
11096-82-5	PCB-1260 (Aroclor 1260)	19.6	J
1336-36-3	PCB, Total	79.1	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818025.D
Lab Smp Id: 40157932006 Client Smp ID: CS1-170620-01-YP-05
Inj Date : 18-APR-2018 18:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932006,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	14107	9342	0.662	0.04		
1.425	11773	8711	0.740	0.03		
1.538	12054	9658	0.801	0.03		
2.196	26867	20783	0.774	0.08		
2.411	30204	28703	0.950	0.09		
2.485	11657671	10944950	0.939	36.11	$ 2 Tetrachloro-m-xylene	
2.789	26841	19386	0.722	0.08		
2.853	21906	14567	0.665	0.06		
2.975	19703	13421	0.681	0.06		
3.021	22623	21490	0.950	0.06		
3.055	14943	13269	0.888	0.04		
3.317	23969	23935	0.999	0.07	3 Aroclor 1242	BA
3.344	31082	26559	0.854	0.09		
3.430	28933	20944	0.724	0.08		
3.521	32720	27152	0.830	0.09	3 Aroclor 1242	BA
3.730	43529	31232	0.718	0.13		
3.827	166152	93200	0.561	0.50	3 Aroclor 1242	BA
3.935	29817	19460	0.653	0.09	3 Aroclor 1242	BA
3.994	32975	27436	0.832	0.10	3 Aroclor 1242	BA
4.056	23966	17057	0.712	0.07		
4.215	278330	232532	0.835	0.85		
4.261	310879	290085	0.933	0.94	6 Aroclor 1248	CO
4.292	303167	256604	0.846	0.92		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	118133	107543	0.910	0.36	
4.451	96092	85143	0.886	0.29	
4.545	239766	206588	0.862	0.73	6 Aroclor 1248
4.587	22883	21799	0.953	0.06	
4.617	41986	32667	0.778	0.12	
4.679	24747	19434	0.785	0.07	
4.735	31801	24942	0.784	0.09	
4.768	79527	73096	0.919	0.24	
4.813	130631	119672	0.916	0.39	6 Aroclor 1248
4.847	117976	114067	0.967	0.36	
4.894	365295	195272	0.535	1.11	6 Aroclor 1248
4.957	106337	90933	0.855	0.32	
5.038	85830	76773	0.894	0.26	6 Aroclor 1248
5.054	18778	17377	0.925	0.05	
5.100	210590	174195	0.827	0.64	
5.161	339319	298367	0.879	1.03	7 Aroclor 1254
5.212	285410	240474	0.843	0.87	
5.283	41619	37143	0.892	0.12	
5.311	104124	88008	0.845	0.31	
5.363	124423	90885	0.730	0.38	
5.407	177732	157299	0.885	0.54	7 Aroclor 1254
5.450	565844	517407	0.914	1.72	
5.509	391661	338631	0.865	1.19	7 Aroclor 1254
5.576	30336	24479	0.807	0.09	
5.603	54041	41678	0.771	0.16	
5.674	135161	123373	0.913	0.41	
5.709	81732	57514	0.704	0.24	
5.741	95332	75172	0.789	0.29	
5.787	476061	377300	0.793	1.45	
5.821	82846	53006	0.640	0.25	
5.883	72896	41247	0.566	0.22	
5.928	52741	39670	0.752	0.16	
5.993	151280	141698	0.937	0.46	
6.025	185081	162394	0.877	0.56	7 Aroclor 1254
6.055	514631	424624	0.825	1.57	
6.169	85110	73977	0.869	0.26	
6.186	71510	61397	0.859	0.21	
6.226	36596	45406	1.241	0.11	
6.240	87276	59543	0.682	0.26	
6.299	605365	509215	0.841	1.84	8 Aroclor 1260
6.331	72469	58872	0.812	0.22	
6.374	34346	24965	0.727	0.10	
6.430	98430	64296	0.653	0.30	
6.488	16923	17327	1.024	0.05	
6.509	258255	237618	0.920	0.78	
6.536	115866	110210	0.951	0.35	
6.560	91925	77709	0.845	0.28	
6.604	16297	12615	0.774	0.04	
6.659	25466	21182	0.832	0.07	
6.716	98160	79490	0.810	0.29	
6.756	115200	93929	0.815	0.35	
6.801	86342	77272	0.895	0.26	
6.839	63693	43452	0.682	0.19	
6.941	113529	102480	0.903	0.34	
7.004	255733	234688	0.918	0.78	8 Aroclor 1260
7.034	19445	20885	1.074	0.05	
7.091	12131	10852	0.895	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	39963	18399	0.460	0.12	
7.250	136556	114854	0.841	0.41	8 Aroclor 1260
7.281	60356	40828	0.676	0.18	
7.333	16581	14290	0.862	0.05	
7.389	110123	104198	0.946	0.33	
7.441	129135	111276	0.862	0.39	8 Aroclor 1260
7.581	14529	14415	0.992	0.04	
7.614	24489	13793	0.563	0.07	
7.690	25867	27108	1.048	0.07	
7.726	76660	66566	0.868	0.23	
7.765	9768	10928	1.119	0.02	
7.811	59814	35318	0.590	0.18	
7.898	78189	63925	0.818	0.23	8 Aroclor 1260
7.954	13988	10440	0.746	0.04	
8.049	27780	22152	0.797	0.08	
8.273	173084	151615	0.876	0.52	
8.375	11639	11151	0.958	0.03	
8.570	10473959	9007442	0.860	32.00	$ 12 Decachlorobiphenyl
8.727	13843	12350	0.892	0.04	
9.167	31581	25428	0.805	0.09	
	32724825	28774202		100.000	

Total unknown % area = 21

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818025.D
Lab Smp Id: 40157932006 Client Smp ID: CS1-170620-01-YP-05
Inj Date : 18-APR-2018 18:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932006,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.003	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	11657671	0.09455	47			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	310879	0.13269	66	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	239766	0.05777	29	0.00- 20.00	77.13	CO
4.813	4.812	0.001	130631	0.06435	32	0.00- 20.00	42.02	CO
4.894	4.879	0.015	365294	0.07252	36	0.00- 20.00	117.50	CO
5.038	5.038	0.000	85829	0.02392	12	0.00- 20.00	27.61	CO
Average of Peak Concentrations =					35			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	339319	0.06481	32	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	177731	0.04132	21	0.00- 20.00	52.38	BA
5.508	5.510	-0.002	391661	0.05043	25	0.00- 20.00	115.43	BA
6.024	6.027	-0.003	185080	0.03801	19	0.00- 20.00	54.54	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					24			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	605364	0.06831	34	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	255732	0.02554	13	0.00- 20.00	42.24	CO
7.249	7.251	-0.002	136556	0.02857	14	0.00- 20.00	22.56	CO
7.441	7.443	-0.002	129135	0.04430	22	0.00- 20.00	21.33	CO
7.898	7.901	-0.003	78189	0.02963	15	0.00- 20.00	12.92	CO
Average of Peak Concentrations =					20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10473958	0.09560	48			

QC Flag Legend

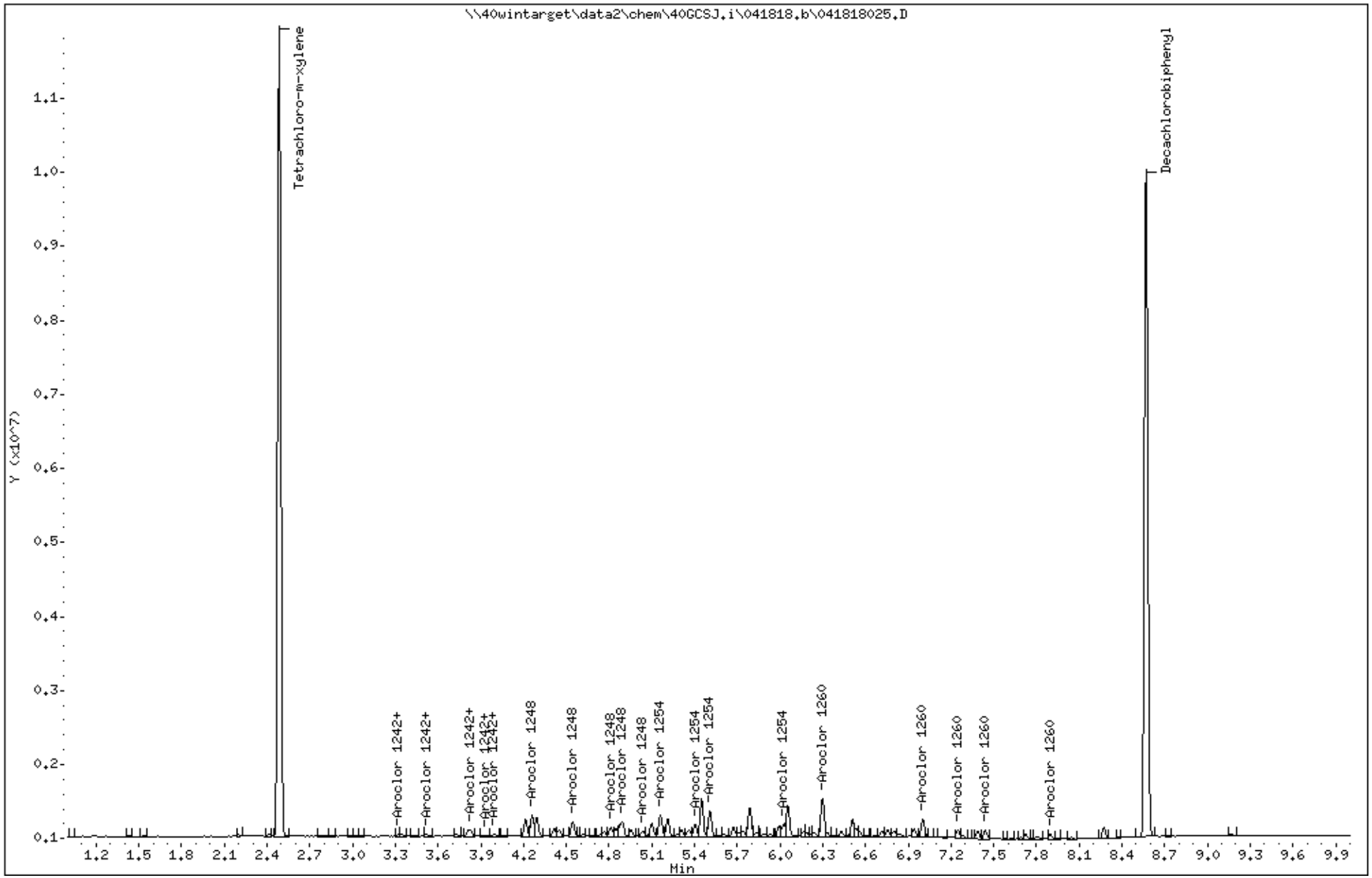
M - Compound response manually integrated.

Review Codes Legend

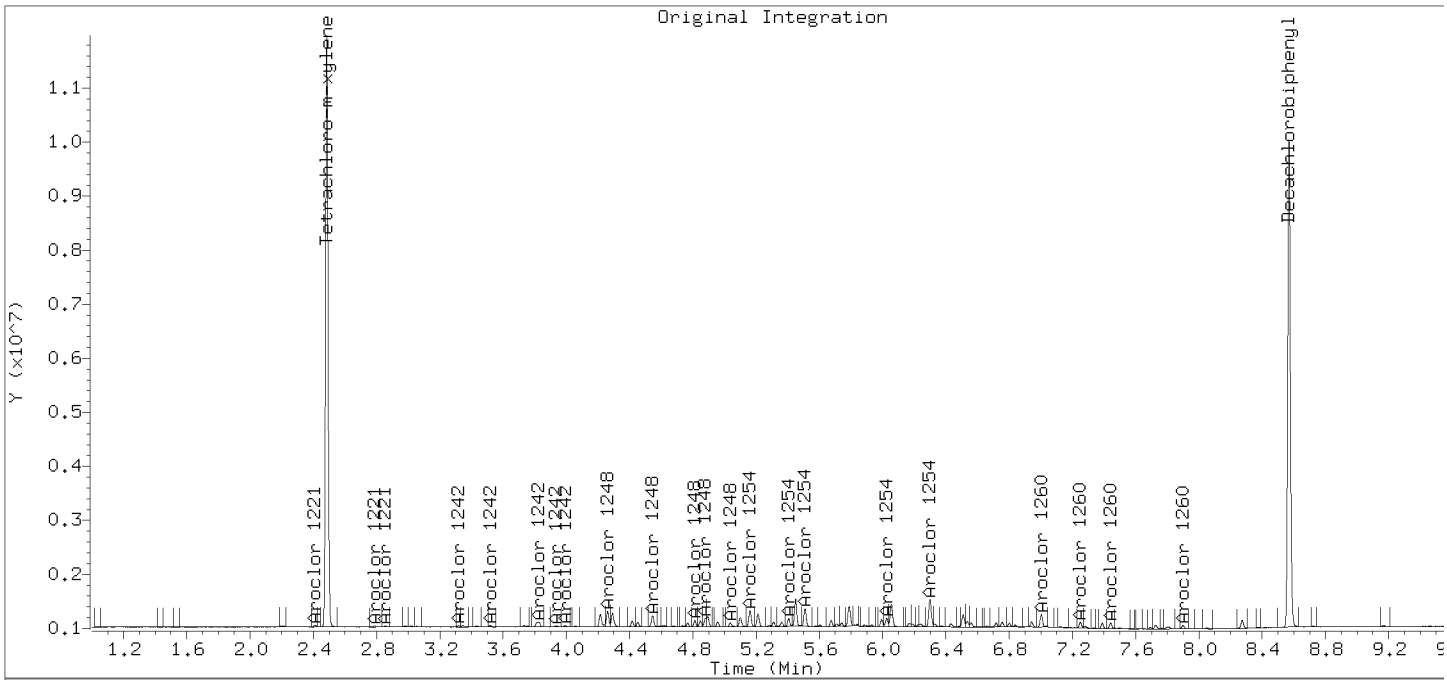
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

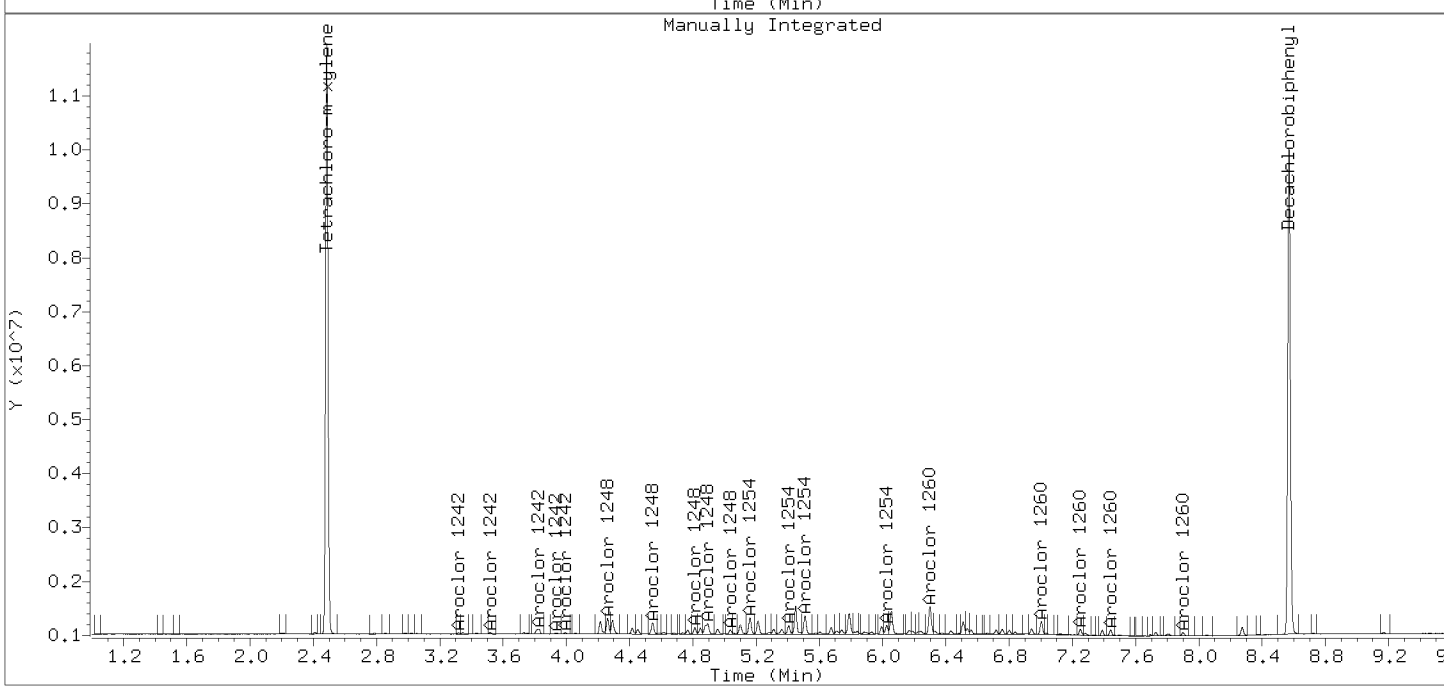
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818025.D
Date : 18-APR-2018 18:46
Client ID: CS1-170620-01-YP-05
Sample Info: 40157932006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 18:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	21905	0	
Aroclor 1232	21905	0	
Aroclor 1232	21905	0	
Aroclor 1232	21905	0	

Aroclor 1232	21905	0	
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	304356	310879	CO
Aroclor 1248	304356	310879	CO
Aroclor 1248	304356	310879	CO
Aroclor 1248	304356	310879	CO
Aroclor 1248	304356	310879	CO
Aroclor 1254	318620	339319	BA
Aroclor 1254	318620	339319	BA
Aroclor 1254	318620	339319	BA
Aroclor 1254	318620	339319	BA
Aroclor 1254	318620	339319	BA
Aroclor 1260	589252	605364	CO
Aroclor 1260	589252	605364	CO
Aroclor 1260	589252	605364	CO
Aroclor 1260	589252	605364	CO
Aroclor 1260	589252	605364	CO
Tetrachloro-m-xylene	11657671	11657671	
Decachlorobiphenyl	10473958	10473958	

==========

SAMPLE NO.

AT1-170620-01-YP-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157932007
Date Analyzed: 04/18/2018 19:02
Lab File ID: 041818.B\041818026.D
Initial wt/vol: 9.9623 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)	107	
11097-69-1	PCB-1254 (Aroclor 1254)	95.7	
11096-82-5	PCB-1260 (Aroclor 1260)	75.9	
1336-36-3	PCB, Total	279	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818026.D
Lab Smp Id: 40157932007 Client Smp ID: AT1-170620-01-YP-10
Inj Date : 18-APR-2018 19:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932007,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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	9.962	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.034	15757	8809	0.559	0.02		
1.539	12036	9546	0.793	0.02		
2.199	71865	34428	0.479	0.12		
2.293	41504	32774	0.790	0.07		
2.409	152866	122543	0.802	0.26		
2.485	11635657	10858712	0.933	20.35	$ 2 Tetrachloro-m-xylene	
2.790	30706	27267	0.888	0.05		
2.852	56071	42531	0.759	0.09		
2.975	43824	27939	0.638	0.07		
3.019	34346	30685	0.893	0.05		
3.056	128683	116023	0.902	0.21		
3.316	68478	63367	0.925	0.11		
3.344	91649	85626	0.934	0.15		
3.433	172299	152882	0.887	0.29		
3.519	164344	147438	0.897	0.28		
3.643	21698	18128	0.835	0.03		
3.686	9394	8919	0.949	0.01		
3.730	137726	136892	0.994	0.23		
3.753	54550	50591	0.927	0.09		
3.813	266716	300616	1.127	0.45		
3.825	300113	292425	0.974	0.51		
3.938	110313	84761	0.768	0.18		
3.993	112598	102273	0.908	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.057	63135	54506	0.863	0.10	
4.136	17263	12340	0.715	0.02	
4.214	891473	801408	0.899	1.51	
4.260	865503	835654	0.966	1.47	6 Aroclor 1248
4.291	977592	832395	0.851	1.66	
4.348	19856	14323	0.721	0.03	
4.416	344421	323612	0.940	0.58	
4.451	291001	256833	0.883	0.49	
4.508	20333	17801	0.875	0.03	
4.545	646715	604494	0.935	1.10	6 Aroclor 1248
4.588	79909	72852	0.912	0.13	
4.616	92882	82840	0.892	0.15	
4.680	73739	69057	0.937	0.12	
4.736	99653	79977	0.803	0.16	
4.767	185992	172429	0.927	0.31	
4.812	429850	406036	0.945	0.73	6 Aroclor 1248
4.847	314189	294169	0.936	0.53	
4.894	1274287	687071	0.539	2.17	6 Aroclor 1248
4.956	343250	305672	0.891	0.58	
5.036	289413	281523	0.973	0.49	6 Aroclor 1248
5.055	28643	33430	1.167	0.04	
5.100	793204	685660	0.864	1.35	
5.160	1271723	1100932	0.866	2.16	7 Aroclor 1254
5.212	999167	892044	0.893	1.70	
5.283	128074	122486	0.956	0.21	
5.309	278607	234041	0.840	0.47	
5.362	357535	308608	0.863	0.60	
5.405	690557	637319	0.923	1.17	7 Aroclor 1254
5.449	1239457	1117421	0.902	2.11	
5.479	131427	125201	0.953	0.22	
5.509	1518044	1374005	0.905	2.58	7 Aroclor 1254
5.576	115094	103070	0.896	0.19	
5.602	153362	135970	0.887	0.26	
5.674	523840	492717	0.941	0.89	
5.709	337402	270449	0.802	0.57	
5.741	356869	278646	0.781	0.60	
5.787	2047100	1544252	0.754	3.48	
5.883	233667	164074	0.702	0.39	
5.930	180864	157809	0.873	0.30	
5.992	569818	552089	0.969	0.97	
6.024	795955	691838	0.869	1.35	7 Aroclor 1254
6.054	1909553	1678658	0.879	3.25	
6.168	492724	300017	0.609	0.83	
6.226	136982	153530	1.121	0.23	
6.242	262116	202652	0.773	0.44	
6.298	2465185	1997252	0.810	4.20	8 Aroclor 1260
6.333	247377	228457	0.924	0.42	
6.373	102127	83406	0.817	0.17	
6.430	308550	256278	0.831	0.52	
6.509	1038605	923298	0.889	1.76	
6.534	435474	415333	0.954	0.74	
6.559	329848	285193	0.865	0.56	
6.603	44770	43631	0.975	0.07	
6.658	62150	60630	0.976	0.10	
6.717	334956	300191	0.896	0.57	
6.757	397906	336004	0.844	0.67	
6.801	330533	295467	0.894	0.56	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.837	209219	168080	0.803	0.35	
6.910	51807	54330	1.049	0.08	
6.941	406358	395198	0.973	0.69	
7.004	1029799	994151	0.965	1.75	8 Aroclor 1260
7.035	83068	74652	0.899	0.14	
7.073	14461	11807	0.816	0.02	
7.120	35778	29326	0.820	0.06	
7.250	469612	418319	0.891	0.80	8 Aroclor 1260
7.280	151091	129638	0.858	0.25	
7.332	21904	16746	0.765	0.03	
7.387	483839	416399	0.861	0.82	
7.441	471641	419742	0.890	0.80	8 Aroclor 1260
7.491	37583	21864	0.582	0.06	
7.546	16964	17757	1.047	0.02	
7.689	105733	98610	0.933	0.18	
7.725	218019	190428	0.873	0.37	
7.762	28270	24562	0.869	0.04	
7.809	195723	138038	0.705	0.33	
7.860	25005	21152	0.846	0.04	
7.899	303314	258553	0.852	0.51	8 Aroclor 1260
7.956	47128	26348	0.559	0.08	
8.049	50962	44731	0.878	0.08	
8.273	464205	405157	0.873	0.79	
8.375	27660	17121	0.619	0.04	
8.569	10827503	9611405	0.888	18.44	$ 12 Decachlorobiphenyl
8.700	17324	17126	0.989	0.02	
8.723	66775	56614	0.848	0.11	
9.054	21604	15128	0.700	0.03	
9.167	105690	86664	0.820	0.18	
	58690952	51721871		100.000	

Total unknown % area = 40

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818026.D
Lab Smp Id: 40157932007 Client Smp ID: AT1-170620-01-YP-10
Inj Date : 18-APR-2018 19:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932007,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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	9.962	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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.485	2.484	0.001	11635657	0.09437	47			

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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	865502	0.36940	180	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	646714	0.15582	78	0.00- 20.00	74.72	CO
4.811	4.812	-0.001	429849	0.21174	110	0.00- 20.00	49.66	CO
4.893	4.879	0.014	1274287	0.25296	130	0.00- 20.00	147.23	CO
5.035	5.038	-0.003	289412	0.08065	40	0.00- 20.00	33.44	CO
			Average of Peak Concentrations =		110			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1271723	0.24292	120	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	690556	0.16056	80	0.00- 20.00	54.30	BA
5.509	5.510	-0.001	1518043	0.19547	98	0.00- 20.00	119.37	BA
6.024	6.027	-0.003	795955	0.16345	82	0.00- 20.00	62.59	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		96			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	2465184	0.27816	140	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1029799	0.10283	52	0.00- 20.00	41.77	BA
7.250	7.251	-0.001	469611	0.09825	49	0.00- 20.00	19.05	BA
7.441	7.443	-0.002	471640	0.16179	81	0.00- 20.00	19.13	BA
7.899	7.901	-0.002	303313	0.11495	58	0.00- 20.00	12.30	BA
			Average of Peak Concentrations =		76			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10827503	0.09883	50			

QC Flag Legend

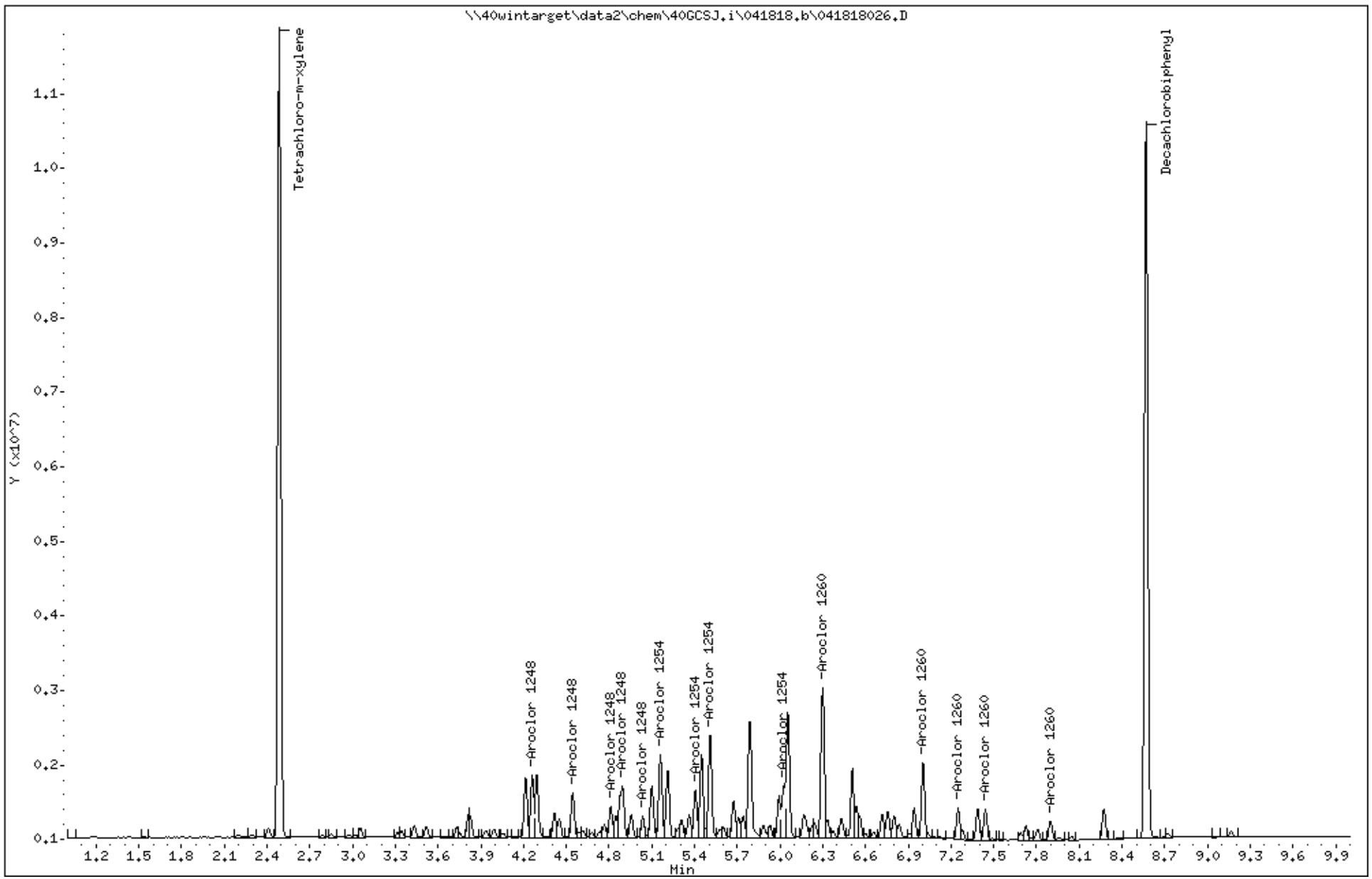
M - Compound response manually integrated.

Review Codes Legend

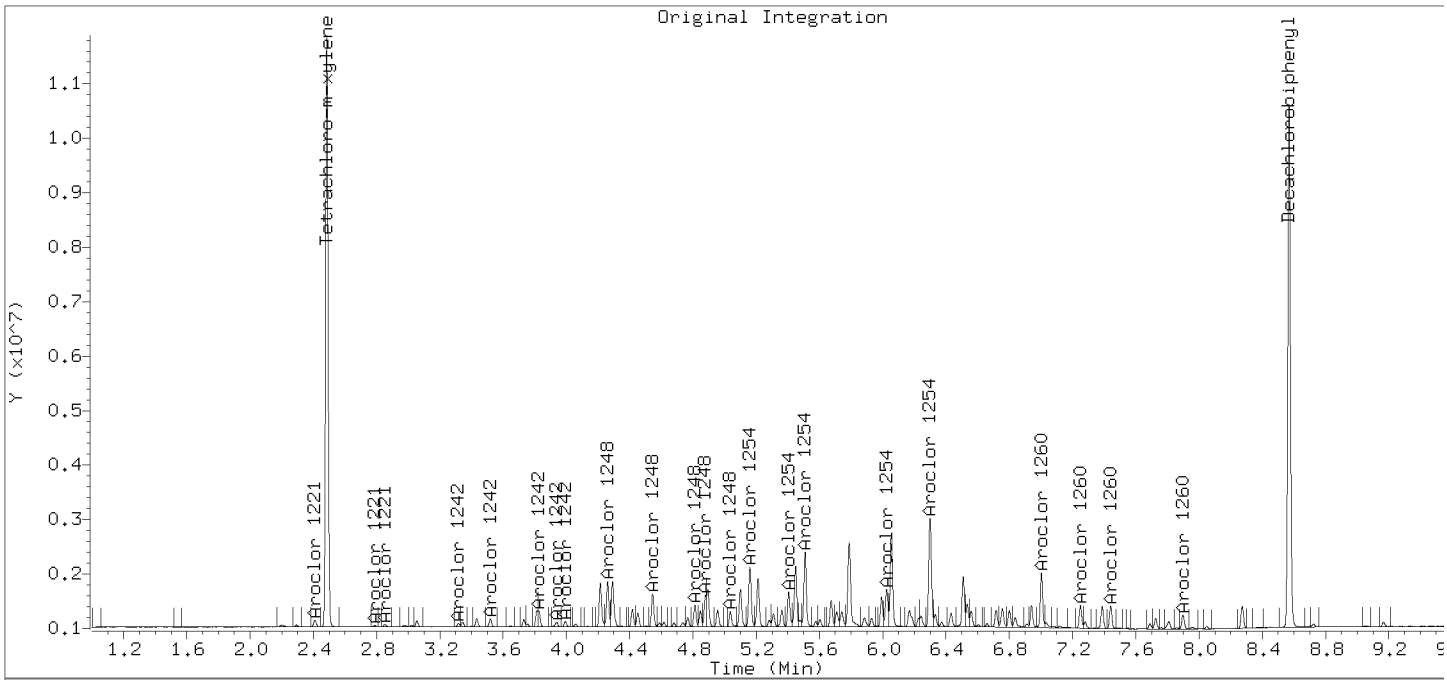
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

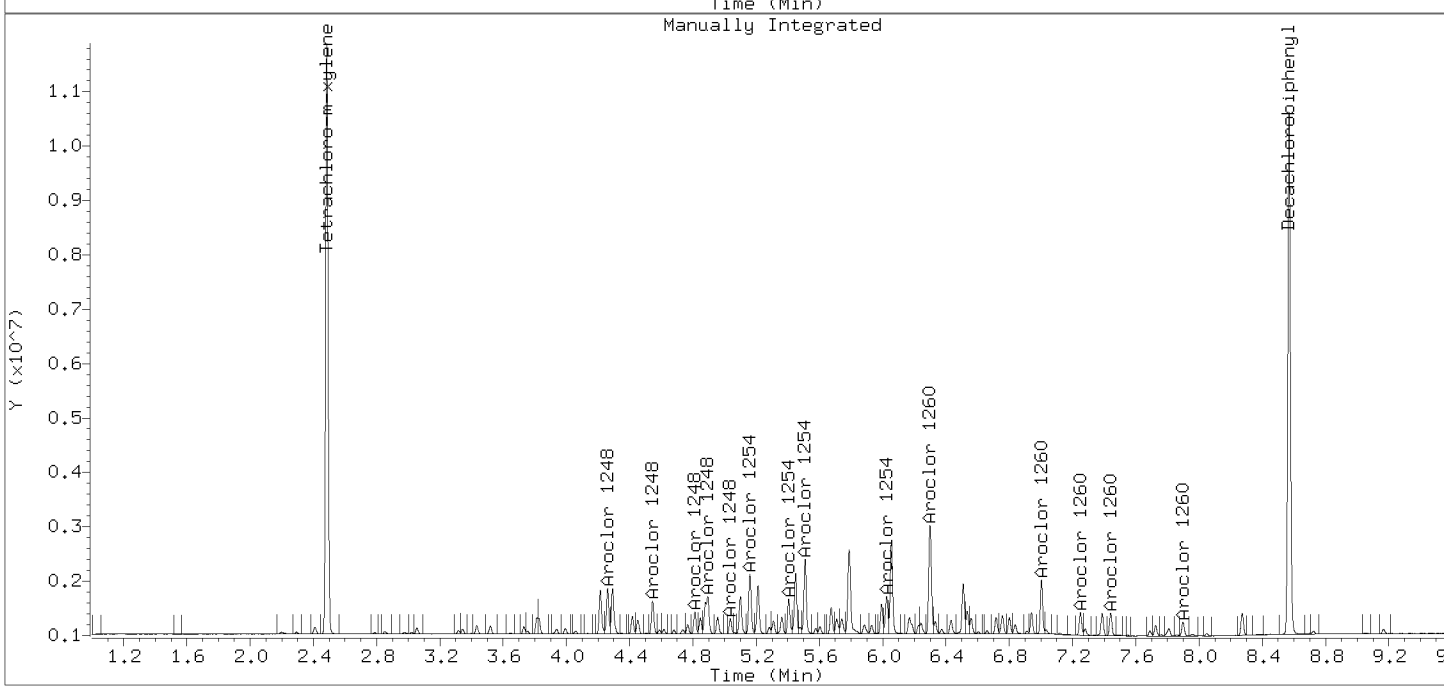
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818026.D
Date : 18-APR-2018 19:02
Client ID: AT1-170620-01-YP-10
Sample Info: 40157932007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 19:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	68478	0	
Aroclor 1016	68478	0	
Aroclor 1016	68478	0	
Aroclor 1016	68478	0	
Aroclor 1016	68478	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	56071	0	
Aroclor 1232	56071	0	
Aroclor 1232	56071	0	
Aroclor 1232	56071	0	

Aroclor 1232	56071	0	
Aroclor 1242	68478	0	
Aroclor 1242	68478	0	
Aroclor 1242	68478	0	
Aroclor 1242	68478	0	
Aroclor 1242	68478	0	
Aroclor 1248	860435	865502	CO
Aroclor 1248	860435	865502	CO
Aroclor 1248	860435	865502	CO
Aroclor 1248	860435	865502	CO
Aroclor 1248	860435	865502	CO
Aroclor 1254	1258919	1271723	BA
Aroclor 1254	1258919	1271723	BA
Aroclor 1254	1258919	1271723	BA
Aroclor 1254	1258919	1271723	BA
Aroclor 1254	1258919	1271723	BA
Aroclor 1260	2450945	2465184	BA
Aroclor 1260	2450945	2465184	BA
Aroclor 1260	2450945	2465184	BA
Aroclor 1260	2450945	2465184	BA
Aroclor 1260	2450945	2465184	BA
Tetrachloro-m-xylene	11635657	11635657	
Decachlorobiphenyl	10827503	10827503	

==========

SAMPLE NO.

AT1-170620-01-YP-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157932008
Date Analyzed: 04/18/2018 19:18
Lab File ID: 041818.B\041818027.D
Initial wt/vol: 9.9929 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)	36.7	J
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	130	
11097-69-1	PCB-1254 (Aroclor 1254)	118	
11096-82-5	PCB-1260 (Aroclor 1260)	90.8	
1336-36-3	PCB, Total	375	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818027.D
Lab Smp Id: 40157932008 Client Smp ID: AT1-170620-01-YP-09
Inj Date : 18-APR-2018 19:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932008,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	55119	36959	0.671	0.08		
1.314	9231	5765	0.625	0.01		
1.434	15934	11351	0.712	0.02		
2.199	46603	29876	0.641	0.07		
2.294	38735	27799	0.718	0.05		
2.409	127796	99057	0.775	0.19	1 Aroclor 1221	BA
2.485	11318329	10551265	0.932	17.81	$ 2 Tetrachloro-m-xylene	BA
2.677	15498	8745	0.564	0.02	1 Aroclor 1221	BA
2.790	32790	26847	0.819	0.05	1 Aroclor 1221	BA
2.852	62270	44512	0.715	0.09	1 Aroclor 1221	BA
2.976	55402	31265	0.564	0.08		
3.021	38611	34864	0.903	0.05		
3.055	135696	119763	0.883	0.20		
3.317	79107	78622	0.994	0.12		
3.345	122252	110014	0.900	0.18		
3.397	15291	11395	0.745	0.02		
3.433	191716	176001	0.918	0.29		
3.519	179427	159089	0.887	0.27		
3.645	25284	21307	0.843	0.03		
3.732	152866	150966	0.988	0.23		
3.755	60396	56369	0.933	0.09		
3.813	566187	325796	0.575	0.86		
3.938	140429	104070	0.741	0.21		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	125351	117492	0.937	0.19	
4.058	89595	74712	0.834	0.13	
4.136	22411	20226	0.903	0.03	
4.214	984310	895211	0.909	1.50	
4.260	1030263	982465	0.954	1.57	6 Aroclor 1248
4.292	1167998	998513	0.855	1.78	
4.345	23317	19162	0.822	0.03	
4.417	382632	365458	0.955	0.58	
4.452	314669	297196	0.944	0.48	
4.545	826885	767906	0.929	1.26	6 Aroclor 1248
4.588	98989	92962	0.939	0.15	
4.616	101299	92803	0.916	0.15	
4.681	98491	89460	0.908	0.15	
4.735	128947	113338	0.879	0.19	
4.767	243790	231091	0.948	0.37	
4.812	515252	494958	0.961	0.78	6 Aroclor 1248
4.848	340581	319488	0.938	0.51	
4.892	1547803	843005	0.545	2.36	6 Aroclor 1248
4.956	440880	396944	0.900	0.67	
5.036	346311	334714	0.967	0.52	6 Aroclor 1248
5.068	130476	108115	0.829	0.19	
5.100	1080519	872652	0.808	1.64	
5.161	1584691	1341637	0.847	2.41	7 Aroclor 1254
5.212	1222906	1059731	0.867	1.86	
5.283	175369	167221	0.954	0.26	
5.309	332259	270779	0.815	0.50	
5.362	463385	415268	0.896	0.70	
5.405	879801	796004	0.905	1.34	7 Aroclor 1254
5.450	1267724	1101633	0.869	1.93	
5.478	166221	161954	0.974	0.25	
5.509	1836891	1626684	0.886	2.80	7 Aroclor 1254
5.576	132556	124743	0.941	0.20	
5.603	205451	171818	0.836	0.31	
5.674	697022	668268	0.959	1.06	
5.708	381667	316738	0.830	0.58	
5.742	458695	344372	0.751	0.69	
5.789	2507930	1988141	0.793	3.82	
5.838	80888	77566	0.959	0.12	
5.884	289367	213050	0.736	0.44	
5.930	242891	212689	0.876	0.37	
5.993	727031	692166	0.952	1.10	
6.025	967117	856927	0.886	1.47	7 Aroclor 1254
6.055	2252391	1913980	0.850	3.43	
6.122	48890	33926	0.694	0.07	
6.168	595617	355007	0.596	0.90	
6.227	166374	190974	1.148	0.25	
6.241	315687	242172	0.767	0.48	
6.299	3055630	2510939	0.822	4.66	8 Aroclor 1260
6.333	309987	282544	0.911	0.47	
6.373	122641	103863	0.847	0.18	
6.431	385731	329300	0.854	0.58	
6.484	25939	37598	1.449	0.03	
6.509	1222271	1110311	0.908	1.86	
6.534	524498	510351	0.973	0.80	
6.560	376274	330196	0.878	0.57	
6.602	76611	69270	0.904	0.11	
6.658	72285	69306	0.959	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.716	342550	306200	0.894	0.52	
6.758	491118	392732	0.800	0.74	
6.800	406195	366174	0.901	0.61	
6.838	235691	192330	0.816	0.35	
6.912	56994	59780	1.049	0.08	
6.941	595913	574467	0.964	0.90	
7.004	1228022	1163447	0.947	1.87	8 Aroclor 1260
7.034	80728	90869	1.126	0.12	
7.077	12981	15525	1.196	0.01	
7.096	11601	14588	1.257	0.01	
7.122	32879	25210	0.767	0.05	
7.251	583570	523102	0.896	0.89	8 Aroclor 1260
7.279	183565	157948	0.860	0.28	
7.338	16994	13937	0.820	0.02	
7.389	570812	485670	0.851	0.87	
7.442	544919	490237	0.900	0.83	8 Aroclor 1260
7.489	41637	23567	0.566	0.06	
7.550	28878	23782	0.824	0.04	
7.689	129682	124768	0.962	0.19	
7.725	212437	185062	0.871	0.32	
7.763	29465	26959	0.915	0.04	
7.810	224854	166912	0.742	0.34	
7.862	26838	22517	0.839	0.04	
7.899	346169	297341	0.859	0.52	8 Aroclor 1260
7.956	53768	31641	0.588	0.08	
8.048	45907	40701	0.887	0.07	
8.273	464795	406718	0.875	0.70	
8.379	29685	18413	0.620	0.04	
8.453	23982	12106	0.505	0.03	
8.570	10546733	8920333	0.846	16.09	$ 12 Decachlorobiphenyl
8.701	14322	17485	1.221	0.02	
8.723	63588	55716	0.876	0.09	
9.018	14176	11868	0.837	0.02	
9.053	18401	13148	0.715	0.02	
9.168	83103	71783	0.864	0.12	
9.568	10193	7161	0.703	0.01	
9.617	9624	6529	0.678	0.01	
9.750	18444	14059	0.762	0.02	
9.967	13262	10032	0.756	0.02	
	65540898	56827511		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818027.D
Lab Smp Id: 40157932008 Client Smp ID: AT1-170620-01-YP-09
Inj Date : 18-APR-2018 19:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932008,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
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	127796	0.23327	120	0.00- 20.00	0.00	BA
2.676	2.688	-0.012	15497	0.01120	5.6	0.00- 20.00	0.00	BA
2.789	2.789	0.000	32790	0.02965	15	0.00- 20.00	0.00	BA
2.852	2.851	0.001	62269	0.01913	9.6	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					37			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11318329	0.09180	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	1030262	0.43972	220	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	826885	0.19923	100	0.00- 20.00	80.26	BA
4.812	4.812	0.000	515252	0.25381	130	0.00- 20.00	50.01	BA
4.892	4.879	0.013	1547803	0.30726	150	0.00- 20.00	150.23	BA
5.036	5.038	-0.002	346311	0.09650	48	0.00- 20.00	33.61	BA
Average of Peak Concentrations =					130			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1584690	0.30270	150	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	879800	0.20455	100	0.00- 20.00	55.52	BA
5.509	5.510	-0.001	1836891	0.23653	120	0.00- 20.00	115.91	BA
6.024	6.027	-0.003	967117	0.19860	99	0.00- 20.00	61.03	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	3055629	0.34479	170	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	1228022	0.12263	61	0.00- 20.00	40.19	CO
7.250	7.251	-0.001	583570	0.12209	61	0.00- 20.00	19.10	CO
7.441	7.443	-0.002	544918	0.18693	94	0.00- 20.00	17.83	CO
7.898	7.901	-0.003	346169	0.13119	66	0.00- 20.00	11.33	CO
Average of Peak Concentrations =					91			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10546732	0.09626	48			

QC Flag Legend

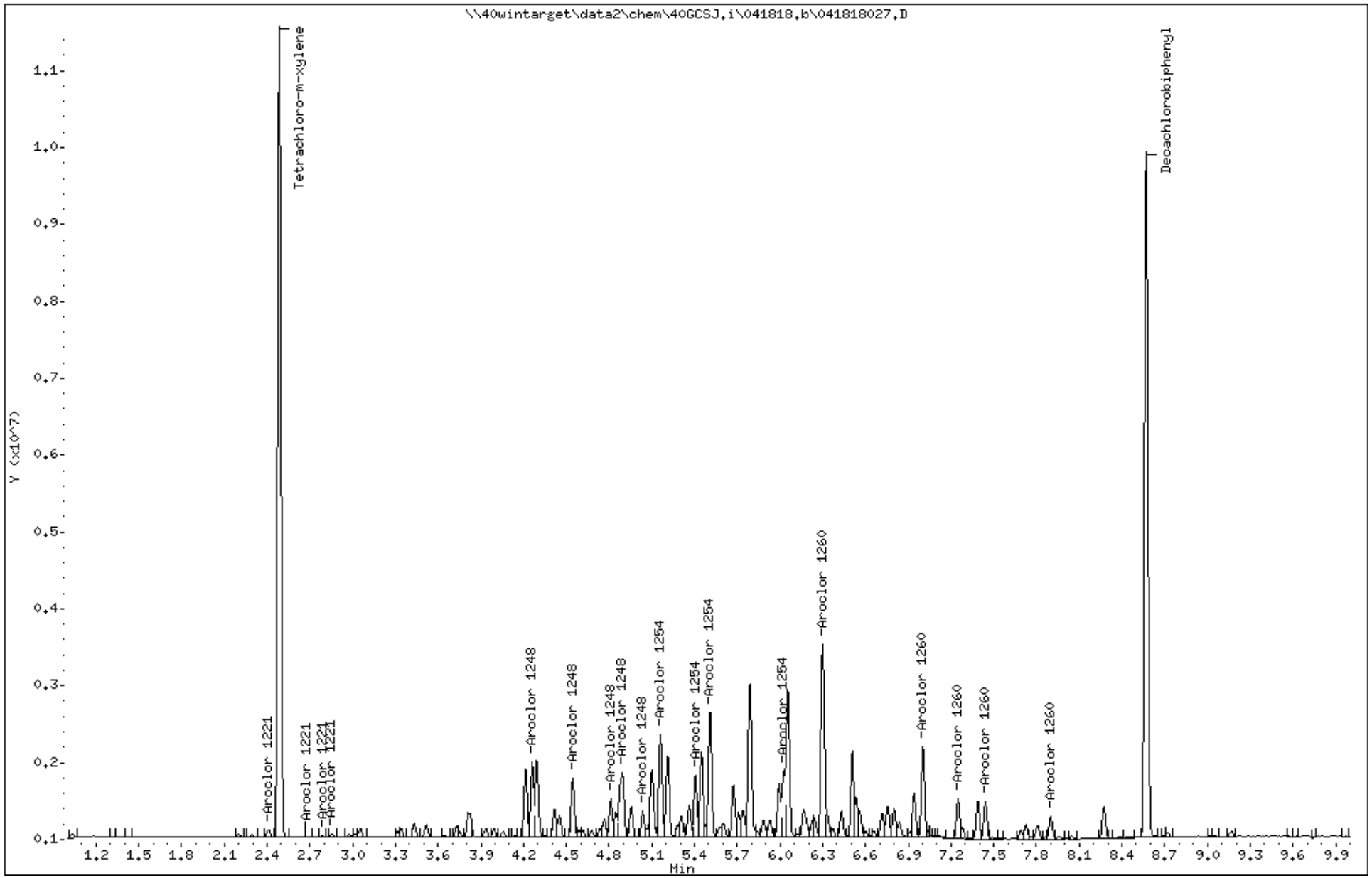
M - Compound response manually integrated.

Review Codes Legend

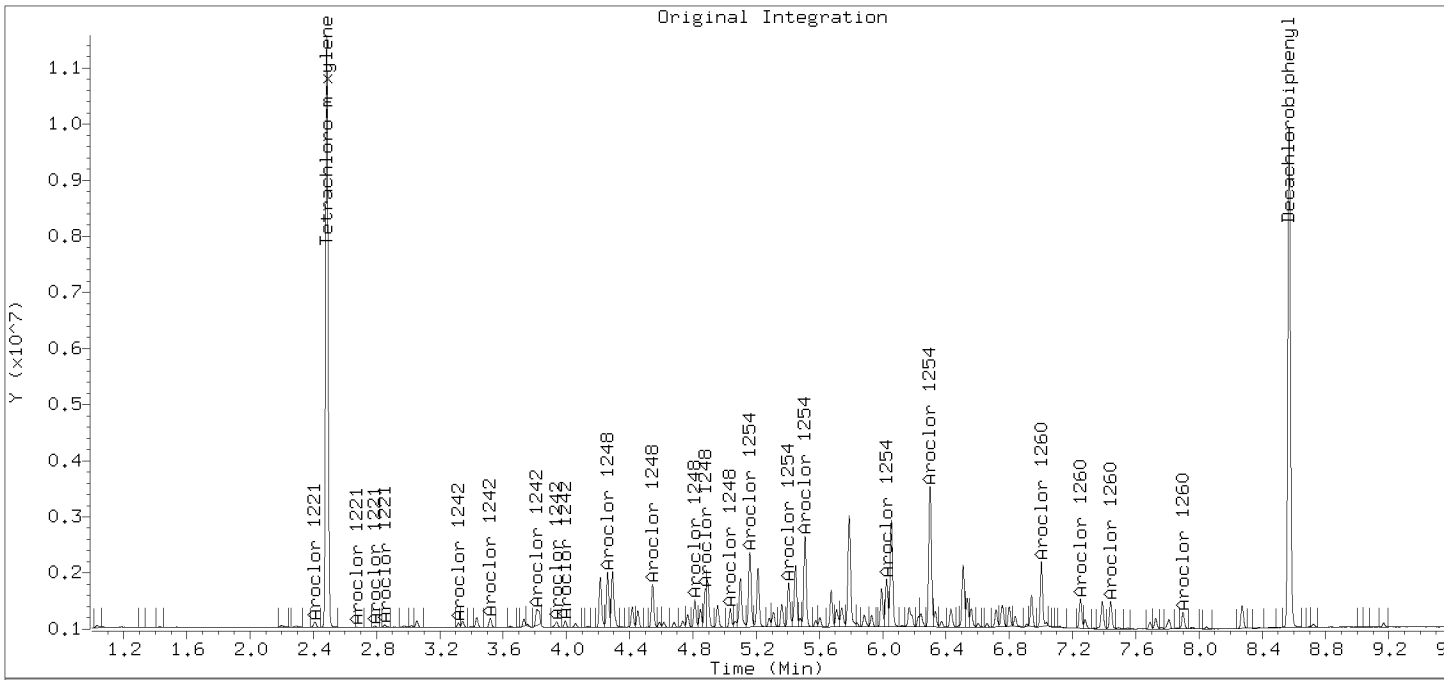
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

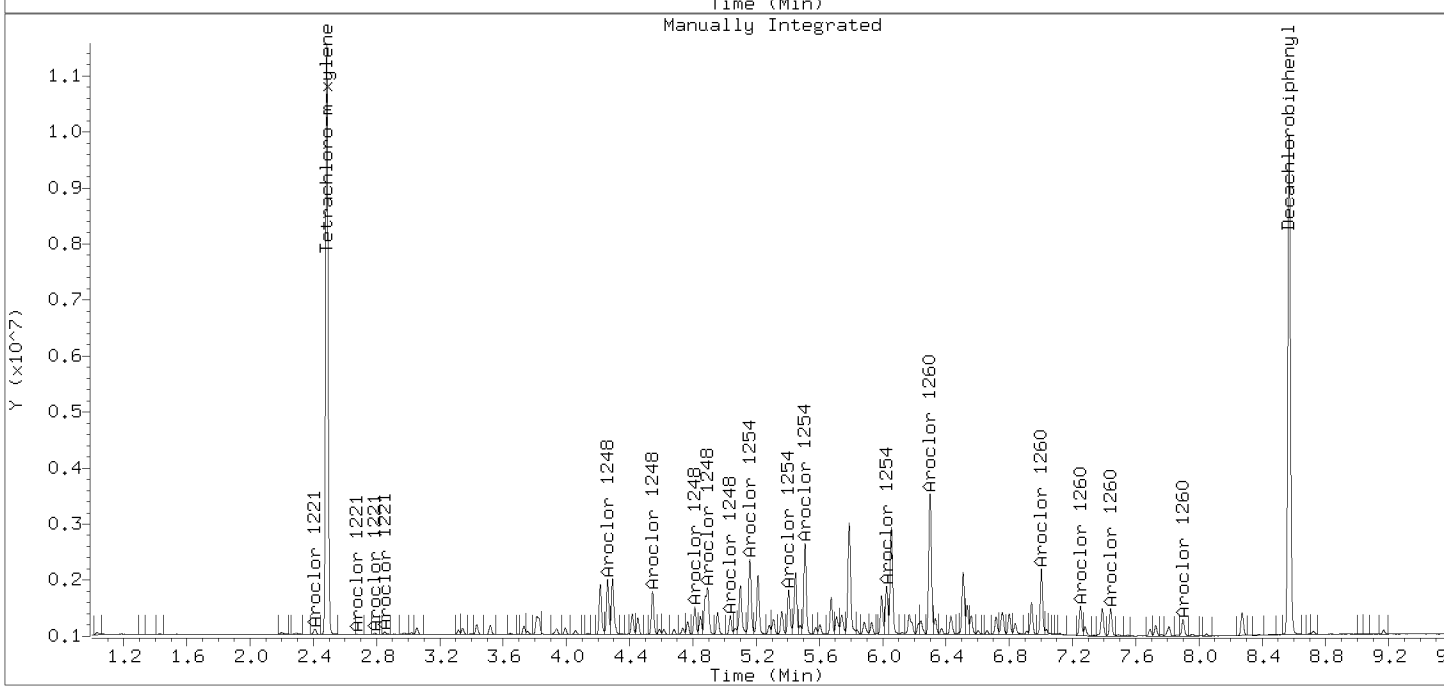
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818027.D
Date : 18-APR-2018 19:18
Client ID: AT1-170620-01-YP-09
Sample Info: 40157932008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 19:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	79106	0	
Aroclor 1016	79106	0	
Aroclor 1016	79106	0	
Aroclor 1016	79106	0	
Aroclor 1016	79106	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	53102	0	
Aroclor 1232	53102	0	
Aroclor 1232	53102	0	
Aroclor 1232	53102	0	

Aroclor 1232	53102	0	
Aroclor 1242	79106	0	
Aroclor 1242	79106	0	
Aroclor 1242	79106	0	
Aroclor 1242	79106	0	
Aroclor 1242	79106	0	
Aroclor 1248	1020592	1030262	BA
Aroclor 1248	1020592	1030262	BA
Aroclor 1248	1020592	1030262	BA
Aroclor 1248	1020592	1030262	BA
Aroclor 1248	1020592	1030262	BA
Aroclor 1254	1559759	1584690	BA
Aroclor 1254	1559759	1584690	BA
Aroclor 1254	1559759	1584690	BA
Aroclor 1254	1559759	1584690	BA
Aroclor 1254	1559759	1584690	BA
Aroclor 1260	3036639	3055629	CO
Aroclor 1260	3036639	3055629	CO
Aroclor 1260	3036639	3055629	CO
Aroclor 1260	3036639	3055629	CO
Aroclor 1260	3036639	3055629	CO
Tetrachloro-m-xylene	11297512	11318329	BA
Decachlorobiphenyl	10546732	10546732	

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SAMPLE NO.

AT1-170620-01-YP-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157932

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 40157932009

Date Analyzed: 04/18/2018 20:06

Lab File ID: 041818.B\041818030.D

Initial wt/vol: 9.9828 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)	43.9	J
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	96.2	
11097-69-1	PCB-1254 (Aroclor 1254)	73.9	
11096-82-5	PCB-1260 (Aroclor 1260)	28.8	J
1336-36-3	PCB, Total	243	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818030.D
Lab Smp Id: 40157932009 Client Smp ID: AT1-170620-01-YP-08
Inj Date : 18-APR-2018 20:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932009,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.034	13184	7759	0.588	0.02		
1.432	15571	10294	0.661	0.03		
1.537	10842	8653	0.798	0.02		
1.805	17426	11742	0.674	0.03	1 Aroclor 1221	BA
1.954	12976	8858	0.683	0.02		
2.200	68900	36697	0.533	0.14		
2.292	49424	29971	0.606	0.10		
2.410	197022	156281	0.793	0.41	1 Aroclor 1221	BA
2.485	10994758	10427886	0.948	23.95	$ 2 Tetrachloro-m-xylene	BA
2.685	13873	9938	0.716	0.02	1 Aroclor 1221	BA
2.787	35659	29975	0.841	0.07	1 Aroclor 1221	BA
2.850	65027	42651	0.656	0.13	1 Aroclor 1221	BA
2.976	64289	39331	0.612	0.13		
3.017	40818	36230	0.888	0.08		
3.055	157294	136847	0.870	0.33		
3.316	69027	65600	0.950	0.14		
3.344	86341	78453	0.909	0.18		
3.433	209204	187653	0.897	0.44		
3.518	188921	170468	0.902	0.40		
3.646	27620	22093	0.800	0.05		
3.732	146421	144001	0.983	0.31		
3.756	57583	55676	0.967	0.12		
3.813	598828	340483	0.569	1.27		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.937	120723	92401	0.765	0.25	
3.992	134328	122193	0.910	0.28	
4.059	78187	63928	0.818	0.16	
4.138	21190	15083	0.712	0.04	
4.214	880621	798739	0.907	1.87	
4.260	767215	738708	0.963	1.63	6 Aroclor 1248
4.291	821463	709280	0.863	1.74	
4.348	25538	15750	0.617	0.05	
4.416	363231	329649	0.908	0.77	
4.452	293993	255821	0.870	0.62	
4.545	593248	544847	0.918	1.26	6 Aroclor 1248
4.588	77100	68643	0.890	0.16	
4.616	112431	96711	0.860	0.23	
4.681	63453	52232	0.823	0.13	
4.735	82488	59268	0.719	0.17	
4.767	186413	170672	0.916	0.39	
4.811	390849	365354	0.935	0.83	6 Aroclor 1248
4.847	310395	295879	0.953	0.66	
4.894	1048456	530665	0.506	2.23	6 Aroclor 1248
4.956	248313	206080	0.830	0.52	
5.036	319686	275319	0.861	0.68	6 Aroclor 1248
5.100	614117	522228	0.850	1.30	
5.160	881488	772870	0.877	1.87	7 Aroclor 1254
5.212	673211	567160	0.842	1.43	
5.282	94579	86413	0.914	0.20	
5.309	224383	183050	0.816	0.47	
5.362	256862	215362	0.838	0.54	
5.406	498494	438777	0.880	1.06	7 Aroclor 1254
5.450	762180	676082	0.887	1.62	
5.477	77109	88626	1.149	0.16	
5.508	1053440	951038	0.903	2.24	7 Aroclor 1254
5.576	77349	62247	0.805	0.16	
5.603	163220	117381	0.719	0.34	
5.674	304616	270877	0.889	0.64	
5.710	246787	189241	0.767	0.52	
5.741	232832	177349	0.762	0.49	
5.788	1265073	963849	0.762	2.69	
5.839	74547	71447	0.958	0.15	
5.883	189870	115633	0.609	0.40	
5.930	134750	104725	0.777	0.28	
5.993	345616	310607	0.899	0.73	
6.025	501144	442846	0.884	1.06	7 Aroclor 1254
6.055	1183433	987940	0.835	2.51	
6.167	313459	183145	0.584	0.66	
6.242	262016	126447	0.483	0.55	
6.299	1397559	1171316	0.838	2.97	7 Aroclor 1254
6.332	155631	141384	0.908	0.33	
6.374	90536	58871	0.650	0.19	
6.432	216519	149312	0.690	0.46	
6.509	528320	477036	0.903	1.12	
6.534	240456	218661	0.909	0.51	
6.559	191483	147321	0.769	0.40	
6.606	55556	32861	0.591	0.11	
6.660	54131	38040	0.703	0.11	
6.716	206884	169596	0.820	0.44	
6.756	256887	198054	0.771	0.54	
6.801	197080	171903	0.872	0.41	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.837	118939	92574	0.778	0.25	
6.911	33804	31482	0.931	0.07	
6.941	299605	257255	0.859	0.63	
7.003	502828	453246	0.901	1.06	8 Aroclor 1260
7.033	43895	42491	0.968	0.09	
7.120	51686	21973	0.425	0.10	
7.250	247748	207902	0.839	0.52	8 Aroclor 1260
7.281	100522	72525	0.721	0.21	
7.338	30152	20323	0.674	0.06	
7.388	208464	181778	0.872	0.44	
7.442	223996	181679	0.811	0.47	8 Aroclor 1260
7.494	43873	19135	0.436	0.09	
7.549	17210	14052	0.817	0.03	
7.577	12258	11833	0.965	0.02	
7.625	22466	14309	0.637	0.04	
7.662	11015	13259	1.204	0.02	
7.692	45170	42681	0.945	0.09	
7.726	105892	87346	0.825	0.22	
7.762	22868	17258	0.755	0.04	
7.810	116362	78258	0.673	0.24	
7.859	18742	15060	0.804	0.03	
7.899	135281	109965	0.813	0.28	8 Aroclor 1260
7.960	20080	14559	0.725	0.04	
8.046	49201	41133	0.836	0.10	
8.273	211639	184140	0.870	0.45	
8.375	11244	11144	0.991	0.02	
8.569	10112729	8684883	0.859	21.51	$ 12 Decachlorobiphenyl
8.725	29759	25199	0.847	0.06	
9.054	16520	11686	0.707	0.03	
9.166	36102	28694	0.795	0.07	
	47001996	40452279		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818030.D
Lab Smp Id: 40157932009 Client Smp ID: AT1-170620-01-YP-08
Inj Date : 18-APR-2018 20:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932009,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.983	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			
1.804	1.804	0.000	17425	0.01673	8.4	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	197021	0.35963	180	0.00- 20.00	1130.68	BA
2.684	2.688	-0.004	13873	0.01003	5.0	0.00- 20.00	79.62	BA
2.786	2.789	-0.003	35659	0.03225	16	0.00- 20.00	204.64	BA
2.849	2.851	-0.002	65026	0.01997	10	0.00- 20.00	373.18	BA
Average of Peak Concentrations =					44			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10994758	0.08917	45		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	767214	0.32745	160	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	593247	0.14294	72	0.00- 20.00	77.32	BA
4.810	4.812	-0.002	390849	0.19253	96	0.00- 20.00	50.94	BA
4.893	4.879	0.014	1048456	0.20813	100	0.00- 20.00	136.66	BA
5.035	5.038	-0.003	319686	0.08909	45	0.00- 20.00	41.67	BA
Average of Peak Concentrations =					96			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	881488	0.16838	84	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	498494	0.11590	58	0.00- 20.00	56.55	BA
5.508	5.510	-0.002	1053440	0.13565	68	0.00- 20.00	119.51	BA
6.024	6.027	-0.003	501144	0.10291	52	0.00- 20.00	56.85	BA
6.298	6.299	-0.001	1397558	0.21477	110	0.00- 20.00	158.55	BA
Average of Peak Concentrations =					74			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	502827	0.05021	25	0.00- 20.00	35.98	BA
7.249	7.251	-0.002	247747	0.05183	26	0.00- 20.00	17.73	BA
7.441	7.443	-0.002	223996	0.07684	38	0.00- 20.00	16.03	BA
7.898	7.901	-0.003	135281	0.05127	26	0.00- 20.00	9.68	BA
Average of Peak Concentrations =					29			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10112729	0.09230	46			

QC Flag Legend

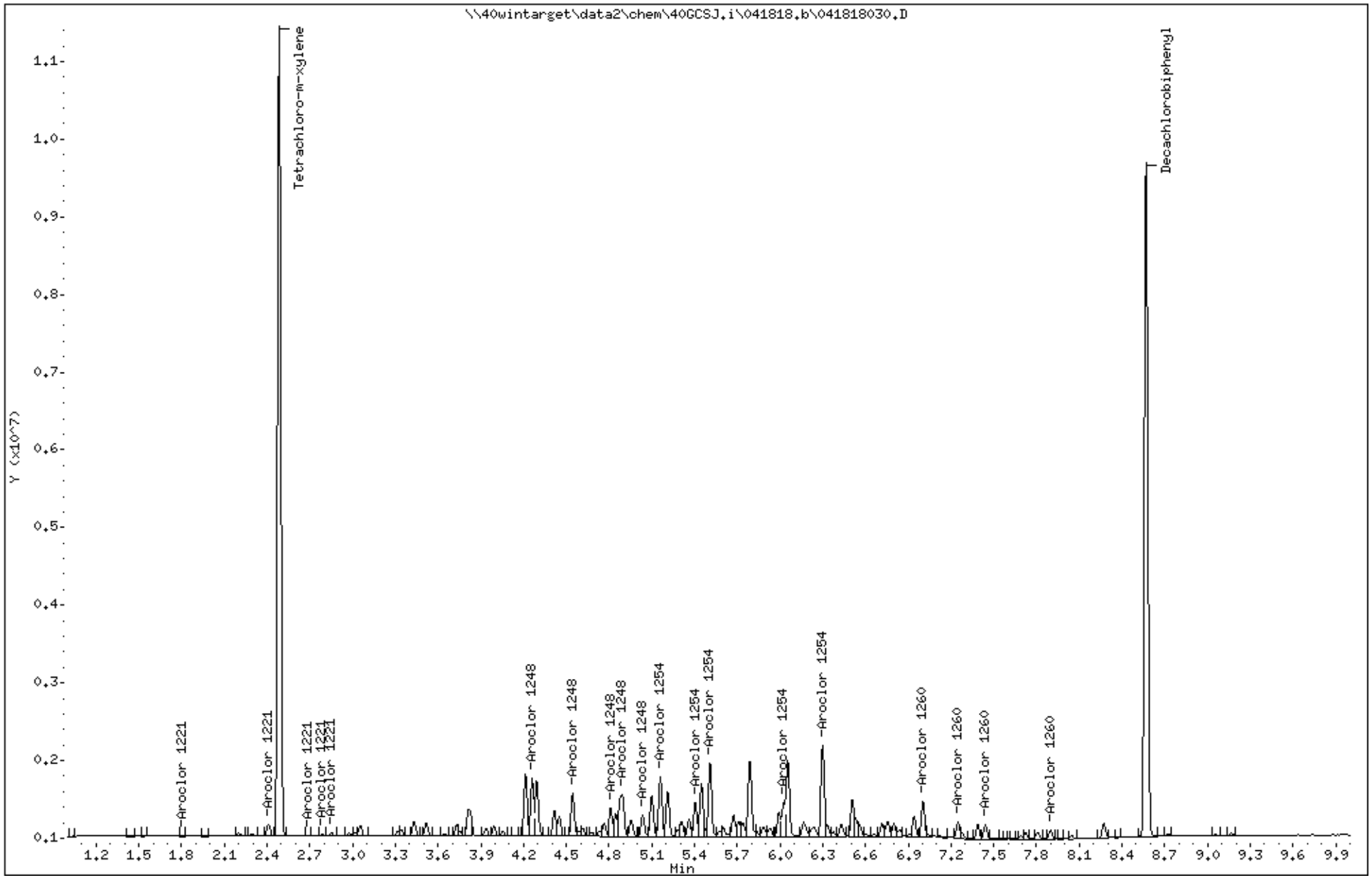
M - Compound response manually integrated.

Review Codes Legend

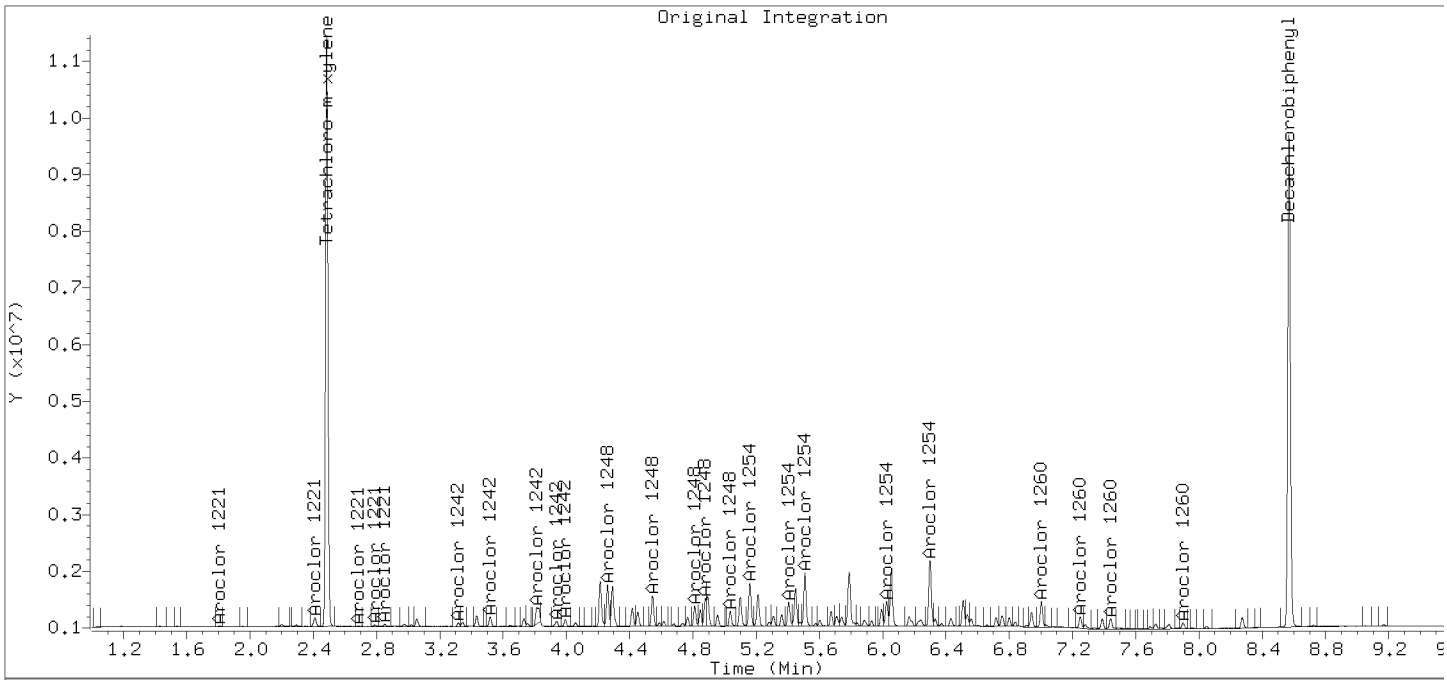
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

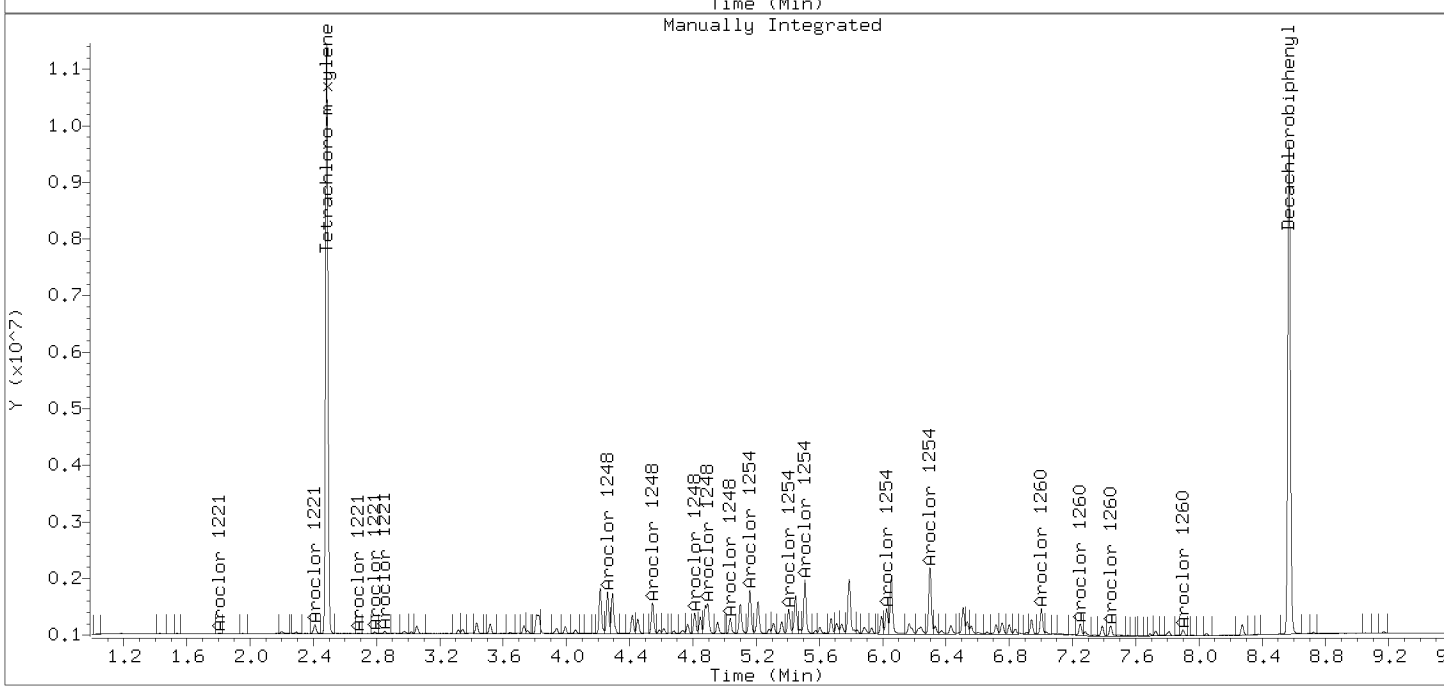
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818030.D
Date : 18-APR-2018 20:06
Client ID: AT1-170620-01-YP-08
Sample Info: 40157932009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 20:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	64622	0	
Aroclor 1016	64622	0	
Aroclor 1016	64622	0	
Aroclor 1016	64622	0	
Aroclor 1016	64622	0	
Aroclor 1221	15068	17425	BA
Aroclor 1221	15068	17425	BA
Aroclor 1221	15068	17425	BA
Aroclor 1221	15068	17425	BA
Aroclor 1221	15068	17425	BA
Aroclor 1232	57811	0	
Aroclor 1232	57811	0	
Aroclor 1232	57811	0	
Aroclor 1232	57811	0	

Aroclor 1232	57811	0	
Aroclor 1242	64622	0	
Aroclor 1242	64622	0	
Aroclor 1242	64622	0	
Aroclor 1242	64622	0	
Aroclor 1242	64622	0	
Aroclor 1248	755583	767214	BA
Aroclor 1248	755583	767214	BA
Aroclor 1248	755583	767214	BA
Aroclor 1248	755583	767214	BA
Aroclor 1248	755583	767214	BA
Aroclor 1254	850389	881488	BA
Aroclor 1254	850389	881488	BA
Aroclor 1254	850389	881488	BA
Aroclor 1254	850389	881488	BA
Aroclor 1254	850389	881488	BA
Aroclor 1260	1348554	0	BA
Aroclor 1260	1348554	0	BA
Aroclor 1260	1348554	0	BA
Aroclor 1260	1348554	0	BA
Aroclor 1260	1348554	0	BA
Tetrachloro-m-xylene	10967695	10994758	BA
Decachlorobiphenyl	10112729	10112729	

==========

SAMPLE NO.

AT1-170620-01-YP-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157932

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 40157932010

Date Analyzed: 04/18/2018 20:21

Lab File ID: 041818.B\041818031.D

Initial wt/vol: 9.9635 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)	99.6	
11097-69-1	PCB-1254 (Aroclor 1254)	61.8	
11096-82-5	PCB-1260 (Aroclor 1260)	50.7	
1336-36-3	PCB, Total	212	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818031.D
Lab Smp Id: 40157932010 Client Smp ID: AT1-170620-01-YP-07
Inj Date : 18-APR-2018 20:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932010,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.804	14387	11296	0.785	0.02		
2.294	33793	26731	0.791	0.06		
2.410	183114	141010	0.770	0.36		
2.485	11743750	10821661	0.921	23.93	$ 2 Tetrachloro-m-xylene	
2.789	38288	29371	0.767	0.07		
2.850	64993	52165	0.803	0.12		
2.977	48598	26363	0.542	0.09		
3.020	44198	39906	0.903	0.08		
3.054	143089	121046	0.846	0.28		
3.318	95429	90709	0.951	0.18		
3.343	128074	120359	0.940	0.25		
3.402	30803	24215	0.786	0.06		
3.433	191968	177403	0.924	0.38		
3.518	213812	192920	0.902	0.42		
3.648	25731	20452	0.795	0.05		
3.693	26867	25599	0.953	0.05		
3.731	194156	148702	0.766	0.38		
3.813	327515	364486	1.113	0.65		
3.825	366115	364336	0.995	0.72		
3.938	143210	110033	0.768	0.28		
3.993	133445	126540	0.948	0.26		
4.057	91172	69845	0.766	0.18		
4.133	18216	16793	0.922	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	954293	884821	0.927	1.89	
4.260	845689	801984	0.948	1.68	6 Aroclor 1248
4.291	1011558	874931	0.865	2.01	
4.346	24678	16972	0.688	0.04	
4.416	365816	344959	0.943	0.72	
4.452	289727	252536	0.872	0.57	
4.545	729793	673968	0.924	1.45	6 Aroclor 1248
4.588	64741	58518	0.904	0.12	
4.617	101814	80038	0.786	0.20	
4.681	59576	52941	0.889	0.11	
4.737	79154	61896	0.782	0.15	
4.768	143179	132123	0.923	0.28	
4.811	330074	304258	0.922	0.65	6 Aroclor 1248
4.846	286913	271451	0.946	0.57	
4.893	1082342	615111	0.568	2.15	6 Aroclor 1248
4.957	257563	226991	0.881	0.51	
5.036	278659	239535	0.860	0.55	6 Aroclor 1248
5.100	597272	515513	0.863	1.18	
5.161	810445	719867	0.888	1.61	7 Aroclor 1254
5.212	712313	614479	0.863	1.41	
5.283	101307	90946	0.898	0.20	
5.310	223079	189806	0.851	0.44	
5.362	243276	207556	0.853	0.48	
5.406	451401	408588	0.905	0.89	7 Aroclor 1254
5.449	973047	906065	0.931	1.93	
5.476	81720	85182	1.042	0.16	
5.509	1076963	960691	0.892	2.14	7 Aroclor 1254
5.577	82559	69090	0.837	0.16	
5.603	109744	86733	0.790	0.21	
5.674	342744	317600	0.927	0.68	
5.708	236469	193816	0.820	0.47	
5.741	243126	179342	0.738	0.48	
5.787	1102000	900825	0.817	2.19	
5.822	166778	110928	0.665	0.33	
5.885	176516	111287	0.630	0.35	
5.931	127255	106786	0.839	0.25	
5.993	373499	339144	0.908	0.74	
6.025	459998	404221	0.879	0.91	7 Aroclor 1254
6.054	1216889	1067084	0.877	2.42	
6.167	329576	185860	0.564	0.65	
6.226	72267	95171	1.317	0.14	
6.241	180803	130779	0.723	0.35	
6.298	1541803	1239801	0.804	3.06	8 Aroclor 1260
6.332	147046	130672	0.889	0.29	
6.374	64616	50708	0.785	0.12	
6.431	233349	172273	0.738	0.46	
6.482	21218	27045	1.275	0.04	
6.508	671713	620912	0.924	1.33	
6.534	264176	251449	0.952	0.52	
6.560	225646	196132	0.869	0.44	
6.659	47968	43237	0.901	0.09	
6.716	233302	193858	0.831	0.46	
6.756	283596	230691	0.813	0.56	
6.800	227642	200490	0.881	0.45	
6.838	151881	125000	0.823	0.30	
6.911	39693	38304	0.965	0.07	
6.941	303044	281041	0.927	0.60	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.004	674943	615767	0.912	1.34	8 Aroclor 1260
7.033	60426	51898	0.859	0.12	
7.097	11289	10609	0.940	0.02	
7.120	36646	21392	0.584	0.07	
7.251	311652	271371	0.871	0.62	8 Aroclor 1260
7.281	117501	89472	0.761	0.23	
7.334	26242	17671	0.673	0.05	
7.388	325392	275037	0.845	0.64	
7.442	328875	283830	0.863	0.65	8 Aroclor 1260
7.545	17623	15944	0.905	0.03	
7.620	23032	16737	0.727	0.04	
7.690	70234	69569	0.991	0.13	
7.726	160929	138421	0.860	0.32	
7.758	22315	18486	0.828	0.04	
7.808	134097	83906	0.626	0.26	
7.863	19090	15255	0.799	0.03	
7.899	226989	190667	0.840	0.45	8 Aroclor 1260
7.961	34225	20541	0.600	0.06	
8.048	48793	43204	0.885	0.09	
8.273	328740	297969	0.906	0.65	
8.375	21859	14510	0.664	0.04	
8.447	23909	11850	0.496	0.04	
8.569	10903069	9597093	0.880	21.70	$ 12 Decachlorobiphenyl
8.699	11341	10989	0.969	0.02	
8.725	42578	37130	0.872	0.08	
8.942	11028	7710	0.699	0.02	
9.052	17497	12112	0.692	0.03	
9.165	63773	53583	0.840	0.12	
	50228113	44106669		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818031.D
Lab Smp Id: 40157932010 Client Smp ID: AT1-170620-01-YP-07
Inj Date : 18-APR-2018 20:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932010,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11743750	0.09525	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.259	4.261	-0.002	845688	0.36095	180	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	729792	0.17584	88	0.00- 20.00	86.30	BA
4.811	4.812	-0.001	330073	0.16259	82	0.00- 20.00	39.03	BA
4.893	4.879	0.014	1082341	0.21486	110	0.00- 20.00	127.98	BA
5.035	5.038	-0.003	278659	0.07765	39	0.00- 20.00	32.95	BA
Average of Peak Concentrations =					100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	810444	0.15481	78	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	451400	0.10495	53	0.00- 20.00	55.70	BA
5.508	5.510	-0.002	1076962	0.13868	70	0.00- 20.00	132.89	BA
6.025	6.027	-0.002	459997	0.09446	47	0.00- 20.00	56.76	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					62			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	1541802	0.17397	87	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	674943	0.06740	34	0.00- 20.00	43.78	BA
7.250	7.251	-0.001	311651	0.06520	33	0.00- 20.00	20.21	BA
7.442	7.443	-0.001	328875	0.11282	57	0.00- 20.00	21.33	BA
7.898	7.901	-0.003	226988	0.08602	43	0.00- 20.00	14.72	BA
Average of Peak Concentrations =					51			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10903068	0.09952	50			

QC Flag Legend

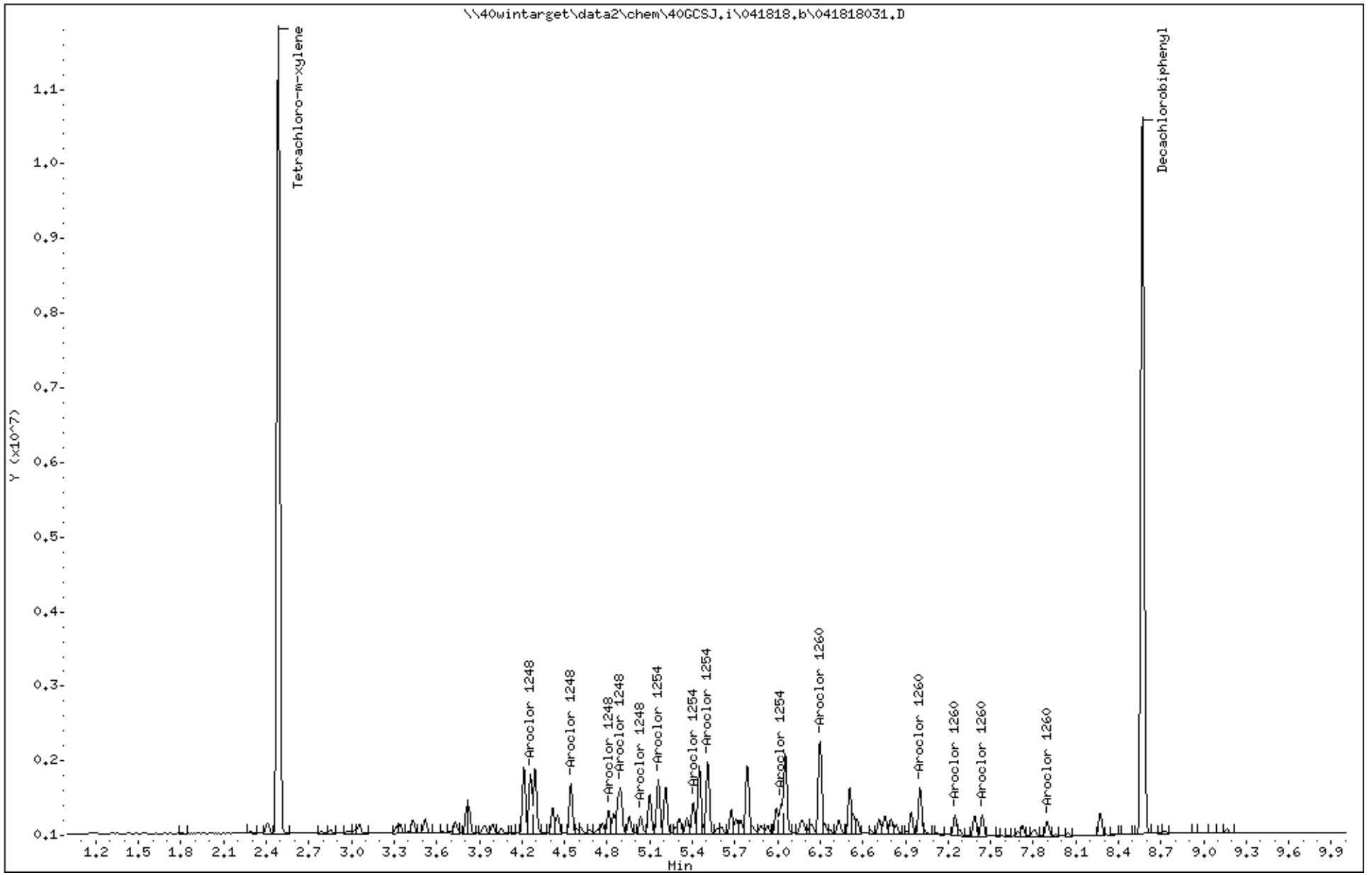
M - Compound response manually integrated.

Review Codes Legend

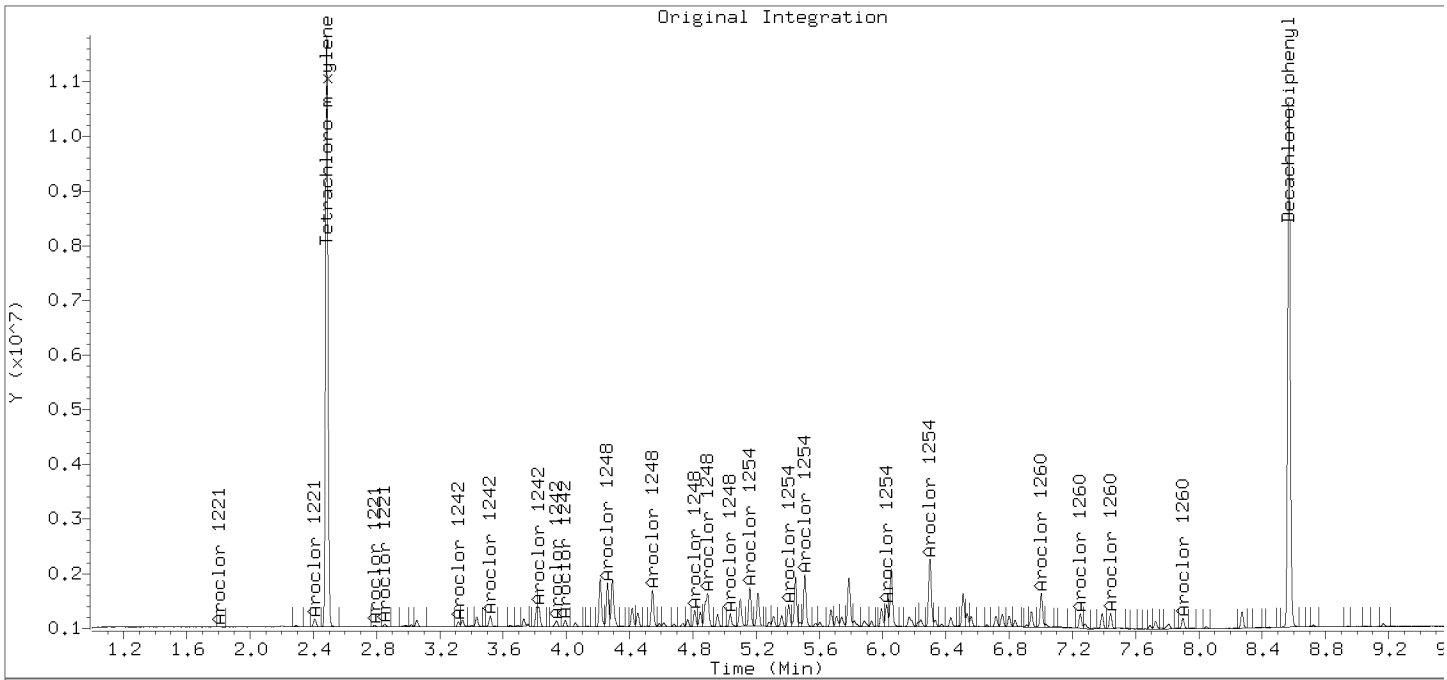
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

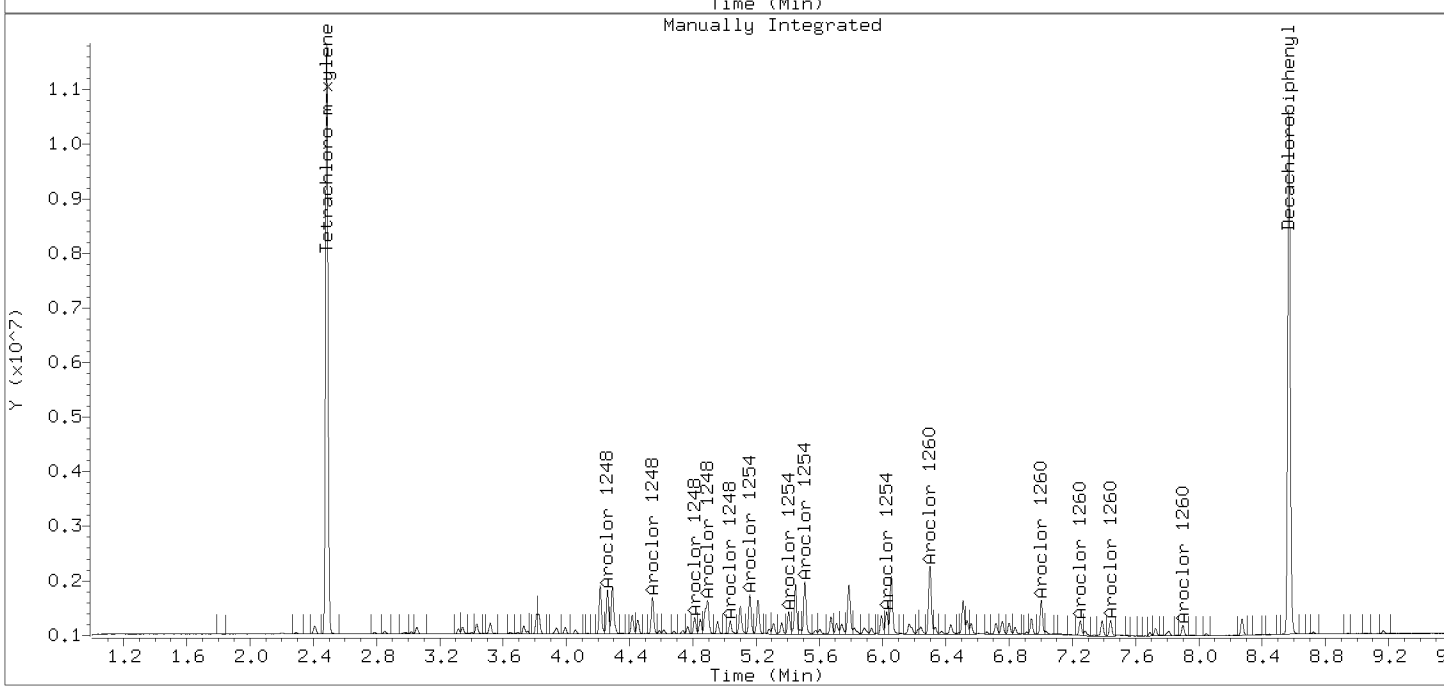
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818031.D
Date : 18-APR-2018 20:21
Client ID: AT1-170620-01-YP-07
Sample Info: 40157932010,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 20:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	95429	0	
Aroclor 1016	95429	0	
Aroclor 1016	95429	0	
Aroclor 1016	95429	0	
Aroclor 1016	95429	0	
Aroclor 1221	14386	0	
Aroclor 1221	14386	0	
Aroclor 1221	14386	0	
Aroclor 1221	14386	0	
Aroclor 1221	14386	0	
Aroclor 1232	64992	0	
Aroclor 1232	64992	0	
Aroclor 1232	64992	0	
Aroclor 1232	64992	0	

Aroclor 1232	64992	0	
Aroclor 1242	95429	0	
Aroclor 1242	95429	0	
Aroclor 1242	95429	0	
Aroclor 1242	95429	0	
Aroclor 1242	95429	0	
Aroclor 1248	837326	845688	BA
Aroclor 1248	837326	845688	BA
Aroclor 1248	837326	845688	BA
Aroclor 1248	837326	845688	BA
Aroclor 1248	837326	845688	BA
Aroclor 1254	772100	810444	BA
Aroclor 1254	772100	810444	BA
Aroclor 1254	772100	810444	BA
Aroclor 1254	772100	810444	BA
Aroclor 1254	772100	810444	BA
Aroclor 1260	1515753	1541802	BA
Aroclor 1260	1515753	1541802	BA
Aroclor 1260	1515753	1541802	BA
Aroclor 1260	1515753	1541802	BA
Aroclor 1260	1515753	1541802	BA
Tetrachloro-m-xylene	11743750	11743750	
Decachlorobiphenyl	10903068	10903068	

==========

SAMPLE NO.

AT1-170620-01-YP-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157932

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 40157932011

Date Analyzed: 04/18/2018 20:37

Lab File ID: 041818.B\041818032.D

Initial wt/vol: 10.0169 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)	59.2	
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)	230	
11097-69-1	PCB-1254 (Aroclor 1254)	157	
11096-82-5	PCB-1260 (Aroclor 1260)	153	
1336-36-3	PCB, Total	600	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818032.D
Lab Smp Id: 40157932011 Client Smp ID: AT1-170620-01-YP-06
Inj Date : 18-APR-2018 20:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932011,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.039	11060	8525	0.771	0.01			
1.072	11293	8737	0.774	0.01			
1.429	10626	10046	0.945	0.01			
1.806	26516	15614	0.589	0.02		1 Aroclor 1221	BA
1.955	20938	12935	0.618	0.02			
2.174	11376	12831	1.128	0.01			
2.196	63659	34974	0.549	0.06			
2.291	25918	15922	0.614	0.02			
2.409	263800	212957	0.807	0.27		1 Aroclor 1221	BA
2.484	12559801	11913547	0.949	13.82	$	2 Tetrachloro-m-xylene	BA
2.685	21921	13244	0.604	0.02		1 Aroclor 1221	BA
2.787	45935	38649	0.841	0.04		1 Aroclor 1221	BA
2.850	93520	68656	0.734	0.09		1 Aroclor 1221	BA
2.974	106821	59707	0.559	0.11			
3.019	77570	73626	0.949	0.08			
3.054	219548	197483	0.899	0.23			
3.318	197572	188805	0.956	0.20			
3.344	227792	204057	0.896	0.23			
3.433	384431	344574	0.896	0.40			
3.518	489763	415221	0.848	0.51			
3.643	51487	41322	0.803	0.05			
3.731	343603	334166	0.973	0.36			
3.755	147483	146981	0.997	0.15			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.813	738959	885868	1.199	0.77	
3.825	990912	937088	0.946	1.04	
3.937	275866	228692	0.829	0.29	
3.992	291171	273119	0.938	0.30	
4.058	167034	149631	0.896	0.17	
4.135	29466	25909	0.879	0.03	
4.214	2206492	1986856	0.900	2.32	
4.260	1993815	1873851	0.940	2.09	6 Aroclor 1248
4.291	2535465	2180957	0.860	2.66	
4.348	42904	32549	0.759	0.04	
4.416	858032	818724	0.954	0.90	
4.451	658358	612609	0.931	0.69	
4.504	14548	11084	0.762	0.01	
4.544	1619321	1487176	0.918	1.70	6 Aroclor 1248
4.588	147096	139741	0.950	0.15	
4.616	193015	176386	0.914	0.20	
4.651	14183	17888	1.261	0.01	
4.679	129237	115973	0.897	0.13	
4.735	188498	158286	0.840	0.19	
4.767	265814	253743	0.955	0.27	
4.812	805015	769380	0.956	0.84	6 Aroclor 1248
4.847	643040	614626	0.956	0.67	
4.893	2519160	1422773	0.565	2.65	6 Aroclor 1248
4.956	597852	541048	0.905	0.62	
5.001	23020	21517	0.935	0.02	
5.036	596882	568460	0.952	0.62	6 Aroclor 1248
5.056	41577	67705	1.628	0.04	
5.100	1479350	1283245	0.867	1.55	
5.161	2106636	1764978	0.838	2.21	7 Aroclor 1254
5.212	1973583	1705985	0.864	2.07	
5.252	51458	50426	0.980	0.05	
5.282	256615	244284	0.952	0.27	
5.310	566806	489441	0.864	0.59	
5.362	594316	555055	0.934	0.62	
5.405	1125664	1016260	0.903	1.18	7 Aroclor 1254
5.450	2895509	2654042	0.917	3.04	
5.477	173943	192895	1.109	0.18	
5.508	2727407	2413506	0.885	2.87	7 Aroclor 1254
5.576	226104	207679	0.919	0.23	
5.603	218850	188549	0.862	0.23	
5.673	887416	849345	0.957	0.93	
5.708	595823	479519	0.805	0.62	
5.742	609246	462271	0.759	0.64	
5.787	2929465	2412595	0.824	3.08	
5.820	352536	311891	0.885	0.37	
5.882	427292	271703	0.636	0.44	
5.931	286017	246024	0.860	0.30	
5.963	21755	25481	1.171	0.02	
5.991	1048612	983469	0.938	1.10	
6.025	1180857	1046060	0.886	1.24	7 Aroclor 1254
6.054	3534231	3086001	0.873	3.72	
6.168	863547	544386	0.630	0.90	
6.225	216352	257674	1.191	0.22	
6.241	460346	350107	0.761	0.48	
6.298	4347996	3636388	0.836	4.57	8 Aroclor 1260
6.332	397371	364963	0.918	0.41	
6.372	137044	119932	0.875	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.431	529358	431811	0.816	0.55	
6.509	1983361	1726648	0.871	2.08	
6.533	746663	750880	1.006	0.78	
6.559	716587	656806	0.917	0.75	
6.603	55524	46493	0.837	0.05	
6.658	128040	114311	0.893	0.13	
6.717	676743	621742	0.919	0.71	
6.756	788781	668936	0.848	0.83	
6.800	630644	587901	0.932	0.66	
6.837	380462	314201	0.826	0.40	
6.912	114417	112625	0.984	0.12	
6.940	997437	962934	0.965	1.05	
7.002	2331937	2162713	0.927	2.45	8 Aroclor 1260
7.033	234333	156122	0.666	0.24	
7.096	6154	9814	1.595	0.00	
7.120	51764	44474	0.859	0.05	
7.250	945230	863226	0.913	0.99	8 Aroclor 1260
7.280	278936	236594	0.848	0.29	
7.335	21805	20509	0.941	0.02	
7.388	1006831	850508	0.845	1.05	
7.441	1006272	898978	0.893	1.05	8 Aroclor 1260
7.492	73374	40842	0.557	0.07	
7.527	17616	21821	1.239	0.01	
7.550	65191	46316	0.710	0.06	
7.689	230613	210287	0.912	0.24	
7.726	352968	295437	0.837	0.37	
7.760	50400	41252	0.818	0.05	
7.810	347986	237309	0.682	0.36	
7.863	37457	31465	0.840	0.03	
7.899	713456	646933	0.907	0.75	8 Aroclor 1260
7.960	101471	56211	0.554	0.10	
8.048	125264	114640	0.915	0.13	
8.273	790147	713459	0.903	0.83	
8.375	56339	31129	0.553	0.05	
8.450	48974	24924	0.509	0.05	
8.570	11262196	9726323	0.864	11.85	$ 12 Decachlorobiphenyl
8.700	29165	30276	1.038	0.03	
8.725	133420	117536	0.881	0.14	
8.835	12714	10974	0.863	0.01	
9.051	30139	24667	0.818	0.03	
9.166	158664	142082	0.895	0.16	
9.403	9635	6914	0.718	0.01	
9.737	15395	11769	0.764	0.01	
	94985177	83779164		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818032.D
Lab Smp Id: 40157932011 Client Smp ID: AT1-170620-01-YP-06
Inj Date : 18-APR-2018 20:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157932011,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.806	1.804	0.002	26515	0.02546	13	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	263800	0.48152	240	0.00- 20.00	994.91	BA
2.685	2.688	-0.003	21921	0.01585	7.9	0.00- 20.00	82.67	BA
2.786	2.789	-0.003	45935	0.04154	21	0.00- 20.00	173.24	BA
2.849	2.851	-0.002	93519	0.02873	14	0.00- 20.00	352.70	BA
Average of Peak Concentrations =					59			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12559800	0.10187	51		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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

    4 Aroclor 1232                                CAS #: 1114-16-5

Operator disabled compound identification.
-------------------------------------------------------------------------------
    5 Aroclor 1016                                CAS #: 12674-11-2

Operator disabled compound identification.
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.260    4.261   -0.001         1993815 0.85098      420   0.00-  20.00   100.00(M)      CO
4.544    4.546   -0.002         1619321 0.39017      190   0.00-  20.00    81.22         CO
4.812    4.812    0.000          805014 0.39654      200   0.00-  20.00    40.38         CO
4.892    4.879    0.013         2519160 0.50009      250   0.00-  20.00   126.35         CO
5.035    5.038   -0.003          596882 0.16633       83   0.00-  20.00    29.94         CO
               Average of Peak Concentrations =      230
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.160    5.162   -0.002         2106635 0.40239      200   0.00-  20.00   100.00(M)      BA
5.405    5.408   -0.003         1125664 0.26172      130   0.00-  20.00    53.43         BA
5.508    5.510   -0.002         2727406 0.35120      180   0.00-  20.00   129.47         BA
6.025    6.027   -0.002         1180857 0.24249      120   0.00-  20.00    56.05         BA
6.299    6.299    0.000               0    0.00     0.00   0.00-  20.00     0.00         BA
               Average of Peak Concentrations =      160
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.298    6.300   -0.002         4347996 0.49061      240   0.00-  20.00   100.00(M)      BA
7.002    7.006   -0.004         2331937 0.23286      120   0.00-  20.00    53.63         BA
7.249    7.251   -0.002          945230 0.19776       99   0.00-  20.00    21.74         BA
7.441    7.443   -0.002         1006271 0.34519      170   0.00-  20.00    23.14         BA
7.898    7.901   -0.003          713456 0.27038      130   0.00-  20.00    16.41         BA
               Average of Peak Concentrations =      150
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.570    8.571   -0.001        11262196 0.10279       51
-------------------------------------------------------------------------------
```

QC Flag Legend

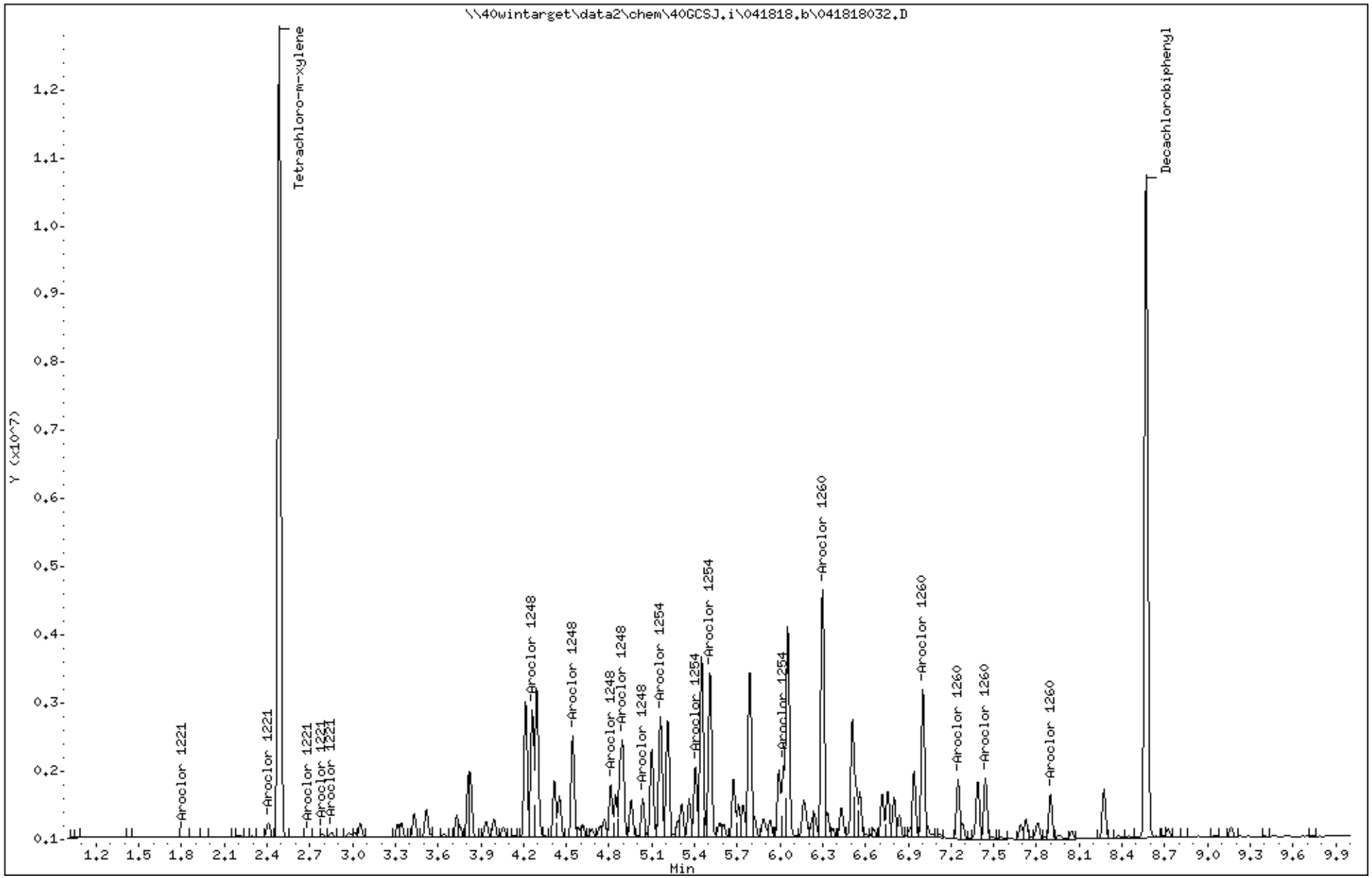
M - Compound response manually integrated.

Review Codes Legend

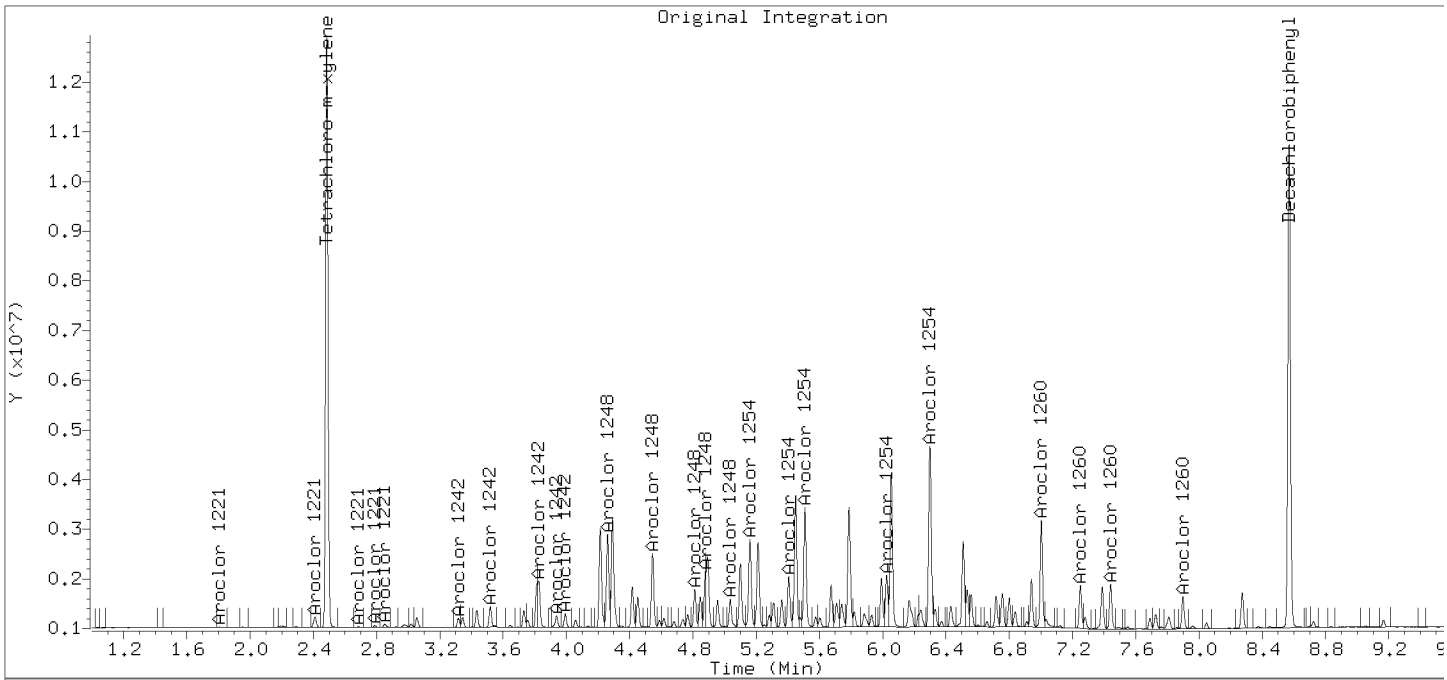
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

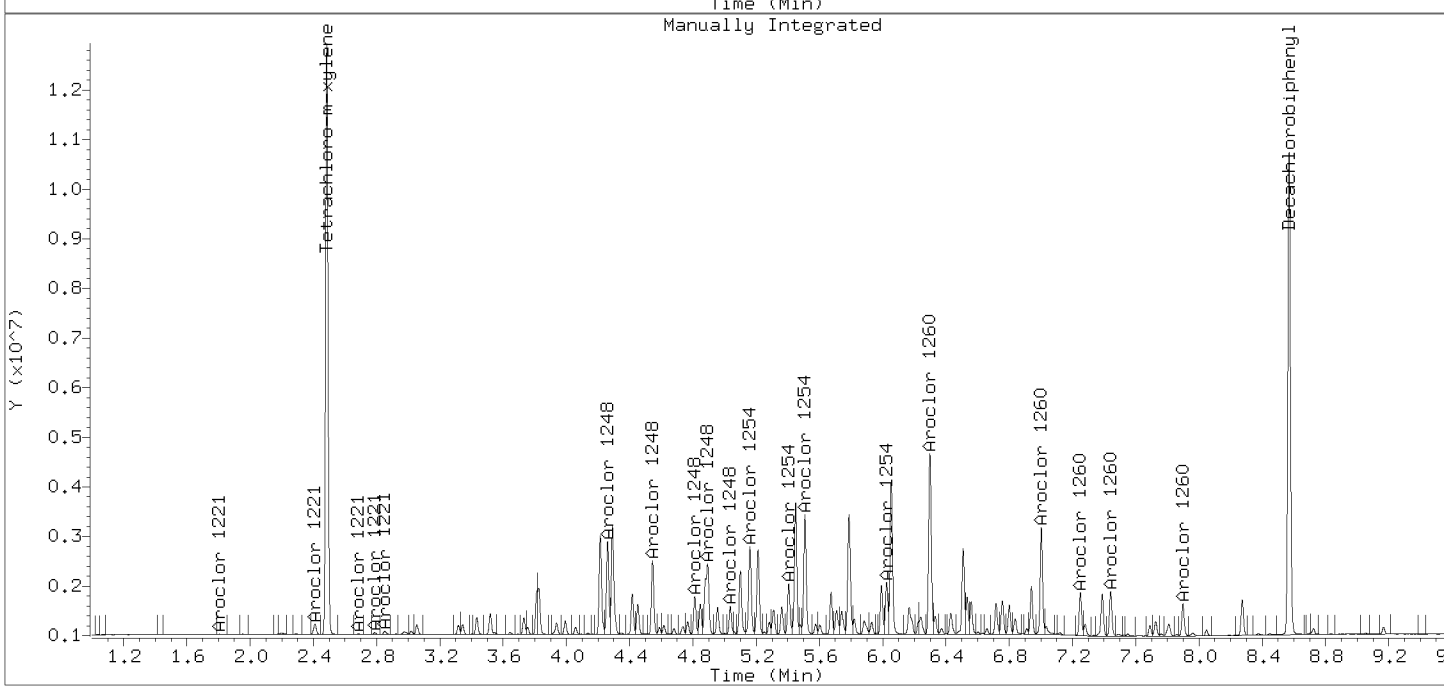
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818032.D
Date : 18-APR-2018 20:37
Client ID: AT1-170620-01-YP-06
Sample Info: 40157932011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 20:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157932011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	187508	0	
Aroclor 1016	187508	0	
Aroclor 1016	187508	0	
Aroclor 1016	187508	0	
Aroclor 1016	187508	0	
Aroclor 1221	21517	26515	BA
Aroclor 1221	21517	26515	BA
Aroclor 1221	21517	26515	BA
Aroclor 1221	21517	26515	BA
Aroclor 1221	21517	26515	BA
Aroclor 1232	82939	0	
Aroclor 1232	82939	0	
Aroclor 1232	82939	0	
Aroclor 1232	82939	0	

Aroclor 1232	82939	0	
Aroclor 1242	187508	0	
Aroclor 1242	187508	0	
Aroclor 1242	187508	0	
Aroclor 1242	187508	0	
Aroclor 1242	187508	0	
Aroclor 1248	1984526	1993815	CO
Aroclor 1248	1984526	1993815	CO
Aroclor 1248	1984526	1993815	CO
Aroclor 1248	1984526	1993815	CO
Aroclor 1248	1984526	1993815	CO
Aroclor 1254	2089283	2106635	BA
Aroclor 1254	2089283	2106635	BA
Aroclor 1254	2089283	2106635	BA
Aroclor 1254	2089283	2106635	BA
Aroclor 1254	2089283	2106635	BA
Aroclor 1260	4320874	4347996	BA
Aroclor 1260	4320874	4347996	BA
Aroclor 1260	4320874	4347996	BA
Aroclor 1260	4320874	4347996	BA
Aroclor 1260	4320874	4347996	BA
Tetrachloro-m-xylene	12544432	12559800	BA
Decachlorobiphenyl	11262196	11262196	

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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.: 40157932

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.

05/16/2018 3:52

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157932

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.: 40157932

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 3:52

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157932

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.: 40157932

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

LAB FILE ID

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

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

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

05/16/2018 3:52

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.: 40157932

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.: 40157932

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		

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D Page 2
Report Date: 22-Mar-2018 13:34

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

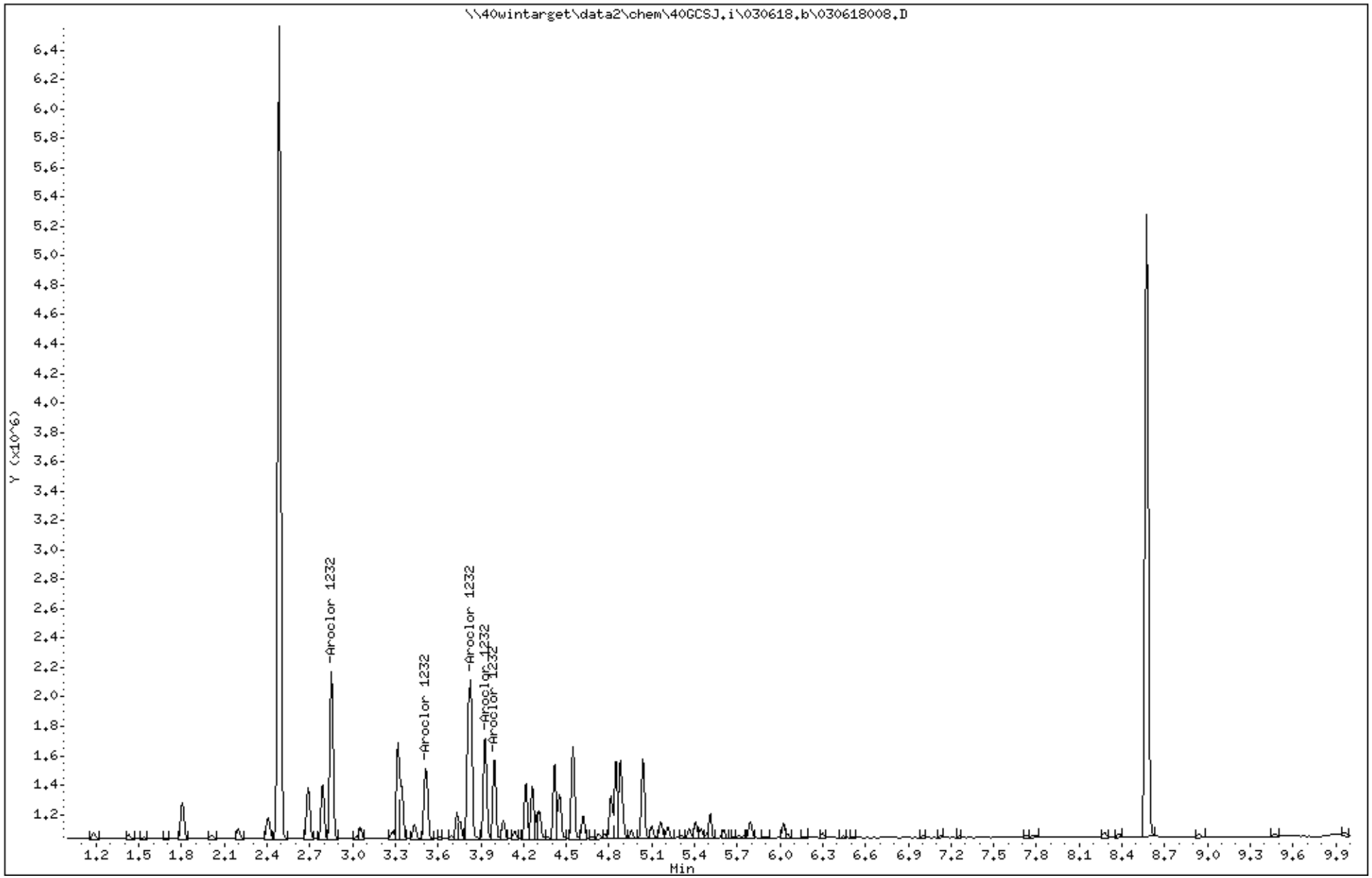
M - Compound response manually integrated.

Review Codes Legend

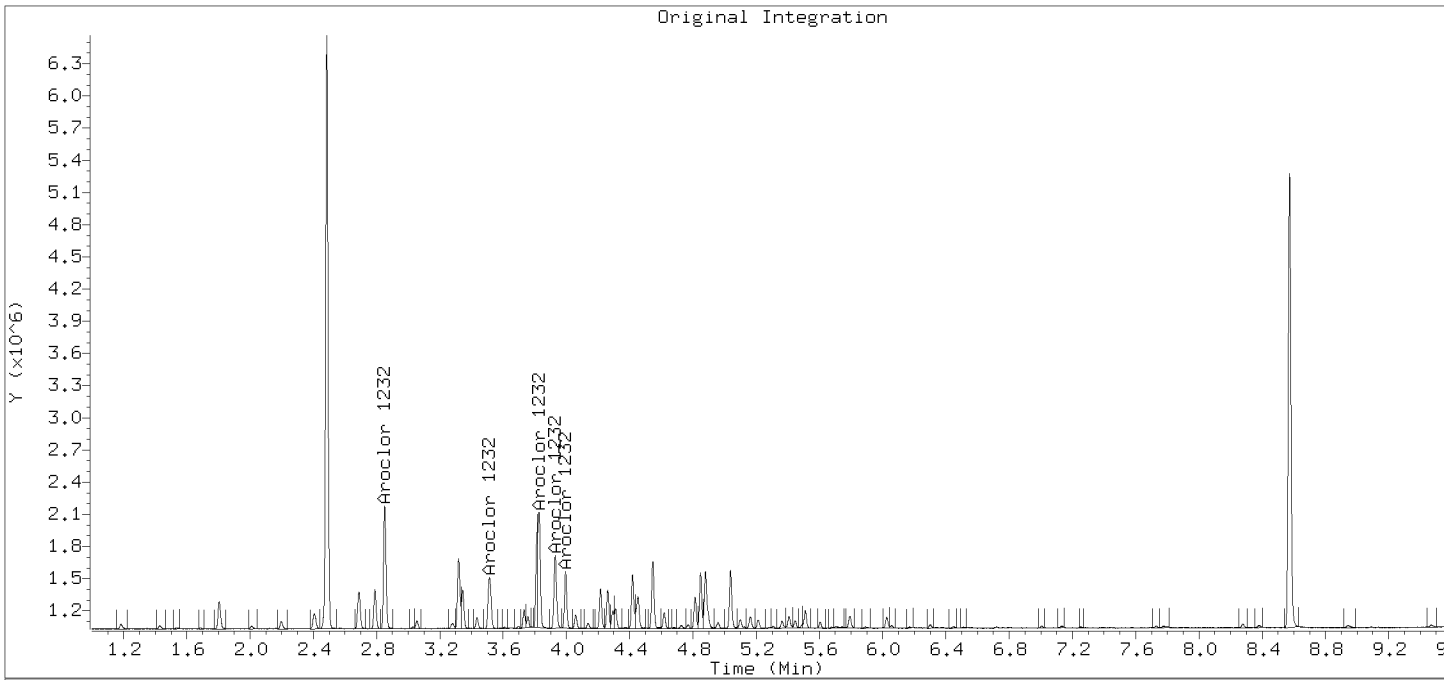
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

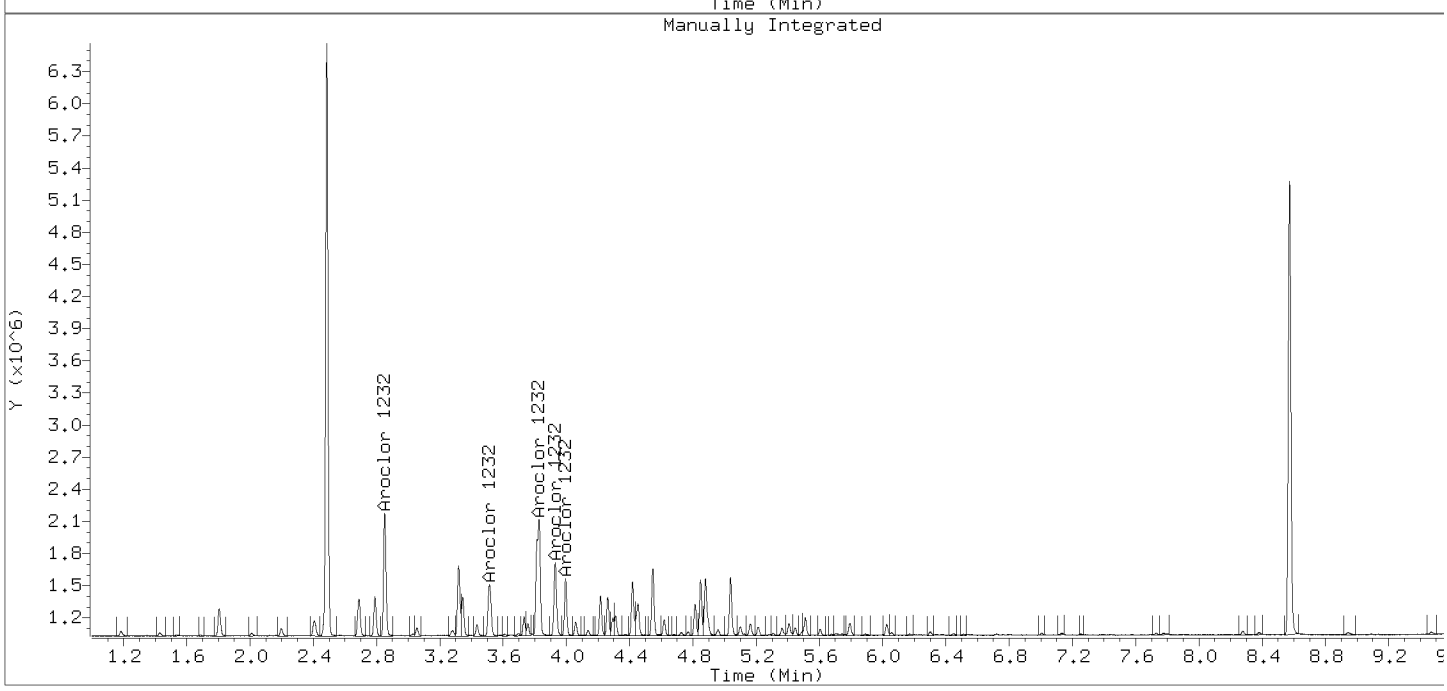
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

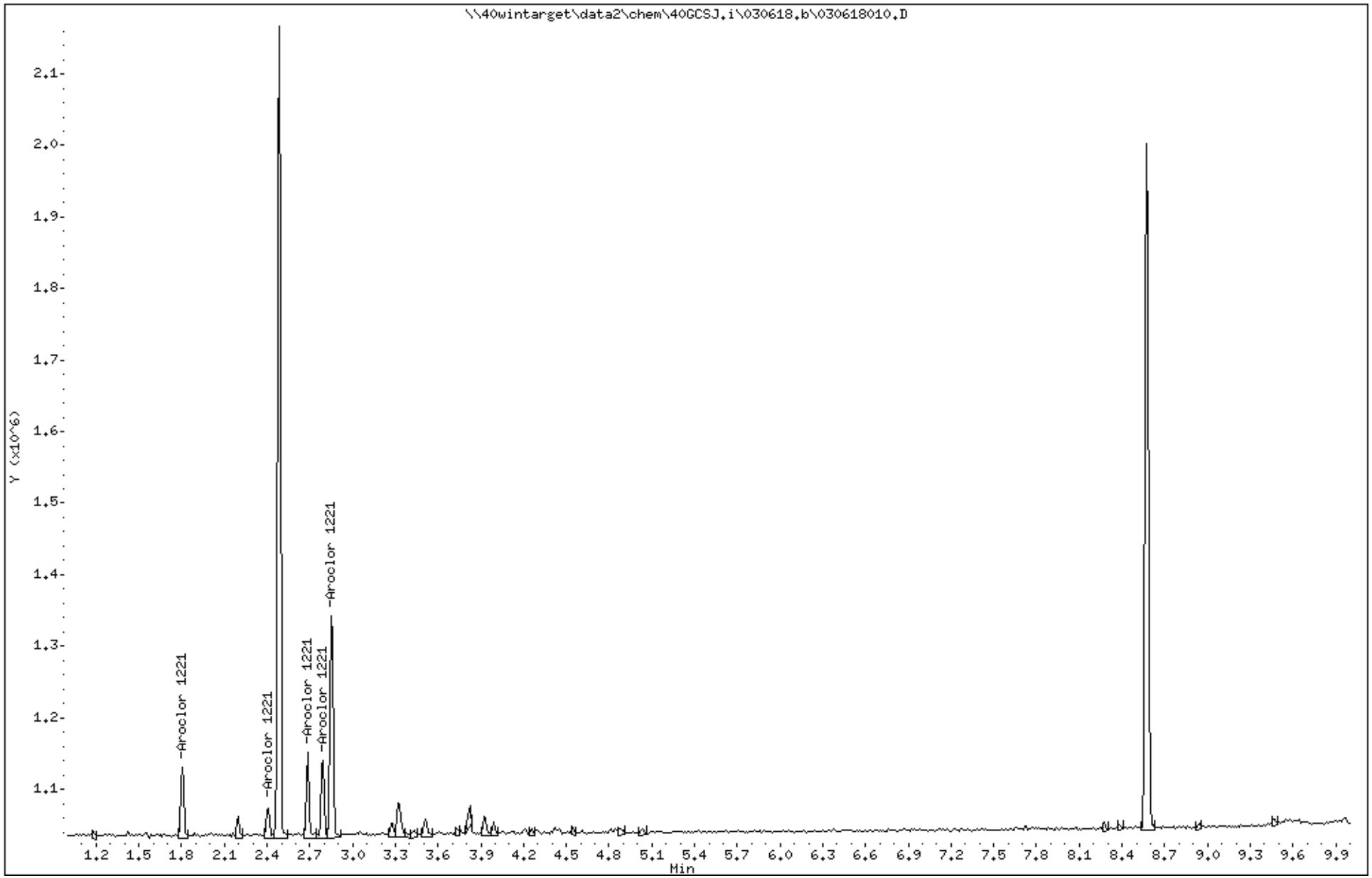
M - Compound response manually integrated.

Review Codes Legend

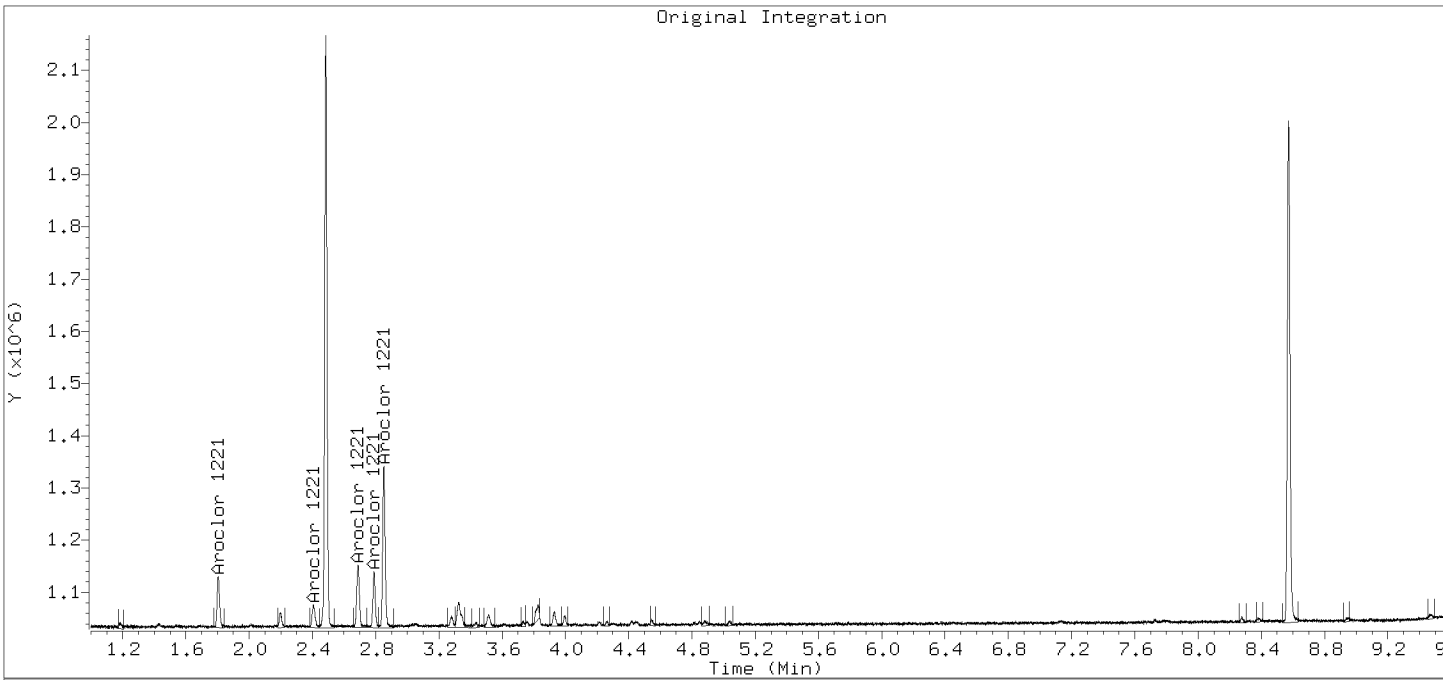
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

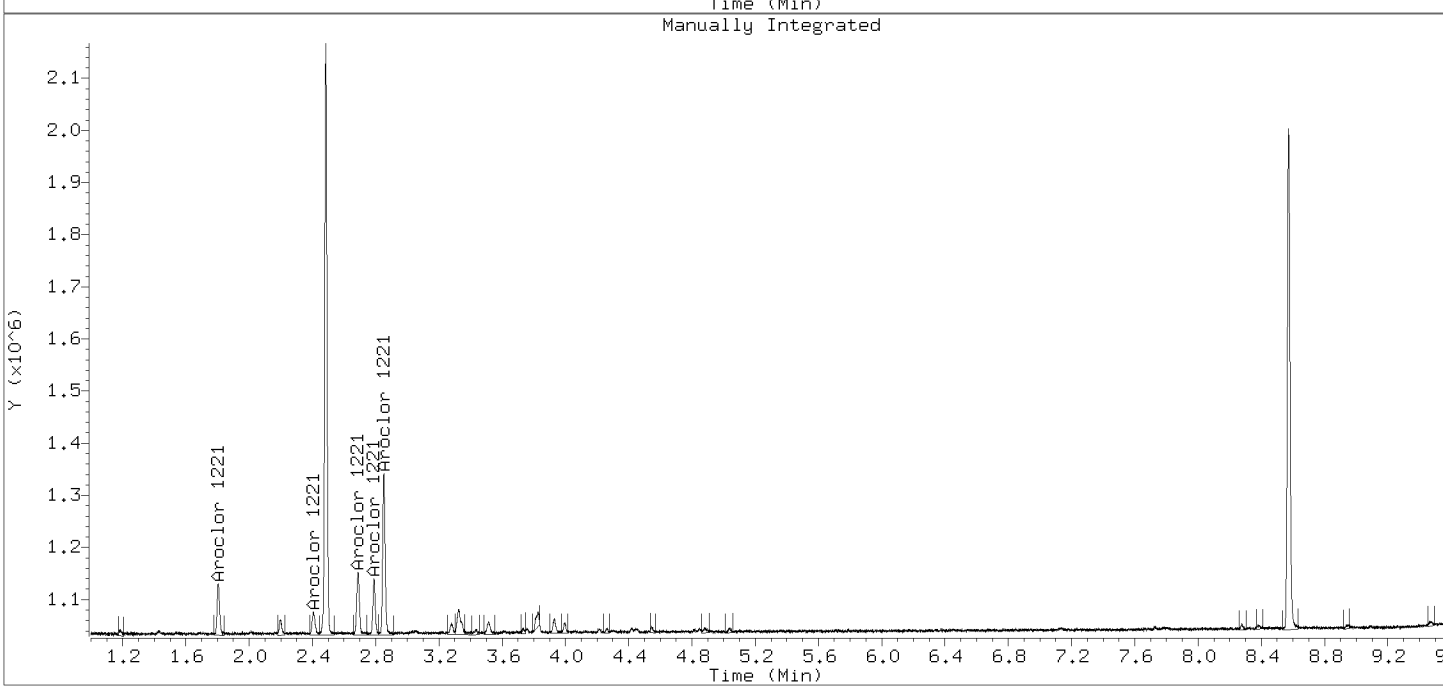
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

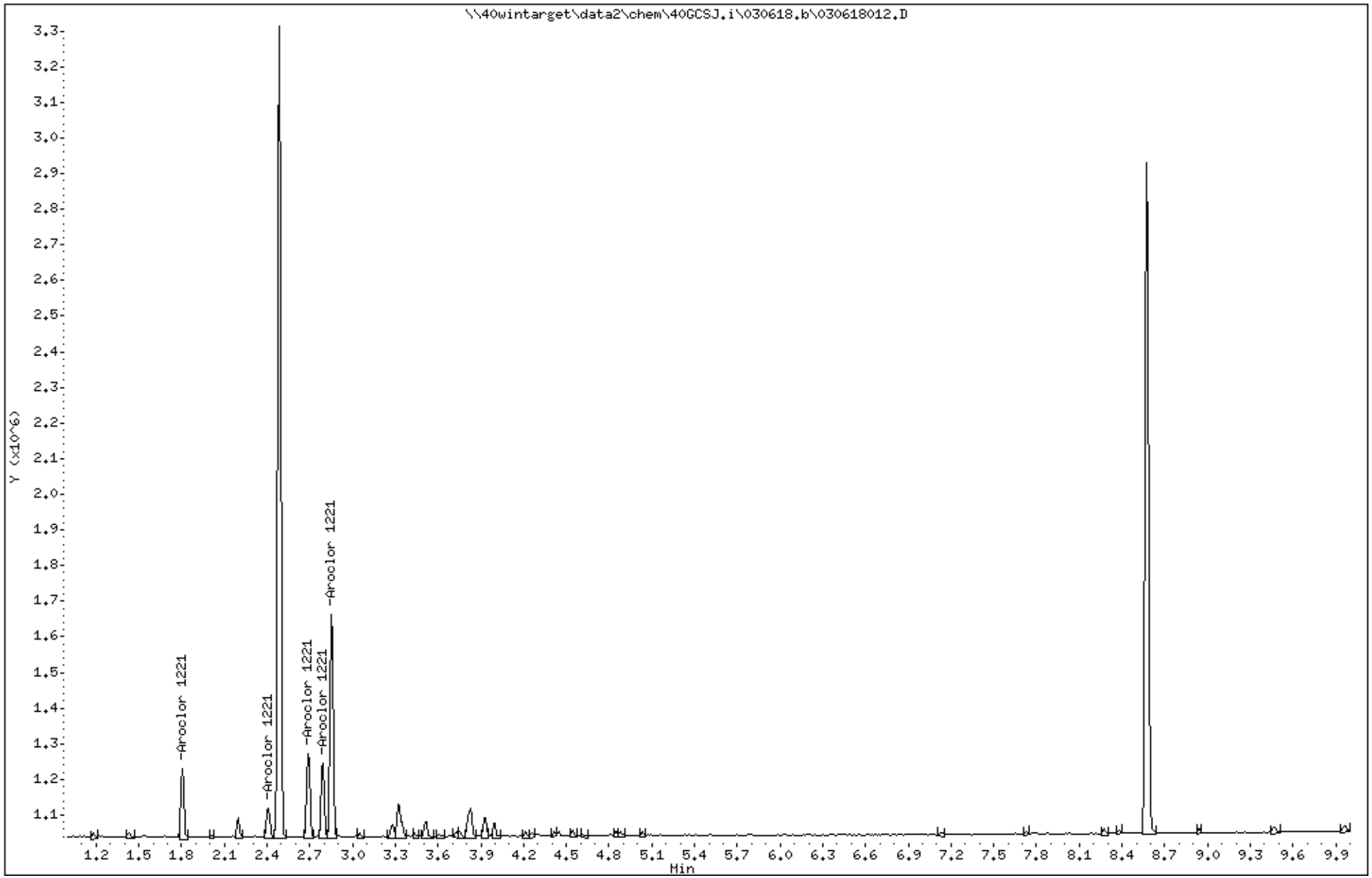
M - Compound response manually integrated.

Review Codes Legend

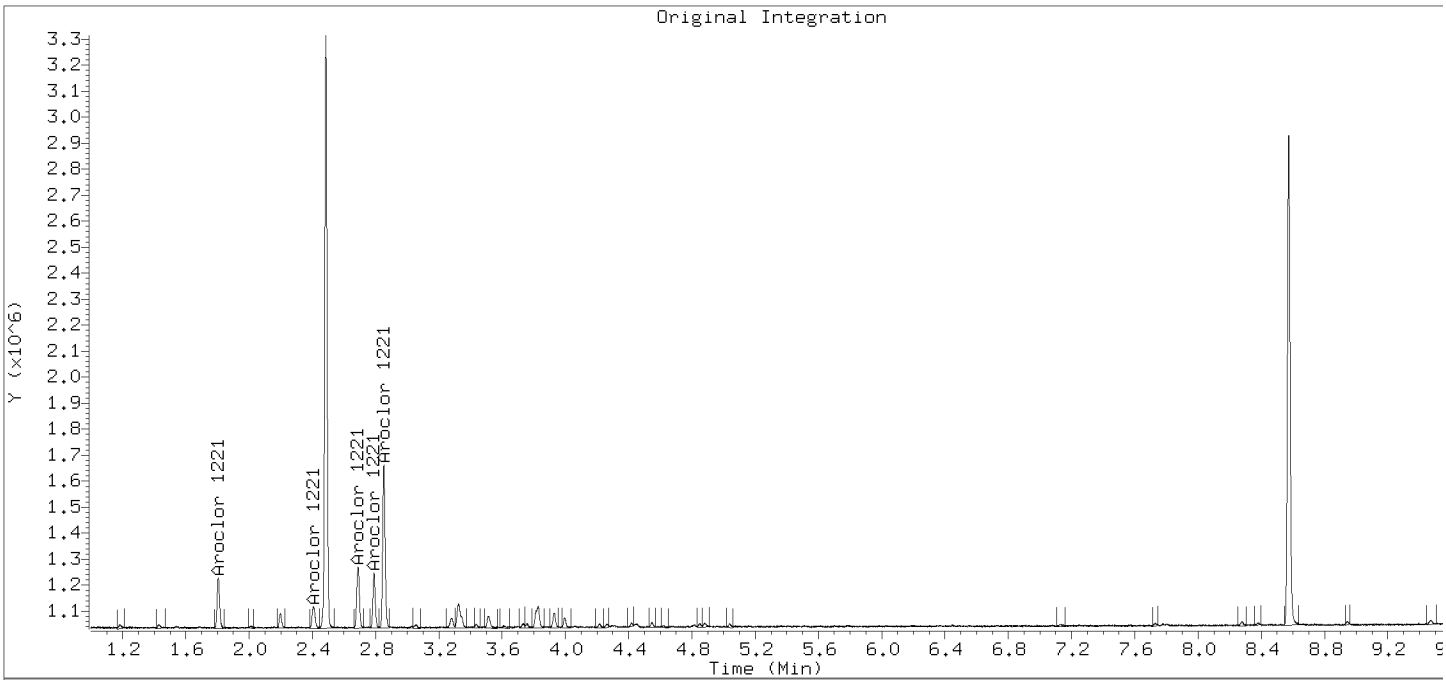
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

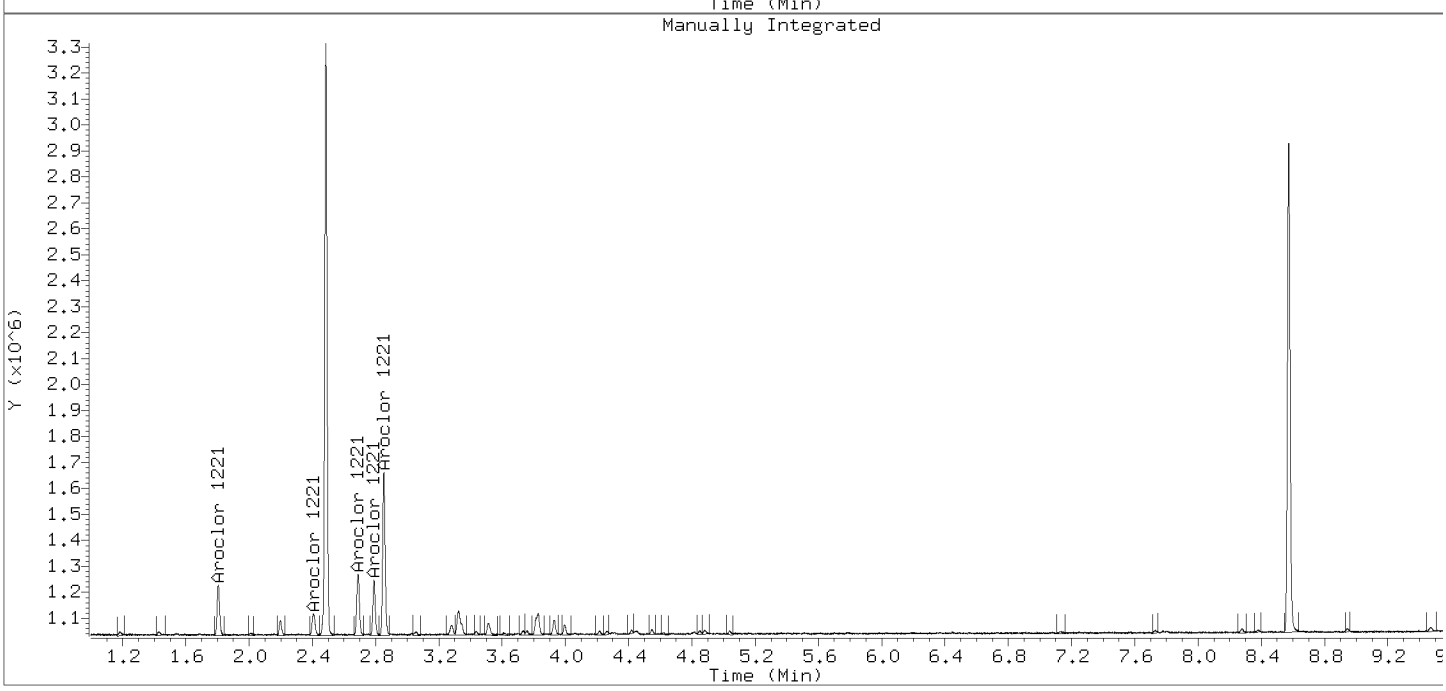
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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

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: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

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

QC Flag Legend

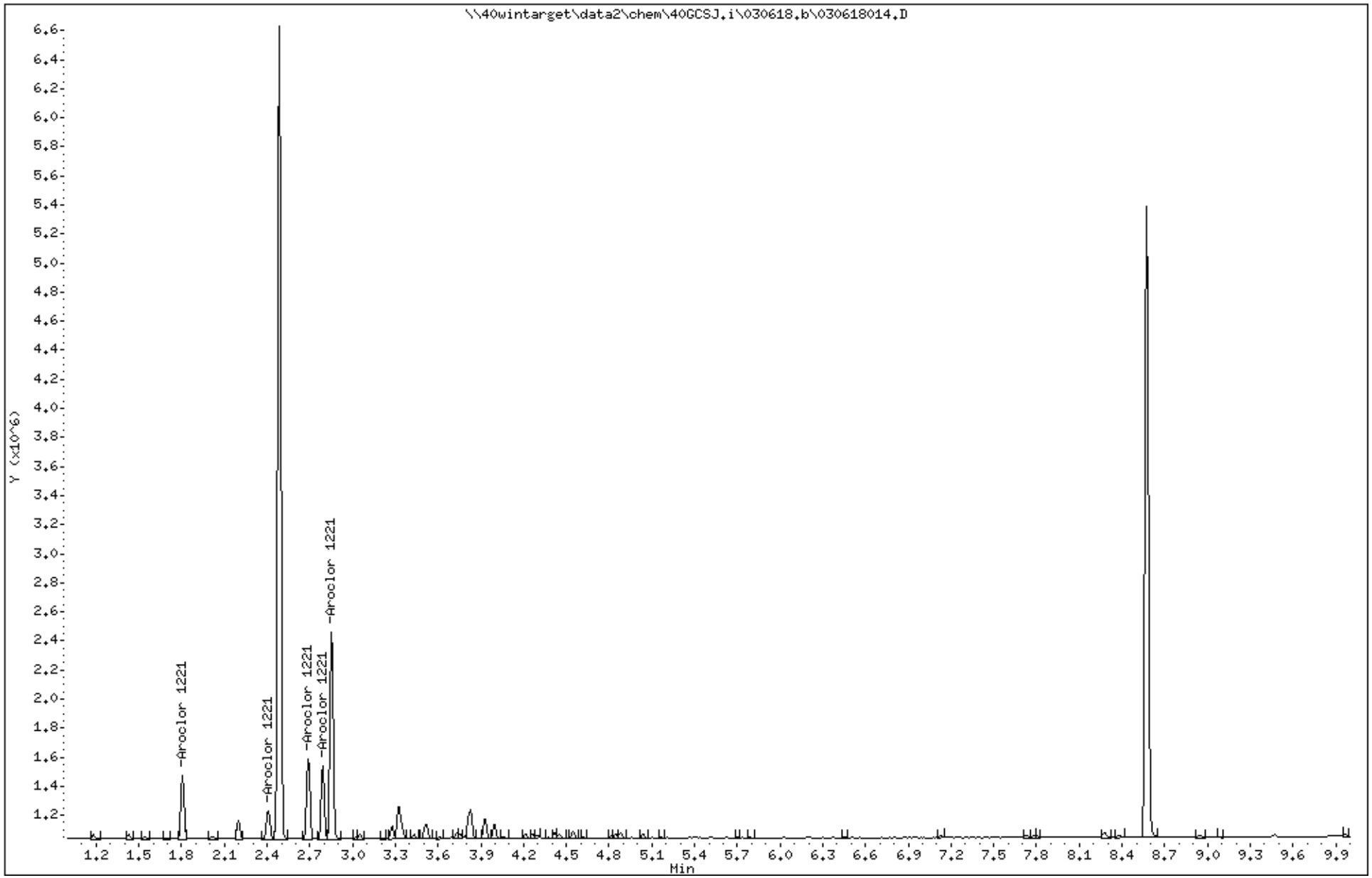
M - Compound response manually integrated.

Review Codes Legend

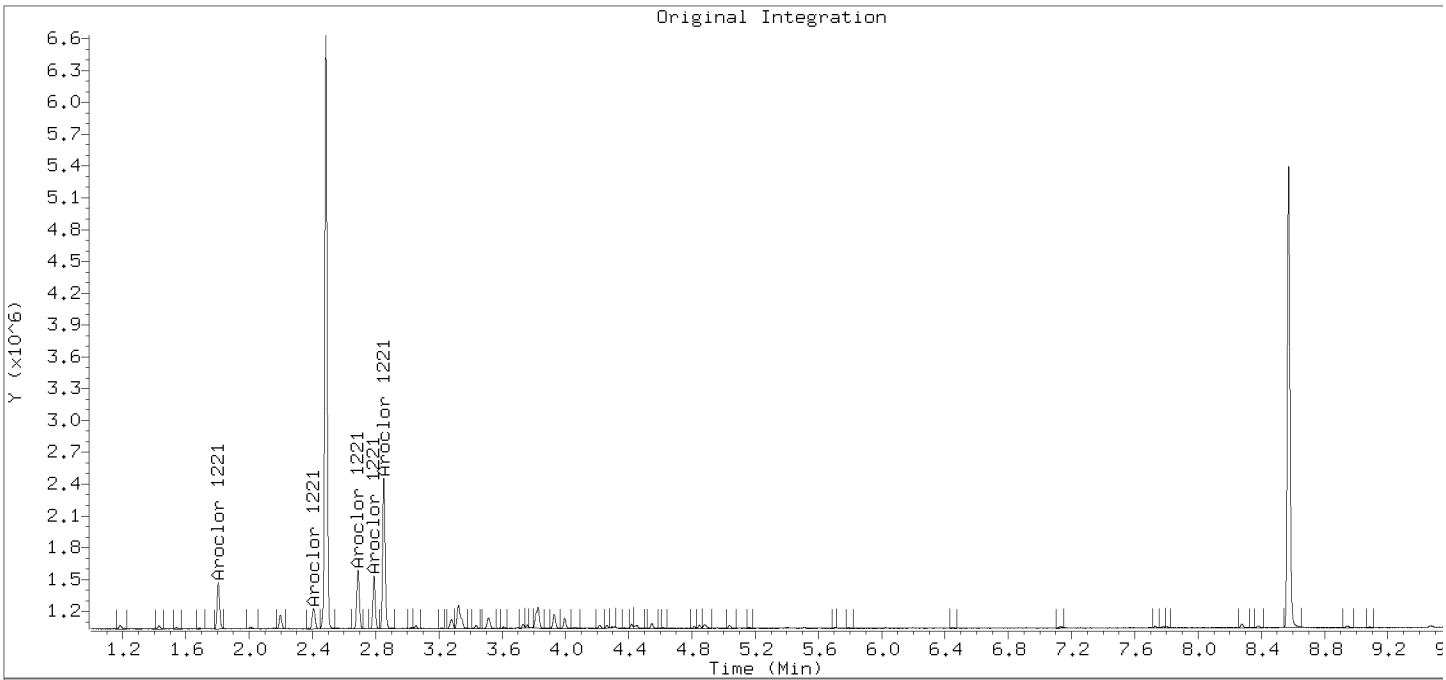
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

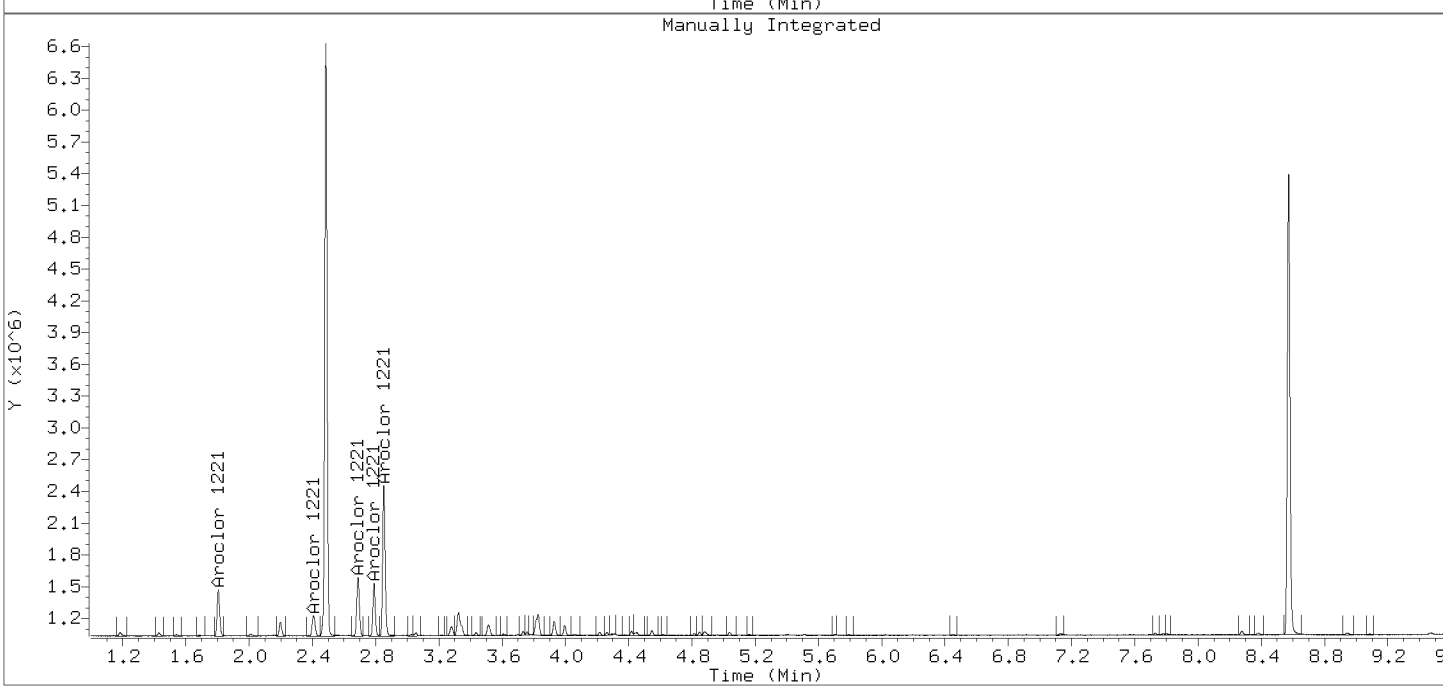
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

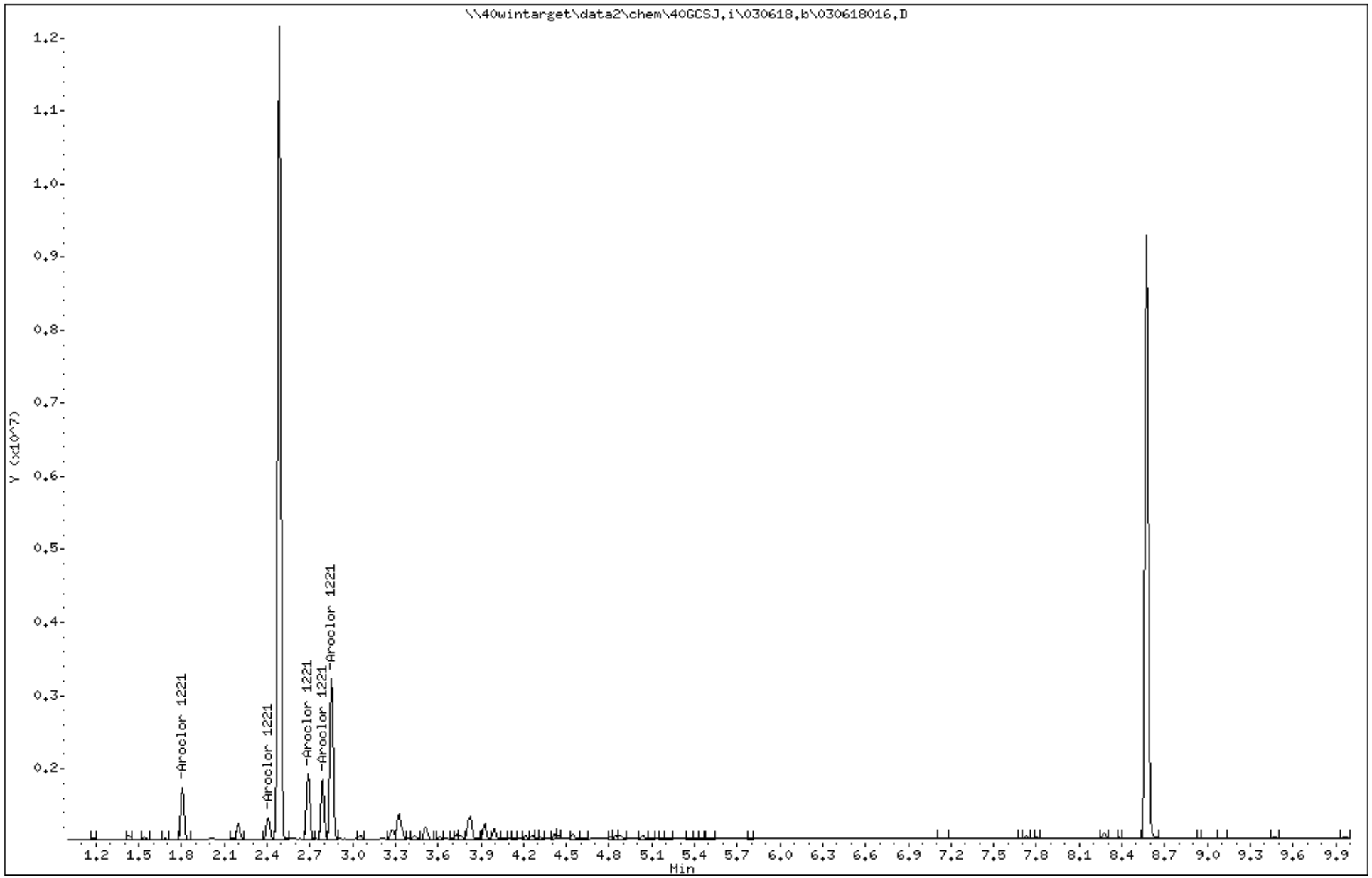
M - Compound response manually integrated.

Review Codes Legend

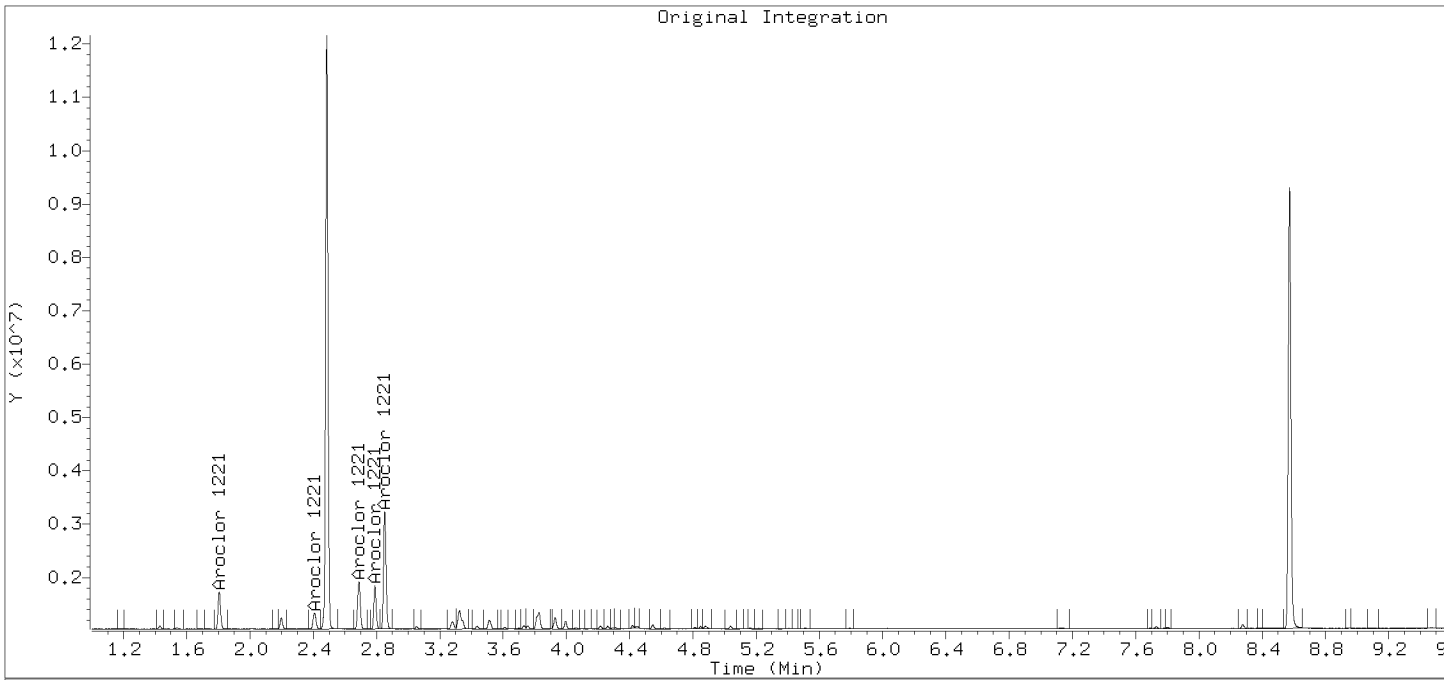
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

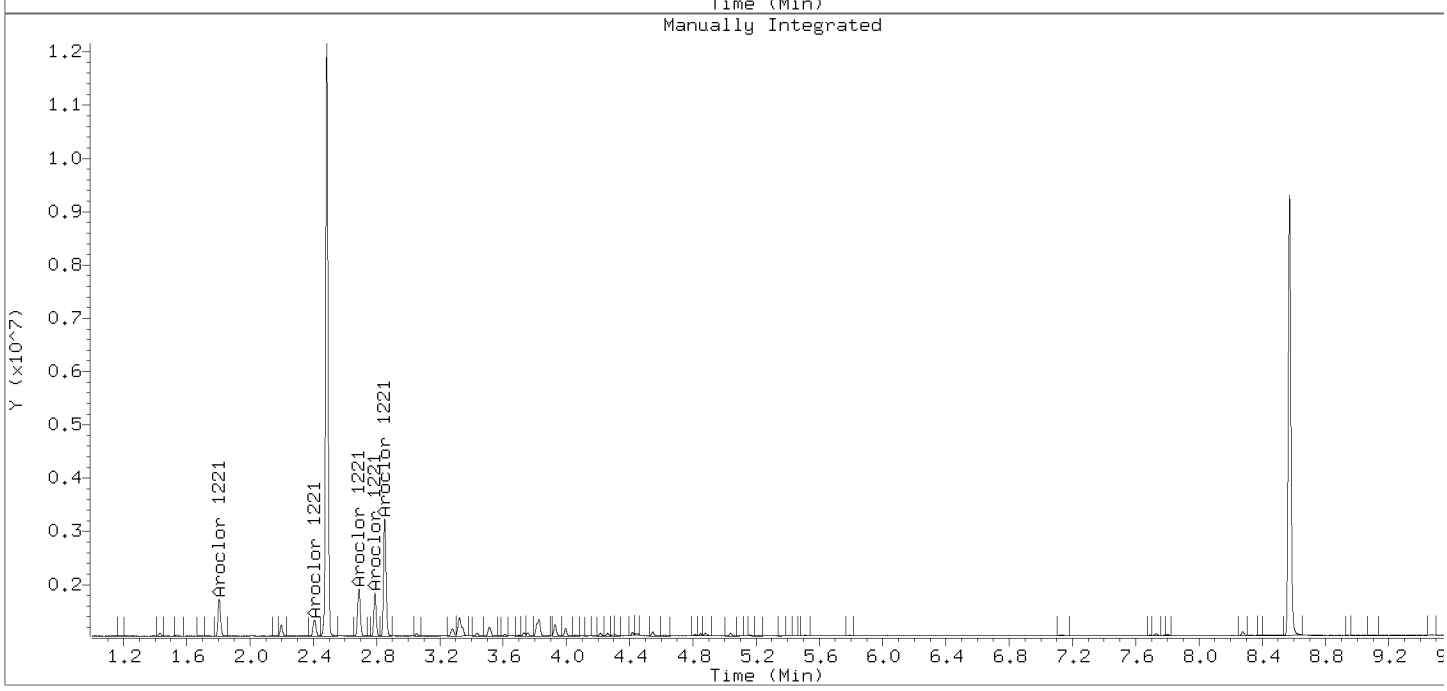
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

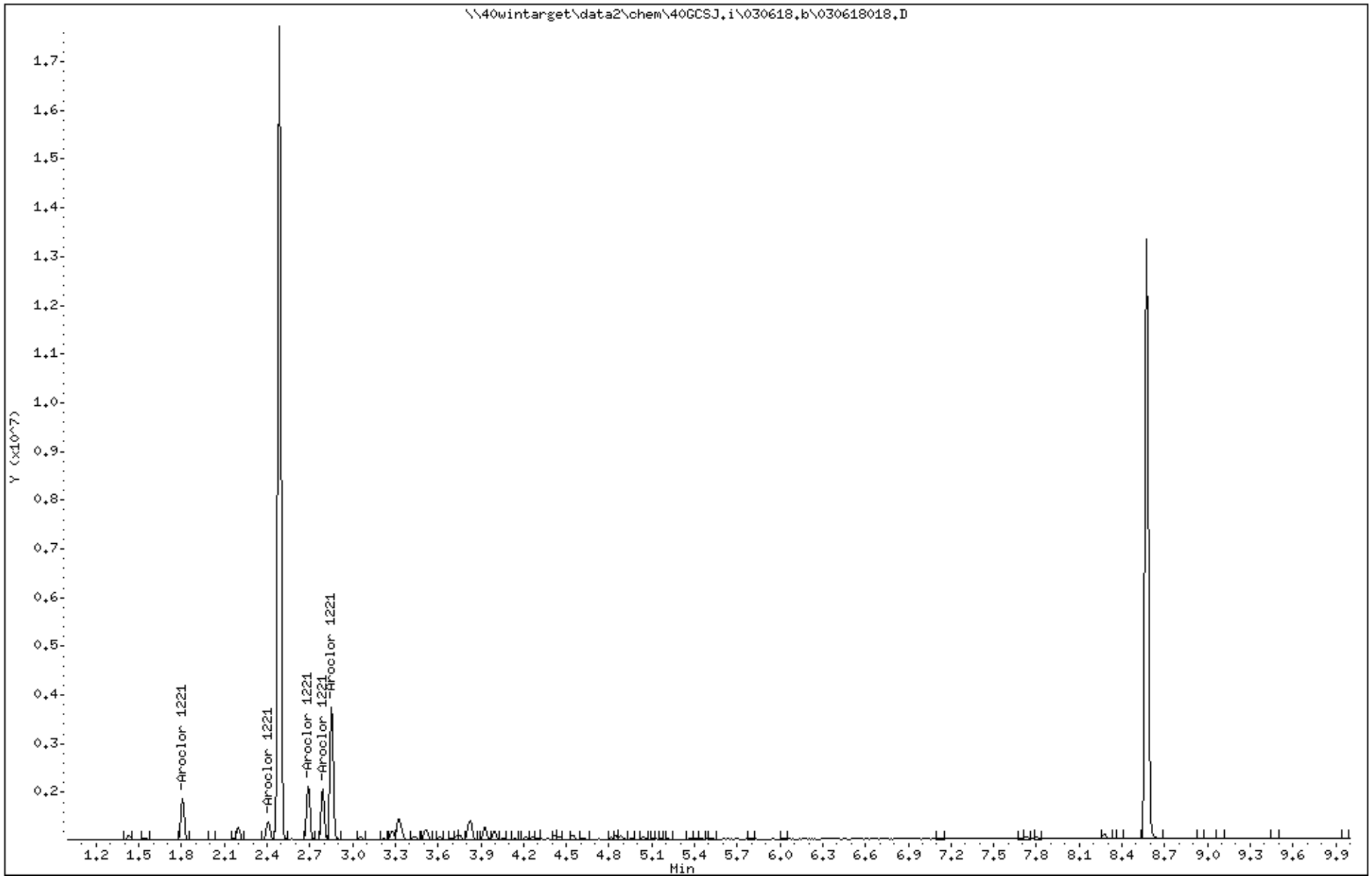
M - Compound response manually integrated.

Review Codes Legend

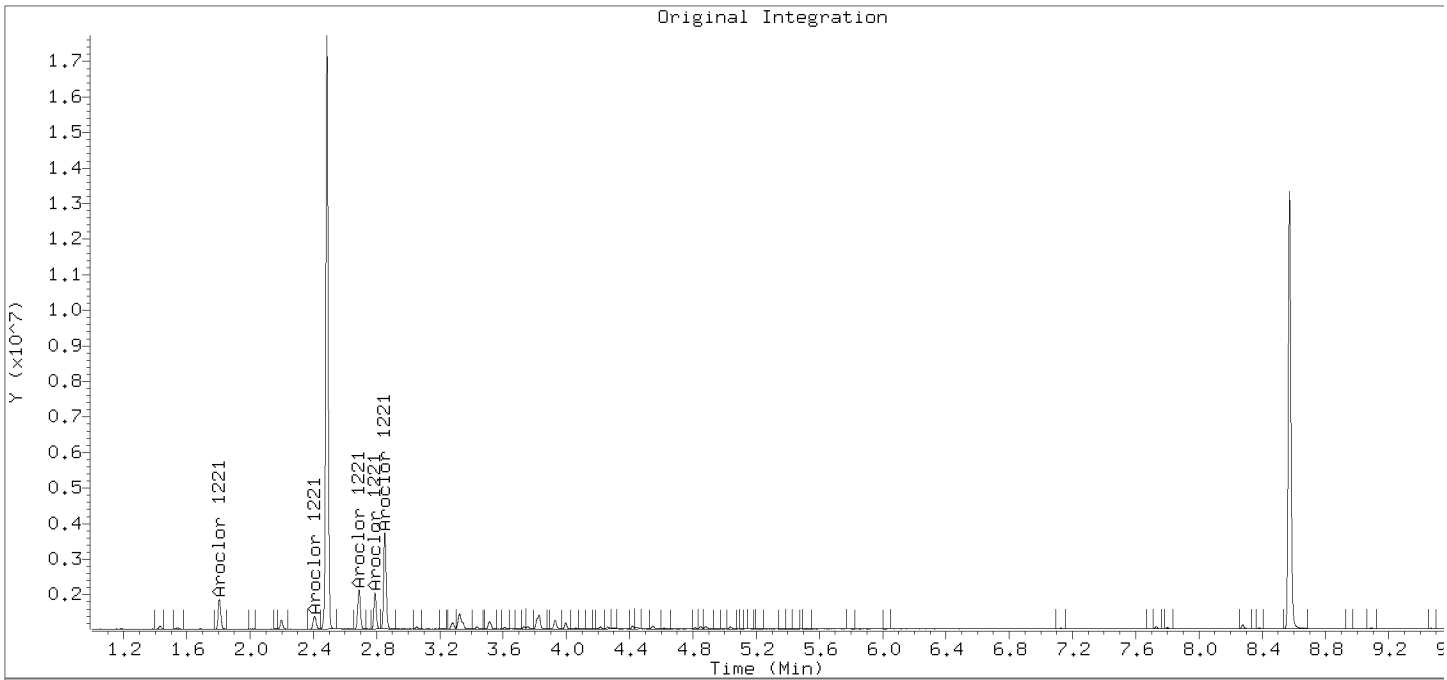
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

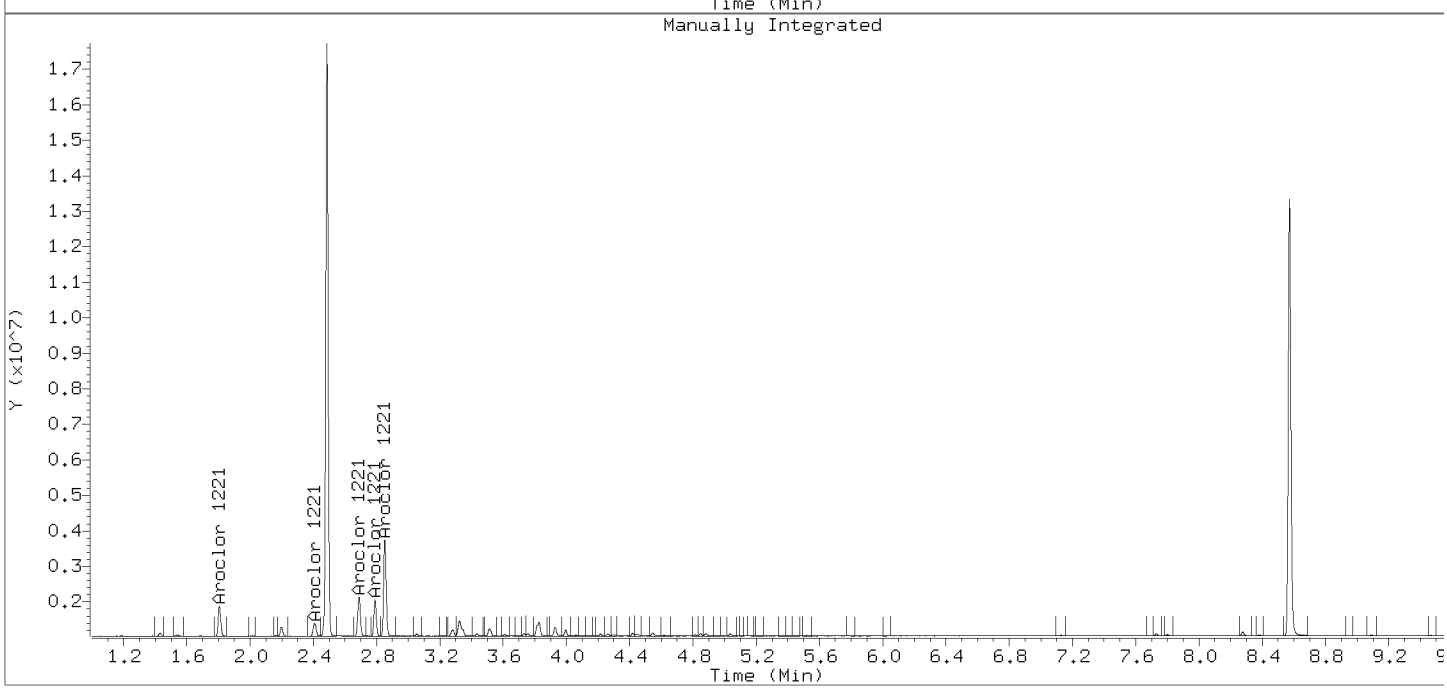
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

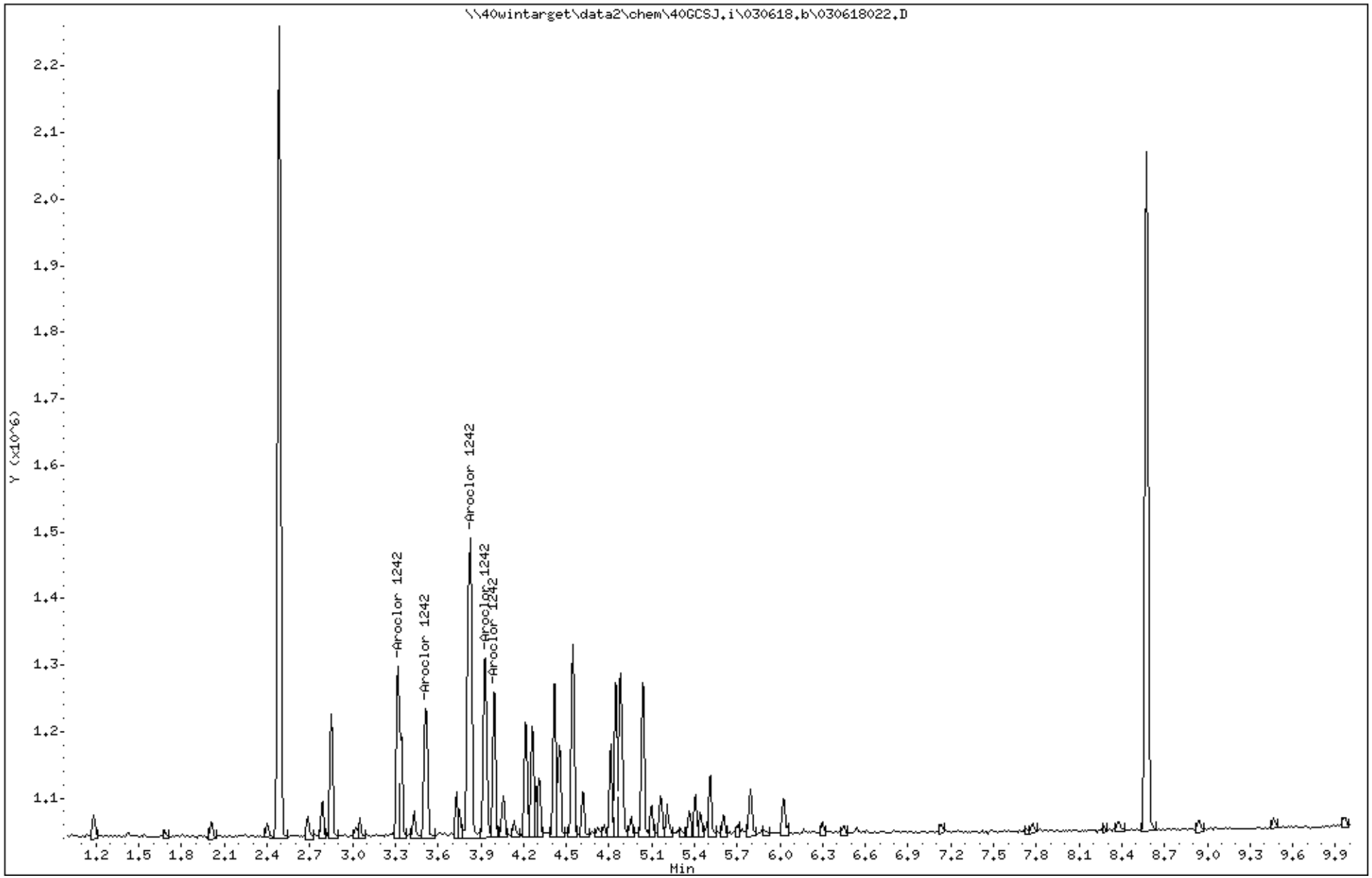
M - Compound response manually integrated.

Review Codes Legend

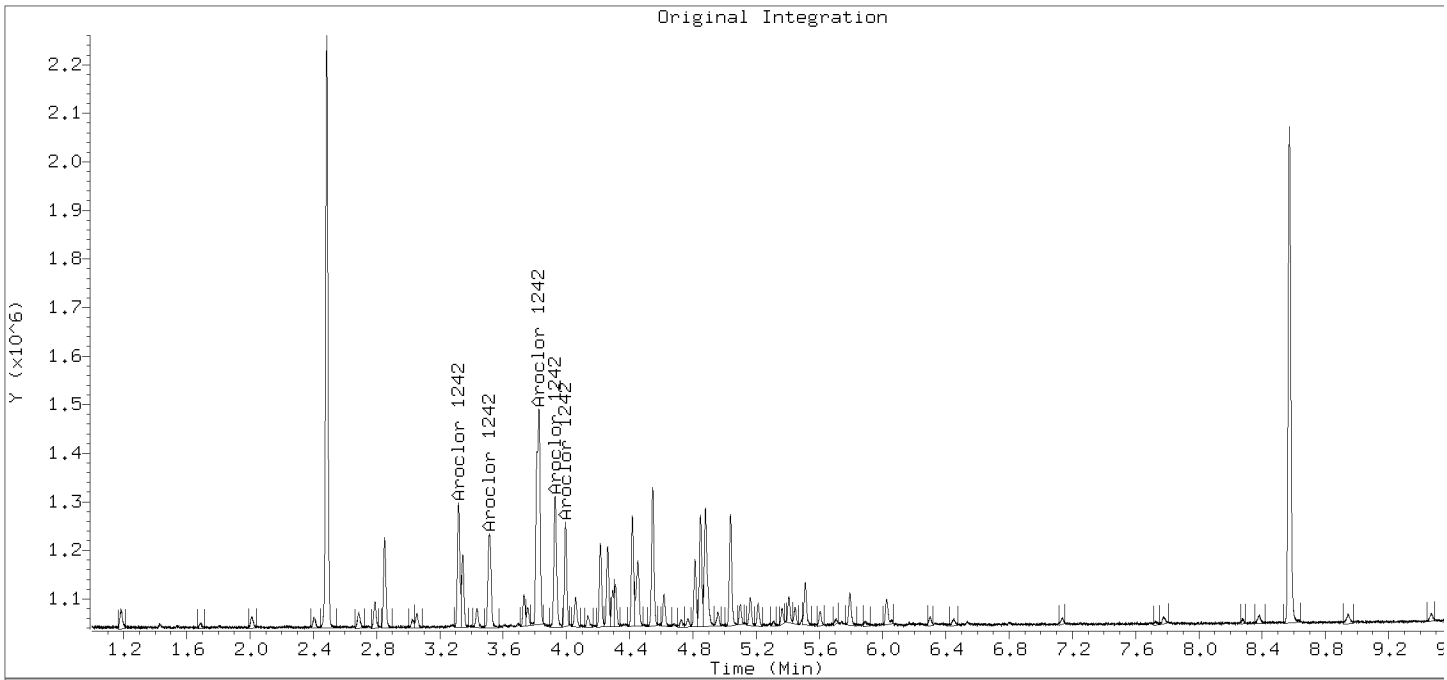
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

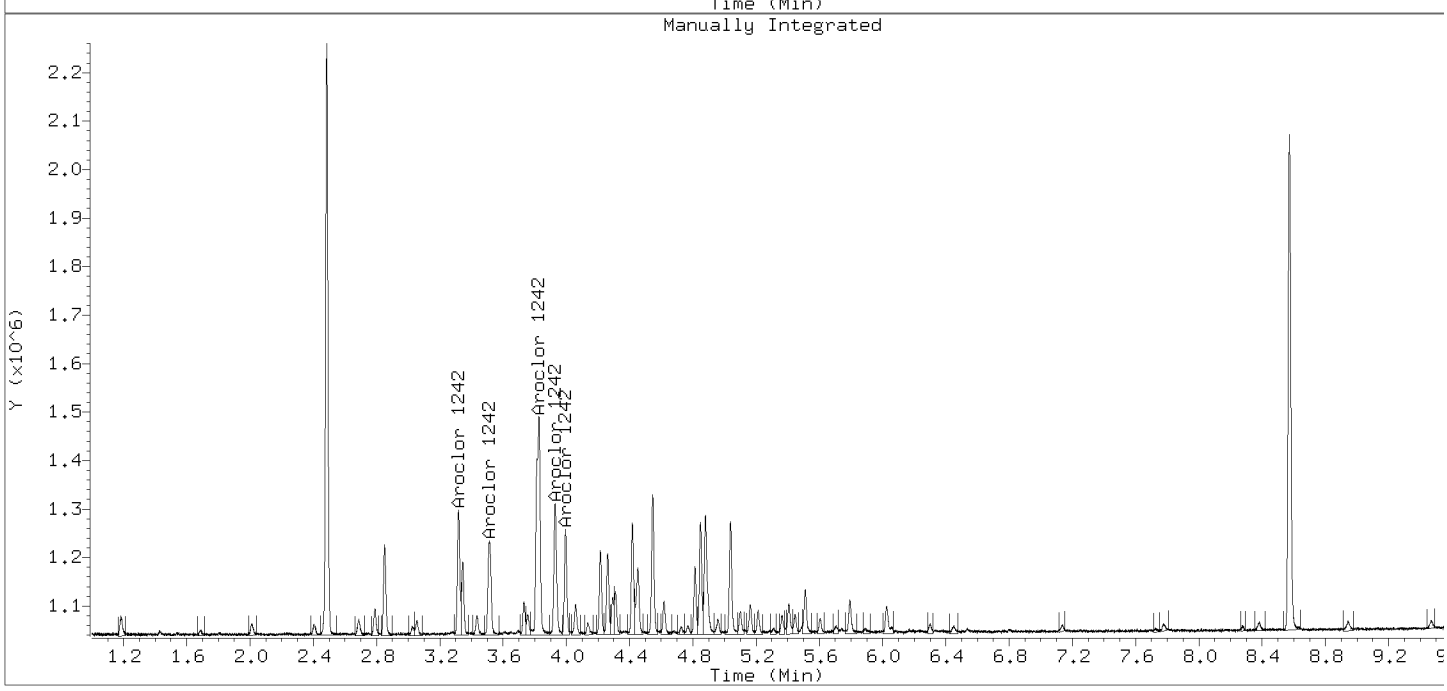
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

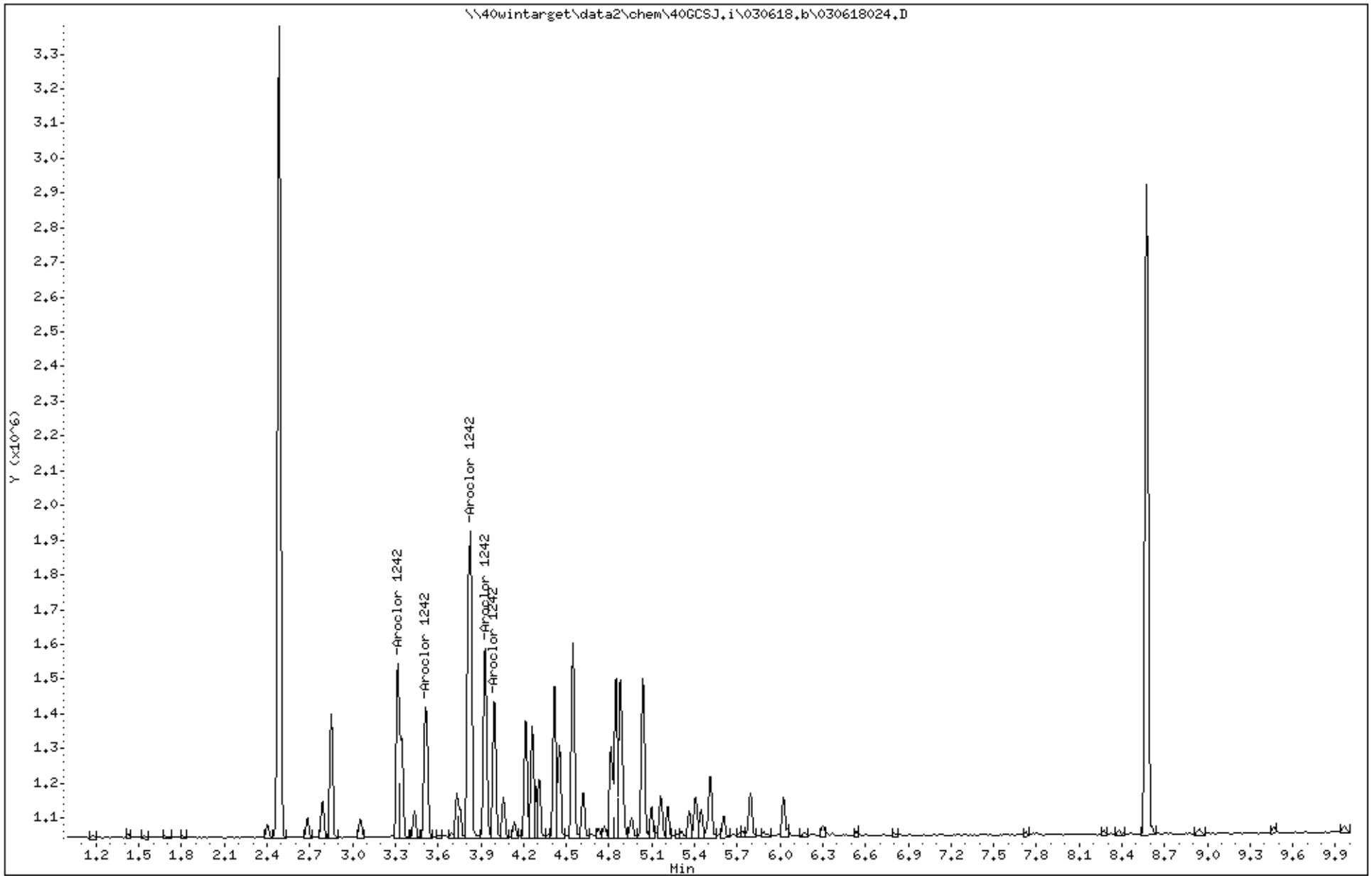
M - Compound response manually integrated.

Review Codes Legend

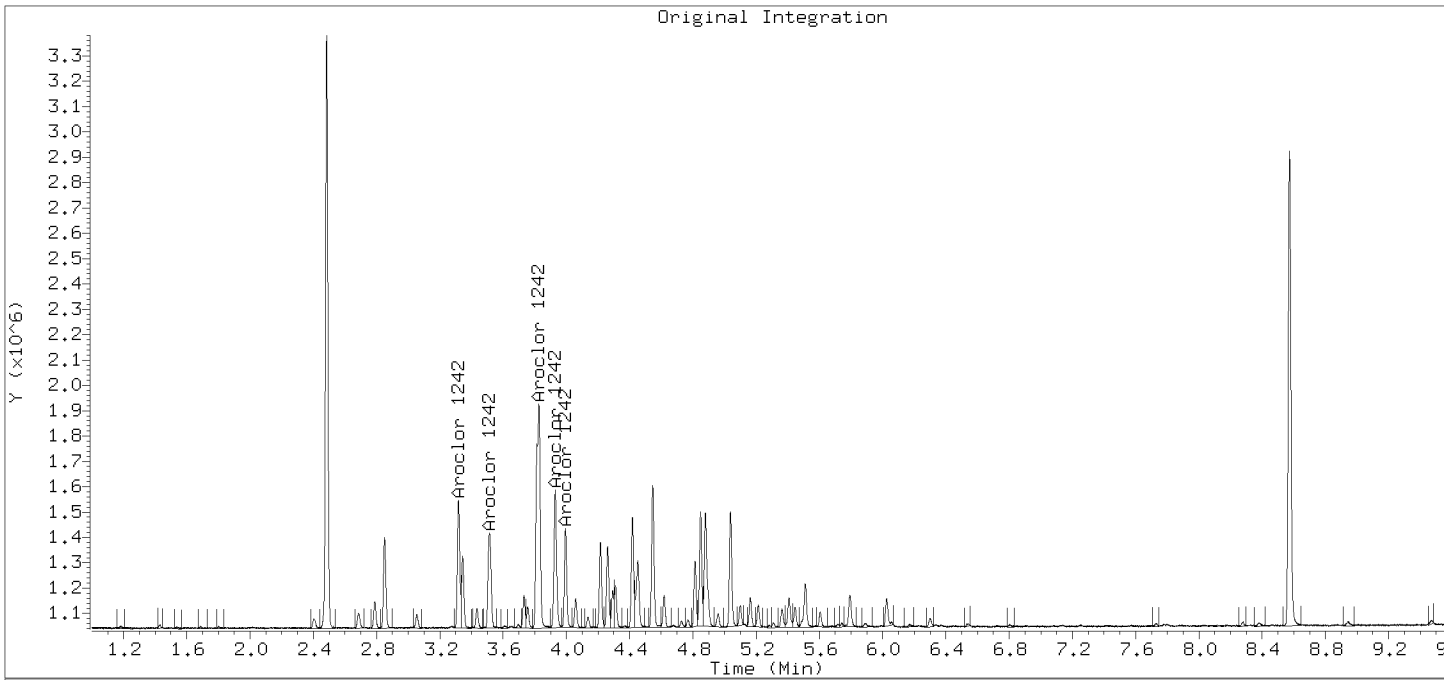
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

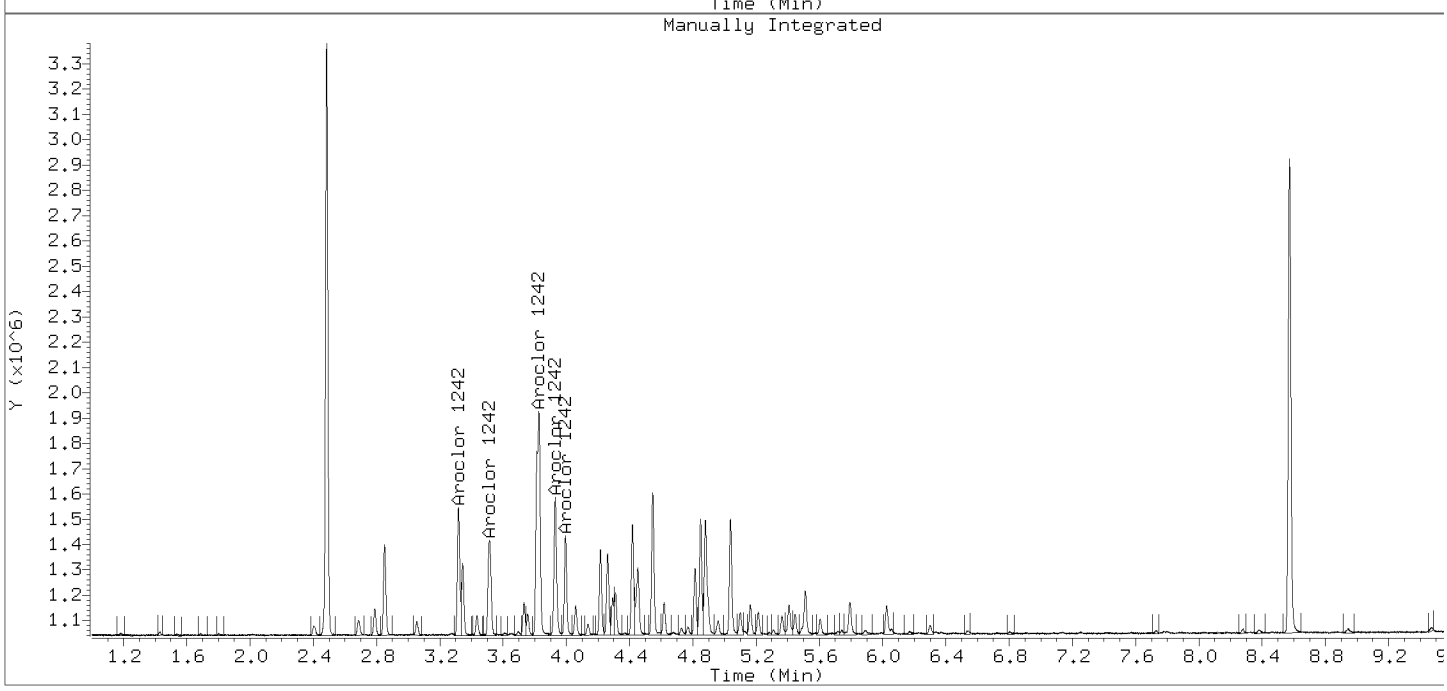
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

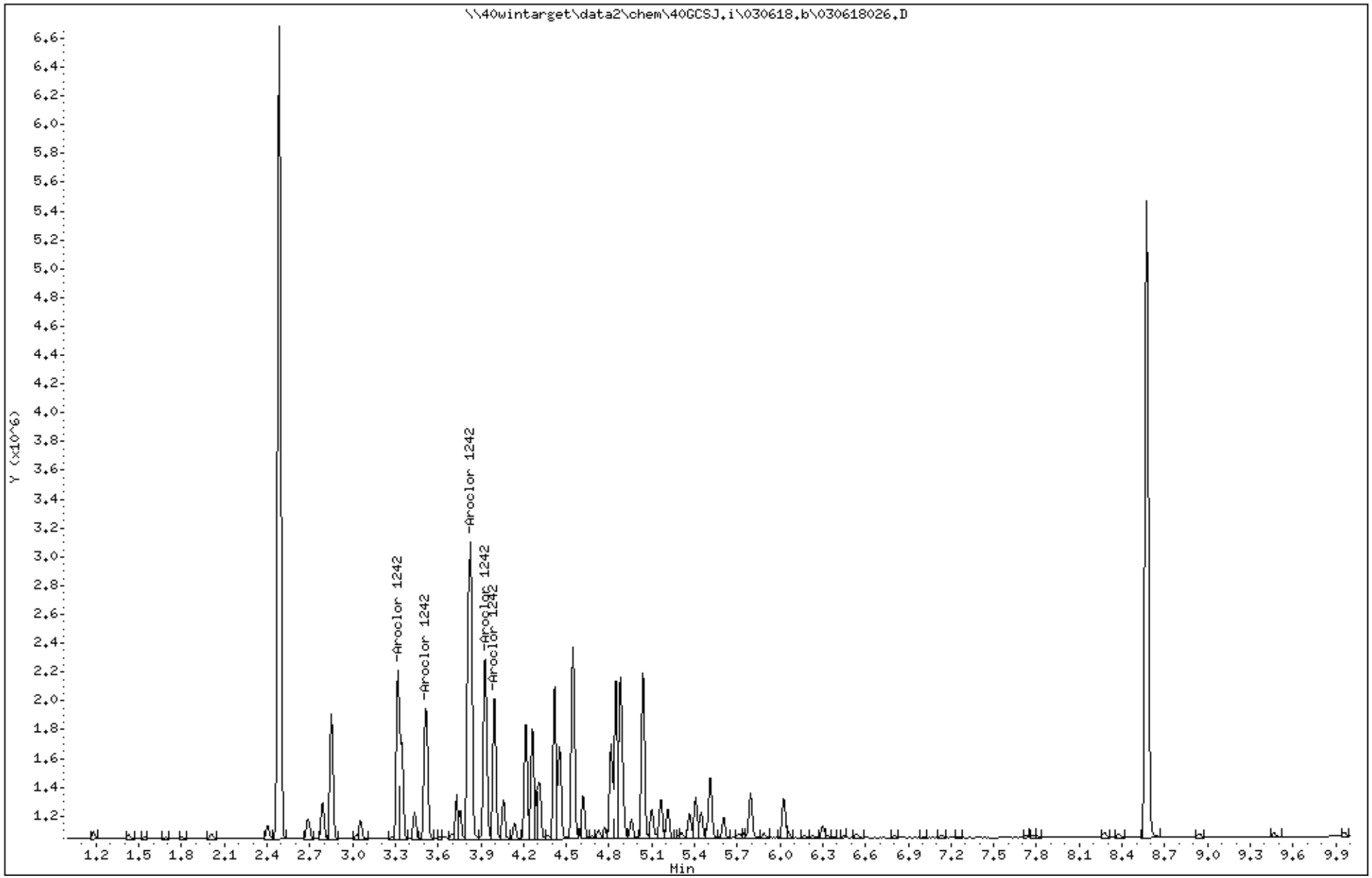
M - Compound response manually integrated.

Review Codes Legend

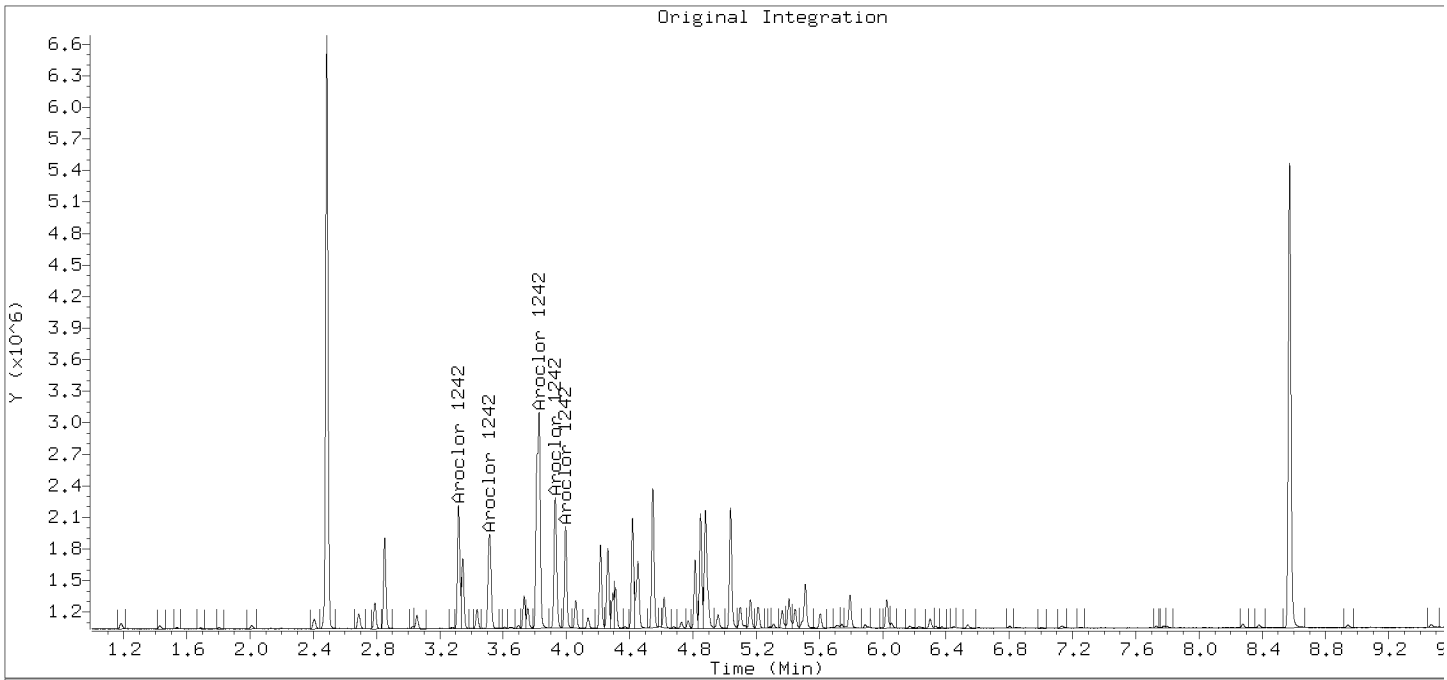
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

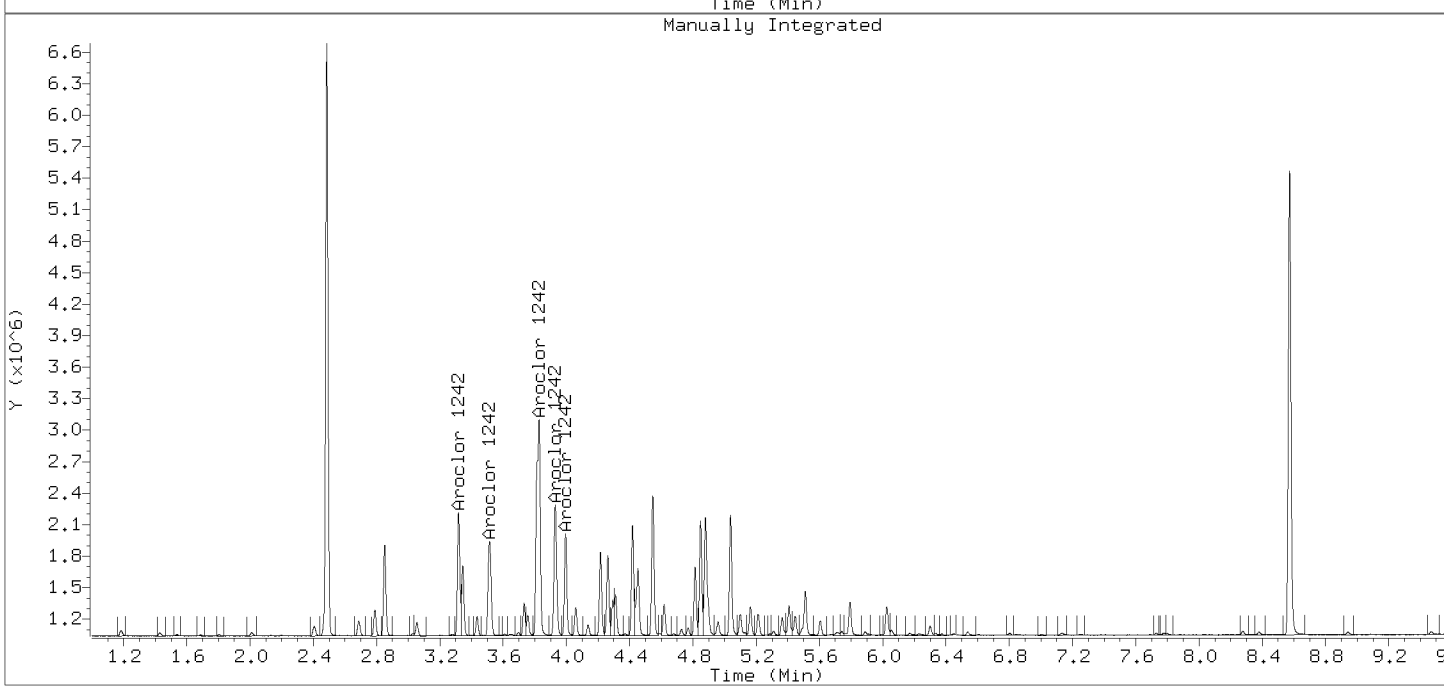
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

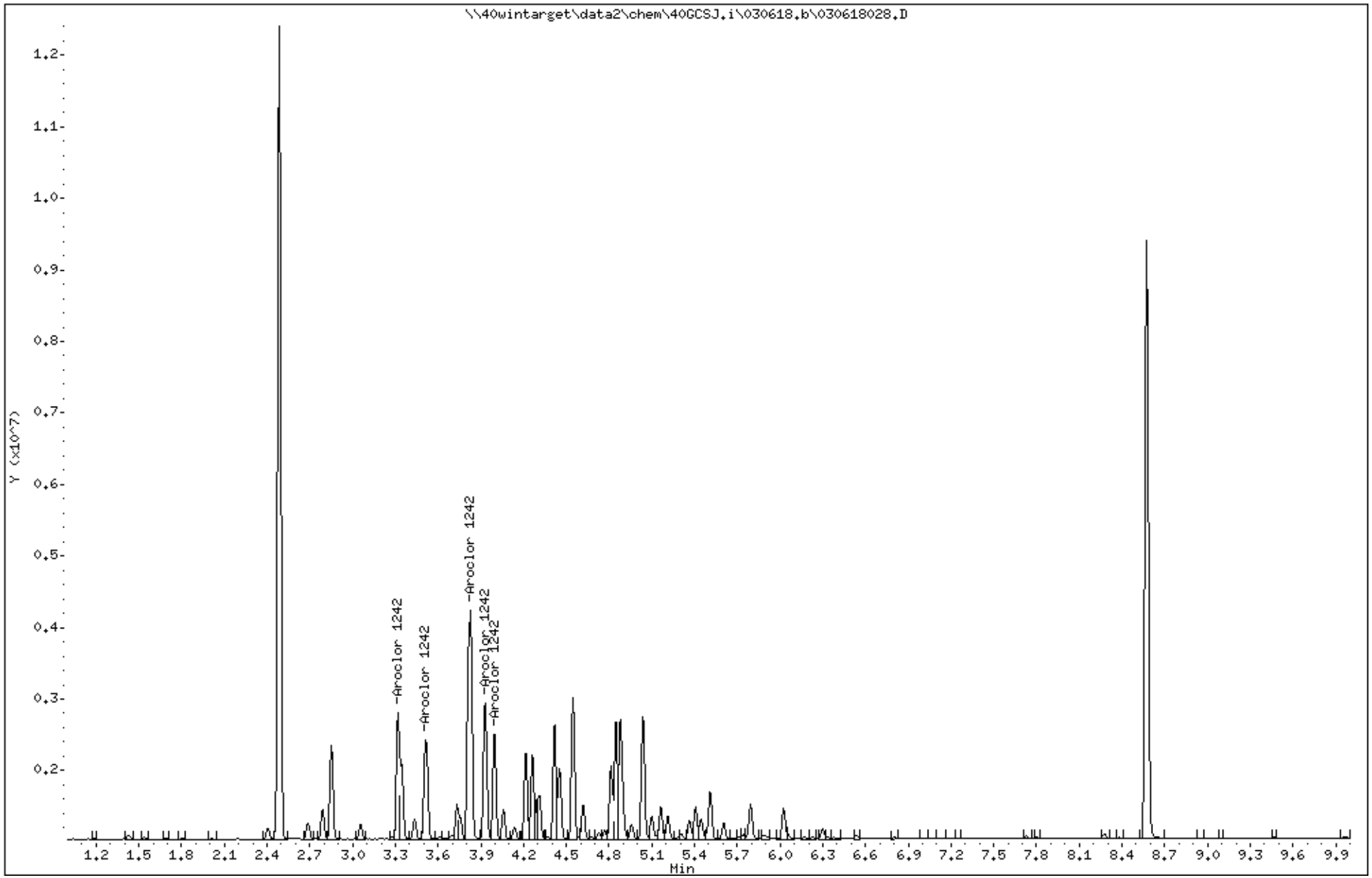
M - Compound response manually integrated.

Review Codes Legend

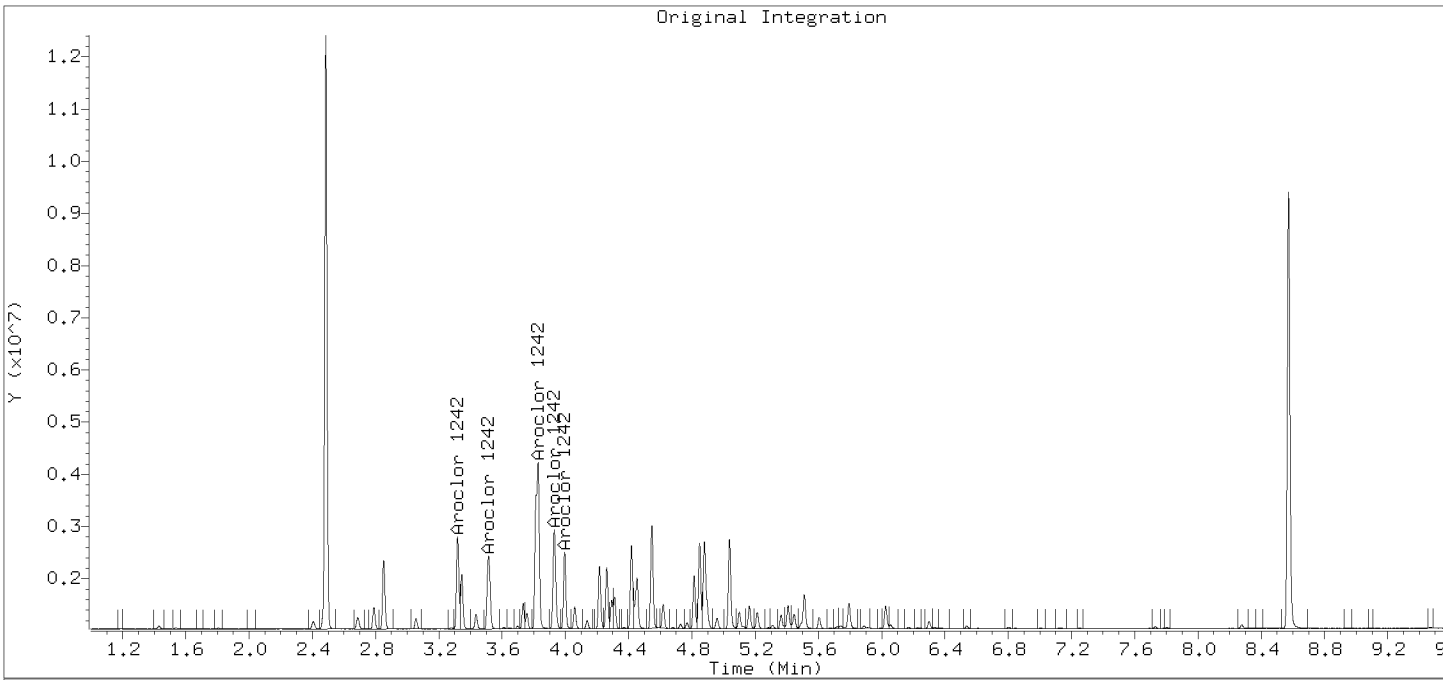
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

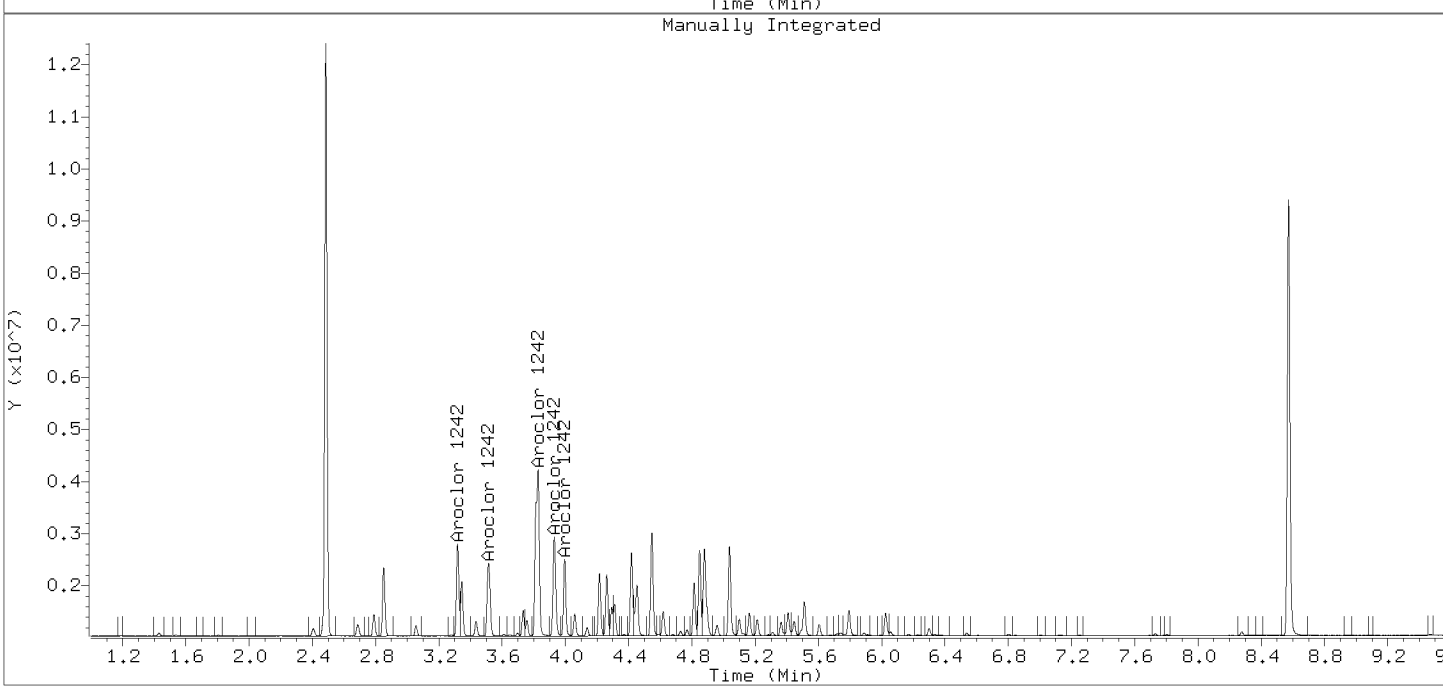
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Date : 06-MAR-2018 14:32
Client ID: 1242-CAL4B
Sample Info: 1242-CAL4B, 185545:1

Instrument: 40GCSJ.i
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

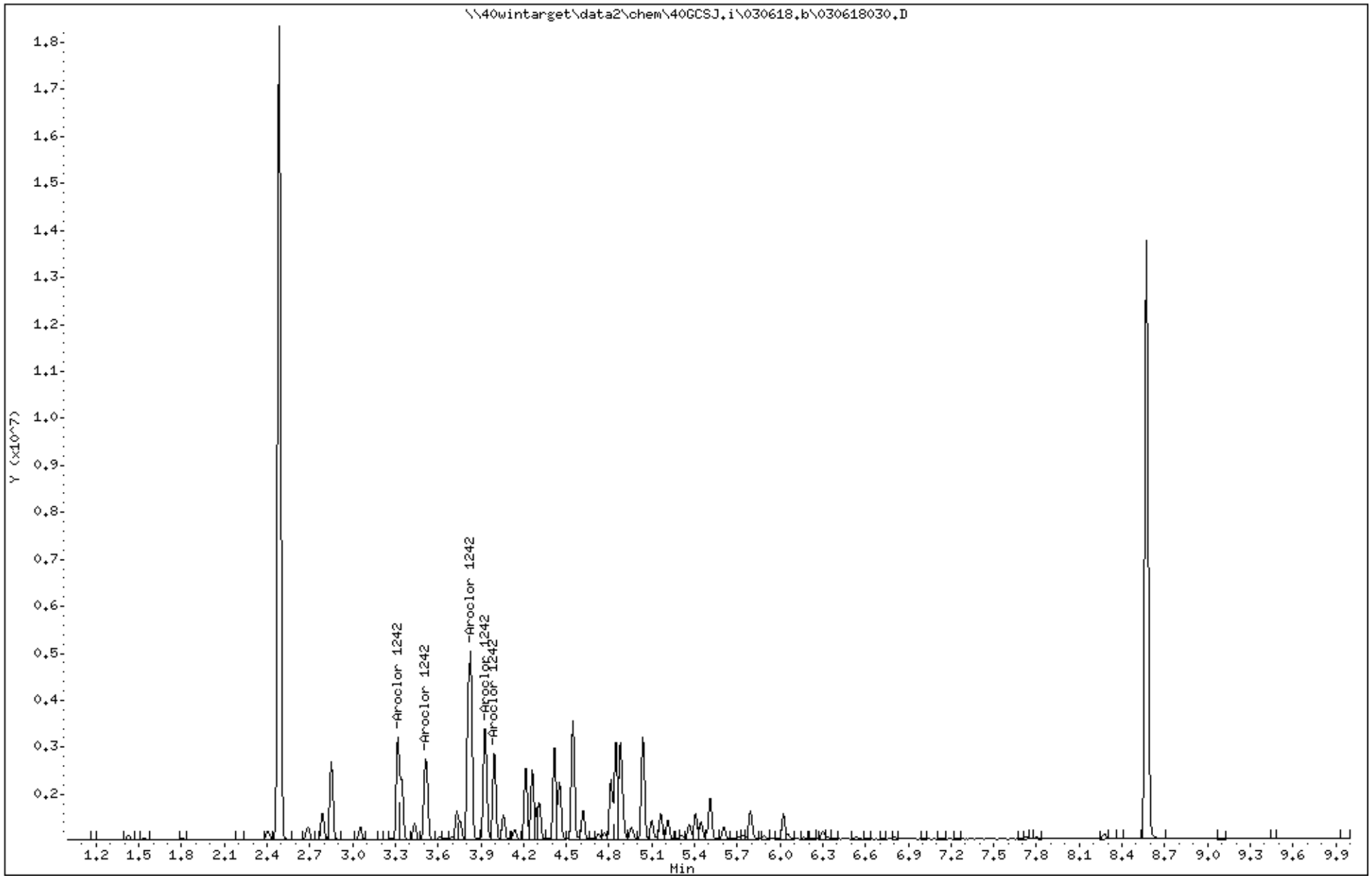
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

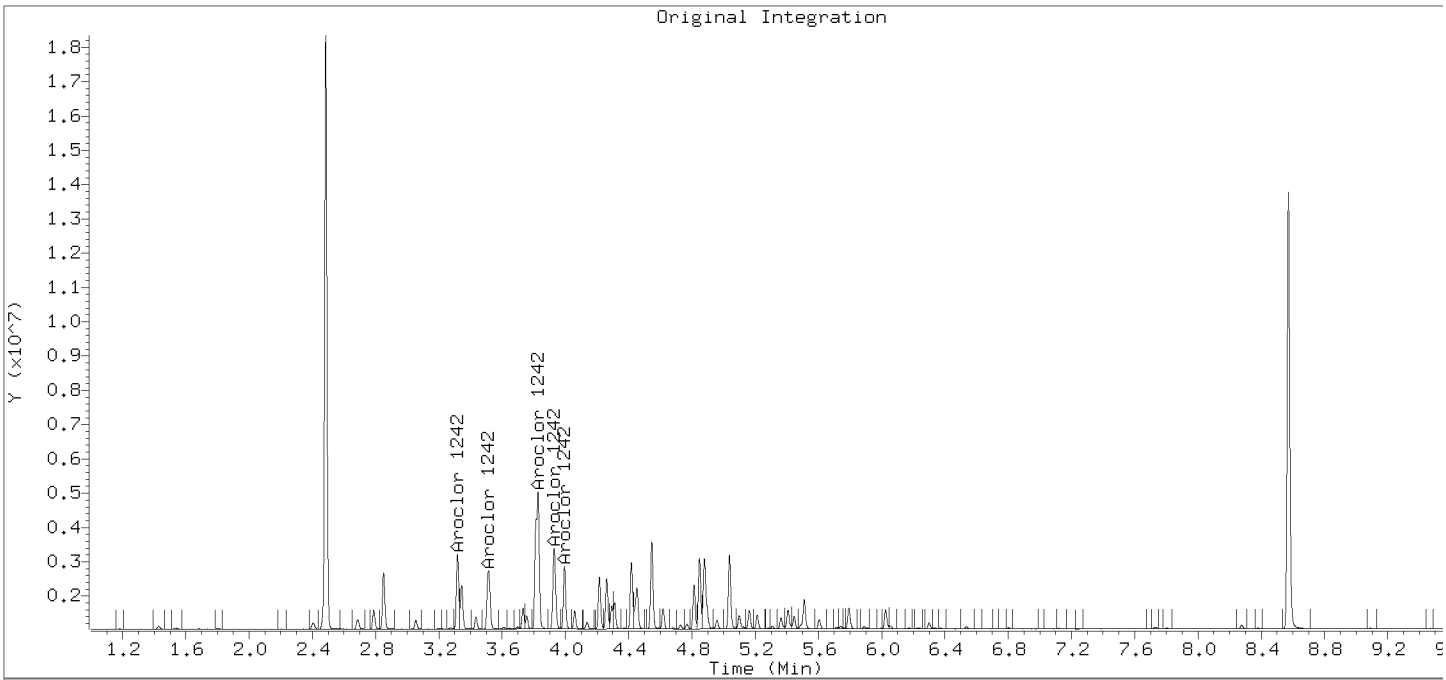
Operator: BLM

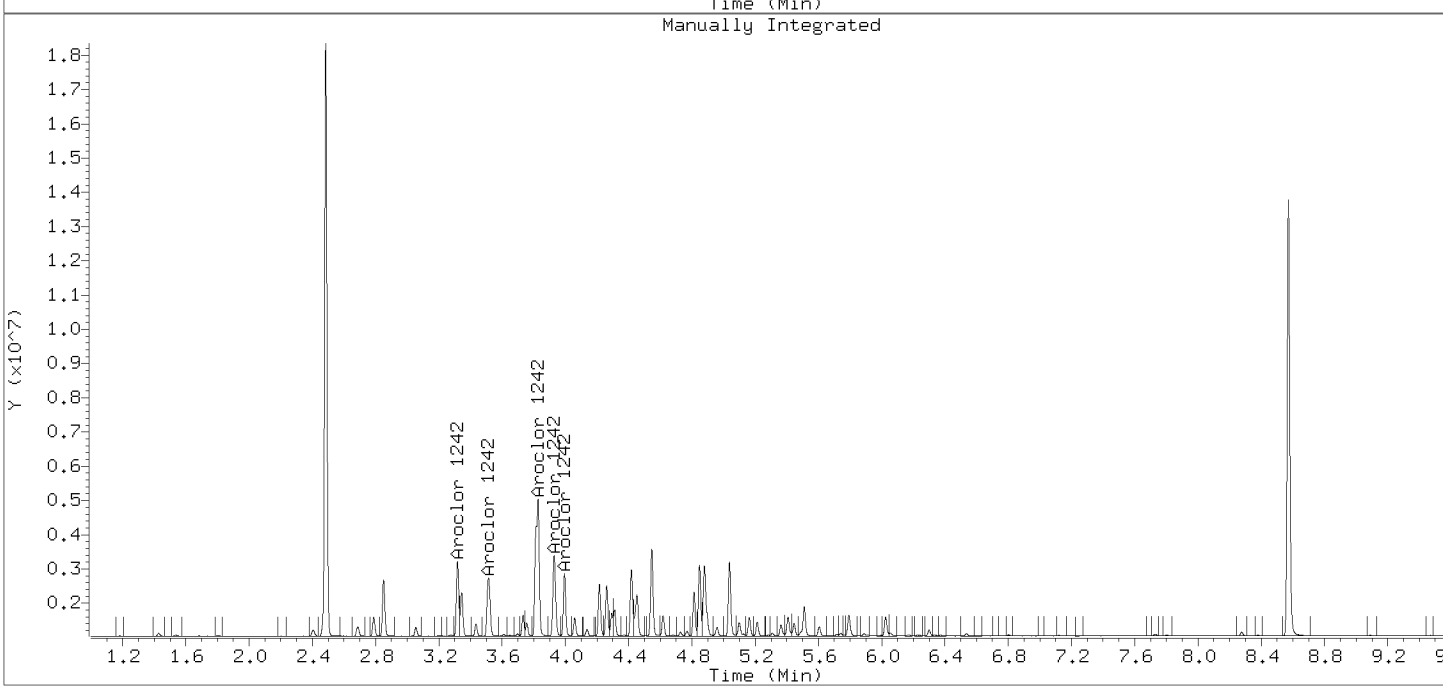
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

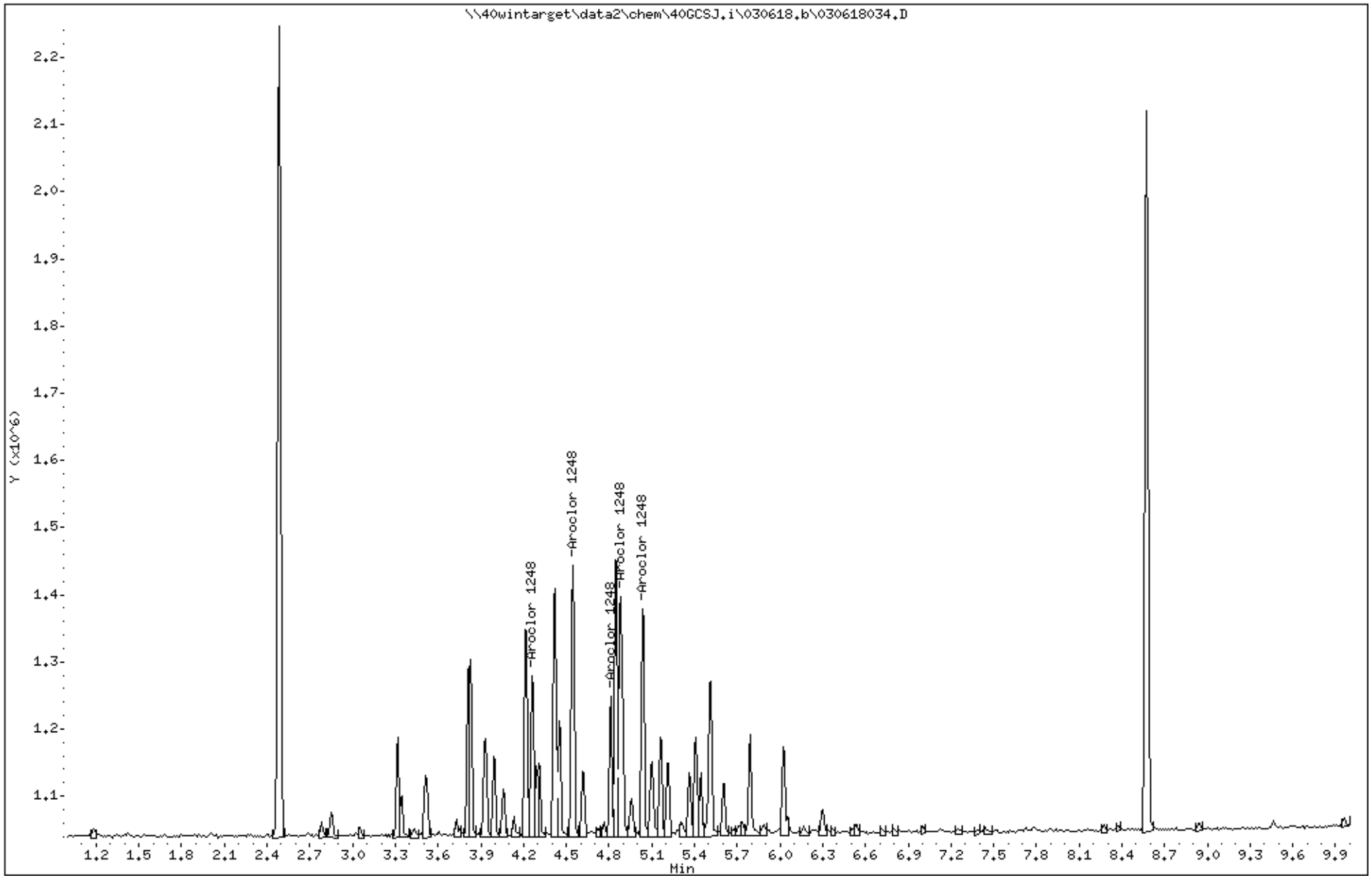
M - Compound response manually integrated.

Review Codes Legend

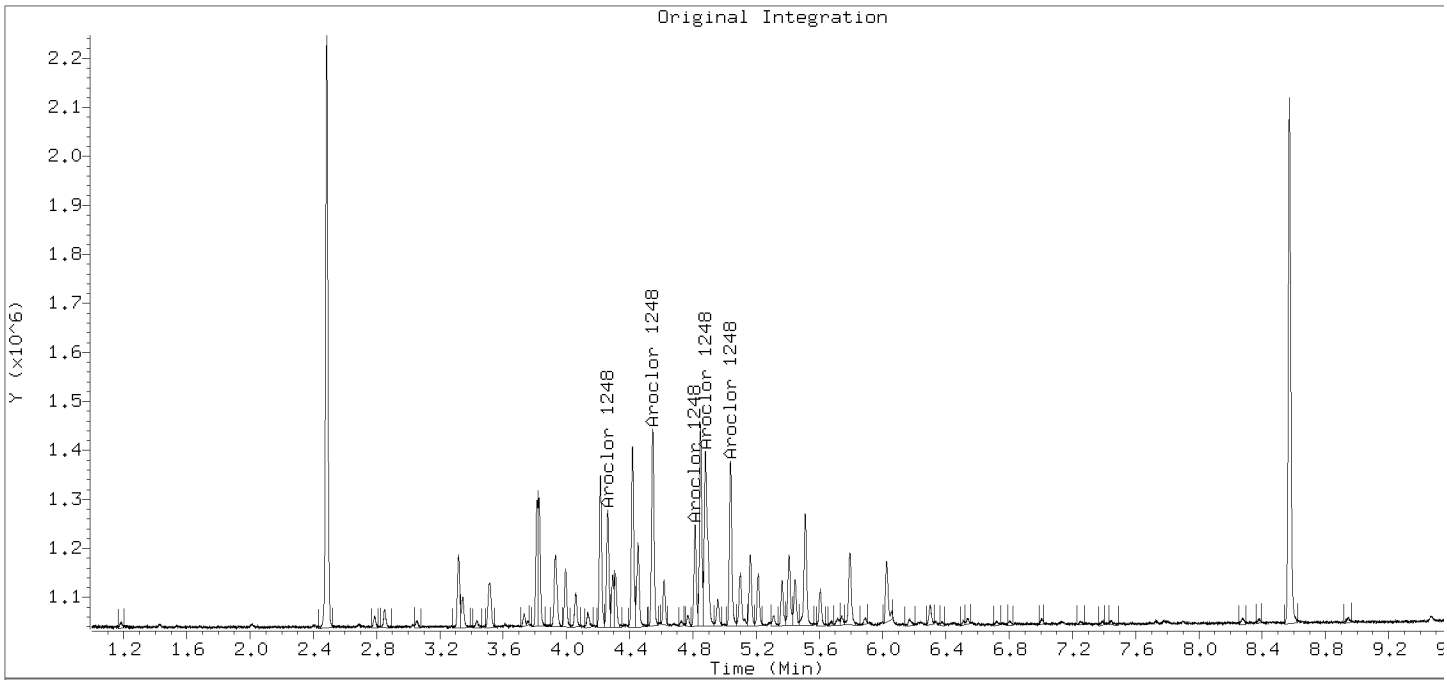
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

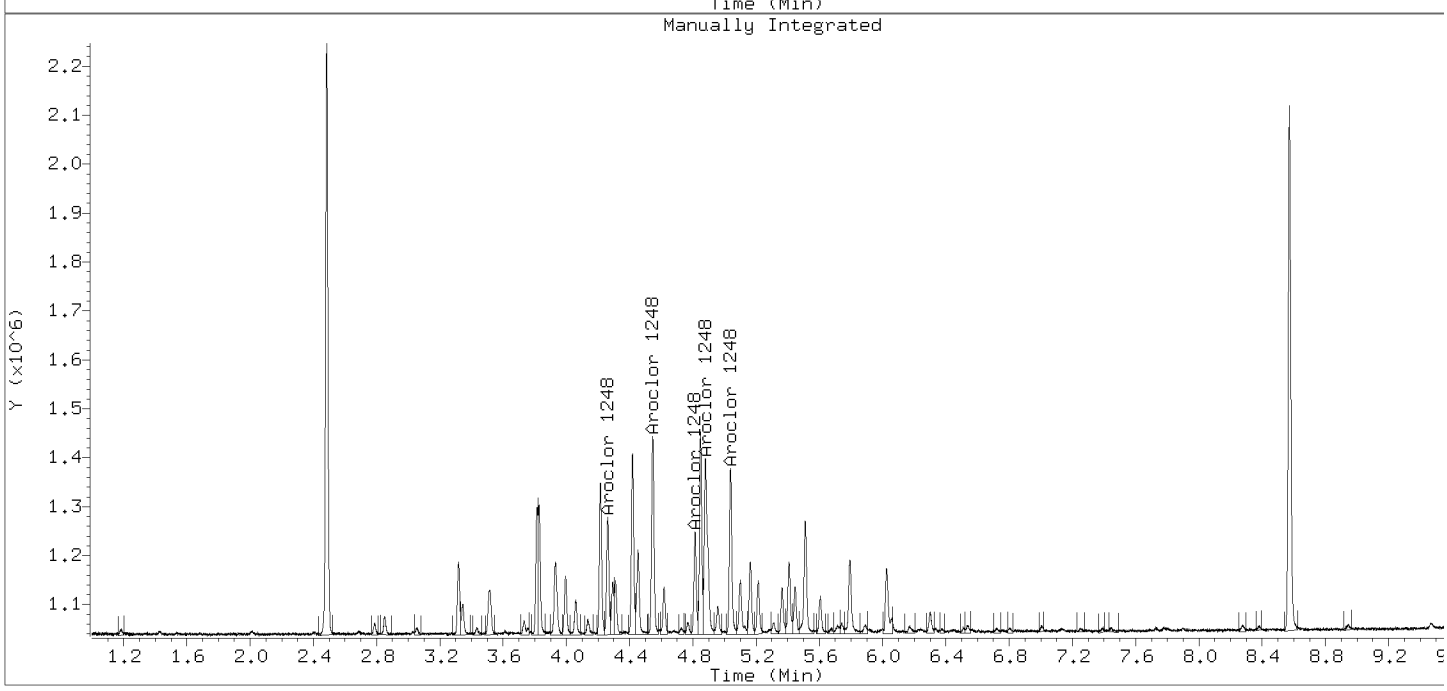
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

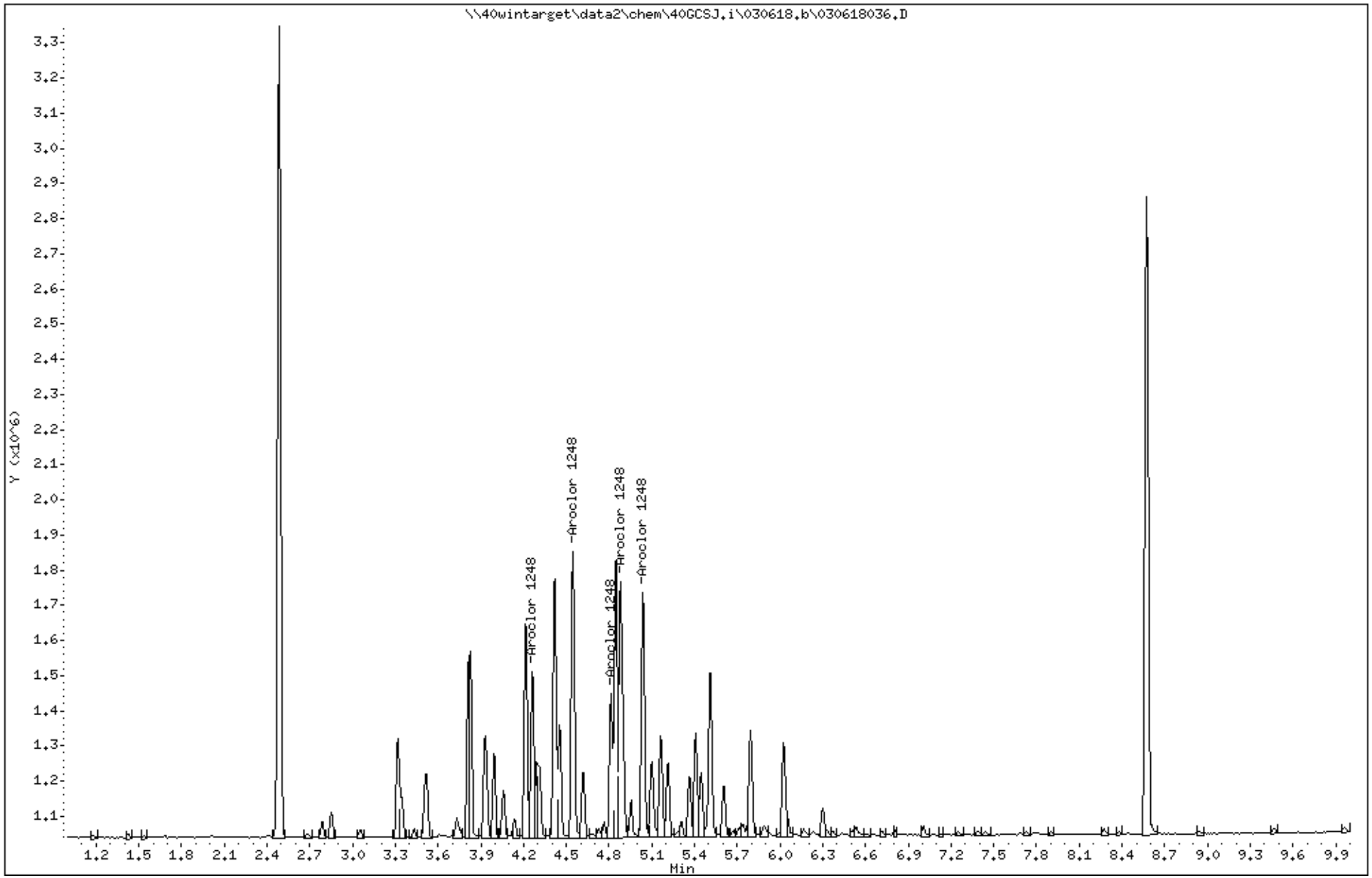
M - Compound response manually integrated.

Review Codes Legend

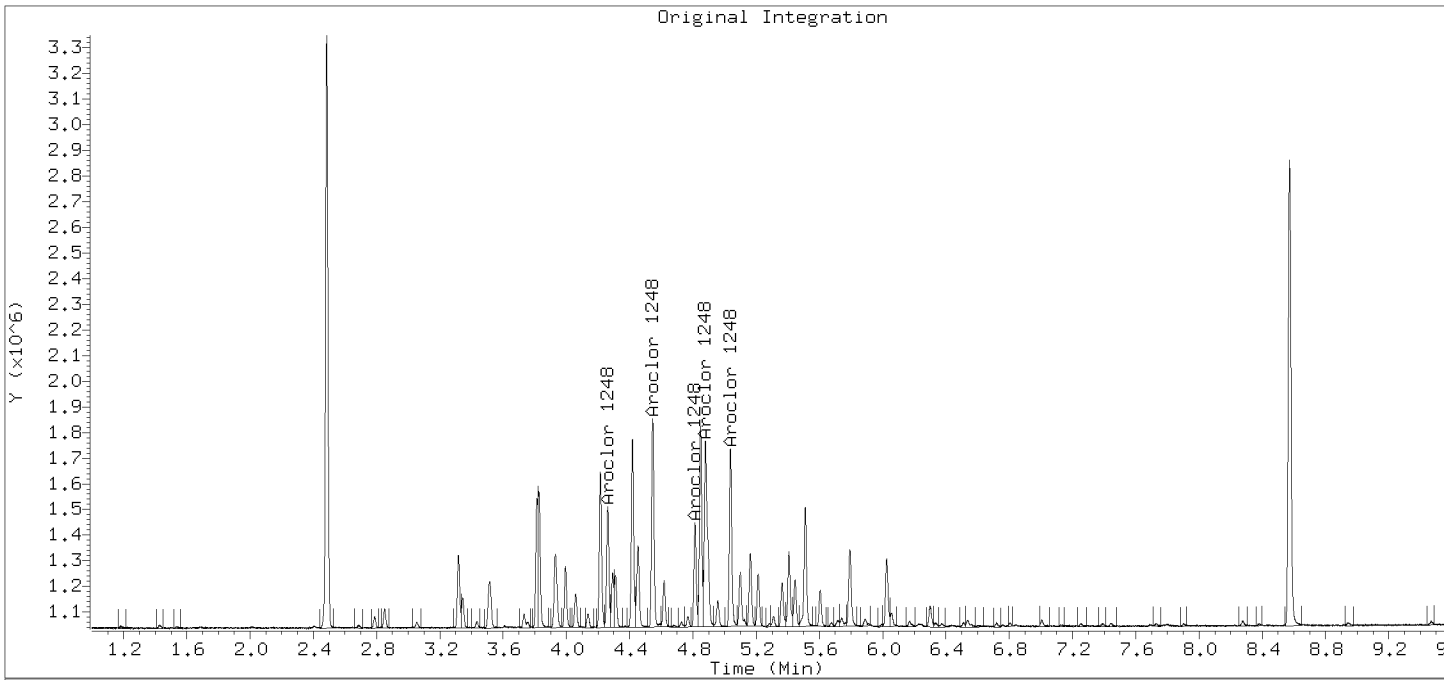
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

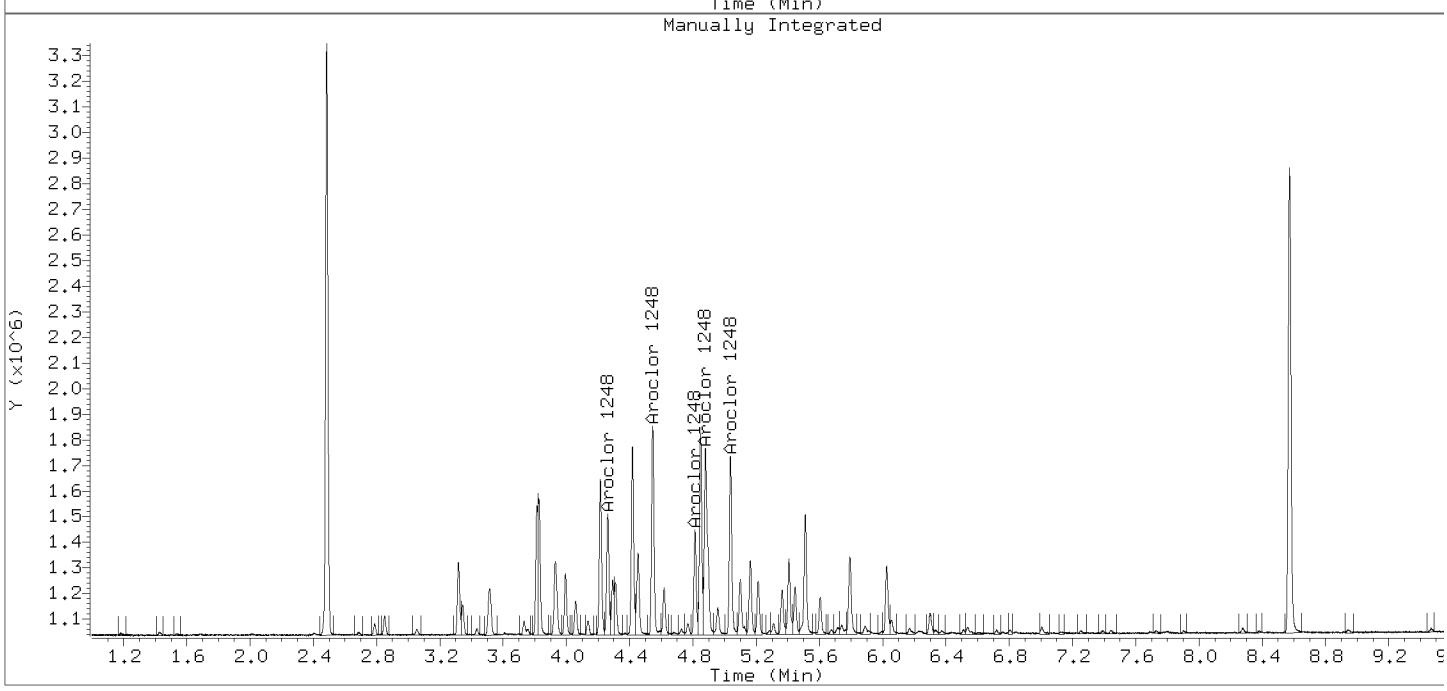
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

```
Total unknown % area = 80
```

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

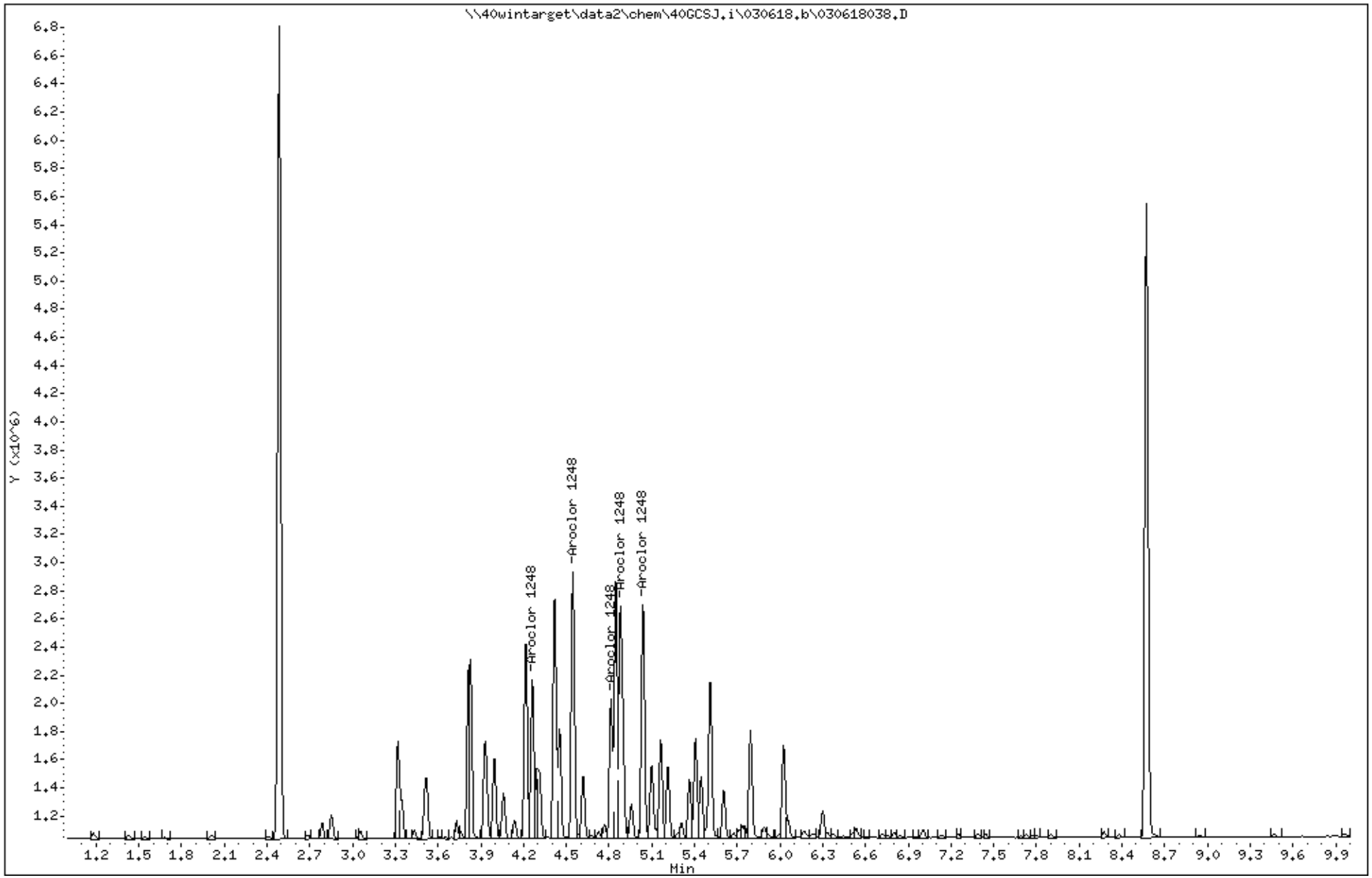
M - Compound response manually integrated.

Review Codes Legend

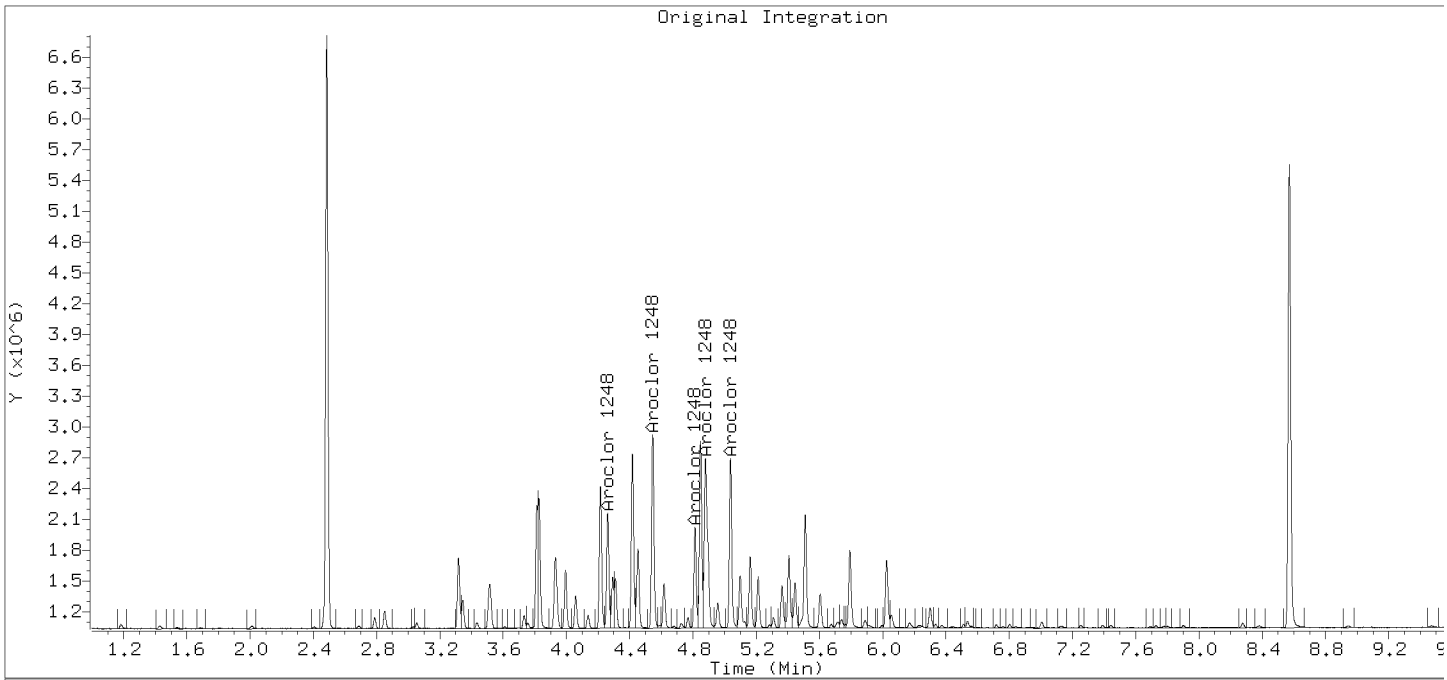
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

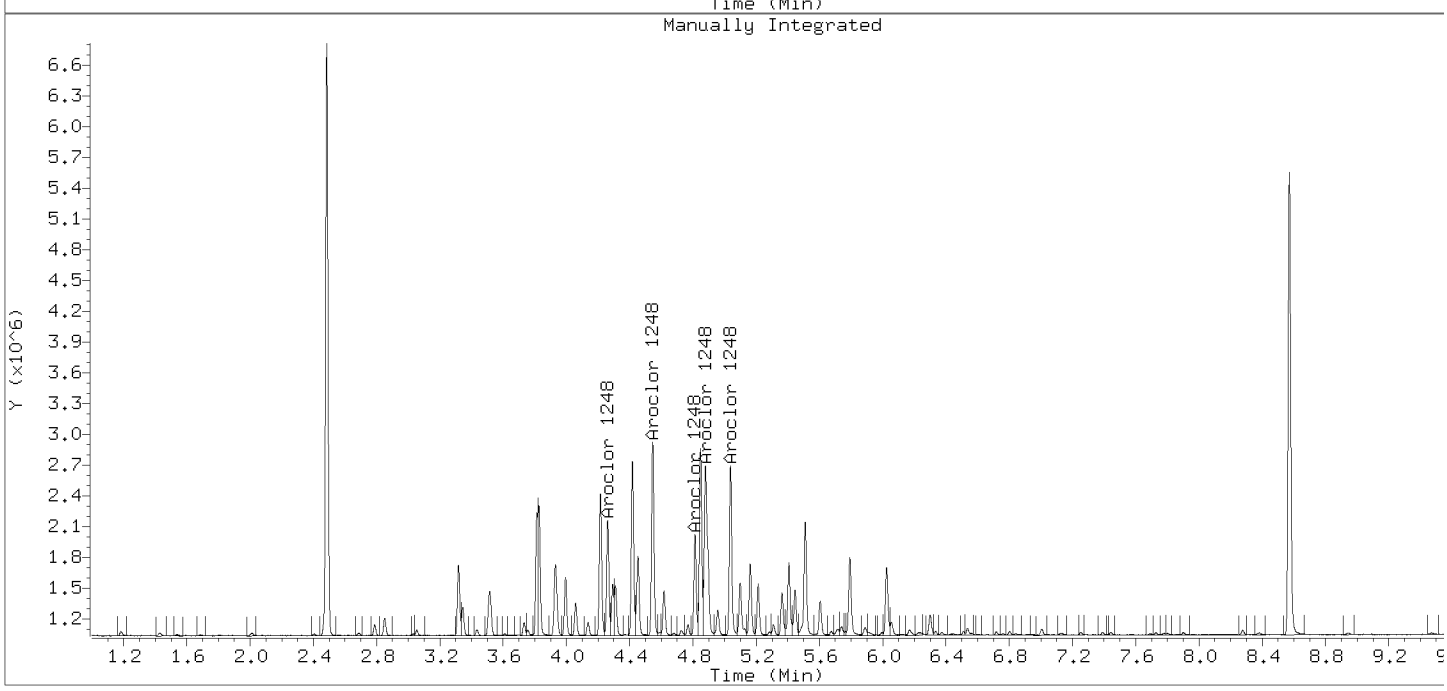
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D Page 2
Report Date: 22-Mar-2018 13:34

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

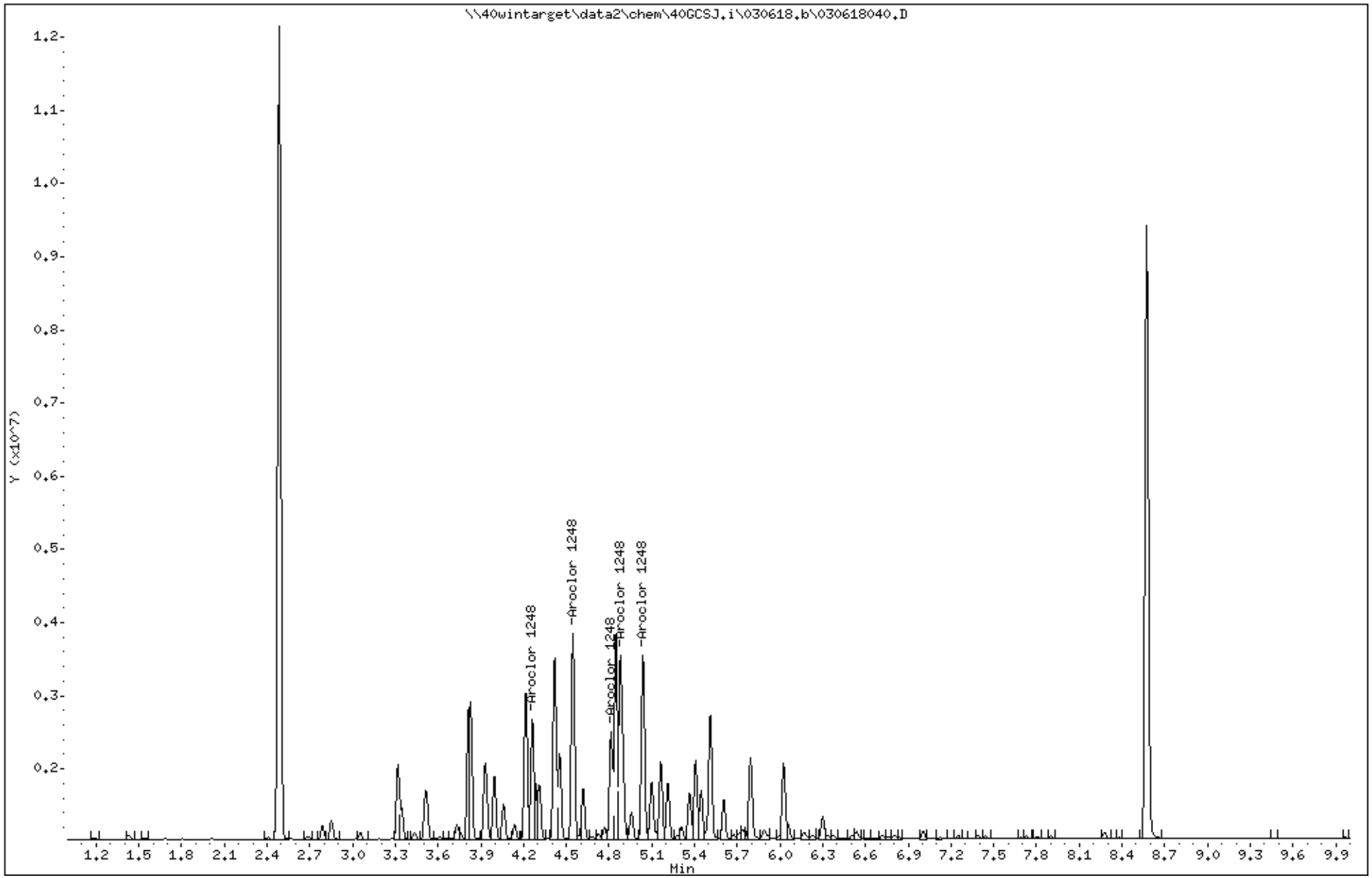
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

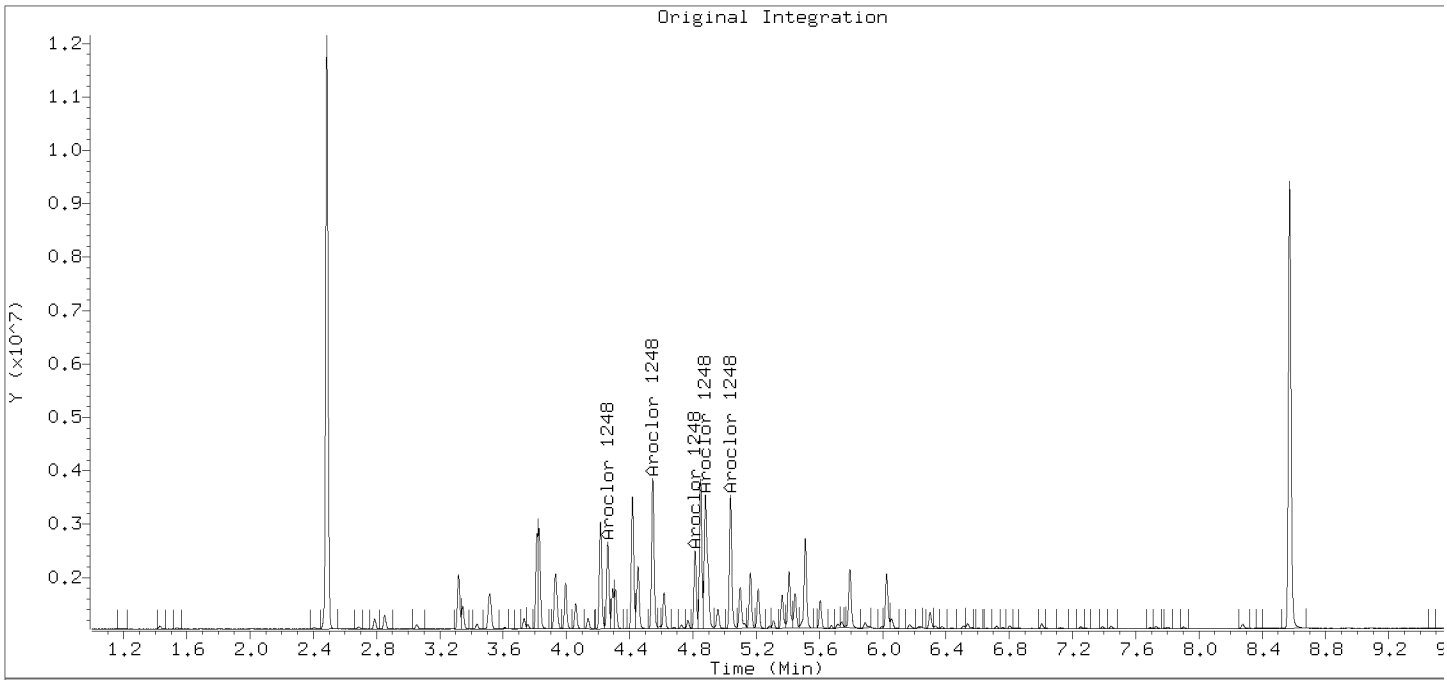
Operator: BLM

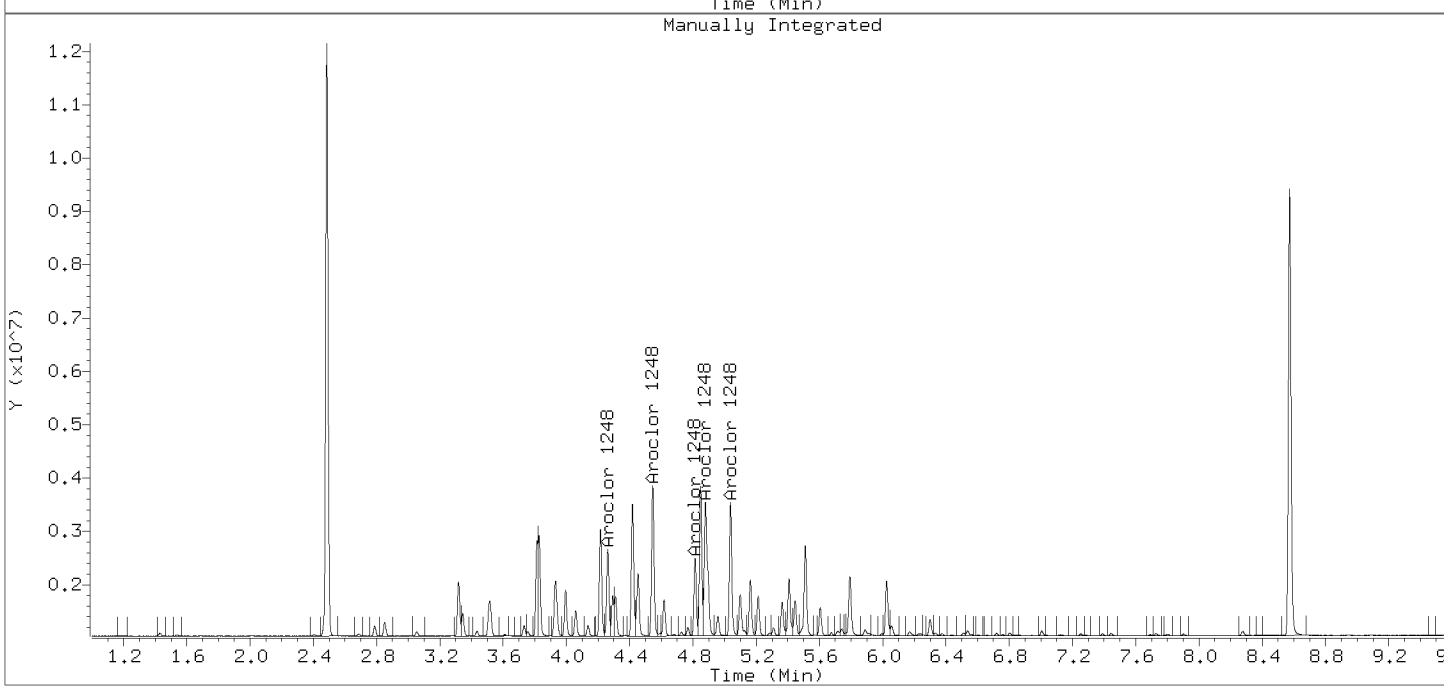
Column phase: ZB-1ms

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

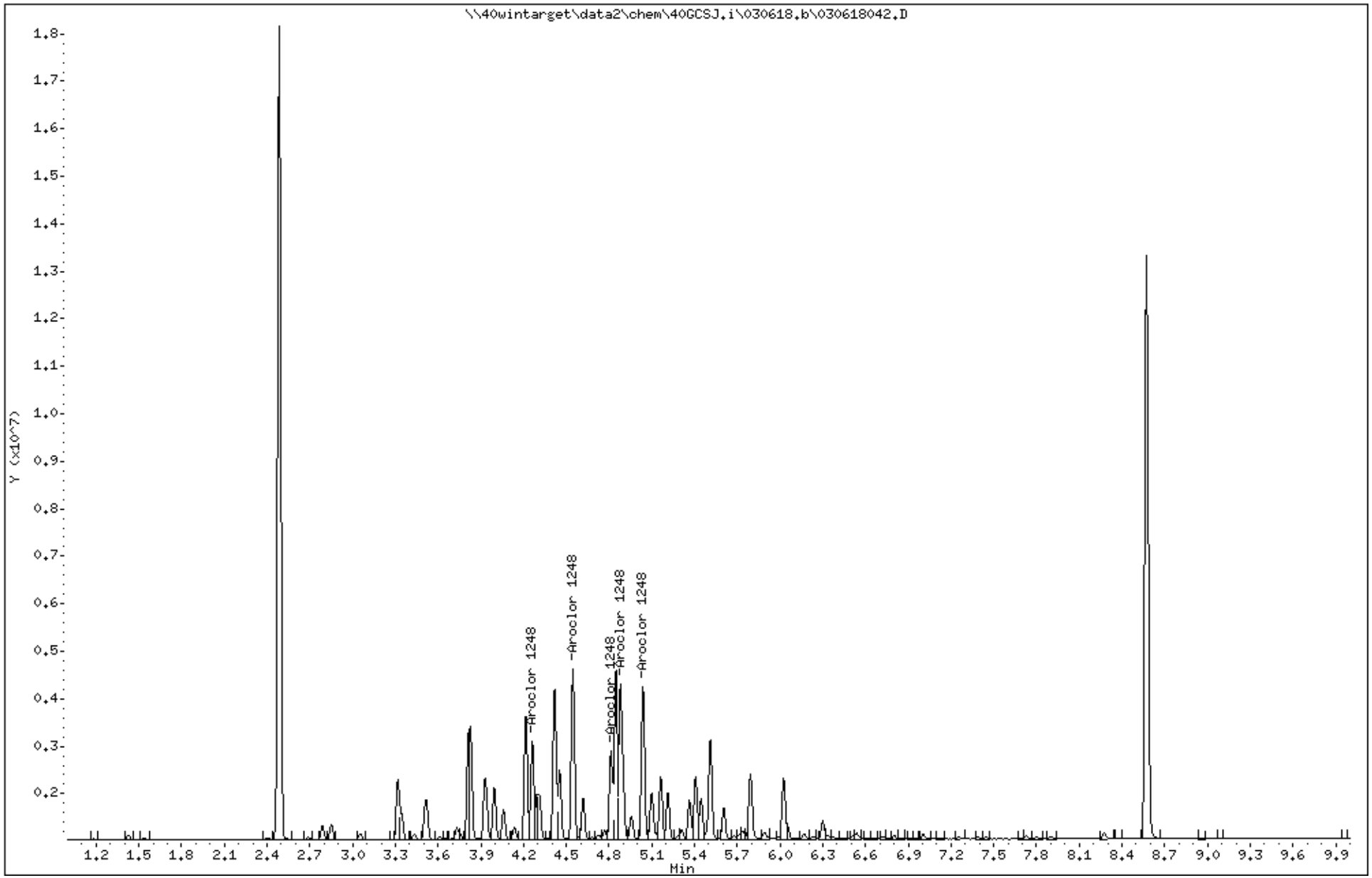
M - Compound response manually integrated.

Review Codes Legend

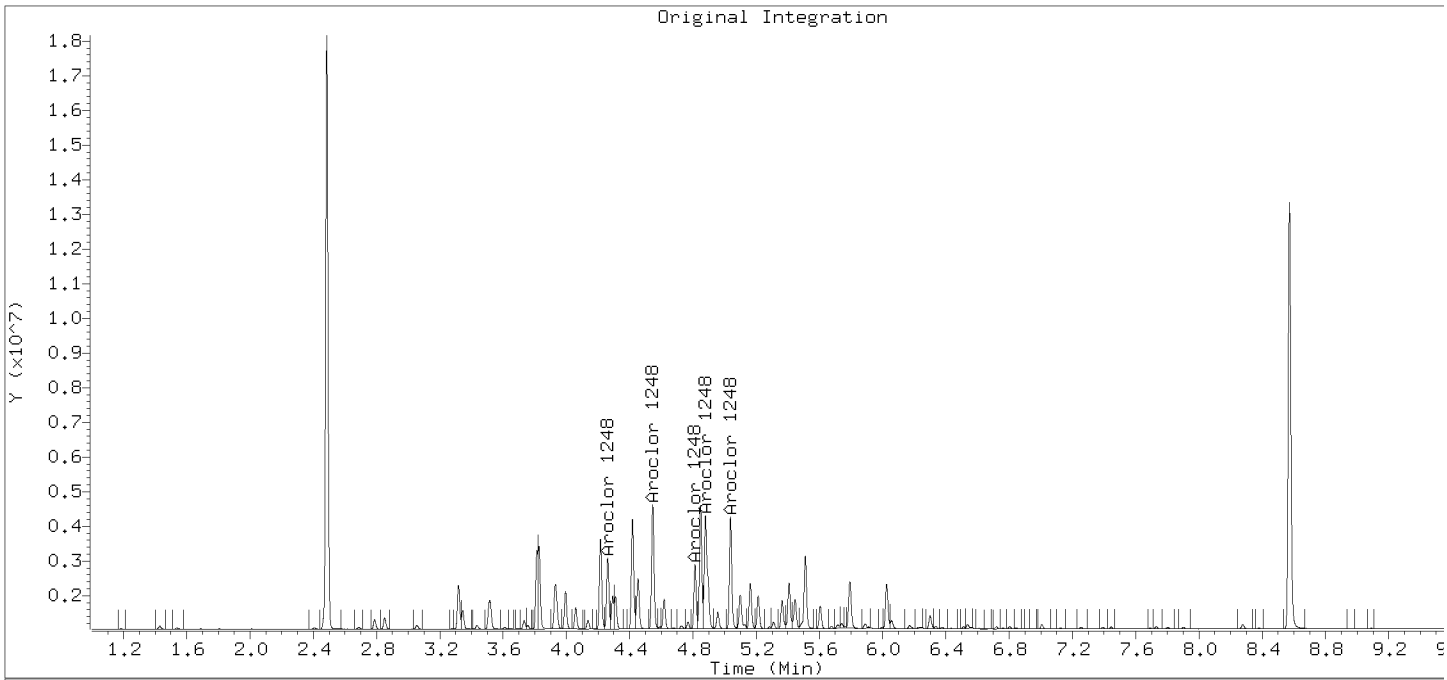
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

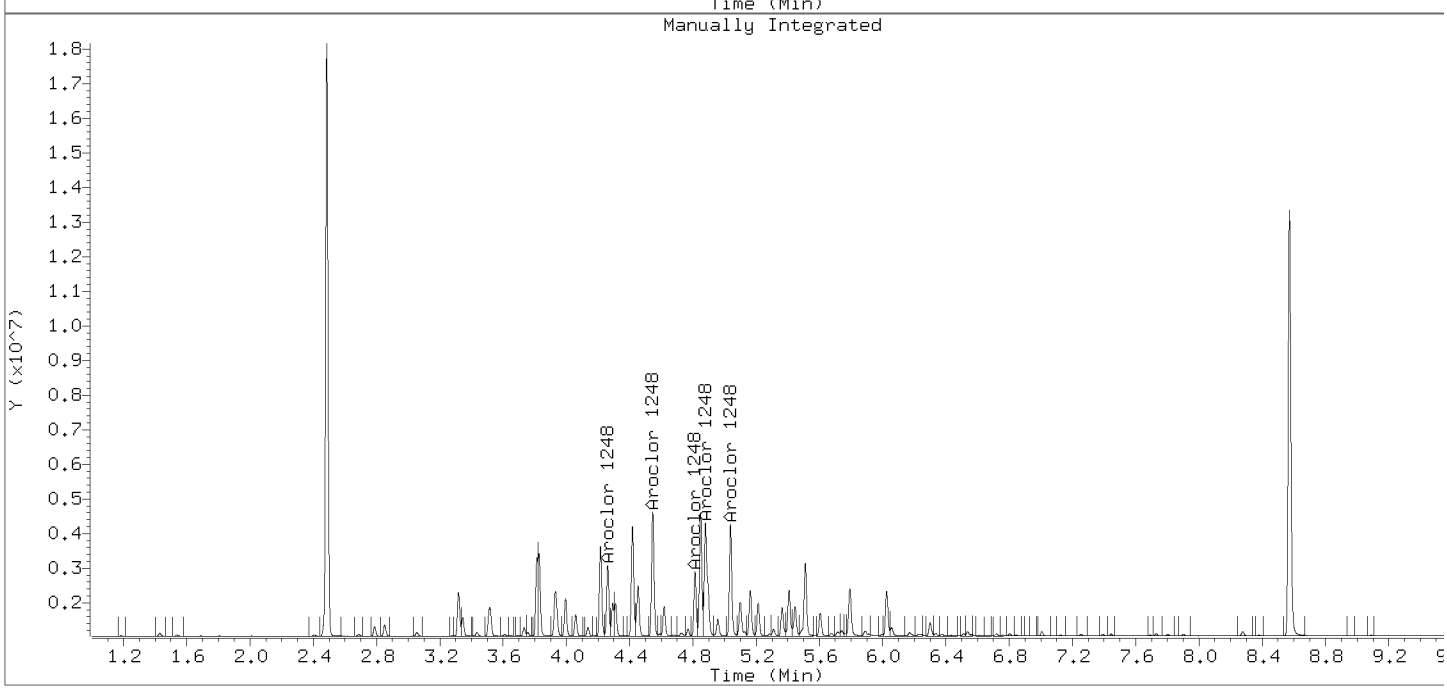
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Date : 06-MAR-2018 16:25
Client ID: 1248-CAL5D
Sample Info: 1248-CAL5D, 185551:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

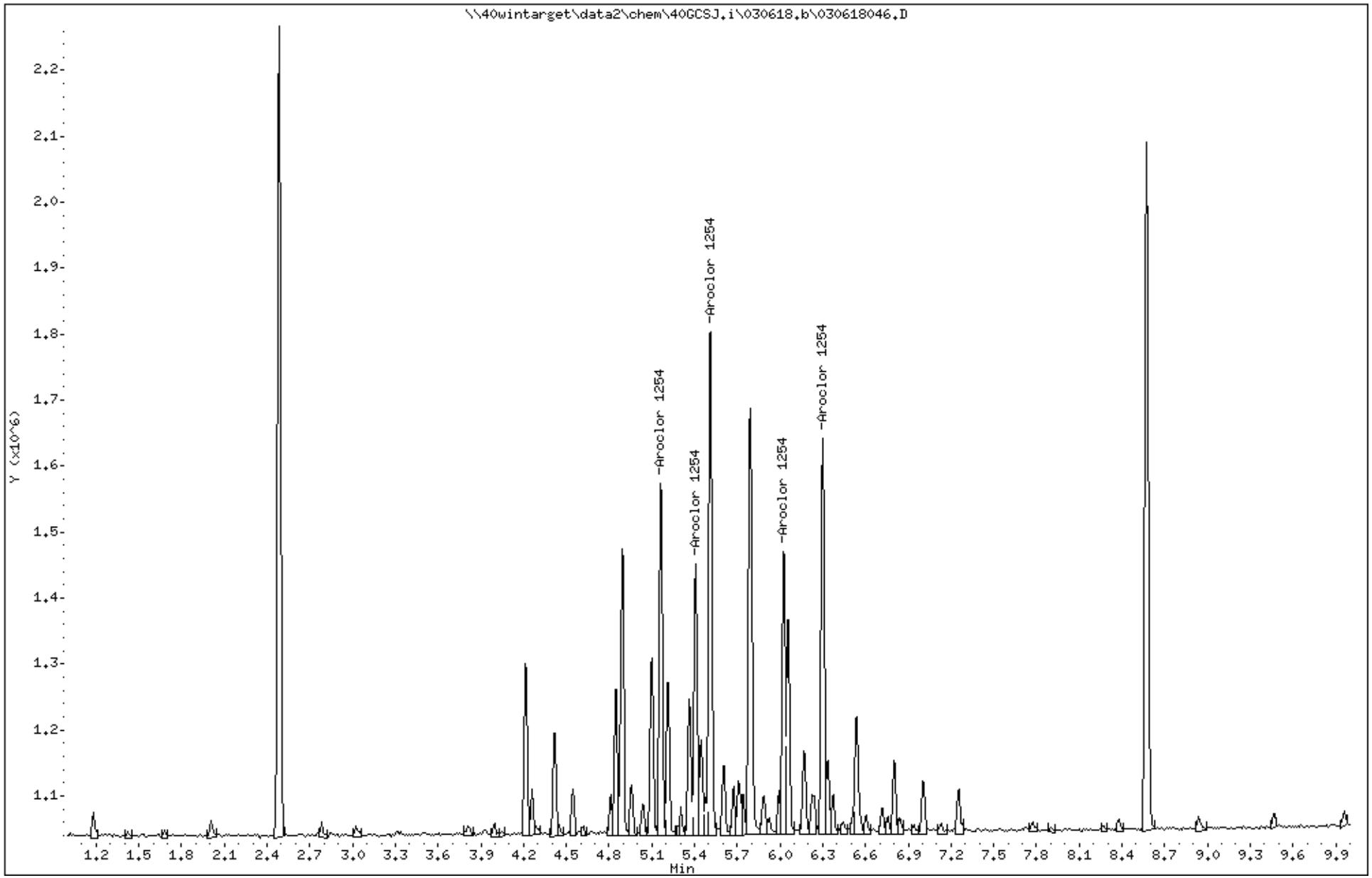
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

Instrument: 40GCSJ.i

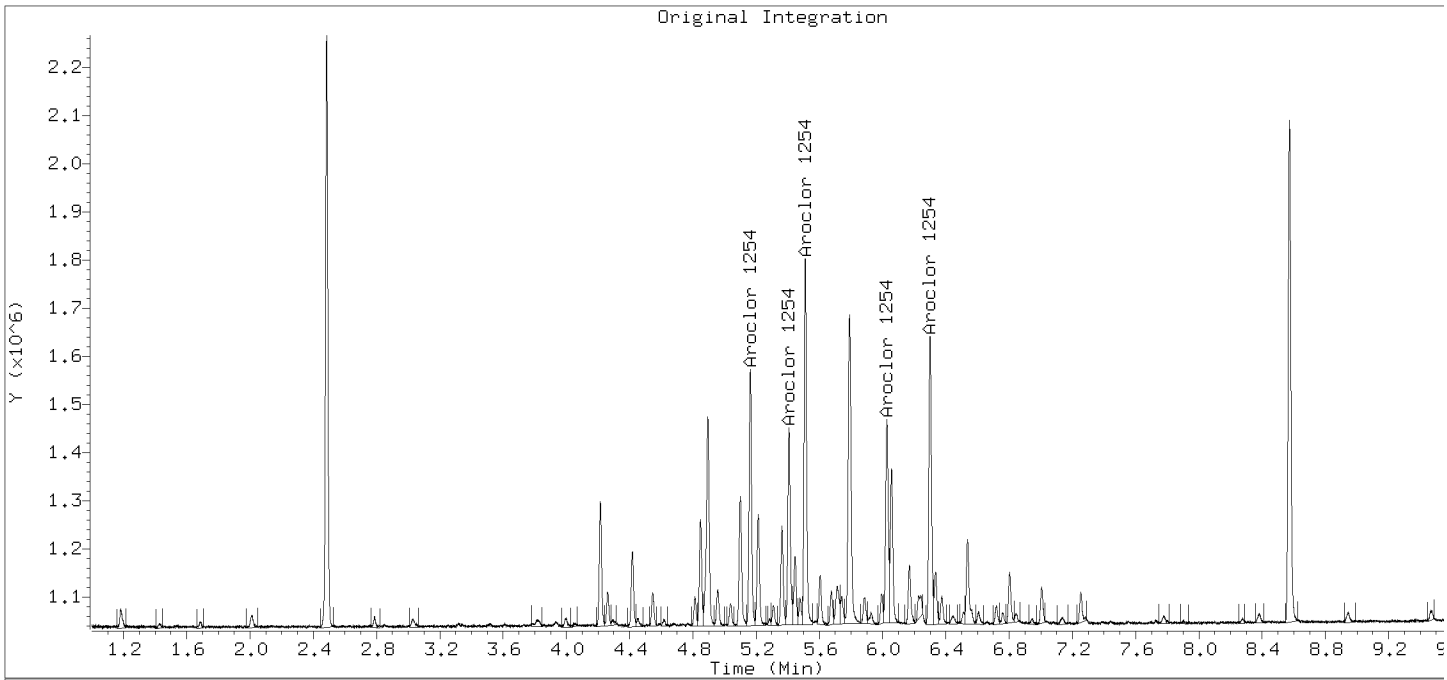
Operator: BLM

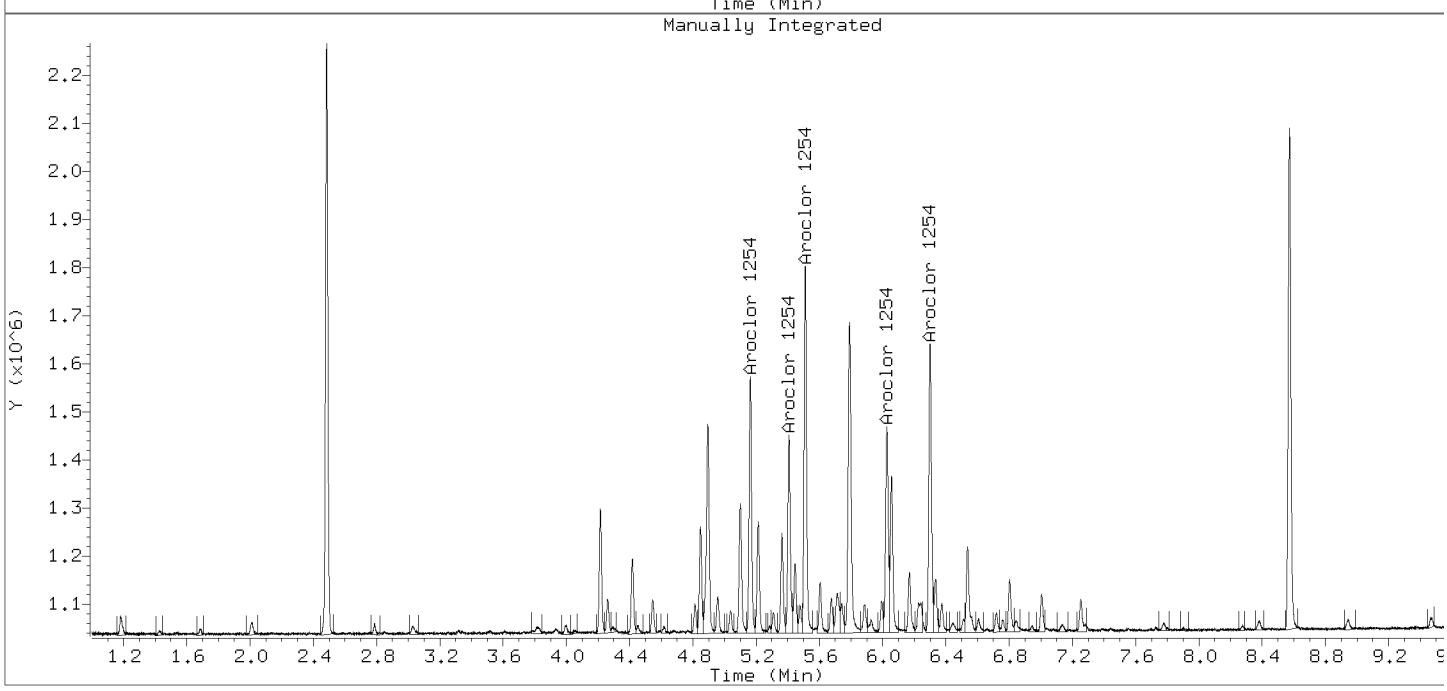
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

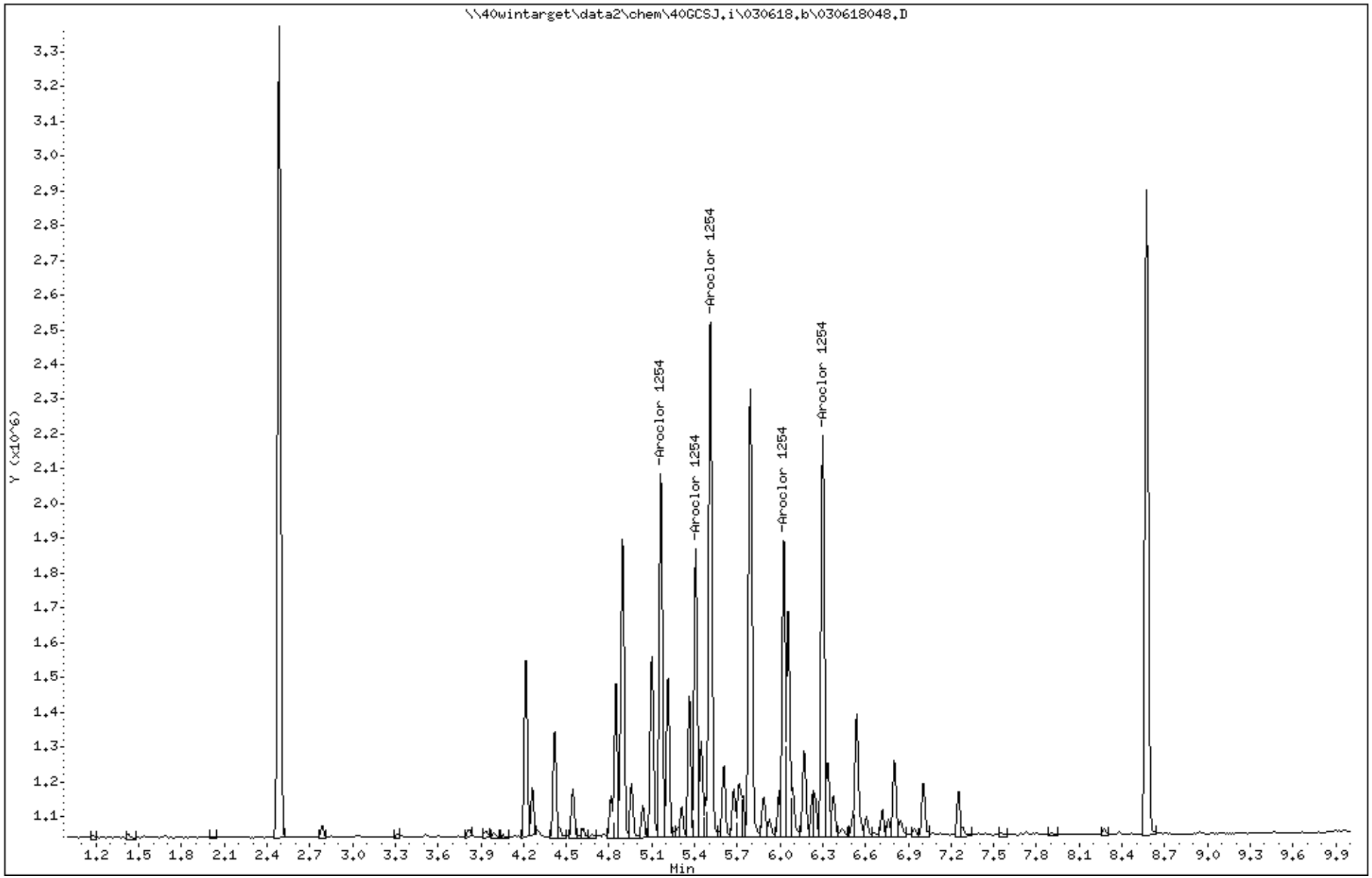
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i

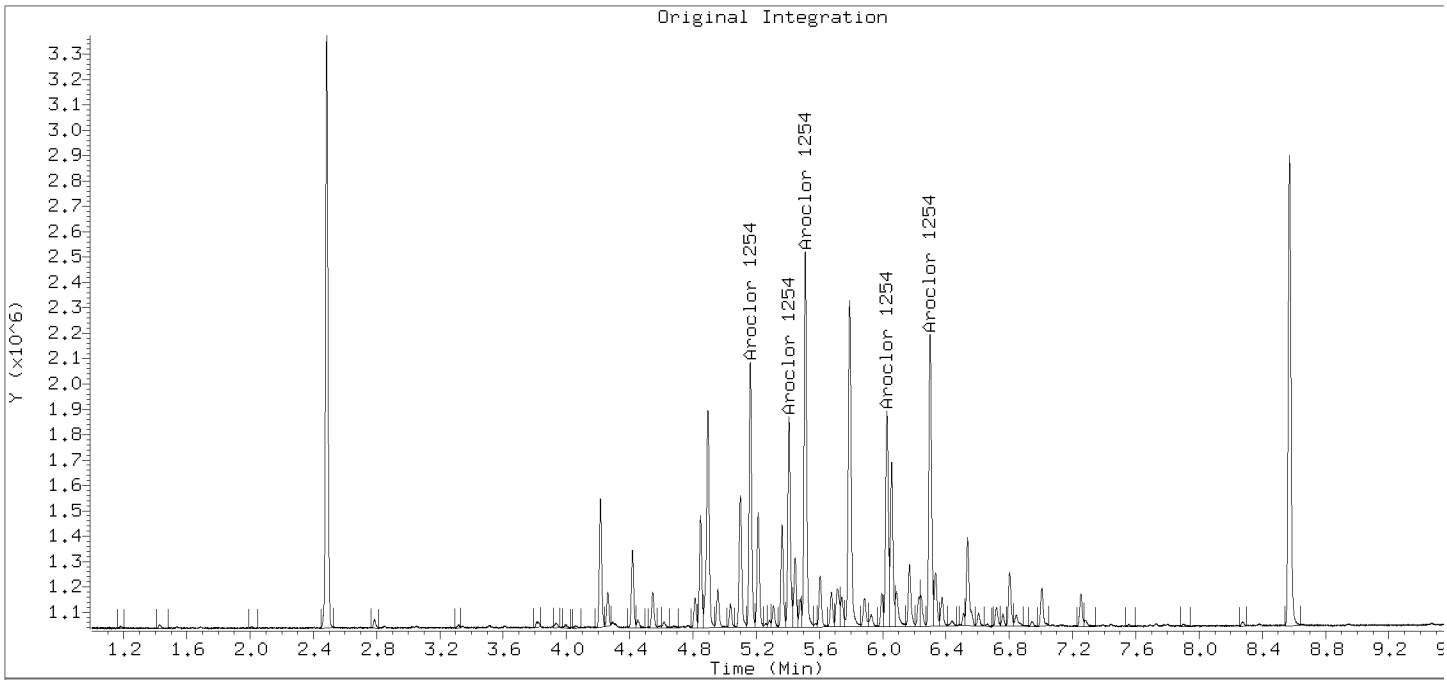
Operator: BLM

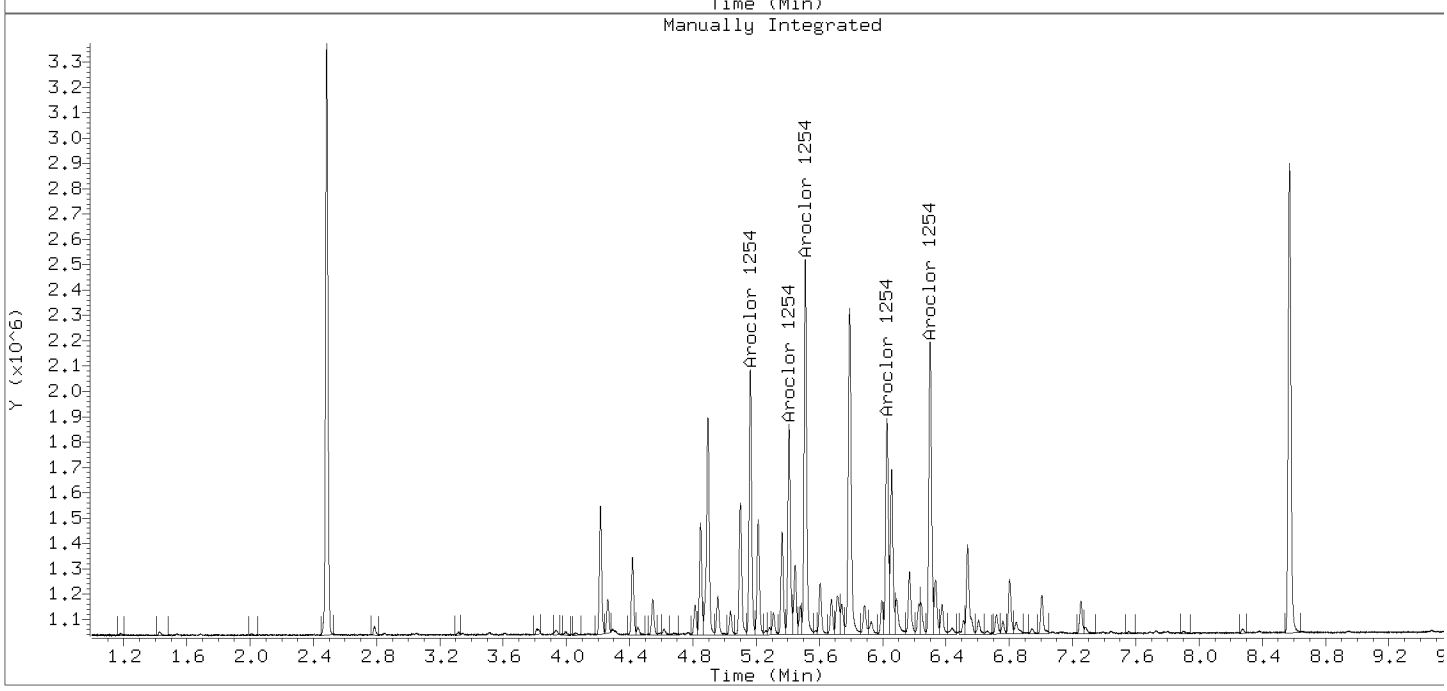
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

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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

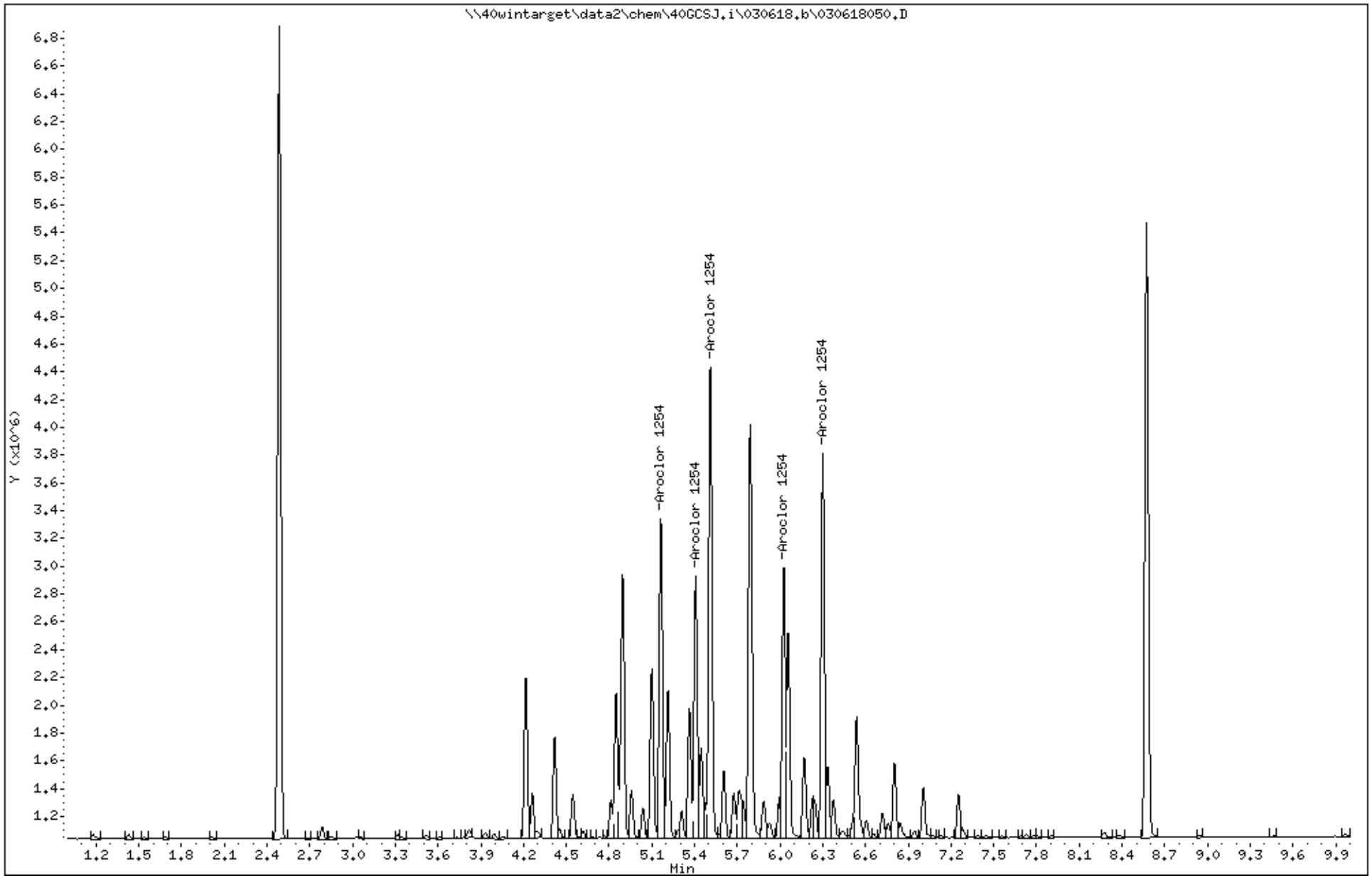
M - Compound response manually integrated.

Review Codes Legend

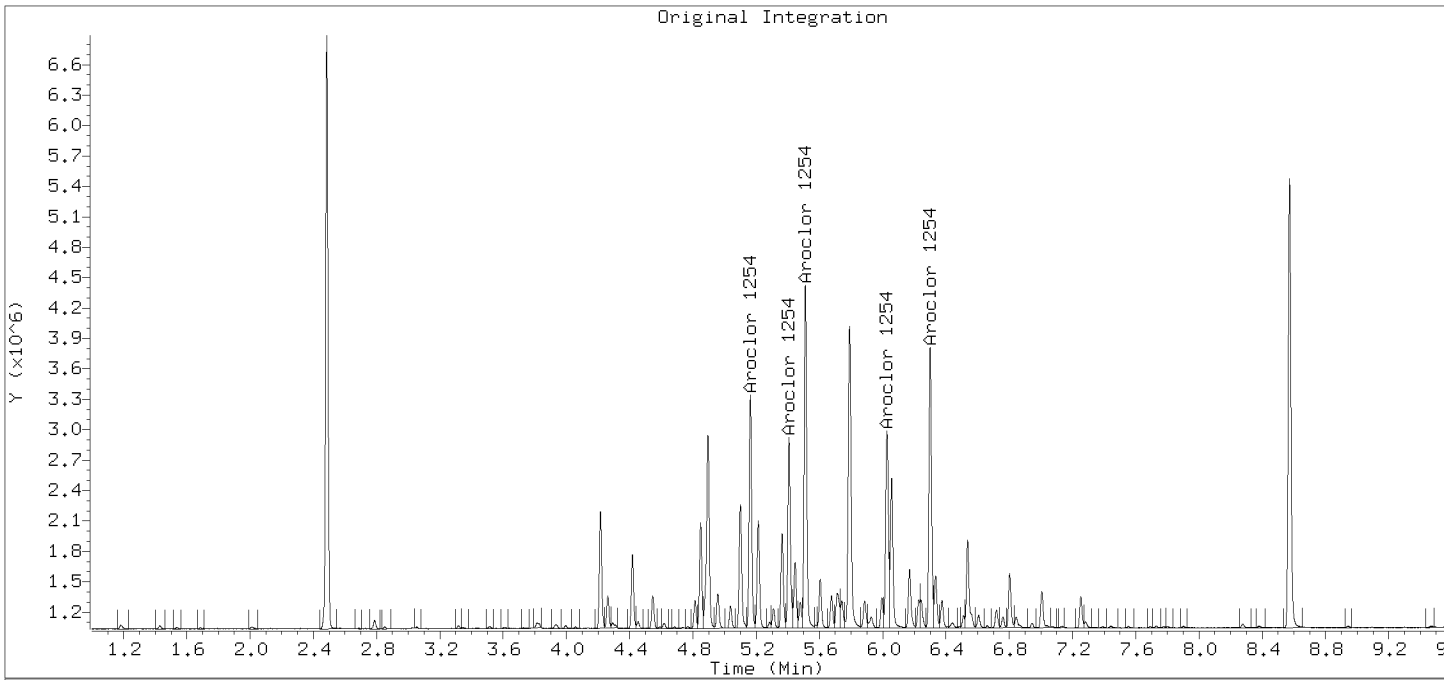
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

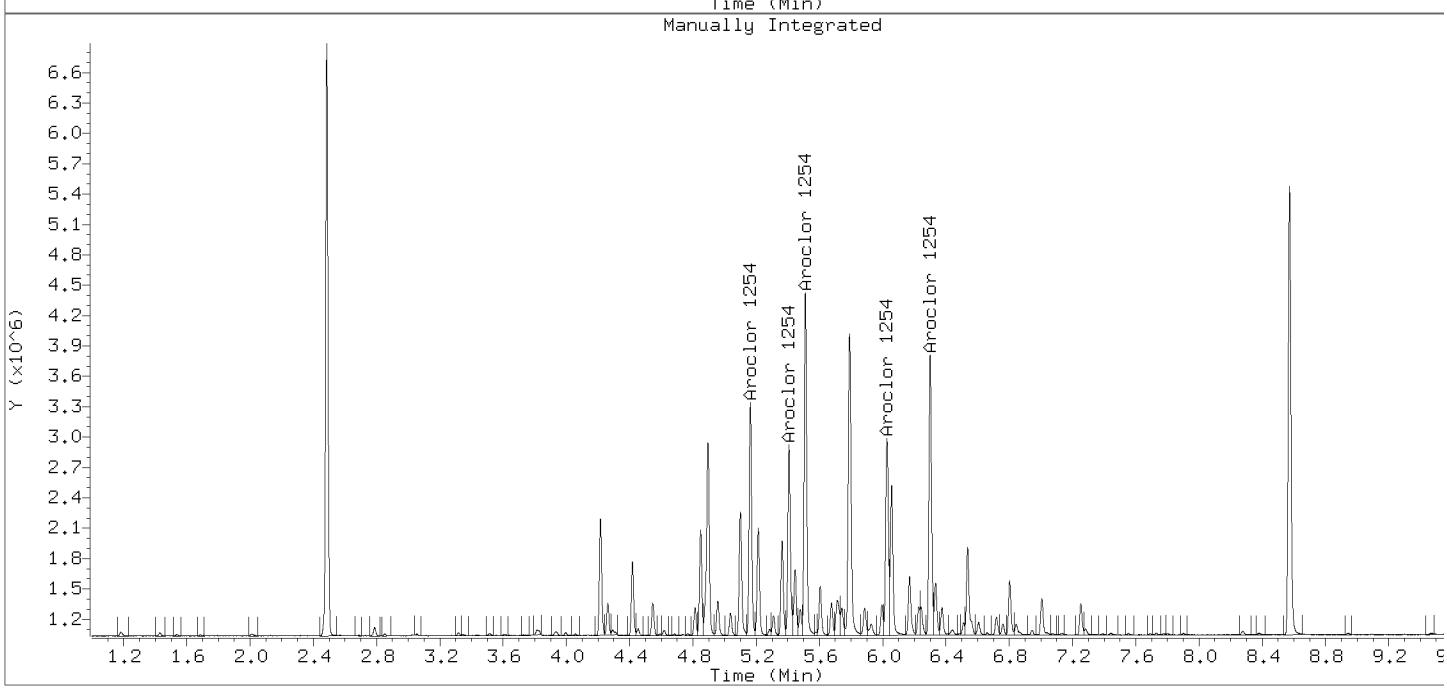
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Date : 06-MAR-2018 17:30
Client ID: 1254-CAL3C
Sample Info: 1254-CAL3C, 185554:1

Instrument: 40GCSJ.i
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.

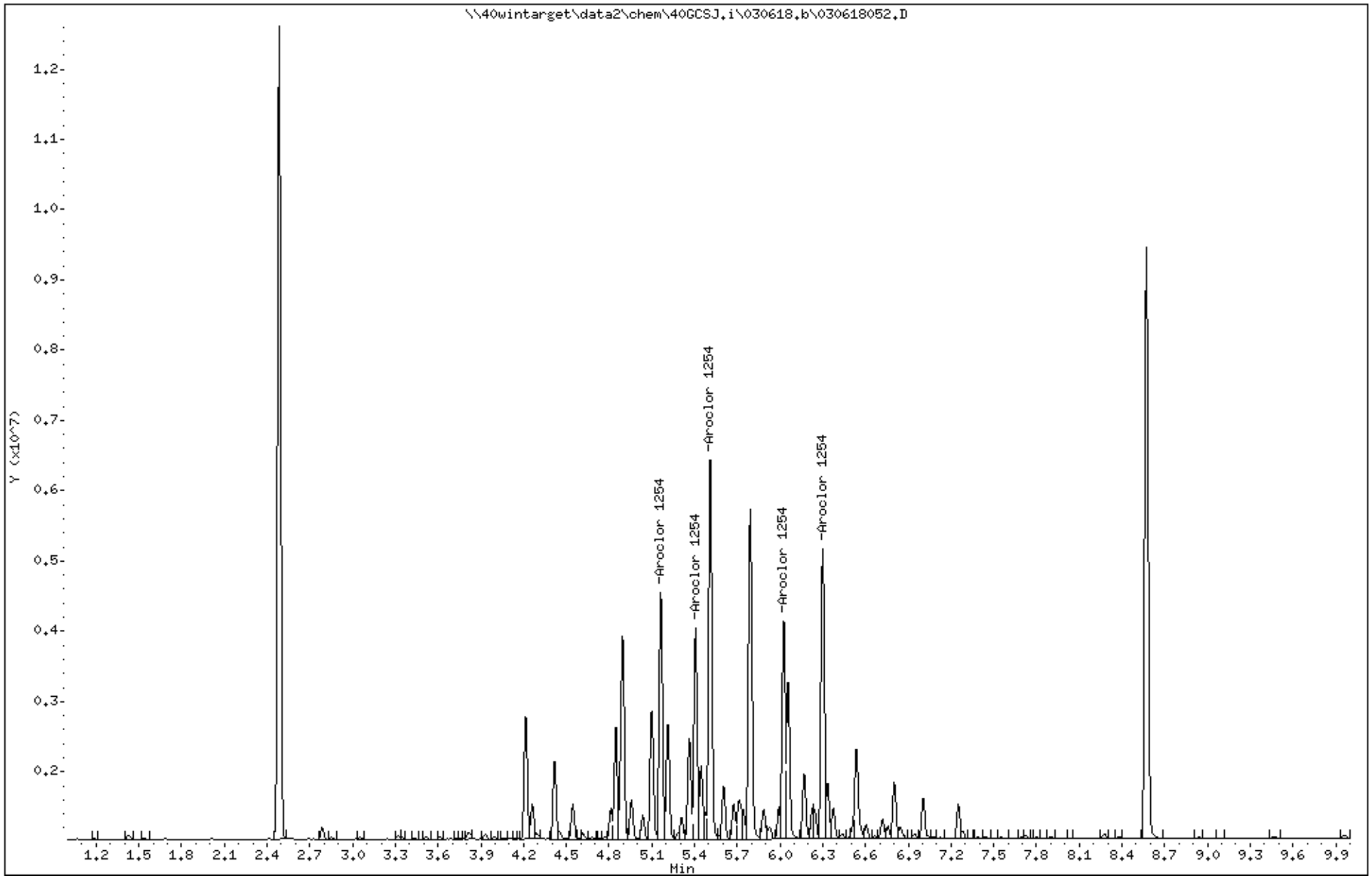
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Date : 06-MAR-2018 17:46
Client ID: 1254-CAL4C
Sample Info: 1254-CAL4C, 185555:1

Instrument: 40GCSJ.i

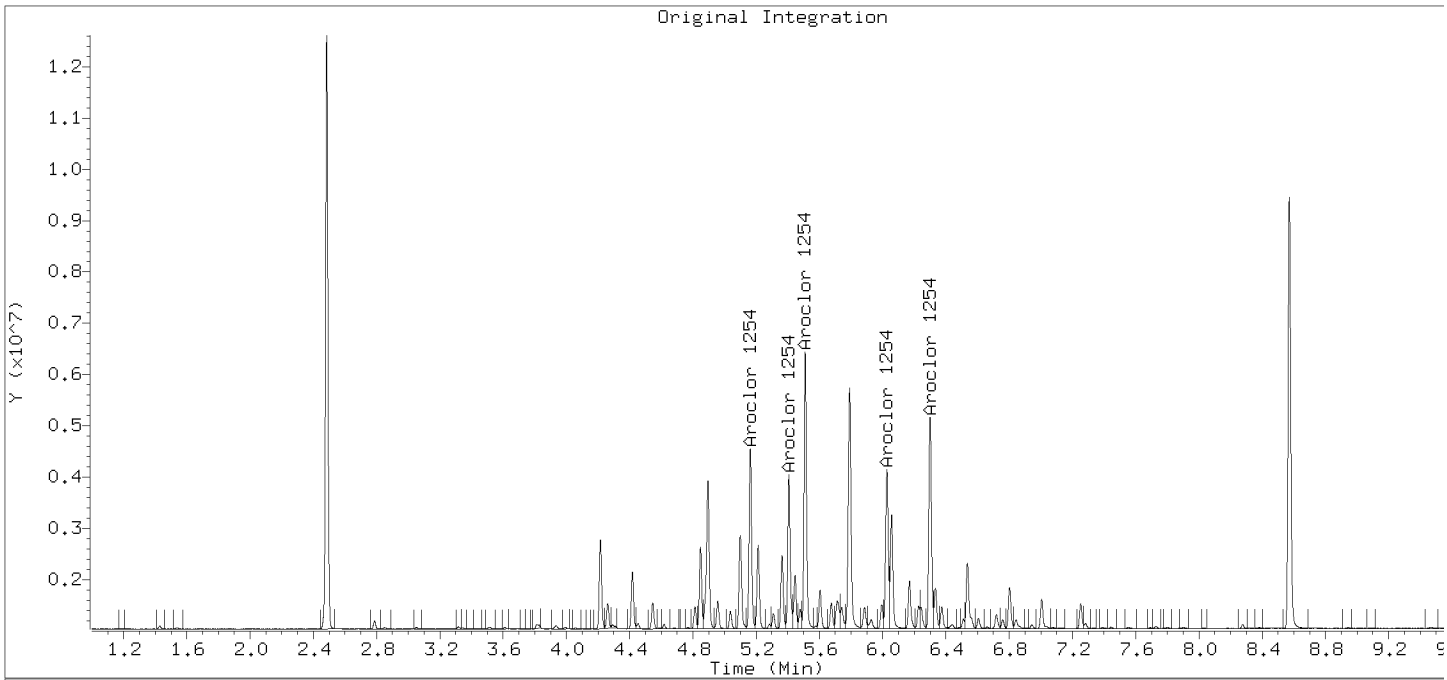
Operator: BLM

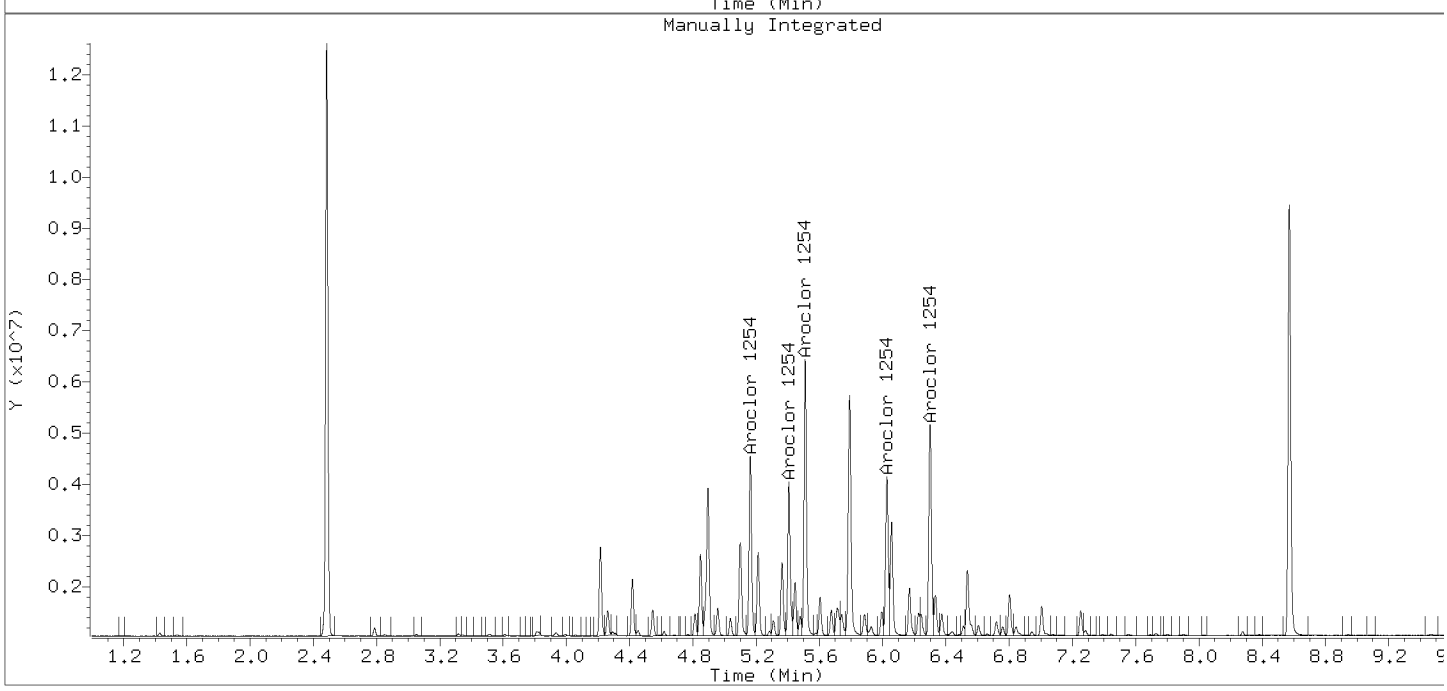
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

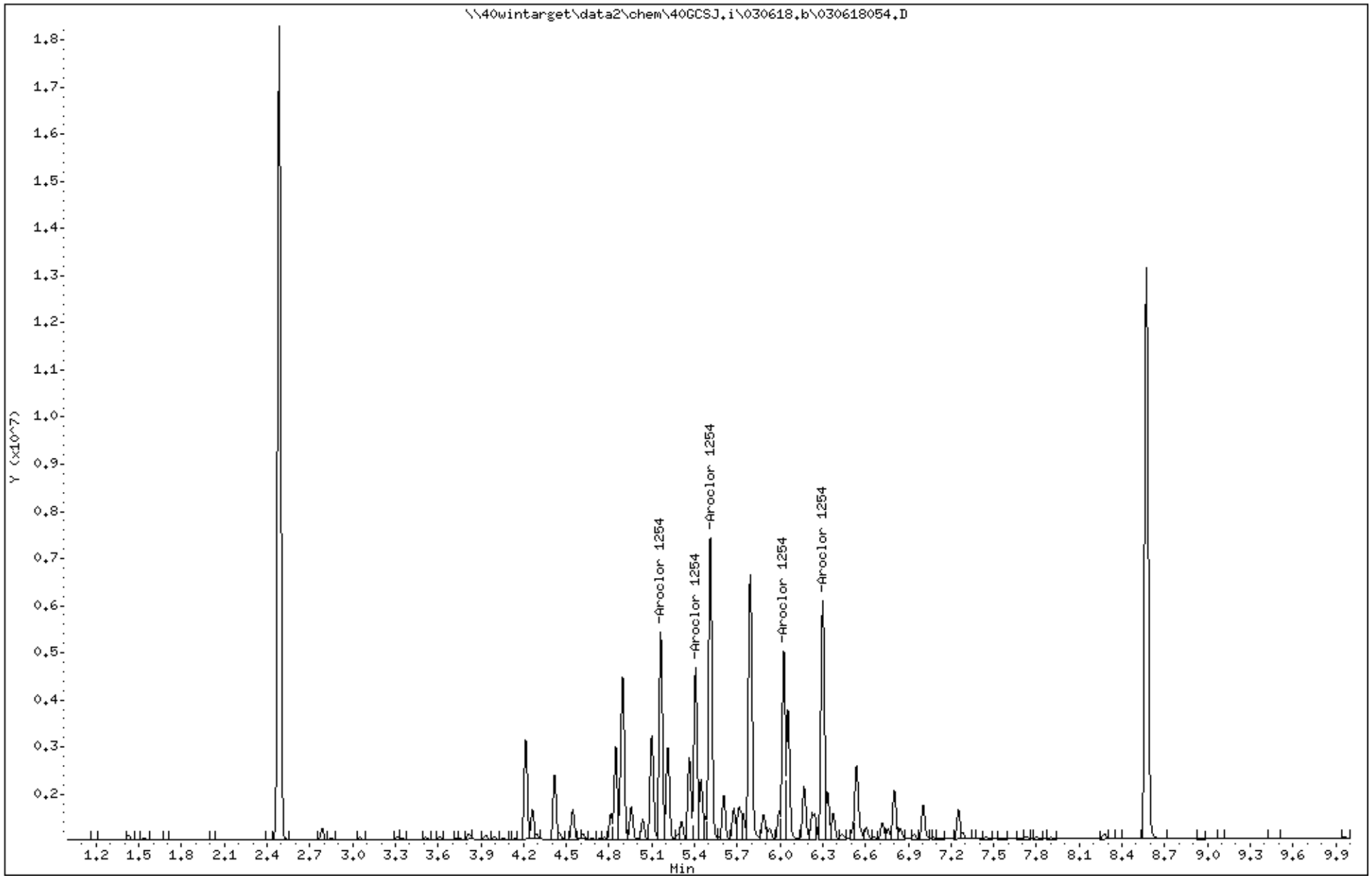
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

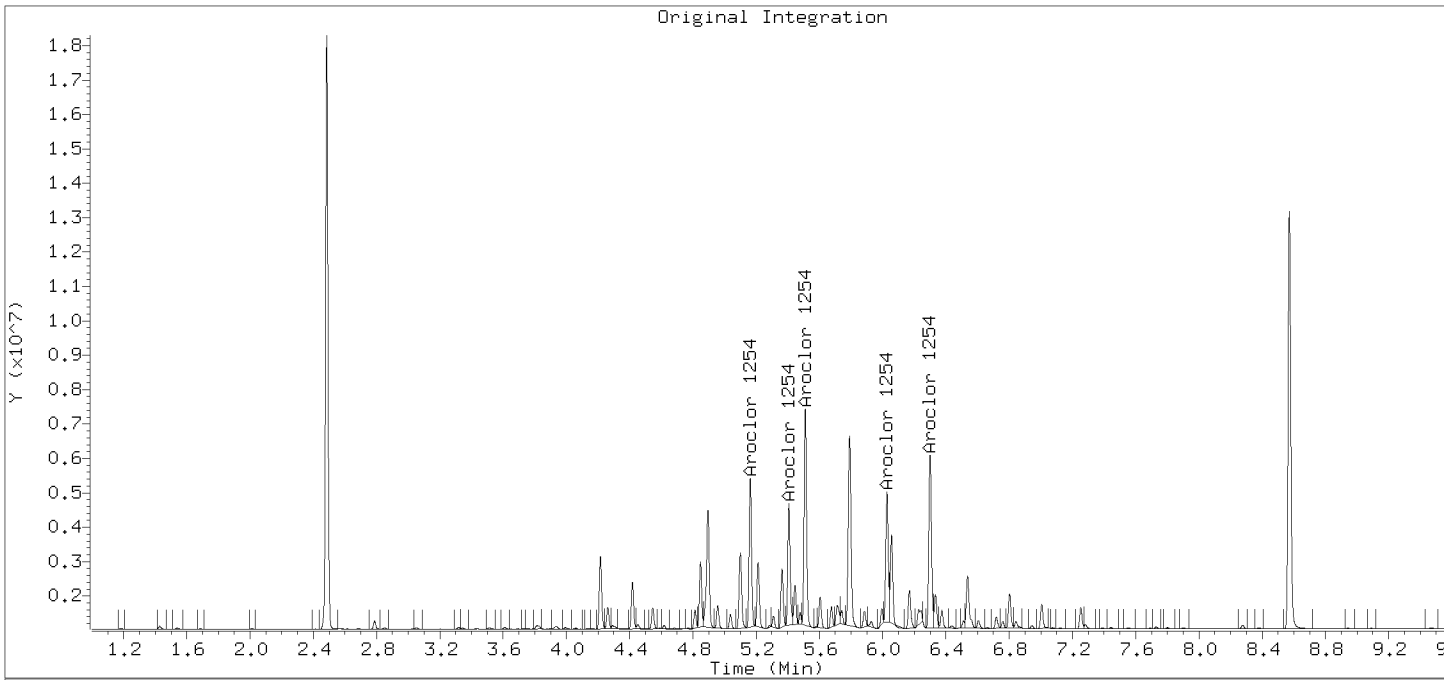
Column phase: ZB-1ms

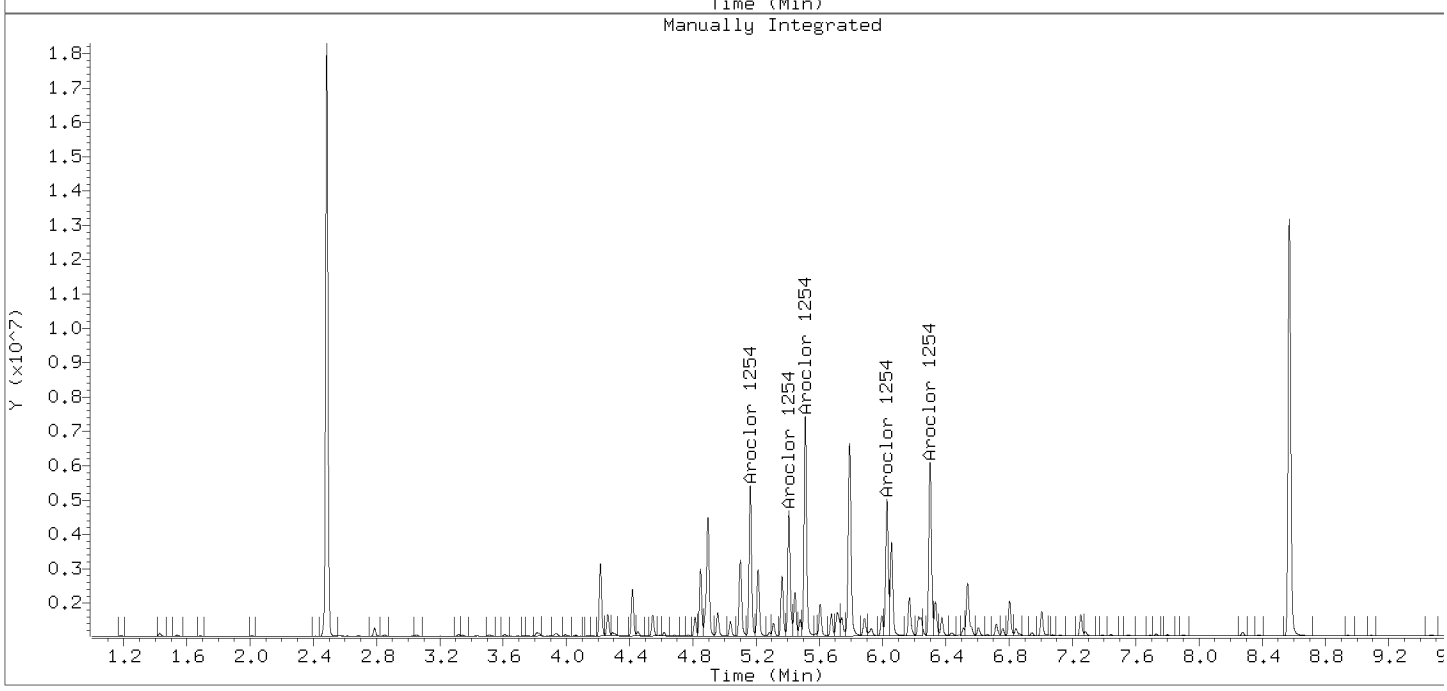
Instrument: 40GCSJ.i

Operator: BLM
Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

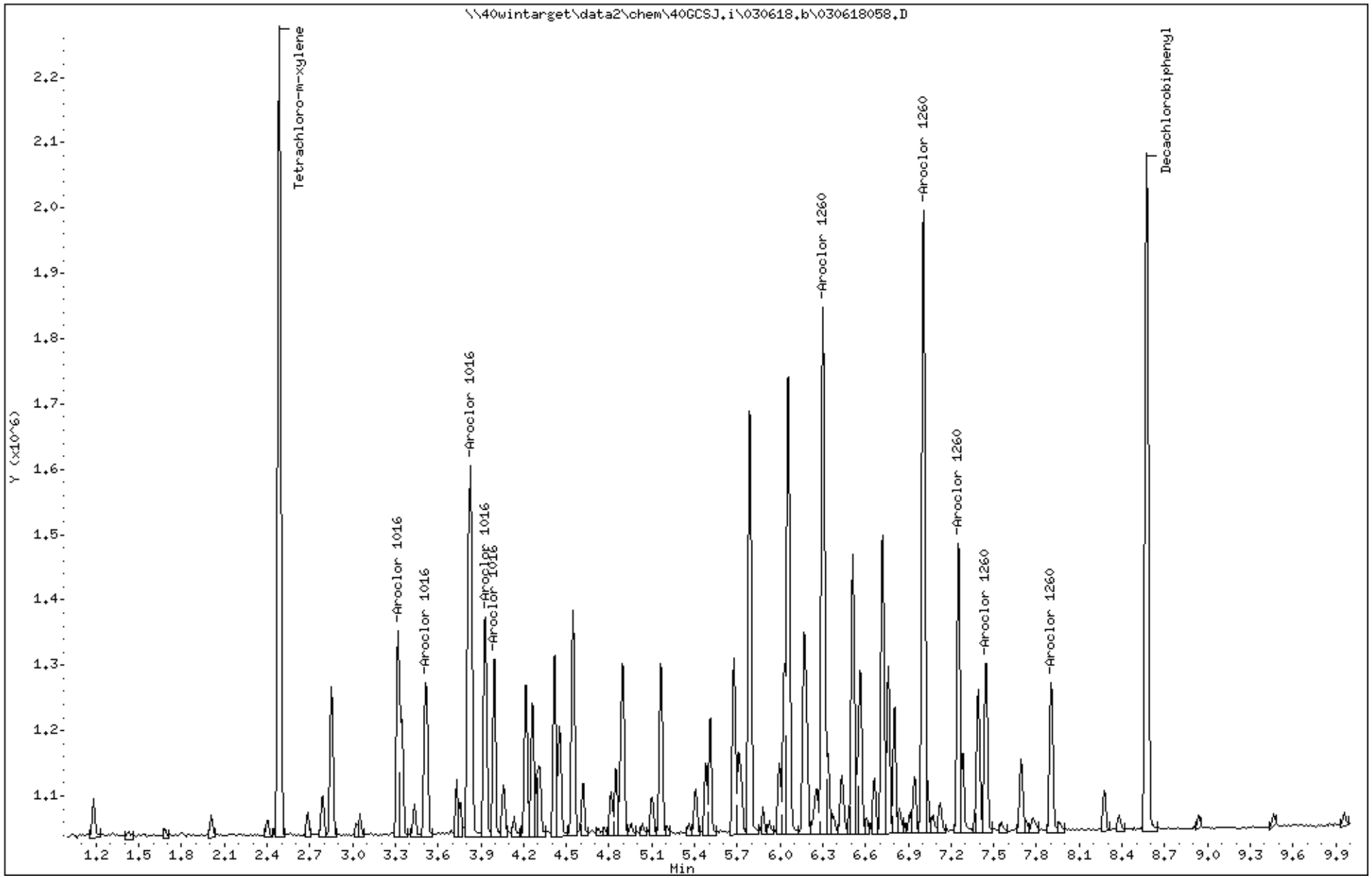
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

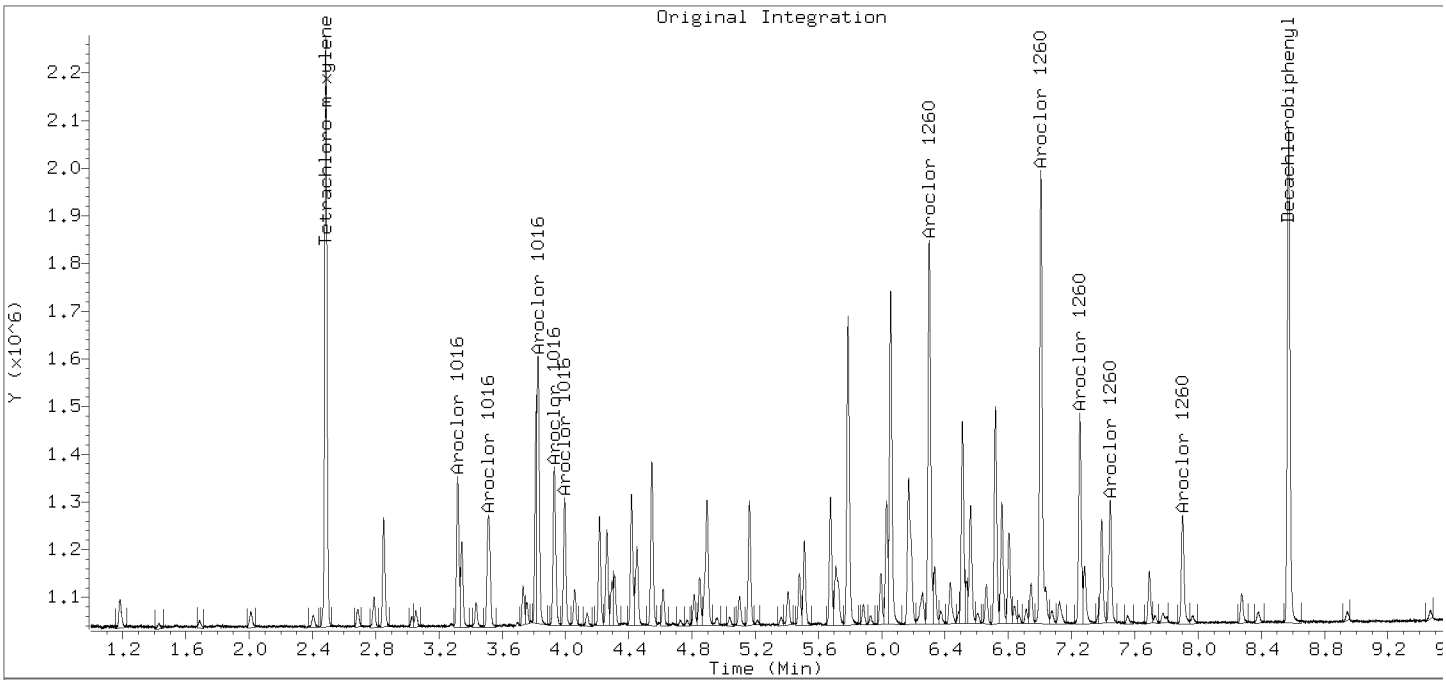
Operator: BLM

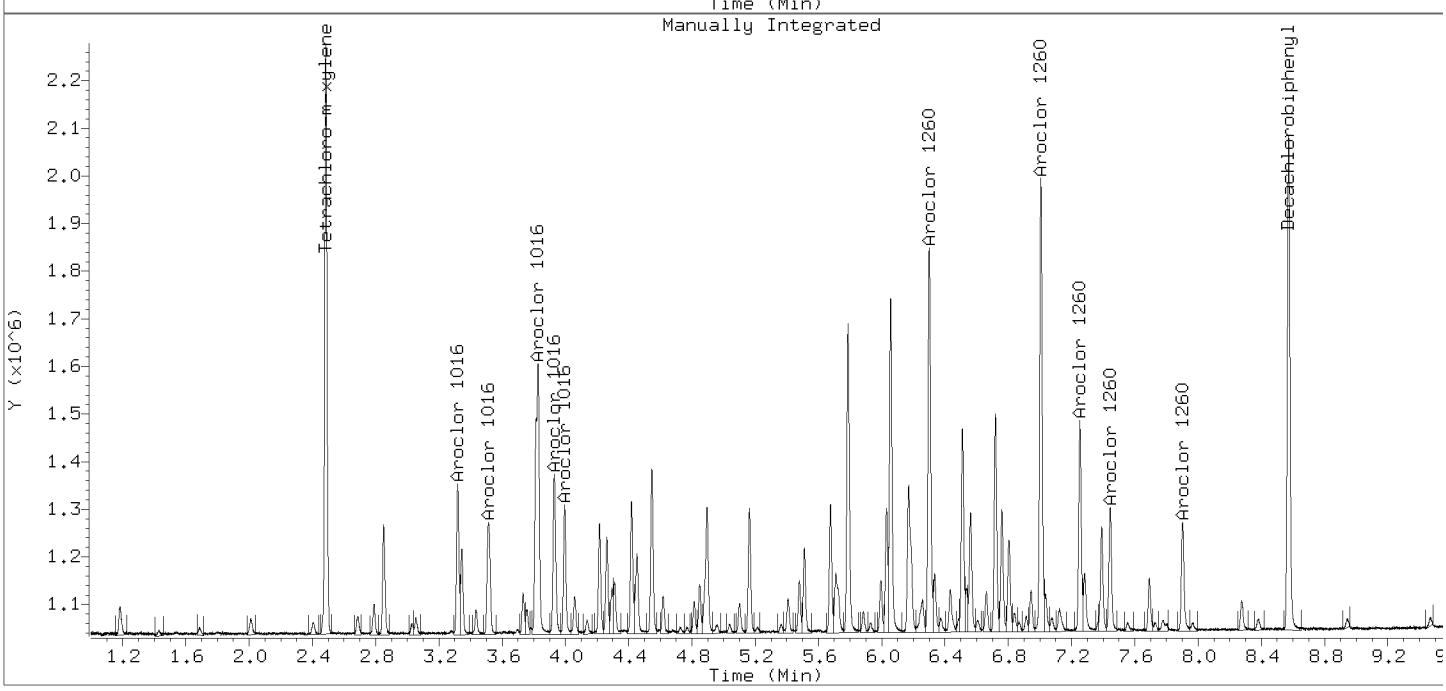
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

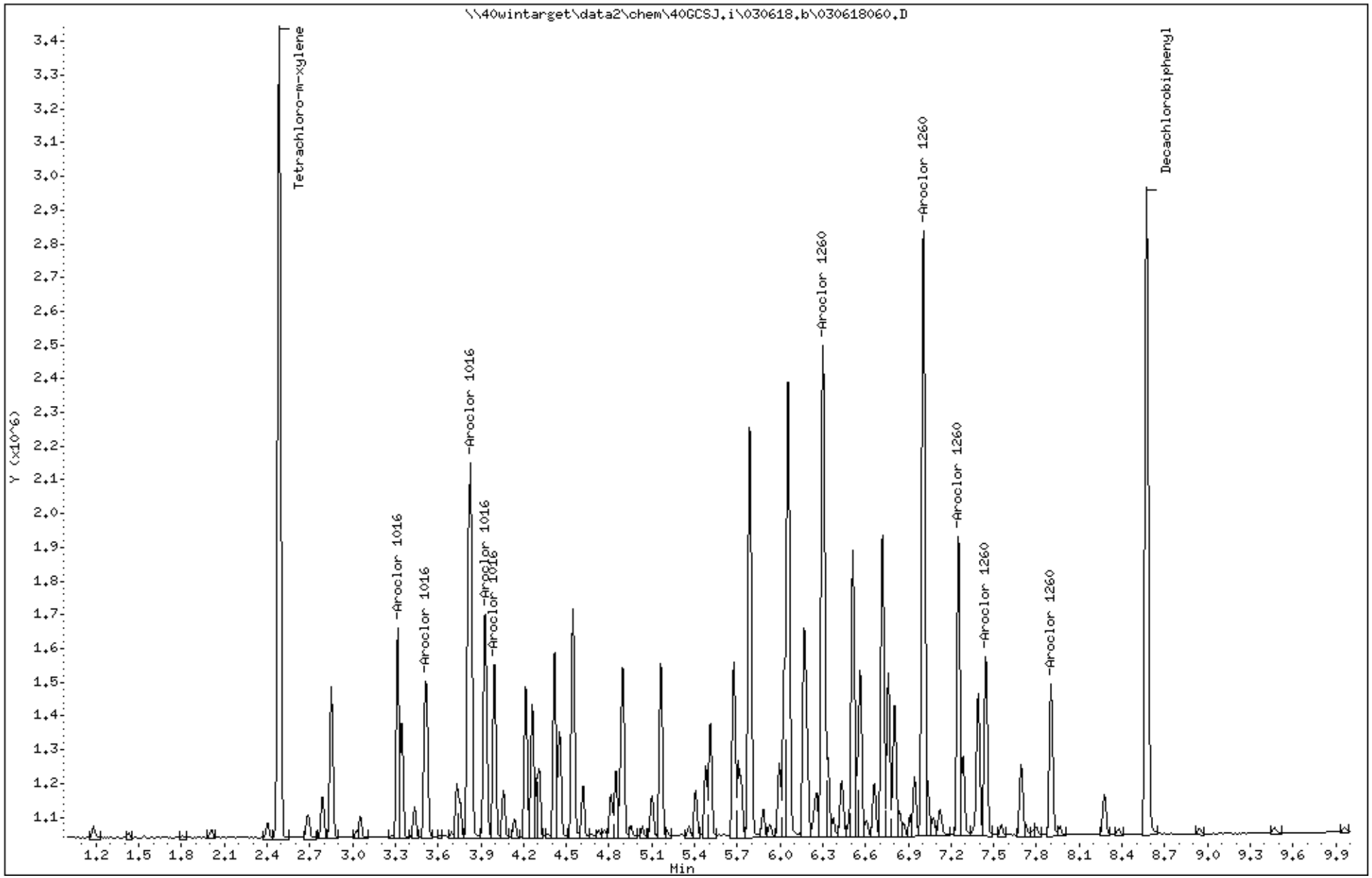
QC Flag Legend

Review Codes Legend

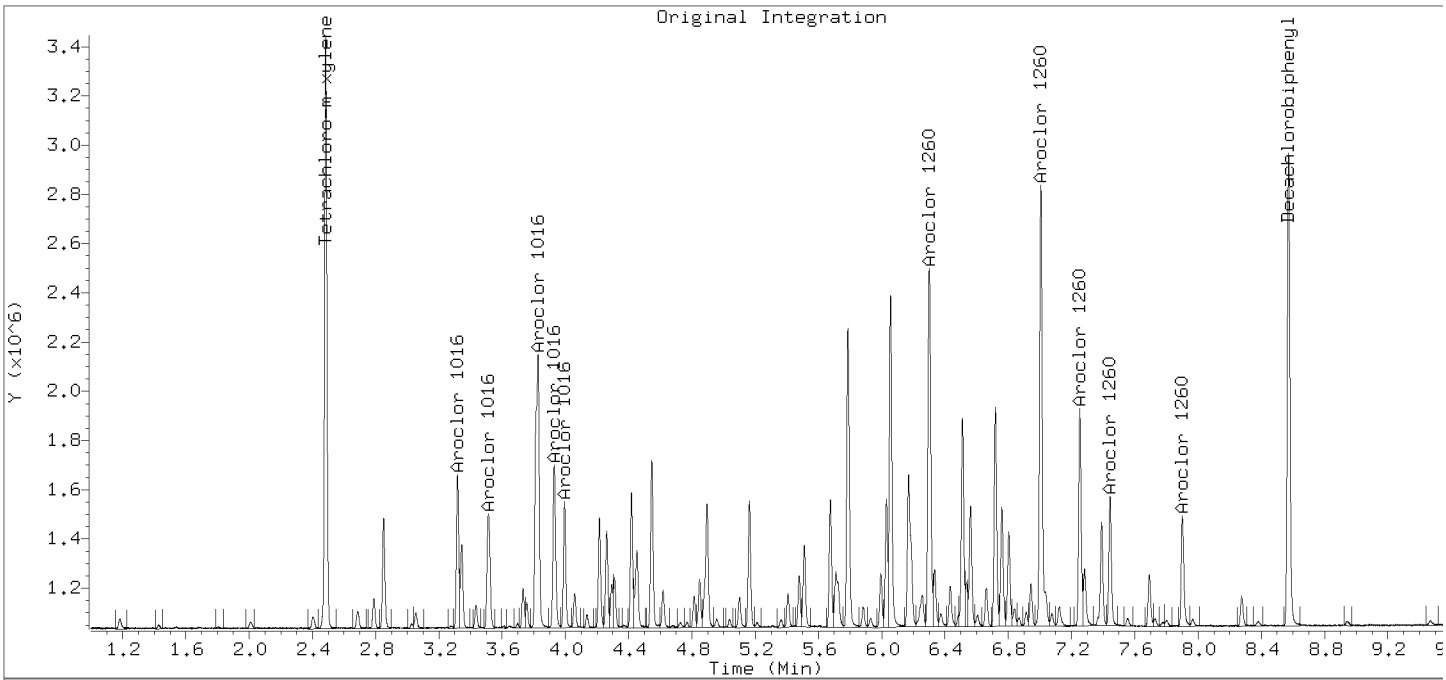
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

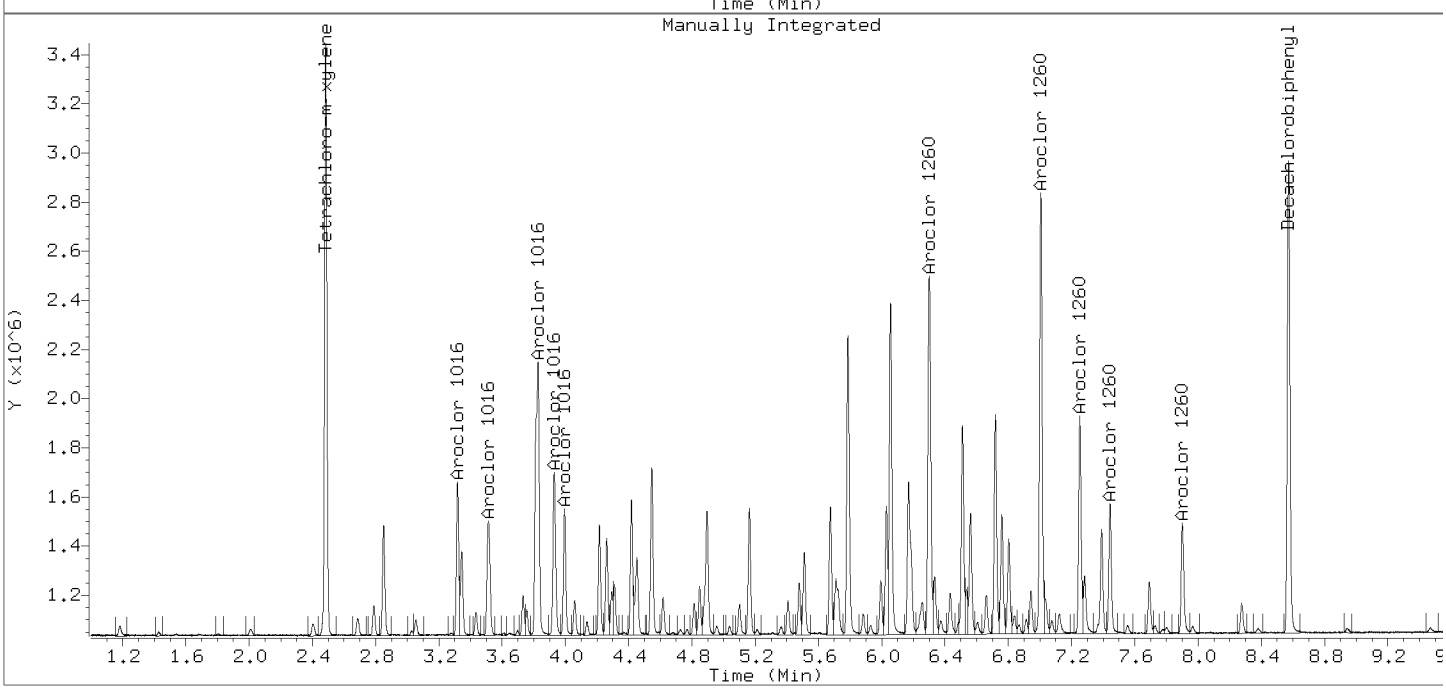
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Date : 06-MAR-2018 18:51
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

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	

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D Page 3
Report Date: 22-Mar-2018 13:35

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.

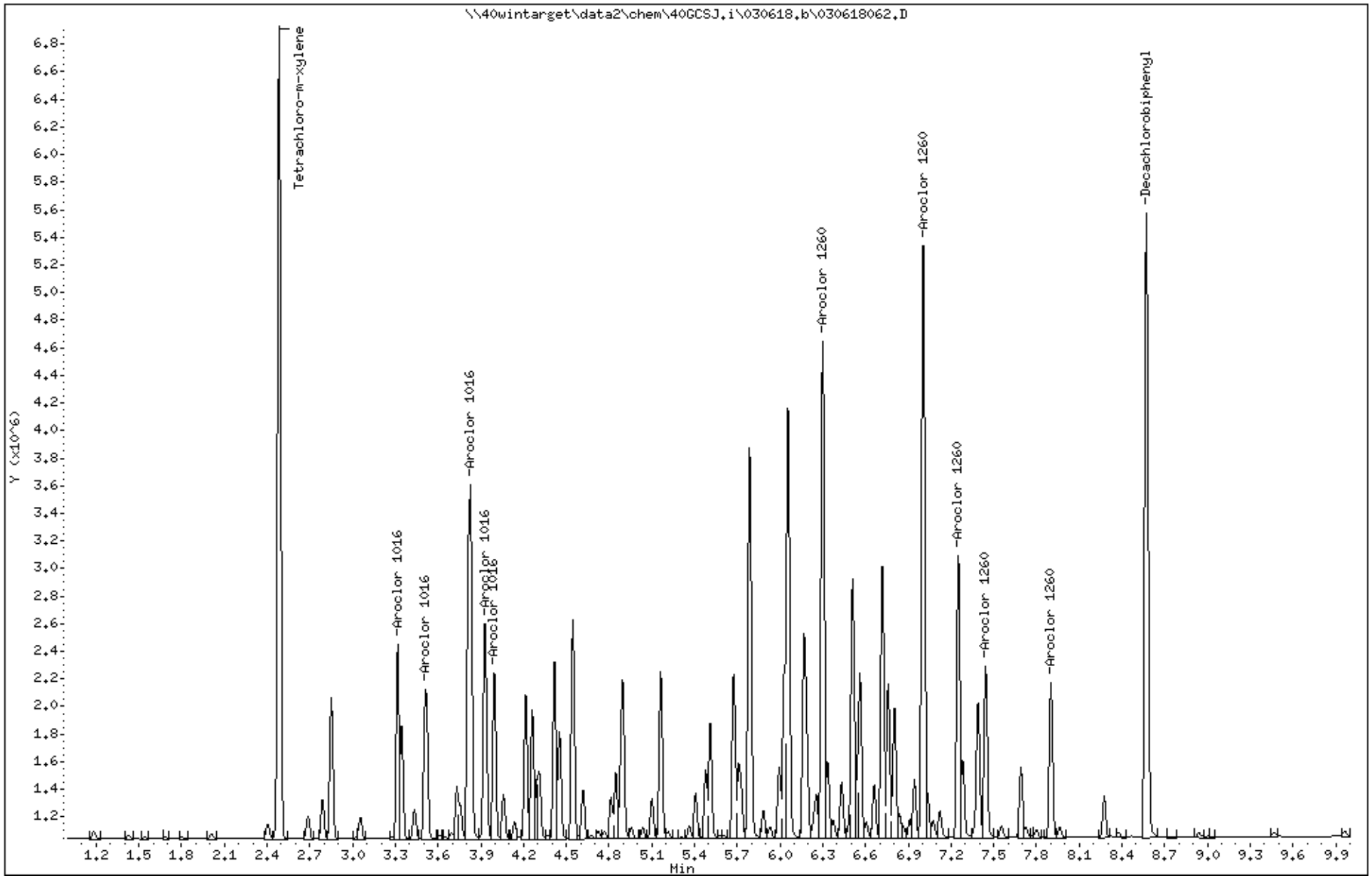
QC Flag Legend

Review Codes Legend

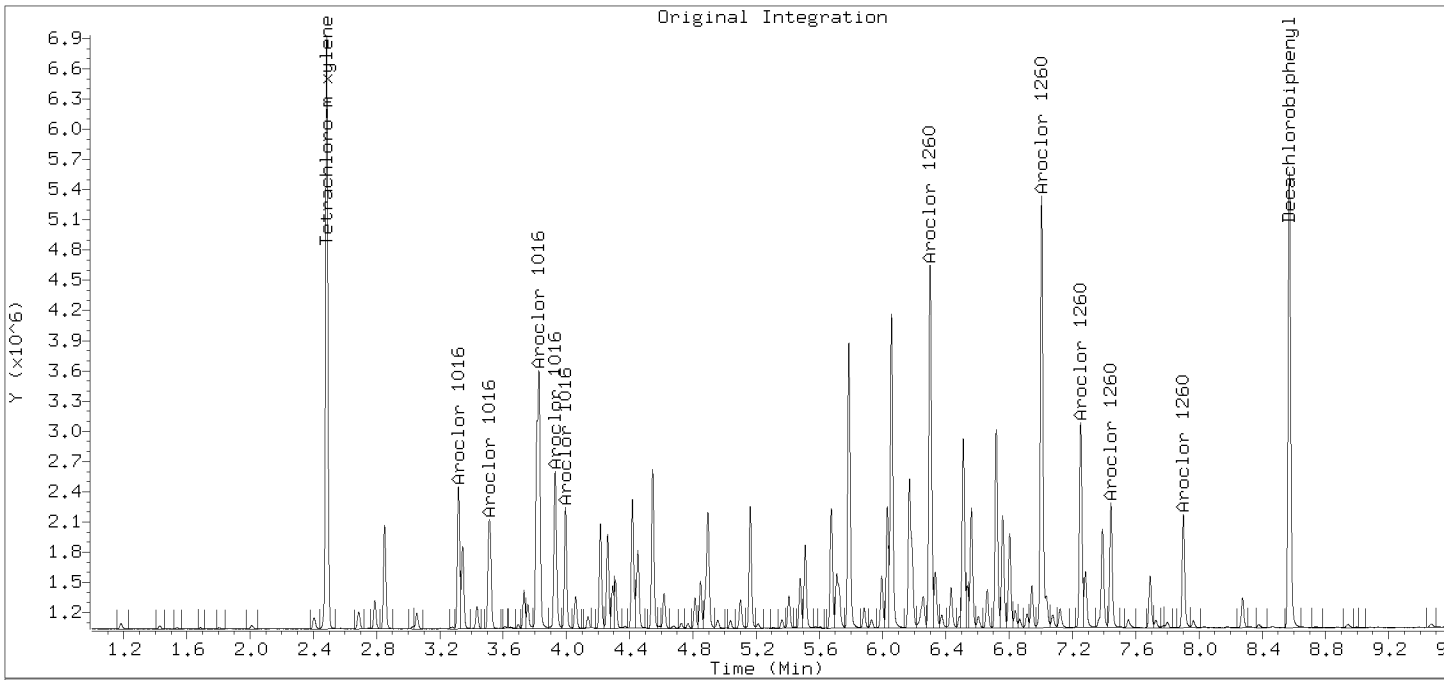
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

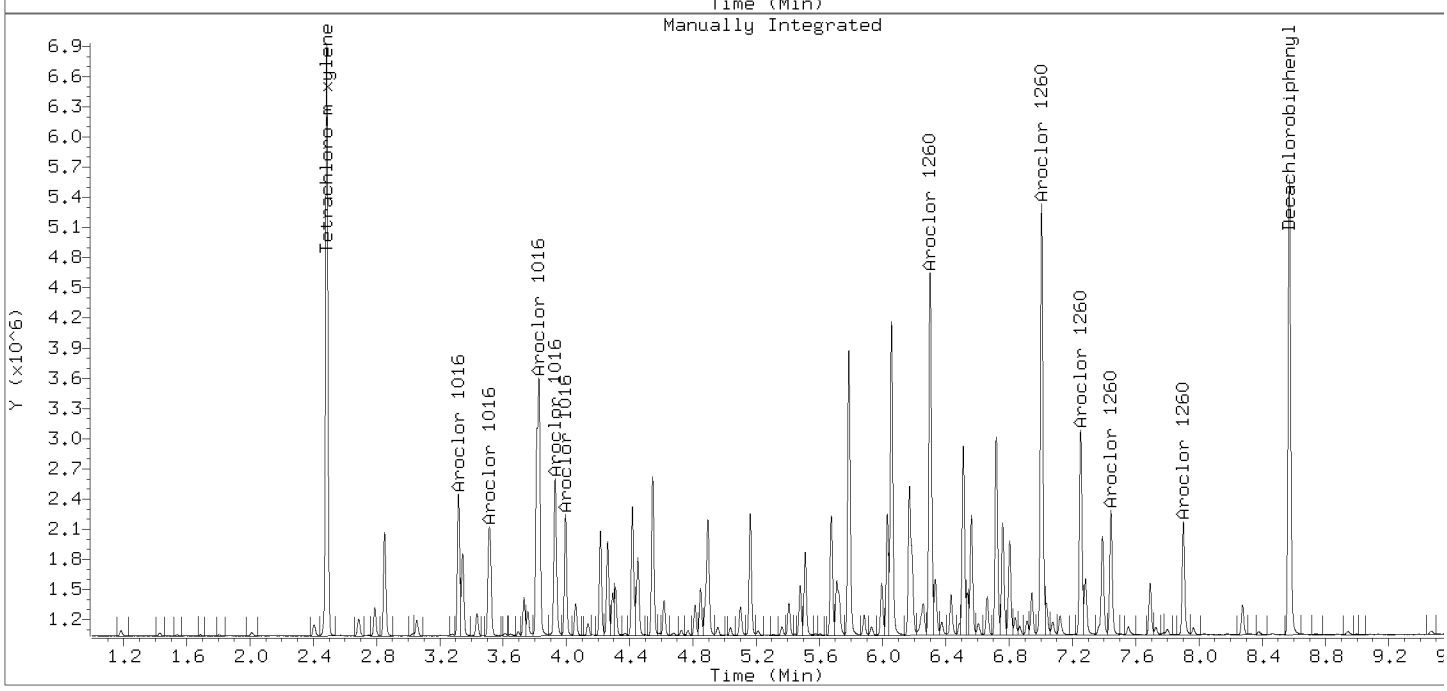
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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

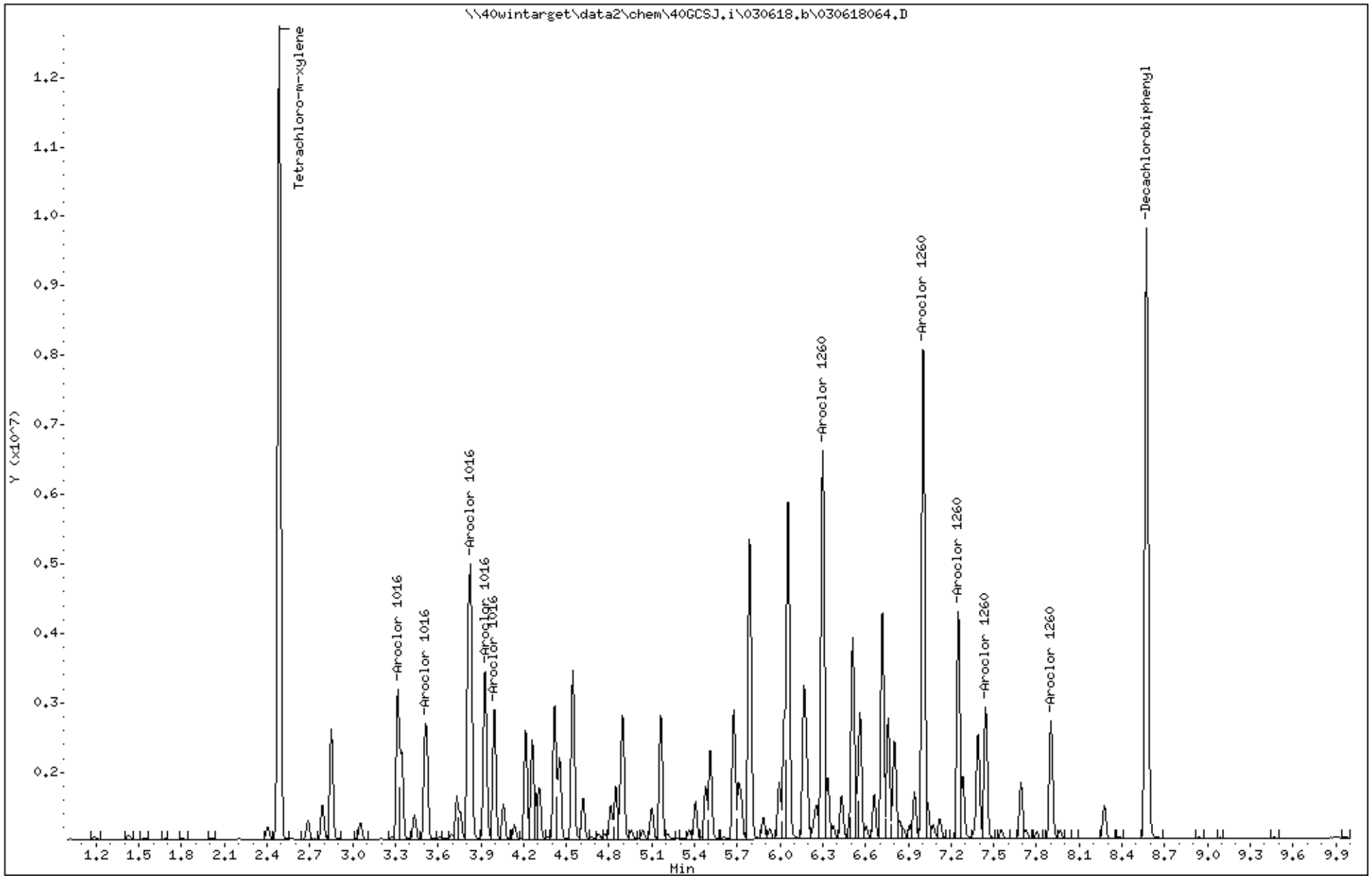
M - Compound response manually integrated.

Review Codes Legend

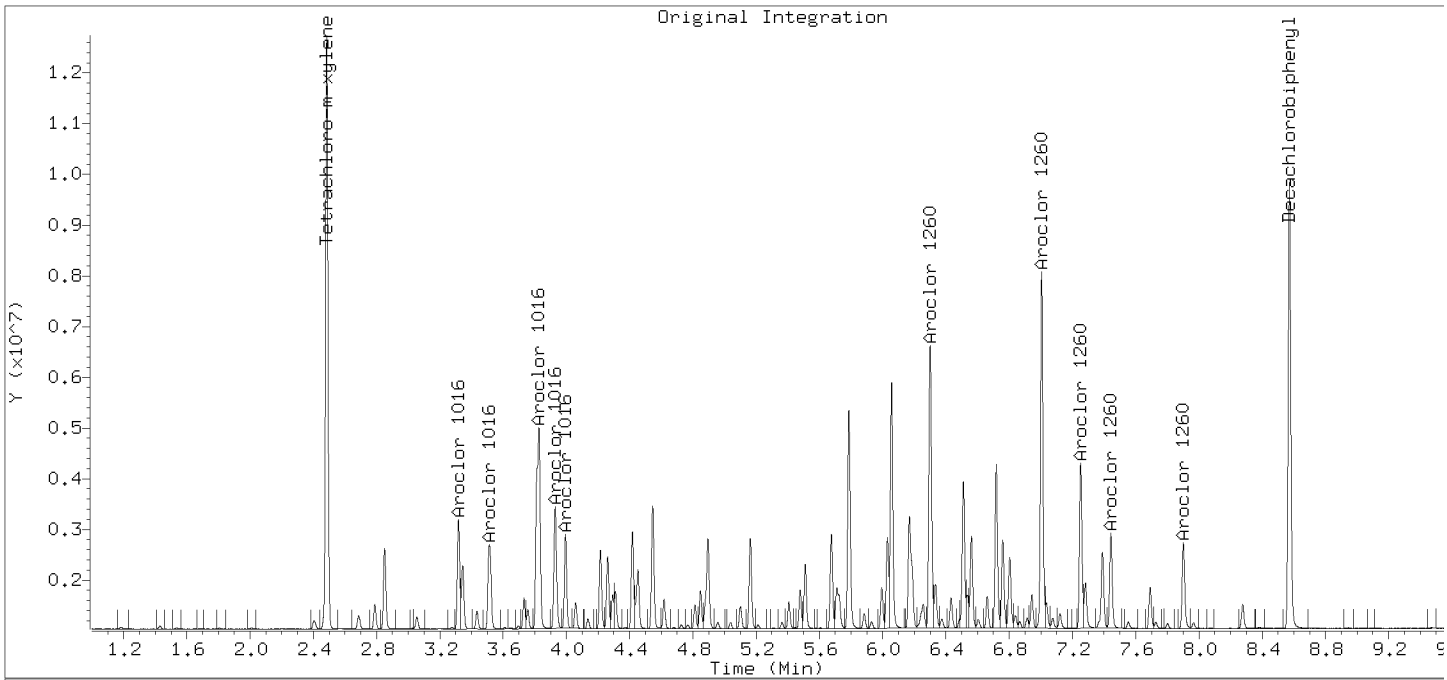
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

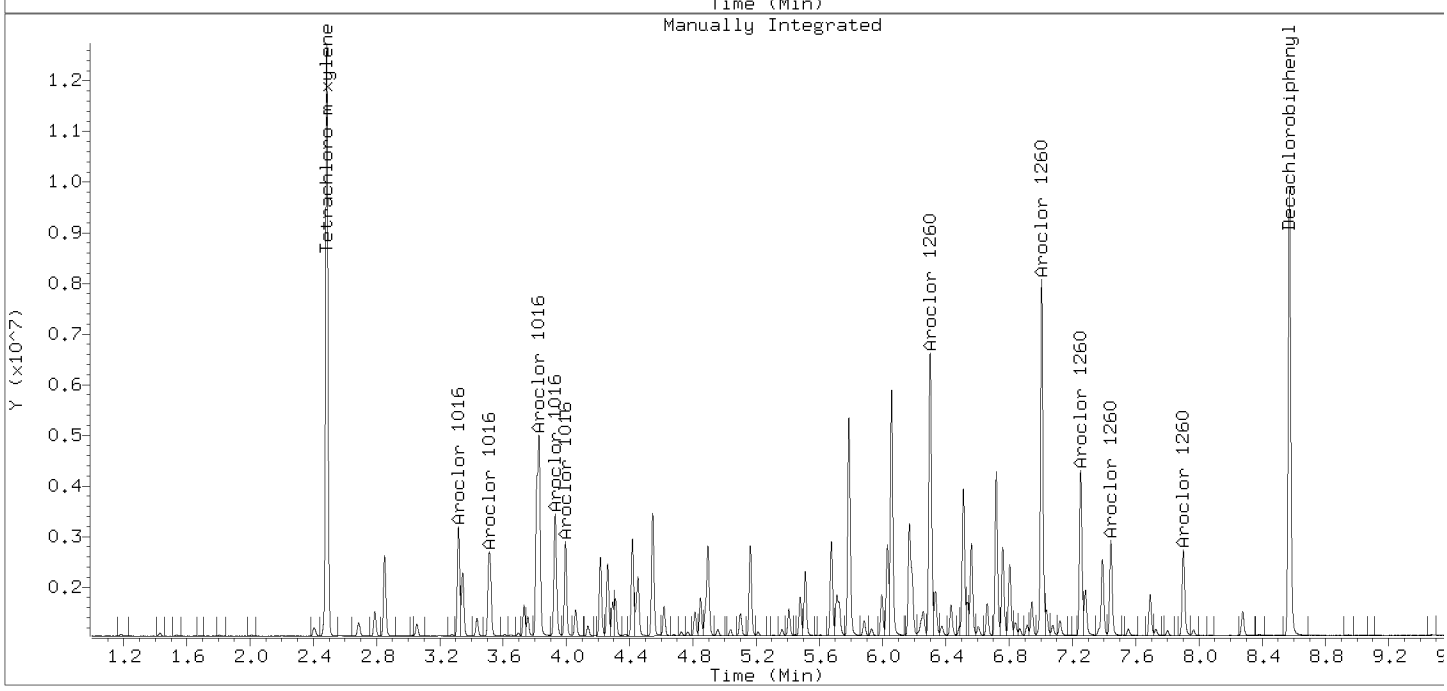
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Date : 06-MAR-2018 19:23
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

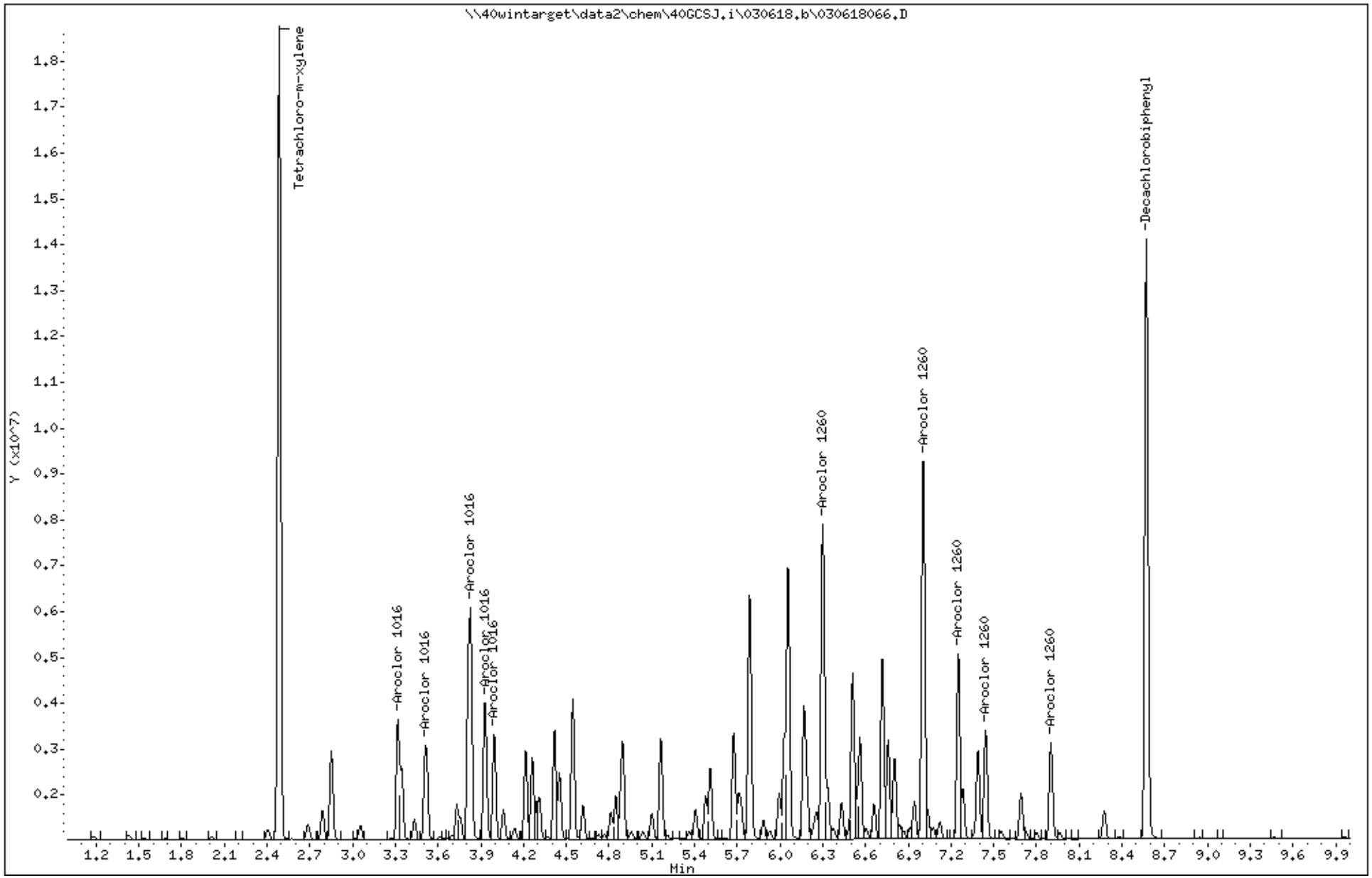
M - Compound response manually integrated.

Review Codes Legend

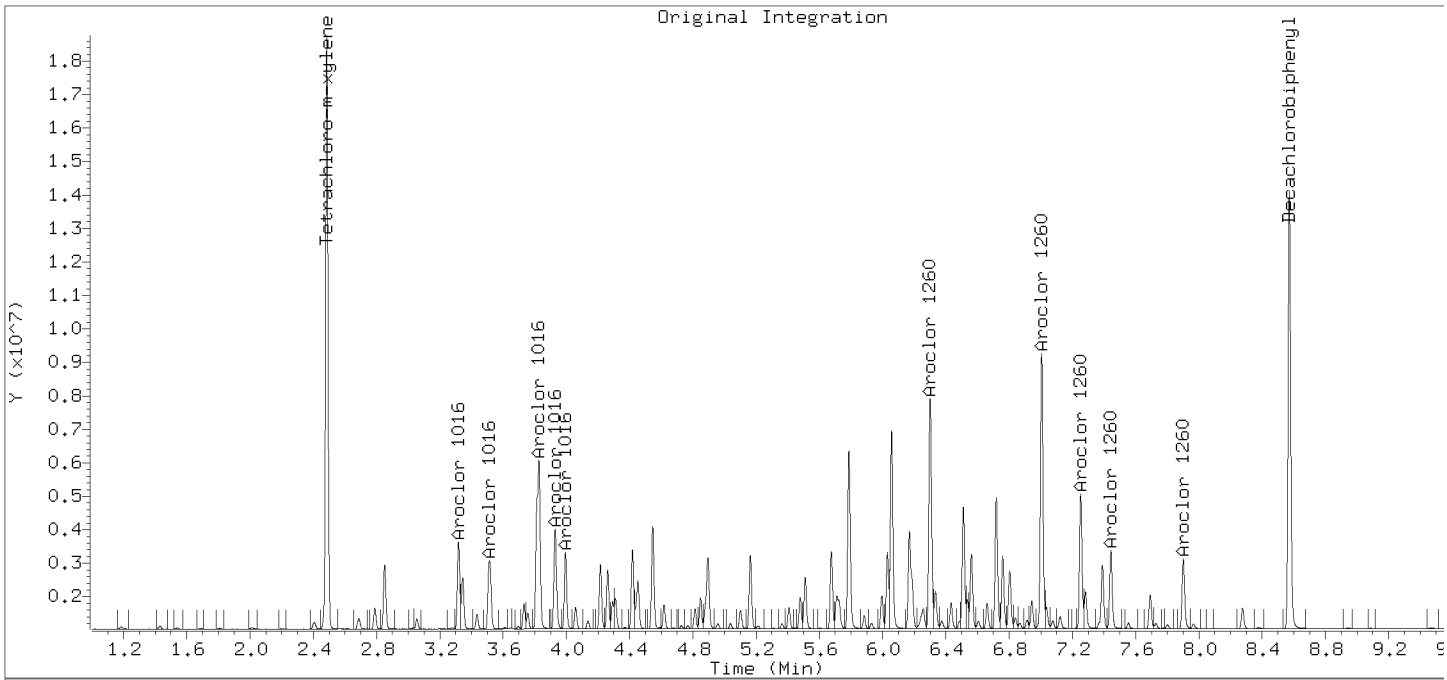
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

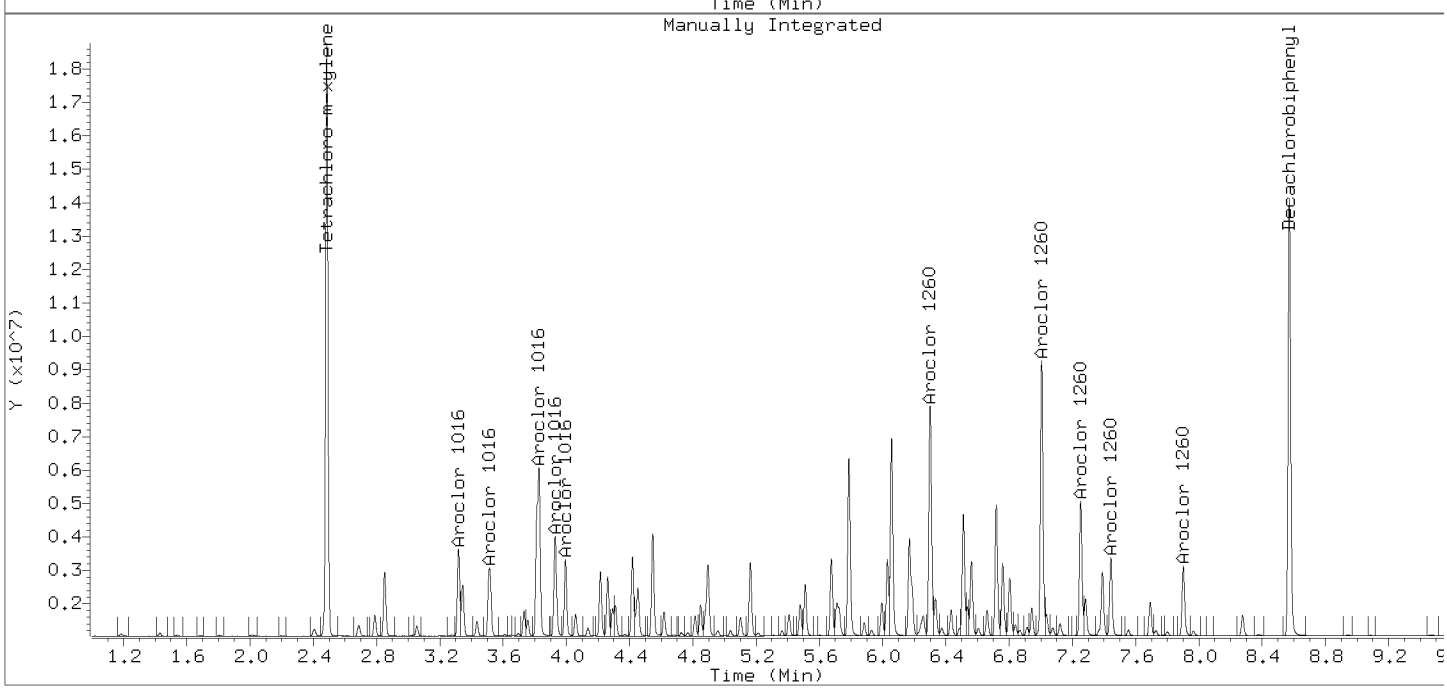
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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



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





Manually Integrated Compounds

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

PCB Low Level Calibration % Difference Check

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

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

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40157932

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.

05/16/2018 3:36

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.: 40157932

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.

05/16/2018 3:37

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.: 40157932

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.

05/16/2018 3:37

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.: 40157932

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.

05/16/2018 3:37

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.: 40157932

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.

05/16/2018 3:36

SAMPLE NO.

10901623CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/18/2018 Time: 13:13

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

Lab File ID: 041818.B\041818004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157932

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	2869804.00	14.7911
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1515160.00	13.0900
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4278272.00	14.0956
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1832262.00	14.0536
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1199342.00	9.8423
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	114990040.	4.9562
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	130121160.	5.5364

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

05/16/2018 3:36

SAMPLE NO.

10901622CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/18/2018 Time: 16:24

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

Lab File ID: 041818.B\041818016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157932

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	2641084.00	4.2589
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2622546.00	4.0679
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7489584.00	5.2431
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3222670.00	5.9554
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2158446.00	5.4059
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111679180.	1.9343
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122186320.	-0.8993

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

05/16/2018 3:37

SAMPLE NO.

10904432CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/18/2018 Time: 19:34

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

Lab File ID: 041818.B\041818028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157932

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2469792.00	5.4127
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4326224.00	4.2387
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2199974.00	8.3688
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5372774.00	6.6567
Aroclor 1248	5	Averaged	5.035	5.004	5.072	3588546.15	3895970.00	8.5668
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	112668640.	2.8374
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124224440.	0.7537

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

05/16/2018 3:37

SAMPLE NO.

10904433CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/18/2018 Time: 20:53

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

Lab File ID: 041818.B\041818033.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157932

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	5543338.00	5.8849
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4625986.00	7.5547
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	8282644.00	6.6518
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5432650.00	11.5606
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	7146414.00	9.8248
Decachlorobiphenyl (S)		Averaged	8.568	8.537	8.605	109559990.	117020480.	6.8095
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	127117720.	3.1004

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

05/16/2018 3:37

SAMPLE NO.

10904434CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/19/2018 Time: 14:08

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

Lab File ID: 041918.B\041918004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157932

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.318	3.284	3.352	3080830.60	3391166.00	10.0731
Aroclor 1016	2	Averaged	3.514	3.478	3.546	3099002.40	3379834.00	9.0620
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9709898.00	9.5704
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	4149512.00	9.7690
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2780090.00	6.7890
Aroclor 1260	1	Averaged	6.298	6.266	6.334	8862352.50	9758654.00	10.1136
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	11145188.0	11.2919
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	5317072.00	11.2404
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3225076.00	10.6331
Aroclor 1260	5	Averaged	7.899	7.867	7.935	2638735.95	2926334.00	10.8991
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	121928380.	11.2891
Tetrachloro-m-xylene		Averaged	2.486	2.45	2.518	123295106.	134606880.	9.1746

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

05/16/2018 3:37

SAMPLE NO.

10904435CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/19/2018 Time: 15:11

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

Lab File ID: 041918.B\041918008.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157932

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	1036742.00	-0.4336
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	539564.000	-1.5112
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1401878.00	1.3403
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1092412.00	-1.2080
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3361184.00	3.2496
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	109855860.	0.2701
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120655820.	-2.1406

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

05/16/2018 3:37

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		

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D Page 2
Report Date: 22-Mar-2018 13:35

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

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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

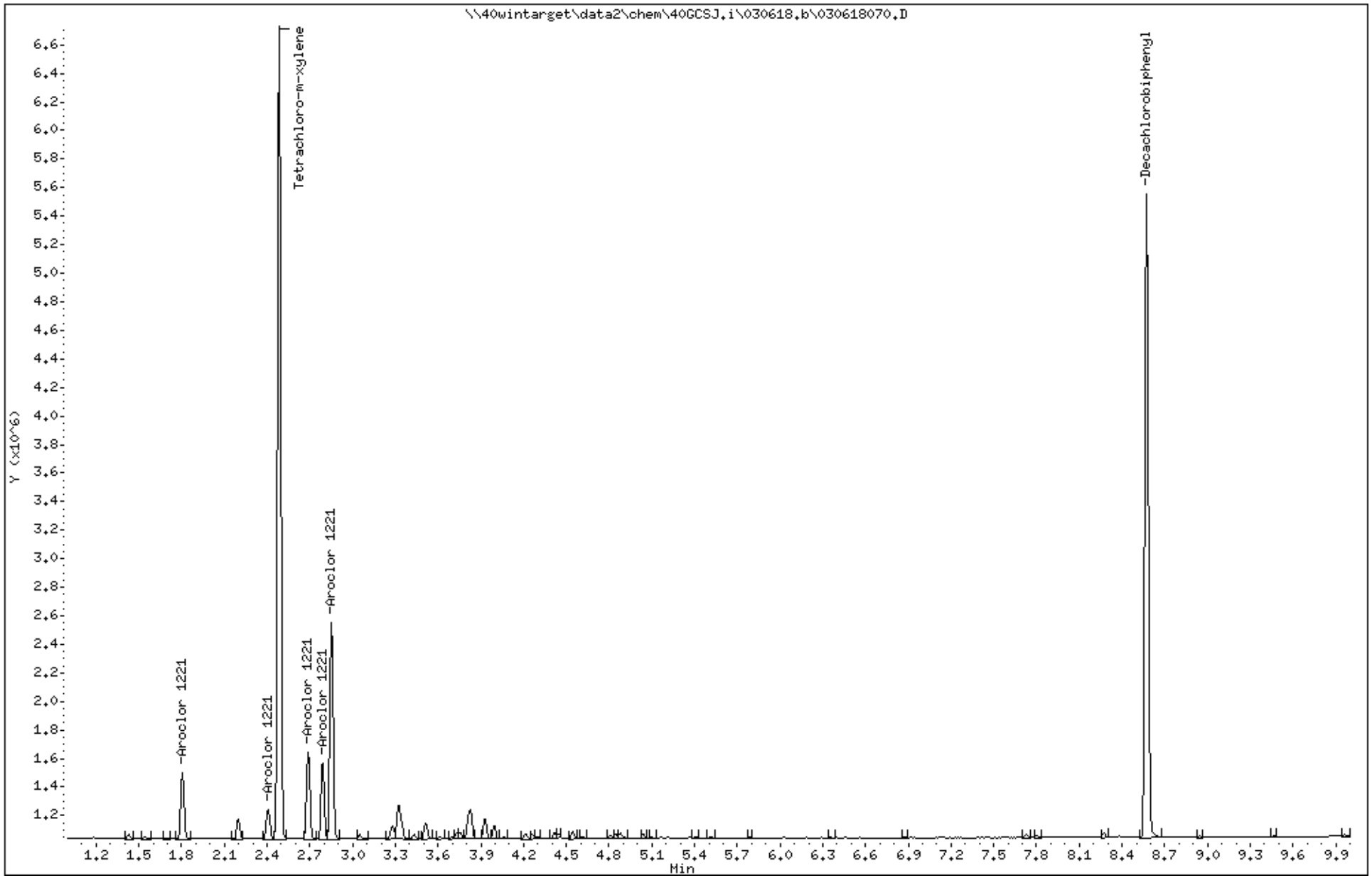
M - Compound response manually integrated.

Review Codes Legend

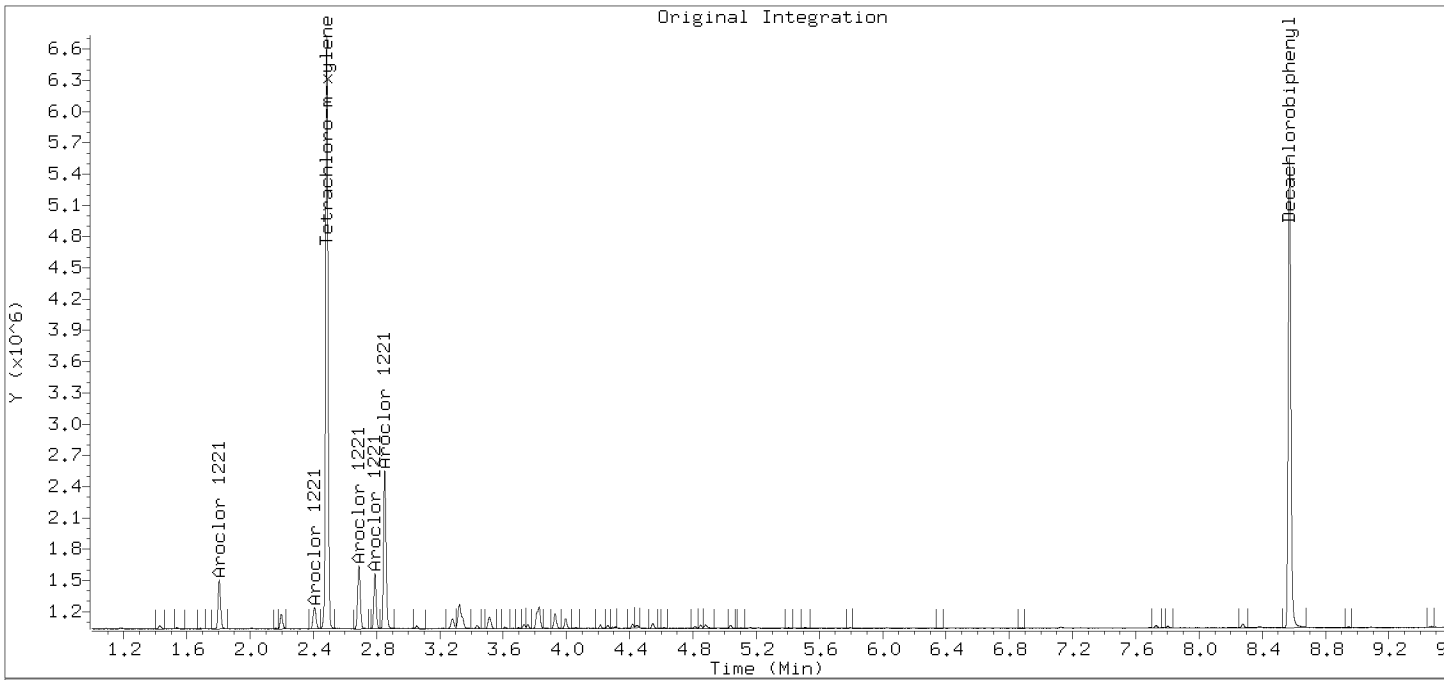
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

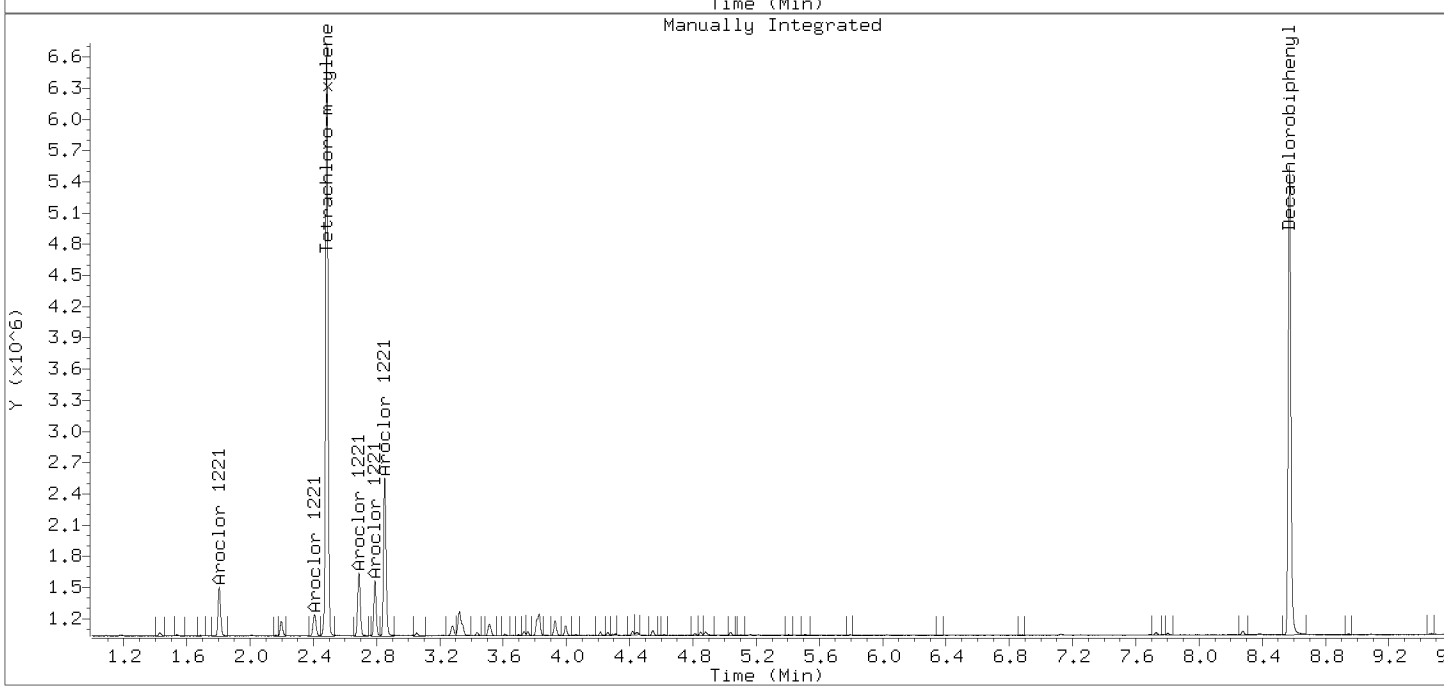
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	14288	12968	0.908	0.03		
1.428	37134	32784	0.883	0.09		
1.539	20685	13744	0.664	0.05		
1.806	19059	17804	0.934	0.05		
2.404	134346	103552	0.771	0.35		
2.485	5873636	5676099	0.966	16.03	$ 2 Tetrachloro-m-xylene	
2.686	193190	158466	0.820	0.51		
2.788	283870	272236	0.959	0.75		
2.850	999209	952371	0.953	2.66		
3.054	145787	130280	0.894	0.38		
3.279	24447	19522	0.799	0.06		
3.317	1287474	1200238	0.932	3.43	3 Aroclor 1242	BA
3.344	730459	693075	0.949	1.94		
3.435	207883	189325	0.911	0.55		
3.513	1293863	944289	0.730	3.44	3 Aroclor 1242	BA
3.612	22860	18377	0.804	0.06		
3.647	23439	16349	0.698	0.06		
3.696	36476	35506	0.973	0.09		
3.731	322838	319621	0.990	0.86		
3.756	213073	205263	0.963	0.56		
3.826	3581222	2097110	0.586	9.54	3 Aroclor 1242	BA
3.928	1554671	1293077	0.832	4.14	3 Aroclor 1242	BA
3.994	1041253	986439	0.947	2.77	3 Aroclor 1242	BA
4.058	279247	251769	0.902	0.74		
4.136	113510	101678	0.896	0.30		
4.215	824770	788034	0.955	2.19		
4.261	781405	765245	0.979	2.08		
4.292	312524	328346	1.051	0.83		
4.311	404517	367665	0.909	1.07		
4.372	27372	22538	0.823	0.07		
4.417	1118646	1040424	0.930	2.98		
4.452	854457	630460	0.738	2.27		
4.545	1421692	1283823	0.903	3.78		
4.618	334338	302865	0.906	0.89		
4.679	28007	18667	0.667	0.07		
4.728	68438	58015	0.848	0.18		
4.768	73081	69415	0.950	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	640662	618887	0.966	1.70	
4.848	1131783	1062264	0.939	3.01	
4.878	1453285	1083159	0.745	3.87	
4.957	156083	126825	0.813	0.41	
5.037	1224571	1114748	0.910	3.26	
5.099	245239	185939	0.758	0.65	
5.162	276625	246249	0.890	0.73	
5.212	201147	175293	0.871	0.53	
5.285	18730	16061	0.858	0.04	
5.312	50903	39235	0.771	0.13	
5.362	178111	159411	0.895	0.47	
5.407	296369	257265	0.868	0.78	
5.446	185486	163132	0.879	0.49	
5.509	494170	376849	0.763	1.31	
5.604	157705	129475	0.821	0.42	
5.670	15998	12262	0.766	0.04	
5.716	27499	21293	0.774	0.07	
5.741	38080	32982	0.866	0.10	
5.792	324066	249256	0.769	0.86	
5.891	46598	28590	0.614	0.12	
6.025	300272	225833	0.752	0.80	
6.173	22376	16996	0.760	0.05	
6.299	61219	54211	0.886	0.16	
6.335	9981	10468	1.049	0.02	
6.367	9764	8232	0.843	0.02	
6.801	13109	12142	0.926	0.03	
7.008	20895	16561	0.793	0.05	
7.124	16181	11660	0.721	0.04	
7.253	9479	8109	0.855	0.02	
7.392	10765	9021	0.838	0.02	
7.727	30633	26862	0.877	0.08	
7.802	22807	20254	0.888	0.06	
8.275	44979	37205	0.827	0.11	
8.381	12768	10411	0.815	0.03	
8.572	5034014	4309550	0.856	13.41	$ 12 Decachlorobiphenyl
9.466	9953	6796	0.683	0.02	
9.962	21579	14184	0.657	0.05	
	37517051	32315109		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5873636	0.05000	0.048			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1287474	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1293862	0.50000	0.51	0.00- 20.00	100.50	BA
3.825	3.827	-0.002	3581221	0.50000	0.50	0.00- 20.00	278.16	BA
3.928	3.929	-0.001	1554671	0.50000	0.51	0.00- 20.00	120.75	BA
3.993	3.995	-0.002	1041252	0.50000	0.51	0.00- 20.00	80.88	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5034013	0.05000	0.046			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

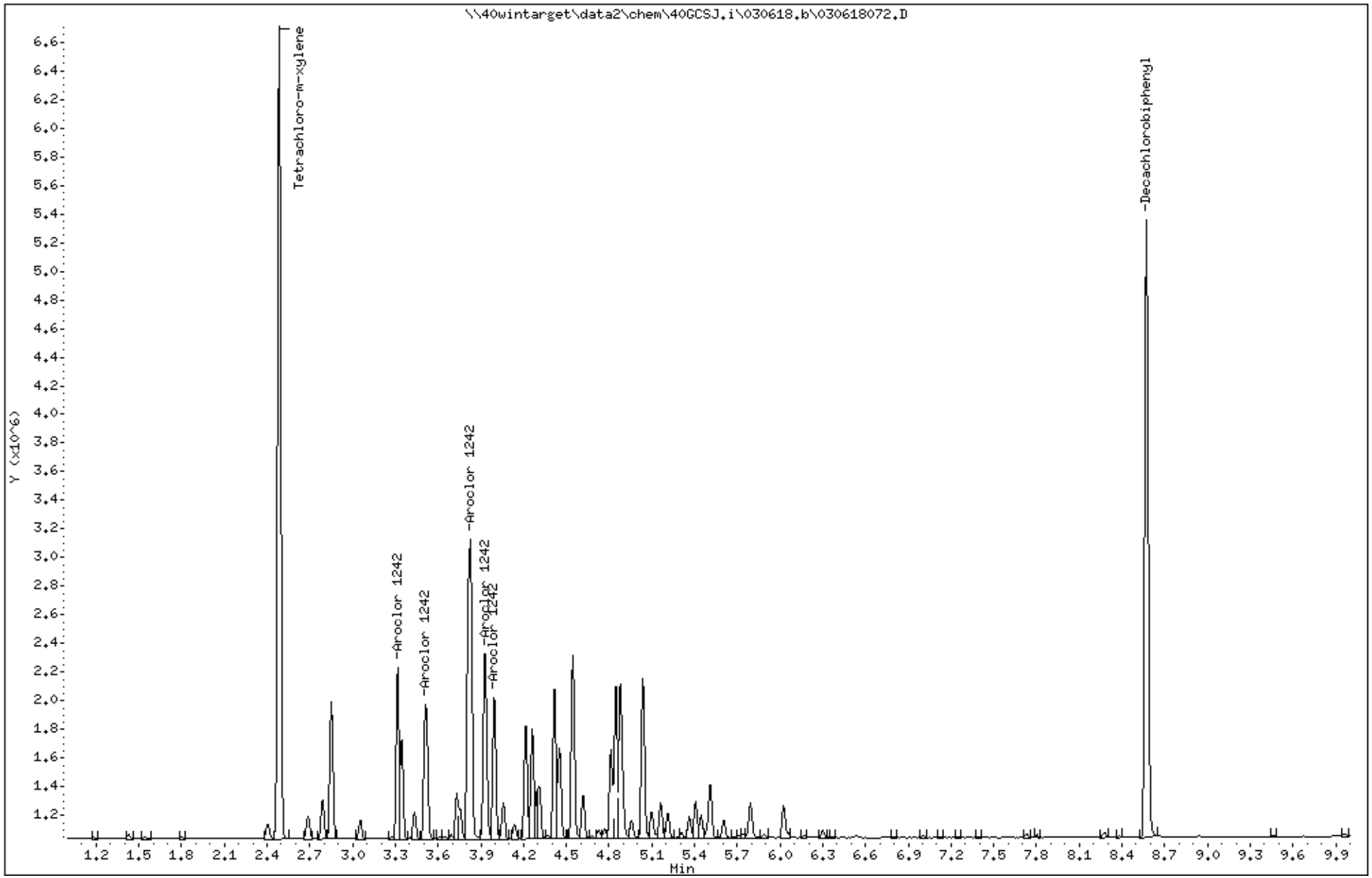
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i

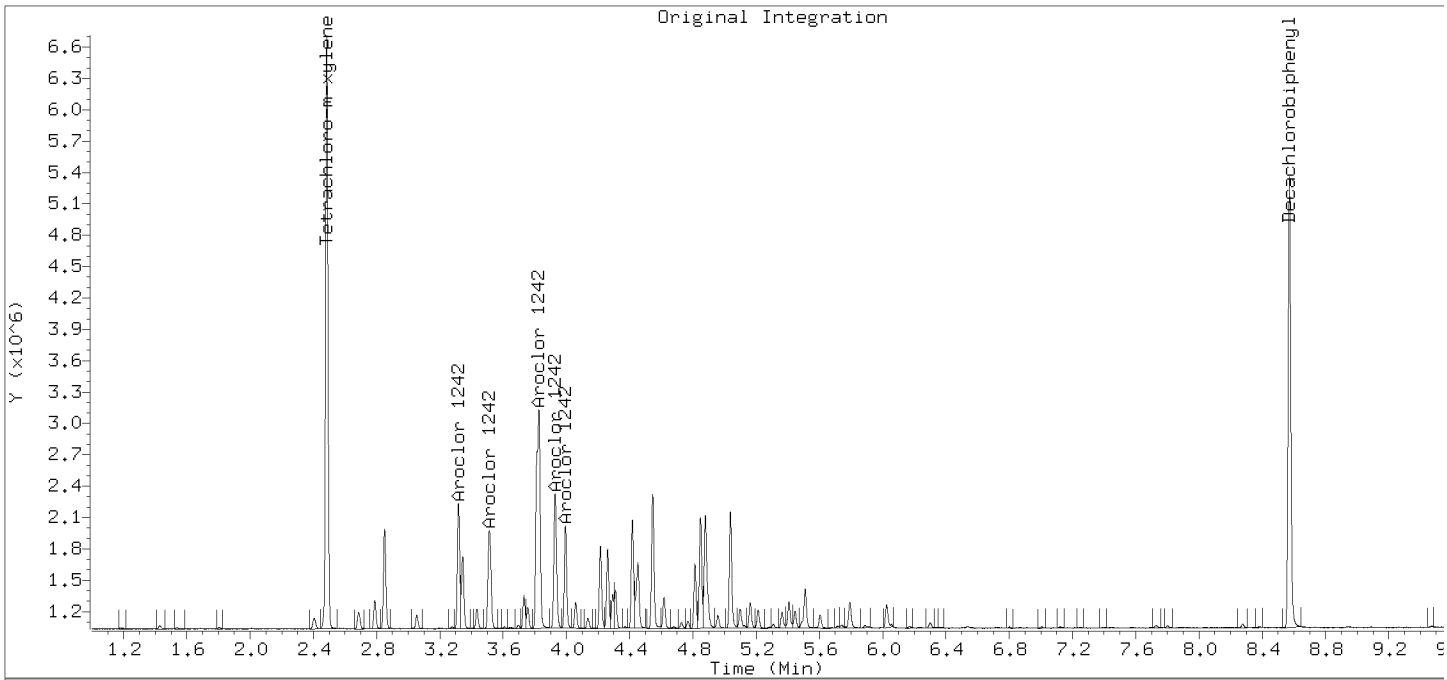
Operator: BLM

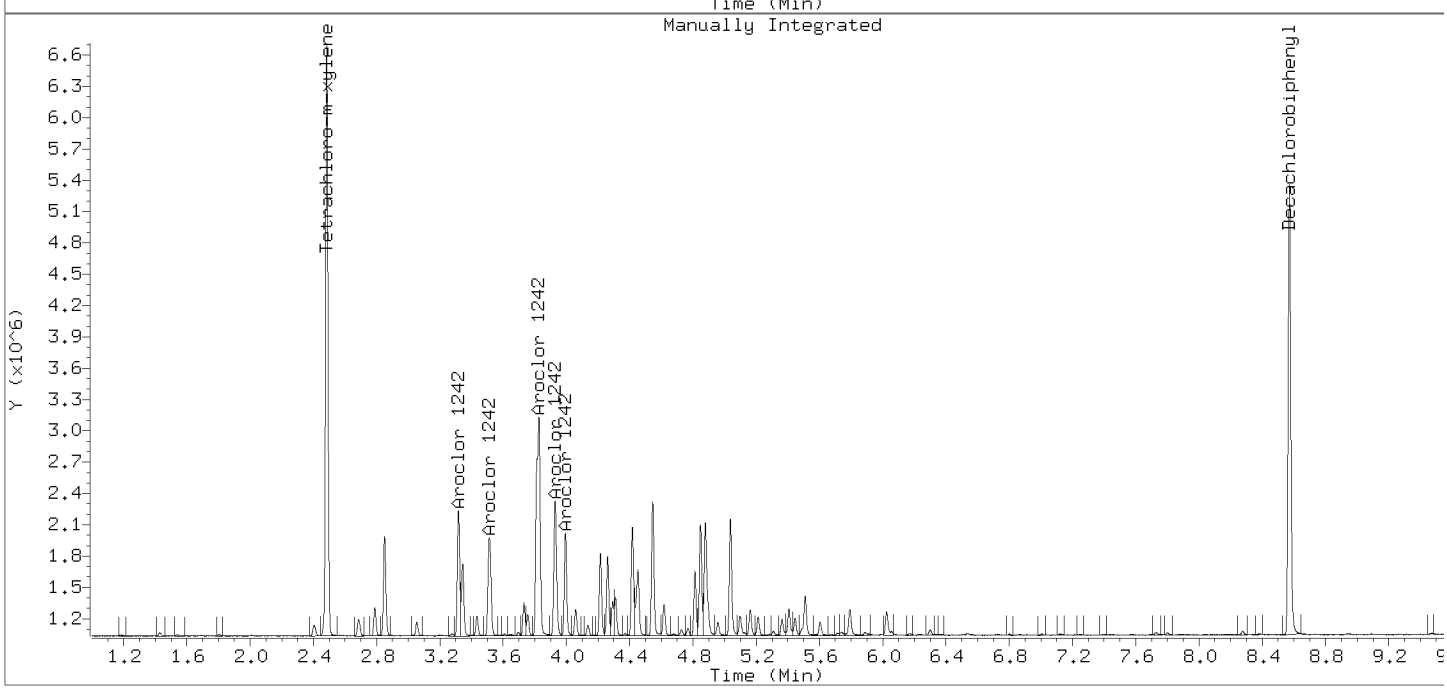
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

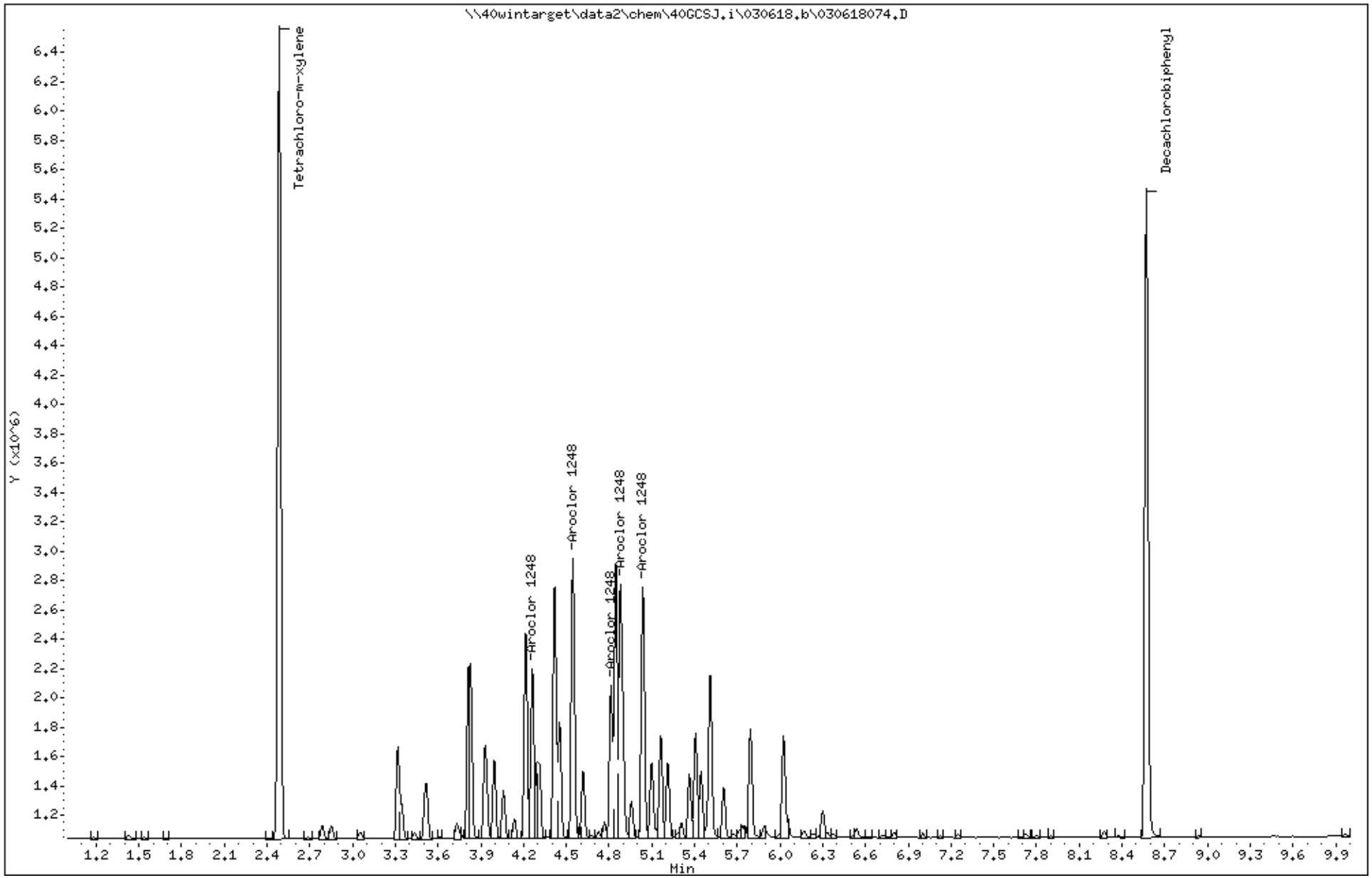
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

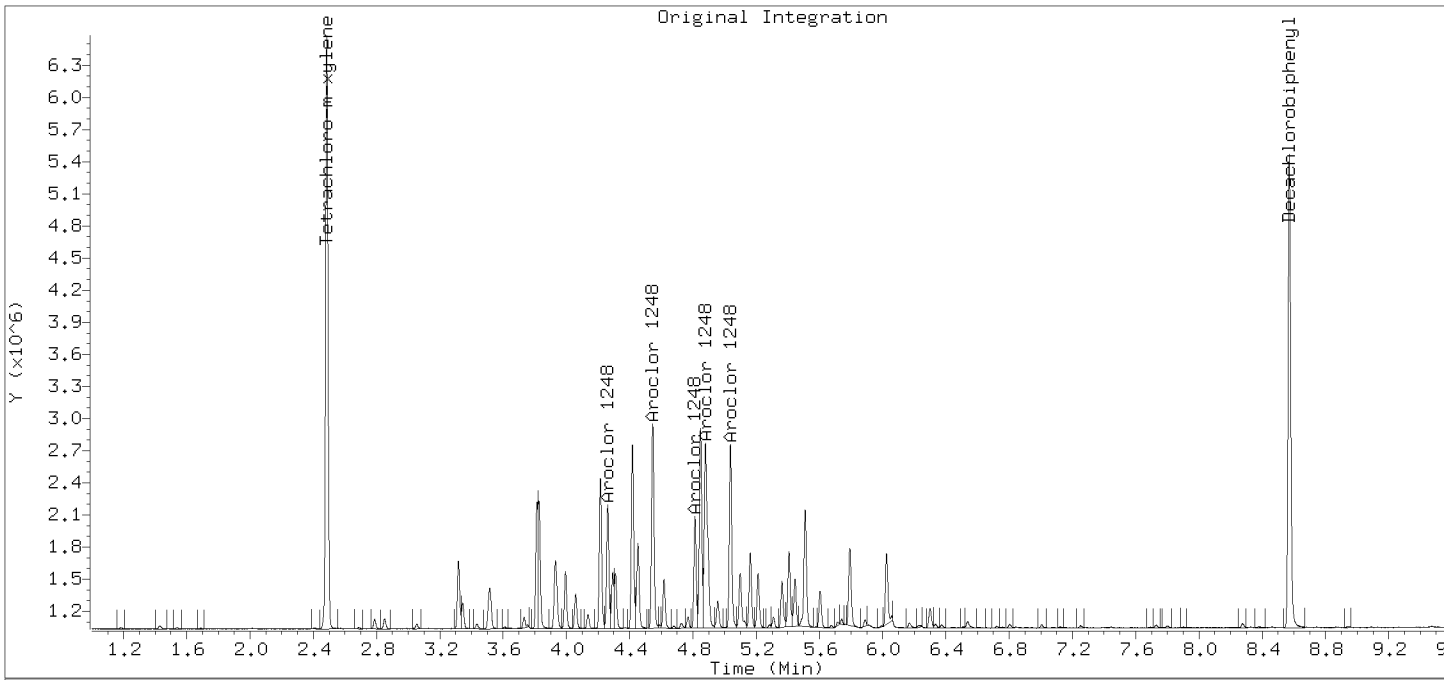
Instrument: 40GCSJ.i

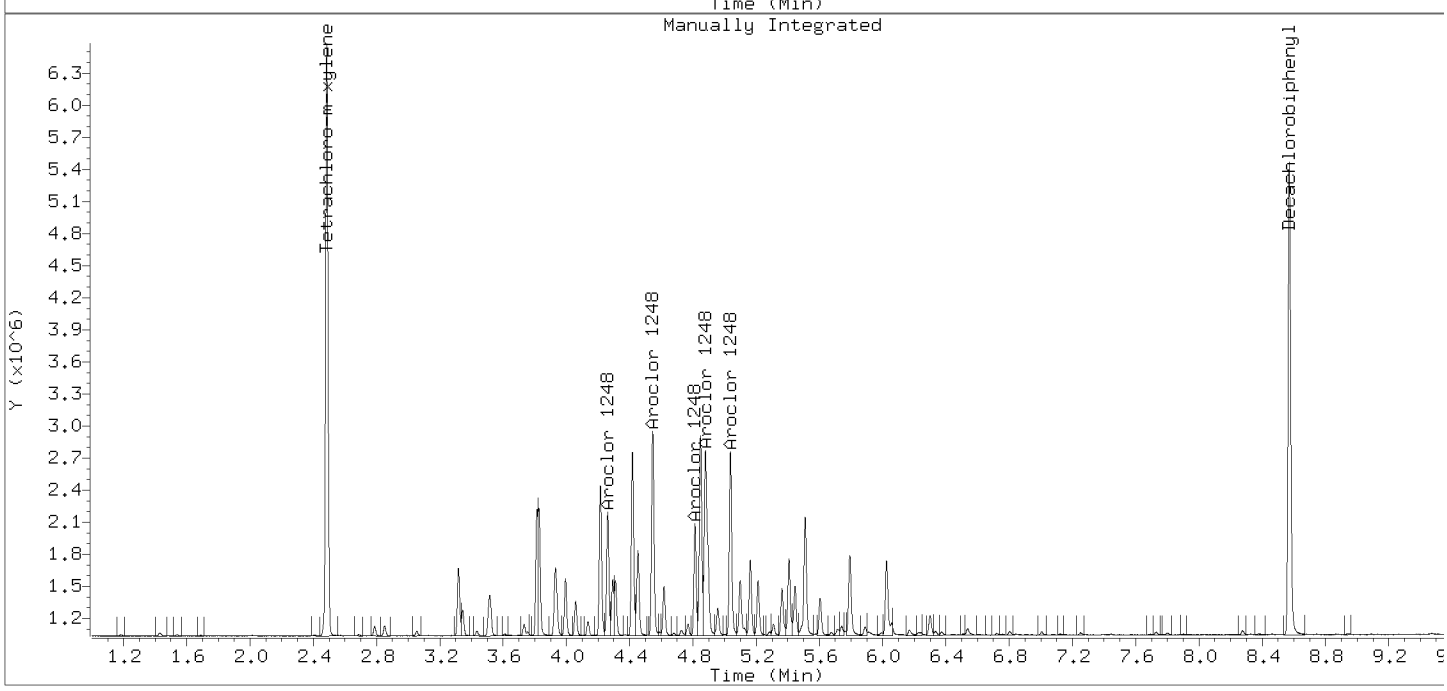
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

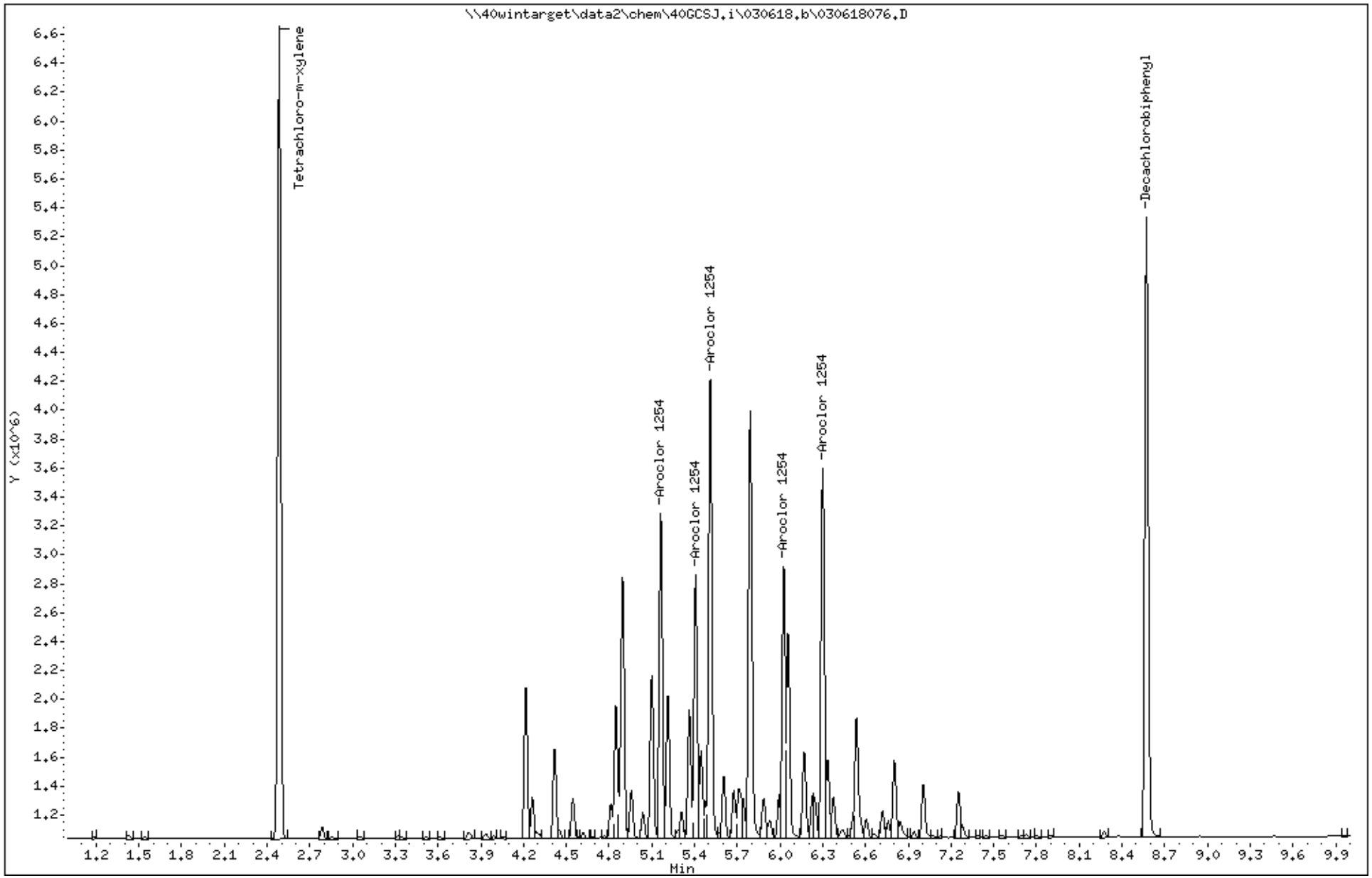
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Date : 06-MAR-2018 21:00
Client ID: 1254-ICV
Sample Info: 1254-ICV, 185564:1

Instrument: 40GCSJ.i

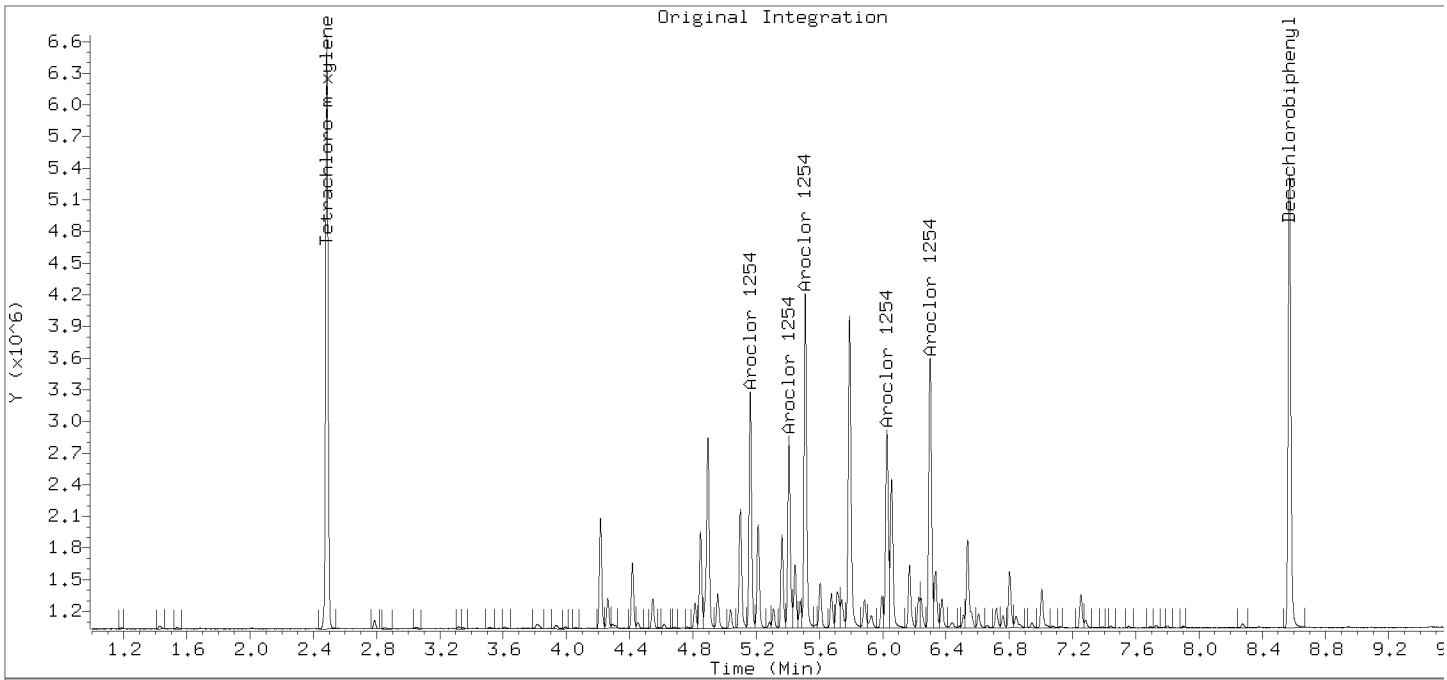
Operator: BLM

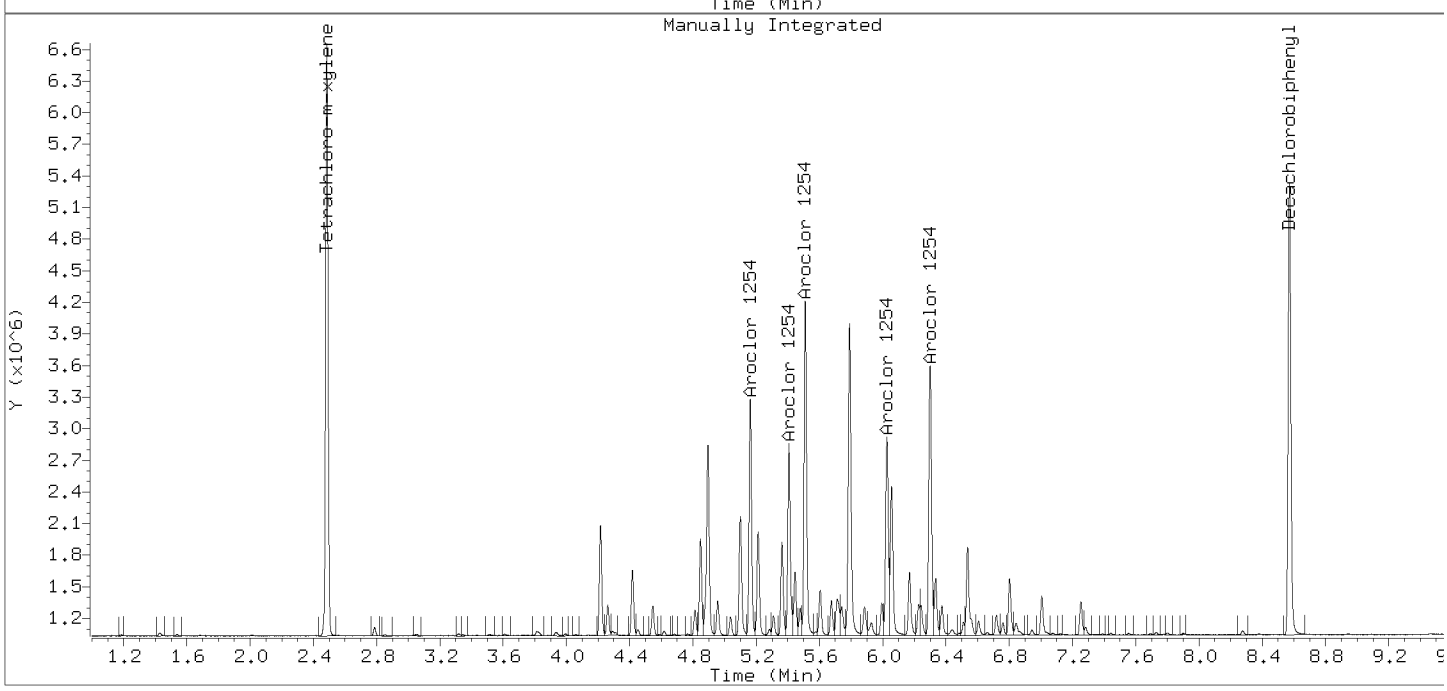
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

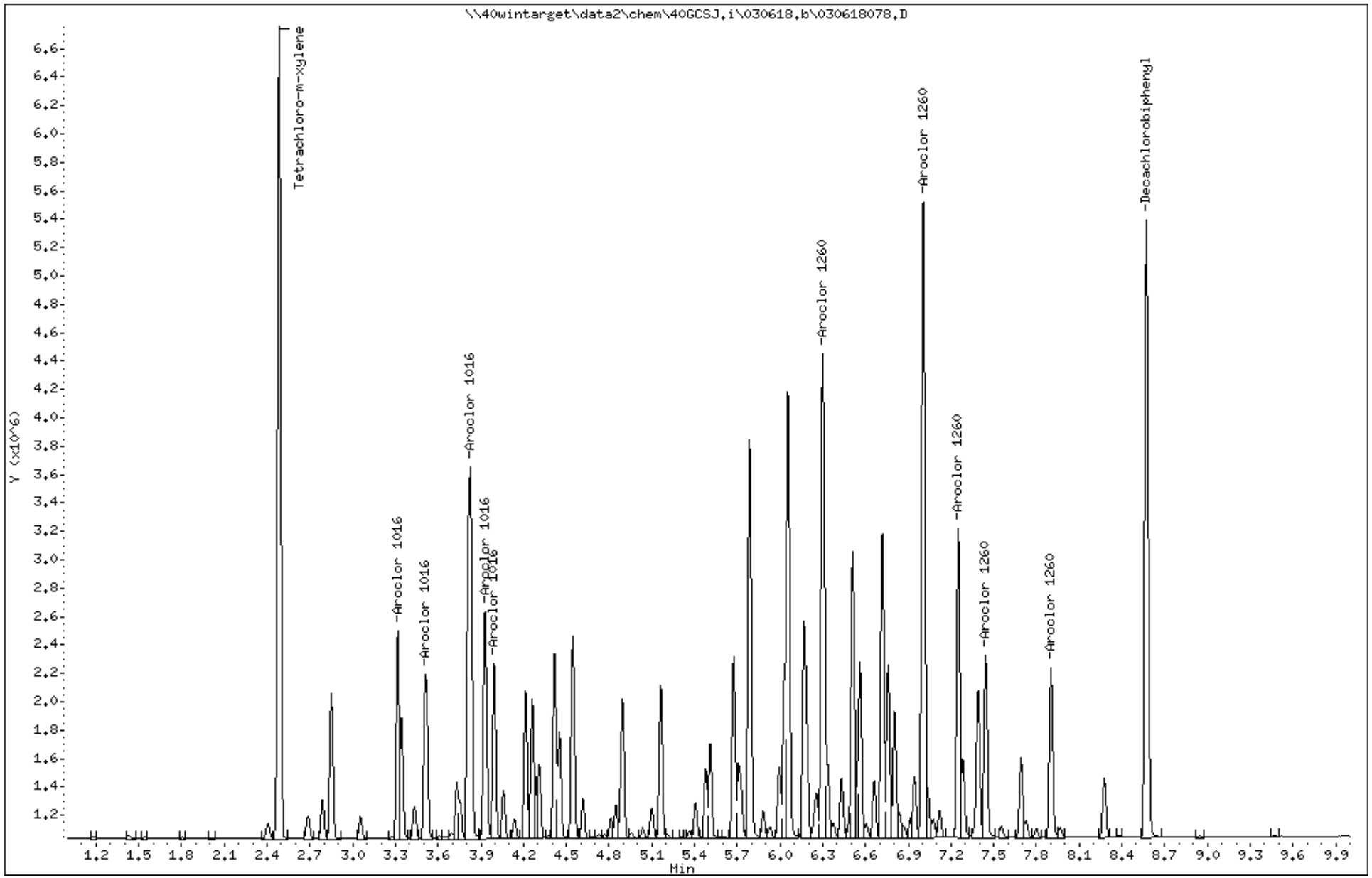
QC Flag Legend

Review Codes Legend

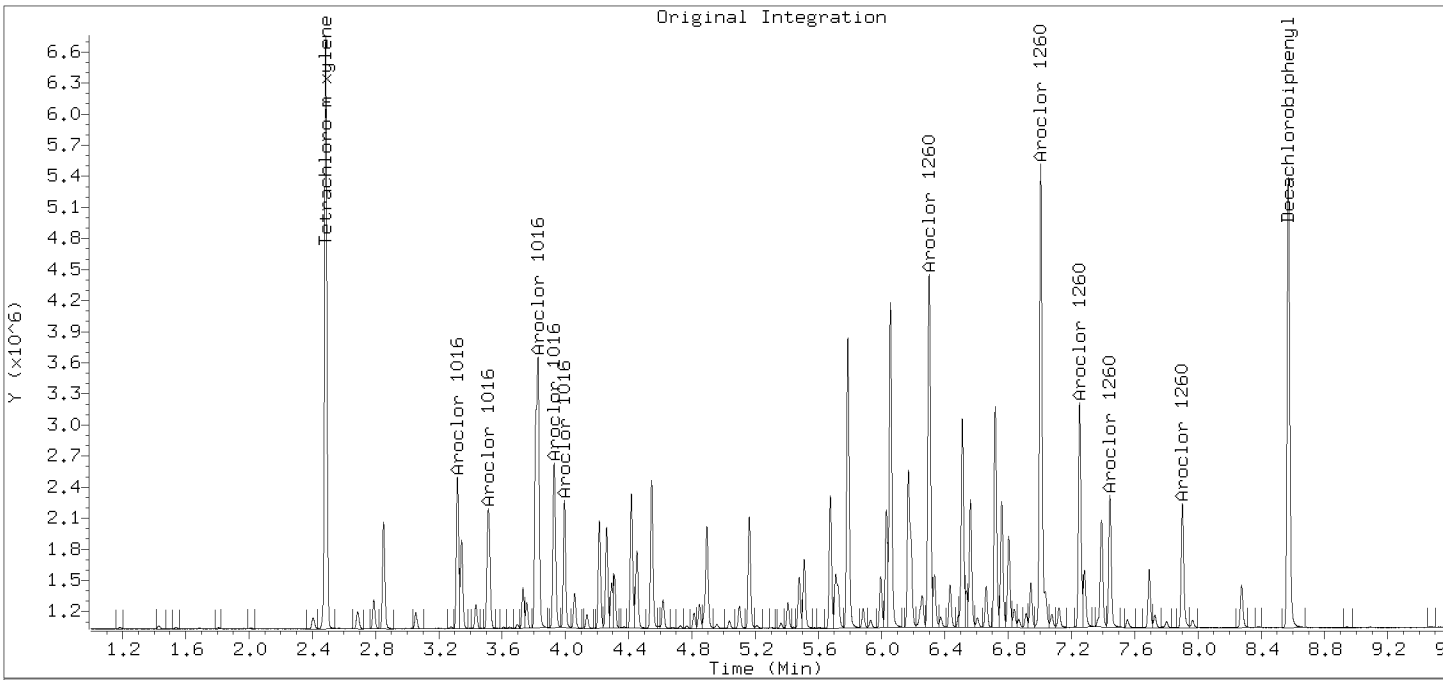
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

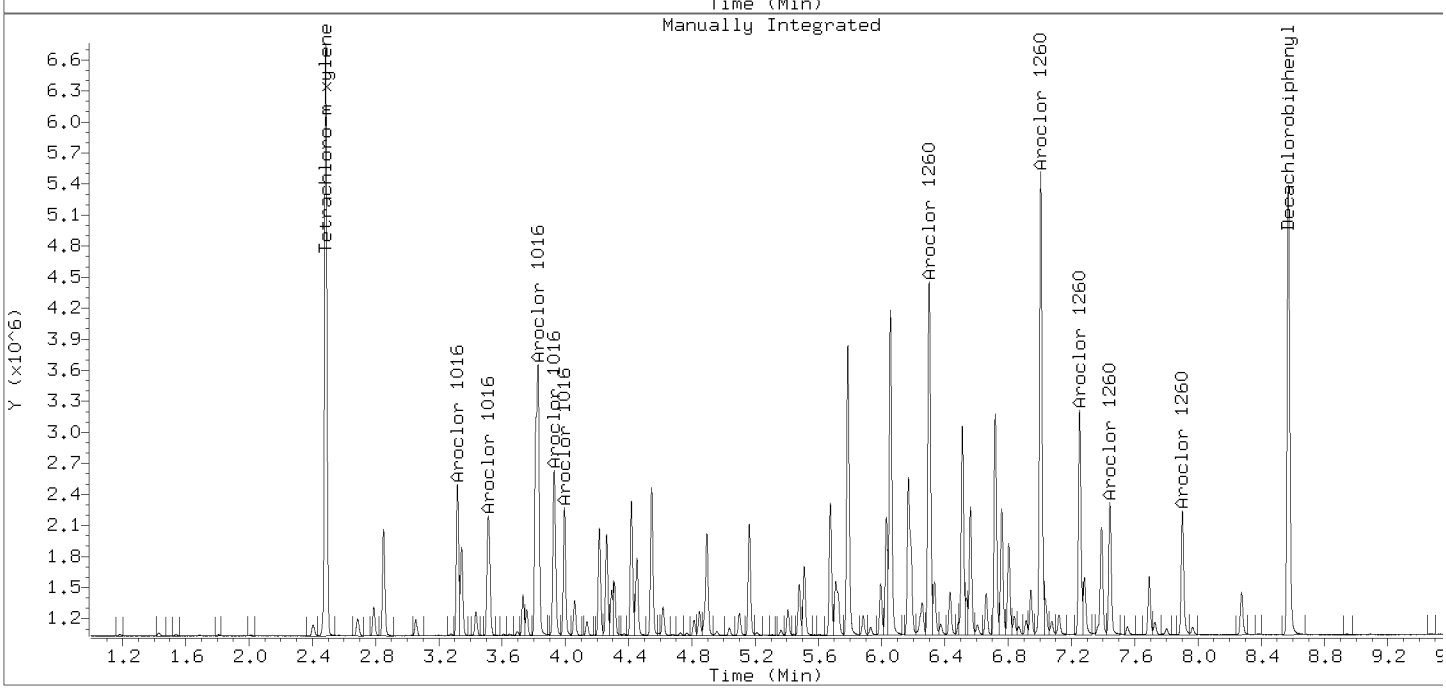
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\041818.b\041818004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 18-APR-2018 13:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 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
1.189	10001	8322	0.832	0.03		
1.430	41888	31549	0.753	0.14		
1.541	21389	15442	0.722	0.07		
1.689	17370	12875	0.741	0.05		
1.805	335657	270590	0.806	1.12		
1.866	9590	5337	0.557	0.03		
2.199	89986	77570	0.862	0.30		
2.409	216539	156812	0.724	0.72		
2.485	6506058	5886146	0.905	22.11	$ 2 Tetrachloro-m-xylene	
2.688	480018	386394	0.805	1.60		
2.790	446566	404704	0.906	1.49		
2.851	1434902	1248466	0.870	4.79	4 Aroclor 1232	BA
3.055	94475	83712	0.886	0.31		
3.281	77644	56158	0.723	0.25		
3.318	821584	723157	0.880	2.74		
3.344	459816	404825	0.880	1.53		
3.434	129758	116663	0.899	0.43		
3.513	757580	542221	0.716	2.53	4 Aroclor 1232	BA
3.607	23026	19215	0.835	0.07		
3.696	26708	23609	0.884	0.08		
3.732	200392	195068	0.973	0.66		
3.756	135114	126483	0.936	0.45		
3.826	2139137	1237403	0.578	7.15	4 Aroclor 1232	BA
3.930	916132	759724	0.829	3.06	4 Aroclor 1232	BA
3.994	599671	563614	0.940	2.00	4 Aroclor 1232	BA
4.058	164100	141937	0.865	0.54		
4.136	64082	57036	0.890	0.21		
4.215	446417	407078	0.912	1.49		
4.261	429933	411225	0.956	1.43		
4.293	184141	189283	1.028	0.61		
4.310	225070	208518	0.926	0.75		
4.372	16653	14620	0.878	0.05		
4.417	591608	563887	0.953	1.97		
4.452	492313	344276	0.699	1.64		
4.546	767581	703380	0.916	2.56		
4.617	187121	168379	0.900	0.62		
4.678	15570	14867	0.955	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	44720	34463	0.771	0.14	
4.767	42305	38971	0.921	0.14	
4.813	346025	327789	0.947	1.15	
4.847	600202	562355	0.937	2.00	
4.879	776881	578269	0.744	2.59	
4.959	88048	67702	0.769	0.29	
5.037	649636	588689	0.906	2.17	
5.099	112369	96647	0.860	0.37	
5.161	147328	128989	0.876	0.49	
5.213	108099	90086	0.833	0.36	
5.309	28778	22914	0.796	0.09	
5.364	86544	75973	0.878	0.28	
5.407	154791	124251	0.803	0.51	
5.445	100327	82682	0.824	0.33	
5.510	263794	192812	0.731	0.88	
5.603	78708	64685	0.822	0.26	
5.672	15364	14521	0.945	0.05	
5.717	21100	14285	0.677	0.07	
5.738	18919	17960	0.949	0.06	
5.791	173321	122830	0.709	0.57	
5.884	17937	15240	0.850	0.05	
6.025	123977	105356	0.850	0.41	
6.055	42735	33234	0.778	0.14	
6.166	12358	12915	1.045	0.04	
6.191	17532	12434	0.709	0.05	
6.301	40362	35011	0.867	0.13	
6.508	12558	12430	0.990	0.04	
6.719	17504	13582	0.776	0.05	
6.805	14295	10207	0.714	0.04	
7.004	30663	23423	0.764	0.10	
7.127	10636	10589	0.996	0.03	
7.249	19410	13217	0.681	0.06	
7.729	28291	27077	0.957	0.09	
7.802	27986	25710	0.919	0.09	
8.276	57750	47029	0.814	0.19	
8.373	12808	11126	0.869	0.04	
8.571	5749503	4629789	0.805	19.22	$ 12 Decachlorobiphenyl
9.086	10182	8878	0.872	0.03	
9.811	15818	16985	1.074	0.05	
9.820	10603	22013	2.076	0.03	
9.852	55010	39060	0.710	0.18	
9.880	153076	43304	0.283	0.51	
	29913844	24996027		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 18-APR-2018 13:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 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	6506058	0.05000	0.053			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1434902	0.50000	0.57	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	757580	0.50000	0.56	0.00- 20.00	52.80	BA
3.826	3.827	-0.001	2139136	0.50000	0.57	0.00- 20.00	149.08	BA
3.929	3.929	0.000	916131	0.50000	0.57	0.00- 20.00	63.85	BA
3.994	3.995	-0.001	599671	0.50000	0.55	0.00- 20.00	41.79	BA
Average of Peak Amounts =					0.56400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5749502	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.

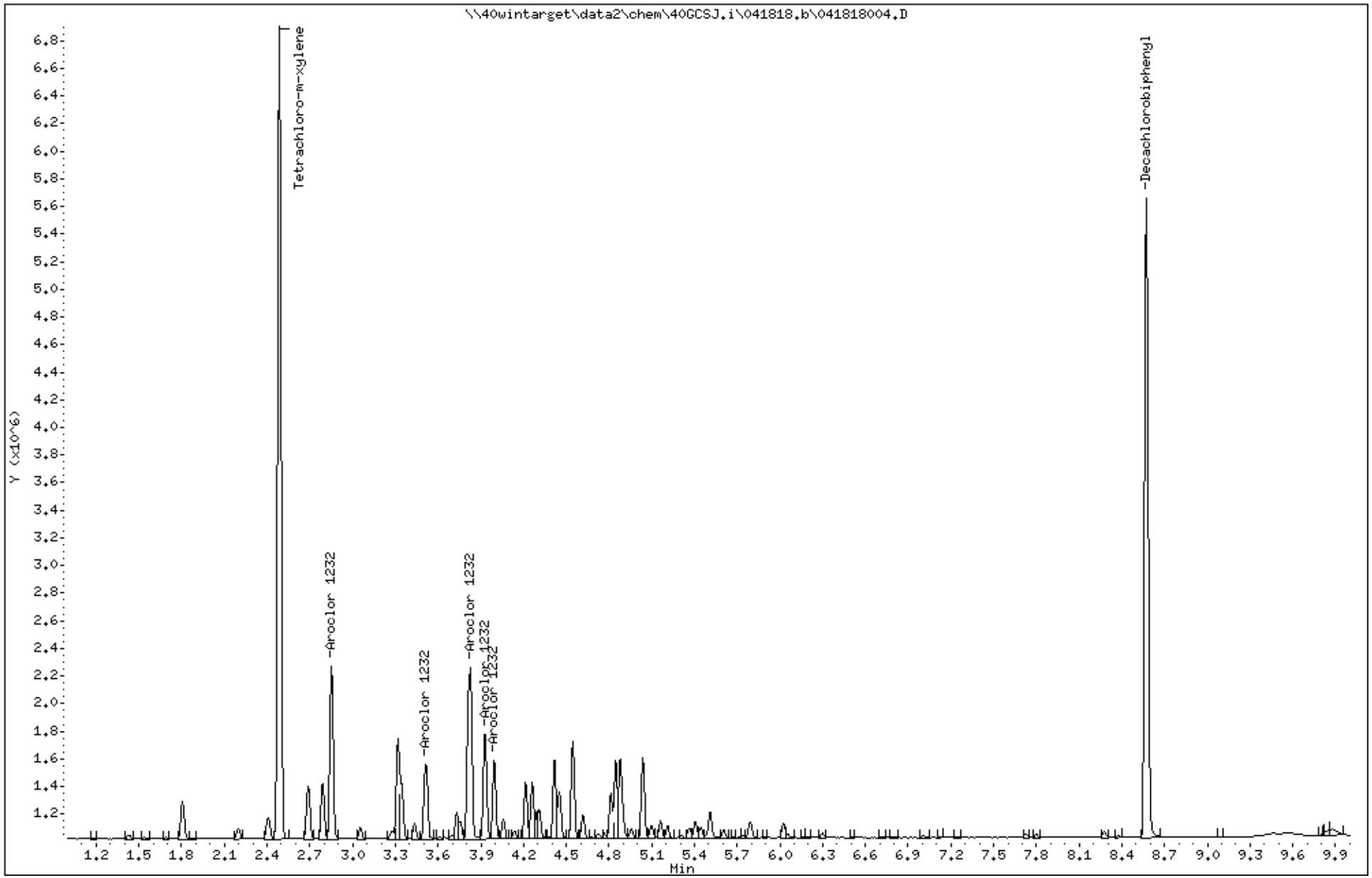
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818004.D
Date : 18-APR-2018 13:13
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSJ.i

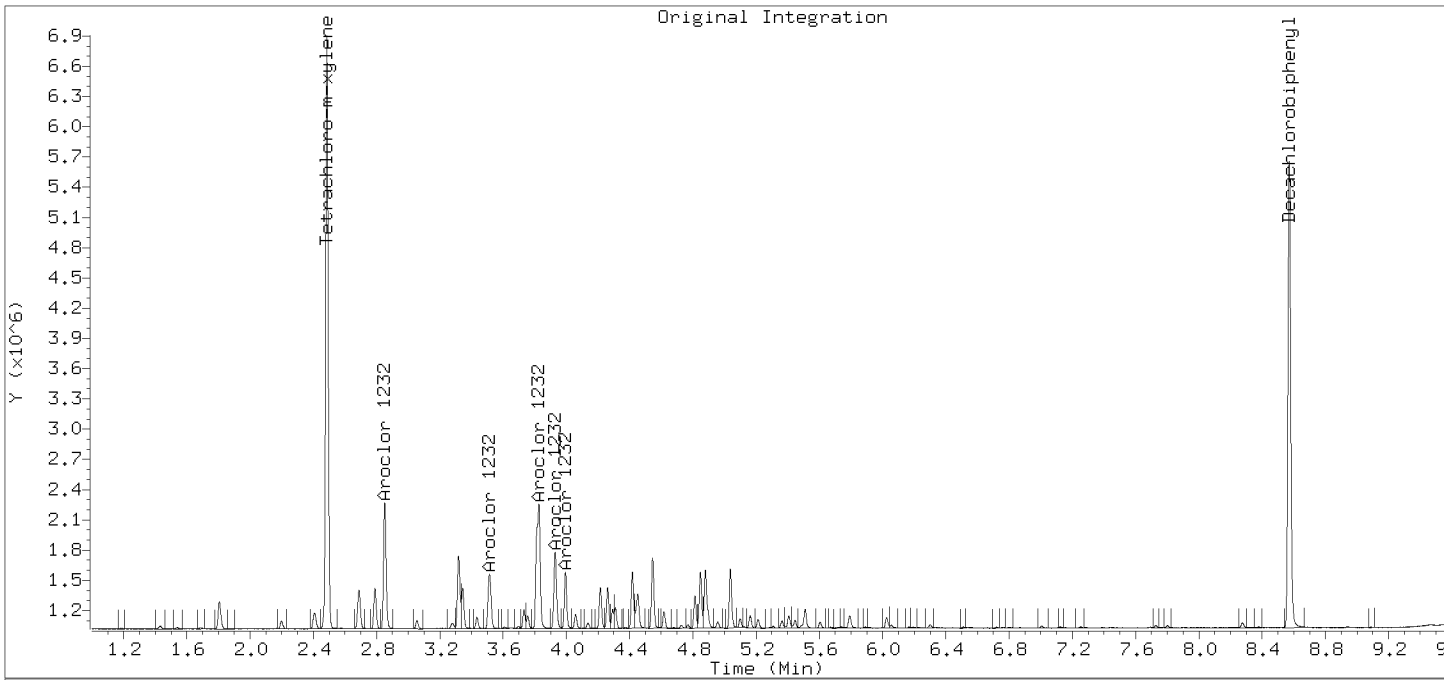
Operator: BLM

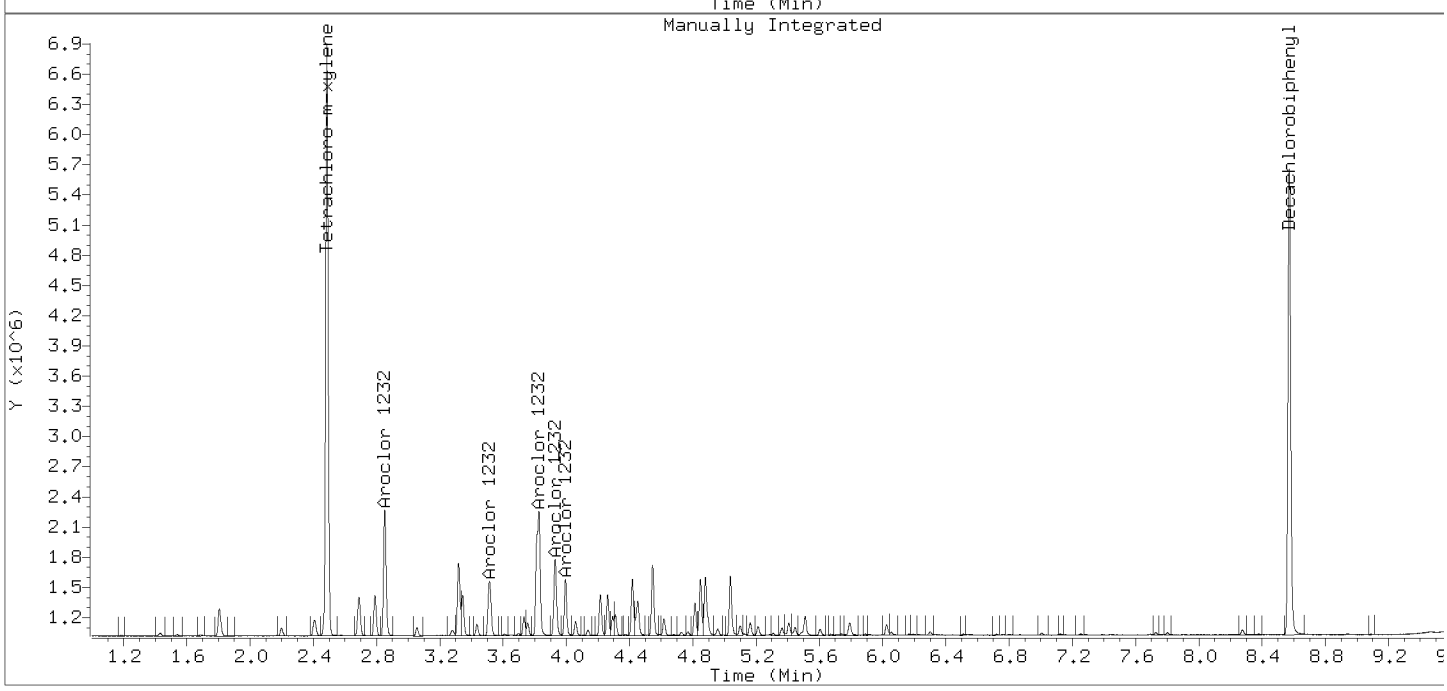
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 18-APR-2018 13:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Tetrachloro-m-xylene	6506058	6506058	
Decachlorobiphenyl	5749502	5749502	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 18-APR-2018 16:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 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
1.184	49404	35064	0.710	0.12		
1.429	32788	28490	0.869	0.08		
1.538	23259	15353	0.660	0.05		
1.686	24024	14183	0.590	0.05		
1.807	18349	13182	0.718	0.04		
2.012	25026	20312	0.812	0.06		
2.405	122454	91006	0.743	0.30		
2.484	6109316	5607440	0.918	15.44	$ 2 Tetrachloro-m-xylene	
2.687	178429	145342	0.815	0.44		
2.789	279354	253649	0.908	0.68		
2.851	975432	877662	0.900	2.40		
3.028	15306	14376	0.939	0.03		
3.054	142724	128904	0.903	0.35		
3.279	23616	18110	0.767	0.05		
3.318	1320543	1219768	0.924	3.25	3 Aroclor 1242	BA
3.344	760416	694731	0.914	1.87		
3.433	216050	185613	0.859	0.53		
3.512	1311273	940994	0.718	3.23	3 Aroclor 1242	BA
3.607	24544	20828	0.849	0.06		
3.646	23719	16211	0.683	0.05		
3.694	38358	37090	0.967	0.09		
3.731	330867	323809	0.979	0.81		
3.755	224359	206872	0.922	0.55		
3.826	3744792	2151803	0.575	9.24	3 Aroclor 1242	BA
3.929	1611336	1330822	0.826	3.97	3 Aroclor 1242	BA
3.994	1079224	1012852	0.939	2.66	3 Aroclor 1242	BA
4.058	325369	287555	0.884	0.80		
4.136	127536	109402	0.858	0.31		
4.215	888681	820047	0.923	2.19		
4.261	852292	816606	0.958	2.10		
4.292	354408	359848	1.015	0.87		
4.309	443035	405577	0.915	1.09		
4.369	28119	21439	0.762	0.06		
4.416	1177036	1091468	0.927	2.90		
4.452	918365	673262	0.733	2.26		
4.545	1541100	1365226	0.886	3.80		
4.617	347821	316651	0.910	0.85		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	29602	19620	0.663	0.07	
4.726	76485	63244	0.827	0.18	
4.768	86113	78466	0.911	0.21	
4.813	711262	669652	0.941	1.75	
4.848	1216834	1138517	0.936	3.00	
4.879	1599785	1163552	0.727	3.94	
4.958	181274	139061	0.767	0.44	
5.038	1301877	1153256	0.886	3.21	
5.099	288194	211421	0.734	0.71	
5.162	330137	278765	0.844	0.81	
5.212	248481	218837	0.881	0.61	
5.281	24013	20091	0.837	0.05	
5.308	60620	47021	0.776	0.14	
5.363	214948	179276	0.834	0.53	
5.406	354415	294240	0.830	0.87	
5.445	227548	193339	0.850	0.56	
5.511	586203	439144	0.749	1.44	
5.604	174824	147236	0.842	0.43	
5.717	47039	30045	0.639	0.11	
5.740	62157	41684	0.671	0.15	
5.792	410781	314105	0.765	1.01	
5.888	64971	38033	0.585	0.16	
6.025	386797	267358	0.691	0.95	
6.170	25804	20736	0.804	0.06	
6.195	21714	16468	0.758	0.05	
6.227	29971	17752	0.592	0.07	
6.298	114662	91743	0.800	0.28	
6.335	27630	22814	0.826	0.06	
6.374	20493	15705	0.766	0.05	
6.449	19635	12021	0.612	0.04	
6.536	45934	33955	0.739	0.11	
6.803	26234	21495	0.819	0.06	
7.251	9642	9635	0.999	0.02	
7.728	29219	24652	0.844	0.07	
7.768	16321	12093	0.741	0.04	
7.802	23685	19758	0.834	0.05	
8.277	52330	43055	0.823	0.12	
8.374	12926	10402	0.805	0.03	
8.571	5583959	4593045	0.823	13.77	$ 12 Decachlorobiphenyl
8.940	26269	13655	0.520	0.06	
9.467	26659	15049	0.565	0.06	
9.961	18294	12887	0.704	0.04	
	40524464	33824430		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 18-APR-2018 16:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6109316	0.05000	0.050			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1320542	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1311273	0.50000	0.52	0.00- 20.00	99.30	BA
3.825	3.827	-0.002	3744792	0.50000	0.53	0.00- 20.00	283.58	BA
3.928	3.929	-0.001	1611335	0.50000	0.53	0.00- 20.00	122.02	BA
3.993	3.995	-0.002	1079223	0.50000	0.53	0.00- 20.00	81.73	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5583959	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.

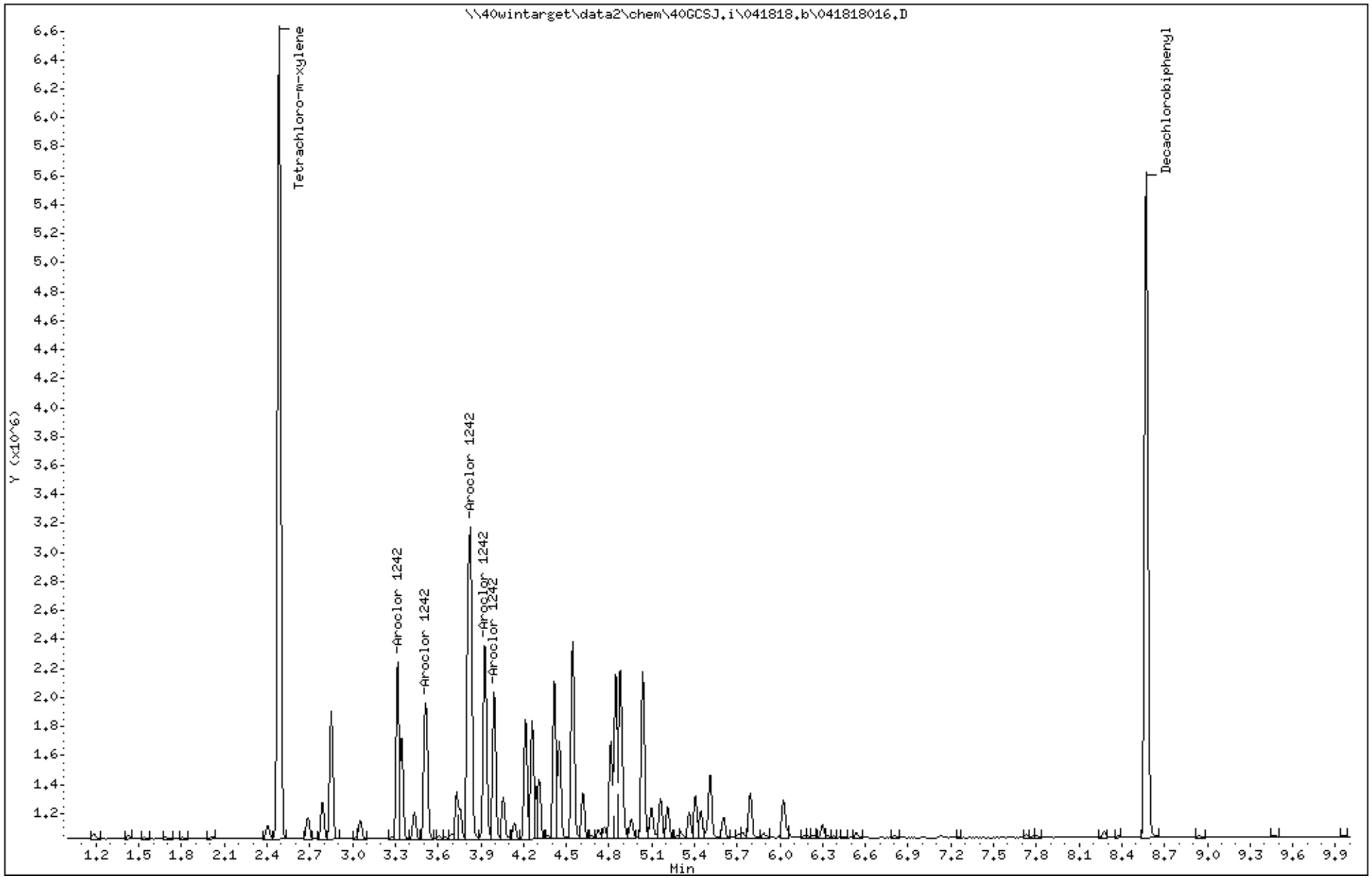
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818016.D
Date : 18-APR-2018 16:24
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

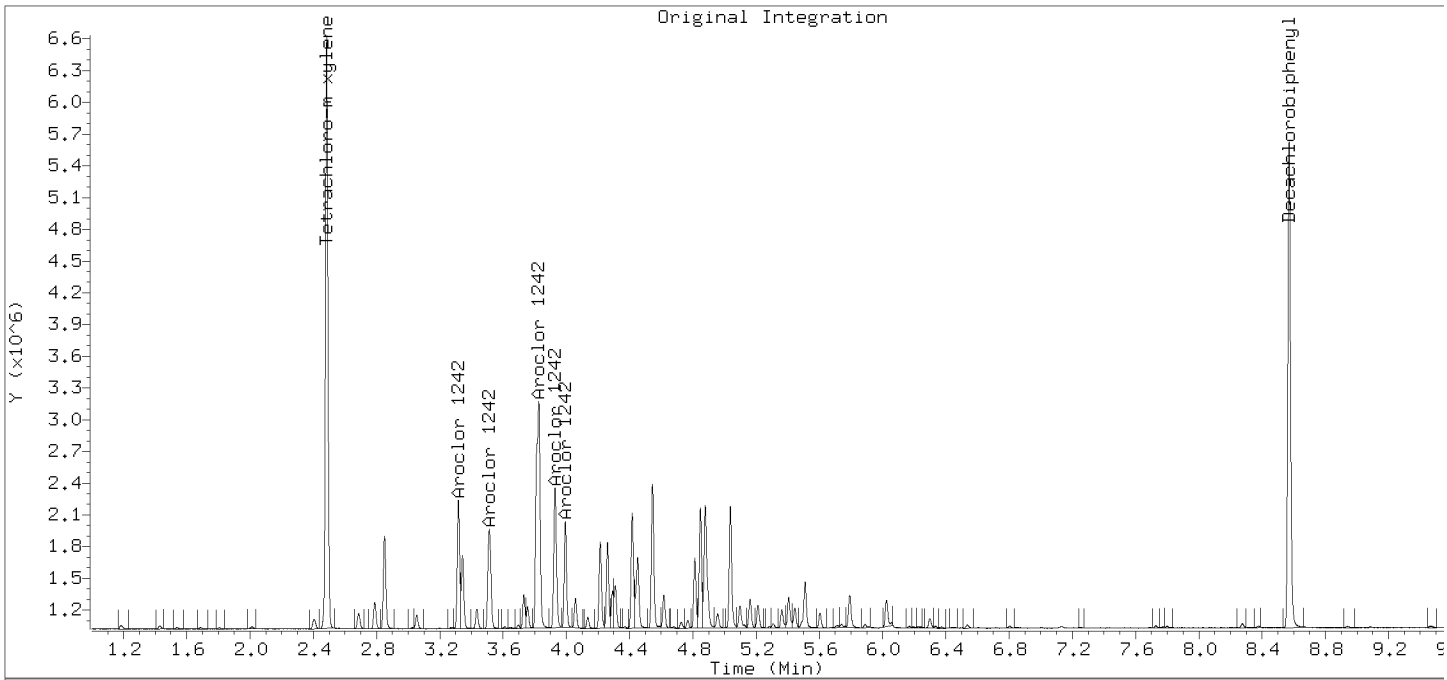
Operator: BLM

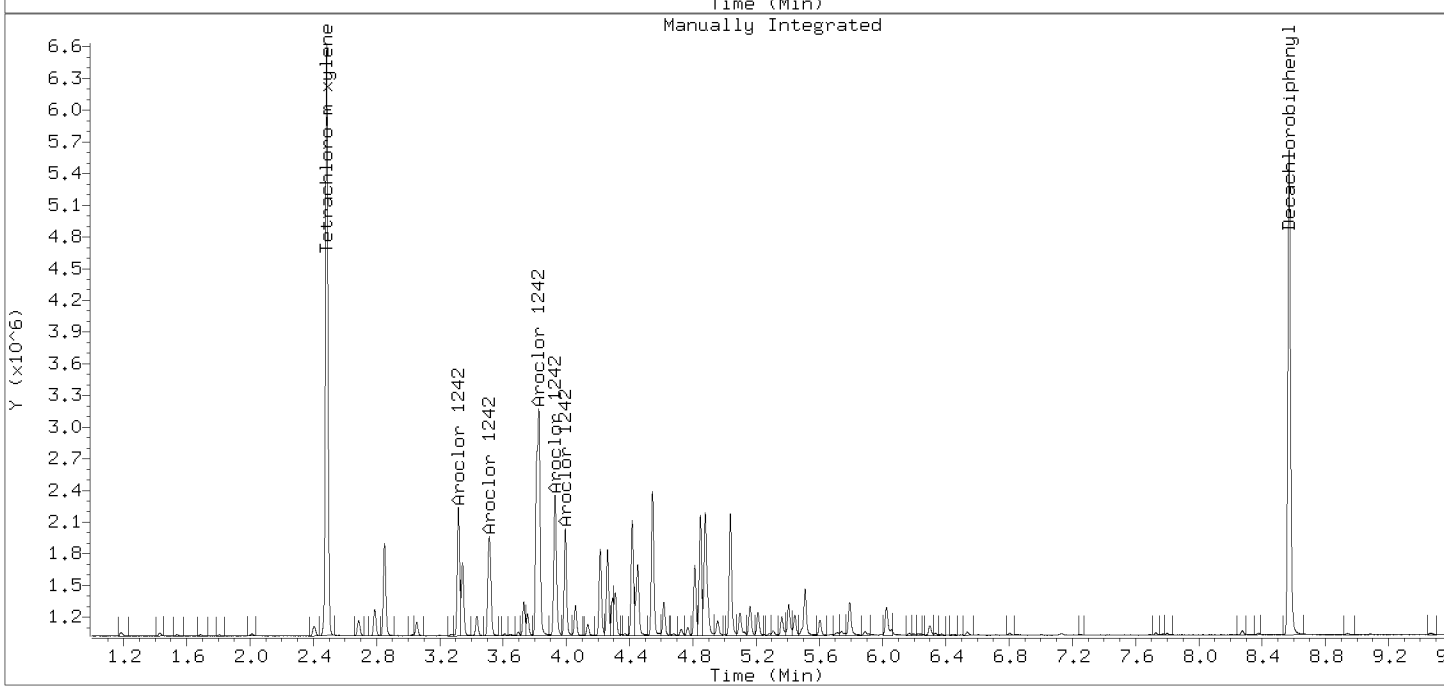
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 18-APR-2018 16:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Tetrachloro-m-xylene	6109316	6109316	
Decachlorobiphenyl	5583959	5583959	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 18-APR-2018 19:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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	29943	21925	0.732	0.06		
1.430	36074	30179	0.837	0.07		
1.542	14694	14843	1.010	0.03		
1.689	18740	15527	0.829	0.04		
2.010	20748	14487	0.698	0.04		
2.405	26950	19863	0.737	0.05		
2.485	6211223	5782667	0.931	13.85	$ 2 Tetrachloro-m-xylene	
2.689	35642	25722	0.722	0.07		
2.789	118146	109705	0.929	0.25		
2.851	198183	179028	0.903	0.42		
3.053	62597	53460	0.854	0.13		
3.318	747935	709282	0.948	1.61		
3.344	309430	292225	0.944	0.66		
3.434	68845	61224	0.889	0.14		
3.515	623544	457949	0.734	1.34		
3.608	20940	21099	1.008	0.04		
3.641	13072	9392	0.718	0.02		
3.732	142033	139294	0.981	0.30		
3.757	70186	58785	0.838	0.15		
3.814	1056557	1280574	1.212	2.28		
3.826	1463073	1358097	0.928	3.15		
3.930	952840	740184	0.777	2.05		
3.994	630681	602095	0.955	1.36		
4.058	361986	330596	0.913	0.78		
4.135	147813	136619	0.924	0.31		
4.214	1542020	1425423	0.924	3.32		
4.261	1234897	1145434	0.928	2.66	6 Aroclor 1248	BA
4.292	518996	524438	1.010	1.12		
4.309	535195	516129	0.964	1.15		
4.417	1891227	1727653	0.914	4.08		
4.452	939097	817852	0.871	2.02		
4.545	2163112	1924752	0.890	4.66	6 Aroclor 1248	BA
4.590	32413	33308	1.028	0.06		
4.617	496460	462300	0.931	1.07		
4.681	27476	21042	0.766	0.05		
4.726	64419	51998	0.807	0.13		
4.767	115823	109423	0.945	0.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	1099987	1071131	0.974	2.37	6 Aroclor 1248
4.847	2106282	1951378	0.926	4.54	
4.878	2686388	1816366	0.676	5.79	6 Aroclor 1248
4.957	310895	256019	0.823	0.67	
5.036	1947986	1812247	0.930	4.20	6 Aroclor 1248
5.098	666610	546767	0.820	1.43	
5.161	810181	726534	0.897	1.74	
5.211	584066	521739	0.893	1.26	
5.282	42100	38074	0.904	0.09	
5.309	127112	108891	0.857	0.27	
5.362	517315	444317	0.859	1.11	
5.405	858585	758571	0.884	1.85	
5.444	531064	463262	0.872	1.14	
5.509	1435456	1190547	0.829	3.09	
5.603	405348	362598	0.895	0.87	
5.676	46700	40754	0.873	0.10	
5.713	89966	67014	0.745	0.19	
5.740	108054	98151	0.908	0.23	
5.763	34862	41261	1.184	0.07	
5.791	985165	839085	0.852	2.12	
5.887	132511	82109	0.620	0.28	
5.995	32196	29312	0.910	0.06	
6.024	846988	751774	0.888	1.82	
6.053	160718	137788	0.857	0.34	
6.168	92139	57527	0.624	0.19	
6.299	254956	216960	0.851	0.55	
6.333	49080	43224	0.881	0.10	
6.374	40788	32425	0.795	0.08	
6.436	23260	13505	0.581	0.05	
6.509	47095	42669	0.906	0.10	
6.536	103257	74413	0.721	0.22	
6.716	43370	37533	0.865	0.09	
6.756	26452	21070	0.797	0.05	
6.802	49752	43672	0.878	0.10	
6.842	28895	15562	0.539	0.06	
6.940	11233	9829	0.875	0.02	
7.005	75797	67610	0.892	0.16	
7.126	19564	11415	0.583	0.04	
7.251	33431	28392	0.849	0.07	
7.389	35303	31149	0.882	0.07	
7.442	38357	31718	0.827	0.08	
7.689	17391	15217	0.875	0.03	
7.726	27844	24499	0.880	0.06	
7.773	12874	8975	0.697	0.02	
7.795	18490	16699	0.903	0.03	
7.898	33942	26067	0.768	0.07	
8.273	71501	53962	0.755	0.15	
8.376	11731	10659	0.909	0.02	
8.570	5633432	4878340	0.866	12.16	$ 12 Decachlorobiphenyl
9.960	14462	8126	0.562	0.03	
	46323939	41201479		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 18-APR-2018 19:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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	6211222	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1234896	0.50000	0.53	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2163112	0.50000	0.52	0.00- 20.00	175.17	BA
4.811	4.812	-0.001	1099987	0.50000	0.54	0.00- 20.00	89.08	BA
4.878	4.879	-0.001	2686387	0.50000	0.53	0.00- 20.00	217.54	BA
5.035	5.038	-0.003	1947985	0.50000	0.54	0.00- 20.00	157.74	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5633432	0.05000	0.051			

QC Flag Legend

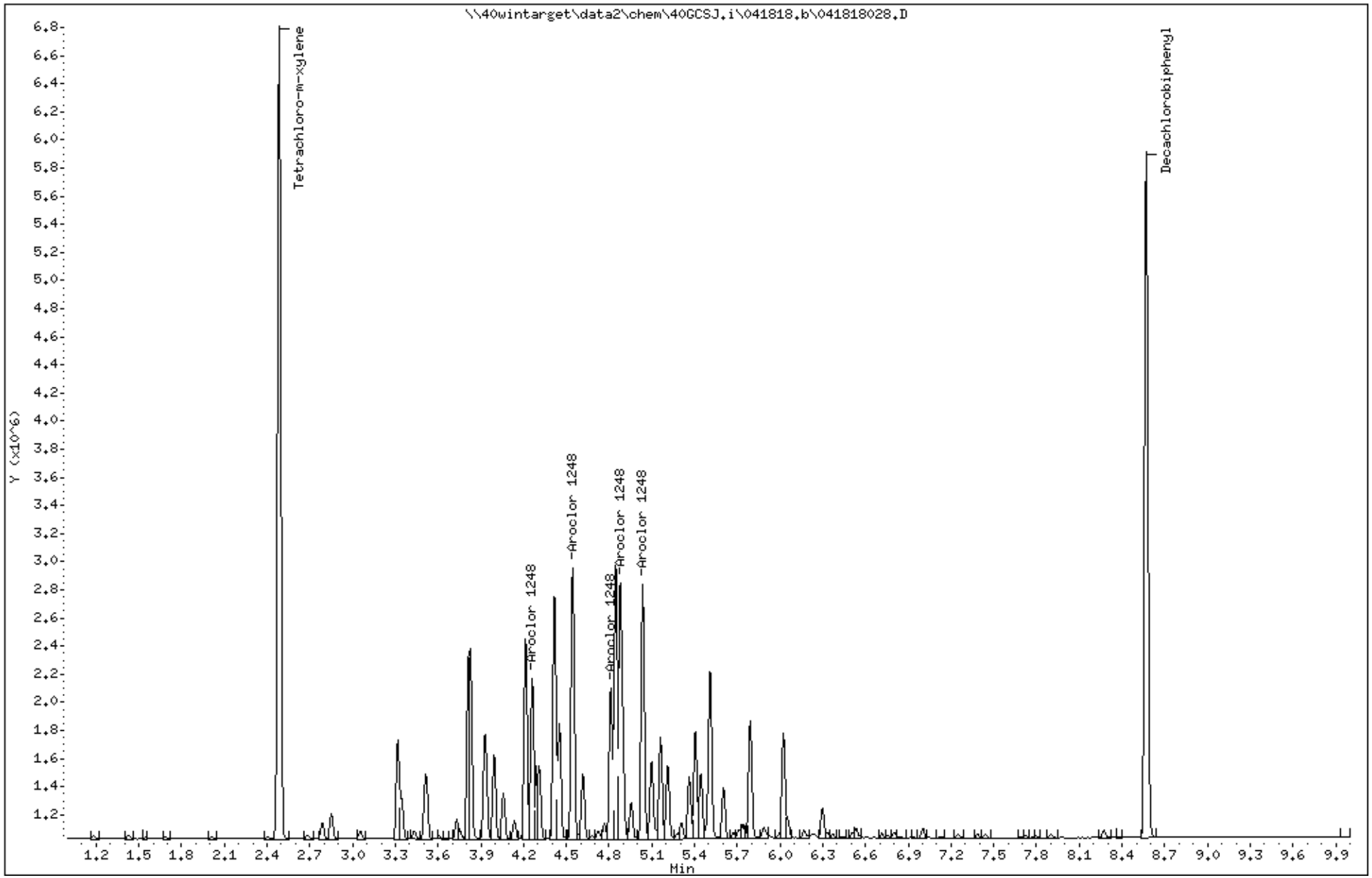
M - Compound response manually integrated.

Review Codes Legend

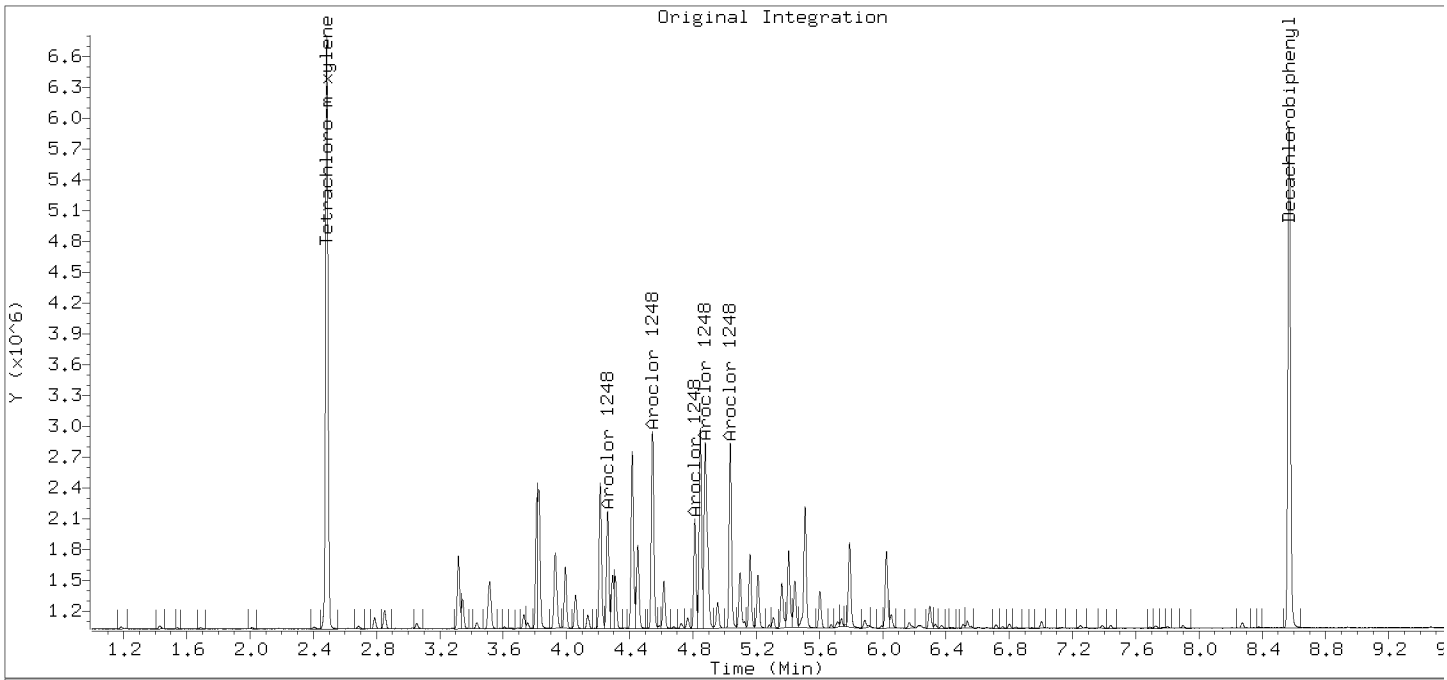
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

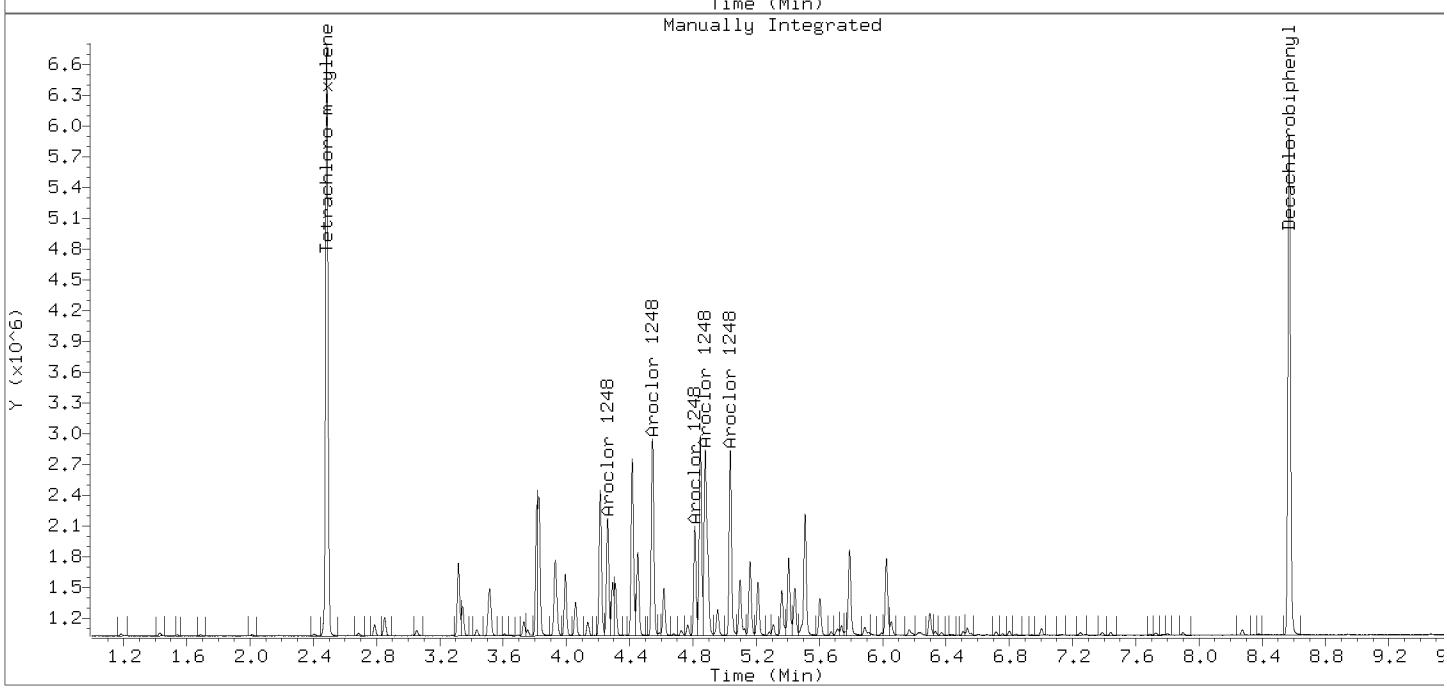
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818028.D
Date : 18-APR-2018 19:34
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 18-APR-2018 19:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1229145	1234896	BA
Aroclor 1248	1229145	1234896	BA
Aroclor 1248	1229145	1234896	BA
Aroclor 1248	1229145	1234896	BA
Aroclor 1248	1229145	1234896	BA
Tetrachloro-m-xylene	6211222	6211222	
Decachlorobiphenyl	5633432	5633432	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818033.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 18-APR-2018 20:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 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	38617	25470	0.660	0.06		
1.430	38827	29990	0.772	0.06		
1.541	17460	12985	0.744	0.03		
1.686	23386	16180	0.692	0.04		
2.014	25482	14945	0.587	0.04		
2.485	6355886	5846124	0.920	11.60	$ 2 Tetrachloro-m-xylene	
2.786	93171	85234	0.915	0.16		
2.848	25284	19681	0.778	0.04		
3.052	23985	17202	0.717	0.04		
3.318	33644	29823	0.886	0.05		
3.345	15978	17984	1.126	0.02		
3.516	32435	23462	0.723	0.05		
3.608	24320	21672	0.891	0.04		
3.814	108747	61952	0.570	0.19		
3.934	67238	45939	0.683	0.11		
3.993	35964	30925	0.860	0.06		
4.055	26842	20838	0.776	0.04		
4.214	1307243	1210892	0.926	2.29		
4.260	352943	340740	0.965	0.61		
4.291	73649	53165	0.722	0.12		
4.417	798793	766598	0.960	1.39		
4.451	84389	69993	0.829	0.14		
4.545	359643	341645	0.950	0.63		
4.589	13813	14431	1.045	0.02		
4.617	64507	58294	0.904	0.11		
4.684	22185	16792	0.757	0.03		
4.729	13347	10808	0.810	0.02		
4.768	24287	20886	0.860	0.04		
4.812	314429	311707	0.991	0.55		
4.847	1203664	1141331	0.948	2.10		
4.894	2556702	1985745	0.777	4.47		
4.956	411472	366928	0.892	0.72		
5.036	264333	244972	0.927	0.46		
5.098	1498558	1323723	0.883	2.62		
5.162	2771669	2503718	0.903	4.85	7 Aroclor 1254	BA
5.212	1268770	1146912	0.904	2.22		
5.285	66341	62408	0.941	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.308	229031	209271	0.914	0.40	
5.362	1105089	1015912	0.919	1.93	
5.405	2312993	2069101	0.895	4.05	7 Aroclor 1254
5.445	790964	733851	0.928	1.38	
5.477	280197	263001	0.939	0.49	
5.508	4141323	3776248	0.912	7.25	7 Aroclor 1254
5.577	33689	32298	0.959	0.05	
5.603	572062	530899	0.928	1.00	
5.673	368386	344162	0.934	0.64	
5.712	581817	385650	0.663	1.01	
5.740	363274	307928	0.848	0.63	
5.789	4243475	3340082	0.787	7.43	
5.884	374151	291981	0.780	0.65	
5.926	195429	123862	0.634	0.34	
5.992	340816	328108	0.963	0.59	
6.025	2716326	2301352	0.847	4.75	7 Aroclor 1254
6.054	1879816	1637068	0.871	3.29	
6.167	770089	649378	0.843	1.34	
6.226	321038	321192	1.000	0.56	
6.239	338935	308908	0.911	0.59	
6.298	3573208	2979410	0.834	6.25	7 Aroclor 1254
6.333	618228	566122	0.916	1.08	
6.372	345960	300697	0.869	0.60	
6.439	89114	56366	0.633	0.15	
6.509	128991	133982	1.039	0.22	
6.535	1221052	964231	0.790	2.13	
6.603	176524	148346	0.840	0.30	
6.658	34061	25735	0.756	0.05	
6.717	233136	196269	0.842	0.40	
6.758	140729	127385	0.905	0.24	
6.801	693195	632095	0.912	1.21	
6.841	183254	124525	0.680	0.32	
6.941	62657	54237	0.866	0.10	
7.003	487549	390269	0.800	0.85	
7.074	22088	17710	0.802	0.03	
7.125	28459	14144	0.497	0.04	
7.249	388225	359218	0.925	0.68	
7.281	78480	69123	0.881	0.13	
7.388	18960	16285	0.859	0.03	
7.444	29852	23139	0.775	0.05	
7.552	28473	22323	0.784	0.04	
7.690	21350	17295	0.810	0.03	
7.726	26562	22301	0.840	0.04	
7.776	12660	10979	0.867	0.02	
7.800	20009	15203	0.760	0.03	
7.899	26908	22560	0.838	0.04	
8.274	59993	49029	0.817	0.10	
8.376	22619	14445	0.639	0.03	
8.569	5851025	5083257	0.869	10.25	$ 12 Decachlorobiphenyl
8.937	10431	7494	0.718	0.01	
9.466	19038	11018	0.579	0.03	
9.963	12044	8604	0.714	0.02	
	57081733	49766142		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818033.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 18-APR-2018 20:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 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	6355886	0.05000	0.052			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2771669	0.50000	0.53	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2312993	0.50000	0.54	0.00- 20.00	83.45	BA
5.508	5.510	-0.002	4141322	0.50000	0.53	0.00- 20.00	149.42	BA
6.024	6.027	-0.003	2716325	0.50000	0.56	0.00- 20.00	98.00	BA
6.298	6.299	-0.001	3573207	0.50000	0.55	0.00- 20.00	128.92	BA
Average of Peak Amounts =					0.54200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5851024	0.05000	0.053			

QC Flag Legend

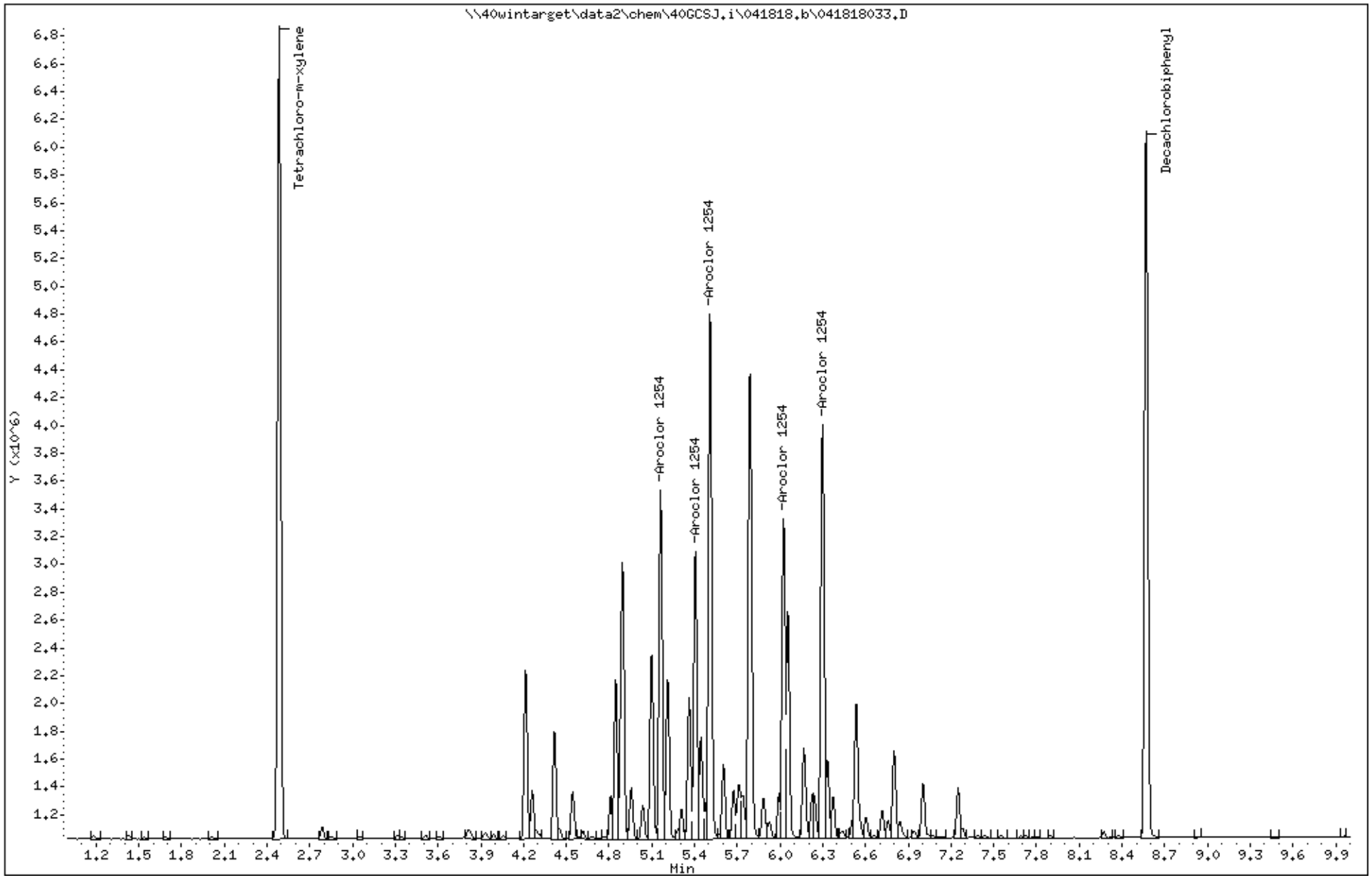
M - Compound response manually integrated.

Review Codes Legend

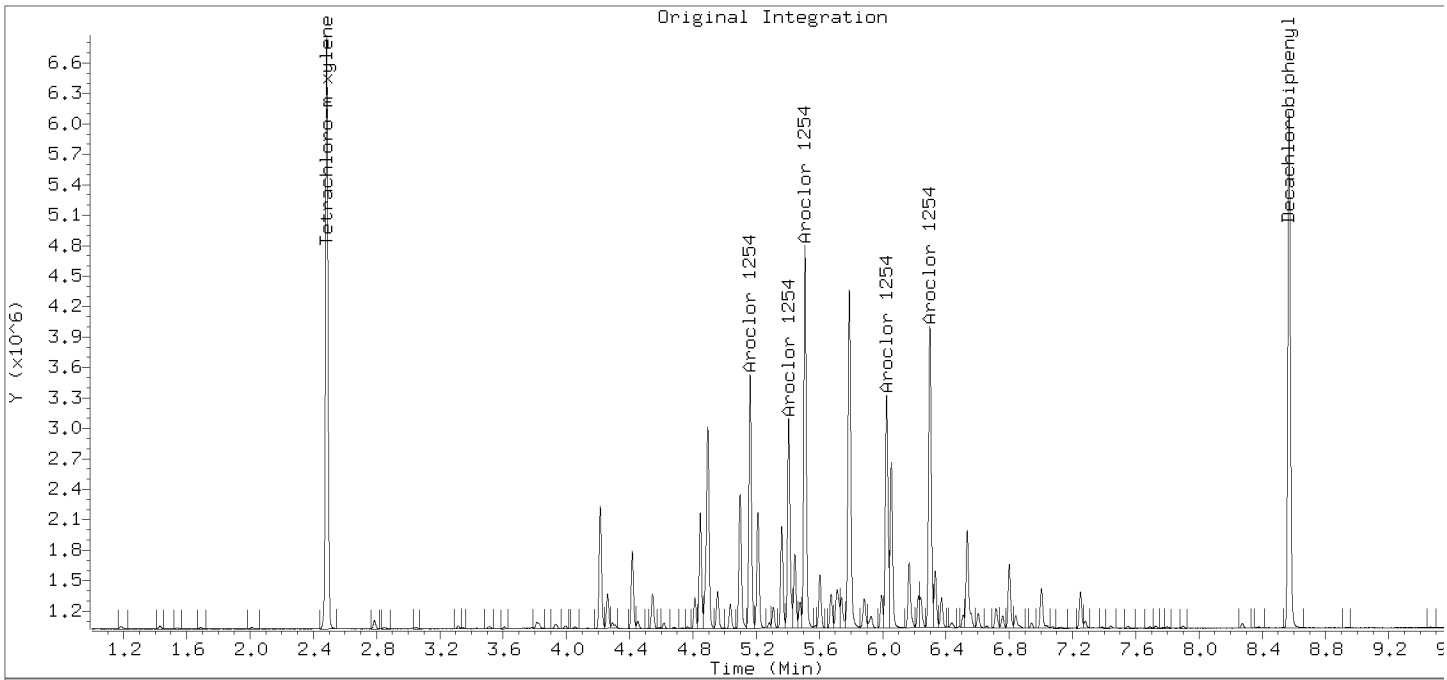
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

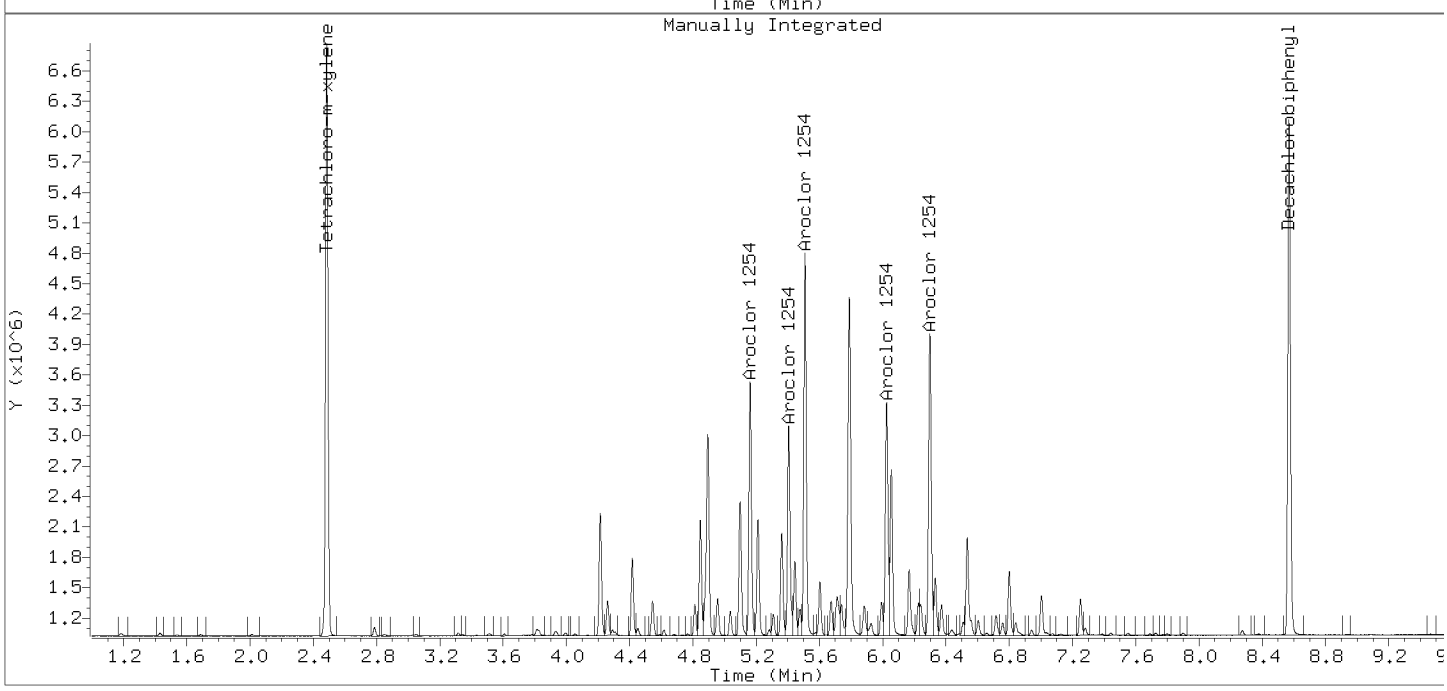
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818033.D
Date : 18-APR-2018 20:53
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818033.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 18-APR-2018 20:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2755520	2771669	BA
Aroclor 1254	2755520	2771669	BA
Aroclor 1254	2755520	2771669	BA
Aroclor 1254	2755520	2771669	BA
Aroclor 1254	2755520	2771669	BA
Tetrachloro-m-xylene	6355886	6355886	
Decachlorobiphenyl	5851024	5851024	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 19-APR-2018 14:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 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
1.183	36130	22514	0.623	0.03		
1.432	45963	30263	0.658	0.04		
1.686	20596	14858	0.721	0.02		
1.805	20062	12914	0.644	0.02		
2.014	21203	15512	0.732	0.02		
2.191	9764	6066	0.621	0.01		
2.407	151924	111796	0.736	0.16		
2.486	6730345	5856595	0.870	7.67	$ 2 Tetrachloro-m-xylene	
2.689	229224	176090	0.768	0.24		
2.790	341020	297327	0.872	0.36		
2.853	1250082	1074157	0.859	1.32		
3.056	189515	159918	0.844	0.20		
3.276	29251	22962	0.785	0.03		
3.319	1695584	1515767	0.894	1.80	5 Aroclor 1016	BA
3.345	983601	877919	0.893	1.04		
3.435	277360	240257	0.866	0.29		
3.515	1689918	1199447	0.710	1.79	5 Aroclor 1016	BA
3.610	24023	21070	0.877	0.02		
3.649	31337	19034	0.607	0.03		
3.697	47792	45396	0.950	0.05		
3.732	431187	413001	0.958	0.45		
3.757	292386	265782	0.909	0.31		
3.826	4854950	2827426	0.582	5.16	5 Aroclor 1016	BA
3.929	2074756	1672870	0.806	2.20	5 Aroclor 1016	BA
3.995	1390046	1283068	0.923	1.47	5 Aroclor 1016	BA
4.059	410694	354419	0.863	0.43		
4.137	158350	141678	0.895	0.16		
4.215	1226670	1140456	0.930	1.30		
4.261	1102415	1031590	0.936	1.17		
4.293	442217	467682	1.058	0.47		
4.311	587918	540829	0.920	0.62		
4.368	40131	28259	0.704	0.04		
4.417	1526347	1413915	0.926	1.62		
4.452	1110606	859216	0.774	1.18		
4.546	1916010	1740330	0.908	2.03		
4.590	26093	25996	0.996	0.02		
4.618	438530	403121	0.919	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	30643	23853	0.778	0.03	
4.727	70469	56489	0.802	0.07	
4.767	63241	57076	0.903	0.06	
4.813	350499	337011	0.962	0.37	
4.848	550952	526985	0.956	0.58	
4.895	1751340	1287204	0.735	1.86	
4.958	112690	91231	0.810	0.11	
5.038	102806	92853	0.903	0.10	
5.101	371274	315694	0.850	0.39	
5.162	1448976	1326925	0.916	1.54	
5.212	70783	54788	0.774	0.07	
5.305	21366	14734	0.690	0.02	
5.363	98782	89347	0.904	0.10	
5.407	412013	361444	0.877	0.43	
5.478	577240	552654	0.957	0.61	
5.510	999856	911404	0.912	1.06	
5.601	19507	16670	0.855	0.02	
5.675	1471293	1378389	0.937	1.56	
5.709	1007379	572942	0.569	1.07	
5.785	3630539	3069925	0.846	3.86	
5.882	247938	220776	0.890	0.26	
5.930	120029	91788	0.765	0.12	
5.994	614184	603922	0.983	0.65	
6.028	1395663	1328810	0.952	1.48	
6.056	4024804	3472384	0.863	4.28	
6.169	2573967	1633794	0.635	2.73	
6.254	587768	343475	0.584	0.62	
6.298	4879328	3934823	0.806	5.19	8 Aroclor 1260
6.334	697171	630108	0.904	0.74	
6.373	180593	142529	0.789	0.19	
6.431	504667	434303	0.861	0.53	
6.485	102666	134731	1.312	0.10	
6.509	2431111	2157483	0.887	2.58	
6.534	428963	472074	1.101	0.45	
6.560	1491579	1294821	0.868	1.58	
6.603	156947	131737	0.839	0.16	
6.660	469489	448891	0.956	0.49	
6.717	2562675	2356506	0.920	2.72	
6.758	1448960	1243354	0.858	1.54	
6.802	1186624	1051309	0.886	1.26	
6.838	220712	190337	0.862	0.23	
6.867	116509	95025	0.816	0.12	
6.911	165555	155297	0.938	0.17	
6.942	507260	470569	0.928	0.53	
7.003	5572595	4847704	0.870	5.92	8 Aroclor 1260
7.034	363359	361470	0.995	0.38	
7.073	173011	140293	0.811	0.18	
7.121	256160	208747	0.815	0.27	
7.251	2658537	2296084	0.864	2.82	8 Aroclor 1260
7.282	768026	616066	0.802	0.81	
7.388	1350632	1099813	0.814	1.43	
7.441	1612538	1361959	0.845	1.71	8 Aroclor 1260
7.551	119293	90200	0.756	0.12	
7.690	661775	570839	0.863	0.70	
7.726	103391	89799	0.869	0.10	
7.799	84168	70692	0.840	0.08	
7.899	1463168	1241299	0.848	1.55	8 Aroclor 1260

Data File: ...wintarget\data2\chem\40GCSJ.i\041918.b\041918004.D Page 3
Report Date: 20-Apr-2018 07:05

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.964	104838	79896	0.762	0.11	
8.071	14257	8859	0.621	0.01	
8.274	385867	336836	0.873	0.41	
8.376	23453	16832	0.718	0.02	
8.570	6096420	5103836	0.837	6.48	$ 12 Decachlorobiphenyl
8.938	14580	11745	0.806	0.01	
9.086	12575	8661	0.689	0.01	
9.843	26001	11221	0.432	0.02	
	93995453	79078815		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 19-APR-2018 14:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 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			
2.486	2.484	0.002	6730344	0.05000	0.054			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	1695583	0.50000	0.55	0.00- 20.00	100.00(M)	BA
3.514	3.512	0.002	1689917	0.50000	0.54	0.00- 20.00	99.67	BA
3.826	3.826	0.000	4854949	0.50000	0.55	0.00- 20.00	286.33	BA
3.929	3.929	0.000	2074756	0.50000	0.55	0.00- 20.00	122.36	BA
3.994	3.994	0.000	1390045	0.50000	0.53	0.00- 20.00	81.98	BA
Average of Peak Amounts =					0.54400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4879327	0.50000	0.55	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	5572594	0.50000	0.56	0.00- 20.00	114.21	CO
7.251	7.251	0.000	2658536	0.50000	0.56	0.00- 20.00	54.49	CO
7.441	7.443	-0.002	1612538	0.50000	0.55	0.00- 20.00	33.05	CO
7.899	7.901	-0.002	1463167	0.50000	0.55	0.00- 20.00	29.99	CO
Average of Peak Amounts =					0.55400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	6096419	0.05000	0.056			

QC Flag Legend

M - Compound response manually integrated.

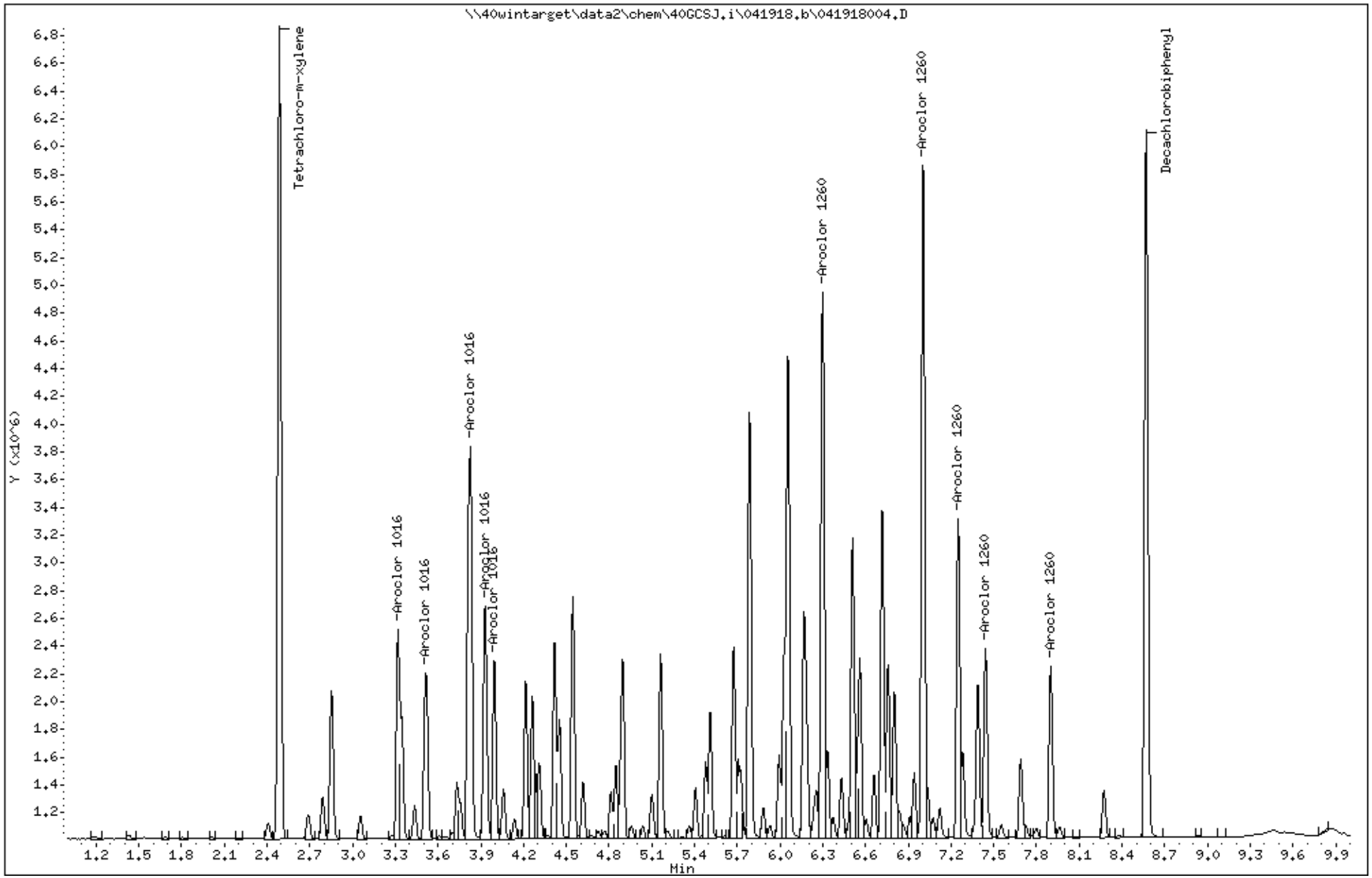
QC Flag Legend

Review Codes Legend

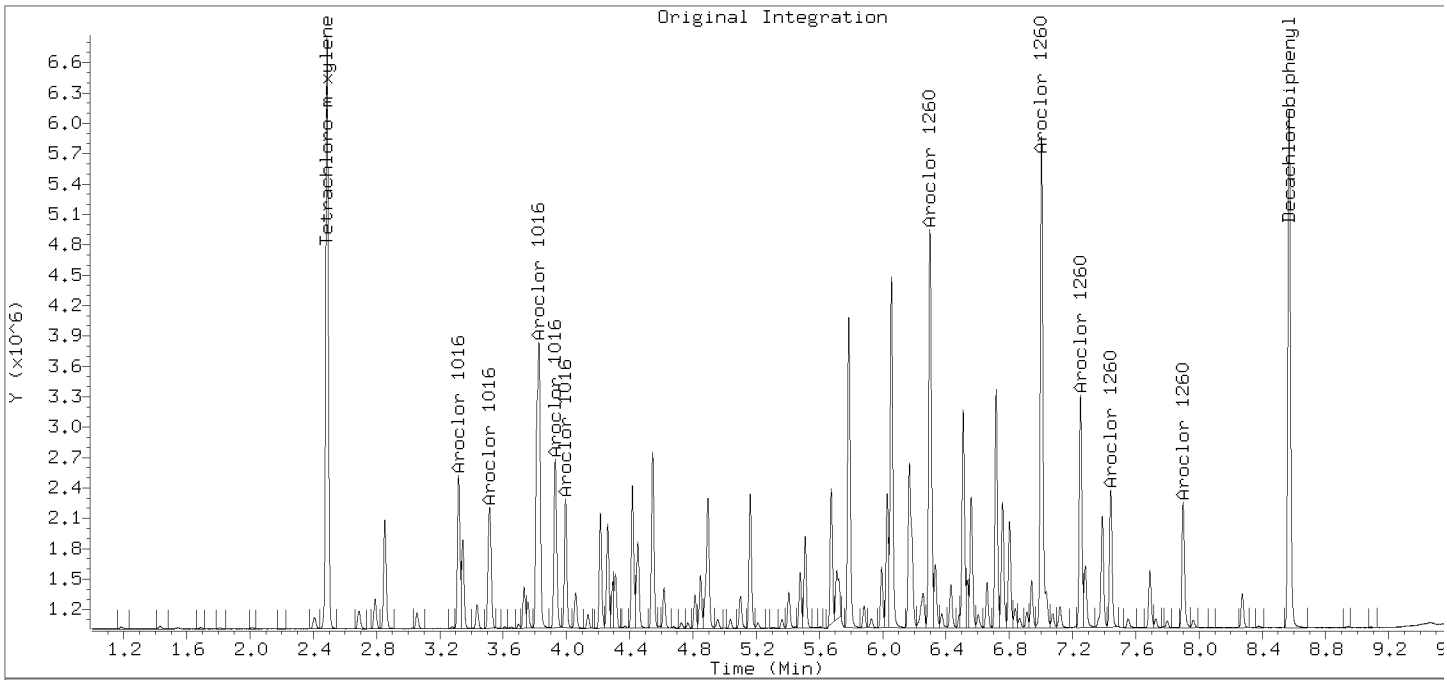
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

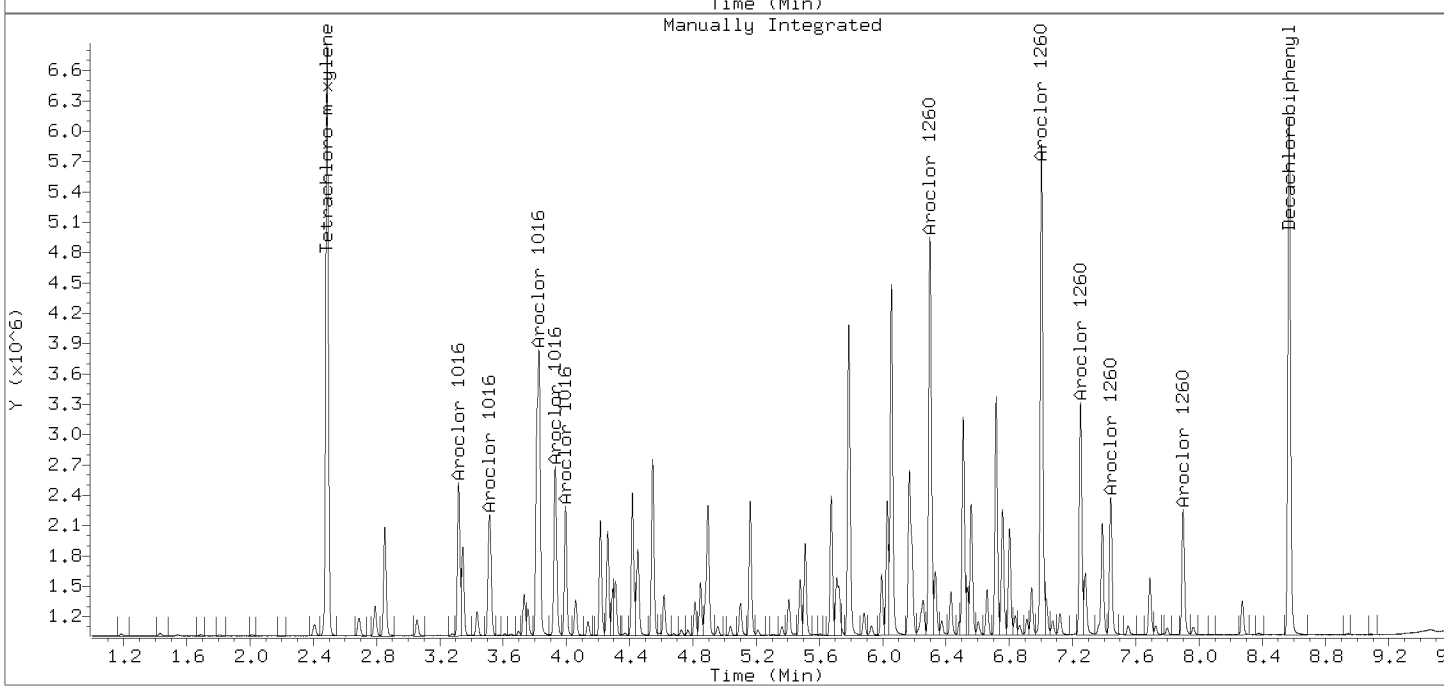
Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918004.D
Date : 19-APR-2018 14:08
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b/041918004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 19-APR-2018 14:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1685772	1695583	BA
Aroclor 1016	1685772	1695583	BA
Aroclor 1016	1685772	1695583	BA
Aroclor 1016	1685772	1695583	BA
Aroclor 1016	1685772	1695583	BA
Aroclor 1260	4861940	4879327	CO
Aroclor 1260	4861940	4879327	CO
Aroclor 1260	4861940	4879327	CO
Aroclor 1260	4861940	4879327	CO
Aroclor 1260	4861940	4879327	CO
Tetrachloro-m-xylene	6730344	6730344	
Decachlorobiphenyl	6096419	6096419	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918008.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 19-APR-2018 15:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.184	45629	35272	0.773	0.25			
1.431	38001	31765	0.836	0.21			
1.541	19147	14880	0.777	0.10			
1.685	19554	15852	0.811	0.11			
1.804	518371	416170	0.803	2.91		1 Aroclor 1221	BA
2.012	31838	22378	0.703	0.17			
2.159	11831	9770	0.826	0.06			
2.198	169988	134954	0.794	0.95			
2.408	269782	193620	0.718	1.51		1 Aroclor 1221	BA
2.485	6032792	5527477	0.916	34.21	$	2 Tetrachloro-m-xylene	BA
2.689	700940	562214	0.802	3.94		1 Aroclor 1221	BA
2.789	546207	503105	0.921	3.07		1 Aroclor 1221	BA
2.851	1680593	1447964	0.862	9.45		1 Aroclor 1221	BA
3.030	18714	16534	0.883	0.10			
3.051	36597	28436	0.777	0.20			
3.280	124762	91290	0.732	0.70			
3.325	412161	229047	0.556	2.31			
3.434	39680	33797	0.852	0.22			
3.513	147511	105304	0.714	0.83			
3.609	15759	19786	1.256	0.08			
3.697	11399	11245	0.987	0.06			
3.732	40656	40585	0.998	0.22			
3.757	53622	39856	0.743	0.30			
3.826	343751	203784	0.593	1.93			
3.928	168359	135589	0.805	0.94			
3.994	106702	96458	0.904	0.60			
4.053	27951	22580	0.808	0.15			
4.133	16684	7990	0.479	0.09			
4.214	34344	33250	0.968	0.19			
4.261	28071	28543	1.017	0.15			
4.415	41061	41043	1.000	0.23			
4.452	54377	31733	0.584	0.30			
4.545	52722	49581	0.940	0.29			
4.615	15113	14343	0.949	0.08			
4.811	20285	20129	0.992	0.11			
4.848	32753	30720	0.938	0.18			
4.879	49269	37846	0.768	0.27			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.036	39217	30810	0.786	0.22	
5.163	17986	11016	0.612	0.10	
5.212	9586	8872	0.926	0.05	
5.508	14511	10343	0.713	0.08	
5.700	12707	9063	0.713	0.07	
6.026	9464	7692	0.813	0.05	
7.726	23722	22842	0.963	0.13	
7.772	12832	11639	0.907	0.07	
7.797	21322	18632	0.874	0.12	
8.273	54937	42913	0.781	0.30	
8.375	19380	15234	0.786	0.10	
8.570	5492793	4706837	0.857	30.91	$ 12 Decachlorobiphenyl
8.939	24287	15101	0.622	0.13	
9.459	18068	13428	0.743	0.10	
9.958	18865	13759	0.729	0.10	
	17766650	15223071		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918008.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 19-APR-2018 15:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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	6032791	0.05000	0.049		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	518371	0.50000	0.50	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	269782	0.50000	0.49	0.00- 20.00	52.04	BA
2.688	2.688	0.000	700939	0.50000	0.51	0.00- 20.00	135.22	BA
2.789	2.789	0.000	546206	0.50000	0.49	0.00- 20.00	105.37	BA
2.851	2.851	0.000	1680592	0.50000	0.52	0.00- 20.00	324.21	BA
Average of Peak Amounts =					0.50200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5492793	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

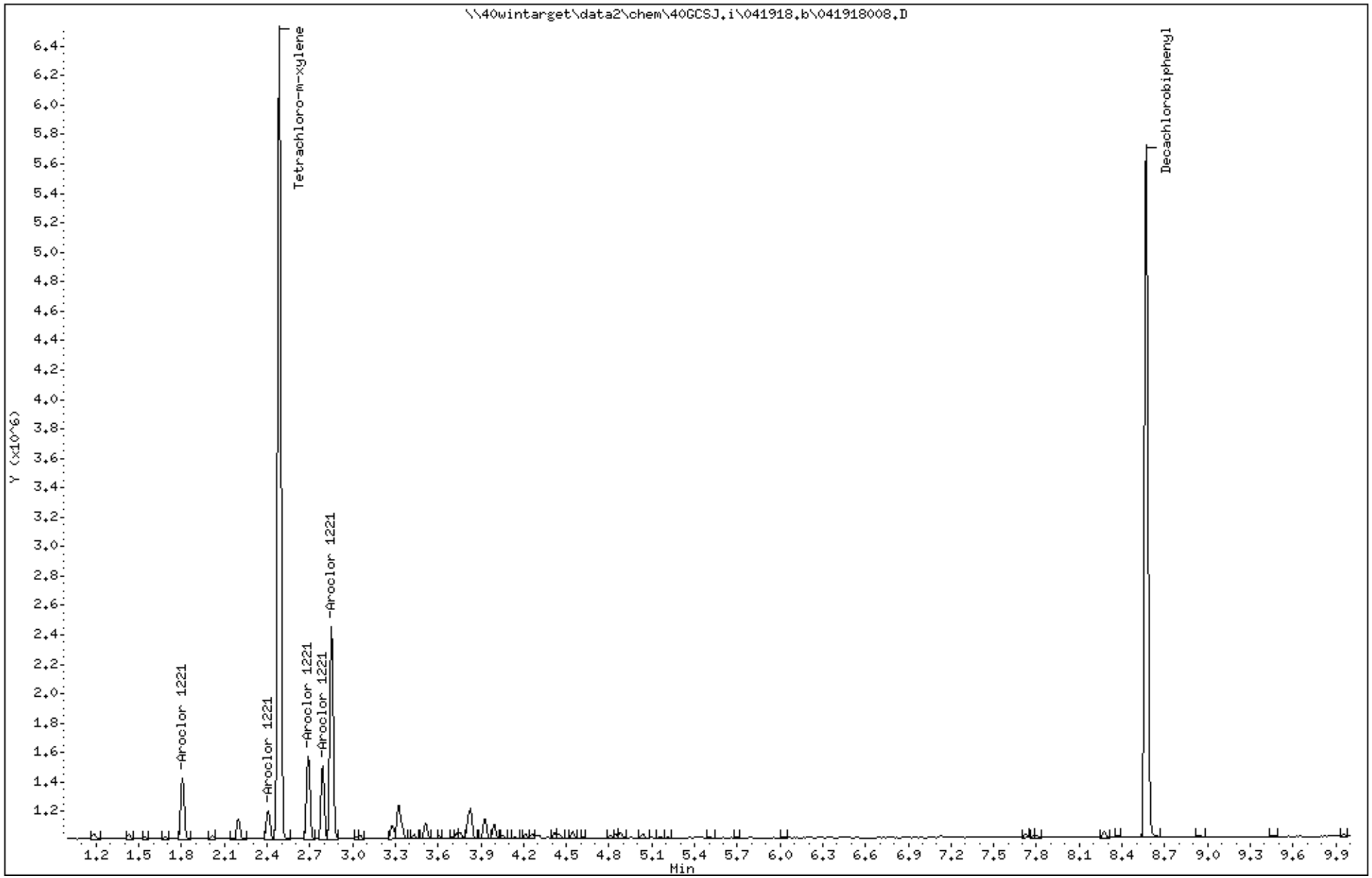
Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918008.D
Date : 19-APR-2018 15:11
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSJ.i

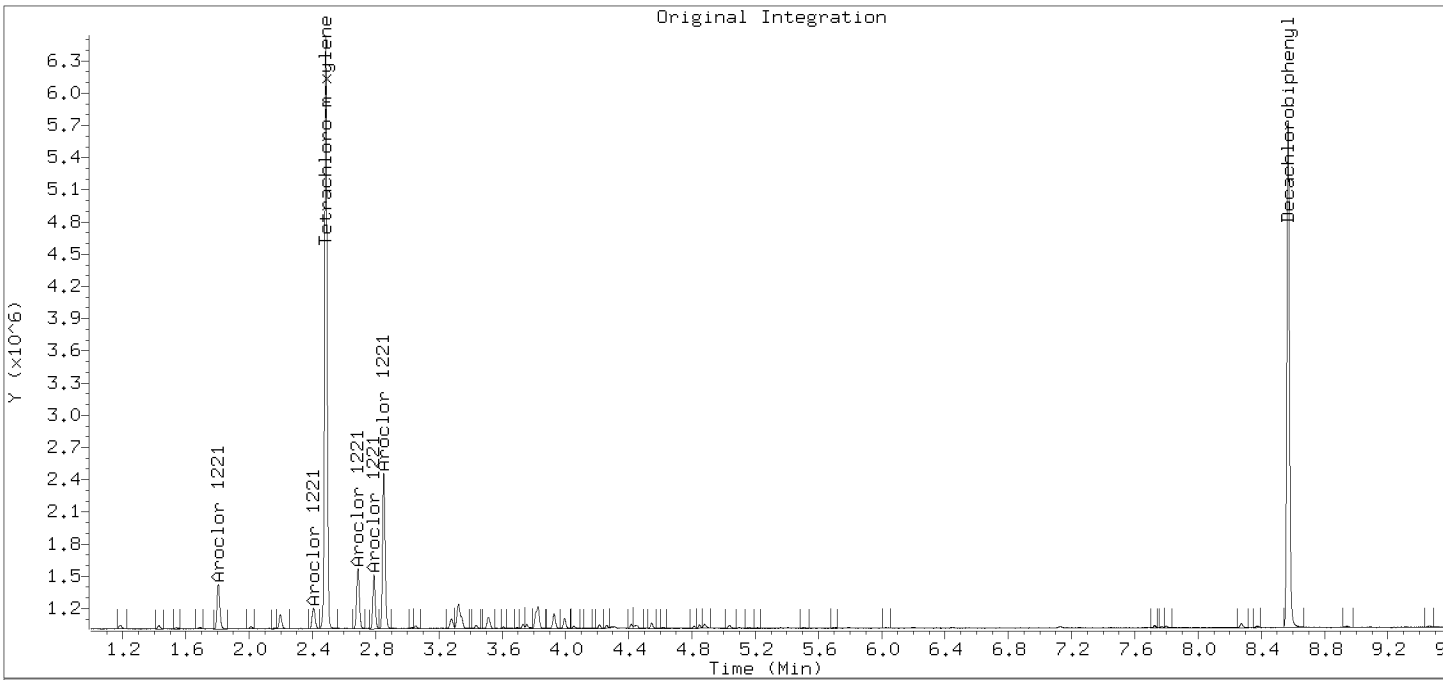
Operator: BLM

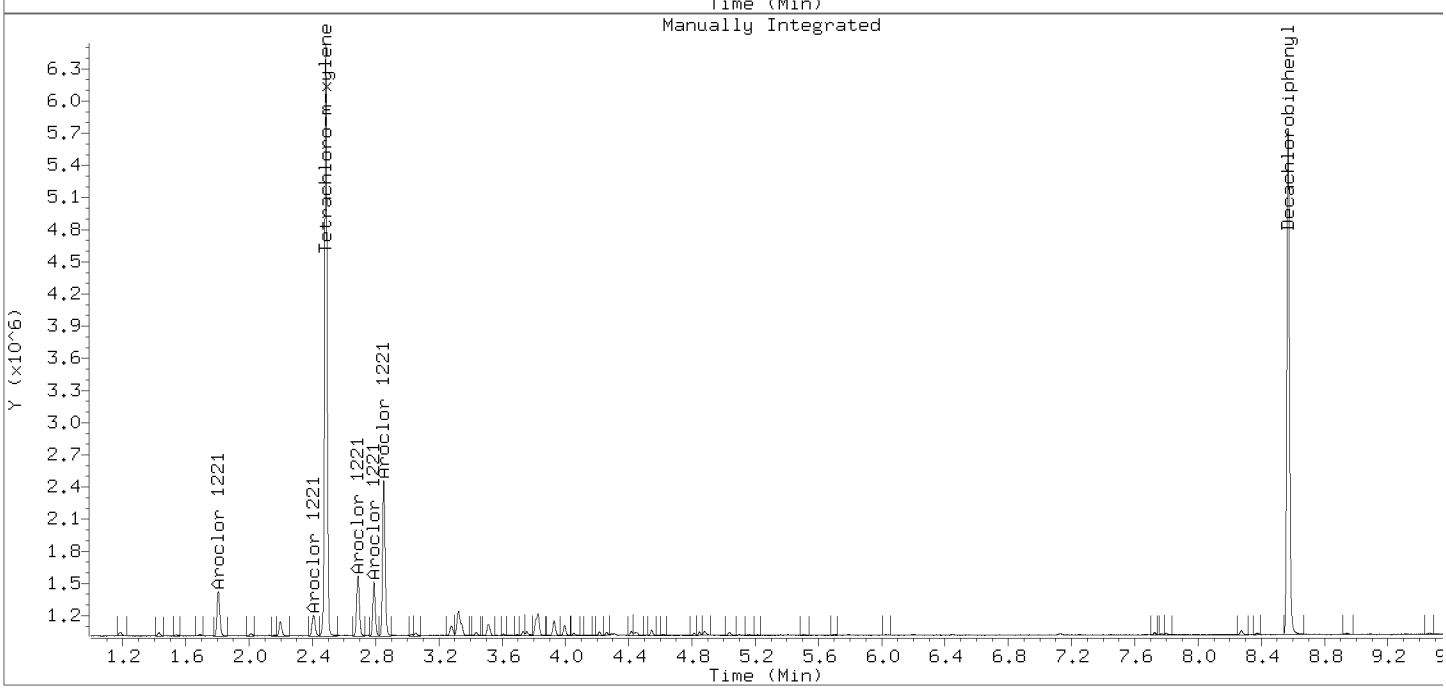
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b/041918008.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 19-APR-2018 15:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	517263	518371	BA
Aroclor 1221	517263	518371	BA
Aroclor 1221	517263	518371	BA
Aroclor 1221	517263	518371	BA
Aroclor 1221	517263	518371	BA
Tetrachloro-m-xylene	6015384	6032791	BA
Decachlorobiphenyl	5492793	5492793	

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.: 40157932

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 1674422

Date Analyzed: 04/18/2018 14:33

Lab File ID: 041818.B\041818009.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\041818.b\041818009.D
Lab Smp Id: 1674422 Client Smp ID: MB
Inj Date : 18-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674422,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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
1.182	18389	17547	0.954	0.09		
1.535	11663	10471	0.898	0.05		
1.688	11572	9256	0.800	0.05		
2.010	16143	10812	0.670	0.08		
2.201	31421	20221	0.644	0.15		
2.485	9542116	9041790	0.948	48.28	$ 2 Tetrachloro-m-xylene	
2.787	17356	15752	0.908	0.08		
2.860	15341	10005	0.652	0.07		
3.026	10807	5907	0.547	0.05		
4.244	16262	10414	0.640	0.08		
6.352	9791	6952	0.710	0.04		
6.942	11097	6655	0.600	0.05		
7.005	9663	6644	0.688	0.04		
7.119	25001	13889	0.556	0.12		
7.690	11470	8818	0.769	0.05		
7.727	48947	40998	0.838	0.24		
7.801	38935	31274	0.803	0.19		
8.274	94644	76654	0.810	0.47		
8.375	21112	14266	0.676	0.10		
8.571	9789361	8548557	0.873	49.66	$ 12 Decachlorobiphenyl	
8.944	12789	9431	0.737	0.06		
	19763883	17916313		100.000		

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818009.D
Lab Smp Id: 1674422 Client Smp ID: MB
Inj Date : 18-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674422,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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	9542116	0.07739	39			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

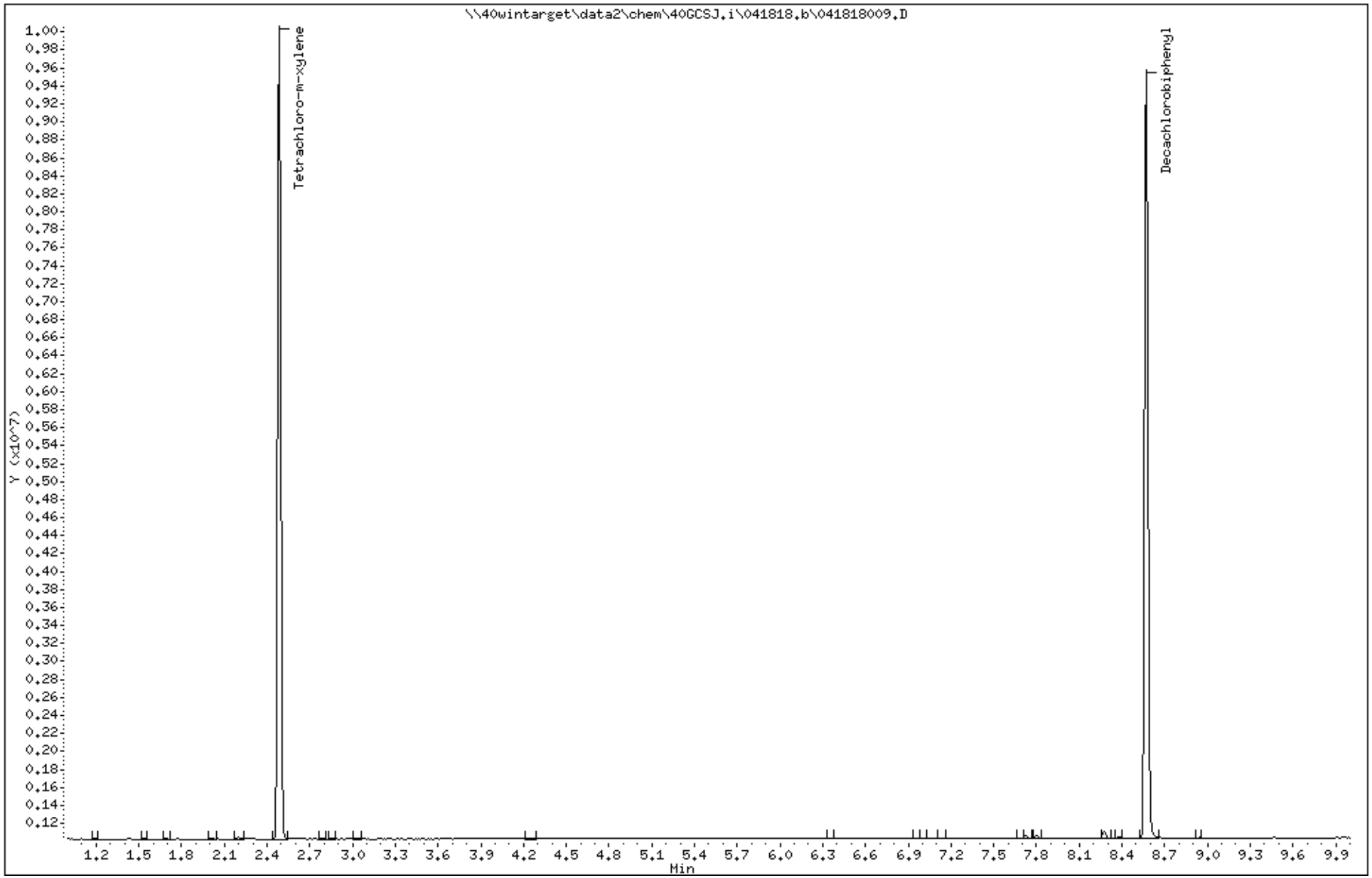
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9789361	0.08935	45			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818009.D
Date : 18-APR-2018 14:33
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1674422,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 14:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1674422

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	9542116	9542116	
Decachlorobiphenyl	9789361	9789361	

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.: 40157932

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 1674423

Date Analyzed: 04/18/2018 14:49

Lab File ID: 041818.B\041818010.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)	247	
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\041818.b\041818010.D
Lab Smp Id: 1674423 Client Smp ID: MBLCS
Inj Date : 18-APR-2018 14:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674423,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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
1.184	10489	9209	0.878	0.02		
1.432	9704	9648	0.994	0.02		
1.687	20423	10153	0.497	0.04		
1.802	12382	11501	0.929	0.02		
2.199	43320	24480	0.565	0.09		
2.404	116066	89568	0.772	0.24		
2.485	10308772	9607446	0.932	21.78	$ 2 Tetrachloro-m-xylene	
2.686	179916	143789	0.799	0.38		
2.789	216483	197700	0.913	0.45		
2.851	962120	876907	0.911	2.03		
3.055	120999	109893	0.908	0.25		
3.279	22356	16615	0.743	0.04		
3.317	1236466	1137166	0.920	2.61	3 Aroclor 1242	BA
3.344	708849	642749	0.907	1.49		
3.434	194002	178978	0.923	0.41		
3.514	1230724	882381	0.717	2.60	3 Aroclor 1242	BA
3.643	20561	13809	0.672	0.04		
3.695	34619	33818	0.977	0.07		
3.732	321948	312595	0.971	0.68		
3.756	209039	198597	0.950	0.44		
3.826	3549735	2029980	0.572	7.50	3 Aroclor 1242	BA
3.929	1524242	1263860	0.829	3.22	3 Aroclor 1242	BA
3.993	1007238	928887	0.922	2.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	273982	242489	0.885	0.57	
4.135	108857	98979	0.909	0.23	
4.215	825946	772936	0.936	1.74	
4.260	787726	730159	0.927	1.66	
4.292	319211	330354	1.035	0.67	
4.310	396895	357711	0.901	0.83	
4.372	28217	21525	0.763	0.05	
4.417	1102919	1013853	0.919	2.33	
4.451	832445	621979	0.747	1.75	
4.545	1382203	1247109	0.902	2.92	
4.618	347438	292440	0.842	0.73	
4.680	22544	18302	0.812	0.04	
4.728	68384	57184	0.836	0.14	
4.767	75768	69173	0.913	0.16	
4.812	639679	609629	0.953	1.35	
4.847	1126178	1045018	0.928	2.38	
4.878	1453149	1096605	0.755	3.07	
4.958	164298	124610	0.758	0.34	
5.037	1203148	1091208	0.907	2.54	
5.099	250638	187984	0.750	0.52	
5.162	281214	251988	0.896	0.59	
5.212	208471	177427	0.851	0.44	
5.284	17270	15598	0.903	0.03	
5.310	49671	39226	0.790	0.10	
5.362	181144	154832	0.855	0.38	
5.406	304250	251353	0.826	0.64	
5.445	183339	160239	0.874	0.38	
5.510	498170	379504	0.762	1.05	
5.605	153881	129590	0.842	0.32	
5.676	17907	13901	0.776	0.03	
5.718	29340	22202	0.757	0.06	
5.742	36067	32045	0.888	0.07	
5.792	319560	257867	0.807	0.67	
5.888	37582	29712	0.791	0.07	
5.996	12345	12287	0.995	0.02	
6.024	266980	229703	0.860	0.56	
6.053	57834	46478	0.804	0.12	
6.167	29351	18382	0.626	0.06	
6.228	23782	12447	0.523	0.05	
6.299	76286	61335	0.804	0.16	8 Aroclor 1260
6.330	19385	14161	0.731	0.04	
6.373	12283	12156	0.990	0.02	
6.505	10327	9619	0.931	0.02	
6.538	15298	15382	1.005	0.03	
6.720	11374	11157	0.981	0.02	
6.802	17807	13405	0.753	0.03	
7.005	22404	17273	0.771	0.04	8 Aroclor 1260
7.117	27236	14512	0.533	0.05	
7.249	15100	11378	0.753	0.03	8 Aroclor 1260
7.443	10922	10336	0.946	0.02	8 Aroclor 1260
7.688	13577	12459	0.918	0.02	
7.728	55970	42319	0.756	0.11	
7.800	41559	33124	0.797	0.08	
7.901	11221	9140	0.815	0.02	8 Aroclor 1260
8.274	95939	83332	0.869	0.20	
8.379	20514	15555	0.758	0.04	
8.571	10644564	9090286	0.854	22.85	$ 12 Decachlorobiphenyl

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.465	10561	8045	0.762	0.02	
	47310566	40478731		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818010.D
Lab Smp Id: 1674423 Client Smp ID: MBLCS
Inj Date : 18-APR-2018 14:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674423,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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	10308772	0.08361	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1236465	0.48810	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1230723	0.48838	240	0.00- 20.00	99.54	BA
3.825	3.827	-0.002	3549734	0.49881	250	0.00- 20.00	287.09	BA
3.928	3.929	-0.001	1524242	0.50114	250	0.00- 20.00	123.27	BA
3.993	3.995	-0.002	1007238	0.49188	240	0.00- 20.00	81.46	BA
Average of Peak Concentrations =					250			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test.

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10644563	0.09716		48		

QC Flag Legend

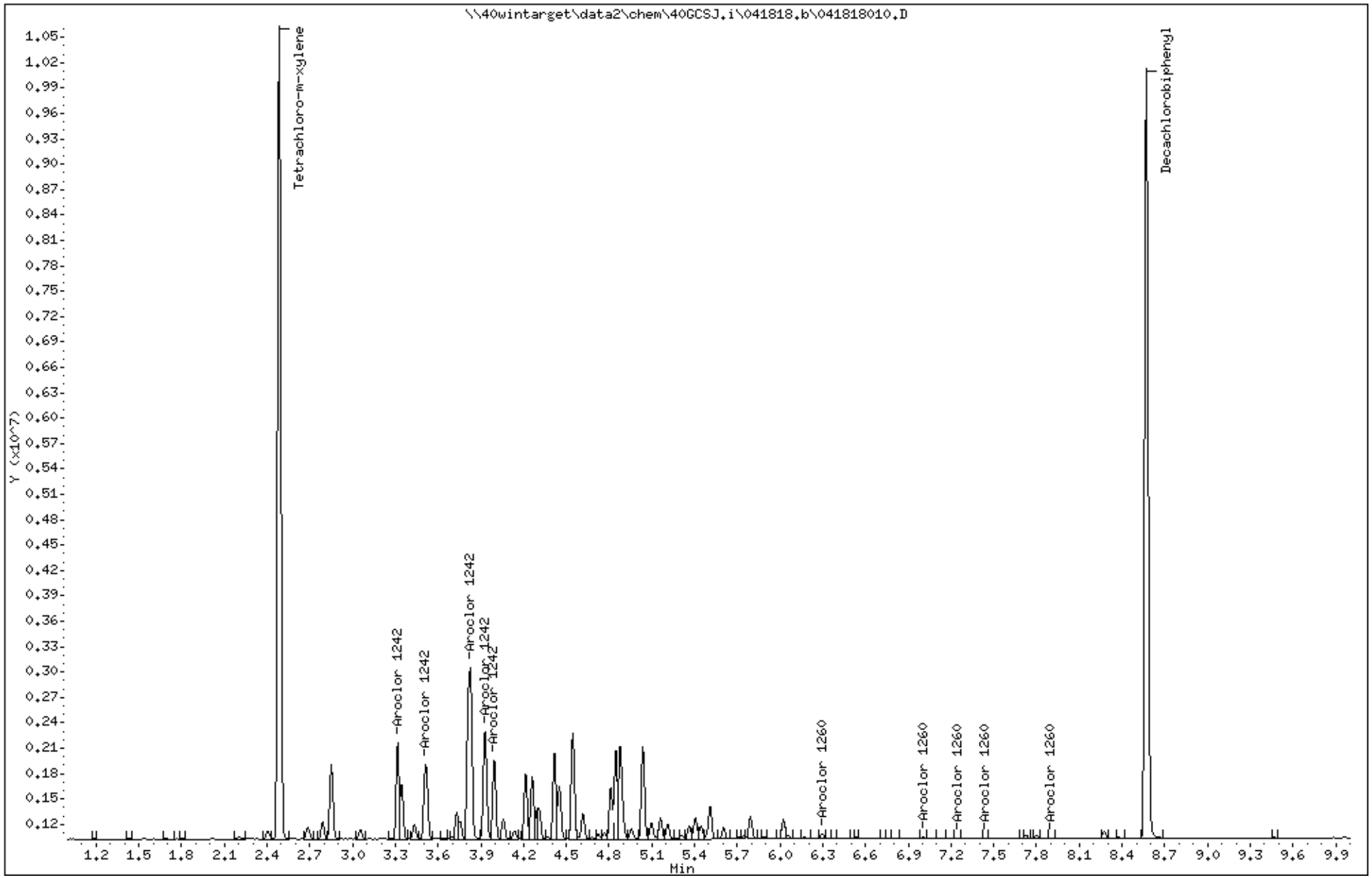
M - Compound response manually integrated.

Review Codes Legend

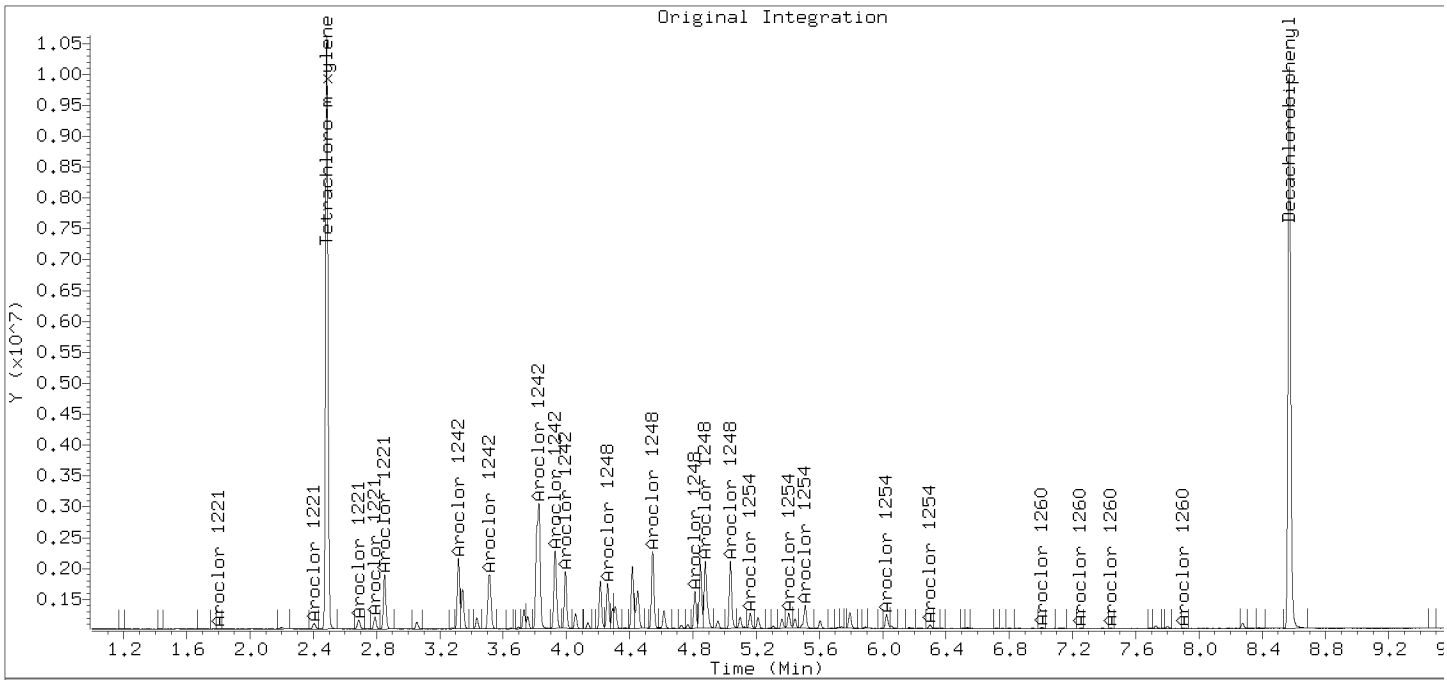
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

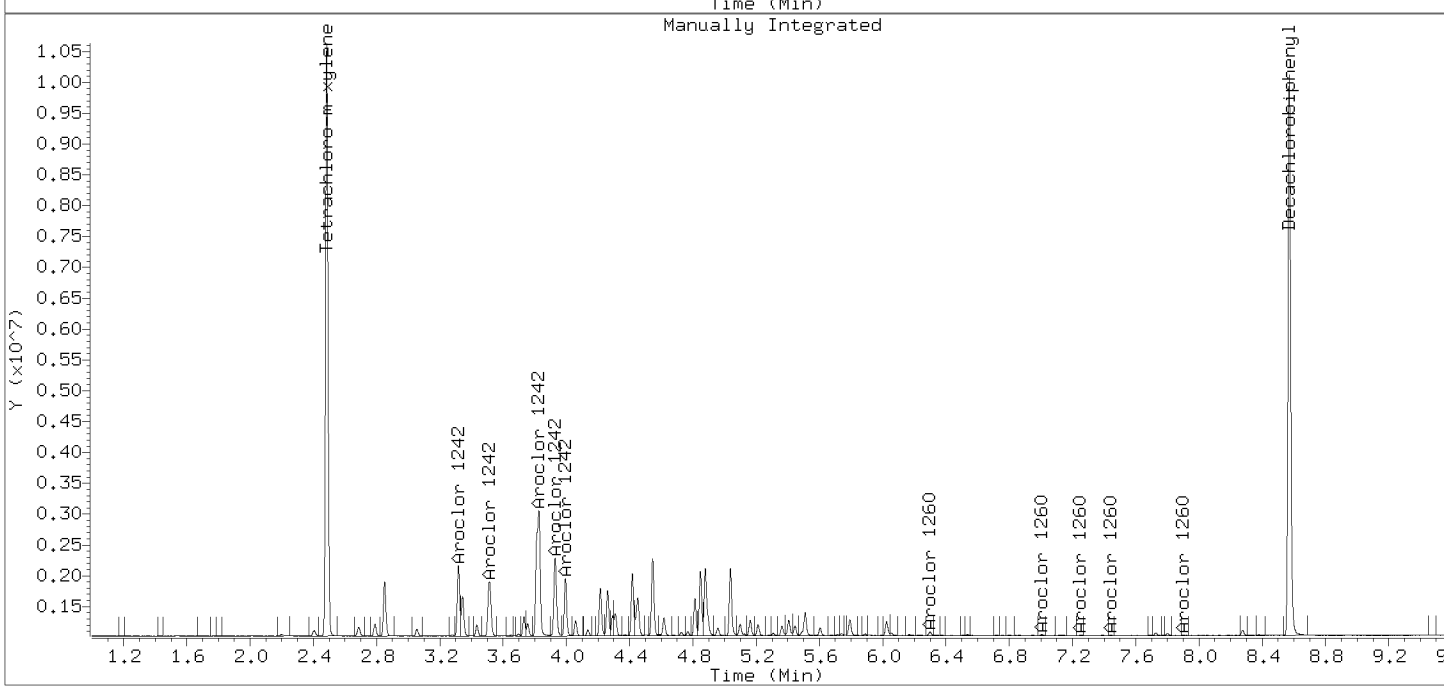
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818010.D
Date : 18-APR-2018 14:49
Client ID: MBLCS
Sample Info: 1674423,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 14:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1674423





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1232	962120	0	
Aroclor 1232	962120	0	
Aroclor 1232	962120	0	
Aroclor 1232	962120	0	

Aroclor 1232	962120	0	
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10308772	10308772	
Decachlorobiphenyl	10644563	10644563	

==========

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.: 40157932
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 1674425
Date Analyzed: 04/19/2018 14:40
Lab File ID: 041918.B\041918006.D
Initial wt/vol: 9.9796 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)	328	
12672-29-6	PCB-1248 (Aroclor 1248)	426	
11097-69-1	PCB-1254 (Aroclor 1254)	198	
11096-82-5	PCB-1260 (Aroclor 1260)	91.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918006.D
Lab Smp Id: 1674425 Client Smp ID: CS1-170620-01-YP-08
Inj Date : 19-APR-2018 14:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674425 x2,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: MS
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	9.980	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.532	11796	5714	0.484	0.02		
1.686	14728	11353	0.771	0.02		
1.770	10147	10502	1.035	0.01		
2.409	109764	82504	0.752	0.19		
2.485	5709699	5339381	0.935	10.69	$ 2 Tetrachloro-m-xylene	
2.688	101167	79127	0.782	0.17		
2.790	127195	117483	0.924	0.22		
2.851	534671	480161	0.898	0.94		
2.974	40052	24885	0.621	0.07		
3.019	33120	29339	0.886	0.05		
3.055	106427	94441	0.887	0.18		
3.276	18572	13544	0.729	0.03		
3.318	759459	713879	0.940	1.34	3 Aroclor 1242	BA
3.345	577742	519533	0.899	1.02		
3.434	229285	196873	0.859	0.40		
3.517	841048	595527	0.708	1.48	3 Aroclor 1242	BA
3.645	32310	23821	0.737	0.05		
3.692	21495	19546	0.909	0.03		
3.732	367552	359888	0.979	0.65		
3.755	202840	188439	0.929	0.35		
3.827	2808886	1556266	0.554	4.97	3 Aroclor 1242	BA
3.929	889456	718621	0.808	1.57	3 Aroclor 1242	BA
3.995	646355	617558	0.955	1.14	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	229675	200050	0.871	0.40	
4.136	80434	66430	0.826	0.14	
4.215	1465442	1335145	0.911	2.59	
4.261	1743395	1638776	0.940	3.08	6 Aroclor 1248
4.292	1770559	1354966	0.765	3.13	
4.418	1024772	940528	0.918	1.81	
4.452	812346	659851	0.812	1.43	
4.546	1590964	1444038	0.908	2.81	6 Aroclor 1248
4.589	75414	72440	0.961	0.13	
4.618	323261	293433	0.908	0.57	
4.681	94040	79190	0.842	0.16	
4.736	140098	100186	0.715	0.24	
4.768	191581	177656	0.927	0.33	
4.813	735578	703143	0.956	1.30	6 Aroclor 1248
4.848	979569	941122	0.961	1.73	
4.878	1960967	1071394	0.546	3.47	6 Aroclor 1248
4.956	451746	391693	0.867	0.79	
5.037	885112	802903	0.907	1.56	6 Aroclor 1248
5.100	823771	724084	0.879	1.45	
5.161	1214026	1070610	0.882	2.14	7 Aroclor 1254
5.212	1035367	897659	0.867	1.83	
5.283	141014	133135	0.944	0.24	
5.308	271328	229396	0.845	0.48	
5.363	383219	339450	0.886	0.67	
5.405	662967	596524	0.900	1.17	7 Aroclor 1254
5.450	1412176	1274459	0.902	2.49	
5.477	122705	126238	1.029	0.21	
5.509	1484276	1308252	0.881	2.62	7 Aroclor 1254
5.577	101619	85075	0.837	0.17	
5.603	209306	176407	0.843	0.37	
5.674	384392	355115	0.924	0.68	
5.710	245593	194052	0.790	0.43	
5.741	305155	233219	0.764	0.54	
5.788	1571919	1243633	0.791	2.78	
5.818	98032	108978	1.112	0.17	
5.884	196385	126825	0.646	0.34	
5.929	145251	124825	0.859	0.25	
5.992	462252	428662	0.927	0.81	
6.025	635053	562387	0.886	1.12	7 Aroclor 1254
6.056	1588314	1385585	0.872	2.81	
6.167	340513	205818	0.604	0.60	
6.241	302433	155114	0.513	0.53	
6.299	1816609	1506860	0.829	3.21	7 Aroclor 1254
6.332	179550	161929	0.902	0.31	
6.372	76657	59550	0.777	0.13	
6.431	231363	180159	0.779	0.40	
6.509	742879	664683	0.895	1.31	
6.535	338341	320624	0.948	0.59	
6.560	248537	224148	0.902	0.43	
6.603	70384	51270	0.728	0.12	
6.661	50338	42568	0.846	0.08	
6.718	229693	198955	0.866	0.40	
6.757	283431	239745	0.846	0.50	
6.800	240527	208690	0.868	0.42	
6.838	138558	112042	0.809	0.24	
6.909	35862	34877	0.973	0.06	
6.941	264402	243099	0.919	0.46	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.004	817721	745015	0.911	1.44	8 Aroclor 1260
7.034	88649	60299	0.680	0.15	
7.120	32014	21109	0.659	0.05	
7.250	353043	315929	0.895	0.62	8 Aroclor 1260
7.282	121632	88417	0.727	0.21	
7.340	22404	18975	0.847	0.03	
7.366	18278	24024	1.314	0.03	
7.388	325341	286896	0.882	0.57	
7.441	370893	305914	0.825	0.65	8 Aroclor 1260
7.493	34682	18927	0.546	0.06	
7.551	21864	17875	0.818	0.03	
7.581	10060	9845	0.979	0.01	
7.689	80630	72861	0.904	0.14	
7.726	124067	106393	0.858	0.21	
7.763	27021	19385	0.717	0.04	
7.809	114890	71516	0.622	0.20	
7.862	15522	13636	0.878	0.02	
7.898	221986	192307	0.866	0.39	8 Aroclor 1260
7.959	32384	20830	0.643	0.05	
8.047	42699	32023	0.750	0.07	
8.274	256660	231907	0.904	0.45	
8.374	33920	15513	0.457	0.06	
8.448	12220	9183	0.752	0.02	
8.570	5365664	4609424	0.859	9.49	$ 12 Decachlorobiphenyl
8.722	32742	26372	0.805	0.05	
9.168	53779	42924	0.798	0.09	
9.462	18713	11047	0.590	0.03	
9.959	14244	9829	0.690	0.02	
	56496639	47804405		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918006.D
Lab Smp Id: 1674425 Client Smp ID: CS1-170620-01-YP-08
Inj Date : 19-APR-2018 14:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674425 x2,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: MS
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	9.980	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	5709699	0.04631	46			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	759458	0.29980	300	0.00- 20.00	100.00(RM)	BA
3.516	3.513	0.003	841048	0.33374	330	0.00- 20.00	110.74	BA
3.826	3.827	-0.001	2808886	0.39470	400	0.00- 20.00	369.85	BA
3.928	3.929	-0.001	889455	0.29244	290	0.00- 20.00	117.12	BA
3.994	3.995	-0.001	646354	0.31564	320	0.00- 20.00	85.11	BA
Average of Peak Concentrations =					330			

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	1743394	0.74409	740	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1590963	0.38334	380	0.00- 20.00	91.26	BA
4.812	4.812	0.000	735577	0.36234	360	0.00- 20.00	42.19	BA
4.877	4.879	-0.002	1960967	0.38928	390	0.00- 20.00	112.48	BA
5.036	5.038	-0.002	885111	0.24665	250	0.00- 20.00	50.77	BA
Average of Peak Concentrations =					430			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1214025	0.23189	230	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	662967	0.15414	150	0.00- 20.00	54.61	BA
5.508	5.510	-0.002	1484276	0.19112	190	0.00- 20.00	122.26	BA
6.024	6.027	-0.003	635052	0.13041	130	0.00- 20.00	52.31	BA
6.299	6.299	0.000	1816608	0.27917	280	0.00- 20.00	149.64	BA
Average of Peak Concentrations =					200			
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	817720	0.08165	82	0.00- 20.00	45.01	BA
7.249	7.251	-0.002	353043	0.07386	74	0.00- 20.00	19.43	BA
7.440	7.443	-0.003	370892	0.12723	130	0.00- 20.00	20.42	BA
7.897	7.901	-0.004	221986	0.08413	84	0.00- 20.00	12.22	BA
Average of Peak Concentrations =					92			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5365664	0.04897	49			

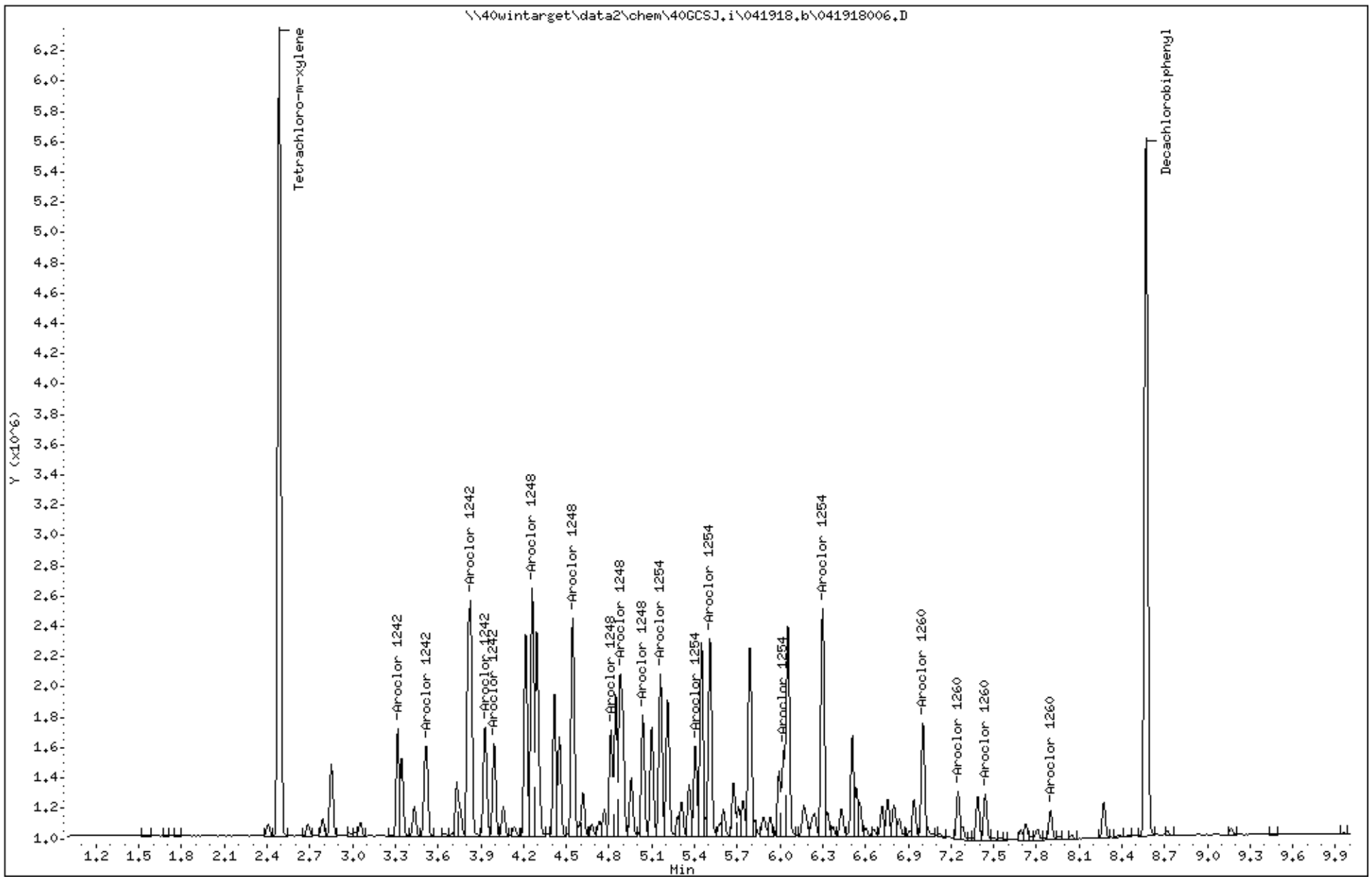
QC Flag Legend

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

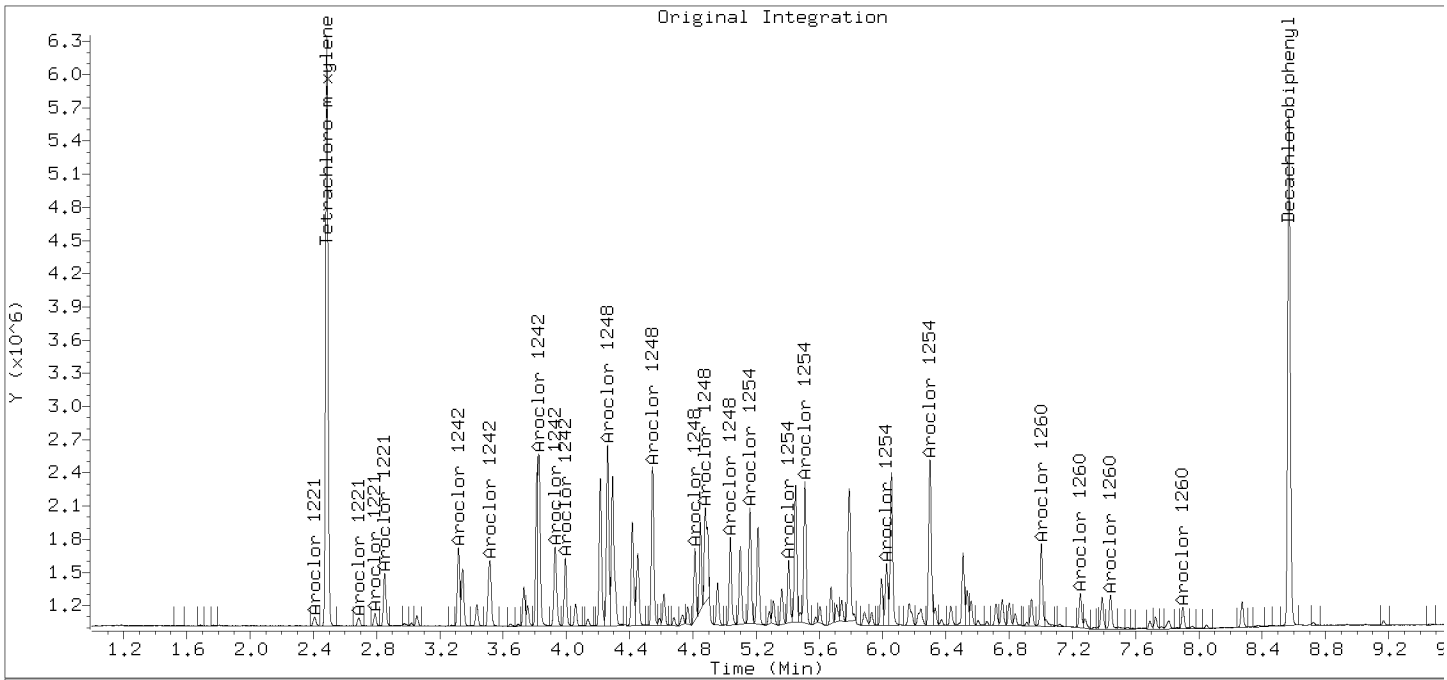
Review Codes Legend

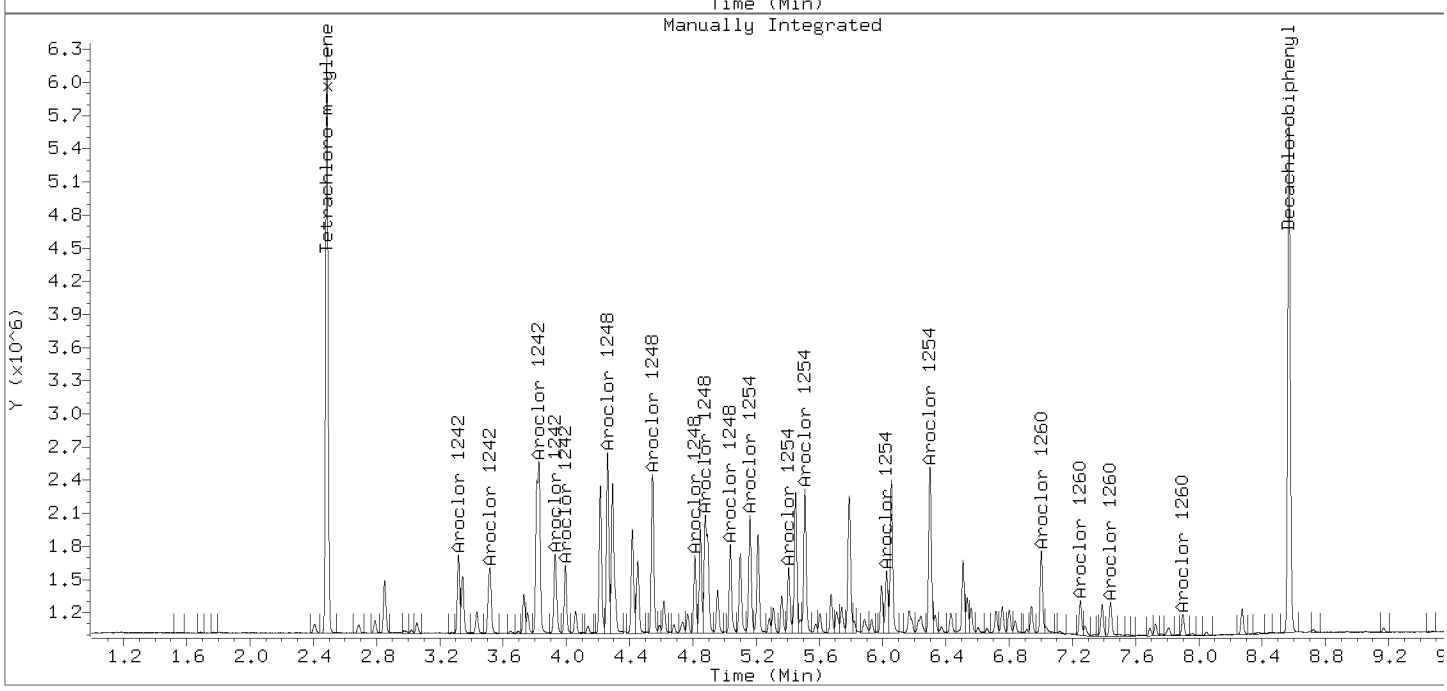
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918006.D
Date : 19-APR-2018 14:40
Client ID: CS1-170620-01-YP-08
Instrument: 40GCSJ.i
Sample Info: 1674425 x2,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b/041918006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 19-APR-2018 14:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1674425





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	752275	0	
Aroclor 1016	752275	0	
Aroclor 1016	752275	0	
Aroclor 1016	752275	0	
Aroclor 1016	752275	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	522851	0	
Aroclor 1232	522851	0	
Aroclor 1232	522851	0	
Aroclor 1232	522851	0	

Aroclor 1232	522851	0	
Aroclor 1242	752275	759458	BA
Aroclor 1242	752275	759458	BA
Aroclor 1242	752275	759458	BA
Aroclor 1242	752275	759458	BA
Aroclor 1242	752275	759458	BA
Aroclor 1248	1730666	1743394	BA
Aroclor 1248	1730666	1743394	BA
Aroclor 1248	1730666	1743394	BA
Aroclor 1248	1730666	1743394	BA
Aroclor 1248	1730666	1743394	BA
Aroclor 1254	1136734	1214025	BA
Aroclor 1254	1136734	1214025	BA
Aroclor 1254	1136734	1214025	BA
Aroclor 1254	1136734	1214025	BA
Aroclor 1254	1136734	1214025	BA
Aroclor 1260	1797167	0	BA
Aroclor 1260	1797167	0	BA
Aroclor 1260	1797167	0	BA
Aroclor 1260	1797167	0	BA
Aroclor 1260	1797167	0	BA
Tetrachloro-m-xylene	5709699	5709699	
Decachlorobiphenyl	5365664	5365664	

==========

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.: 40157932

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 1674426

Date Analyzed: 04/19/2018 14:55

Lab File ID: 041918.B\041918007.D

Initial wt/vol: 10.0336 Final wt/vol: 5 mL Dilution: 2

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	328	
11097-69-1	PCB-1254 (Aroclor 1254)	212	
11096-82-5	PCB-1260 (Aroclor 1260)	108	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918007.D
Lab Smp Id: 1674426 Client Smp ID: CS1-170620-01-YP-08
Inj Date : 19-APR-2018 14:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674426 x2,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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	10.034	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	64300	51244	0.797	0.12		
2.485	6036463	5556713	0.921	12.26	$ 2 Tetrachloro-m-xylene	
2.790	26262	19311	0.735	0.05		
2.849	40278	32252	0.801	0.07		
2.976	49046	26428	0.539	0.09		
3.020	36998	31349	0.847	0.07		
3.056	57523	47553	0.827	0.11		
3.317	151500	148540	0.980	0.29		
3.345	263443	245801	0.933	0.51		
3.433	143783	133898	0.931	0.28		
3.519	249391	224360	0.900	0.48		
3.645	21816	20877	0.957	0.04		
3.732	262306	251800	0.960	0.51		
3.756	118077	112141	0.950	0.23		
3.815	646634	685619	1.060	1.26		
3.826	643436	686958	1.068	1.25		
3.937	140173	92637	0.661	0.27		
3.993	174186	164867	0.946	0.33		
4.058	106314	93415	0.879	0.20		
4.135	23982	20708	0.863	0.04		
4.215	1318708	1196001	0.907	2.57		
4.262	1691078	1607884	0.951	3.29	6 Aroclor 1248	CO
4.292	1707143	1423518	0.834	3.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.348	26920	19429	0.722	0.05	
4.417	578989	544070	0.940	1.12	
4.452	483567	437975	0.906	0.94	
4.545	1130222	1054861	0.933	2.20	6 Aroclor 1248
4.589	84774	77306	0.912	0.16	
4.617	198179	178285	0.900	0.38	
4.680	102037	84528	0.828	0.19	
4.737	130812	105367	0.805	0.25	
4.769	187202	172713	0.923	0.36	
4.813	518367	486581	0.939	1.01	6 Aroclor 1248
4.848	508185	481477	0.947	0.99	
4.894	1549343	870257	0.562	3.02	6 Aroclor 1248
4.957	461874	397461	0.861	0.90	
5.037	321066	290257	0.904	0.62	6 Aroclor 1248
5.058	30027	47496	1.582	0.05	
5.100	863318	740629	0.858	1.68	
5.161	1326303	1157497	0.873	2.58	7 Aroclor 1254
5.212	1139158	993794	0.872	2.22	
5.284	167012	148675	0.890	0.32	
5.310	297437	255575	0.859	0.58	
5.363	367895	331615	0.901	0.71	
5.406	639696	584492	0.914	1.24	7 Aroclor 1254
5.450	1626895	1481368	0.911	3.17	
5.478	131494	139116	1.058	0.25	
5.509	1545300	1349982	0.874	3.01	7 Aroclor 1254
5.576	112044	101279	0.904	0.21	
5.602	169559	136276	0.804	0.33	
5.675	461238	431476	0.935	0.89	
5.709	284907	224708	0.789	0.55	
5.742	340073	259189	0.762	0.66	
5.789	1745381	1403713	0.804	3.40	
5.820	153971	131186	0.852	0.30	
5.884	215064	142038	0.660	0.41	
5.930	176813	148034	0.837	0.34	
5.993	575373	527109	0.916	1.12	
6.025	623637	542870	0.870	1.21	7 Aroclor 1254
6.055	1898283	1623625	0.855	3.70	
6.168	406754	246135	0.605	0.79	
6.242	358162	189046	0.528	0.69	
6.298	2172431	1792669	0.825	4.23	7 Aroclor 1254
6.332	220950	190605	0.863	0.43	
6.372	87154	69980	0.803	0.17	
6.431	276214	220162	0.797	0.53	
6.484	24431	31051	1.271	0.04	
6.509	863460	795582	0.921	1.68	
6.535	408042	374643	0.918	0.79	
6.560	303318	267335	0.881	0.59	
6.603	77399	57716	0.746	0.15	
6.660	67714	52027	0.768	0.13	
6.718	271769	237601	0.874	0.53	
6.756	341667	279600	0.818	0.66	
6.801	287881	249308	0.866	0.56	
6.839	170899	132235	0.774	0.33	
6.912	41684	42443	1.018	0.08	
6.941	324095	296349	0.914	0.63	
7.003	993800	945089	0.951	1.93	8 Aroclor 1260
7.034	114030	74233	0.651	0.22	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.099	7549	11884	1.574	0.01	
7.120	33470	24102	0.720	0.06	
7.250	422648	380206	0.900	0.82	8 Aroclor 1260
7.278	142099	105658	0.744	0.27	
7.335	22192	18428	0.830	0.04	
7.367	18534	23882	1.289	0.03	
7.388	379489	342075	0.901	0.74	
7.441	430633	369952	0.859	0.84	8 Aroclor 1260
7.490	43936	19871	0.452	0.08	
7.550	19653	20911	1.064	0.03	
7.689	84637	80741	0.954	0.16	
7.726	142297	126764	0.891	0.27	
7.761	30385	22467	0.739	0.05	
7.809	133169	86472	0.649	0.25	
7.860	21449	16346	0.762	0.04	
7.898	261124	231867	0.888	0.50	8 Aroclor 1260
7.959	43307	26413	0.610	0.08	
8.047	44596	37345	0.837	0.08	
8.273	299270	269330	0.900	0.58	
8.379	17159	12279	0.716	0.03	
8.569	5595903	4798721	0.858	10.91	$ 12 Decachlorobiphenyl
8.639	13687	12136	0.887	0.02	
8.723	45962	36402	0.792	0.08	
9.168	53560	47385	0.885	0.10	
	51263818	44641629		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918007.D
Lab Smp Id: 1674426 Client Smp ID: CS1-170620-01-YP-08
Inj Date : 19-APR-2018 14:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674426 x2,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041918.b\pcba030618.m
Meth Date : 20-Apr-2018 07:05 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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	10.034	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			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6036463	0.04896	49			
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	1691077	0.72177	720	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1130222	0.27232	270	0.00- 20.00	66.83	CO
4.813	4.812	0.001	518367	0.25534	250	0.00- 20.00	30.65	CO
4.893	4.879	0.014	1549342	0.30757	310	0.00- 20.00	91.62	CO
5.037	5.038	-0.001	321065	0.08947	89	0.00- 20.00	18.99	CO
Average of Peak Concentrations =					330			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1326302	0.25334	250	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	639696	0.14873	150	0.00- 20.00	48.23	BA
5.508	5.510	-0.002	1545299	0.19898	200	0.00- 20.00	116.51	BA
6.025	6.027	-0.002	623636	0.12806	130	0.00- 20.00	47.02	BA
6.298	6.299	-0.001	2172431	0.33386	330	0.00- 20.00	163.80	BA
Average of Peak Concentrations =					210			
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	993799	0.09924	99	0.00- 20.00	45.75	BA
7.249	7.251	-0.002	422647	0.08842	88	0.00- 20.00	19.46	BA
7.440	7.443	-0.003	430632	0.14772	150	0.00- 20.00	19.82	BA
7.898	7.901	-0.003	261123	0.09896	99	0.00- 20.00	12.02	BA
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5595902	0.05108	51			

QC Flag Legend

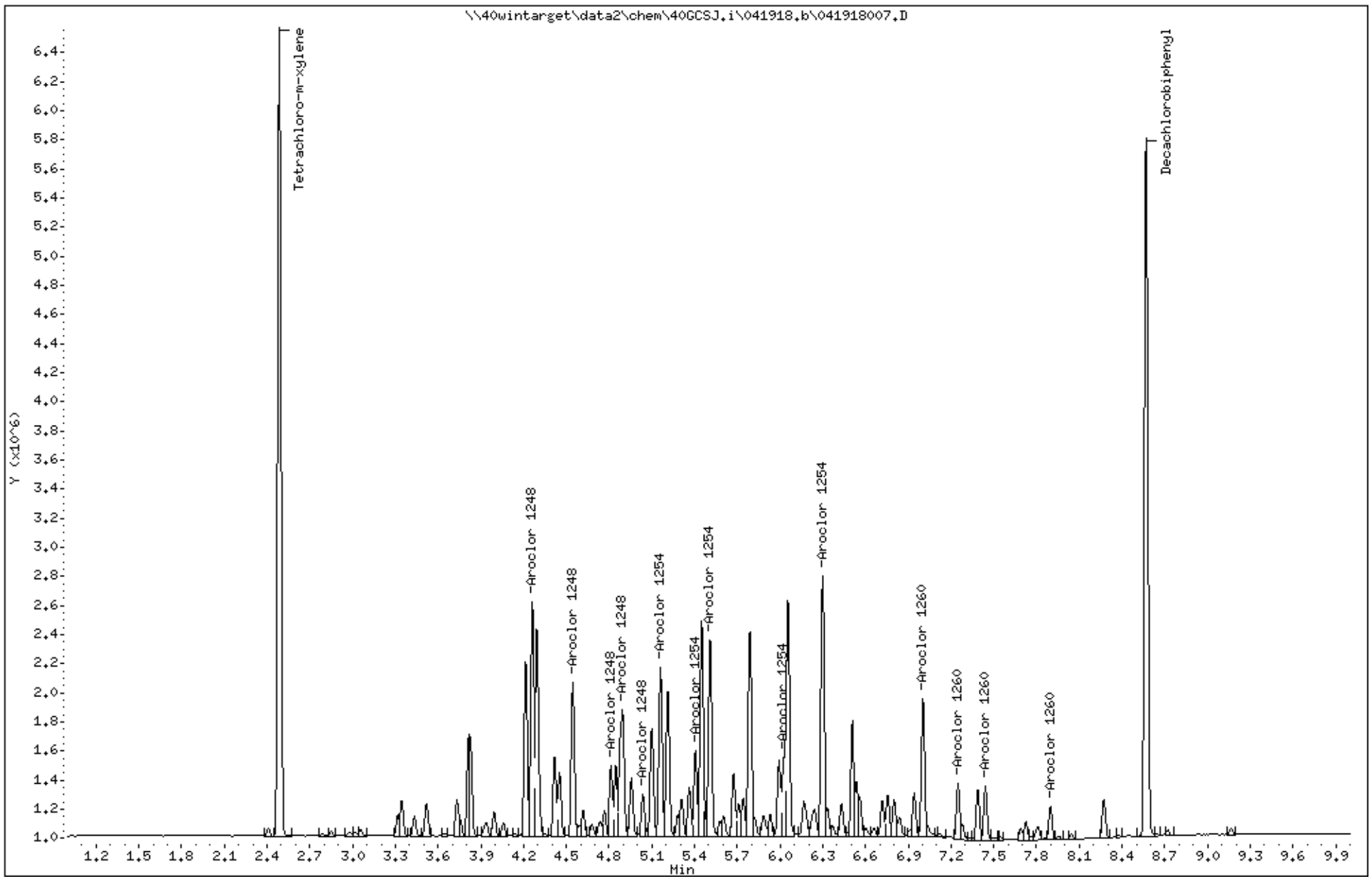
M - Compound response manually integrated.

Review Codes Legend

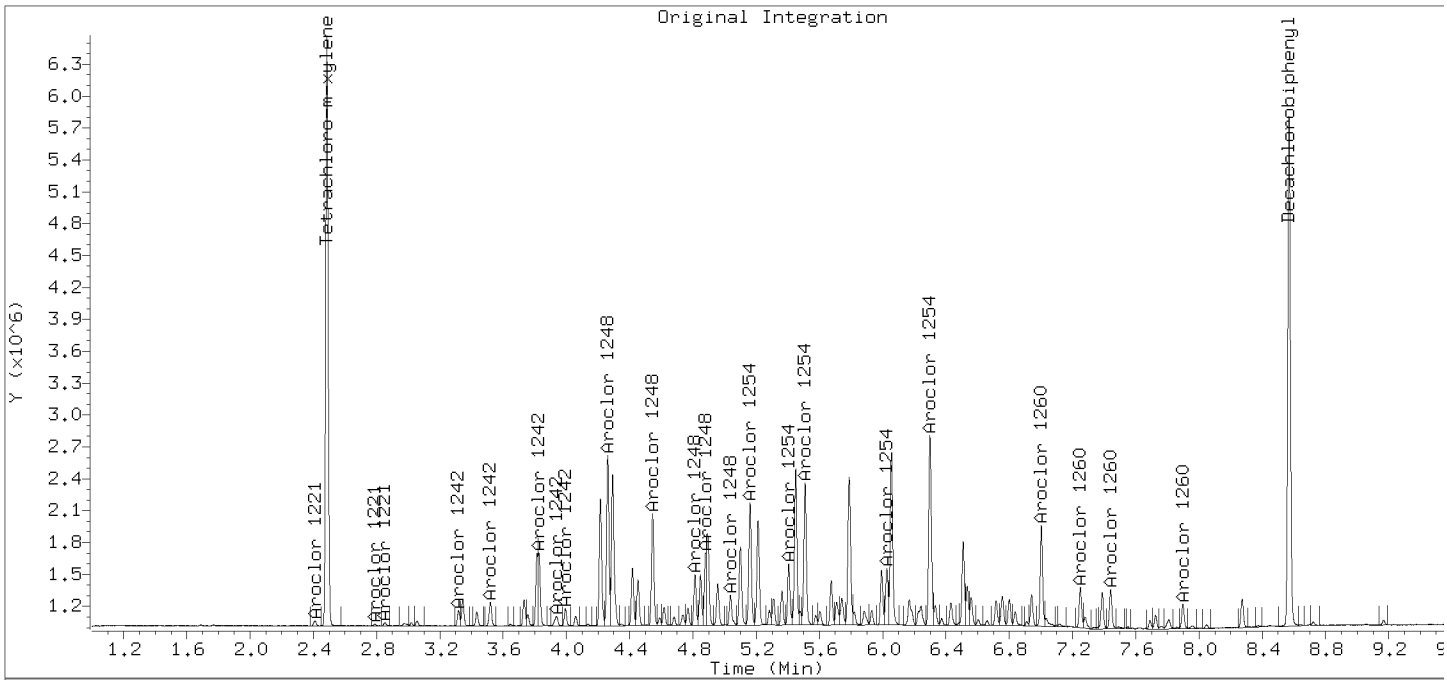
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

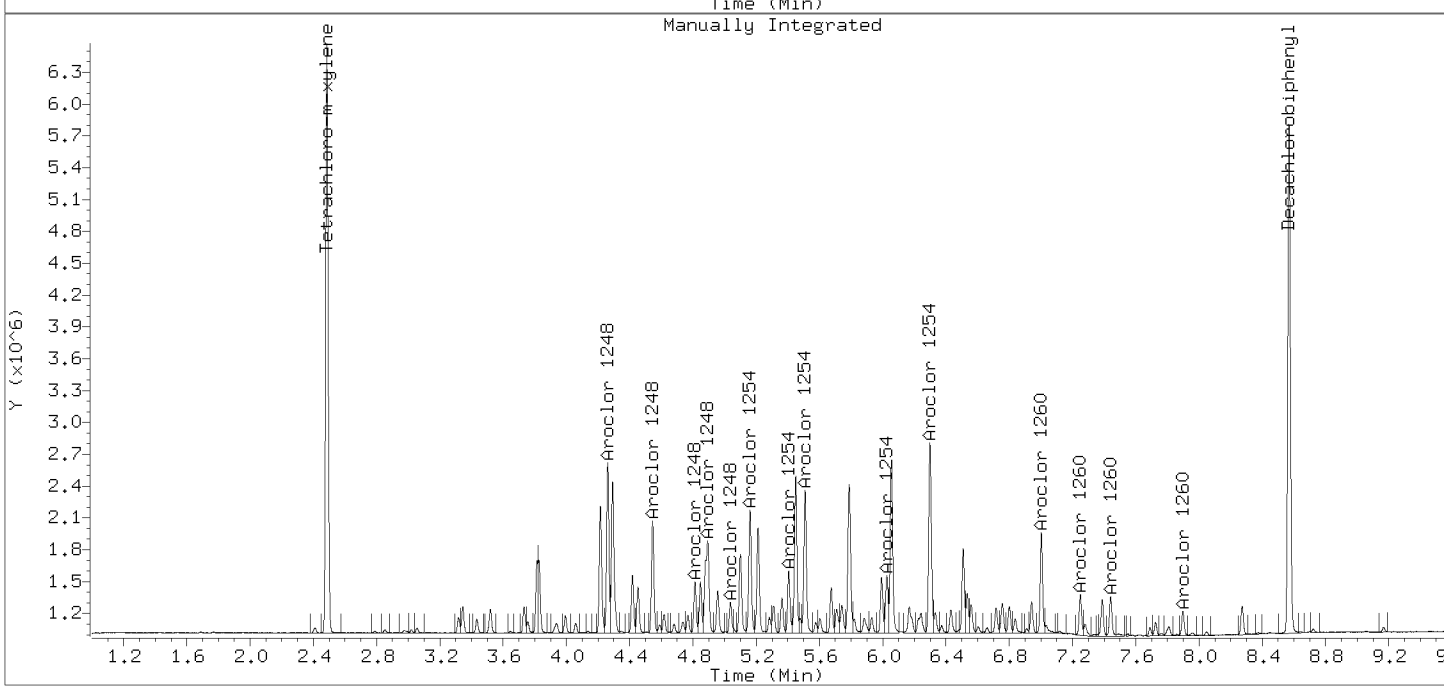
Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b\041918007.D
Date : 19-APR-2018 14:55
Client ID: CS1-170620-01-YP-08
Sample Info: 1674426 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041918.b/041918007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 19-APR-2018 14:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1674426





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	151499	0	
Aroclor 1016	151499	0	
Aroclor 1016	151499	0	
Aroclor 1016	151499	0	
Aroclor 1016	151499	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	40277	0	
Aroclor 1232	40277	0	
Aroclor 1232	40277	0	
Aroclor 1232	40277	0	

Aroclor 1232	40277	0	
Aroclor 1242	151499	0	
Aroclor 1242	151499	0	
Aroclor 1242	151499	0	
Aroclor 1242	151499	0	
Aroclor 1242	151499	0	
Aroclor 1248	1682254	1691077	CO
Aroclor 1248	1682254	1691077	CO
Aroclor 1248	1682254	1691077	CO
Aroclor 1248	1682254	1691077	CO
Aroclor 1248	1682254	1691077	CO
Aroclor 1254	1296739	1326302	BA
Aroclor 1254	1296739	1326302	BA
Aroclor 1254	1296739	1326302	BA
Aroclor 1254	1296739	1326302	BA
Aroclor 1254	1296739	1326302	BA
Aroclor 1260	2151297	0	BA
Aroclor 1260	2151297	0	BA
Aroclor 1260	2151297	0	BA
Aroclor 1260	2151297	0	BA
Aroclor 1260	2151297	0	BA
Tetrachloro-m-xylene	6036463	6036463	
Decachlorobiphenyl	5595902	5595902	

==========

Prep Log Report

Batch Information: OEXT 286202 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/17/2018 07:09:54:652
Spiked By	AMC	Spiked By Date/Time	04/17/2018 07:09:55	Witnessed By	ETB	Witnessed By Date/Time	04/17/2018 07:09:56:484
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	194128	Hexane	192551	Sodium Sulfate	193359	Florisil	186910
3620B Date/Initials	4/18/18 AMC	H2SO4 - Conc.	193892	Acid 3665A Date/Initials	4/18/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/20/2018 06:58	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	**1674422**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1674423**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157489007**	9.9754	5	3		193230 (.25)	
8082A TNYP	PS	**40157830016**	9.9901	5	3		193230 (.25)	
8082A TNYP	DUP	**1674424**	9.9935	5	3		193230 (.25)	
8082A TNYP	PS	**40157830017**	10.0089	5	3		193230 (.25)	
8082A TNYP	PS	**40157830018**	10.0076	5	3		193230 (.25)	
8082A TNYP	PS	**40157932001**	9.9866	5	3		193230 (.25)	
8082A TNYP	PS	**40157932002**	9.9983	5	3		193230 (.25)	
8082A TNYP	RQS	**40157932003**	10.0109	5	3		193230 (.25)	
8082A TNYP	MS	**1674425**	9.9796	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1674426**	10.0336	5	3		193230 (.25)	
8082A TNYP	PS	**40157932004**	10.0083	5	3		193230 (.25)	
8082A TNYP	PS	**40157932005**	10.0271	5	3		193230 (.25)	
8082A TNYP	PS	**40157932006**	10.0034	5	3		193230 (.25)	
8082A TNYP	PS	**40157932007**	9.9623	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	**40157932008**	9.9929	5	3		193230 (.25)	
8082A TNYP	PS	**40157932009**	9.9828	5	3		193230 (.25)	
8082A TNYP	PS	**40157932010**	9.9635	5	3		193230 (.25)	
8082A TNYP	PS	**40157932011**	10.0169	5	3		193230 (.25)	

Standard Notes:

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

```
   Sequence Name: C:\msdchem\1\sequence\041818.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\041818\
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  40167413-006
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  40167456-001
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40167524-009
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40167524-010
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40167498-030
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40167498-031
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40167498-032
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40167522-007
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40167522-008
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  HEXANE
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  1674422MB
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  1674423LCS
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40157489-007 x5
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40157830-016 x3
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  1674424DUP x3
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40157830-017 x4
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40157830-018 x5
     Datafile           --------

   Last Modified: Wed Apr 18 10:56:45 2018                Page:  1
```

GE BIOTA

BLM 4/19/18

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Read and Understood By

Signed: [illegible] Date: 4/19/18

Signed: Jim O'Conn Date: 4-19-18

```
      Method                SCREEN2014
20) Sample          20  40157932-001
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40157932-002
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  40157932-003
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  1674425MS
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  1674426DUP
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25  40157932-004
      Datafile              --------
      Method                SCREEN2014
26) Sample          26  40157932-005
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27  40157932-006
      Datafile              --------
      Method                SCREEN2014
28) Sample          28  40157932-007
      Datafile              --------
      Method                SCREEN2014
29) RearSamp        29  40157932-008
      Datafile              --------
      Method                SCREEN2014
30) Sample          30  40157932-009
      Datafile              --------
      Method                SCREEN2014
31) RearSamp        31  40157932-010
      Datafile              --------
      Method                SCREEN2014
32) Sample          32  40157932-011
      Datafile              --------
      Method                SCREEN2014
```

Last Modified: Wed Apr 18 10:56:45 2018 Page: 2

BLM 4/19/18

Continued on Page

Read and Understood By

Signed: [signature] Date: 4/19/18

Signed: Jim O'Conn Date: 4-19-18

```
   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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BLM 3/7/18

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Read and Understood By

Bryan Mayl — Signed — 3/7/18 — Date

Signed — 3/7/18 — Date

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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  2
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Continued on Page 6

Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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BLM 3/7/18

Continued on Page 7

Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/7/18 Date

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

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```

BLM 3/7/18

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Read and Understood By

Beryl Meyl — Signed — 3/7/18 Date

Signed — 3/7/18 Date

```
Sequence Name: C:\msdchem\1\sequence\041818.s
      Comment:
     Operator: BLM
    Data Path: C:\MSDCHEM\1\DATA\041818\
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		041818001
Method		GEBIOTA2017
2) Sample	2	HEXANE
Datafile		041818002
Method		GEBIOTA2017
3) Sample	3	HEXANE
Datafile		041818003
Method		GEBIOTA2017
4) Sample	4	1232-CCV,185539:1,17498,AR123 ok
Datafile		041818004
Method		GEBIOTA2017
5) Sample	5	1232-CCV,185539:1,17498,AR123 ok
Datafile		041818005
Method		GEBIOTA2017
6) Sample	6	40157492020 x2,,17685,BIOTA
Datafile		041818006
Method		GEBIOTA2017
7) Sample	7	40157698003 x3,,17685,BIOTA
Datafile		041818007
Method		GEBIOTA2017
8) Sample	8	40157830019 x2,,17685,BIOTA
Datafile		041818008
Method		GEBIOTA2017
9) Sample	9	1674422,,17695,BIOTA
Datafile		041818009
Method		GEBIOTA2017
10) Sample	10	1674423,,17695,BIOTA
Datafile		041818010
Method		GEBIOTA2017
11) Sample	11	40157489007 x5,,17695,BIOTA
Datafile		041818011
Method		GEBIOTA2017
12) Sample	12	40157830016 x3,,17695,BIOTA
Datafile		041818012
Method		GEBIOTA2017
13) Sample	13	1674424 x3,,17695,BIOTA
Datafile		041818013
Method		GEBIOTA2017
14) Sample	14	40157830017 x4,,17695,BIOTA
Datafile		041818014
Method		GEBIOTA2017
15) Sample	15	40157830018 x5,,17695,BIOTA
Datafile		041818015
Method		GEBIOTA2017
16) Sample	16	1242-CCV,185544:1,17498,AR124 ok
Datafile		041818016
Method		GEBIOTA2017
17) Sample	17	1242-CCV,185544:1,17498,AR124 ok
Datafile		041818017
Method		GEBIOTA2017
18) Sample	18	40157932001,,17695,BIOTA
Datafile		041818018
Method		GEBIOTA2017
19) Sample	19	40157932002,,17695,BIOTA
Datafile		041818019

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Read and Understood By

Bryan Mayell — Signed — 4/19/18 — Date

Jim O'Connor — Signed — 4-19-18 — Date

```
      Method                GEBIOTA2017
20) Sample          20  40157932003,,17695,BIOTA
     Datafile           041818020
     Method             GEBIOTA2017
21) Sample          21  1674425,,17695,BIOTA RS
     Datafile           041818021
     Method             GEBIOTA2017
22) Sample          22  1674426,,17695,BIOTA RS
     Datafile           041818022
     Method             GEBIOTA2017
23) Sample          23  40157932004,,17695,BIOTA
     Datafile           041818023
     Method             GEBIOTA2017
24) Sample          24  40157932005,,17695,BIOTA
     Datafile           041818024
     Method             GEBIOTA2017
25) Sample          25  40157932006,,17695,BIOTA
     Datafile           041818025
     Method             GEBIOTA2017
26) Sample          26  40157932007,,17695,BIOTA
     Datafile           041818026
     Method             GEBIOTA2017
27) Sample          27  40157932008,,17695,BIOTA
     Datafile           041818027
     Method             GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
     Datafile           041818028
     Method             GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
     Datafile           041818029
     Method             GEBIOTA2017
30) Sample          30  40157932009,,17695,BIOTA
     Datafile           041818030
     Method             GEBIOTA2017
31) Sample          31  40157932010,,17695,BIOTA
     Datafile           041818031
     Method             GEBIOTA2017
32) Sample          32  40157932011,,17695,BIOTA
     Datafile           041818032
     Method             GEBIOTA2017
33) Sample          33  1254-CCV,185554:1,17498,AR125 OK
     Datafile           041818033
     Method             GEBIOTA2017
34) Sample          34  1254-CCV,185554:1,17498,AR125 OK
     Datafile           041818034
     Method             GEBIOTA2017
```

GCSV Batch 17695 HBN: 286371 Screened
40GCSI 4/18/18

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BLM 4/19/18

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Read and Understood By

Signed 4/19/18 Date Signed 4-19-18 Date

```
     Sequence Name: C:\msdchem\1\sequence\041918.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\041918\
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          041918001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041918002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041918003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041918004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041918005
     Method            GEBIOTA2017
 6) Sample          6  1674425 x2,,17695,BIOTA
     Datafile          041918006
     Method            GEBIOTA2017
 7) Sample          7  1674426 x2,,17695,BIOTA
     Datafile          041918007
     Method            GEBIOTA2017
 8) Sample          8  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041918008
     Method            GEBIOTA2017
 9) Sample          9  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041918009
     Method            GEBIOTA2017

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```

BLM 4/20/18

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Read and Understood By

Signed	Date	Signed	Date
[signature]	4/20/18	[signature]	4/20/18

Standard Log Report

Standards Log Information for Standard #194128

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/17/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/17/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #194128

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

Composed of Information for Standard #194128

Composed of Standard Seq	Volume	Units
192551	2000	mL
190947	2000	mL

Standard Log Report

Standards Log Information for Standard #193359

STOCK STANDARD

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

Notes:

Sodium Sulfate SVOA baked 4/9/18

Compound Name and Concentration for Standard #193359

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 #190947

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 #190947

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

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

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

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

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

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

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

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

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

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

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

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

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

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

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

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

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

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

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

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

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		

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

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

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

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

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

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

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

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

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

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.

o2si smart solutions®

Quality System Audited & Registered
by NSF-ISR to ISO 9001:2008

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: 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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Charleston, South Carolina 29407
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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

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

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

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

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

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

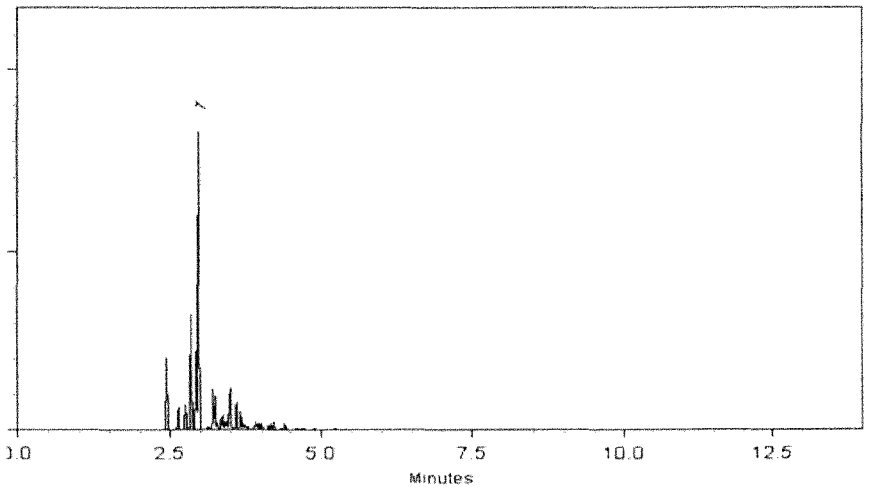
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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

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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. : 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)

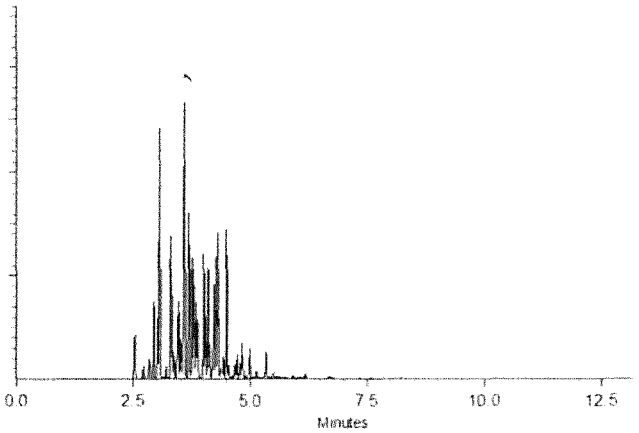
Carrier Gas:
helium-constant pressure 20 psi.

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:AKM QC

Date Passed: 31-Jan-2017

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

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed

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

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

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

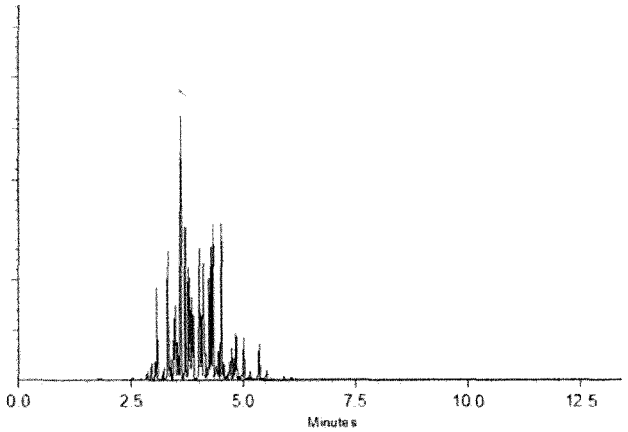
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

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

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

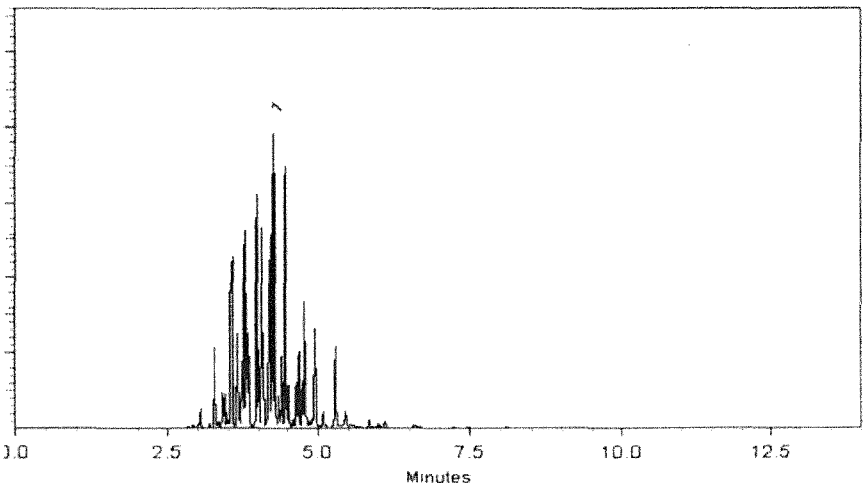
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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

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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)

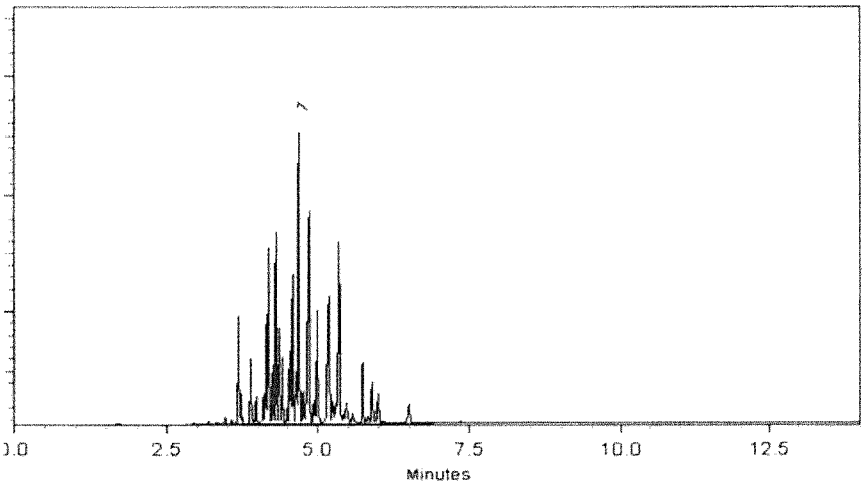
Carrier Gas:
helium-constant pressure 20 psi.

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
Registered Quality System
Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

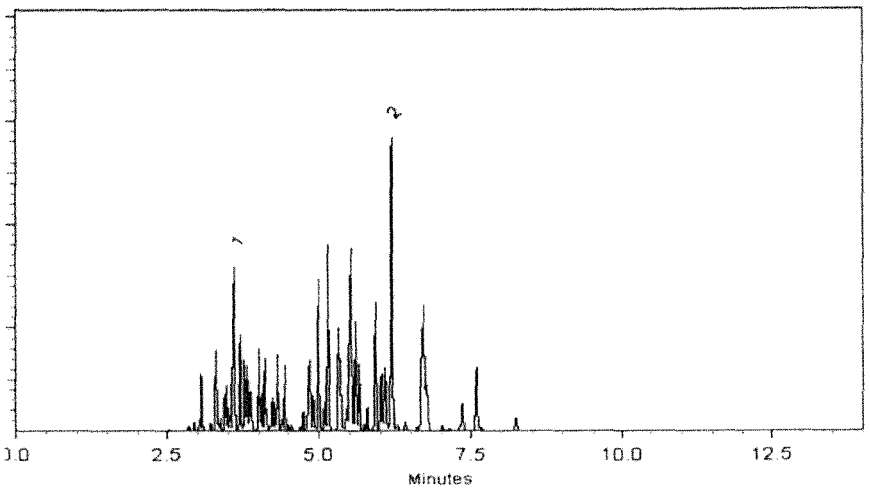
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis

Cathleen Soltis - Mix Technician

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

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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

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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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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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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

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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

DMH 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

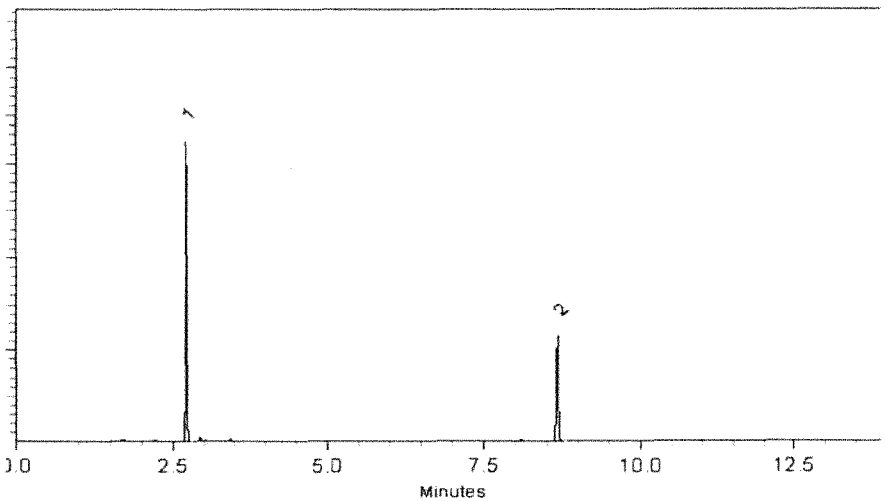
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

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

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

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

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

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

Honeywell
Quality Control Approval

Janna Dickinson

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

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

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Date Received: _____

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Rev 0

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

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

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

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

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

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

J.T.Baker® | avantor™

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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James 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.
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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. : 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)

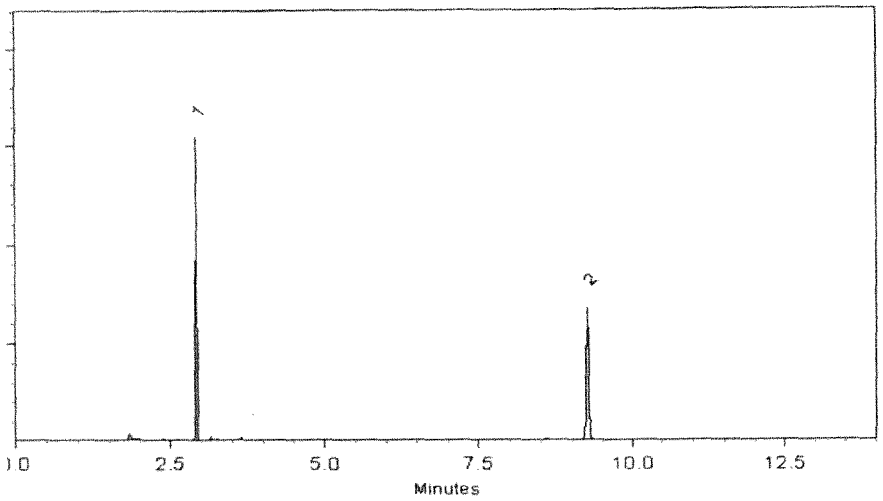
Carrier Gas:
helium-constant pressure 20 psi.

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: _____

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Rev 1 **Page 1 of 1**

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

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

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

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

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

Second Source standards are prepared according to NELAC

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

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

J.T.Baker | avantor

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

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

SAMPLE NO.

CS1-170620-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.44		%	1	04/18/2018 07:47

SAMPLE NO.

CS1-170620-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.79		%	1	04/18/2018 07:47

SAMPLE NO.

CS1-170620-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.92		%	1	04/18/2018 07:47

SAMPLE NO.

CS1-170620-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.59		%	1	04/18/2018 07:48

SAMPLE NO.

CS1-170620-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.50		%	1	04/18/2018 07:48

SAMPLE NO.

CS1-170620-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.38		%	1	04/18/2018 07:48

SAMPLE NO.

AT1-170620-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.50		%	1	04/18/2018 07:49

SAMPLE NO.

AT1-170620-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.47		%	1	04/18/2018 07:49

SAMPLE NO.

AT1-170620-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.61		%	1	04/18/2018 07:49

SAMPLE NO.

AT1-170620-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.63		%	1	04/18/2018 07:49

SAMPLE NO.

AT1-170620-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157932011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	04/18/2018 07:50

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 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	1674924	C
Lipid									<0.030	U

SAMPLE NO.

1674926DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.48	0.52	8

SAMPLE NO.

1674928DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157932 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.92	1.1	21

Prep Log Report

Batch Information: OEXT 286328 LIPID **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 12:13				

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	**1674924**	Y	-0.005000	04/18/2018 07:45:48		10	5	1	0.9235	0.9234	M	1674422
LIPID	BLANK	**1674925**	Y	0.005000	04/18/2018 07:45:59		10	5	1	0.9278	0.9279	M	1674423
LIPID	PS	**40157489007**	Y	0.4661	04/18/2018 07:46:10		9.9754	5	1	0.9248	0.9341	M	
LIPID	PS	**40157830016**	Y	0.4755	04/18/2018 07:46:23		9.9901	5	1	0.9259	0.9354	M	
LIPID	DUP	**1674926**	Y	0.5153	04/18/2018 07:46:48		9.9935	5	1	0.9257	0.936	M	1674424
LIPID	PS	**40157830017**	Y	0.2748	04/18/2018 07:47:00		10.0089	5	1	0.9283	0.9338	M	
LIPID	PS	**40157830018**	Y	0.8294	04/18/2018 07:47:12		10.0076	5	1	0.9257	0.9423	M	
LIPID	PS	**40157932001**	Y	0.4406	04/18/2018 07:47:22		9.9866	5	1	0.9294	0.9382	M	
LIPID	PS	**40157932002**	Y	0.7851	04/18/2018 07:47:34		9.9983	5	1	0.923	0.9387	M	
LIPID	RQS	**40157932003**	Y	0.9190	04/18/2018 07:47:48		10.0109	5	1	0.925	0.9434	M	
LIPID	DUP	**1674928**	Y	1.136	04/18/2018 07:48:12		10.0336	5	1	0.9231	0.9459	M	1674426
LIPID	PS	**40157932004**	Y	0.5895	04/18/2018 07:48:24		10.0083	5	1	0.922	0.9338	M	
LIPID	PS	**40157932005**	Y	0.4986	04/18/2018 07:48:37		10.0271	5	1	0.9251	0.9351	M	
LIPID	PS	**40157932006**	Y	0.3849	04/18/2018 07:48:49		10.0034	5	1	0.9261	0.9338	M	
LIPID	PS	**40157932007**	Y	0.5019	04/18/2018 07:49:01		9.9623	5	1	0.9249	0.9349	M	
LIPID	PS	**40157932008**	Y	0.4653	04/18/2018 07:49:13		9.9929	5	1	0.9232	0.9325	M	
LIPID	PS	**40157932009**	Y	0.6060	04/18/2018 07:49:24		9.9828	5	1	0.9228	0.9349	M	
LIPID	PS	**40157932010**	Y	0.6323	04/18/2018 07:49:36		9.9635	5	1	0.9237	0.9363	M	
LIPID	PS	**40157932011**	Y	1.268	04/18/2018 07:50:00		10.0169	5	1	0.9237	0.9491	M	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	MS	**1683154**	Y	1.027	04/18/2018 07:50:00		9.9796	5	1	.9207	0.9412	M	1674425

Client Name: GE
Project #: 40157932
Sample Type: Fish
Date/Time Removed to Thaw: 04-04-18
Date/Time Prepped: 04-05-18
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	A	F	Y	95.8	Y	U	40.03	Left / Both	Y	9AG	1	Y	40.1	C	
2	A	F	Y	139.2	Y	U	64.7	Left / Both	Y	9AG	1	Y	64.0	C	
3	A	F	Y	177.1	Y	M	72.1	Left / Both	Y	9AG	1	Y	70.8	C	
4	A	F	Y	160.3	Y	U	65.7	Left / Both	Y	9AG	1	Y	65.5	C	
5	A	F	Y	180.5	Y	U	69.5	Left / Both	Y	9AG	1	Y	69.2	C	
6	A	F	Y	121.3	Y	U	53.8	Left / Both	Y	9AG	1	Y	53.5	C	
7	A	F	Y	74.9	Y	U	33.5	Left / Both	Y	9AG	1	Y	32.4	C	
8	A	F	Y	77.8	Y	U	31.7	Left / Both	Y	9AG	1	Y	30.7	C	
9	A	F	Y	55.2	Y	U	24.5	Left / Both	Y	9AG	1	Y	22.9	C	
10	A	F	Y	151.8	Y	M	65.3	Left / Both	Y	9AG	1	Y	63.2	C	
11	A	F	Y	175.7	Y	M	42.2	Left / Both	Y	9AG	1	Y	39.4	C	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	04-05-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-8-036-04AB
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