Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40151616

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

SDG Narrative . . . 31

Organic

GC-ECD PCBs

Surrogate Recovery Summary (Form 2) . . . 33

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) . . . 35

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) . . . 37

Duplicate Summary (Form 3) . . . 39

Method Blank Association Summary (Form 4) . . . 42

Analytical Results with Raw Data (Form 1) . . . 44

Initial Calibration Summary (Form 6) . . . 132

Raw Data for Initial Calibration Standards . . . 139

Continuing Calibration Summary (Form 7) . . . 279

Raw Data for Continuing Calibration Standards . . . 295

Raw Data QC . . . 380

Preparation Logs Raw Data . . . 427

Instrument Run Log . . . 431

Standards Traceability . . . 450

Certificate of Analysis . . . 518

InOrganic

Gravimetric

Analytical Results (Form 1-IN) . . . 547

Blanks (Form 3-IN) . . . 557

Duplicates (Form 6-IN) . . . 559

Preparation Logs Raw Data . . . 562

Biota Prep Logs

Biota Prep Logs . . . 566

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

May 03, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tod Noltemeyer

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

Enclosures

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

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

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
Pace Project No.: 40151616

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151616001	**ND1-170613-01-YP-07**	Tissue	06/13/17 13:58	06/14/17 09:50
40151616002	**ND1-170613-01-BB-09**	Tissue	06/13/17 14:25	06/14/17 09:50
40151616003	**ND1-170613-01-BB-08**	Tissue	06/13/17 14:22	06/14/17 09:50
40151616004	**ND1-170613-01-BB-07**	Tissue	06/13/17 14:20	06/14/17 09:50
40151616005	**ND1-170613-01-BB-06**	Tissue	06/13/17 14:16	06/14/17 09:50
40151616006	**ND1-170613-01-BB-05**	Tissue	06/13/17 14:14	06/14/17 09:50
40151616007	**ND1-170613-01-BB-04**	Tissue	06/13/17 14:12	06/14/17 09:50
40151616008	**ND1-170613-01-BB-03**	Tissue	06/13/17 14:09	06/14/17 09:50
40151616009	**ND1-170613-01-BB-02**	Tissue	06/13/17 14:06	06/14/17 09:50
40151616010	**ND1-170613-01-BB-01**	Tissue	06/13/17 14:03	06/14/17 09:50

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151616001	**ND1-170613-01-YP-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616002	**ND1-170613-01-BB-09**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616003	**ND1-170613-01-BB-08**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616004	**ND1-170613-01-BB-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616005	**ND1-170613-01-BB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616006	**ND1-170613-01-BB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616007	**ND1-170613-01-BB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616008	**ND1-170613-01-BB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616009	**ND1-170613-01-BB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151616010	**ND1-170613-01-BB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Date: May 03, 2018

Samples may have ice meltwater in the ziplock bags.

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 03, 2018

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

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

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

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

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

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

QC Batch: 284104

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DUP (Lab ID: 1662969)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1662968)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND1-170613-01-BB-01 (Lab ID: 40151616010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND1-170613-01-BB-02 (Lab ID: 40151616009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND1-170613-01-BB-04 (Lab ID: 40151616007)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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

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

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 03, 2018

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

QC Batch: 284104

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40151616010

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1662968)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

Analyte Comments:

QC Batch: 283977

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

- MS (Lab ID: 1662165)
  - PCB-1016 (Aroclor 1016)
- ND1-170613-01-YP-07 (Lab ID: 40151616001)
  - PCB-1016 (Aroclor 1016)

QC Batch: 284104

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

- DUP (Lab ID: 1662969)
  - PCB-1016 (Aroclor 1016)
- MS (Lab ID: 1662968)
  - PCB-1016 (Aroclor 1016)
- ND1-170613-01-BB-01 (Lab ID: 40151616010)
  - PCB-1016 (Aroclor 1016)
- ND1-170613-01-BB-02 (Lab ID: 40151616009)
  - PCB-1016 (Aroclor 1016)
- ND1-170613-01-BB-04 (Lab ID: 40151616007)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 03, 2018

General Information:
10 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
Pace Project No.: 40151616

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 03, 2018

General Information:
10 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
Pace Project No.: 40151616

Sample: ND1-170613-01-YP-07 **Lab ID: 40151616001** Collected: 06/13/17 13:58 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**151**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**256**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**132**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**<22.8**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	11096-82-5	
PCB, Total	**538**	ug/kg	100	22.8	2	03/22/18 07:22	04/05/18 14:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		2	03/22/18 07:22	04/05/18 14:39	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		2	03/22/18 07:22	04/05/18 14:39	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:18		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.44**	%	0.030	0.030	1		03/23/18 06:20		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-09 **Lab ID: 40151616002** Collected: 06/13/17 14:25 Received: 06/14/17 09:50 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)	**<114**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**1530**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**953**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**318J**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	11096-82-5	
PCB, Total	**2800**	ug/kg	498	114	10	03/23/18 07:10	03/27/18 18:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		10	03/23/18 07:10	03/27/18 18:24	877-09-8	
Decachlorobiphenyl (S)	112	%	60-140		10	03/23/18 07:10	03/27/18 18:24	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:18		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-08 **Lab ID: 40151616003** Collected: 06/13/17 14:22 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.3**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**713**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**461**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**146J**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	11096-82-5	
PCB, Total	**1320**	ug/kg	151	34.3	3	03/23/18 07:10	03/27/18 18:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		3	03/23/18 07:10	03/27/18 18:40	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		3	03/23/18 07:10	03/27/18 18:40	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.76**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-07 **Lab ID: 40151616004** Collected: 06/13/17 14:20 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.2**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.2**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.2**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.2**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**949**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**607**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**194J**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	11096-82-5	
PCB, Total	**1750**	ug/kg	251	57.2	5	03/23/18 07:10	03/27/18 18:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		5	03/23/18 07:10	03/27/18 18:56	877-09-8	
Decachlorobiphenyl (S)	112	%	60-140		5	03/23/18 07:10	03/27/18 18:56	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-06 **Lab ID: 40151616005** Collected: 06/13/17 14:16 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**101**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**267**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**147**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**40.3J**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	11096-82-5	
PCB, Total	**555**	ug/kg	50.2	11.4	1	03/23/18 07:10	03/27/18 19:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/23/18 07:10	03/27/18 19:12	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/23/18 07:10	03/27/18 19:12	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.81**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-05 **Lab ID: 40151616006** Collected: 06/13/17 14:14 Received: 06/14/17 09:50 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)	**<114**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**1640**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**1080**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**362J**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	11096-82-5	
PCB, Total	**3080**	ug/kg	499	114	10	03/23/18 07:10	03/27/18 19:28	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		10	03/23/18 07:10	03/27/18 19:28	877-09-8	
Decachlorobiphenyl (S)	119	%	60-140		10	03/23/18 07:10	03/27/18 19:28	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-04 **Lab ID: 40151616007** Collected: 06/13/17 14:12 Received: 06/14/17 09:50 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)	**<172**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**1550**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<172**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<172**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**1410**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**901**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**402J**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	11096-82-5	
PCB, Total	**4260**	ug/kg	753	172	15	03/23/18 07:10	03/28/18 15:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		15	03/23/18 07:10	03/28/18 15:12	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		15	03/23/18 07:10	03/28/18 15:12	2051-24-3	S4
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.78**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-03 **Lab ID: 40151616008** Collected: 06/13/17 14:09 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.7**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**109**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**404**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**218**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**58.1J**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	11096-82-5	
PCB, Total	**789**	ug/kg	99.7	22.7	2	03/23/18 07:10	03/27/18 19:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		2	03/23/18 07:10	03/27/18 19:59	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		2	03/23/18 07:10	03/27/18 19:59	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-02 **Lab ID: 40151616009** Collected: 06/13/17 14:06 Received: 06/14/17 09:50 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)	**<1140**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**8450**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1140**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1140**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**1390J**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**<1140**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1140**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	11096-82-5	
PCB, Total	**9840**	ug/kg	5010	1140	100	03/23/18 07:10	03/28/18 15:28	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		100	03/23/18 07:10	03/28/18 15:28	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		100	03/23/18 07:10	03/28/18 15:28	2051-24-3	S4
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

Sample: ND1-170613-01-BB-01 **Lab ID: 40151616010** Collected: 06/13/17 14:03 Received: 06/14/17 09:50 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)	**<456**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**4140**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<456**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<456**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	53469-21-9	M6
PCB-1248 (Aroclor 1248)	**489J**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**<456**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<456**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	11096-82-5	
PCB, Total	**4630**	ug/kg	2000	456	40	03/23/18 07:10	03/30/18 16:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		40	03/23/18 07:10	03/30/18 16:34	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		40	03/23/18 07:10	03/30/18 16:34	2051-24-3	S4
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:19		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.43**	%	0.030	0.030	1		03/23/18 14:11		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

QC Batch: 283977 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151616001

METHOD BLANK: 1662163 | Matrix: Tissue
Associated Lab Samples: 40151616001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
Decachlorobiphenyl (S)	%	91	60-140		03/23/18 13:57	
Tetrachloro-m-xylene (S)	%	77	60-140		03/23/18 13:57	

LABORATORY CONTROL SAMPLE: 1662164

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	240	96	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)	%			91	60-140	
Tetrachloro-m-xylene (S)	%			78	60-140	

MATRIX SPIKE SAMPLE: 1662165

Parameter	Units	40151619002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<22.9			1q
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<22.9			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<22.9			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	251	308	123	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	284		439			
PCB-1254 (Aroclor 1254)	ug/kg	183		209			
PCB-1260 (Aroclor 1260)	ug/kg	41.4J		46.7J			
Decachlorobiphenyl (S)	%				90	60-140	
Tetrachloro-m-xylene (S)	%				84	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

SAMPLE DUPLICATE: 1662166

Parameter	Units	40151619002 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	284	305	7	40	
PCB-1254 (Aroclor 1254)	ug/kg	183	201	10	40	
PCB-1260 (Aroclor 1260)	ug/kg	41.4J	48.5J		40	
Decachlorobiphenyl (S)	%	92	87	6		
Tetrachloro-m-xylene (S)	%	89	84	5		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

QC Batch: 284104 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151616002, 40151616003, 40151616004, 40151616005, 40151616006, 40151616007, 40151616008, 40151616009, 40151616010

METHOD BLANK: 1662965 | Matrix: Tissue
Associated Lab Samples: 40151616002, 40151616003, 40151616004, 40151616005, 40151616006, 40151616007, 40151616008, 40151616009, 40151616010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
Decachlorobiphenyl (S)	%	83	60-140		03/27/18 15:30	
Tetrachloro-m-xylene (S)	%	71	60-140		03/27/18 15:30	

LABORATORY CONTROL SAMPLE: 1662966

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	259	103	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			94	60-140	
Tetrachloro-m-xylene (S)	%			84	60-140	

MATRIX SPIKE SAMPLE: 1662968

Parameter	Units	40151616010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<456		<458			1q
PCB-1221 (Aroclor 1221)	ug/kg	4140		4040			
PCB-1232 (Aroclor 1232)	ug/kg	<456		<458			
PCB-1242 (Aroclor 1242)	ug/kg	<456	251	<458	0	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	489J		736J			
PCB-1254 (Aroclor 1254)	ug/kg	<456		471J			
PCB-1260 (Aroclor 1260)	ug/kg	<456		<458			
Decachlorobiphenyl (S)	%				0	60-140	S4
Tetrachloro-m-xylene (S)	%				0	60-140	S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

SAMPLE DUPLICATE: 1662967

Parameter	Units	40151613012 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	<11.4		40	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	<11.4		40	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	<11.4		40	
Decachlorobiphenyl (S)	%	93	94	1		
Tetrachloro-m-xylene (S)	%	89	90	1		

SAMPLE DUPLICATE: 1662969

Parameter	Units	40151616010 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<456	<342		40	1q
PCB-1221 (Aroclor 1221)	ug/kg	4140	3480	17	40	
PCB-1232 (Aroclor 1232)	ug/kg	<456	<342		40	
PCB-1242 (Aroclor 1242)	ug/kg	<456	<342		40	
PCB-1248 (Aroclor 1248)	ug/kg	489J	420J		40	
PCB-1254 (Aroclor 1254)	ug/kg	<456	<342		40	
PCB-1260 (Aroclor 1260)	ug/kg	<456	<342		40	
Decachlorobiphenyl (S)	%	0	0			S4
Tetrachloro-m-xylene (S)	%	0	0			S4

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

QC Batch: 284080 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151616001

METHOD BLANK: 1662744 | Matrix: Tissue
Associated Lab Samples: 40151616001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/23/18 06:20	

MATRIX SPIKE SAMPLE: 1682565

Parameter	Units	40151619002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.70		0.76			

SAMPLE DUPLICATE: 1662747

Parameter	Units	40151619002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.70	0.81	14	40	

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

QC Batch: 284178 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151616002, 40151616003, 40151616004, 40151616005, 40151616006, 40151616007, 40151616008, 40151616009, 40151616010

METHOD BLANK: 1663325 | Matrix: Tissue
Associated Lab Samples: 40151616002, 40151616003, 40151616004, 40151616005, 40151616006, 40151616007, 40151616008, 40151616009, 40151616010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/23/18 14:11	

MATRIX SPIKE SAMPLE: 1682513

Parameter	Units	40151616010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.43		0.47			

SAMPLE DUPLICATE: 1663327

Parameter	Units	40151613012 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.32	0.27	15	40	

SAMPLE DUPLICATE: 1663329

Parameter	Units	40151616010 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.43	0.37	16	40	

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151616

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.

WORKORDER QUALIFIERS

WO: 40151616

[1] Samples may have ice meltwater in the ziplock bags.

ANALYTE QUALIFIERS

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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

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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
Pace Project No.: 40151616

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151616001	**ND1-170613-01-YP-07**	EPA 3541	283977	EPA 8082A Mod	284142
40151616002	**ND1-170613-01-BB-09**	EPA 3541	284104	EPA 8082A Mod	284353
40151616003	**ND1-170613-01-BB-08**	EPA 3541	284104	EPA 8082A Mod	284353
40151616004	**ND1-170613-01-BB-07**	EPA 3541	284104	EPA 8082A Mod	284353
40151616005	**ND1-170613-01-BB-06**	EPA 3541	284104	EPA 8082A Mod	284353
40151616006	**ND1-170613-01-BB-05**	EPA 3541	284104	EPA 8082A Mod	284353
40151616007	**ND1-170613-01-BB-04**	EPA 3541	284104	EPA 8082A Mod	284353
40151616008	**ND1-170613-01-BB-03**	EPA 3541	284104	EPA 8082A Mod	284353
40151616009	**ND1-170613-01-BB-02**	EPA 3541	284104	EPA 8082A Mod	284353
40151616010	**ND1-170613-01-BB-01**	EPA 3541	284104	EPA 8082A Mod	284353
40151616001	**ND1-170613-01-YP-07**	Pace Gender Typing	283311		
40151616002	**ND1-170613-01-BB-09**	Pace Gender Typing	283311		
40151616003	**ND1-170613-01-BB-08**	Pace Gender Typing	283311		
40151616004	**ND1-170613-01-BB-07**	Pace Gender Typing	283311		
40151616005	**ND1-170613-01-BB-06**	Pace Gender Typing	283311		
40151616006	**ND1-170613-01-BB-05**	Pace Gender Typing	283311		
40151616007	**ND1-170613-01-BB-04**	Pace Gender Typing	283311		
40151616008	**ND1-170613-01-BB-03**	Pace Gender Typing	283311		
40151616009	**ND1-170613-01-BB-02**	Pace Gender Typing	283311		
40151616010	**ND1-170613-01-BB-01**	Pace Gender Typing	283311		
40151616001	**ND1-170613-01-YP-07**	Pace Lipid	284080		
40151616002	**ND1-170613-01-BB-09**	Pace Lipid	284178		
40151616003	**ND1-170613-01-BB-08**	Pace Lipid	284178		
40151616004	**ND1-170613-01-BB-07**	Pace Lipid	284178		
40151616005	**ND1-170613-01-BB-06**	Pace Lipid	284178		
40151616006	**ND1-170613-01-BB-05**	Pace Lipid	284178		
40151616007	**ND1-170613-01-BB-04**	Pace Lipid	284178		
40151616008	**ND1-170613-01-BB-03**	Pace Lipid	284178		
40151616009	**ND1-170613-01-BB-02**	Pace Lipid	284178		
40151616010	**ND1-170613-01-BB-01**	Pace Lipid	284178		

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40151616

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-04
Sample Custodian: MCS
Lab: Pace - Green Bay

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

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	ND1-170613-01	ND1-170613-01-YP-07	6/13/2017	13:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
002	ND1-170613-01	ND1-170613-01-YP-06	6/13/2017	13:56	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	ND1-170613-01	ND1-170613-01-YP-03	6/13/2017	13:49	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	ND1-170613-01	ND1-170613-01-YP-02	6/13/2017	13:48	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	ND1-170613-01	ND1-170613-01-YP-01	6/13/2017	13:47	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	ND1-170613-01	ND1-170613-01-YB-01	6/13/2017	14:01	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	ND1-170613-01	ND1-170613-01-SMB-05	6/13/2017	13:45	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	ND1-170613-01	ND1-170613-01-SMB-04	6/13/2017	13:44	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	ND1-170613-01	ND1-170613-01-SMB-03	6/13/2017	13:42	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	ND1-170613-01	ND1-170613-01-SMB-02	6/13/2017	13:38	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

001

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company Fedex	Company Pace	Company	Company	Company	Company
Date/Time 6/14/17 0950	Date/Time 6/14/17 0950	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/13/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 1 of 2***

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-04
Sample Custodian: MCS
Lab: Pace - Green Bay

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

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	ND1-170613-01	ND1-170613-01-SMB-01	6/13/2017	13:36	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	ND1-170613-01 002	ND1-170613-01-BB-09	6/13/2017	14:25	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	ND1-170613-01 003	ND1-170613-01-BB-08	6/13/2017	14:22	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	ND1-170613-01 004	ND1-170613-01-BB-07	6/13/2017	14:20	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	ND1-170613-01 005	ND1-170613-01-BB-06	6/13/2017	14:16	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	ND1-170613-01 006	ND1-170613-01-BB-05	6/13/2017	14:14	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	ND1-170613-01 007	ND1-170613-01-BB-04	6/13/2017	14:12	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	ND1-170613-01 008	ND1-170613-01-BB-03	6/13/2017	14:09	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	ND1-170613-01 009	ND1-170613-01-BB-02	6/13/2017	14:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
020	ND1-170613-01 010	ND1-170613-01-BB-01	6/13/2017	14:03	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1. ziploc *

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name Fleetter	Print Name	Print Name	Print Name	Print Name
Company Fedex	Company Pace	Company	Company	Company	Company
Date/Time 6/14/17 0950	Date/Time 6/14/17 0950	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/13/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** *TPCB-LIPD-PEST-MERCURY* **Page 2 of 2**

Pace Analytical

Sample Condition Upon Receipt

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

Project #: **WO#: 40151616**

40151616

Client Name: Anchor

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

Tracking #: 786867884126, 786867884090, 786867884104

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

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

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

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

Cooler Temperature Uncorr: 2.3, 3 /Corr: 2.3, 3 **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: 6/14/17
Initials: [illegible]

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

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

Person Contacted: Date/Time:

Comments/ Resolution: all samples have melt water in ziploc [illegible] 6/14/17

Project Manager Review: AL for TN **Date:** 6/14/17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40151616
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 3°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

C. Surrogates: All QAPP specified acceptance criteria were met. Surrogate levels are below the lowest calibration level when dilution factors are greater than 10. In the cases where the surrogates are not applicable due to sample dilution, the “S4” data qualifier is applied to the final report.

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample ND1-170613-01-BB-01 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:40 dilution to bring a non-fortified Aroclor within instrument calibration range. Spike levels are below the lowest calibration level when dilution factors are greater than five; therefore, the accuracy criteria for the MSD are not applicable. The “M6” data qualifier was applied to the parent result on the final report. Batch QC was also analyzed with this SDG.

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

F. Sample Duplicate: Sample ND1-170613-01-BB-01 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions:

Sample ID	Reason for dilution
ND1-170613-01-YP-07	To bring Aroclors within instrument calibration range
ND1-170613-01-BB-02	To bring Aroclors within instrument calibration range
ND1-170613-01-BB-01	To bring Aroclors within instrument calibration range
ND1-170613-01-SMB-03	To bring Aroclors within instrument calibration range
ND1-170613-01-SMB-02	To bring Aroclors within instrument calibration range

H. Reanalysis: Samples ND1-170613-01-YP-07, ND1-170613-01-BB-04, ND1-170613-01-BB-02, ND1-170613-01-BB-01, MS 1662968, and DUP 1662969 were initially analyzed straight or diluted based on screener data. Upon analysis, the samples were found to require reanalysis at different dilutions to bring individual Aroclor peaks within instrument calibration range. The samples were reported with the “1q” data qualifier on the final report to note the occurrence.

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

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

Signed: Leigh A Begalske Date: 05/14/18

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.: 40151616 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1662163	1662163BLANK	91	77
1662164	1662164LCS	91	78
40151616001	ND1-170613-01-YP-07	91	81

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

* Values outside of QC Limits

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151616 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1662965	1662965BLANK	83	71
1662966	1662966LCS	94	84
1662968	1662968MS	0*	0*
1662969	1662969DUP	0*	0*
40151616002	ND1-170613-01-BB-09	112	92
40151616003	ND1-170613-01-BB-08	97	90
40151616004	ND1-170613-01-BB-07	112	99
40151616005	ND1-170613-01-BB-06	91	93
40151616006	ND1-170613-01-BB-05	119	97
40151616007	ND1-170613-01-BB-04	0*	0*
40151616008	ND1-170613-01-BB-03	91	86
40151616009	ND1-170613-01-BB-02	0*	0*
40151616010	ND1-170613-01-BB-01	0*	0*

	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: 1662164LCS

Date Extracted: 03/22/2018

Date Analyzed (1): 03/23/2018

Instrument: 40GCSJ

LCS Lot No: 182336

Lab File ID: 032318.B\032318007.D

SDG No.: 40151616

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	240	96	70-130

Spike Recovery: 0 out of 1 outside limits.

05/10/2018 4:45

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument: 40GCSJ

Lab File ID: 032718.B\032718011.D

Lab Sample ID: 1662966LCS

Date Analyzed (1): 03/27/2018

LCS Lot No: 182336

SDG No.: 40151616

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	259	103	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/22/2018

Instrument: 40GCSJ

Parent Sample ID: 40151619002

Matrix Spike - Sample No: 1662165MS

Date Analyzed (1): 03/27/2018

Lab File ID: 032718.B\032718007.D

SDG No.: 40151616

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	308	123	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument: 40GCSJ

Parent Sample ID: ND1-170613-01-BB-01

Matrix Spike - Sample No: 1662968MS

Date Analyzed (1): 03/30/2018

Lab File ID: 033018.B\033018006.D

SDG No.: 40151616

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<456	<458	0	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/22/2018

Instrument 40GCSJ

Lab Sample ID: 40151619002

Duplicate Sample No: 40151619002DUP

Date Analyzed: 03/23/2018

Lab File ID: 032318.B\032318019.D

SDG No.: 40151616

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	284	305	7	0-40
PCB-1254 (Aroclor 1254)	183	201	10	0-40
PCB-1260 (Aroclor 1260)	41.4J	48.5J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument 40GCSJ

Lab Sample ID: 40151613012

Duplicate Sample No: 40151613012DUP

Date Analyzed: 03/27/2018

Lab File ID: 032718.B\032718014.D

SDG No.: 40151616

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

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument 40GCSJ

Lab Sample ID: ND1-170613-01-BB-01

Duplicate Sample No: 40151616010DUP

Date Analyzed: 03/28/2018

Lab File ID: 032818.B\032818011.D

SDG No.: 40151616

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<456	<342		0-40
PCB-1221 (Aroclor 1221)	4140	3480	17	0-40
PCB-1232 (Aroclor 1232)	<456	<342		0-40
PCB-1242 (Aroclor 1242)	<456	<342		0-40
PCB-1248 (Aroclor 1248)	489J	420J		0-40
PCB-1254 (Aroclor 1254)	<456	<342		0-40
PCB-1260 (Aroclor 1260)	<456	<342		0-40

RPD: 0 out of 1 outside limits.

SAMPLE NO.

1662163BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151616 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1662163

Lab File ID: 032318.B\032318006.D Date Analyzed: 03/23/2018 Time:13:57

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1662164LCS	1662164	032318.B\032318007.D	03/23/2018 14:13
1662166DUP	1662166	032318.B\032318019.D	03/23/2018 17:23
ND1-170613-01-YP-07	40151616001	040518.B\040518006.D	04/05/2018 14:39

SAMPLE NO.

1662965BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151616 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1662965

Lab File ID: 032718.B\032718010.D Date Analyzed: 03/27/2018 Time:15:30

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1662966LCS	1662966	032718.B\032718011.D	03/27/2018 15:46
1662967DUP	1662967	032718.B\032718014.D	03/27/2018 16:33
ND1-170613-01-BB-09	40151616002	032718.B\032718021.D	03/27/2018 18:24
ND1-170613-01-BB-08	40151616003	032718.B\032718022.D	03/27/2018 18:40
ND1-170613-01-BB-07	40151616004	032718.B\032718023.D	03/27/2018 18:56
ND1-170613-01-BB-06	40151616005	032718.B\032718024.D	03/27/2018 19:12
ND1-170613-01-BB-05	40151616006	032718.B\032718025.D	03/27/2018 19:28
ND1-170613-01-BB-03	40151616008	032718.B\032718027.D	03/27/2018 19:59
ND1-170613-01-BB-04	40151616007	032818.B\032818008.D	03/28/2018 15:12
ND1-170613-01-BB-02	40151616009	032818.B\032818009.D	03/28/2018 15:28
1662969DUP	1662969	032818.B\032818011.D	03/28/2018 15:59
1662968MS	1662968	033018.B\033018006.D	03/30/2018 16:19
ND1-170613-01-BB-01	40151616010	033018.B\033018007.D	03/30/2018 16:34

SAMPLE NO.

ND1-170613-01-YP-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151616001
Date Analyzed: 04/05/2018 14:39
Lab File ID: 040518.B\040518006.D
Initial wt/vol: 9.9967 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)	151	
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	256	
11097-69-1	PCB-1254 (Aroclor 1254)	132	
11096-82-5	PCB-1260 (Aroclor 1260)	<22.8	U
1336-36-3	PCB, Total	538	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518006.D
Lab Smp Id: 40151616001 Client Smp ID: ND1-170613-01-YP-07
Inj Date : 05-APR-2018 14:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616001 x2,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.997	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.805	32323	25403	0.786	0.09		1 Aroclor 1221	BA
2.412	375030	296751	0.791	1.14		1 Aroclor 1221	BA
2.485	5012951	4744770	0.947	15.77	$	2 Tetrachloro-m-xylene	BA
2.690	11175	10668	0.955	0.03		1 Aroclor 1221	BA
2.787	18740	16998	0.907	0.05		1 Aroclor 1221	BA
2.853	38107	27489	0.721	0.11		1 Aroclor 1221	BA
2.967	25099	11805	0.470	0.07			
3.016	16848	15250	0.905	0.05			
3.055	385878	354637	0.919	1.17			
3.319	48805	45654	0.935	0.14			
3.345	101531	89353	0.880	0.31			
3.433	355916	324861	0.913	1.08			
3.519	253550	237682	0.937	0.77			
3.645	60583	49620	0.819	0.18			
3.731	163784	116905	0.714	0.50			
3.815	228913	295091	1.289	0.69			
3.826	377635	325991	0.863	1.15			
3.939	217102	184915	0.852	0.66			
3.993	214427	195068	0.910	0.65			
4.060	89154	77111	0.865	0.27			
4.138	14988	13190	0.880	0.04			
4.215	1014589	923447	0.910	3.10			
4.261	991973	953031	0.961	3.03		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1320361	1144775	0.867	4.03	
4.348	27338	20941	0.766	0.08	
4.417	401377	376614	0.938	1.22	
4.453	346576	307009	0.886	1.05	
4.546	770649	719713	0.934	2.35	6 Aroclor 1248
4.588	98446	92022	0.935	0.30	
4.618	87033	69750	0.801	0.26	
4.681	80879	71318	0.882	0.24	
4.737	104084	78588	0.755	0.31	
4.768	198812	177117	0.891	0.60	
4.813	550710	516717	0.938	1.68	6 Aroclor 1248
4.848	399395	362460	0.908	1.22	
4.879	1353456	738193	0.545	4.13	6 Aroclor 1248
4.956	284699	234573	0.824	0.86	
5.038	463244	409446	0.884	1.41	6 Aroclor 1248
5.101	537603	461988	0.859	1.64	
5.162	806644	692646	0.859	2.46	7 Aroclor 1254
5.212	625640	543890	0.869	1.91	
5.285	68511	64166	0.937	0.20	
5.309	168487	135150	0.802	0.51	
5.363	234353	204982	0.875	0.71	
5.407	564517	504937	0.894	1.72	7 Aroclor 1254
5.446	337106	283584	0.841	1.03	
5.478	83425	75808	0.909	0.25	
5.509	998191	861632	0.863	3.05	7 Aroclor 1254
5.575	47172	39515	0.838	0.14	
5.604	139174	121149	0.870	0.42	
5.675	279744	256052	0.915	0.85	
5.710	179125	136848	0.764	0.54	
5.742	189135	147472	0.780	0.57	
5.790	1116102	842397	0.755	3.41	
5.885	138497	95259	0.688	0.42	
5.931	89591	75916	0.847	0.27	
5.994	203729	183307	0.900	0.62	
6.025	538154	469387	0.872	1.64	7 Aroclor 1254
6.055	582097	481964	0.828	1.77	
6.168	179696	104855	0.584	0.54	
6.227	120091	72394	0.603	0.36	
6.301	882371	722318	0.819	2.69	7 Aroclor 1254
6.333	94193	84398	0.896	0.28	
6.374	50220	36580	0.728	0.15	
6.433	120215	90215	0.750	0.36	
6.510	276114	250135	0.906	0.84	
6.535	186678	126685	0.679	0.57	
6.604	26734	20309	0.760	0.08	
6.661	27009	19803	0.733	0.08	
6.718	99399	82720	0.832	0.30	
6.758	113785	98584	0.866	0.34	
6.802	113857	98858	0.868	0.34	
6.837	65711	43717	0.665	0.20	
6.913	19162	15671	0.818	0.05	
6.942	54066	47513	0.879	0.16	
7.004	172995	155385	0.898	0.52	8 Aroclor 1260
7.034	25121	23387	0.931	0.07	
7.117	18162	17597	0.969	0.05	
7.249	92874	81636	0.879	0.28	8 Aroclor 1260
7.278	44069	31671	0.719	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.389	92266	80814	0.876	0.28	
7.443	89313	77869	0.872	0.27	8 Aroclor 1260
7.692	31909	26863	0.842	0.09	
7.726	43877	39043	0.890	0.13	
7.799	40504	24648	0.609	0.12	
7.899	54099	42424	0.784	0.16	8 Aroclor 1260
8.274	83635	73584	0.880	0.25	
8.377	15311	10099	0.660	0.04	
8.571	5005750	4142627	0.828	15.29	$ 12 Decachlorobiphenyl
8.940	9367	7343	0.784	0.02	
9.960	13927	10177	0.731	0.04	
	32725636	28092897		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518006.D
Lab Smp Id: 40151616001 Client Smp ID: ND1-170613-01-YP-07
Inj Date : 05-APR-2018 14:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616001 x2,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.997	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	32323	0.03104	31	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	375029	0.68456	680	0.00- 20.00	1160.25	BA
2.689	2.688	0.001	11174	0.00808	8.1	0.00- 20.00	34.57	BA
2.787	2.789	-0.002	18739	0.01695	17	0.00- 20.00	57.97	BA
2.852	2.851	0.001	38106	0.01171	12	0.00- 20.00	117.89	BA
Average of Peak Concentrations =					150			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5012950	0.04066	41		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								BA

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.								BA
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	991973	0.42338	420	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	770649	0.18568	180	0.00- 20.00	77.69	BA
4.813	4.812	0.001	550710	0.27127	270	0.00- 20.00	55.52	BA
4.879	4.879	0.000	1353455	0.26868	270	0.00- 20.00	136.44	BA
5.037	5.038	-0.001	463244	0.12909	130	0.00- 20.00	46.70	BA
Average of Peak Concentrations =					260			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	806643	0.15408	150	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	564516	0.13125	130	0.00- 20.00	69.98	BA
5.509	5.510	-0.001	998191	0.12853	130	0.00- 20.00	123.75	BA
6.025	6.027	-0.002	538153	0.11051	110	0.00- 20.00	66.72	BA
6.301	6.299	0.002	882371	0.13560	140	0.00- 20.00	109.39	BA
Average of Peak Concentrations =					130			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5005750	0.04569	46			

QC Flag Legend

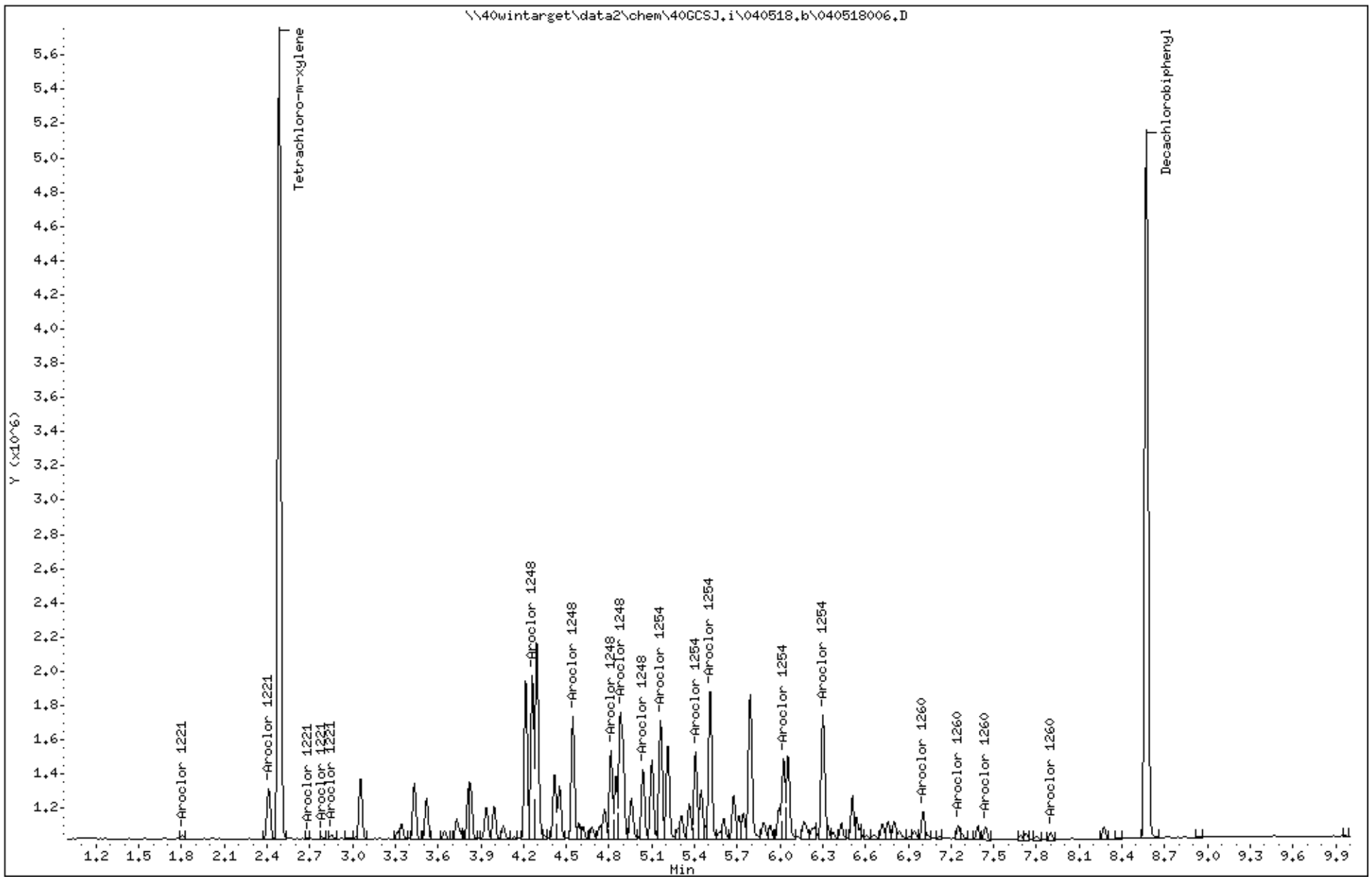
M - Compound response manually integrated.

Review Codes Legend

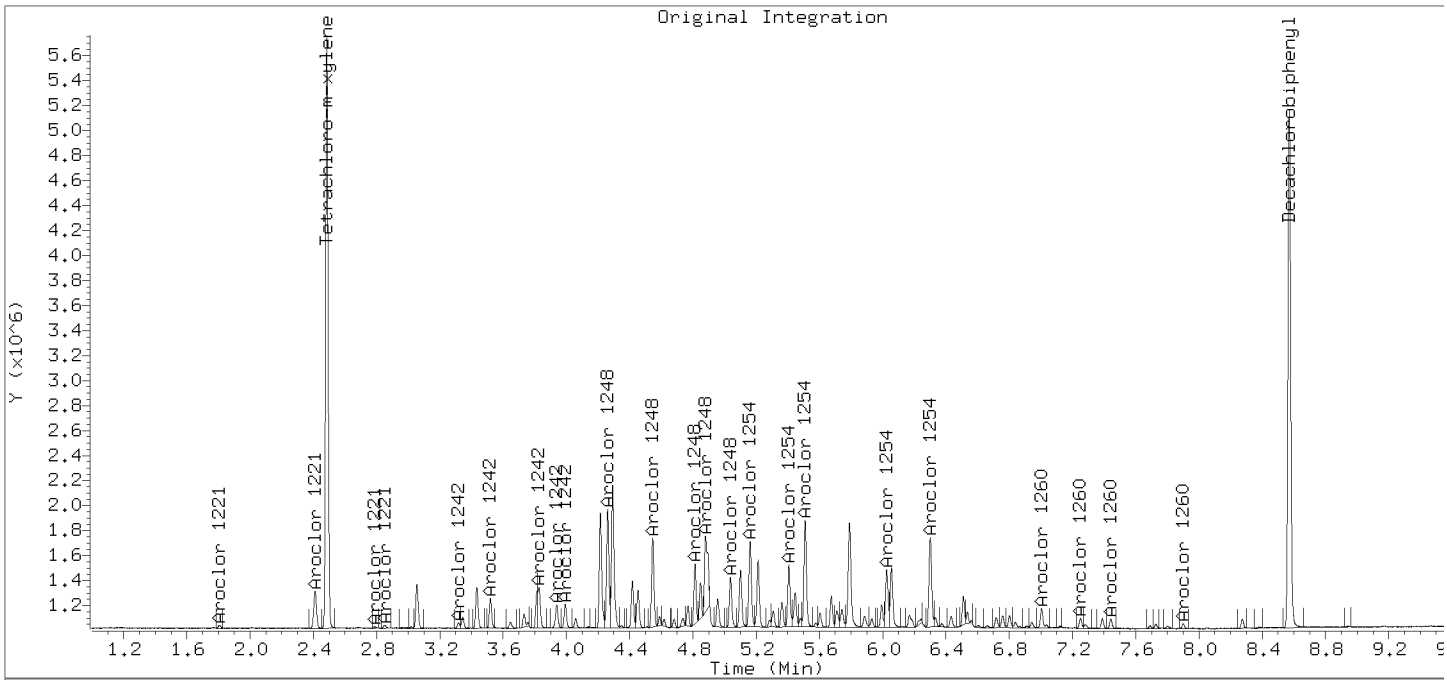
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

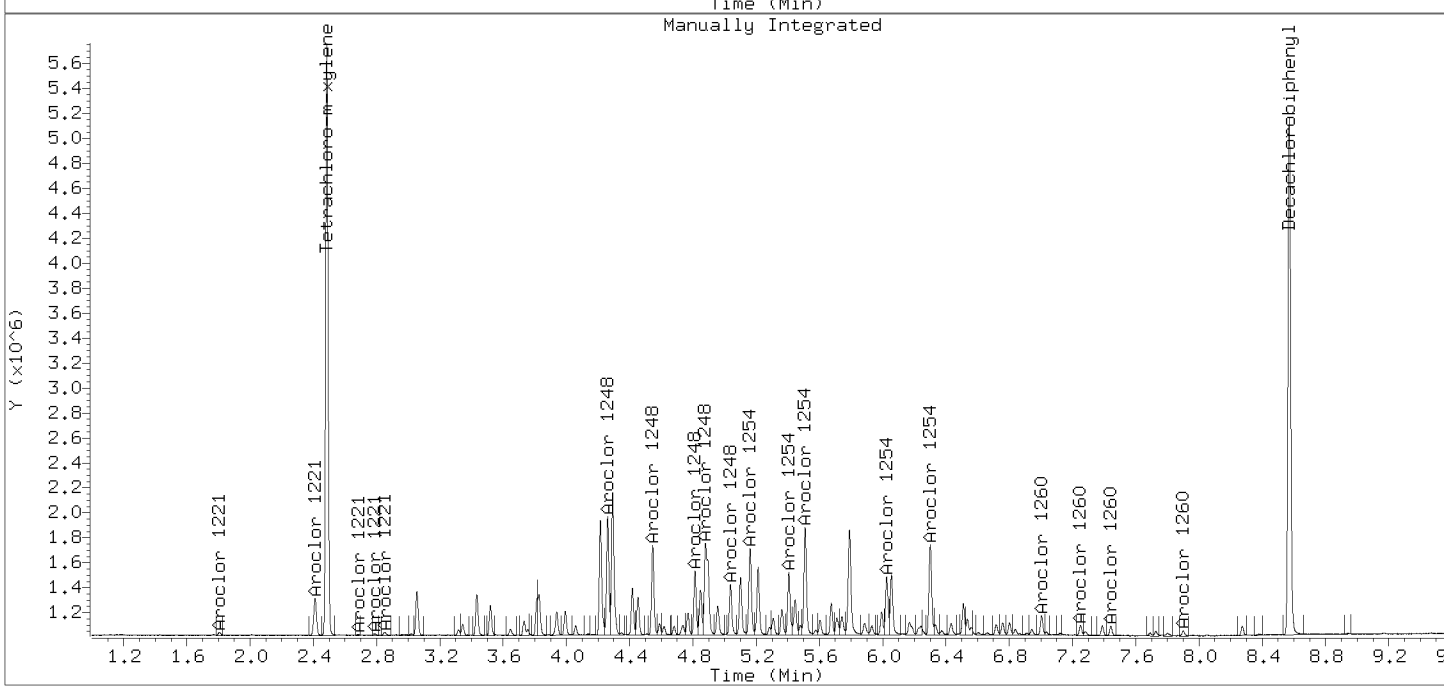
Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518006.D
Date : 05-APR-2018 14:39
Client ID: ND1-170613-01-YP-07
Sample Info: 40151616001 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 14:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	47345	0	BA
Aroclor 1016	47345	0	BA
Aroclor 1016	47345	0	BA
Aroclor 1016	47345	0	BA
Aroclor 1016	47345	0	BA
Aroclor 1221	28615	32323	BA
Aroclor 1221	28615	32323	BA
Aroclor 1221	28615	32323	BA
Aroclor 1221	28615	32323	BA
Aroclor 1221	28615	32323	BA
Aroclor 1232	31840	0	BA
Aroclor 1232	31840	0	BA
Aroclor 1232	31840	0	BA
Aroclor 1232	31840	0	BA

Aroclor 1232	31840	0	BA
Aroclor 1242	47345	0	BA
Aroclor 1242	47345	0	BA
Aroclor 1242	47345	0	BA
Aroclor 1242	47345	0	BA
Aroclor 1242	47345	0	BA
Aroclor 1248	985199	991973	BA
Aroclor 1248	985199	991973	BA
Aroclor 1248	985199	991973	BA
Aroclor 1248	985199	991973	BA
Aroclor 1248	985199	991973	BA
Aroclor 1254	772453	806643	BA
Aroclor 1254	772453	806643	BA
Aroclor 1254	772453	806643	BA
Aroclor 1254	772453	806643	BA
Aroclor 1254	772453	806643	BA
Aroclor 1260	854456	0	CO
Aroclor 1260	854456	0	CO
Aroclor 1260	854456	0	CO
Aroclor 1260	854456	0	CO
Aroclor 1260	854456	0	CO
Tetrachloro-m-xylene	4997240	5012950	BA
Decachlorobiphenyl	5005750	5005750	

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SAMPLE NO.

ND1-170613-01-BB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151616002
Date Analyzed: 03/27/2018 18:24
Lab File ID: 032718.B\032718021.D
Initial wt/vol: 10.0303 Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	1530	
11097-69-1	PCB-1254 (Aroclor 1254)	953	
11096-82-5	PCB-1260 (Aroclor 1260)	318	J
1336-36-3	PCB, Total	2800	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718021.D
Lab Smp Id: 40151616002 Client Smp ID: ND1-170613-01-BB-09
Inj Date : 27-MAR-2018 18:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616002 x10,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	11633	8041	0.691	0.03		
2.410	18648	16494	0.885	0.05		
2.485	1133475	1094215	0.965	3.58	$ 2 Tetrachloro-m-xylene	
2.853	14932	10912	0.731	0.04		
3.055	20015	17904	0.895	0.06		
3.320	25432	22920	0.901	0.08		
3.345	17880	15782	0.883	0.05		
3.434	89510	82218	0.919	0.28		
3.520	144935	133585	0.922	0.45		
3.648	30368	25607	0.843	0.09		
3.732	136457	117639	0.862	0.43		
3.827	779433	516924	0.663	2.46		
3.939	43842	32733	0.747	0.13		
3.994	158300	150911	0.953	0.50		
4.057	41257	36472	0.884	0.13		
4.137	23023	13097	0.569	0.07		
4.214	613521	542907	0.885	1.93		
4.261	988184	954127	0.966	3.12	6 Aroclor 1248	BA
4.292	2076559	1773611	0.854	7.04		
4.351	16644	14982	0.900	0.05		
4.418	446164	427342	0.958	1.41		
4.452	283227	254209	0.898	0.89		
4.545	975878	918380	0.941	3.08	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.588	143416	135403	0.944	0.45	
4.618	78334	68296	0.872	0.24	
4.679	79724	68412	0.858	0.25	
4.737	134538	117725	0.875	0.42	
4.768	279708	261108	0.934	0.88	
4.813	790767	760431	0.962	2.50	6 Aroclor 1248
4.848	379676	357215	0.941	1.20	
4.878	1611445	1074073	0.667	5.09	6 Aroclor 1248
4.957	265702	225511	0.849	0.84	
5.037	606347	556531	0.918	1.91	6 Aroclor 1248
5.100	688550	587427	0.853	2.17	
5.160	850797	733979	0.863	2.68	7 Aroclor 1254
5.212	771117	661638	0.858	2.43	
5.284	133635	128579	0.962	0.42	
5.307	218156	181101	0.830	0.68	
5.363	304493	263887	0.867	0.96	
5.406	769379	688110	0.894	2.43	7 Aroclor 1254
5.445	444651	375189	0.844	1.40	
5.479	85354	81127	0.950	0.26	
5.510	1431550	1249603	0.873	4.52	7 Aroclor 1254
5.577	74459	68492	0.920	0.23	
5.604	174726	149070	0.853	0.55	
5.675	283347	269933	0.953	0.89	
5.710	242702	204348	0.842	0.76	
5.742	398453	294390	0.739	1.25	
5.790	1785634	1375528	0.770	5.64	
5.884	208601	154099	0.739	0.65	
5.931	177917	134376	0.755	0.56	
5.993	416845	380859	0.914	1.31	
6.026	837921	709586	0.847	2.64	7 Aroclor 1254
6.056	701379	612110	0.873	2.21	
6.169	273094	180844	0.662	0.86	
6.229	110117	120101	1.091	0.34	
6.242	181669	143656	0.791	0.57	
6.301	1680967	1332449	0.793	5.31	7 Aroclor 1254
6.332	178402	151130	0.847	0.56	
6.373	77201	65250	0.845	0.24	
6.433	213423	173211	0.812	0.67	
6.510	719434	663977	0.923	2.27	
6.535	268829	240431	0.894	0.84	
6.561	129172	118422	0.917	0.40	
6.606	70235	55183	0.786	0.22	
6.660	42224	35765	0.847	0.13	
6.718	215632	186512	0.865	0.68	
6.759	240008	218708	0.911	0.75	
6.802	249206	225619	0.905	0.78	
6.840	120183	89117	0.742	0.37	
6.913	29559	28278	0.957	0.09	
6.942	91451	82900	0.906	0.28	
7.004	543671	484360	0.891	1.71	8 Aroclor 1260
7.037	53157	59871	1.126	0.16	
7.072	12568	12367	0.984	0.03	
7.120	24982	21794	0.872	0.07	
7.251	250438	230228	0.919	0.79	8 Aroclor 1260
7.280	96688	79926	0.827	0.30	
7.389	247082	211805	0.857	0.78	
7.441	246181	216471	0.879	0.77	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.553	18189	16291	0.896	0.05	
7.689	62507	56073	0.897	0.19	
7.728	56994	47246	0.829	0.18	
7.801	35137	22165	0.631	0.11	
7.900	168780	137528	0.815	0.53	8 Aroclor 1260
7.959	22807	16554	0.726	0.07	
8.050	31003	23483	0.757	0.09	
8.273	128160	113489	0.886	0.40	
8.377	9786	8151	0.833	0.03	
8.570	1224921	1050496	0.858	3.87	$ 12 Decachlorobiphenyl
8.730	12937	8438	0.652	0.04	
9.172	19887	13536	0.681	0.06	
9.464	14133	7500	0.531	0.04	
	31629453	27058473		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718021.D
Lab Smp Id: 40151616002 Client Smp ID: ND1-170613-01-BB-09
Inj Date : 27-MAR-2018 18:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616002 x10,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	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	1133474	0.00919	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	988184	0.42176	2100	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	975878	0.23513	1200	0.00- 20.00	98.75	BA
4.812	4.812	0.000	790766	0.38952	1900	0.00- 20.00	80.02	BA
4.878	4.879	-0.001	1611445	0.31989	1600	0.00- 20.00	163.07	BA
5.036	5.038	-0.002	606346	0.16897	840	0.00- 20.00	61.36	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	850796	0.16251	810	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	769379	0.17888	890	0.00- 20.00	90.43	BA
5.509	5.510	-0.001	1431550	0.18433	920	0.00- 20.00	168.26	BA
6.025	6.027	-0.002	837921	0.17207	860	0.00- 20.00	98.49	BA
6.301	6.299	0.002	1680966	0.25833	1300	0.00- 20.00	197.58	BA
Average of Peak Concentrations =					950			
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	543671	0.05429	270	0.00- 20.00	35.46	CO
7.250	7.251	-0.001	250438	0.05240	260	0.00- 20.00	14.90	CO
7.441	7.443	-0.002	246180	0.08445	420	0.00- 20.00	14.65	CO
7.900	7.901	-0.001	168780	0.06396	320	0.00- 20.00	10.04	CO
Average of Peak Concentrations =					320			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1224920	0.01118	56			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718021.D

Date : 27-MAR-2018 18:24

Client ID: ND1-170613-01-BB-09

Instrument: 40GCSJ.i

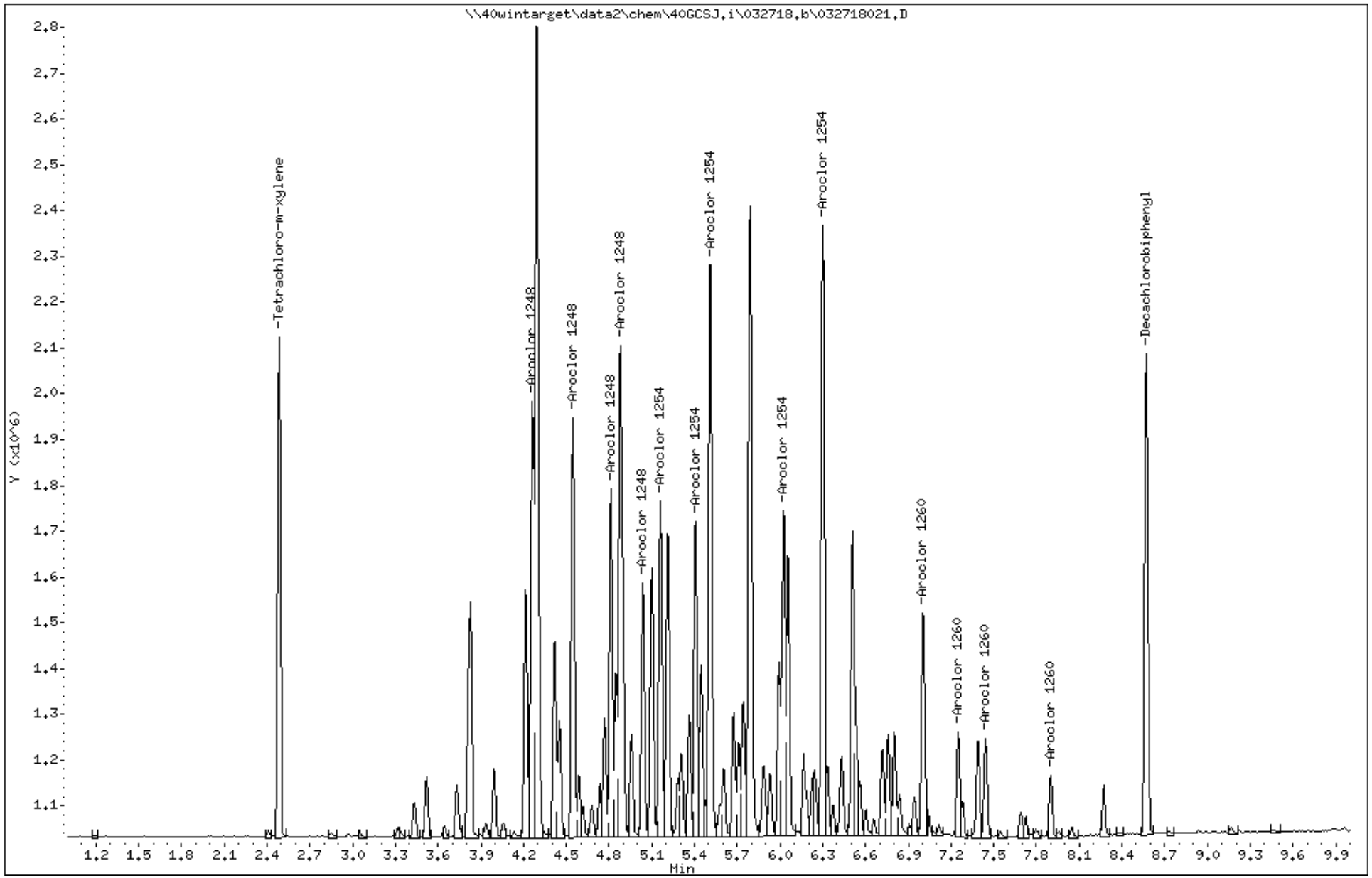
Sample Info: 40151616002 x10,

Volume Injected (uL): 1.0

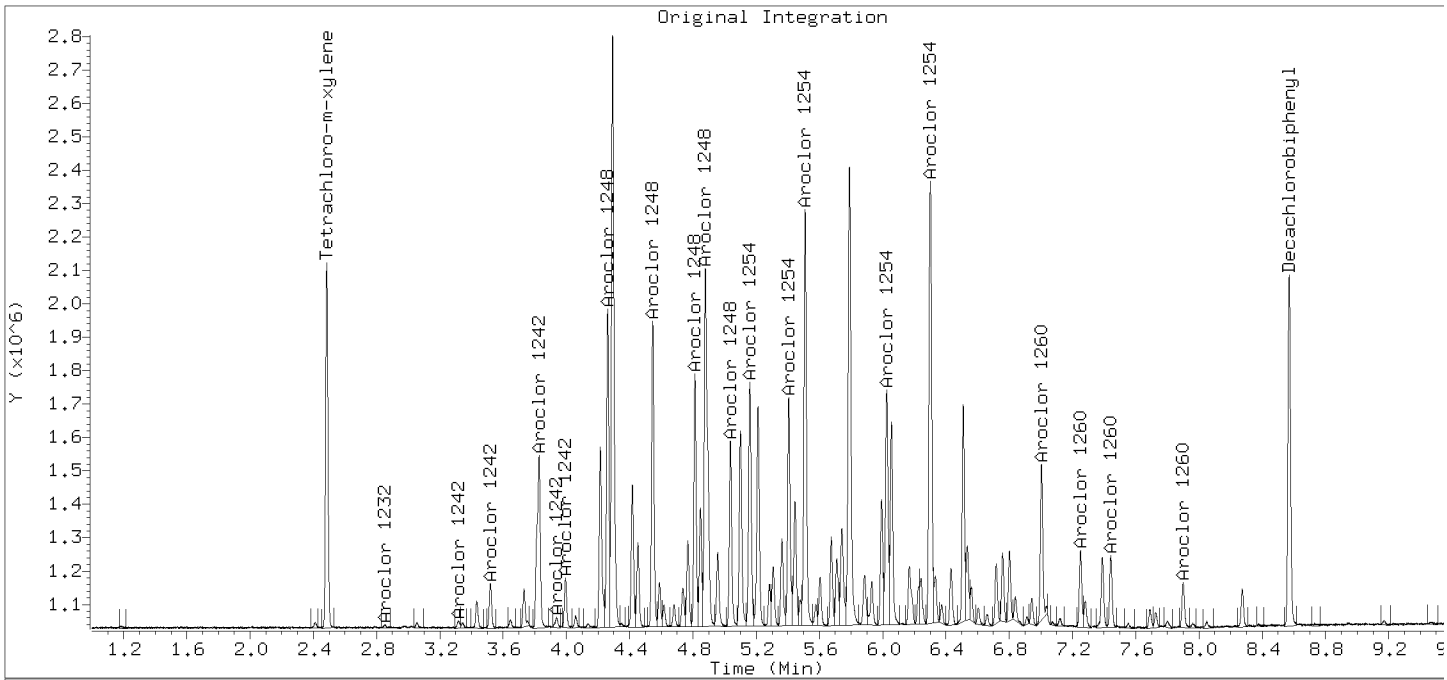
Operator: BLM

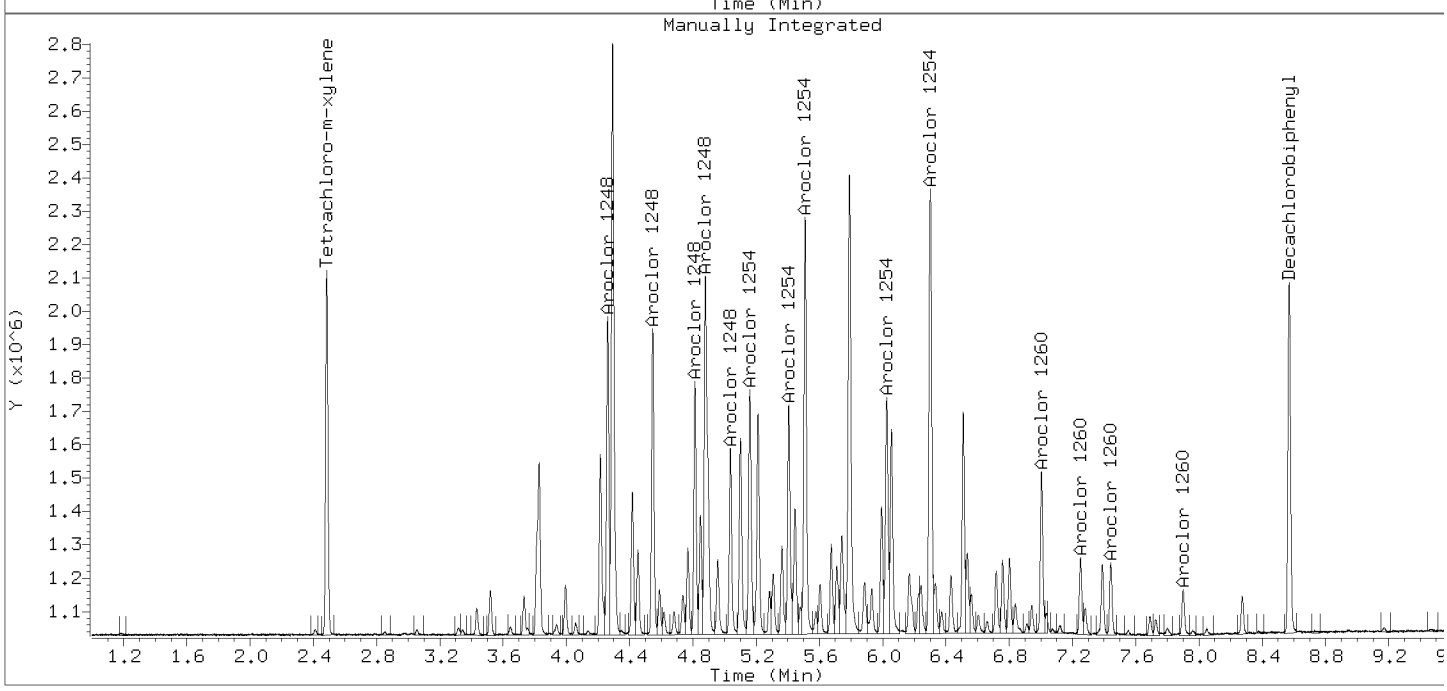
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 18:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	25431	0	
Aroclor 1016	25431	0	
Aroclor 1016	25431	0	
Aroclor 1016	25431	0	
Aroclor 1016	25431	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	14932	0	
Aroclor 1232	14932	0	
Aroclor 1232	14932	0	
Aroclor 1232	14932	0	

Aroclor 1232	14932	0	
Aroclor 1242	25431	0	
Aroclor 1242	25431	0	
Aroclor 1242	25431	0	
Aroclor 1242	25431	0	
Aroclor 1242	25431	0	
Aroclor 1248	981738	988184	BA
Aroclor 1248	981738	988184	BA
Aroclor 1248	981738	988184	BA
Aroclor 1248	981738	988184	BA
Aroclor 1248	981738	988184	BA
Aroclor 1254	839069	850796	BA
Aroclor 1254	839069	850796	BA
Aroclor 1254	839069	850796	BA
Aroclor 1254	839069	850796	BA
Aroclor 1254	839069	850796	BA
Aroclor 1260	1653188	0	CO
Aroclor 1260	1653188	0	CO
Aroclor 1260	1653188	0	CO
Aroclor 1260	1653188	0	CO
Aroclor 1260	1653188	0	CO
Tetrachloro-m-xylene	1133474	1133474	
Decachlorobiphenyl	1224920	1224920	

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SAMPLE NO.

ND1-170613-01-BB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151616003
Date Analyzed: 03/27/2018 18:40
Lab File ID: 032718.B\032718022.D
Initial wt/vol: 9.964 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.3	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	713	
11097-69-1	PCB-1254 (Aroclor 1254)	461	
11096-82-5	PCB-1260 (Aroclor 1260)	146	J
1336-36-3	PCB, Total	1320	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718022.D
Lab Smp Id: 40151616003 Client Smp ID: ND1-170613-01-BB-08
Inj Date : 27-MAR-2018 18:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616003 x3,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	59981	50691	0.845	0.10		
2.485	3679243	3517900	0.956	6.49	$ 2 Tetrachloro-m-xylene	
2.788	10390	10946	1.053	0.01		
2.851	30773	23304	0.757	0.05		
2.975	10043	9926	0.988	0.01		
3.018	11453	10349	0.904	0.02		
3.055	60602	54703	0.903	0.10		
3.318	56539	52770	0.933	0.09		
3.345	29622	28727	0.970	0.05		
3.434	284324	267361	0.940	0.50		
3.519	325710	312060	0.958	0.57		
3.646	71365	65660	0.920	0.12		
3.732	489236	445370	0.910	0.86		
3.813	578485	744728	1.287	1.02		
3.826	907997	834041	0.919	1.60		
3.938	138986	108812	0.783	0.24		
3.994	278221	261416	0.940	0.49		
4.059	77103	67436	0.875	0.13		
4.135	15743	18005	1.144	0.02		
4.167	12831	10729	0.836	0.02		
4.215	1314175	1129494	0.859	2.31		
4.261	1597115	1540424	0.965	2.81	6 Aroclor 1248	BA
4.292	3935593	3466204	0.881	7.43		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.351	38123	25840	0.678	0.06	
4.417	585248	548434	0.937	1.03	
4.452	375883	338941	0.902	0.66	
4.546	1687572	1537917	0.911	2.97	6 Aroclor 1248
4.588	316898	292438	0.923	0.55	
4.618	87509	75056	0.858	0.15	
4.680	156574	141371	0.903	0.27	
4.736	256056	221845	0.866	0.45	
4.768	500484	464808	0.929	0.88	
4.813	1141307	1078749	0.945	2.01	6 Aroclor 1248
4.847	442075	419499	0.949	0.78	
4.879	2473641	1398815	0.565	4.36	6 Aroclor 1248
4.956	506061	437125	0.864	0.89	
5.037	811470	762564	0.940	1.43	6 Aroclor 1248
5.101	1411398	1208075	0.856	2.49	
5.158	1283074	1068577	0.833	2.26	7 Aroclor 1254
5.211	1202669	1009217	0.839	2.12	
5.284	238849	244307	1.023	0.42	
5.307	439517	372734	0.848	0.77	
5.362	401439	351545	0.876	0.70	
5.406	1258651	1100879	0.875	2.22	7 Aroclor 1254
5.446	667070	588688	0.882	1.17	
5.478	248121	226242	0.912	0.43	
5.509	2263866	1908281	0.843	3.99	7 Aroclor 1254
5.577	152657	140470	0.920	0.26	
5.604	227561	193909	0.852	0.40	
5.675	969907	899436	0.927	1.71	
5.709	502154	431481	0.859	0.88	
5.743	673789	530247	0.787	1.18	
5.790	2695472	2042040	0.758	4.75	
5.884	388808	302518	0.778	0.68	
5.931	307824	253318	0.823	0.54	
5.993	754216	690354	0.915	1.33	
6.025	1305150	1078917	0.827	2.30	7 Aroclor 1254
6.055	1132960	955260	0.843	1.99	
6.169	328499	289162	0.880	0.57	
6.184	213739	252040	1.179	0.37	
6.226	379914	240481	0.633	0.67	
6.301	2812607	2308207	0.821	4.96	7 Aroclor 1254
6.331	242182	229543	0.948	0.42	
6.372	124052	96645	0.779	0.21	
6.432	399299	339092	0.849	0.70	
6.510	1182949	1042843	0.882	2.08	
6.536	428699	406620	0.948	0.75	
6.560	206674	187811	0.909	0.36	
6.605	90992	73781	0.811	0.16	
6.661	64166	58673	0.914	0.11	
6.718	378876	328168	0.866	0.66	
6.757	433830	380681	0.877	0.76	
6.800	392250	339907	0.867	0.69	
6.839	186388	145478	0.781	0.32	
6.911	48135	48793	1.014	0.08	
6.941	148071	134832	0.911	0.26	
7.005	820026	747864	0.912	1.44	8 Aroclor 1260
7.034	101377	96338	0.950	0.17	
7.074	15259	14058	0.921	0.02	
7.121	44424	40849	0.920	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.251	418871	375182	0.896	0.73	8 Aroclor 1260
7.282	152671	128475	0.842	0.26	
7.389	396320	335607	0.847	0.69	
7.442	383844	326844	0.852	0.67	8 Aroclor 1260
7.551	19652	19177	0.976	0.03	
7.689	103434	94924	0.918	0.18	
7.726	100620	75846	0.754	0.17	
7.800	54193	35162	0.649	0.09	
7.900	230382	199809	0.867	0.40	8 Aroclor 1260
7.961	32057	21325	0.665	0.05	
8.050	40214	34660	0.862	0.07	
8.274	193079	178104	0.922	0.34	
8.376	12374	10327	0.835	0.02	
8.570	3538811	3041239	0.859	6.24	$ 12 Decachlorobiphenyl
9.167	30027	20832	0.694	0.05	
9.470	18718	12072	0.645	0.03	
9.959	20654	12728	0.616	0.03	
	56667911	49095132		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718022.D
Lab Smp Id: 40151616003 Client Smp ID: ND1-170613-01-BB-08
Inj Date : 27-MAR-2018 18:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616003 x3,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	3679243	0.02984		45		

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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	1597114	0.68166	1000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1687572	0.40661	610	0.00- 20.00	105.66	BA
4.812	4.812	0.000	1141306	0.56220	850	0.00- 20.00	71.46	BA
4.878	4.879	-0.001	2473641	0.49105	740	0.00- 20.00	154.88	BA
5.036	5.038	-0.002	811469	0.22613	340	0.00- 20.00	50.81	BA
Average of Peak Concentrations =					710			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1283073	0.24508	370	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1258651	0.29264	440	0.00- 20.00	98.10	BA
5.508	5.510	-0.002	2263865	0.29151	440	0.00- 20.00	176.44	BA
6.024	6.027	-0.003	1305149	0.26802	400	0.00- 20.00	101.72	BA
6.300	6.299	0.001	2812607	0.43224	650	0.00- 20.00	219.21	BA
Average of Peak Concentrations =					460			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	820026	0.08188	120	0.00- 20.00	29.16	BA
7.250	7.251	-0.001	418871	0.08763	130	0.00- 20.00	14.89	BA
7.441	7.443	-0.002	383844	0.13167	200	0.00- 20.00	13.65	BA
7.899	7.901	-0.002	230381	0.08731	130	0.00- 20.00	8.19	BA
Average of Peak Concentrations =					150			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3538811	0.03230	49			

QC Flag Legend

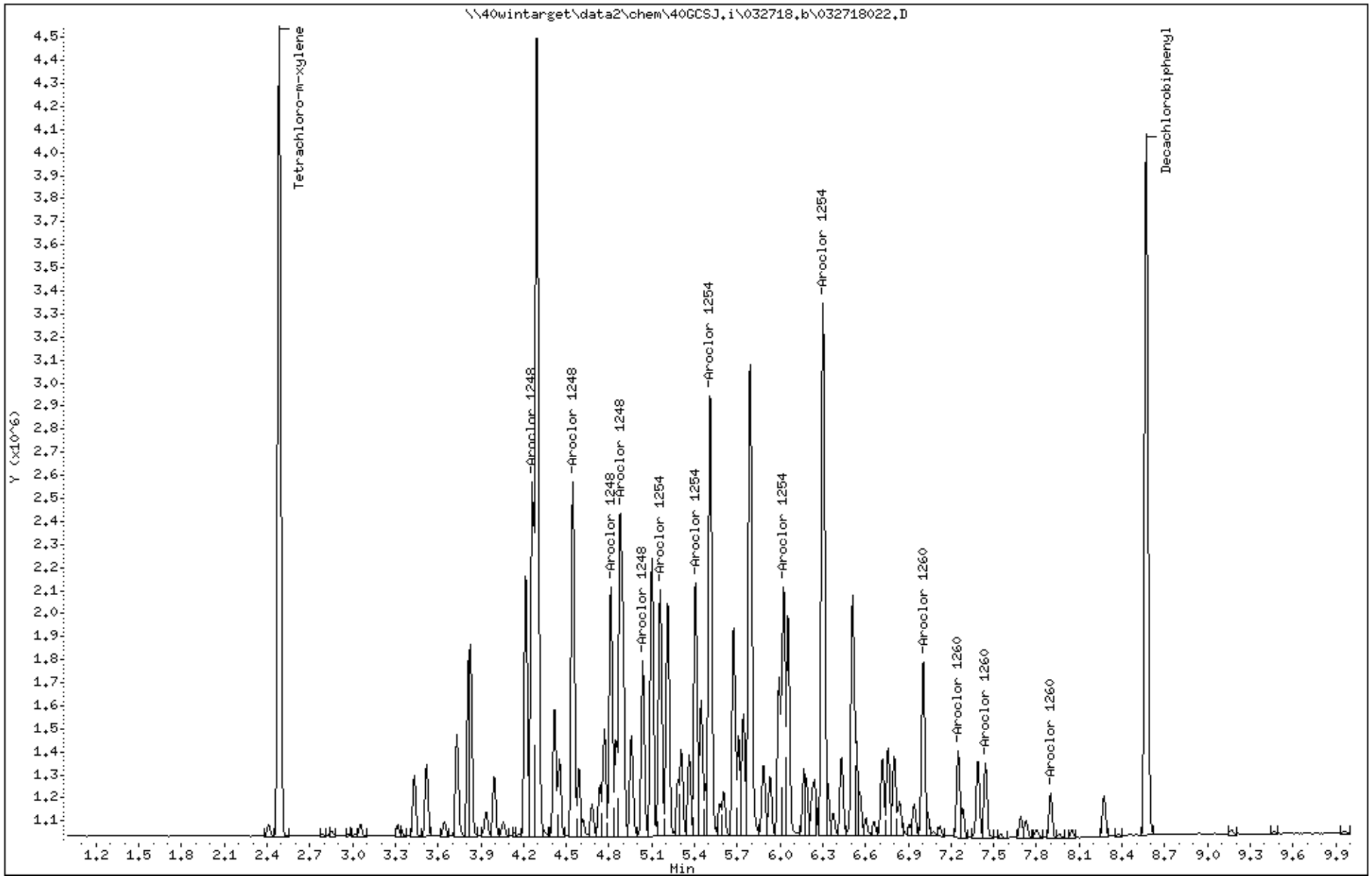
M - Compound response manually integrated.

Review Codes Legend

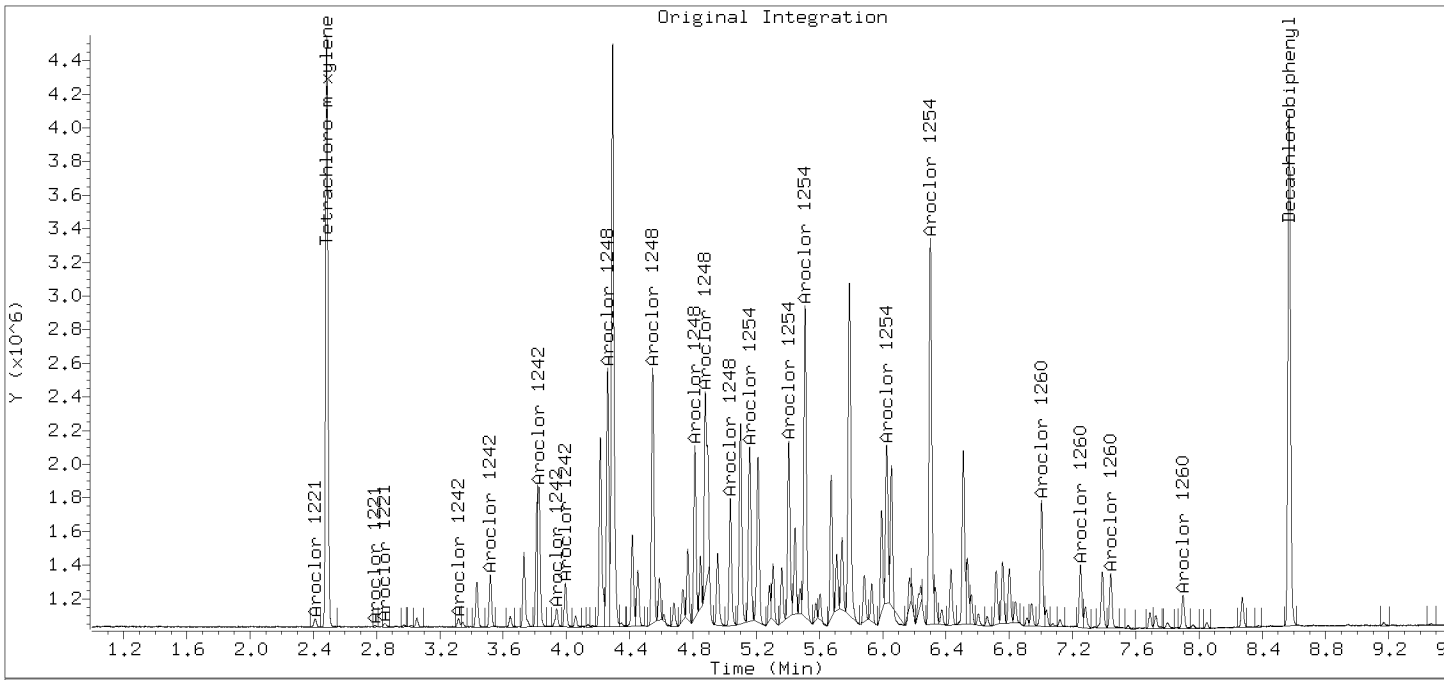
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

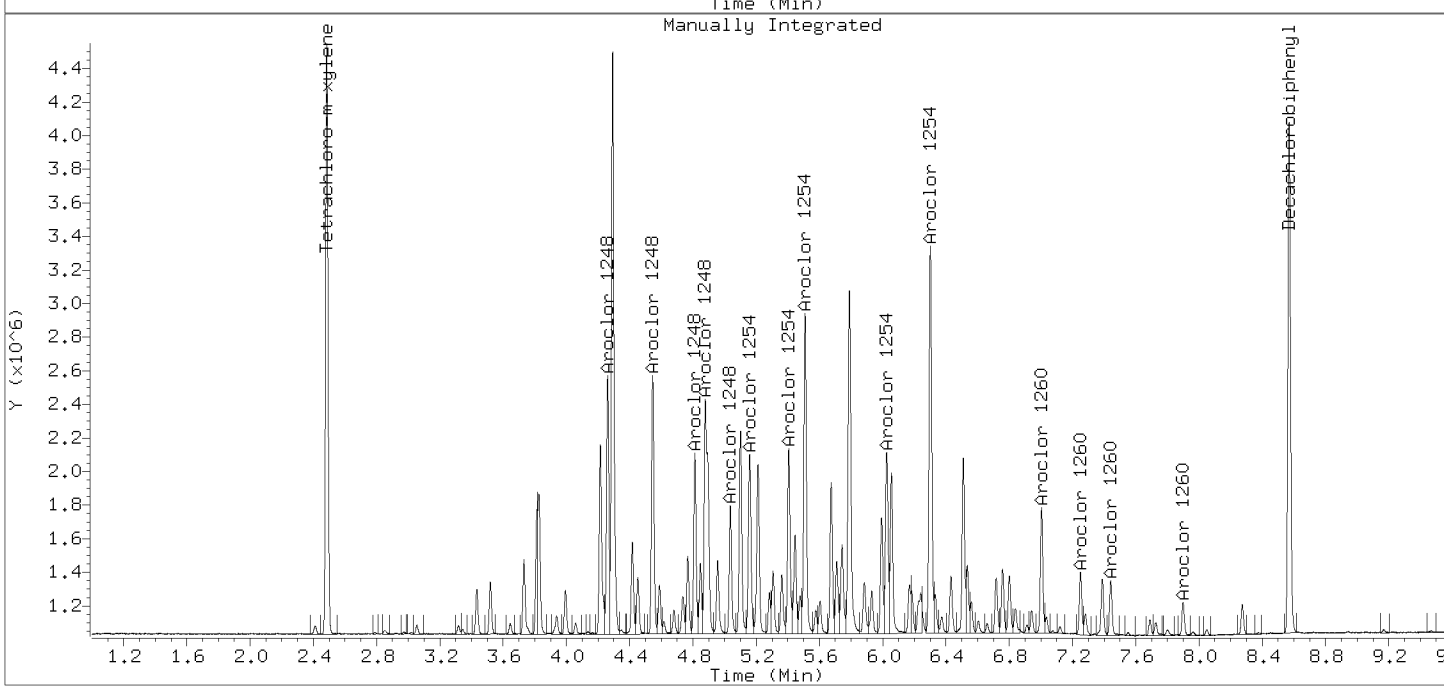
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718022.D
Date : 27-MAR-2018 18:40
Client ID: ND1-170613-01-BB-08
Sample Info: 40151616003 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 18:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	56539	0	
Aroclor 1016	56539	0	
Aroclor 1016	56539	0	
Aroclor 1016	56539	0	
Aroclor 1016	56539	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30772	0	
Aroclor 1232	30772	0	
Aroclor 1232	30772	0	
Aroclor 1232	30772	0	

Aroclor 1232	30772	0	
Aroclor 1242	56539	0	
Aroclor 1242	56539	0	
Aroclor 1242	56539	0	
Aroclor 1242	56539	0	
Aroclor 1242	56539	0	
Aroclor 1248	1587944	1597114	BA
Aroclor 1248	1587944	1597114	BA
Aroclor 1248	1587944	1597114	BA
Aroclor 1248	1587944	1597114	BA
Aroclor 1248	1587944	1597114	BA
Aroclor 1254	1180835	1283073	BA
Aroclor 1254	1180835	1283073	BA
Aroclor 1254	1180835	1283073	BA
Aroclor 1254	1180835	1283073	BA
Aroclor 1254	1180835	1283073	BA
Aroclor 1260	2777382	0	BA
Aroclor 1260	2777382	0	BA
Aroclor 1260	2777382	0	BA
Aroclor 1260	2777382	0	BA
Aroclor 1260	2777382	0	BA
Tetrachloro-m-xylene	3679243	3679243	
Decachlorobiphenyl	3538811	3538811	

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SAMPLE NO.

ND1-170613-01-BB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 40151616004

Date Analyzed: 03/27/2018 18:56

Lab File ID: 032718.B\032718023.D

Initial wt/vol: 9.9633 g Final wt/vol: 5 mL Dilution: 5

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	949	
11097-69-1	PCB-1254 (Aroclor 1254)	607	
11096-82-5	PCB-1260 (Aroclor 1260)	194	J
1336-36-3	PCB, Total	1750	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718023.D
Lab Smp Id: 40151616004 Client Smp ID: ND1-170613-01-BB-07
Inj Date : 27-MAR-2018 18:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616004 x5,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.963	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	42499	34350	0.808	0.09		
2.485	2449505	2372560	0.969	5.62	$ 2 Tetrachloro-m-xylene	
2.775	9273	5827	0.628	0.02		
2.852	29734	22071	0.742	0.06		
2.977	21266	14917	0.701	0.04		
3.019	12372	11808	0.954	0.02		
3.056	27095	24560	0.906	0.06		
3.318	34554	31532	0.913	0.07		
3.342	26056	23287	0.894	0.05		
3.434	131871	128848	0.977	0.30		
3.519	225611	213635	0.947	0.51		
3.646	49636	46833	0.944	0.11		
3.732	267691	228927	0.855	0.61		
3.826	1117387	684046	0.612	2.56		
3.941	61339	38878	0.634	0.14		
3.994	181005	167411	0.925	0.41		
4.058	52761	47099	0.893	0.12		
4.134	18146	12972	0.715	0.04		
4.215	728720	603751	0.829	1.67		
4.261	1387651	1327126	0.956	3.18	6 Aroclor 1248	BA
4.292	2934081	2506122	0.854	7.20		
4.346	39626	28036	0.708	0.09		
4.417	450509	424855	0.943	1.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	314399	286850	0.912	0.72	
4.546	1344168	1240442	0.923	3.08	6 Aroclor 1248
4.588	275090	263443	0.958	0.63	
4.617	101686	88235	0.868	0.23	
4.680	146465	127280	0.869	0.33	
4.737	185568	166787	0.899	0.42	
4.767	524307	502105	0.958	1.20	
4.812	876445	849834	0.970	2.01	6 Aroclor 1248
4.848	299237	282740	0.945	0.68	
4.879	1900694	1090758	0.574	4.36	6 Aroclor 1248
4.956	441219	381128	0.864	1.01	
5.037	595863	549123	0.922	1.36	6 Aroclor 1248
5.101	1184266	1050597	0.887	2.71	
5.159	1141811	947639	0.830	2.62	7 Aroclor 1254
5.212	1028979	862420	0.838	2.36	
5.282	199411	193863	0.972	0.45	
5.306	402449	341964	0.850	0.92	
5.362	304030	270915	0.891	0.69	
5.406	971751	891350	0.917	2.23	7 Aroclor 1254
5.447	553448	451762	0.816	1.27	
5.478	142632	137157	0.962	0.32	
5.509	1705512	1467929	0.861	3.91	7 Aroclor 1254
5.577	133617	119667	0.896	0.30	
5.603	183231	157650	0.860	0.42	
5.674	591429	546115	0.923	1.35	
5.709	378856	330476	0.872	0.86	
5.742	508248	396028	0.779	1.16	
5.789	2114631	1595626	0.755	4.85	
5.884	302958	238687	0.788	0.69	
5.931	281758	245099	0.870	0.64	
5.993	661770	612370	0.925	1.51	
6.025	944022	817509	0.866	2.16	7 Aroclor 1254
6.055	1027347	895545	0.872	2.35	
6.168	346765	210947	0.608	0.79	
6.228	118949	150801	1.268	0.27	
6.240	250828	189396	0.755	0.57	
6.301	2286946	1868540	0.817	5.25	7 Aroclor 1254
6.333	192855	173166	0.898	0.44	
6.373	89728	70125	0.782	0.20	
6.431	355740	315517	0.887	0.81	
6.510	943458	860860	0.912	2.16	
6.534	308116	285281	0.926	0.70	
6.561	173825	150814	0.868	0.39	
6.605	69503	61521	0.885	0.15	
6.659	52435	47533	0.907	0.12	
6.717	280493	243166	0.867	0.64	
6.758	348526	314906	0.904	0.80	
6.801	296671	260015	0.876	0.68	
6.839	166244	126706	0.762	0.38	
6.912	40149	39742	0.990	0.09	
6.942	130630	115732	0.886	0.29	
7.004	634898	587483	0.925	1.45	8 Aroclor 1260
7.035	82038	73904	0.901	0.18	
7.075	12441	12974	1.043	0.02	
7.122	36991	32555	0.880	0.08	
7.251	310803	281722	0.906	0.71	8 Aroclor 1260
7.280	126612	104482	0.825	0.29	

Data File: ...wintarget\data2\chem\40GCSJ.i\032718.b\032718023.D Page 3
Report Date: 04-Apr-2018 12:49

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	323492	270821	0.837	0.74	
7.441	310881	268112	0.862	0.71	8 Aroclor 1260
7.554	15601	16772	1.075	0.03	
7.690	88324	78159	0.885	0.20	
7.726	76373	67168	0.879	0.17	
7.799	49614	28932	0.583	0.11	
7.899	196309	173181	0.882	0.45	8 Aroclor 1260
7.961	38726	20421	0.527	0.08	
8.051	48223	35266	0.731	0.11	
8.273	175662	159594	0.909	0.40	
8.373	10770	9761	0.906	0.02	
8.450	10463	8010	0.766	0.02	
8.571	2448771	2138192	0.873	5.62	$ 12 Decachlorobiphenyl
8.944	11875	8710	0.733	0.02	
9.170	26146	20443	0.782	0.06	
	43552559	37279974		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718023.D
Lab Smp Id: 40151616004 Client Smp ID: ND1-170613-01-BB-07
Inj Date : 27-MAR-2018 18:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616004 x5,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.963	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	2449504	0.01987	50			
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	1387651	0.59226	1500	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1344168	0.32387	810	0.00- 20.00	96.87	BA
4.812	4.812	0.000	876444	0.43173	1100	0.00- 20.00	63.16	BA
4.879	4.879	0.000	1900694	0.37731	950	0.00- 20.00	136.97	BA
5.036	5.038	-0.002	595862	0.16605	420	0.00- 20.00	42.94	BA
Average of Peak Concentrations =					950			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1141811	0.21810	550	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	971750	0.22593	570	0.00- 20.00	85.11	BA
5.509	5.510	-0.001	1705512	0.21961	550	0.00- 20.00	149.37	BA
6.024	6.027	-0.003	944022	0.19386	490	0.00- 20.00	82.68	BA
6.301	6.299	0.002	2286946	0.35145	880	0.00- 20.00	200.29	BA
Average of Peak Concentrations =					610			
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	634898	0.06340	160	0.00- 20.00	27.76	BA
7.251	7.251	0.000	310803	0.06502	160	0.00- 20.00	13.59	BA
7.441	7.443	-0.002	310880	0.10664	270	0.00- 20.00	13.59	BA
7.899	7.901	-0.002	196308	0.07439	190	0.00- 20.00	8.58	BA
Average of Peak Concentrations =					190			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2448771	0.02235	56			

QC Flag Legend

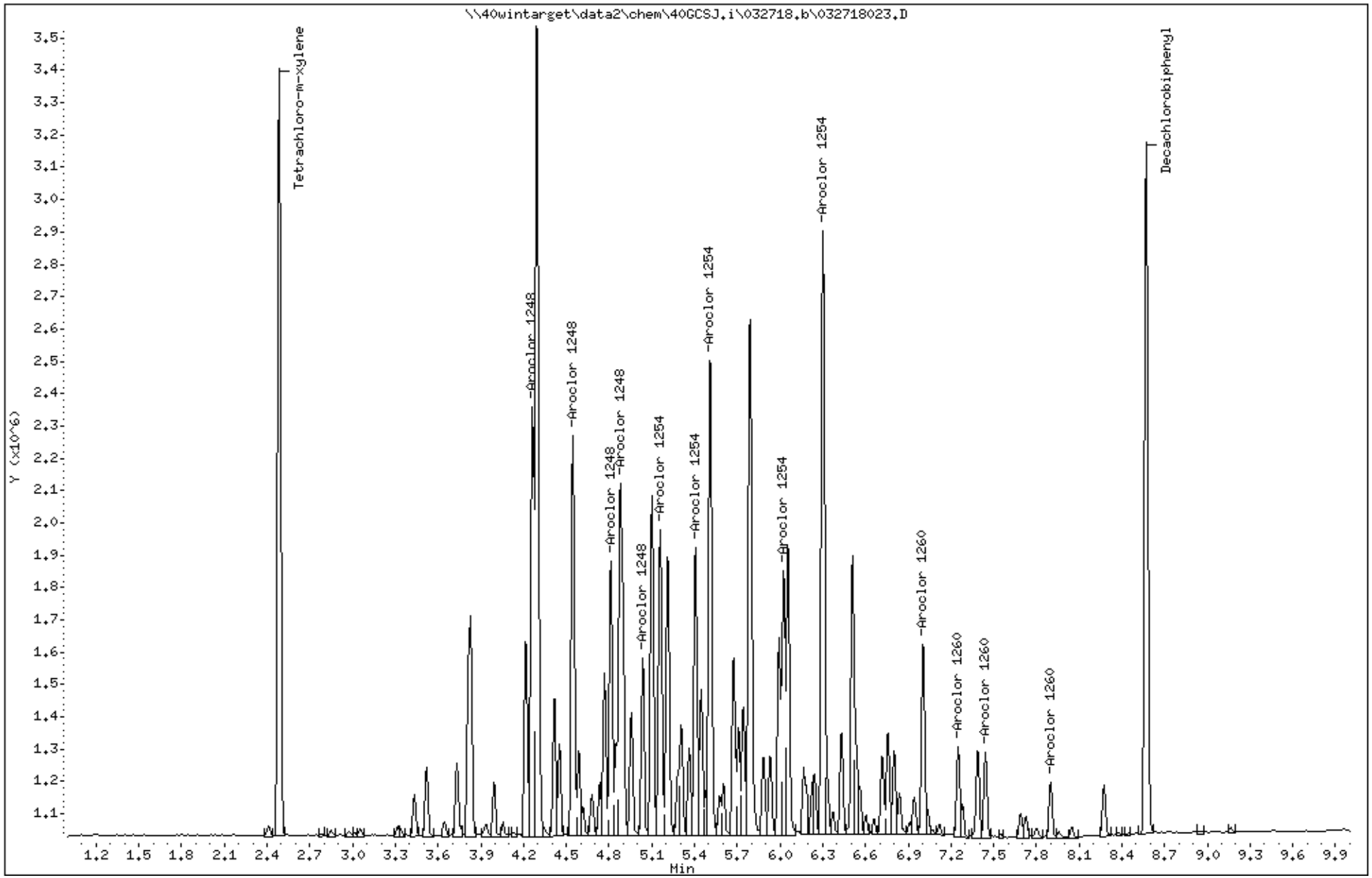
M - Compound response manually integrated.

Review Codes Legend

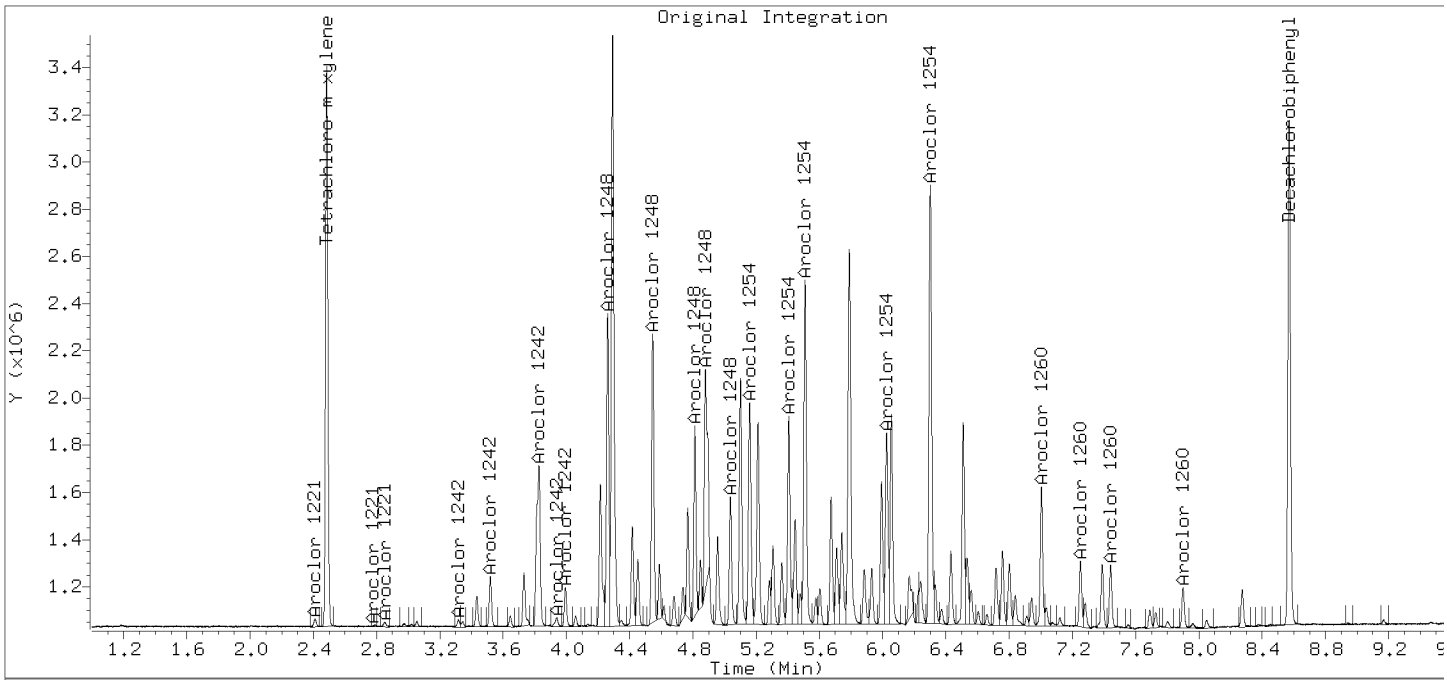
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

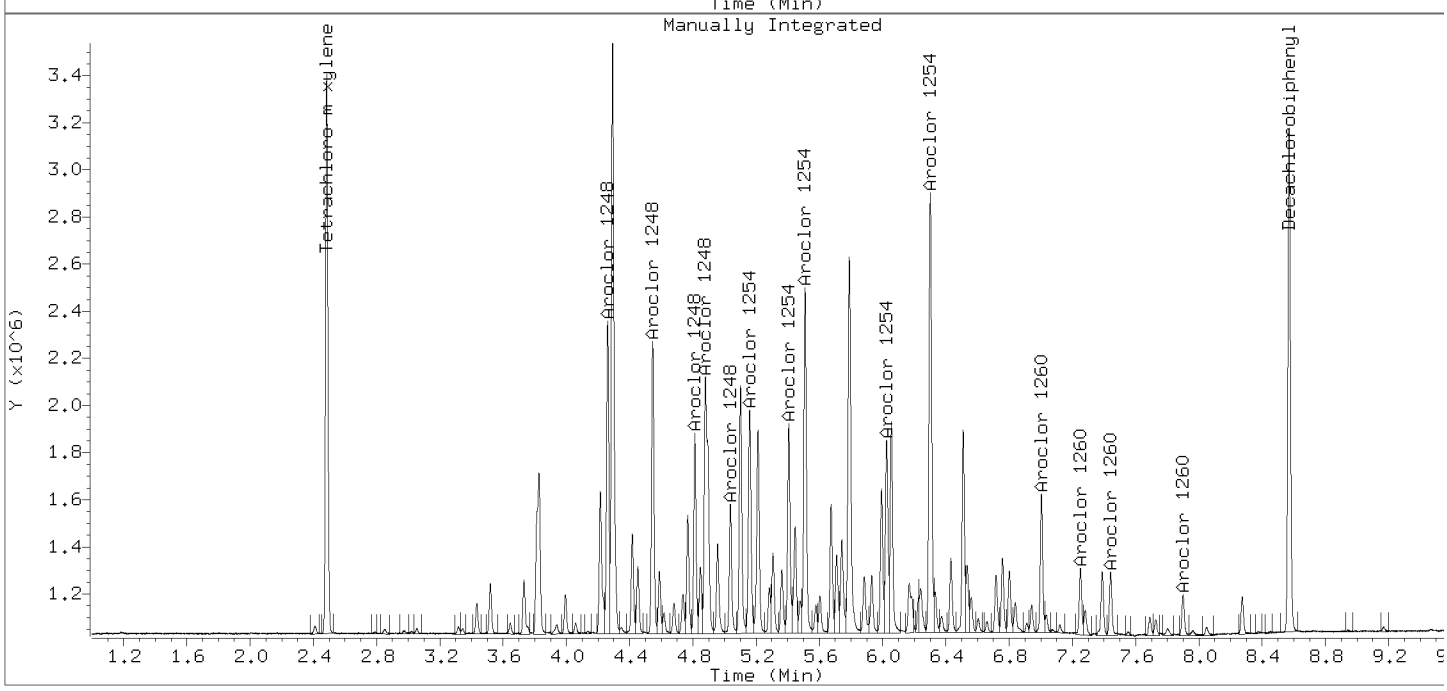
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718023.D
Date : 27-MAR-2018 18:56
Client ID: ND1-170613-01-BB-07
Sample Info: 40151616004 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 18:56 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	34554	0	
Aroclor 1016	34554	0	
Aroclor 1016	34554	0	
Aroclor 1016	34554	0	
Aroclor 1016	34554	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	29734	0	
Aroclor 1232	29734	0	
Aroclor 1232	29734	0	
Aroclor 1232	29734	0	

Aroclor 1232	29734	0	
Aroclor 1242	34554	0	
Aroclor 1242	34554	0	
Aroclor 1242	34554	0	
Aroclor 1242	34554	0	
Aroclor 1242	34554	0	
Aroclor 1248	1380661	1387651	BA
Aroclor 1248	1380661	1387651	BA
Aroclor 1248	1380661	1387651	BA
Aroclor 1248	1380661	1387651	BA
Aroclor 1248	1380661	1387651	BA
Aroclor 1254	1111280	1141811	BA
Aroclor 1254	1111280	1141811	BA
Aroclor 1254	1111280	1141811	BA
Aroclor 1254	1111280	1141811	BA
Aroclor 1254	1111280	1141811	BA
Aroclor 1260	2255807	0	BA
Aroclor 1260	2255807	0	BA
Aroclor 1260	2255807	0	BA
Aroclor 1260	2255807	0	BA
Aroclor 1260	2255807	0	BA
Tetrachloro-m-xylene	2449504	2449504	
Decachlorobiphenyl	2448771	2448771	

==========

SAMPLE NO.

ND1-170613-01-BB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151616005
Date Analyzed: 03/27/2018 19:12
Lab File ID: 032718.B\032718024.D
Initial wt/vol: 9.9603 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)	101	
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)	267	
11097-69-1	PCB-1254 (Aroclor 1254)	147	
11096-82-5	PCB-1260 (Aroclor 1260)	40.3	J
1336-36-3	PCB, Total	555	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718024.D
Lab Smp Id: 40151616005 Client Smp ID: ND1-170613-01-BB-06
Inj Date : 27-MAR-2018 19:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616005,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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	9.960	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.031	15308	11267	0.736	0.02		
1.426	11328	10339	0.913	0.01		
1.538	11635	10025	0.862	0.01		
1.804	39858	32533	0.816	0.05	1 Aroclor 1221	BA
2.006	19108	14077	0.737	0.02		
2.198	80026	41160	0.514	0.11		
2.290	45883	24626	0.537	0.06		
2.411	493476	418297	0.848	0.69	1 Aroclor 1221	BA
2.485	11492290	11227980	0.977	16.78	$ 2 Tetrachloro-m-xylene	BA
2.684	13771	14367	1.043	0.01	1 Aroclor 1221	BA
2.787	39988	27381	0.685	0.05	1 Aroclor 1221	BA
2.853	63586	48947	0.770	0.08	1 Aroclor 1221	BA
2.973	59285	36468	0.615	0.08		
3.020	36186	32687	0.903	0.05		
3.055	262418	246887	0.941	0.37		
3.318	94409	90151	0.955	0.13		
3.345	68472	62457	0.912	0.09		
3.433	416898	396983	0.952	0.58		
3.519	332290	308455	0.928	0.46		
3.645	80910	71092	0.879	0.11		
3.732	416050	377027	0.906	0.58		
3.826	1817208	1178542	0.649	2.56		
3.937	111485	73904	0.663	0.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	273801	257655	0.941	0.38	
4.057	131970	114315	0.866	0.18	
4.136	37817	34973	0.925	0.05	
4.215	1102221	954350	0.866	1.55	
4.262	1509082	1428243	0.946	2.13	6 Aroclor 1248
4.292	3403371	2909214	0.855	4.80	
4.349	41595	31728	0.763	0.05	
4.416	809695	787986	0.973	1.14	
4.451	450702	407780	0.905	0.63	
4.546	1666824	1564749	0.939	2.35	6 Aroclor 1248
4.588	226116	208906	0.924	0.31	
4.616	119633	105906	0.885	0.16	
4.679	163435	146830	0.898	0.23	
4.736	208486	168799	0.810	0.29	
4.768	517769	500173	0.966	0.73	
4.812	1494243	1417869	0.949	2.11	6 Aroclor 1248
4.847	526618	502016	0.953	0.74	
4.879	2934339	1889486	0.644	4.14	6 Aroclor 1248
4.957	421831	337823	0.801	0.59	
5.037	1060883	974674	0.919	1.49	6 Aroclor 1248
5.100	1287396	1101710	0.856	1.81	
5.160	1166987	976675	0.837	1.64	7 Aroclor 1254
5.212	1148175	1001167	0.872	1.62	
5.282	217843	210420	0.966	0.30	
5.307	427840	350681	0.820	0.60	
5.362	465768	396584	0.851	0.65	
5.406	1248367	1107527	0.887	1.76	7 Aroclor 1254
5.446	861420	729538	0.847	1.21	
5.478	183532	162863	0.887	0.25	
5.509	2099673	1809052	0.862	2.96	7 Aroclor 1254
5.577	109017	96991	0.890	0.15	
5.603	300245	254981	0.849	0.42	
5.674	712910	678347	0.952	1.00	
5.709	415686	341598	0.822	0.58	
5.742	584117	438093	0.750	0.82	
5.790	2617661	2025619	0.774	3.69	
5.884	353005	256410	0.726	0.49	
5.931	313769	235357	0.750	0.44	
5.993	648843	604920	0.932	0.91	
6.024	1453277	1219781	0.839	2.05	7 Aroclor 1254
6.054	933505	781584	0.837	1.31	
6.168	470799	267989	0.569	0.66	
6.226	162390	182281	1.122	0.22	
6.240	275581	214077	0.777	0.38	
6.300	2494606	1994067	0.799	3.52	7 Aroclor 1254
6.333	249241	227554	0.913	0.35	
6.373	132089	100412	0.760	0.18	
6.431	392763	322705	0.822	0.55	
6.509	930300	843906	0.907	1.31	
6.534	388659	367398	0.945	0.54	
6.560	184185	156555	0.850	0.26	
6.603	74440	61513	0.826	0.10	
6.660	62821	50459	0.803	0.08	
6.717	297164	247309	0.832	0.41	
6.759	371526	321674	0.866	0.52	
6.801	350004	308295	0.881	0.49	
6.838	185887	136925	0.737	0.26	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.910	43956	43204	0.983	0.06	
6.942	204916	181363	0.885	0.28	
7.004	639217	594572	0.930	0.90	8 Aroclor 1260
7.036	78532	70221	0.894	0.11	
7.120	45548	37684	0.827	0.06	
7.251	324186	280289	0.865	0.45	8 Aroclor 1260
7.280	144253	111761	0.775	0.20	
7.337	25965	19870	0.765	0.03	
7.388	336010	280871	0.836	0.47	
7.441	321024	283672	0.884	0.45	8 Aroclor 1260
7.486	29009	17135	0.591	0.04	
7.551	18052	15992	0.886	0.02	
7.690	82142	75643	0.921	0.11	
7.725	110000	92478	0.841	0.15	
7.804	85045	47837	0.562	0.12	
7.900	209020	175727	0.841	0.29	8 Aroclor 1260
7.962	39570	22360	0.565	0.05	
8.047	113109	99315	0.878	0.15	
8.274	224832	205382	0.913	0.31	
8.380	19200	13734	0.715	0.02	
8.570	9964382	8731982	0.876	14.07	$ 12 Decachlorobiphenyl
8.726	12810	12249	0.956	0.01	
9.052	9220	8215	0.891	0.01	
9.166	30745	27852	0.906	0.04	
9.961	12561	8180	0.651	0.01	
	70817094	61539732		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718024.D
Lab Smp Id: 40151616005 Client Smp ID: ND1-170613-01-BB-06
Inj Date : 27-MAR-2018 19:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616005,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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	9.960	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	39858	0.03828	19	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	493476	0.90076	450	0.00- 20.00	1238.09	BA
2.684	2.688	-0.004	13771	0.00995	5.0	0.00- 20.00	34.55	BA
2.786	2.789	-0.003	39988	0.03616	18	0.00- 20.00	100.33	BA
2.852	2.851	0.001	63586	0.01953	9.8	0.00- 20.00	159.53	BA
Average of Peak Concentrations =					100			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11492290	0.09321	47		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1509082	0.64409	320	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1666824	0.40161	200	0.00- 20.00	110.45	BA
4.811	4.812	-0.001	1494242	0.73605	370	0.00- 20.00	99.02	BA
4.878	4.879	-0.001	2934338	0.58251	290	0.00- 20.00	194.45	BA
5.036	5.038	-0.002	1060883	0.29563	150	0.00- 20.00	70.30	BA
		Average of Peak Concentrations =			270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1166986	0.22291	110	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1248367	0.29025	140	0.00- 20.00	106.97	BA
5.508	5.510	-0.002	2099673	0.27037	140	0.00- 20.00	179.92	BA
6.023	6.027	-0.004	1453277	0.29843	150	0.00- 20.00	124.53	BA
6.299	6.299	0.000	2494605	0.38337	190	0.00- 20.00	213.76	BA
		Average of Peak Concentrations =			150			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	639216	0.06383	32	0.00- 20.00	25.62	CO
7.250	7.251	-0.001	324185	0.06782	34	0.00- 20.00	13.00	CO
7.441	7.443	-0.002	321023	0.11012	55	0.00- 20.00	14.02	CO
7.899	7.901	-0.002	209020	0.07921	40	0.00- 20.00	8.38	CO
		Average of Peak Concentrations =			40			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9964382	0.09095	46			

QC Flag Legend

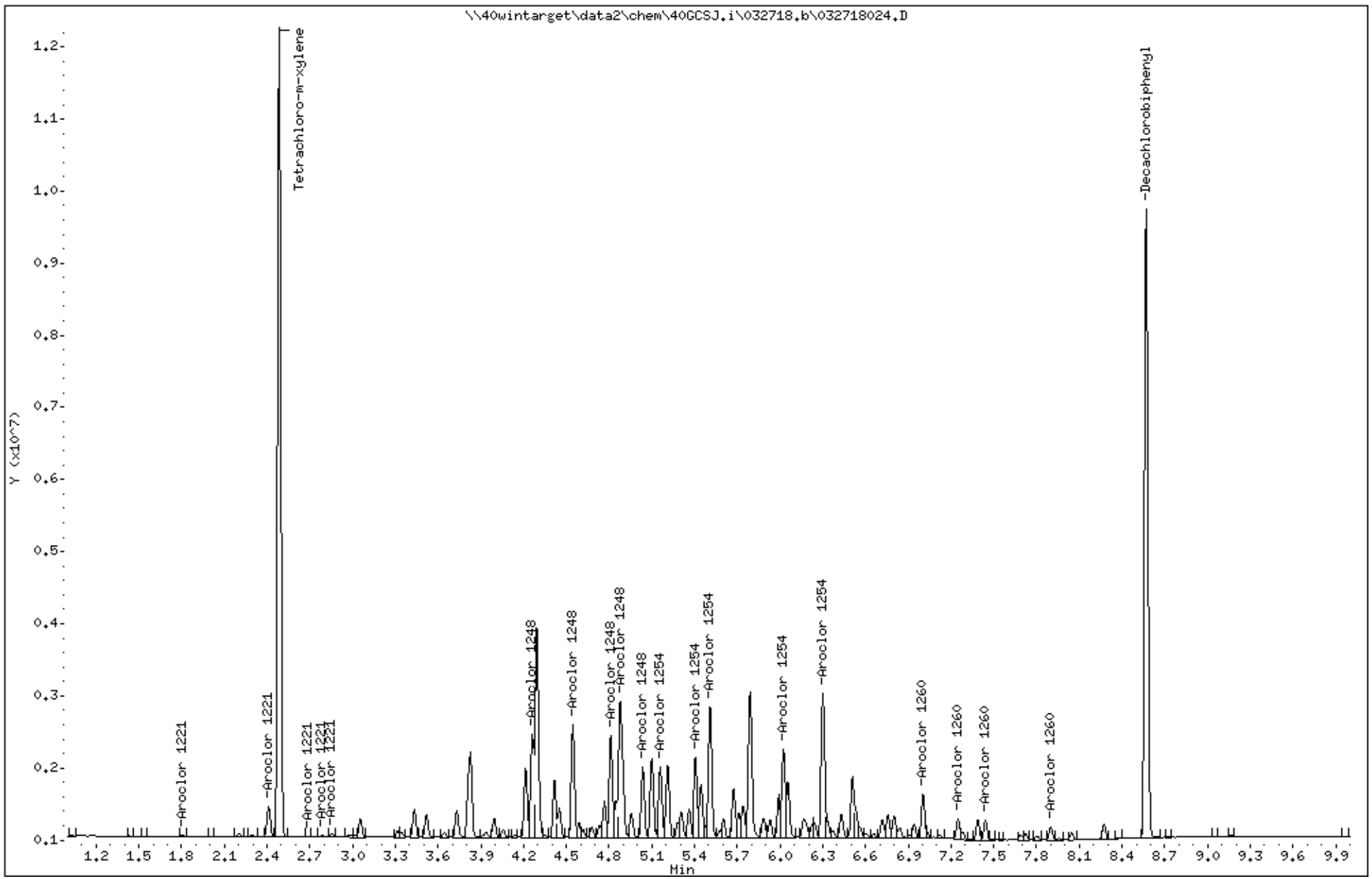
M - Compound response manually integrated.

Review Codes Legend

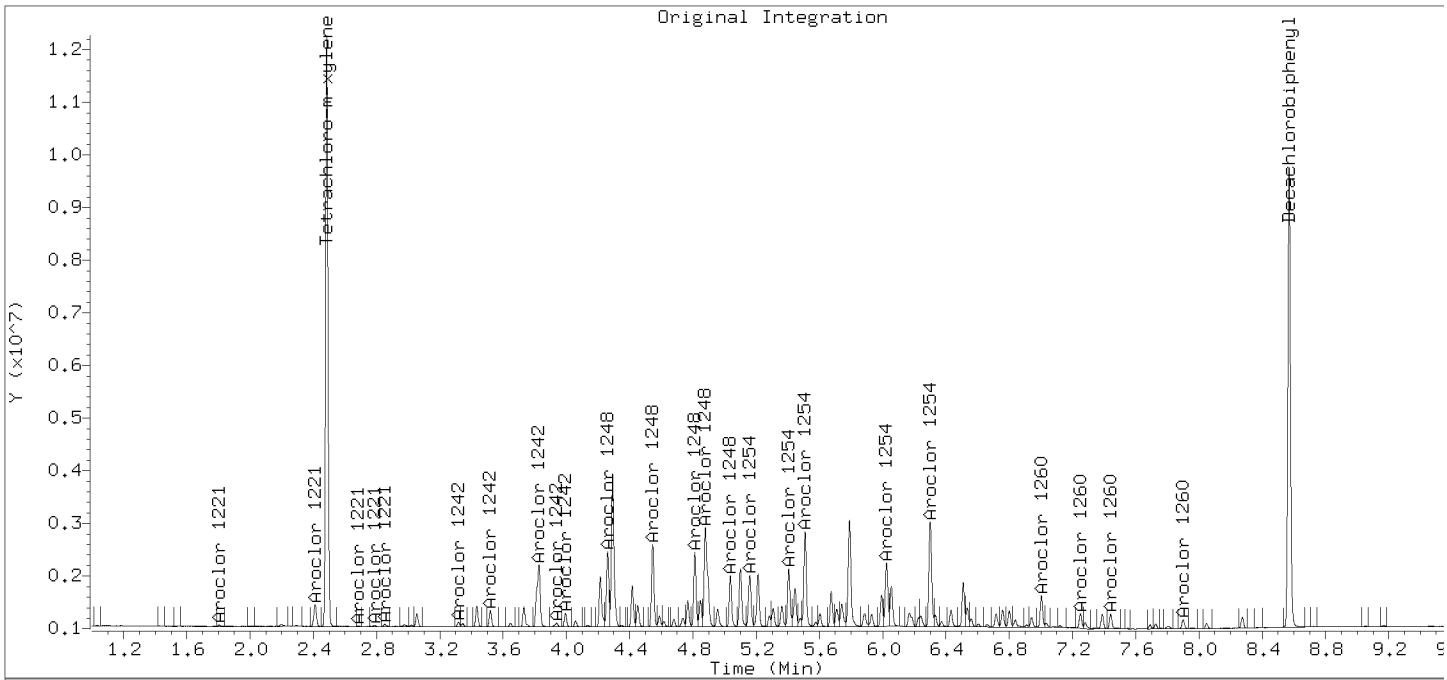
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

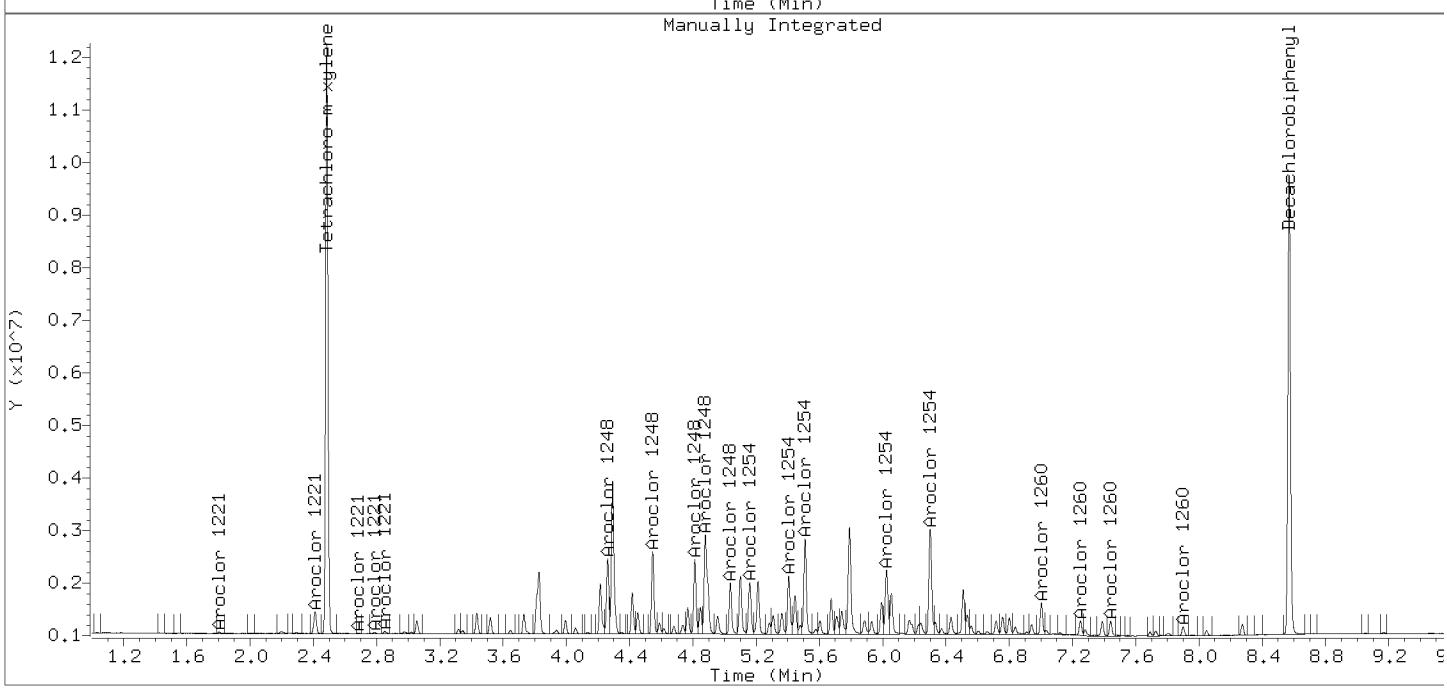
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718024.D
Date : 27-MAR-2018 19:12
Client ID: ND1-170613-01-BB-06
Sample Info: 40151616005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 19:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	94794	0	
Aroclor 1016	94794	0	
Aroclor 1016	94794	0	
Aroclor 1016	94794	0	
Aroclor 1016	94794	0	
Aroclor 1221	35234	39858	BA
Aroclor 1221	35234	39858	BA
Aroclor 1221	35234	39858	BA
Aroclor 1221	35234	39858	BA
Aroclor 1221	35234	39858	BA
Aroclor 1232	59944	0	
Aroclor 1232	59944	0	
Aroclor 1232	59944	0	
Aroclor 1232	59944	0	

Aroclor 1232	59944	0	
Aroclor 1242	94794	0	
Aroclor 1242	94794	0	
Aroclor 1242	94794	0	
Aroclor 1242	94794	0	
Aroclor 1242	94794	0	
Aroclor 1248	1496165	1509082	BA
Aroclor 1248	1496165	1509082	BA
Aroclor 1248	1496165	1509082	BA
Aroclor 1248	1496165	1509082	BA
Aroclor 1248	1496165	1509082	BA
Aroclor 1254	1141746	1166986	BA
Aroclor 1254	1141746	1166986	BA
Aroclor 1254	1141746	1166986	BA
Aroclor 1254	1141746	1166986	BA
Aroclor 1254	1141746	1166986	BA
Aroclor 1260	2473176	0	CO
Aroclor 1260	2473176	0	CO
Aroclor 1260	2473176	0	CO
Aroclor 1260	2473176	0	CO
Aroclor 1260	2473176	0	CO
Tetrachloro-m-xylene	11480911	11492290	BA
Decachlorobiphenyl	9964382	9964382	

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SAMPLE NO.

ND1-170613-01-BB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151616006
Date Analyzed: 03/27/2018 19:28
Lab File ID: 032718.B\032718025.D
Initial wt/vol: 10.0159 Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	1640	
11097-69-1	PCB-1254 (Aroclor 1254)	1080	
11096-82-5	PCB-1260 (Aroclor 1260)	362	J
1336-36-3	PCB, Total	3080	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718025.D
Lab Smp Id: 40151616006 Client Smp ID: ND1-170613-01-BB-05
Inj Date : 27-MAR-2018 19:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616006 x10,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	31997	26239	0.820	0.08		
2.484	1197126	1144756	0.956	3.32	$ 2 Tetrachloro-m-xylene	
2.793	13067	9486	0.726	0.03		
2.853	18364	14698	0.800	0.05		
2.974	10048	9735	0.969	0.02		
3.019	10367	9308	0.898	0.02		
3.053	28571	24468	0.856	0.07		
3.318	42031	41292	0.982	0.11		
3.345	26397	25248	0.956	0.07		
3.434	179549	168379	0.938	0.49		
3.519	202586	194816	0.962	0.56		
3.645	40772	36100	0.885	0.11		
3.732	188020	161735	0.860	0.52		
3.827	837334	546469	0.653	2.32		
3.939	76336	54486	0.714	0.21		
3.994	193180	184368	0.954	0.53		
4.058	71619	57795	0.807	0.19		
4.136	21257	16623	0.782	0.05		
4.215	844211	741931	0.879	2.34		
4.261	1029661	962419	0.935	2.85	6 Aroclor 1248	BA
4.292	2049883	1782658	0.870	6.17		
4.417	493390	463002	0.938	1.36		
4.452	327257	293470	0.897	0.90		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.546	1049187	990537	0.944	2.91	6 Aroclor 1248
4.589	166555	157209	0.944	0.46	
4.617	83958	71919	0.857	0.23	
4.681	87591	76233	0.870	0.24	
4.736	136880	114968	0.840	0.38	
4.768	336236	314436	0.935	0.93	
4.813	818866	768847	0.939	2.27	6 Aroclor 1248
4.847	406316	376757	0.927	1.12	
4.879	1793251	1098531	0.613	4.97	6 Aroclor 1248
4.957	310477	263320	0.848	0.86	
5.036	689920	649479	0.941	1.91	6 Aroclor 1248
5.101	899199	787903	0.876	2.49	
5.159	918153	779655	0.849	2.54	7 Aroclor 1254
5.212	799230	697789	0.873	2.21	
5.284	158354	155968	0.985	0.43	
5.306	265617	232646	0.876	0.73	
5.363	329583	299280	0.908	0.91	
5.406	853836	768928	0.901	2.37	7 Aroclor 1254
5.446	503966	426551	0.846	1.39	
5.478	128422	127653	0.994	0.35	
5.510	1549369	1329234	0.858	4.30	7 Aroclor 1254
5.576	84918	77092	0.908	0.23	
5.603	190031	166975	0.879	0.52	
5.676	570878	520768	0.912	1.58	
5.708	314828	264331	0.840	0.87	
5.743	444069	344849	0.777	1.23	
5.790	1986090	1519957	0.765	5.51	
5.884	247383	197086	0.797	0.68	
5.931	221791	172613	0.778	0.61	
5.993	542111	500418	0.923	1.50	
6.024	946665	798640	0.844	2.62	7 Aroclor 1254
6.056	719443	593437	0.825	1.99	
6.169	367650	209685	0.570	1.02	
6.227	129638	144543	1.115	0.35	
6.242	210708	171799	0.815	0.58	
6.301	2017590	1623742	0.805	5.60	7 Aroclor 1254
6.332	182901	170572	0.933	0.50	
6.373	93700	77314	0.825	0.26	
6.431	273049	224234	0.821	0.75	
6.509	849128	753340	0.887	2.35	
6.536	314835	288183	0.915	0.87	
6.559	134772	127546	0.946	0.37	
6.605	73072	58276	0.798	0.20	
6.659	43704	40789	0.933	0.12	
6.717	259466	229407	0.884	0.72	
6.759	299570	267057	0.891	0.83	
6.801	288888	269411	0.933	0.80	
6.839	138449	105664	0.763	0.38	
6.913	37733	34493	0.914	0.10	
6.941	106963	102707	0.960	0.29	
7.004	611773	544142	0.889	1.69	8 Aroclor 1260
7.035	72762	68479	0.941	0.20	
7.073	13452	13524	1.005	0.03	
7.121	35052	28870	0.824	0.09	
7.250	304040	270589	0.890	0.84	8 Aroclor 1260
7.281	112934	89666	0.794	0.31	
7.390	307844	254329	0.826	0.85	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.440	285019	251718	0.883	0.79	8 Aroclor 1260
7.555	21664	16515	0.762	0.06	
7.690	78456	68965	0.879	0.21	
7.726	72681	59246	0.815	0.20	
7.801	37499	26817	0.715	0.10	
7.900	177864	152538	0.858	0.49	8 Aroclor 1260
7.959	25411	17387	0.684	0.07	
8.049	35491	26049	0.734	0.09	
8.272	141407	124537	0.881	0.39	
8.378	11431	9511	0.832	0.03	
8.570	1303922	1126984	0.864	3.62	$ 12 Decachlorobiphenyl
8.940	11149	8793	0.789	0.03	
9.170	15276	14146	0.926	0.04	
9.458	9990	8539	0.855	0.02	
9.960	21426	15603	0.728	0.05	
	36014558	30709199		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718025.D
Lab Smp Id: 40151616006 Client Smp ID: ND1-170613-01-BB-05
Inj Date : 27-MAR-2018 19:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616006 x10,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	1197126	0.00971	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1029661	0.43947	2200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1049186	0.25280	1300	0.00- 20.00	101.90	BA
4.812	4.812	0.000	818865	0.40337	2000	0.00- 20.00	79.53	BA
4.878	4.879	-0.001	1793251	0.35598	1800	0.00- 20.00	174.16	BA
5.036	5.038	-0.002	689919	0.19226	960	0.00- 20.00	67.00	BA
Average of Peak Concentrations =					1600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	918153	0.17538	880	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	853836	0.19852	990	0.00- 20.00	92.99	BA
5.509	5.510	-0.001	1549368	0.19950	1000	0.00- 20.00	168.75	BA
6.024	6.027	-0.003	946665	0.19440	970	0.00- 20.00	103.11	BA
6.300	6.299	0.001	2017589	0.31006	1500	0.00- 20.00	219.74	BA
Average of Peak Concentrations =					1100			
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	611773	0.06109	300	0.00- 20.00	30.32	BA
7.250	7.251	-0.001	304040	0.06361	320	0.00- 20.00	15.07	BA
7.440	7.443	-0.003	285019	0.09777	490	0.00- 20.00	14.13	BA
7.899	7.901	-0.002	177864	0.06741	340	0.00- 20.00	8.82	BA
Average of Peak Concentrations =					360			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1303921	0.01190	59			

QC Flag Legend

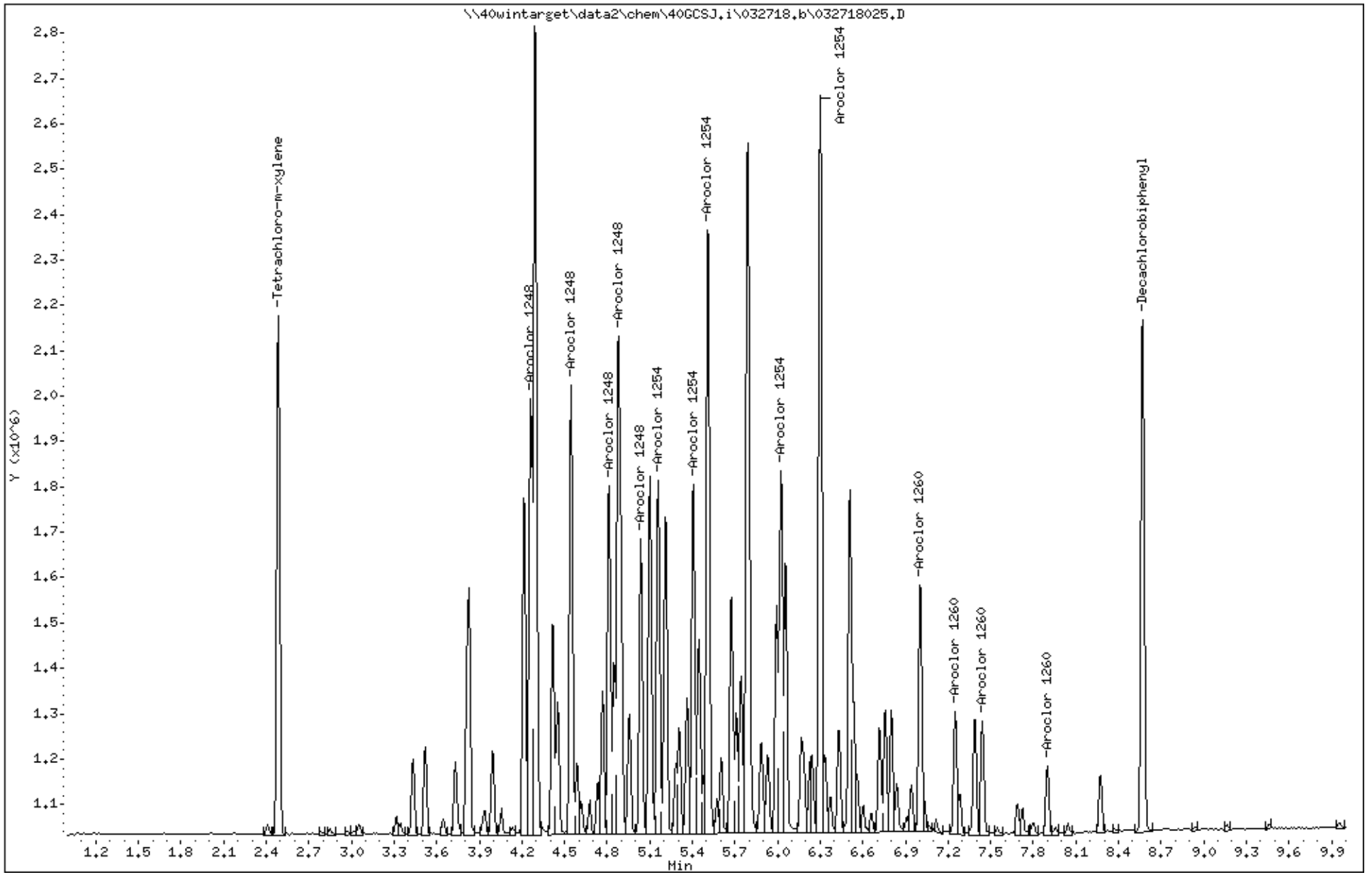
M - Compound response manually integrated.

Review Codes Legend

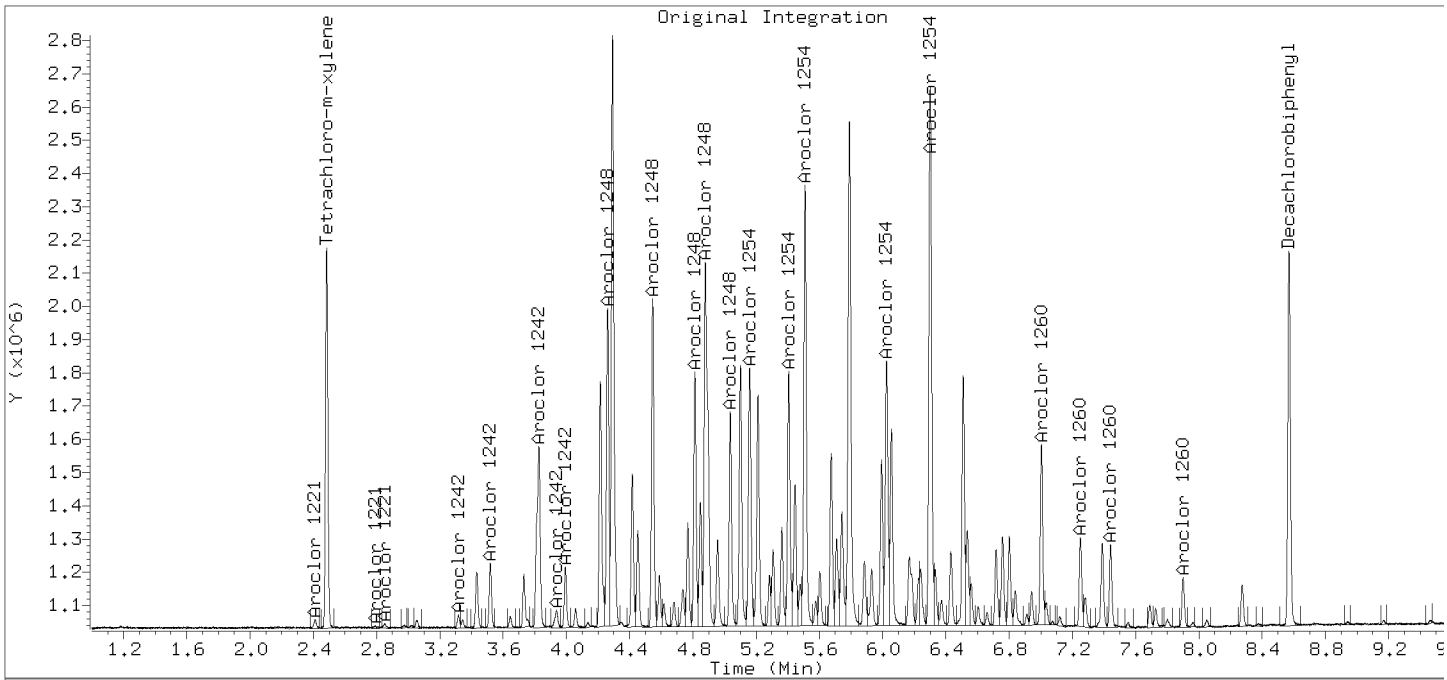
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

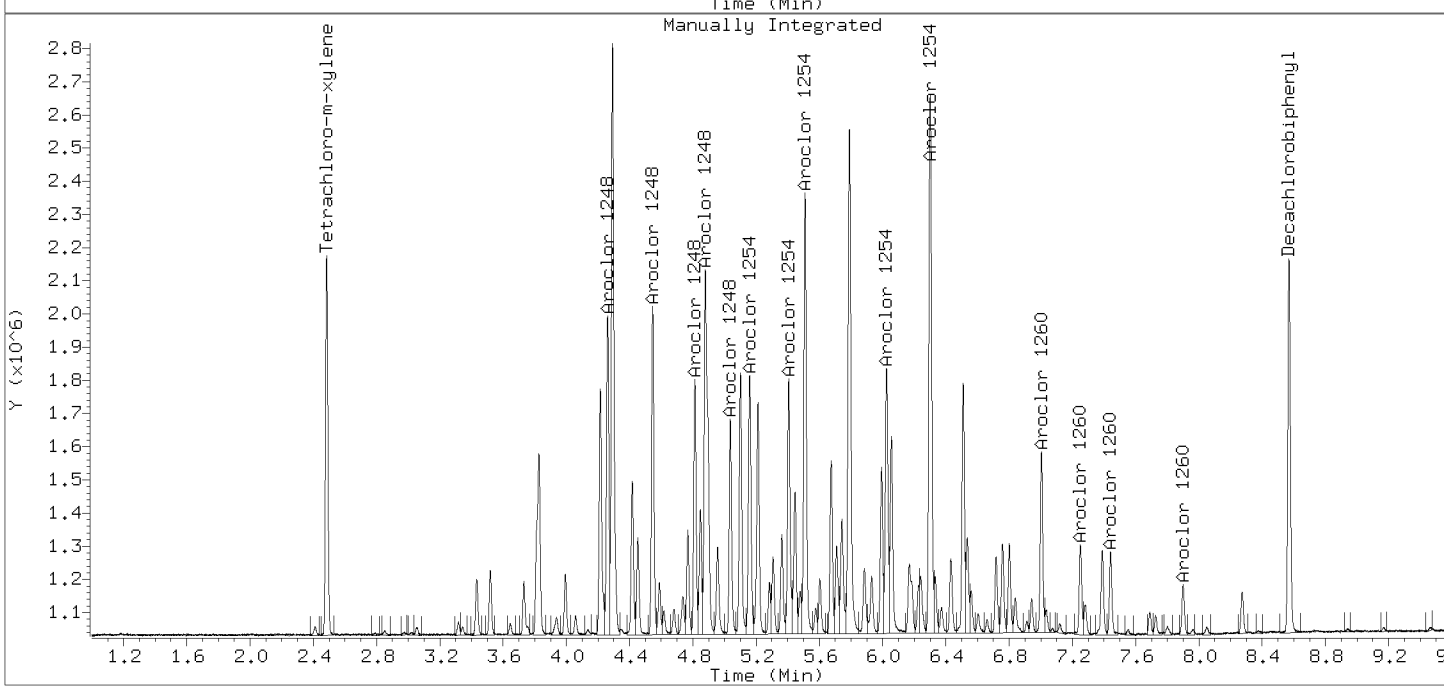
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718025.D
Date : 27-MAR-2018 19:28
Client ID: ND1-170613-01-BB-05
Sample Info: 40151616006 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 19:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	42030	0	
Aroclor 1016	42030	0	
Aroclor 1016	42030	0	
Aroclor 1016	42030	0	
Aroclor 1016	42030	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	18364	0	
Aroclor 1232	18364	0	
Aroclor 1232	18364	0	
Aroclor 1232	18364	0	

Aroclor 1232	18364	0	
Aroclor 1242	42030	0	
Aroclor 1242	42030	0	
Aroclor 1242	42030	0	
Aroclor 1242	42030	0	
Aroclor 1242	42030	0	
Aroclor 1248	1015583	1029661	BA
Aroclor 1248	1015583	1029661	BA
Aroclor 1248	1015583	1029661	BA
Aroclor 1248	1015583	1029661	BA
Aroclor 1248	1015583	1029661	BA
Aroclor 1254	909056	918153	BA
Aroclor 1254	909056	918153	BA
Aroclor 1254	909056	918153	BA
Aroclor 1254	909056	918153	BA
Aroclor 1254	909056	918153	BA
Aroclor 1260	2010277	0	BA
Aroclor 1260	2010277	0	BA
Aroclor 1260	2010277	0	BA
Aroclor 1260	2010277	0	BA
Aroclor 1260	2010277	0	BA
Tetrachloro-m-xylene	1197126	1197126	
Decachlorobiphenyl	1303921	1303921	

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SAMPLE NO.

ND1-170613-01-BB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 40151616007

Date Analyzed: 03/28/2018 15:12

Lab File ID: 032818.B\032818008.D

Initial wt/vol: 9.9618 g Final wt/vol: 5 mL Dilution: 15

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<172	U
11104-28-2	PCB-1221 (Aroclor 1221)	1550	
11141-16-5	PCB-1232 (Aroclor 1232)	<172	U
53469-21-9	PCB-1242 (Aroclor 1242)	<172	U
12672-29-6	PCB-1248 (Aroclor 1248)	1410	
11097-69-1	PCB-1254 (Aroclor 1254)	901	
11096-82-5	PCB-1260 (Aroclor 1260)	402	J
1336-36-3	PCB, Total	4260	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818008.D
Lab Smp Id: 40151616007 Client Smp ID: ND1-170613-01-BB-04
Inj Date : 28-MAR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616007 x15,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.962	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.806	37797	32665	0.864	0.15		1 Aroclor 1221	BA
2.412	510921	426229	0.834	2.13		1 Aroclor 1221	BA
2.484	767914	750069	0.977	3.20	$	2 Tetrachloro-m-xylene	BA
2.686	19480	13740	0.705	0.08		1 Aroclor 1221	BA
2.788	22863	17335	0.758	0.09		1 Aroclor 1221	BA
2.851	78983	67566	0.855	0.32		1 Aroclor 1221	BA
3.054	259407	239665	0.924	1.08			
3.317	53433	48789	0.913	0.22			
3.345	80847	70715	0.875	0.33			
3.434	395840	368611	0.931	1.65			
3.519	297969	276243	0.927	1.24			
3.647	51768	46038	0.889	0.21			
3.732	258813	220920	0.854	1.08			
3.814	313299	337567	1.077	1.30			
3.826	338339	336091	0.993	1.41			
3.938	74266	58347	0.786	0.30			
3.995	153731	139423	0.907	0.64			
4.058	49788	43618	0.876	0.20			
4.136	21566	18040	0.836	0.08			
4.215	534265	434674	0.814	2.22			
4.261	802233	783561	0.977	3.34		6 Aroclor 1248	BA
4.293	1701418	1491872	0.877	7.56			
4.347	25456	15685	0.616	0.10			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.418	221556	209762	0.947	0.92	
4.453	221322	205042	0.926	0.92	
4.546	734511	671740	0.915	3.06	6 Aroclor 1248
4.589	150946	139802	0.926	0.62	
4.615	56885	47614	0.837	0.23	
4.681	73188	65959	0.901	0.30	
4.738	116180	102277	0.880	0.48	
4.768	145536	134497	0.924	0.60	
4.814	386438	355992	0.921	1.61	6 Aroclor 1248
4.848	136637	130594	0.956	0.57	
4.895	825547	395689	0.479	3.44	6 Aroclor 1248
4.957	257557	219836	0.854	1.07	
5.037	226969	194135	0.855	0.94	6 Aroclor 1248
5.102	542647	477635	0.880	2.26	
5.159	544977	459328	0.843	2.27	7 Aroclor 1254
5.213	487410	408358	0.838	2.03	
5.285	102654	103553	1.009	0.42	
5.308	174854	147627	0.844	0.72	
5.362	134437	116976	0.870	0.56	
5.407	431363	394153	0.914	1.80	7 Aroclor 1254
5.447	194293	163437	0.841	0.81	
5.480	100546	92033	0.915	0.41	
5.510	856481	749053	0.875	3.57	7 Aroclor 1254
5.577	81566	73475	0.901	0.34	
5.604	76049	62757	0.825	0.31	
5.676	357939	339649	0.949	1.49	
5.709	226309	199189	0.880	0.94	
5.744	281900	233764	0.829	1.17	
5.790	1025522	756124	0.737	4.27	
5.883	147089	122310	0.832	0.61	
5.931	135987	118135	0.869	0.56	
5.994	389586	367976	0.945	1.62	
6.028	383657	323641	0.844	1.60	7 Aroclor 1254
6.056	567212	477690	0.842	2.36	
6.170	84807	92659	1.093	0.35	
6.185	112225	100818	0.898	0.46	
6.242	197857	102545	0.518	0.82	
6.303	1331443	1023365	0.769	5.55	7 Aroclor 1254
6.377	46882	32506	0.693	0.19	
6.432	189703	163804	0.863	0.79	
6.510	686452	592522	0.863	2.86	
6.535	154029	154959	1.006	0.64	
6.559	113734	103256	0.908	0.47	
6.604	41279	33747	0.818	0.17	
6.660	34595	28882	0.835	0.14	
6.718	191957	165358	0.861	0.80	
6.760	227213	204398	0.900	0.94	
6.803	159675	140298	0.879	0.66	
6.839	95444	71256	0.747	0.39	
6.911	27647	28051	1.015	0.11	
6.943	70936	64426	0.908	0.29	
7.004	437002	386558	0.885	1.82	8 Aroclor 1260
7.035	63946	58712	0.918	0.26	
7.074	13261	10878	0.820	0.05	
7.121	28476	26323	0.924	0.11	
7.252	203974	185581	0.910	0.85	8 Aroclor 1260
7.282	78898	61959	0.785	0.32	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.390	242301	196912	0.813	1.01	
7.443	221251	195643	0.884	0.92	8 Aroclor 1260
7.554	15073	13393	0.889	0.06	
7.691	61116	53599	0.877	0.25	
7.728	55948	44172	0.790	0.23	
7.798	31262	20478	0.655	0.13	
7.902	135717	112504	0.829	0.56	8 Aroclor 1260
7.960	21330	14428	0.676	0.08	
8.053	10922	9333	0.854	0.04	
8.275	107592	96601	0.898	0.44	
8.571	813260	714459	0.879	3.39	$ 12 Decachlorobiphenyl
8.939	10757	6928	0.644	0.04	
	23964112	20608576		100.000	

Total unknown % area = 59

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818008.D
Lab Smp Id: 40151616007 Client Smp ID: ND1-170613-01-BB-04
Inj Date : 28-MAR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616007 x15,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.962	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			
1.805	1.804	0.001	37796	0.03630	270	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	510921	0.93260	7000	0.00- 20.00	1351.79	BA
2.686	2.688	-0.002	19480	0.01408	110	0.00- 20.00	51.54	BA
2.787	2.789	-0.002	22862	0.02068	160	0.00- 20.00	60.49	BA
2.850	2.851	-0.001	78983	0.02426	180	0.00- 20.00	208.97	BA
Average of Peak Concentrations =					1500			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	767913	0.00623	47		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	802232	0.34240	2600	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	734510	0.17698	1300	0.00- 20.00	91.56	BA
4.813	4.812	0.001	386437	0.19036	1400	0.00- 20.00	48.17	BA
4.895	4.879	0.016	825546	0.16388	1200	0.00- 20.00	102.91	BA
5.037	5.038	-0.001	226968	0.06325	480	0.00- 20.00	28.29	BA
Average of Peak Concentrations =					1400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	544977	0.10410	780	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	431362	0.10029	760	0.00- 20.00	79.15	BA
5.509	5.510	-0.001	856480	0.11028	830	0.00- 20.00	157.16	BA
6.028	6.027	0.001	383657	0.07878	590	0.00- 20.00	70.40	BA
6.302	6.299	0.003	1331443	0.20461	1500	0.00- 20.00	244.31	BA
Average of Peak Concentrations =					900			
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	437001	0.04364	330	0.00- 20.00	32.82	BA
7.251	7.251	0.000	203973	0.04267	320	0.00- 20.00	15.32	BA
7.442	7.443	-0.001	221251	0.07590	570	0.00- 20.00	16.62	BA
7.901	7.901	0.000	135717	0.05143	390	0.00- 20.00	10.19	BA
Average of Peak Concentrations =					400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	813260	0.00742	56			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818008.D

Date : 28-MAR-2018 15:12

Client ID: ND1-170613-01-BB-04

Instrument: 40GCSJ.i

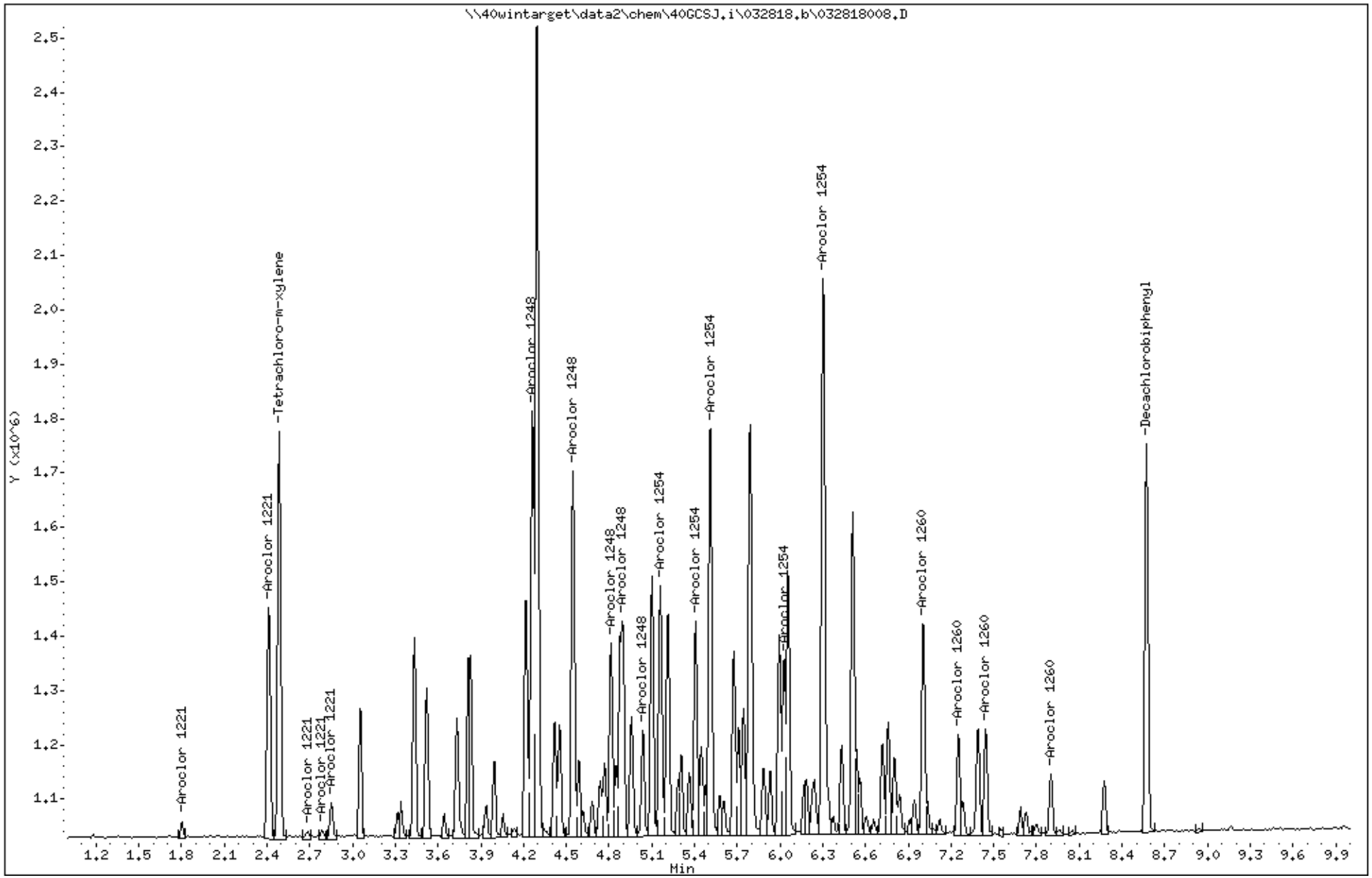
Sample Info: 40151616007 x15,

Volume Injected (uL): 1.0

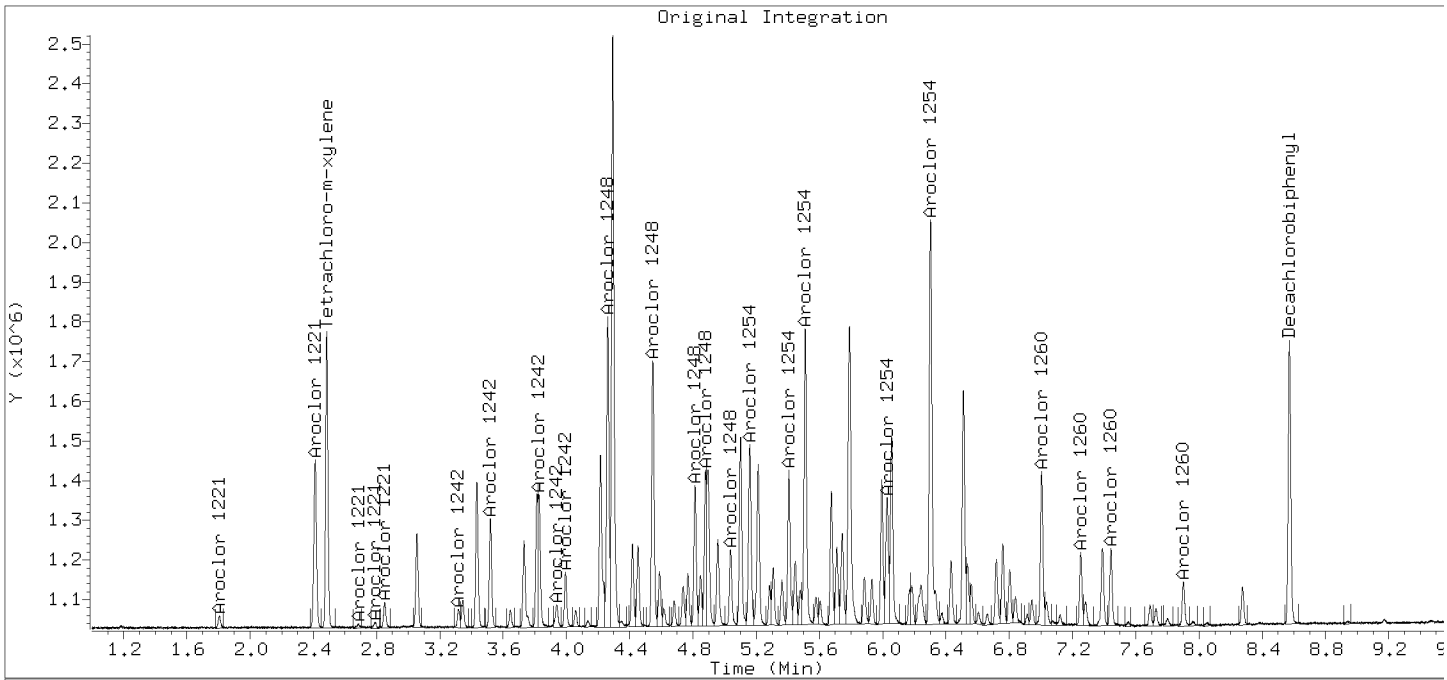
Operator: BLM

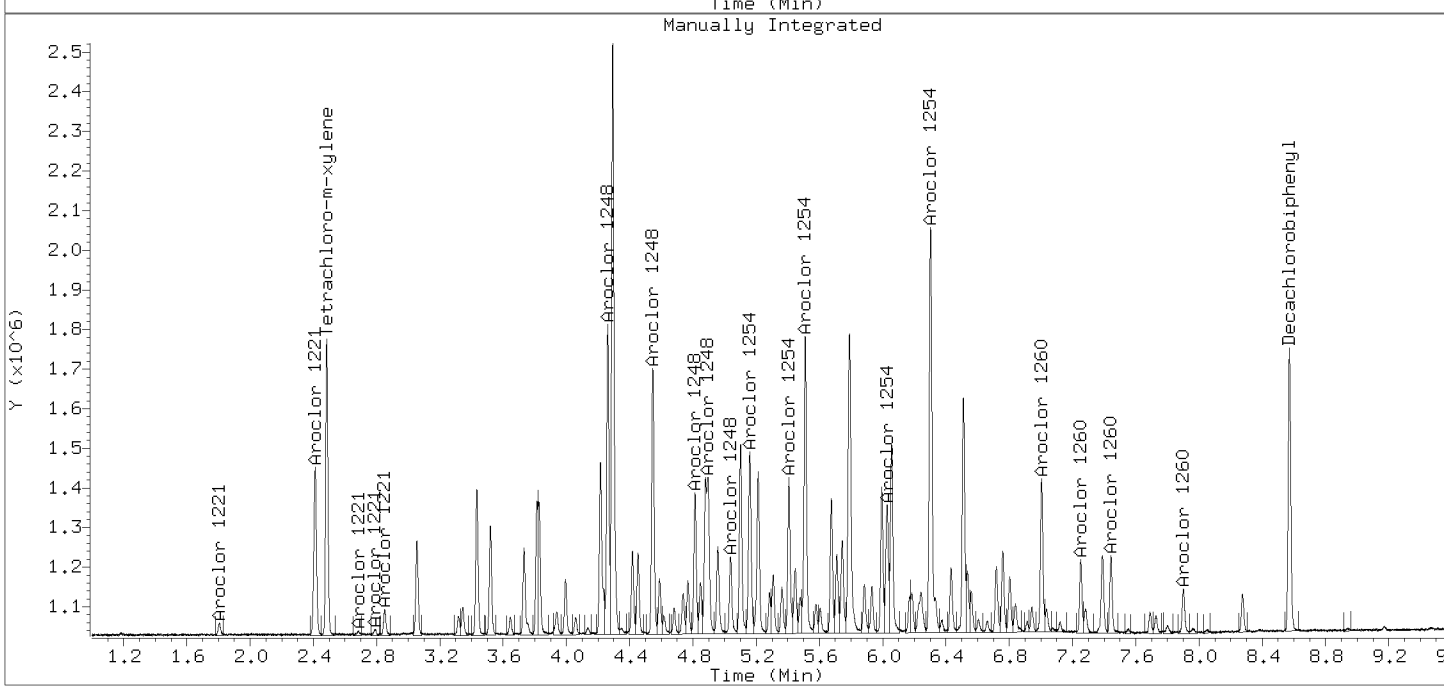
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 28-MAR-2018 15:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	49258	0	
Aroclor 1016	49258	0	
Aroclor 1016	49258	0	
Aroclor 1016	49258	0	
Aroclor 1016	49258	0	
Aroclor 1221	33996	37796	BA
Aroclor 1221	33996	37796	BA
Aroclor 1221	33996	37796	BA
Aroclor 1221	33996	37796	BA
Aroclor 1221	33996	37796	BA
Aroclor 1232	71530	0	
Aroclor 1232	71530	0	
Aroclor 1232	71530	0	
Aroclor 1232	71530	0	

Aroclor 1232	71530	0	
Aroclor 1242	49258	0	
Aroclor 1242	49258	0	
Aroclor 1242	49258	0	
Aroclor 1242	49258	0	
Aroclor 1242	49258	0	
Aroclor 1248	799058	802232	BA
Aroclor 1248	799058	802232	BA
Aroclor 1248	799058	802232	BA
Aroclor 1248	799058	802232	BA
Aroclor 1248	799058	802232	BA
Aroclor 1254	534495	544977	BA
Aroclor 1254	534495	544977	BA
Aroclor 1254	534495	544977	BA
Aroclor 1254	534495	544977	BA
Aroclor 1254	534495	544977	BA
Aroclor 1260	1317079	0	BA
Aroclor 1260	1317079	0	BA
Aroclor 1260	1317079	0	BA
Aroclor 1260	1317079	0	BA
Aroclor 1260	1317079	0	BA
Tetrachloro-m-xylene	757173	767913	BA
Decachlorobiphenyl	813260	813260	

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SAMPLE NO.

ND1-170613-01-BB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151616008
Date Analyzed: 03/27/2018 19:59
Lab File ID: 032718.B\032718027.D
Initial wt/vol: 10.0254 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)	109	
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)	404	
11097-69-1	PCB-1254 (Aroclor 1254)	218	
11096-82-5	PCB-1260 (Aroclor 1260)	58.1	J
1336-36-3	PCB, Total	789	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718027.D
Lab Smp Id: 40151616008 Client Smp ID: ND1-170613-01-BB-03
Inj Date : 27-MAR-2018 19:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616008 x2,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.036	9795	9484	0.968	0.02			
1.149	11295	9843	0.871	0.02			
1.184	41256	34451	0.835	0.08			
1.537	11710	8076	0.690	0.02			
1.682	10244	11210	1.094	0.02			
1.803	19877	12807	0.644	0.04		1 Aroclor 1221	BA
2.010	28005	22465	0.802	0.05			
2.412	258310	214372	0.830	0.54		1 Aroclor 1221	BA
2.484	5332555	5119110	0.960	11.71	$	2 Tetrachloro-m-xylene	BA
2.680	16743	10495	0.627	0.03		1 Aroclor 1221	BA
2.791	28362	19056	0.672	0.05		1 Aroclor 1221	BA
2.851	53053	40720	0.768	0.11		1 Aroclor 1221	BA
2.973	49972	29586	0.592	0.10			
3.020	41347	34789	0.841	0.08			
3.054	168772	158218	0.937	0.35			
3.318	70176	63848	0.910	0.14			
3.343	59186	54563	0.922	0.12			
3.433	311148	288452	0.927	0.65			
3.519	249445	228961	0.918	0.52			
3.646	67398	59210	0.879	0.14			
3.731	400549	343251	0.857	0.83			
3.826	1266401	744227	0.588	2.65			
3.936	113338	73206	0.646	0.23			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	226387	210286	0.929	0.47	
4.057	85491	70753	0.828	0.17	
4.136	21646	19754	0.913	0.04	
4.215	884008	733394	0.830	1.85	
4.260	1300637	1259506	0.968	2.72	6 Aroclor 1248
4.291	2647464	2218300	0.838	5.54	
4.350	42928	34643	0.807	0.08	
4.417	556546	520036	0.934	1.16	
4.451	355441	311532	0.876	0.74	
4.545	1372105	1270154	0.926	2.87	6 Aroclor 1248
4.589	223534	210347	0.941	0.46	
4.617	99913	84247	0.843	0.20	
4.679	160412	140652	0.877	0.33	
4.736	170310	144484	0.848	0.35	
4.768	380792	351309	0.923	0.79	
4.813	974730	914542	0.938	2.04	6 Aroclor 1248
4.846	390228	375182	0.961	0.81	
4.878	2197730	1266834	0.576	4.60	6 Aroclor 1248
4.957	404484	327494	0.810	0.84	
5.036	805768	735793	0.913	1.68	6 Aroclor 1248
5.101	1075777	929124	0.864	2.25	
5.160	912743	770426	0.844	1.91	7 Aroclor 1254
5.210	886016	741815	0.837	1.85	
5.283	169468	170147	1.004	0.35	
5.307	363198	285748	0.787	0.76	
5.362	393738	338796	0.860	0.82	
5.406	953929	872461	0.915	1.99	7 Aroclor 1254
5.446	681985	584401	0.857	1.42	
5.478	165192	153115	0.927	0.34	
5.509	1541490	1386437	0.899	3.22	7 Aroclor 1254
5.576	93871	83894	0.894	0.19	
5.604	242750	208546	0.859	0.50	
5.674	661183	604368	0.914	1.38	
5.709	330567	270520	0.818	0.69	
5.741	388869	296449	0.762	0.81	
5.790	1848900	1399007	0.757	3.87	
5.885	267489	197533	0.738	0.56	
5.930	240352	191421	0.796	0.50	
5.992	459465	415537	0.904	0.96	
6.025	977717	834618	0.854	2.04	7 Aroclor 1254
6.054	739104	639077	0.865	1.54	
6.167	333649	188534	0.565	0.69	
6.227	92750	117582	1.268	0.19	
6.240	203911	150531	0.738	0.42	
6.300	1928716	1592825	0.826	4.03	7 Aroclor 1254
6.332	187257	171267	0.915	0.39	
6.373	89394	75814	0.848	0.18	
6.430	291823	235933	0.808	0.61	
6.508	693878	616359	0.888	1.45	
6.533	350325	316181	0.903	0.73	
6.559	115232	105859	0.919	0.24	
6.604	66123	49859	0.754	0.13	
6.660	41579	30492	0.733	0.08	
6.717	176474	144372	0.818	0.36	
6.758	251663	217047	0.862	0.52	
6.800	243152	213209	0.877	0.50	
6.838	124732	91199	0.731	0.26	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.913	31153	26410	0.848	0.06	
6.941	142424	127222	0.893	0.29	
7.004	433703	390026	0.899	0.90	8 Aroclor 1260
7.035	54535	49909	0.915	0.11	
7.120	40395	26077	0.646	0.08	
7.250	257446	225446	0.876	0.53	8 Aroclor 1260
7.282	92657	74428	0.803	0.19	
7.339	17968	14756	0.821	0.03	
7.389	238569	196080	0.822	0.49	
7.443	217772	175611	0.806	0.45	8 Aroclor 1260
7.548	13232	13727	1.037	0.02	
7.689	64395	59153	0.919	0.13	
7.726	74706	57683	0.772	0.15	
7.800	48754	30920	0.634	0.10	
7.898	161030	132392	0.822	0.33	8 Aroclor 1260
7.958	22707	16760	0.738	0.04	
8.047	66567	53399	0.802	0.13	
8.273	158842	139920	0.881	0.33	
8.377	17855	14101	0.790	0.03	
8.569	5000610	4234400	0.847	10.47	$ 12 Decachlorobiphenyl
8.935	17732	12300	0.694	0.03	
9.167	36099	29762	0.824	0.07	
9.470	23972	12299	0.513	0.05	
9.955	10657	6976	0.655	0.02	
	47747734	40599902		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718027.D
Lab Smp Id: 40151616008 Client Smp ID: ND1-170613-01-BB-03
Inj Date : 27-MAR-2018 19:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616008 x2,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	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			
1.802	1.804	-0.002	19877	0.01909	19	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	258310	0.47150	470	0.00- 20.00	1299.54	BA
2.679	2.688	-0.009	16743	0.01210	12	0.00- 20.00	84.23	BA
2.790	2.789	0.001	28361	0.02565	26	0.00- 20.00	142.68	BA
2.851	2.851	0.000	53053	0.01630	16	0.00- 20.00	266.91	BA
Average of Peak Concentrations =					110			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5332555	0.04325	43		(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	1300637	0.55512	550	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1372105	0.33060	330	0.00- 20.00	105.49	BA
4.812	4.812	0.000	974729	0.48014	480	0.00- 20.00	74.94	BA
4.877	4.879	-0.002	2197730	0.43628	440	0.00- 20.00	168.97	BA
5.036	5.038	-0.002	805768	0.22454	220	0.00- 20.00	61.95	BA
Average of Peak Concentrations =					400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	912743	0.17435	170	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	953928	0.22179	220	0.00- 20.00	104.51	BA
5.508	5.510	-0.002	1541490	0.19849	200	0.00- 20.00	168.89	BA
6.024	6.027	-0.003	977717	0.20078	200	0.00- 20.00	107.12	BA
6.300	6.299	0.001	1928716	0.29640	300	0.00- 20.00	211.31	BA
Average of Peak Concentrations =					220			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	433703	0.04331	43	0.00- 20.00	22.49	BA
7.250	7.251	-0.001	257446	0.05386	54	0.00- 20.00	13.35	BA
7.442	7.443	-0.001	217771	0.07470	74	0.00- 20.00	11.29	BA
7.897	7.901	-0.004	161029	0.06103	61	0.00- 20.00	8.35	BA
Average of Peak Concentrations =					58			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5000610	0.04564	46			

QC Flag Legend

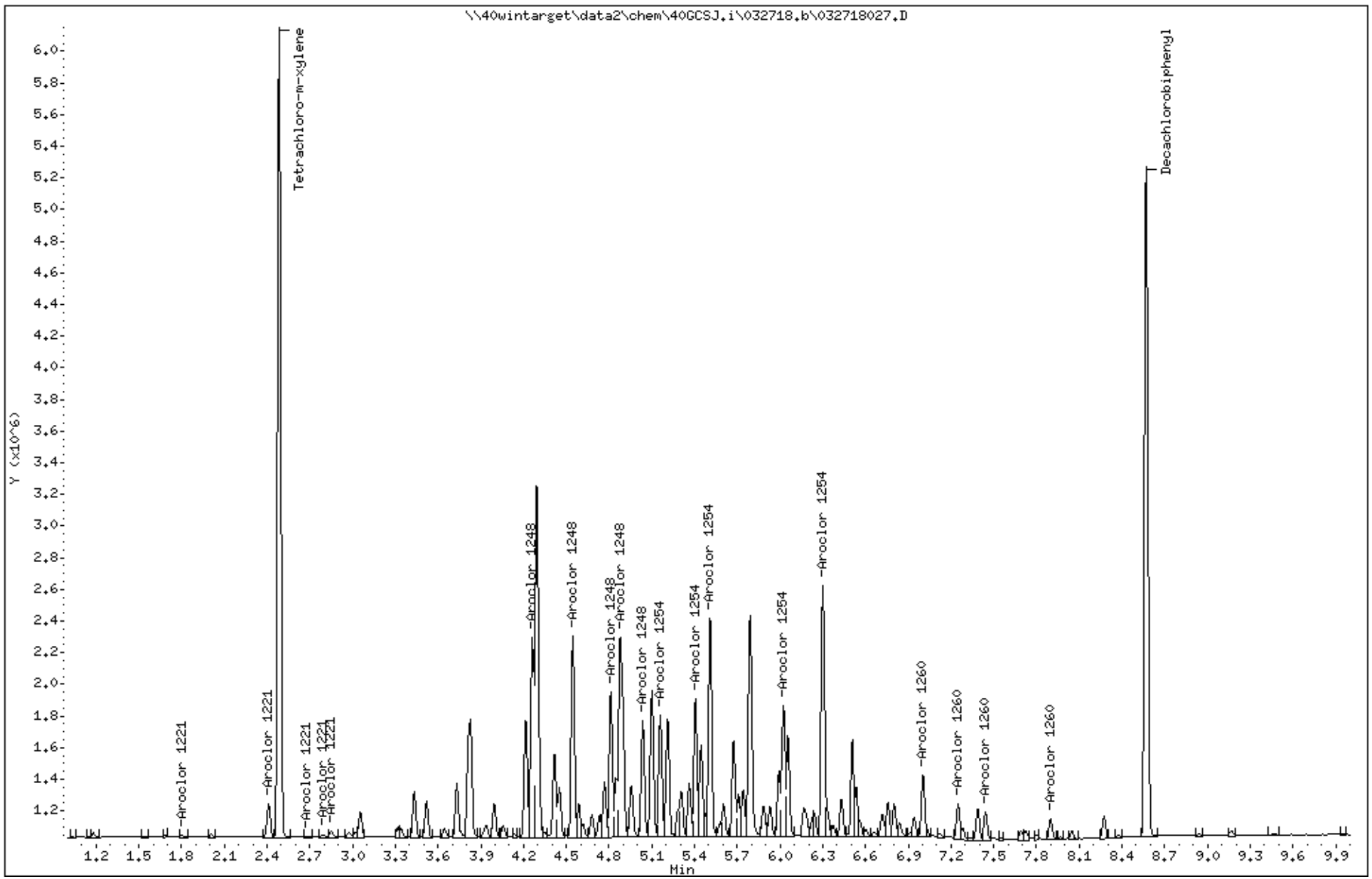
M - Compound response manually integrated.

Review Codes Legend

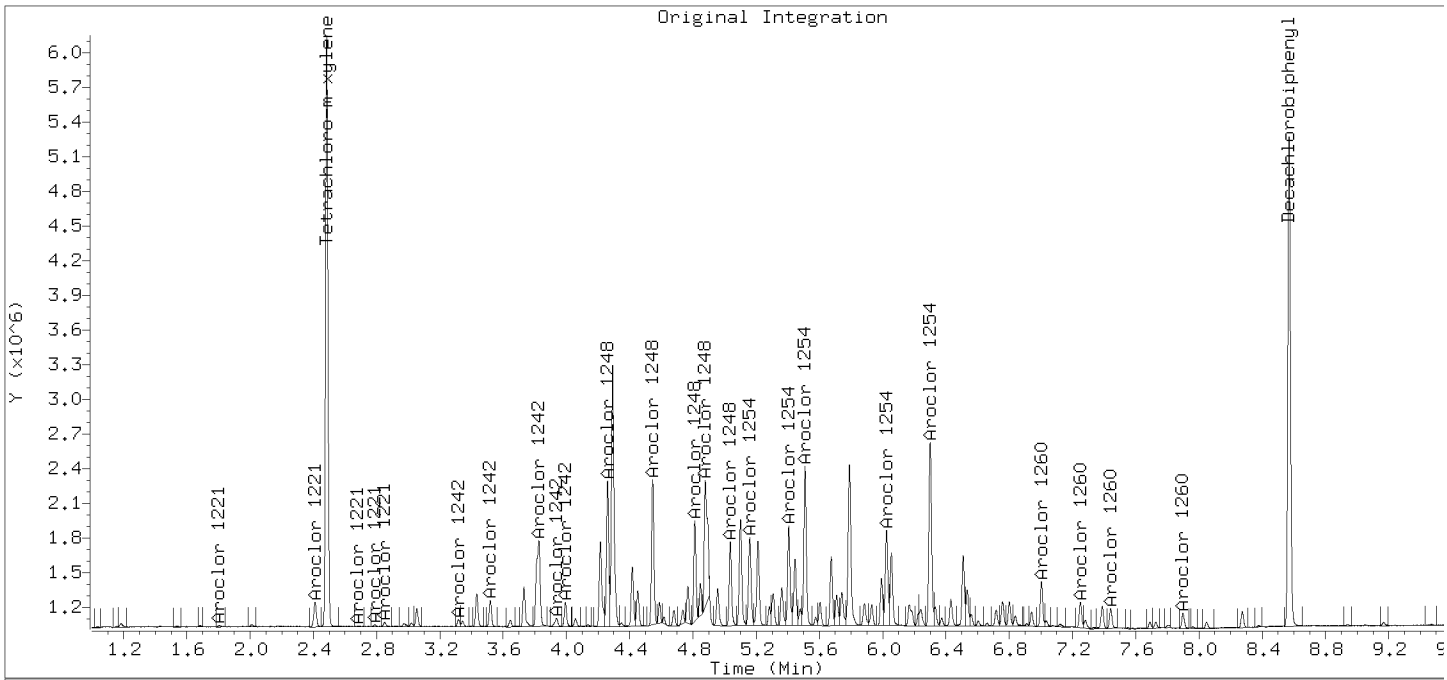
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

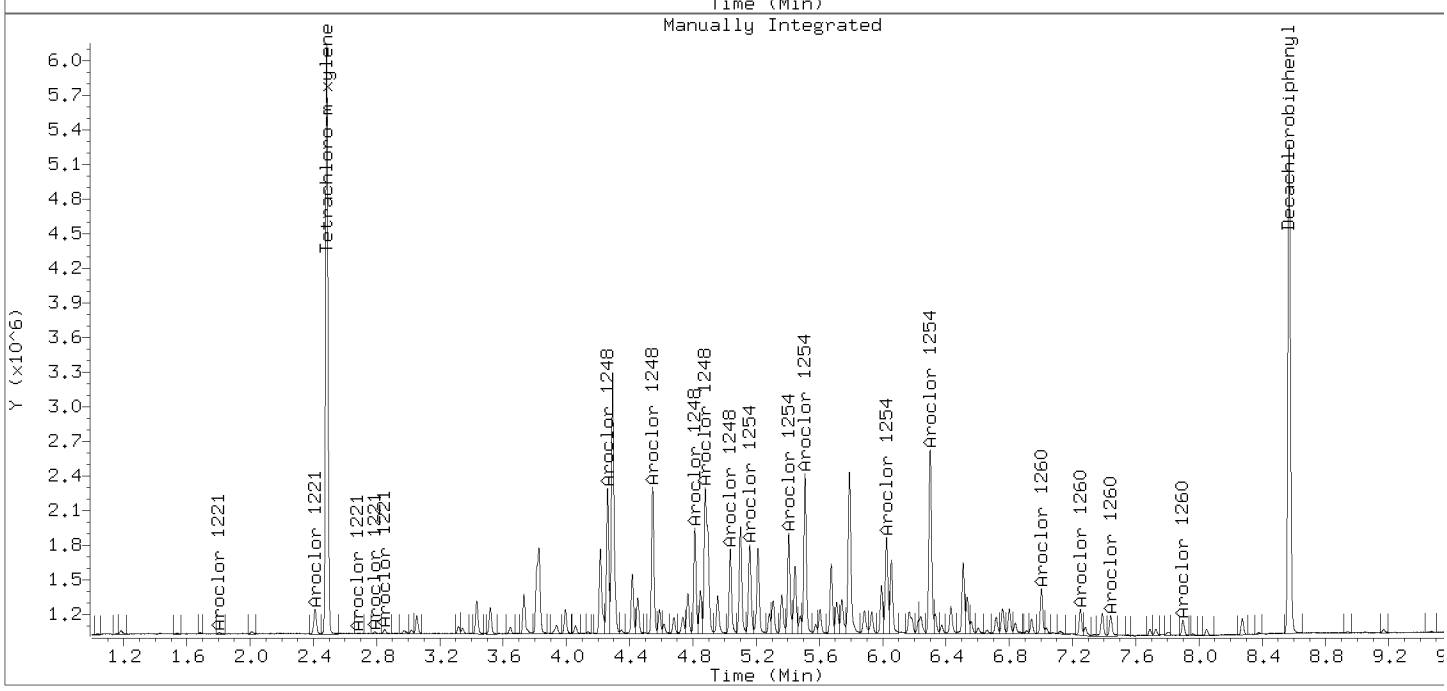
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718027.D
Date : 27-MAR-2018 19:59
Client ID: ND1-170613-01-BB-03
Sample Info: 40151616008 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 19:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	68277	0	
Aroclor 1016	68277	0	
Aroclor 1016	68277	0	
Aroclor 1016	68277	0	
Aroclor 1016	68277	0	
Aroclor 1221	18415	19877	BA
Aroclor 1221	18415	19877	BA
Aroclor 1221	18415	19877	BA
Aroclor 1221	18415	19877	BA
Aroclor 1221	18415	19877	BA
Aroclor 1232	51769	0	
Aroclor 1232	51769	0	
Aroclor 1232	51769	0	
Aroclor 1232	51769	0	

Aroclor 1232	51769	0	
Aroclor 1242	68277	0	
Aroclor 1242	68277	0	
Aroclor 1242	68277	0	
Aroclor 1242	68277	0	
Aroclor 1242	68277	0	
Aroclor 1248	1290674	1300637	BA
Aroclor 1248	1290674	1300637	BA
Aroclor 1248	1290674	1300637	BA
Aroclor 1248	1290674	1300637	BA
Aroclor 1248	1290674	1300637	BA
Aroclor 1254	872242	912743	BA
Aroclor 1254	872242	912743	BA
Aroclor 1254	872242	912743	BA
Aroclor 1254	872242	912743	BA
Aroclor 1254	872242	912743	BA
Aroclor 1260	1910571	0	BA
Aroclor 1260	1910571	0	BA
Aroclor 1260	1910571	0	BA
Aroclor 1260	1910571	0	BA
Aroclor 1260	1910571	0	BA
Tetrachloro-m-xylene	5324830	5332555	BA
Decachlorobiphenyl	5000610	5000610	

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SAMPLE NO.

ND1-170613-01-BB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151616009
Date Analyzed: 03/28/2018 15:28
Lab File ID: 032818.B\032818009.D
Initial wt/vol: 9.9761 g Final wt/vol: 5 mL Dilution: 100
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<1140	U
11104-28-2	PCB-1221 (Aroclor 1221)	8450	
11141-16-5	PCB-1232 (Aroclor 1232)	<1140	U
53469-21-9	PCB-1242 (Aroclor 1242)	<1140	U
12672-29-6	PCB-1248 (Aroclor 1248)	1390	J
11097-69-1	PCB-1254 (Aroclor 1254)	<1140	U
11096-82-5	PCB-1260 (Aroclor 1260)	<1140	U
1336-36-3	PCB, Total	9840	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818009.D
Lab Smp Id: 40151616009 Client Smp ID: ND1-170613-01-BB-02
Inj Date : 28-MAR-2018 15:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616009 x100,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
Dil Factor: 100.00000
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	100.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.182	17684	16132	0.912	0.40			
1.807	42604	35449	0.832	0.96		1 Aroclor 1221	BA
2.011	21210	12617	0.595	0.48			
2.412	426289	350262	0.822	9.98		1 Aroclor 1221	BA
2.485	121002	107581	0.889	2.73	$	2 Tetrachloro-m-xylene	BA
2.683	12853	10294	0.801	0.29		1 Aroclor 1221	BA
2.789	5666	9702	1.712	0.12		1 Aroclor 1221	BA
2.853	31025	24286	0.783	0.70		4 Aroclor 1232	BA
3.054	181523	162512	0.895	4.10			
3.318	13965	15318	1.097	0.31		3 Aroclor 1242	BA
3.344	22604	17073	0.755	0.51			
3.434	144659	130707	0.904	3.27			
3.520	62300	55610	0.893	1.41		3 Aroclor 1242	BA
3.648	14655	11335	0.773	0.33			
3.732	46979	35025	0.746	1.06			
3.813	84747	47775	0.564	1.91		3 Aroclor 1242	BA
3.940	25640	19693	0.768	0.58		3 Aroclor 1242	BA
3.994	33835	24034	0.710	0.76		3 Aroclor 1242	BA
4.216	93331	75532	0.809	2.11			
4.261	107009	98622	0.922	2.42		6 Aroclor 1248	BA
4.294	212030	181831	0.858	4.80			
4.419	38108	32016	0.840	0.86			
4.454	33348	23923	0.717	0.75			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.547	99295	87218	0.878	2.24	6 Aroclor 1248
4.587	31467	20973	0.667	0.71	
4.679	17050	13967	0.819	0.38	
4.737	20108	15819	0.787	0.45	
4.770	26109	21682	0.830	0.59	
4.814	58821	51783	0.880	1.33	6 Aroclor 1248
4.847	23502	21294	0.906	0.53	
4.892	143093	72697	0.508	3.23	6 Aroclor 1248
4.958	46242	34024	0.736	1.04	
5.039	42564	33379	0.784	0.96	6 Aroclor 1248
5.101	94274	77561	0.823	2.13	
5.159	82475	65909	0.799	1.86	7 Aroclor 1254
5.212	76882	57785	0.752	1.74	
5.285	17729	17659	0.996	0.40	
5.308	30499	24148	0.792	0.69	
5.365	27289	21171	0.776	0.61	
5.405	69568	57100	0.821	1.57	7 Aroclor 1254
5.448	36920	28388	0.769	0.83	
5.479	23584	20622	0.874	0.53	
5.510	126667	109337	0.863	2.86	7 Aroclor 1254
5.676	76301	68379	0.896	1.72	
5.709	44500	35105	0.789	1.00	
5.742	41255	34281	0.831	0.93	
5.789	157600	107991	0.685	3.56	
5.884	27501	20948	0.762	0.62	
5.930	25784	18501	0.718	0.58	
5.993	57157	48409	0.847	1.29	
6.027	65536	54270	0.828	1.48	7 Aroclor 1254
6.057	75835	60714	0.801	1.71	
6.181	31820	22965	0.722	0.72	
6.302	172128	136964	0.796	3.89	7 Aroclor 1254
6.334	21237	15341	0.722	0.48	
6.433	38046	25251	0.664	0.86	
6.509	108421	72096	0.665	2.45	
6.559	24382	15978	0.655	0.55	
6.608	12352	7798	0.631	0.27	
6.718	32226	23807	0.739	0.72	
6.758	34235	26964	0.788	0.77	
6.802	24999	20301	0.812	0.56	
6.940	14150	11034	0.780	0.32	
7.004	54238	44282	0.816	1.22	8 Aroclor 1260
7.035	8039	10543	1.312	0.18	
7.252	30142	25360	0.841	0.68	8 Aroclor 1260
7.391	34688	26231	0.756	0.78	
7.445	33123	24226	0.731	0.74	8 Aroclor 1260
7.777	18425	10428	0.566	0.41	
7.903	21732	14968	0.689	0.49	8 Aroclor 1260
8.275	13994	13290	0.950	0.31	
8.376	10064	11165	1.109	0.22	
8.572	158162	137076	0.867	3.58	$ 12 Decachlorobiphenyl
8.938	23772	13141	0.553	0.53	
9.469	15229	12811	0.841	0.34	
9.963	23014	15948	0.693	0.52	
	4417291	3536411		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818009.D
Lab Smp Id: 40151616009 Client Smp ID: ND1-170613-01-BB-02
Inj Date : 28-MAR-2018 15:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616009 x100,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
Dil Factor: 100.00000
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	100.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.806	1.804	0.002	42604	0.04092	2000	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	426288	0.77812	39000	0.00- 20.00	1000.58	BA
2.682	2.688	-0.006	12853	0.00929	460	0.00- 20.00	30.17	BA
2.789	2.789	0.000	5666	0.00512	260	0.00- 20.00	13.30	BA
2.852	2.851	0.001	31025	0.00953	480	0.00- 20.00	72.82	BA
Average of Peak Concentrations =					8400			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	121001	1e-003	49		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA

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			
Qualifier signal(s) failed ratio test.								BA
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	107009	0.04567	2300	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	99294	0.02392	1200	0.00- 20.00	92.79	BA
4.813	4.812	0.001	58821	0.02897	1400	0.00- 20.00	54.97	BA
4.891	4.879	0.012	143093	0.02841	1400	0.00- 20.00	133.72	BA
5.039	5.038	0.001	42564	0.01186	590	0.00- 20.00	39.78	BA
Average of Peak Concentrations =					1400			
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								CO
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	158162	0.00144	72		(R)	

QC Flag Legend

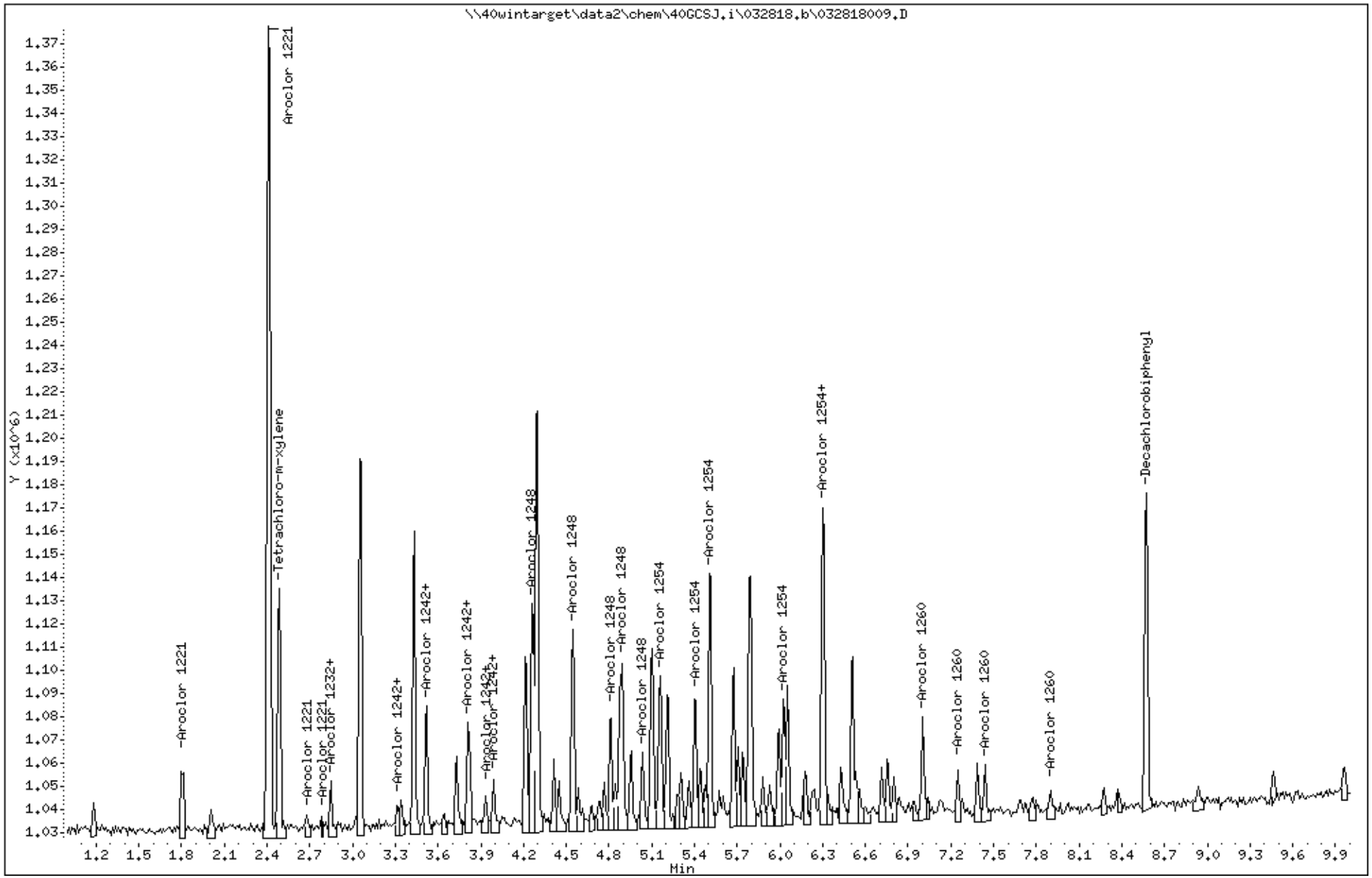
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

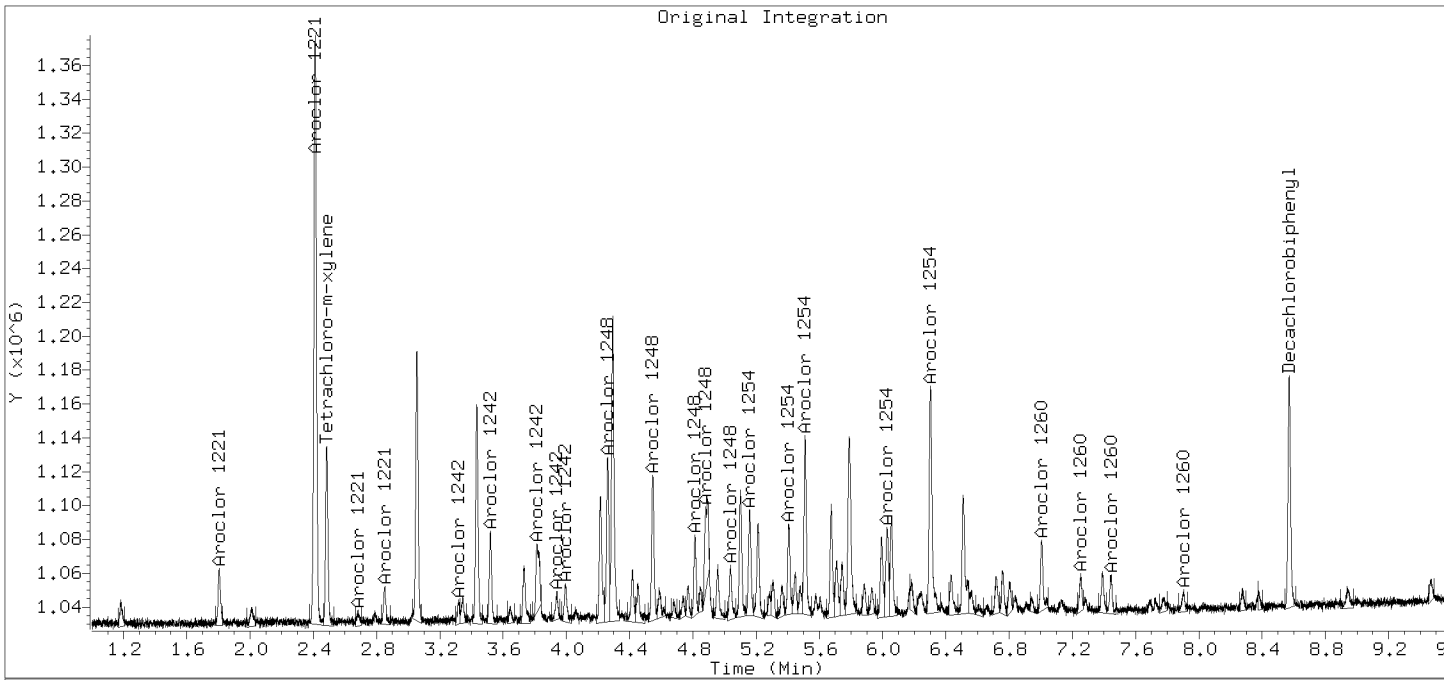
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

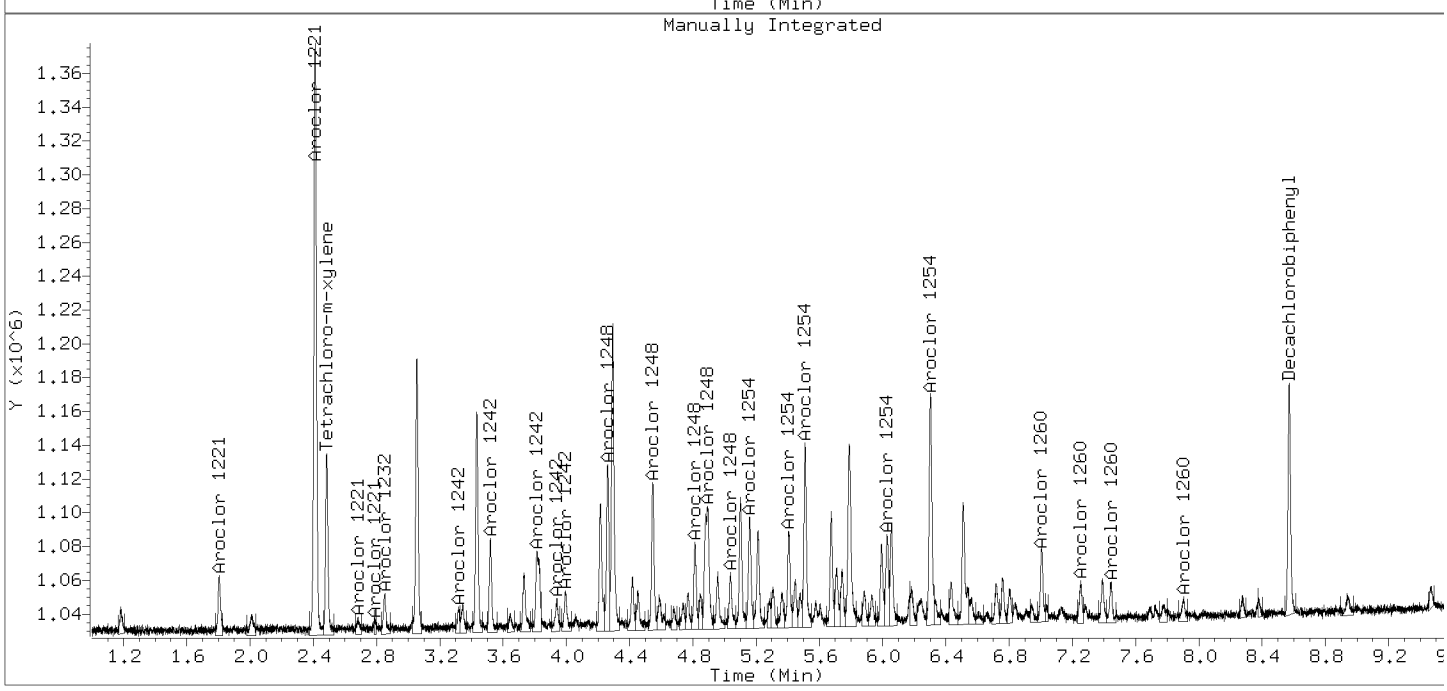
Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818009.D
Date : 28-MAR-2018 15:28
Client ID: ND1-170613-01-BB-02
Sample Info: 40151616009 x100,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 28-MAR-2018 15:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616009





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	37677	42604	BA
Aroclor 1221	37677	42604	BA
Aroclor 1221	37677	42604	BA
Aroclor 1221	37677	42604	BA
Aroclor 1221	37677	42604	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
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	104217	107009	BA
Aroclor 1248	104217	107009	BA
Aroclor 1248	104217	107009	BA
Aroclor 1248	104217	107009	BA
Aroclor 1248	104217	107009	BA
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	115523	121001	BA
Decachlorobiphenyl	158162	158162	

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SAMPLE NO.

ND1-170613-01-BB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151616
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151616010
Date Analyzed: 03/30/2018 16:34
Lab File ID: 033018.B\033018007.D
Initial wt/vol: 9.9941 g Final wt/vol: 5 mL Dilution: 40
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<456	U
11104-28-2	PCB-1221 (Aroclor 1221)	4140	
11141-16-5	PCB-1232 (Aroclor 1232)	<456	U
53469-21-9	PCB-1242 (Aroclor 1242)	<456	U
12672-29-6	PCB-1248 (Aroclor 1248)	489	J
11097-69-1	PCB-1254 (Aroclor 1254)	<456	U
11096-82-5	PCB-1260 (Aroclor 1260)	<456	U
1336-36-3	PCB, Total	4630	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018007.D
Lab Smp Id: 40151616010 Client Smp ID: ND1-170613-01-BB-01
Inj Date : 30-MAR-2018 16:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616010 x40,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 40.00000
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	40.000	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	9.994	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.804	57082	45181	0.792	1.10		1 Aroclor 1221	BA
2.410	413386	314324	0.760	8.44		1 Aroclor 1221	BA
2.485	255585	240125	0.940	4.95	$	2 Tetrachloro-m-xylene	BA
2.682	9250	9986	1.080	0.17		1 Aroclor 1221	BA
2.851	35257	29808	0.845	0.68		4 Aroclor 1232	BA
3.054	127706	115315	0.903	2.47			
3.315	16806	14966	0.891	0.32		3 Aroclor 1242	BA
3.343	28328	25185	0.889	0.54			
3.434	134731	120013	0.891	2.60			
3.519	48936	40927	0.836	0.94		3 Aroclor 1242	BA
3.647	14445	11562	0.800	0.27			
3.733	24176	19675	0.814	0.46			
3.814	63644	36401	0.572	1.23		3 Aroclor 1242	BA
3.940	27815	21854	0.786	0.53		3 Aroclor 1242	BA
3.993	20841	14861	0.713	0.40		3 Aroclor 1242	BA
4.216	74161	58034	0.783	1.43			
4.261	77969	72151	0.925	1.51		6 Aroclor 1248	BA
4.293	143912	123382	0.857	2.78			
4.418	38381	31989	0.833	0.74			
4.452	29458	20017	0.680	0.57			
4.547	71884	61999	0.862	1.39		6 Aroclor 1248	BA
4.590	17524	15767	0.900	0.33			
4.619	12145	10972	0.903	0.23			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.675	13625	10441	0.766	0.26	
4.730	11571	10393	0.898	0.22	
4.766	29926	24527	0.820	0.57	
4.812	62310	54193	0.870	1.20	6 Aroclor 1248
4.845	22752	21006	0.923	0.44	
4.882	143274	80770	0.564	2.77	6 Aroclor 1248
4.959	32156	22534	0.701	0.62	
5.038	45017	39014	0.867	0.87	6 Aroclor 1248
5.102	86178	72801	0.845	1.66	
5.159	80585	65645	0.815	1.56	7 Aroclor 1254
5.212	61123	48225	0.789	1.18	
5.283	20721	18321	0.884	0.40	
5.309	30746	24187	0.787	0.59	
5.362	29584	25360	0.857	0.57	
5.406	77269	66165	0.856	1.49	7 Aroclor 1254
5.446	50031	38629	0.772	0.96	
5.509	130029	109410	0.841	2.51	7 Aroclor 1254
5.604	23607	15650	0.663	0.45	
5.675	75114	66288	0.882	1.45	
5.709	38968	31243	0.802	0.75	
5.743	53291	41637	0.781	1.03	
5.790	275257	204774	0.744	5.33	
5.887	37974	22240	0.586	0.73	
5.933	36065	26562	0.737	0.69	
5.993	84586	77735	0.919	1.63	
6.026	116001	97187	0.838	2.24	7 Aroclor 1254
6.054	48001	37802	0.788	0.92	
6.169	62408	37888	0.607	1.20	
6.225	47761	27019	0.566	0.92	
6.302	274840	216818	0.789	5.32	7 Aroclor 1254
6.333	23588	26482	1.123	0.45	
6.373	22146	14495	0.655	0.42	
6.432	52491	38791	0.739	1.01	
6.510	144649	131881	0.912	2.80	
6.534	59697	40375	0.676	1.15	
6.606	16272	12068	0.742	0.31	
6.659	14209	10449	0.735	0.27	
6.718	42194	35032	0.830	0.81	
6.759	49033	41516	0.847	0.94	
6.804	45883	37613	0.820	0.88	
6.839	27001	21082	0.781	0.52	
6.942	20629	17675	0.857	0.39	
7.004	119604	102471	0.857	2.31	8 Aroclor 1260
7.125	18921	9927	0.525	0.36	
7.252	59020	46524	0.788	1.14	8 Aroclor 1260
7.281	22588	18856	0.835	0.43	
7.388	68010	51074	0.751	1.31	
7.441	69101	53599	0.776	1.33	8 Aroclor 1260
7.690	24330	18108	0.744	0.47	
7.725	21304	16389	0.769	0.41	
7.800	15392	13364	0.868	0.29	
7.898	45300	32006	0.707	0.87	8 Aroclor 1260
8.274	37731	32209	0.854	0.73	
8.570	285656	243136	0.851	5.53	$ 12 Decachlorobiphenyl
9.959	13801	10400	0.754	0.26	
	5162743	4164480		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018007.D
Lab Smp Id: 40151616010 Client Smp ID: ND1-170613-01-BB-01
Inj Date : 30-MAR-2018 16:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151616010 x40,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 40.00000
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	40.000	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	9.994	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.803	1.804	-0.001	57081	0.05482	1100	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	413386	0.75457	15000	0.00- 20.00	724.21	BA
2.681	2.688	-0.007	9250	0.00669	130	0.00- 20.00	16.21	BA
2.789	2.789	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	35257	0.01083	220	0.00- 20.00	61.77	BA
Average of Peak Concentrations =					4100			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	255585	0.00207	41		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA

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			
Qualifier signal(s) failed ratio test.								BA
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	77968	0.03328	660	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	71884	0.01732	350	0.00- 20.00	92.20	BA
4.811	4.812	-0.001	62309	0.03069	610	0.00- 20.00	79.92	BA
4.882	4.879	0.003	143273	0.02844	570	0.00- 20.00	183.76	BA
5.037	5.038	-0.001	45017	0.01254	250	0.00- 20.00	57.74	BA
Average of Peak Concentrations =					490			
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								CO
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	285656	0.00261	52			

QC Flag Legend

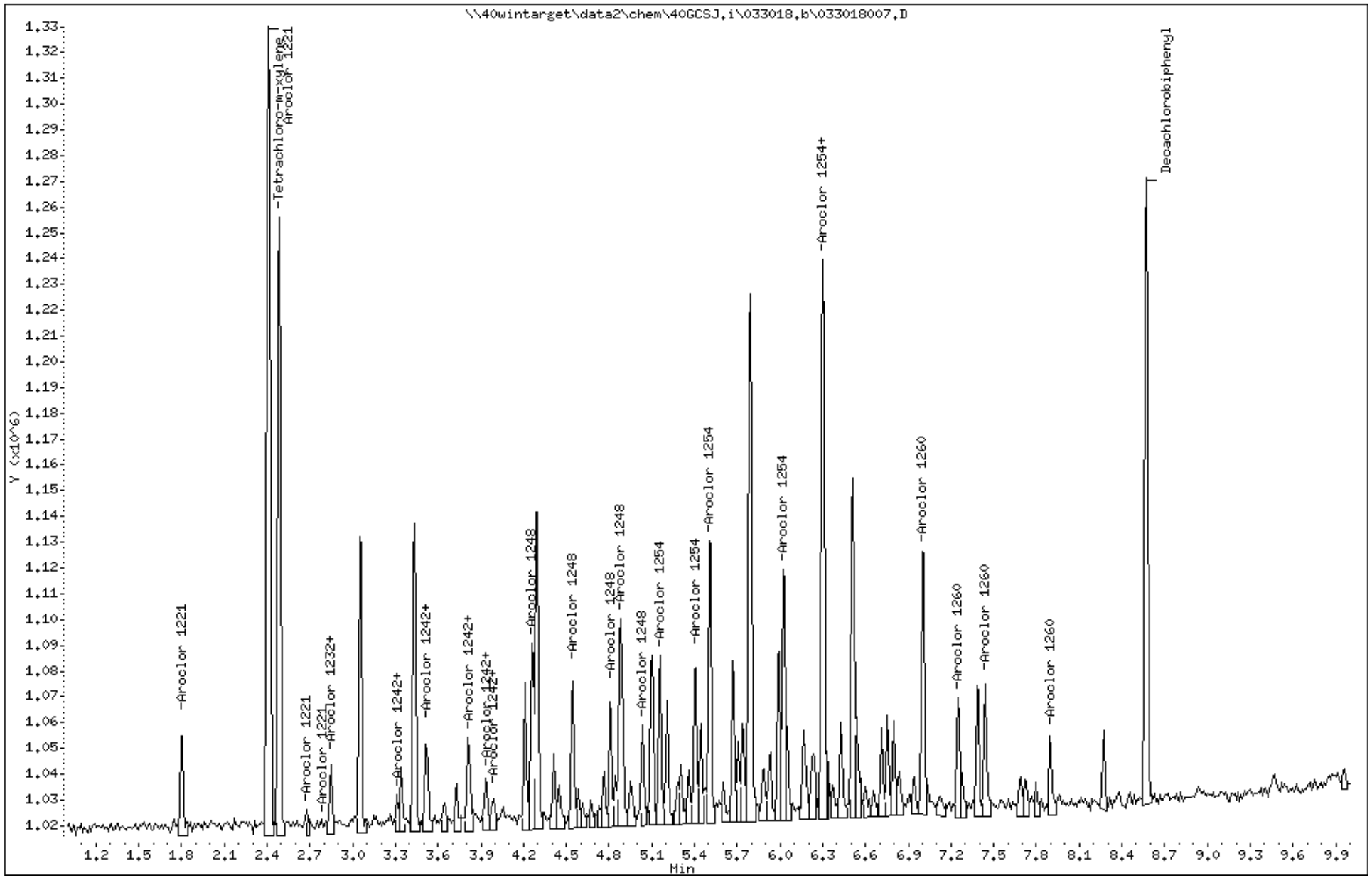
M - Compound response manually integrated.

Review Codes Legend

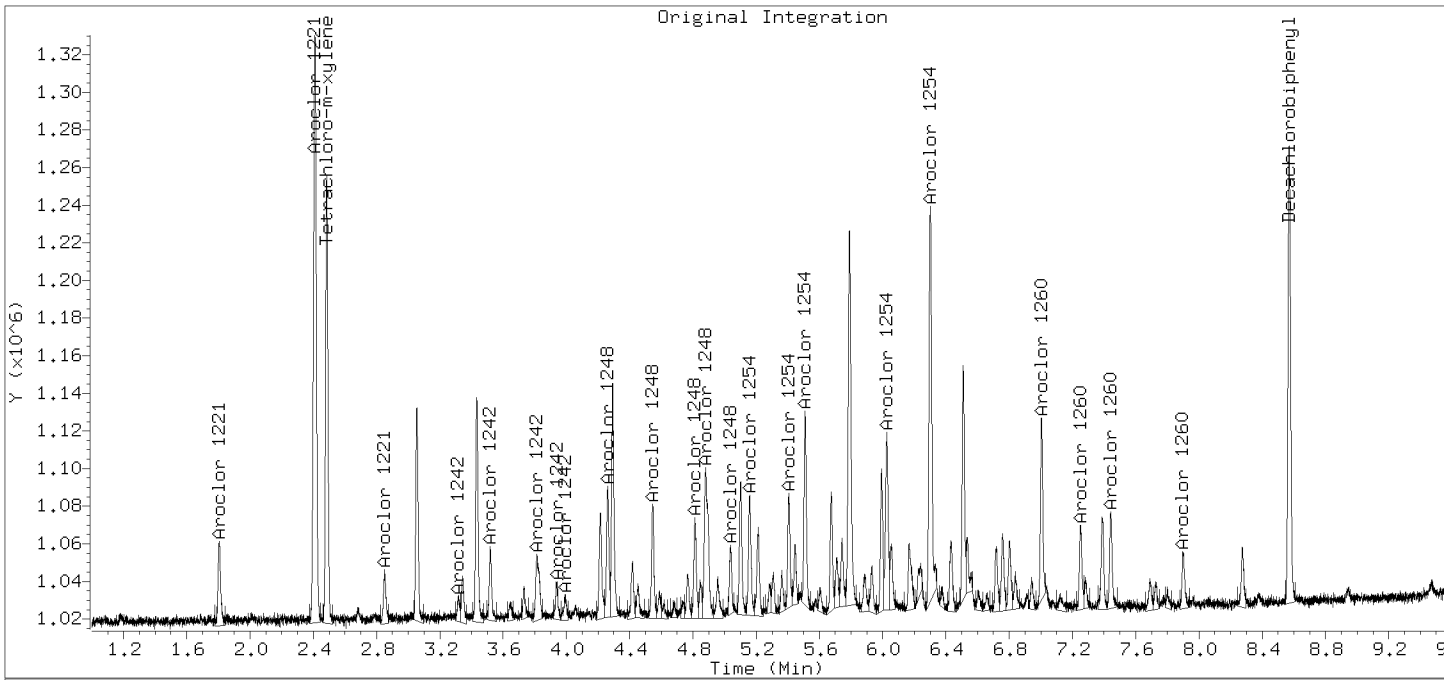
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

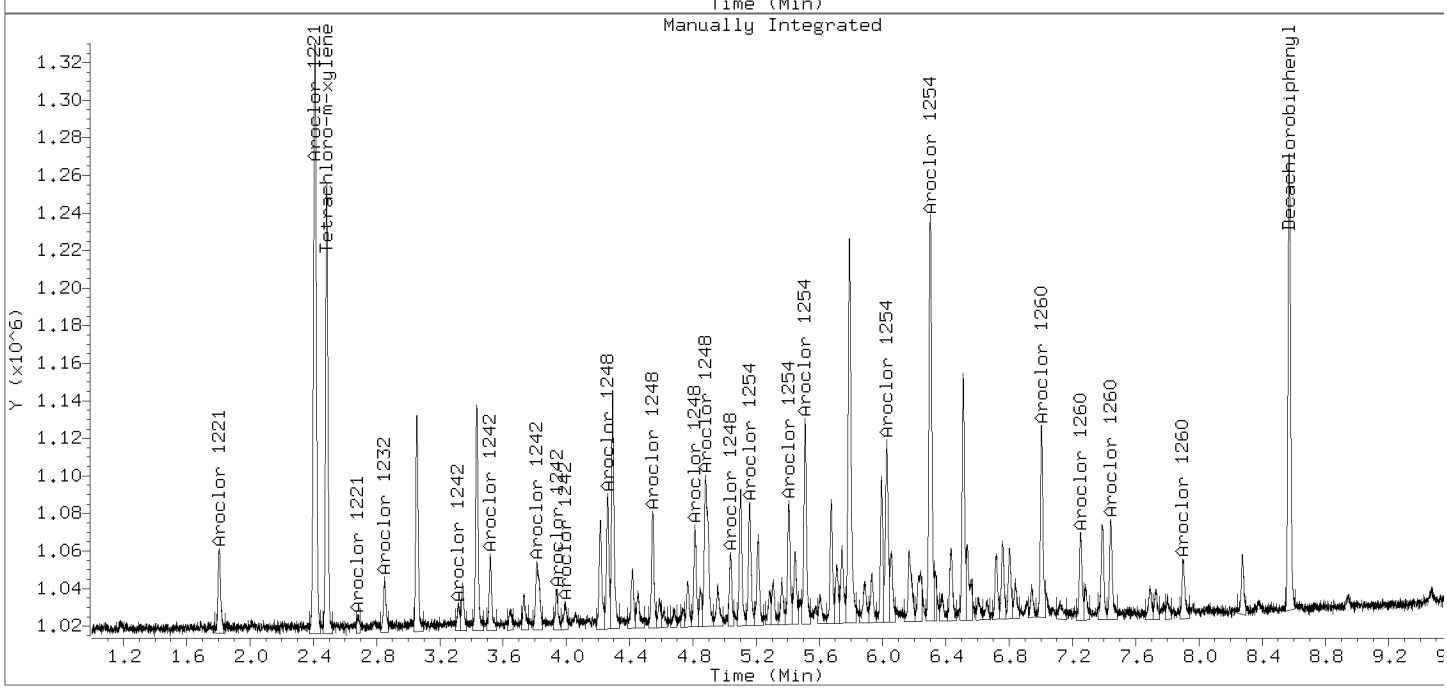
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018007.D
Date : 30-MAR-2018 16:34
Client ID: ND1-170613-01-BB-01
Sample Info: 40151616010 x40,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 16:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151616010





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	56445	57081	BA
Aroclor 1221	56445	57081	BA
Aroclor 1221	56445	57081	BA
Aroclor 1221	56445	57081	BA
Aroclor 1221	56445	57081	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
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	72825	77968	BA
Aroclor 1248	72825	77968	BA
Aroclor 1248	72825	77968	BA
Aroclor 1248	72825	77968	BA
Aroclor 1248	72825	77968	BA
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	250233	255585	BA
Decachlorobiphenyl	285656	285656	

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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.: 40151616

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

LAB FILE ID

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

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

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

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151616

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.: 40151616

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

LAB FILE ID

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

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

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

05/11/2018 11:06

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151616

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.: 40151616

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

LAB FILE ID

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

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

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

05/11/2018 11:06

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.: 40151616

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.: 40151616

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

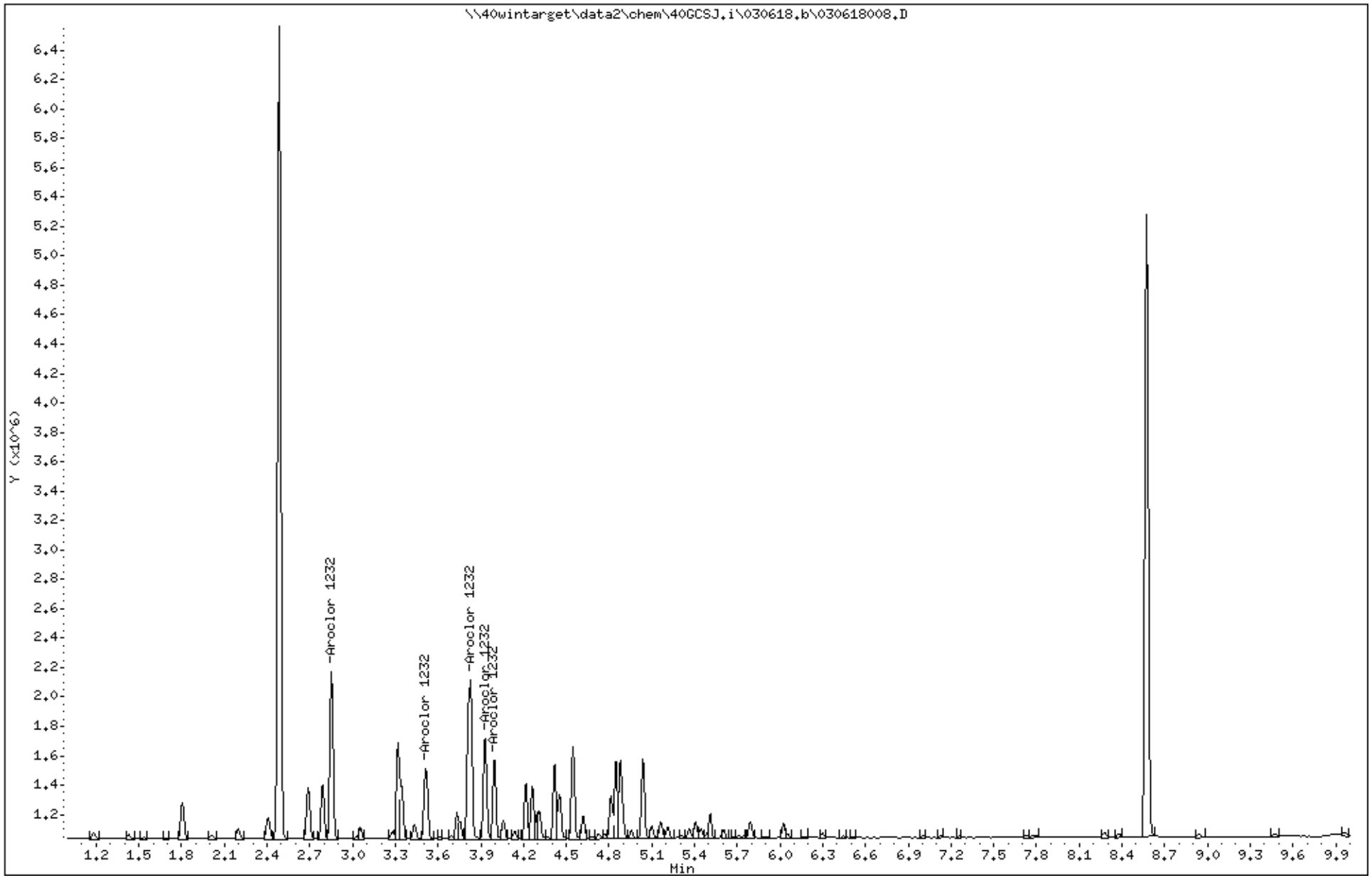
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

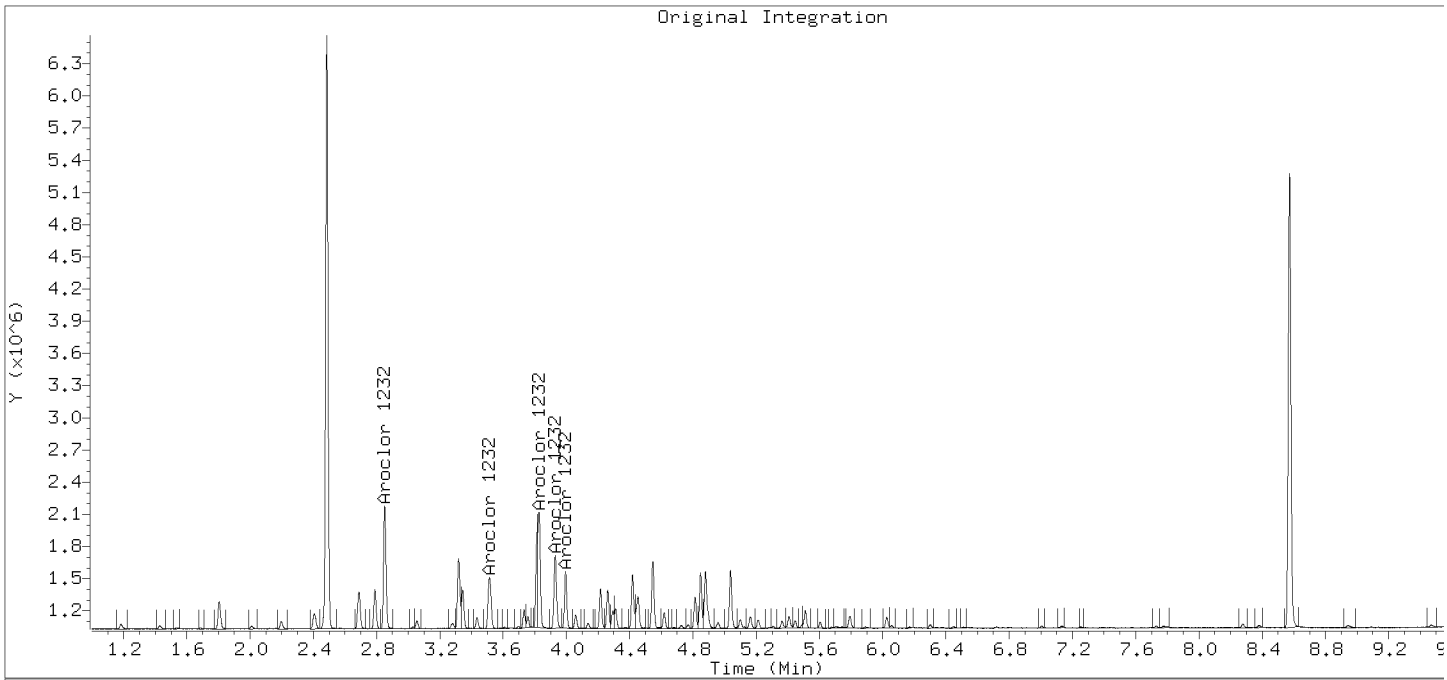
Column phase: ZB-1ms

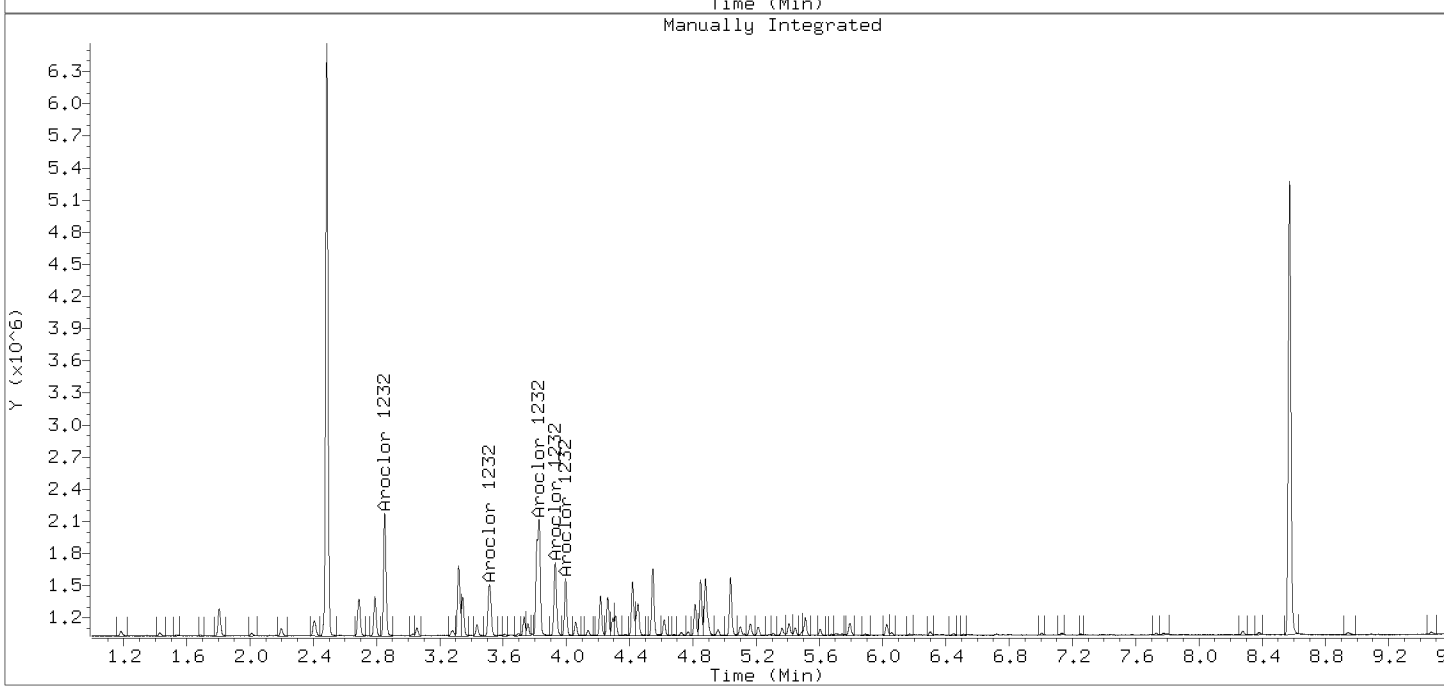
Instrument: 40GCSJ.i

Operator: BLM
Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D

Date : 06-MAR-2018 12:07

Client ID: 1221-CAL1F

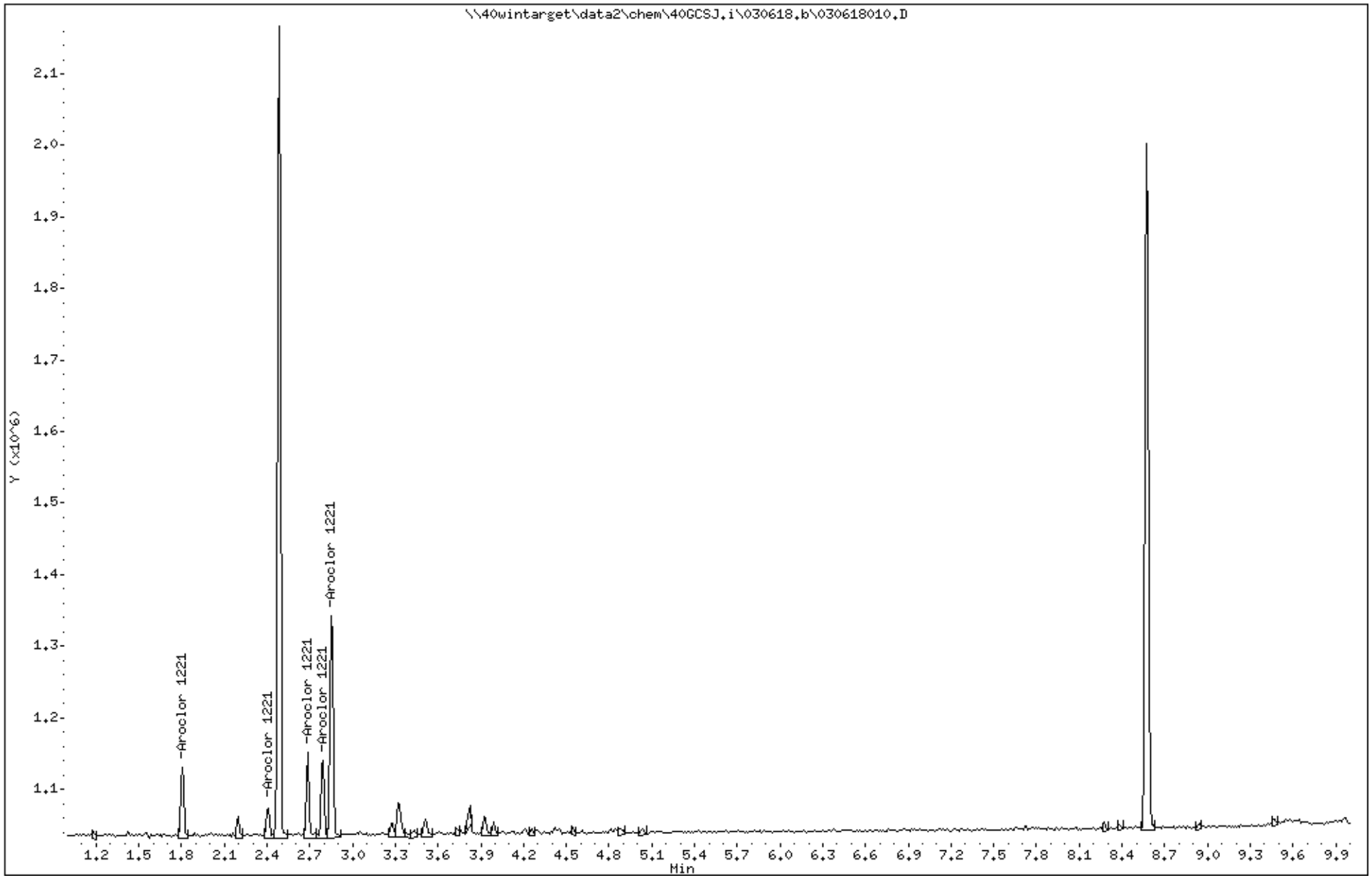
Instrument: 40GCSJ.i

Sample Info: 1221-CAL1F, 188138:1

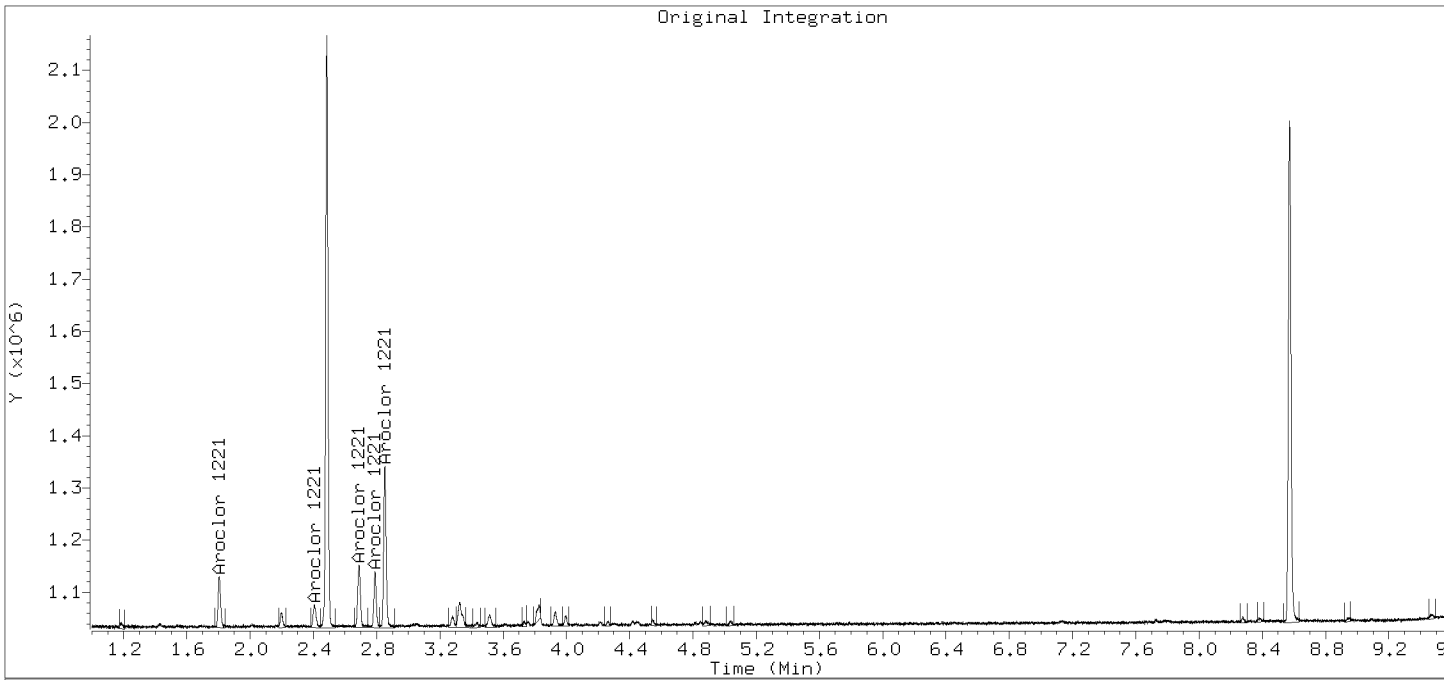
Operator: BLM

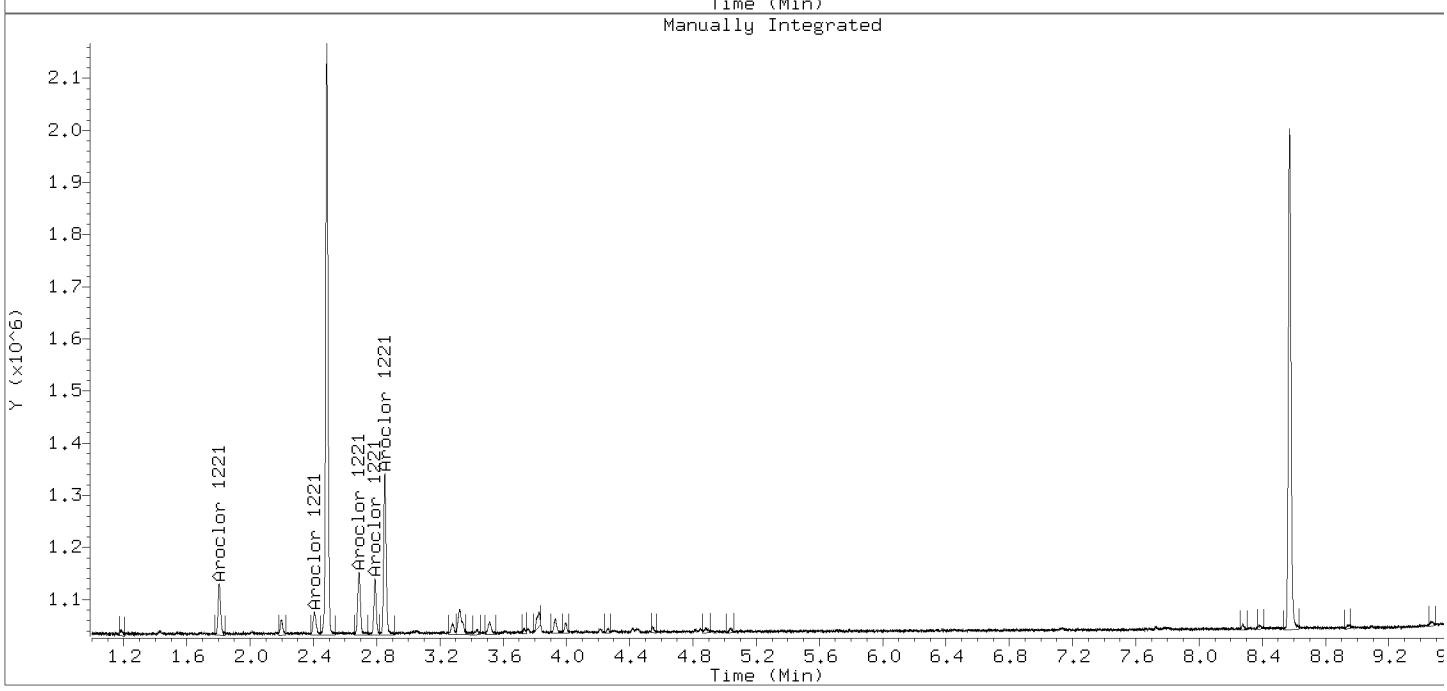
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

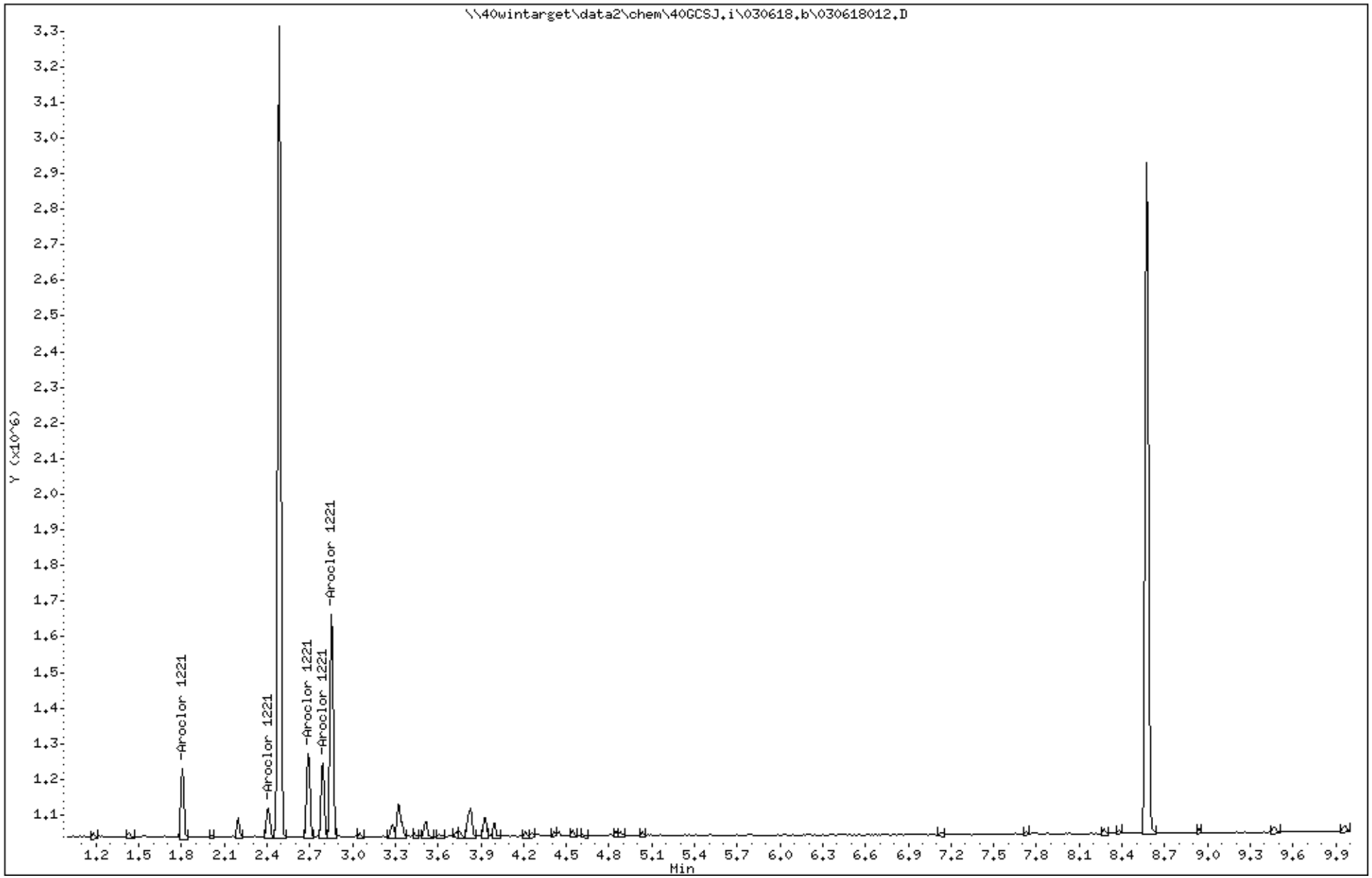
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

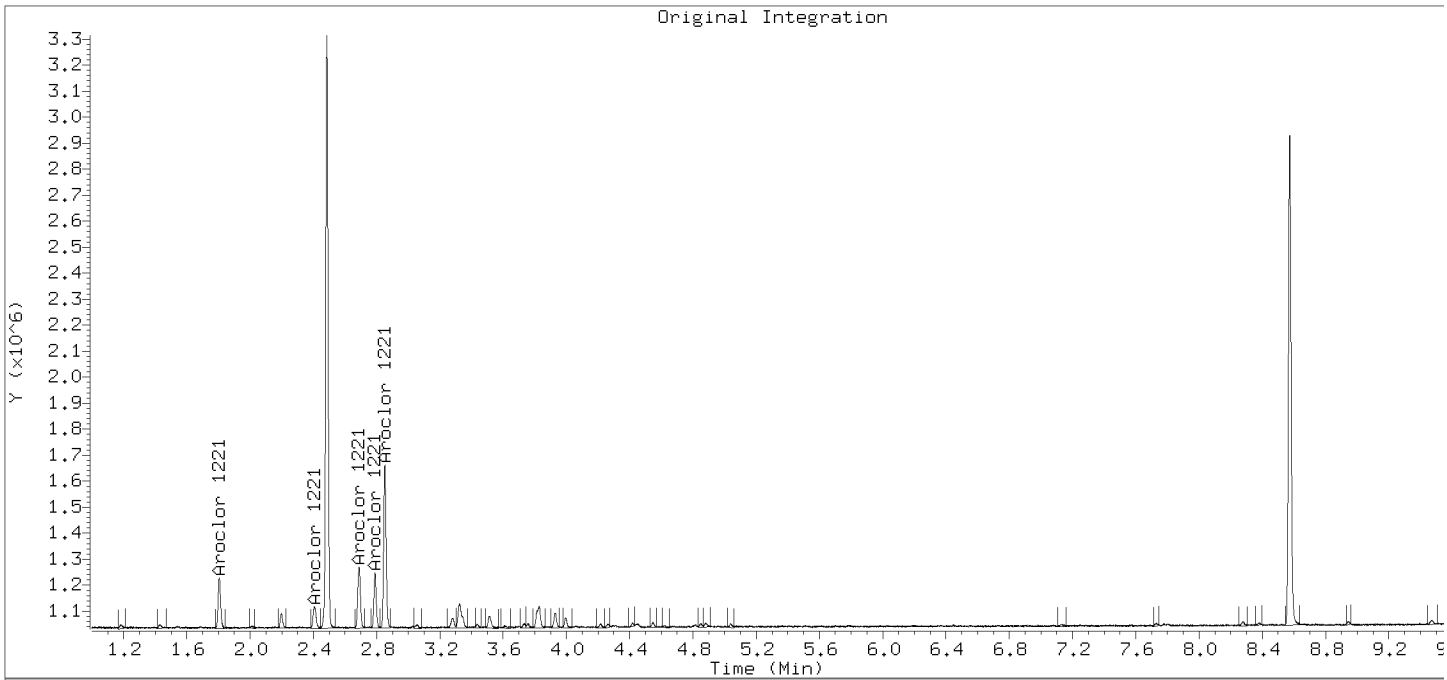
Operator: BLM

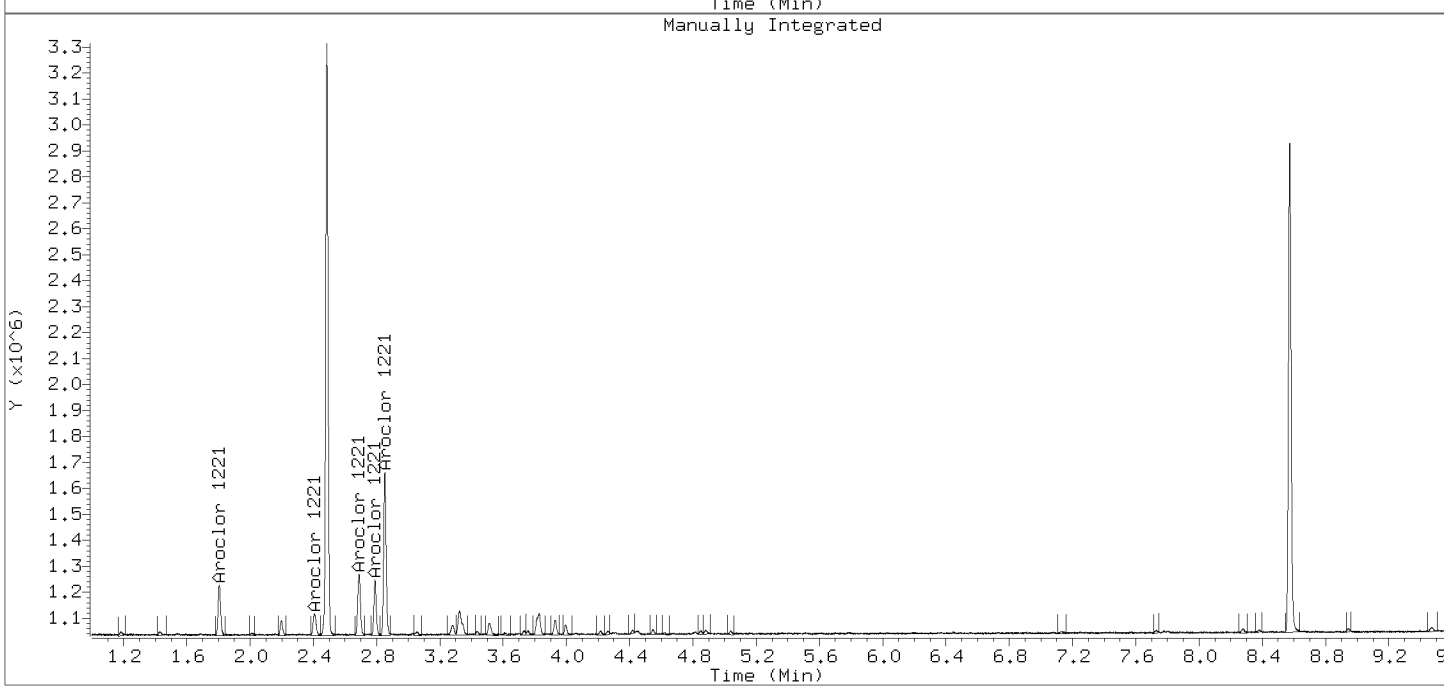
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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

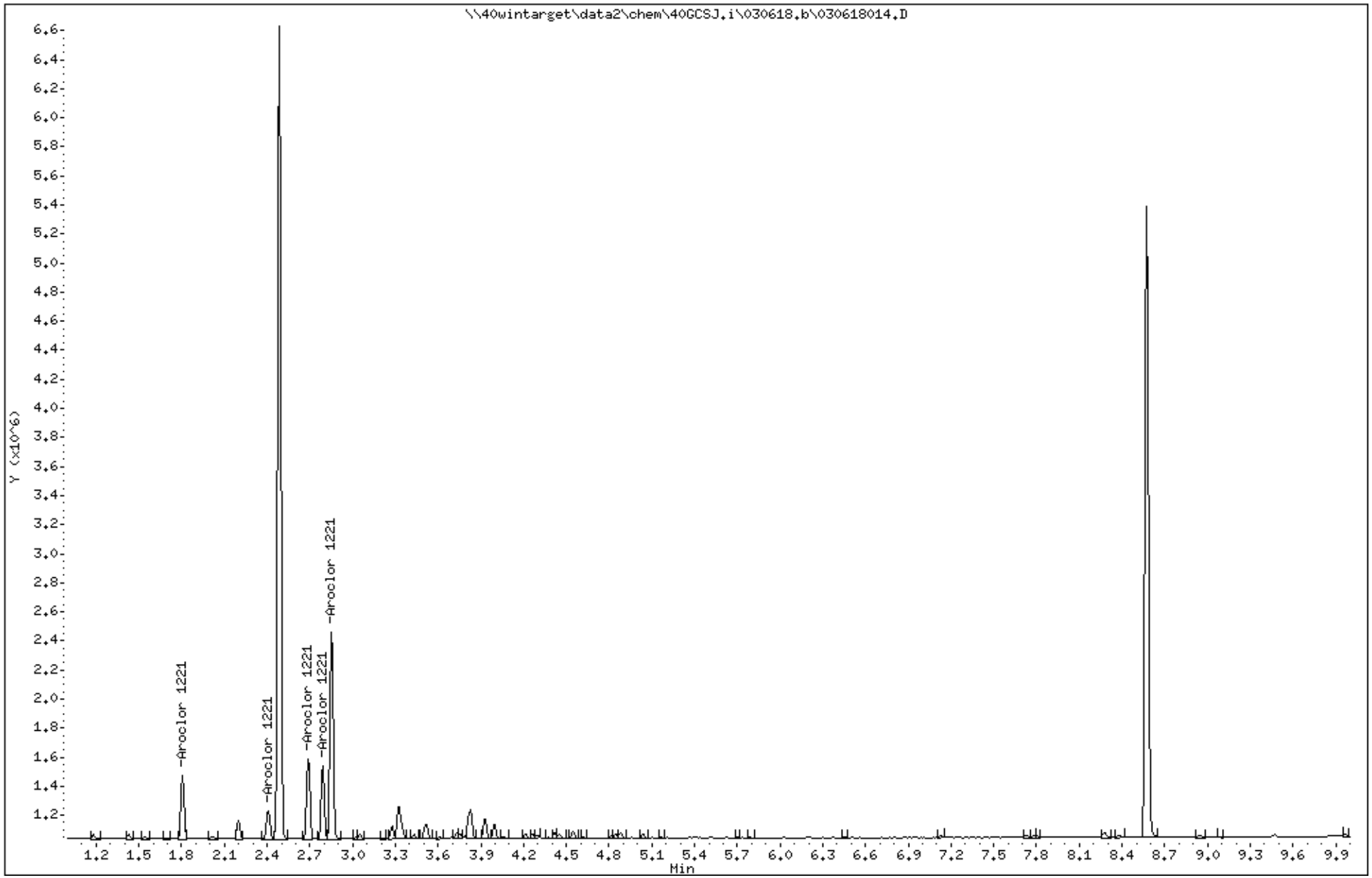
M - Compound response manually integrated.

Review Codes Legend

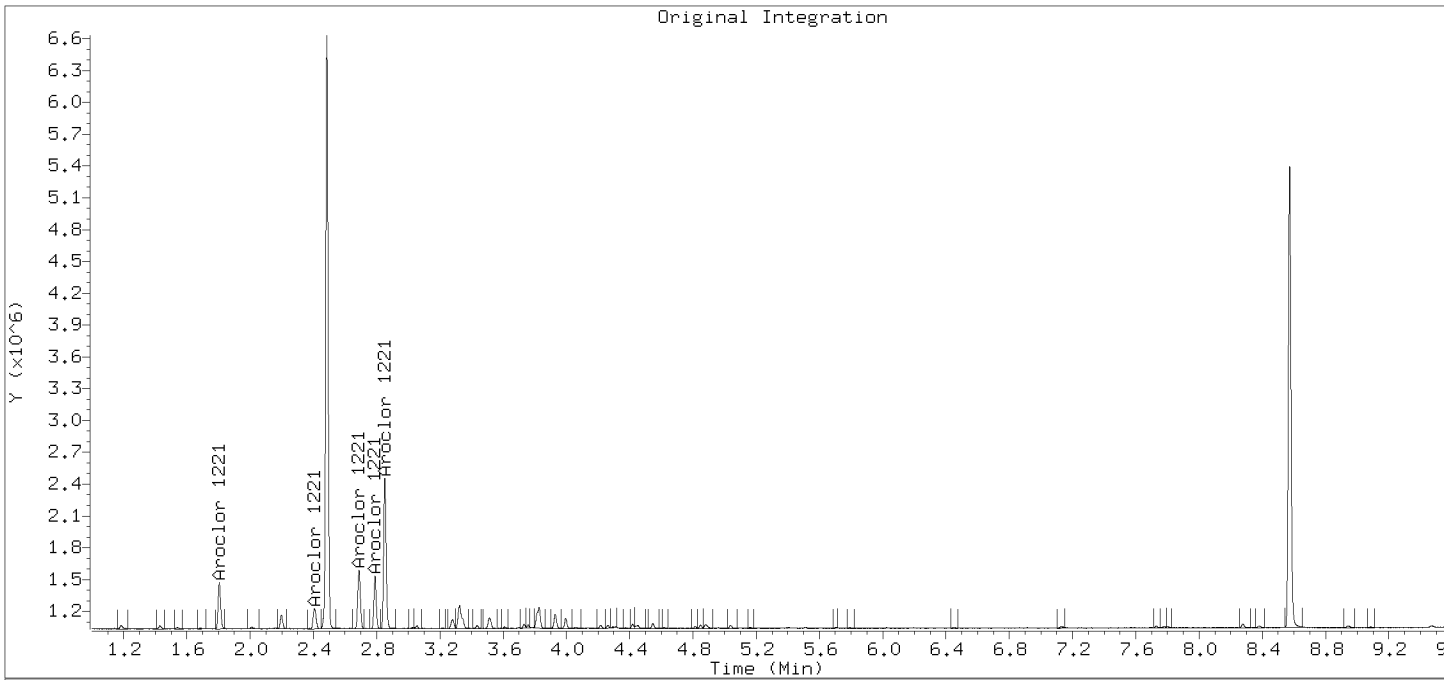
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

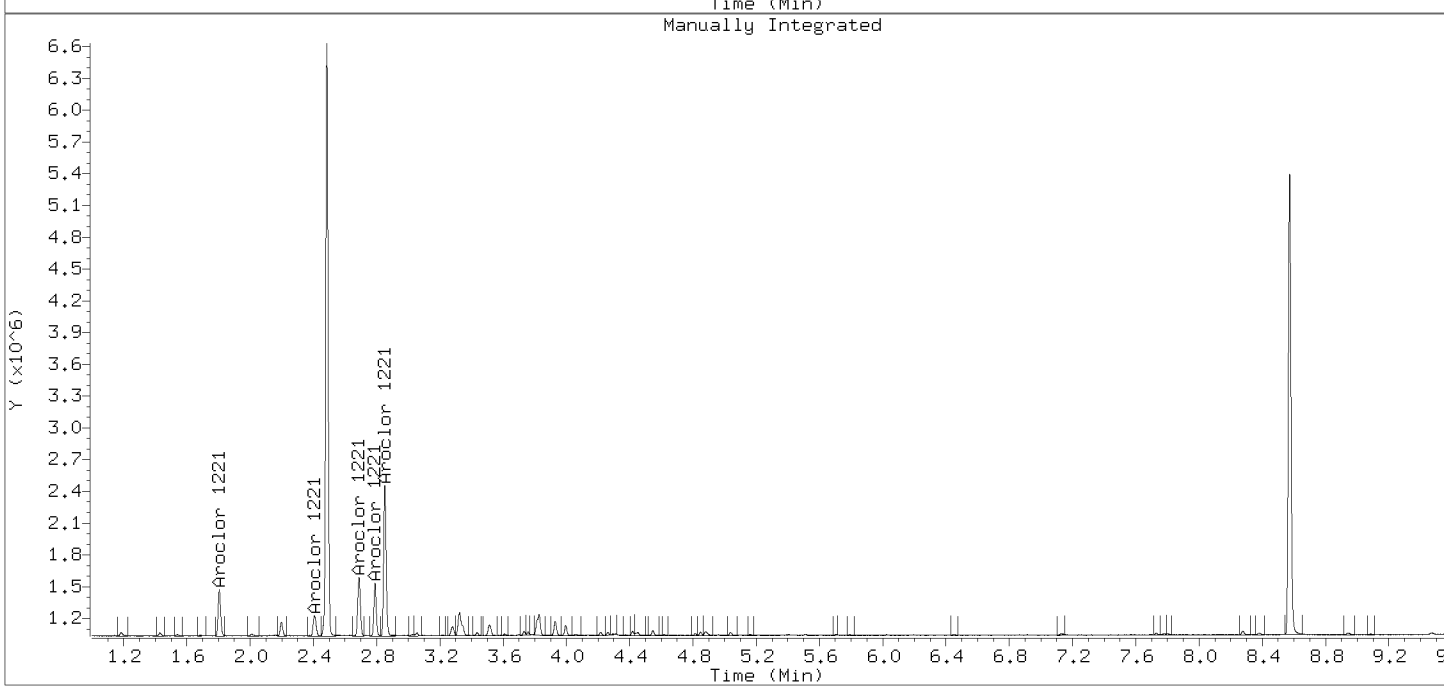
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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

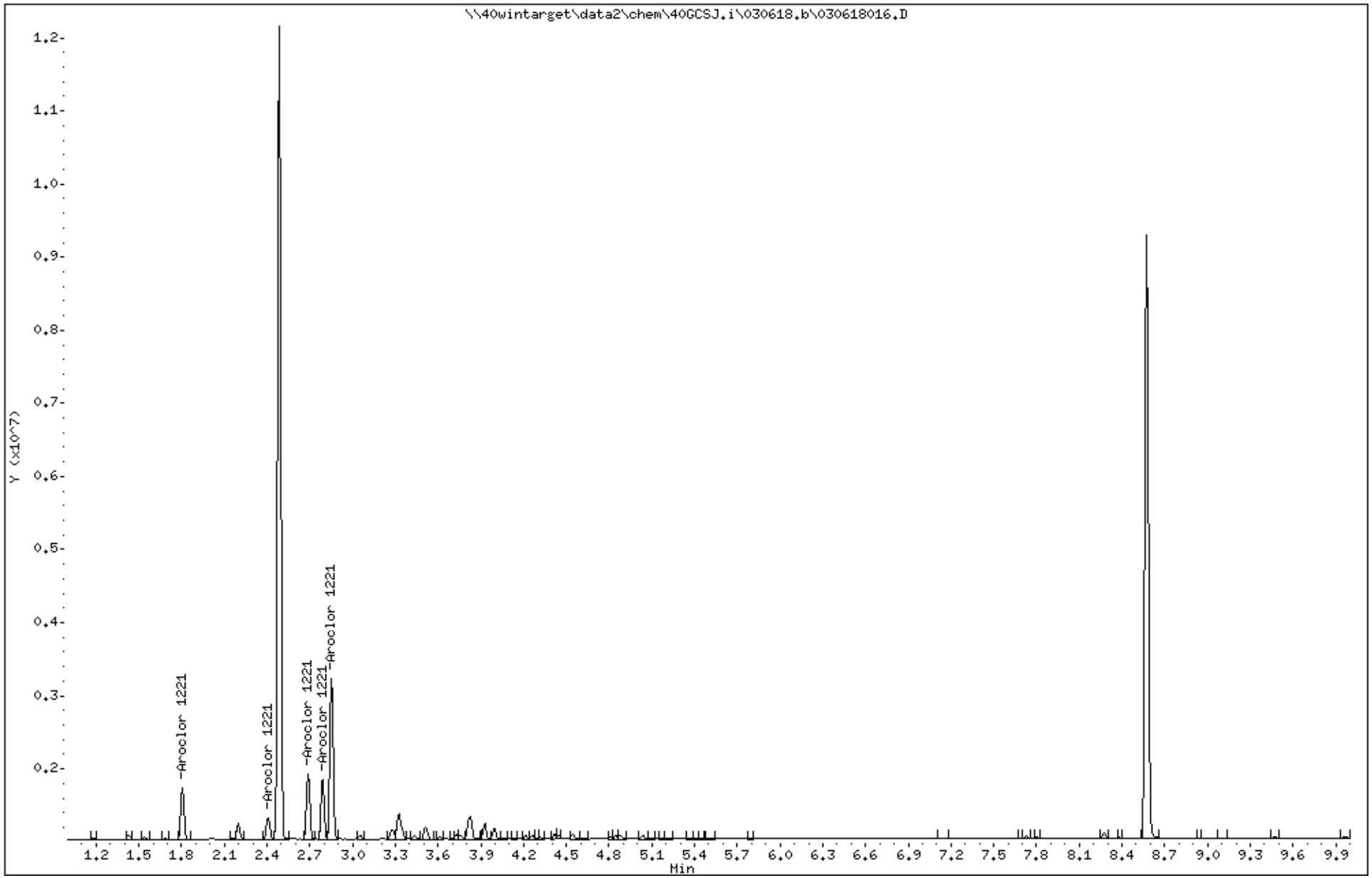
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

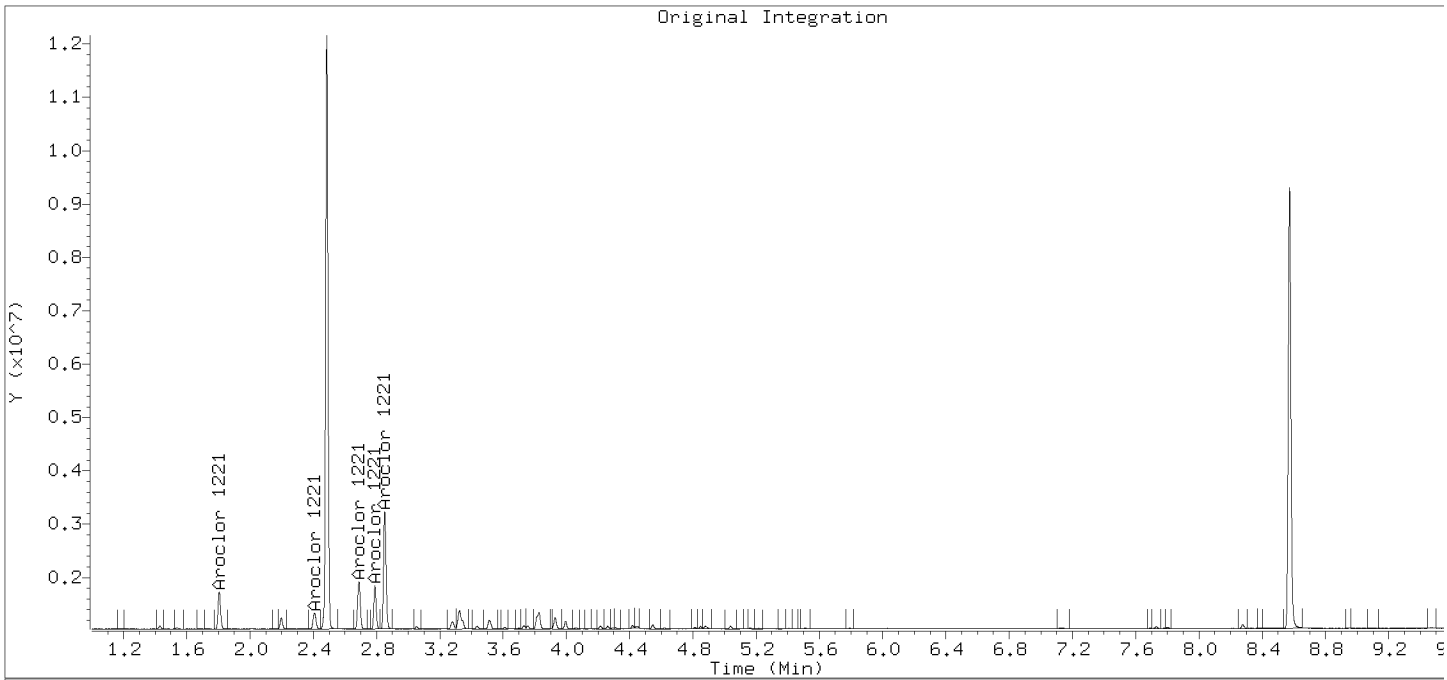
Operator: BLM

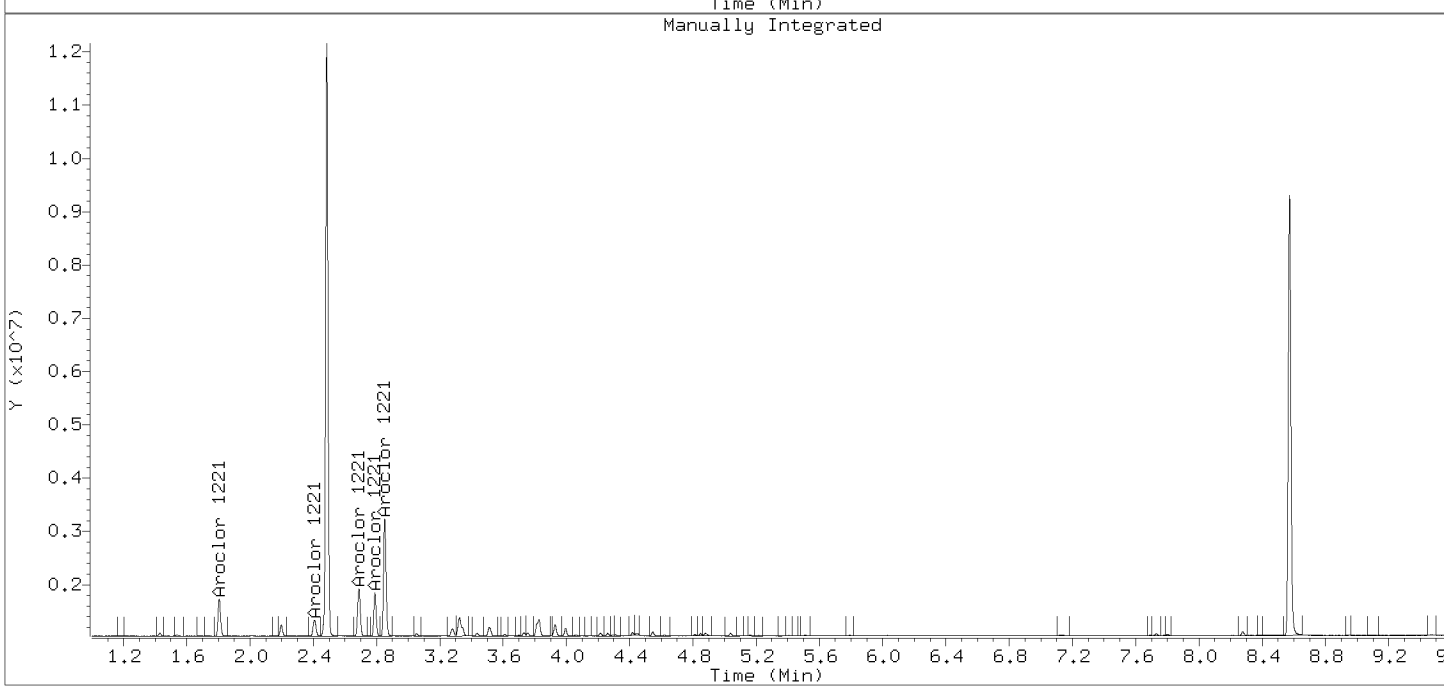
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

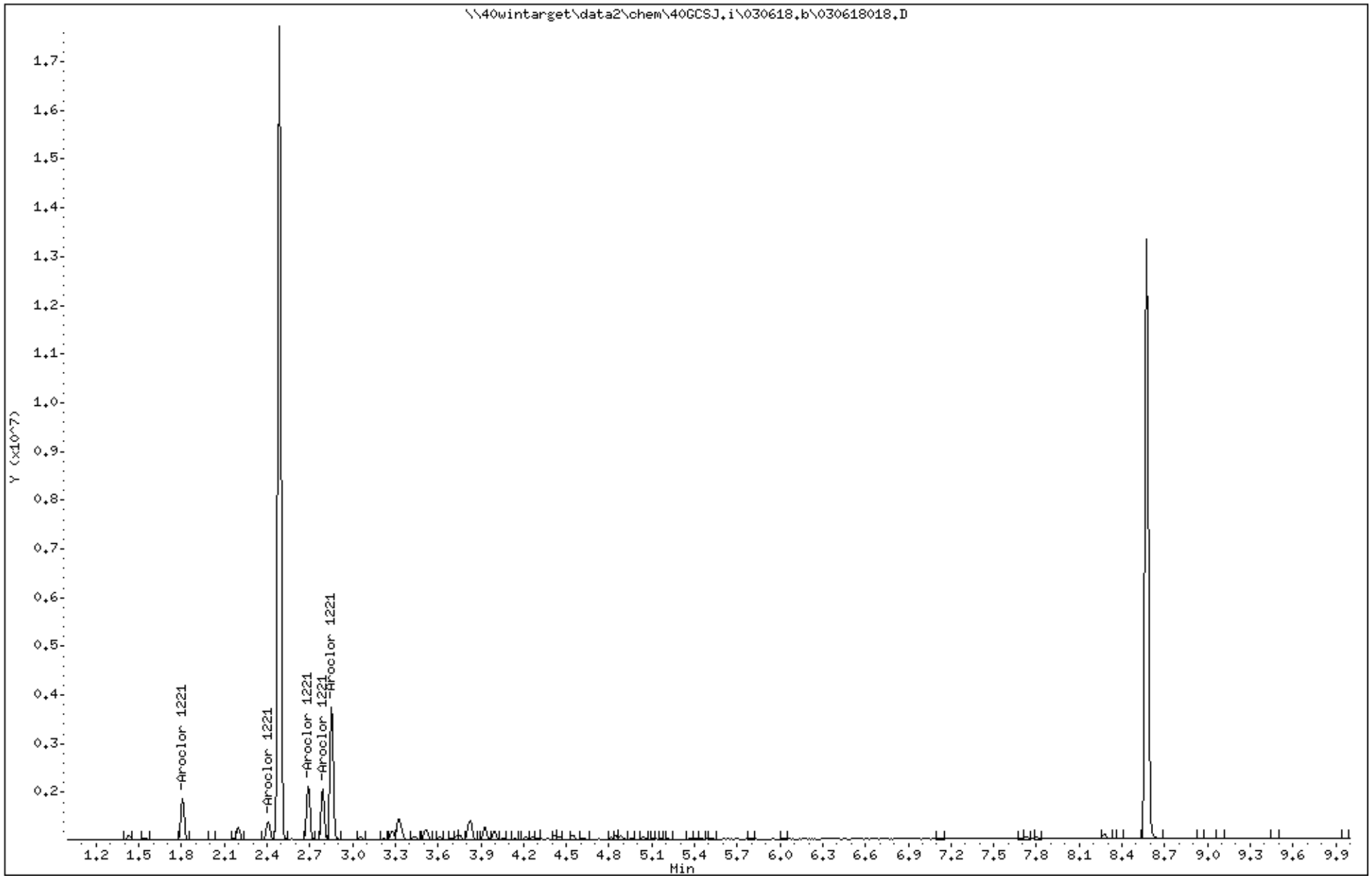
M - Compound response manually integrated.

Review Codes Legend

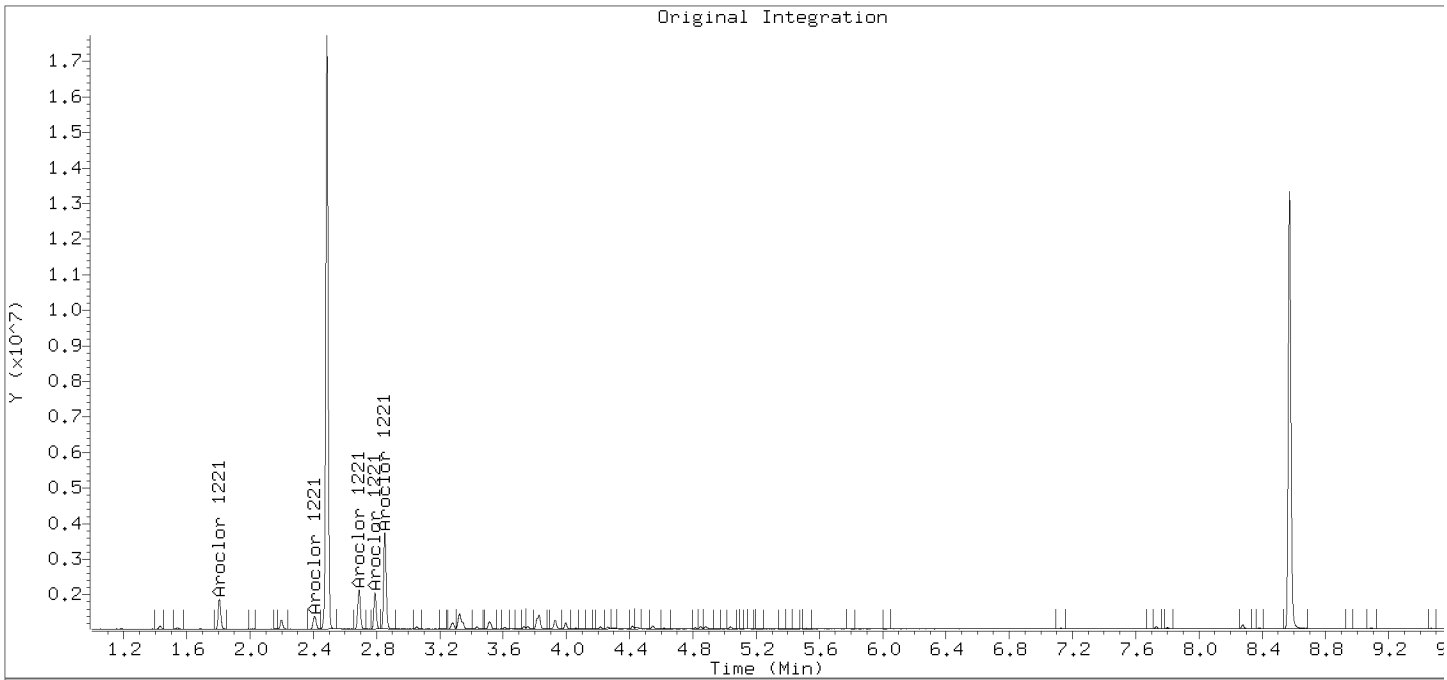
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

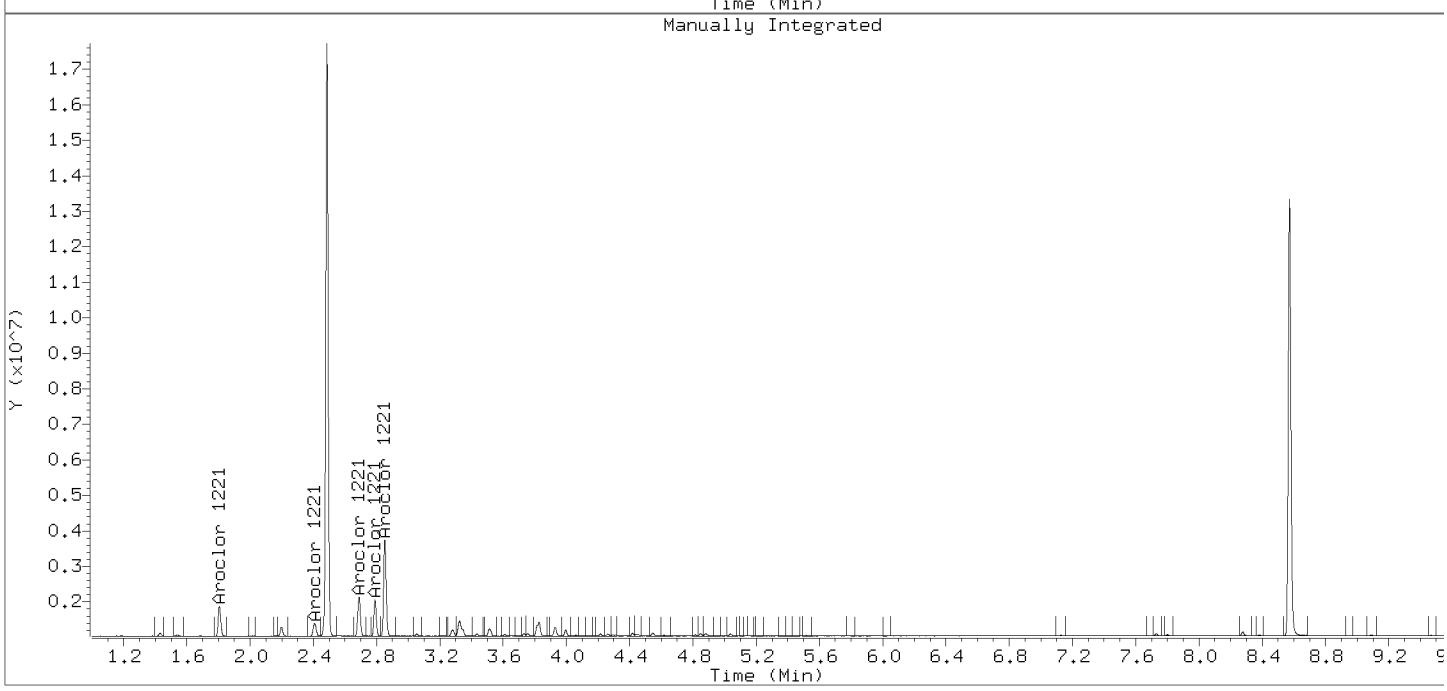
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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

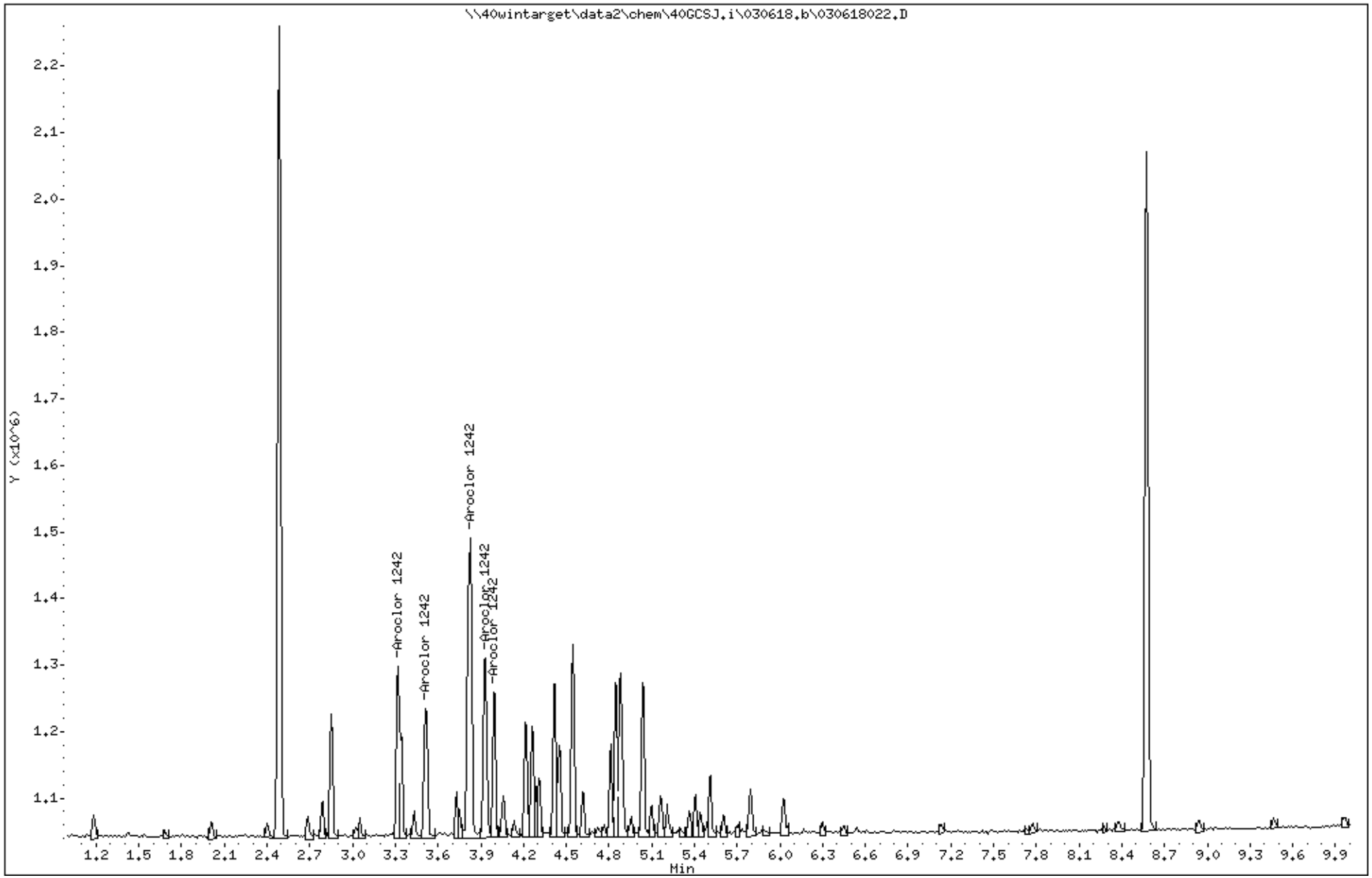
M - Compound response manually integrated.

Review Codes Legend

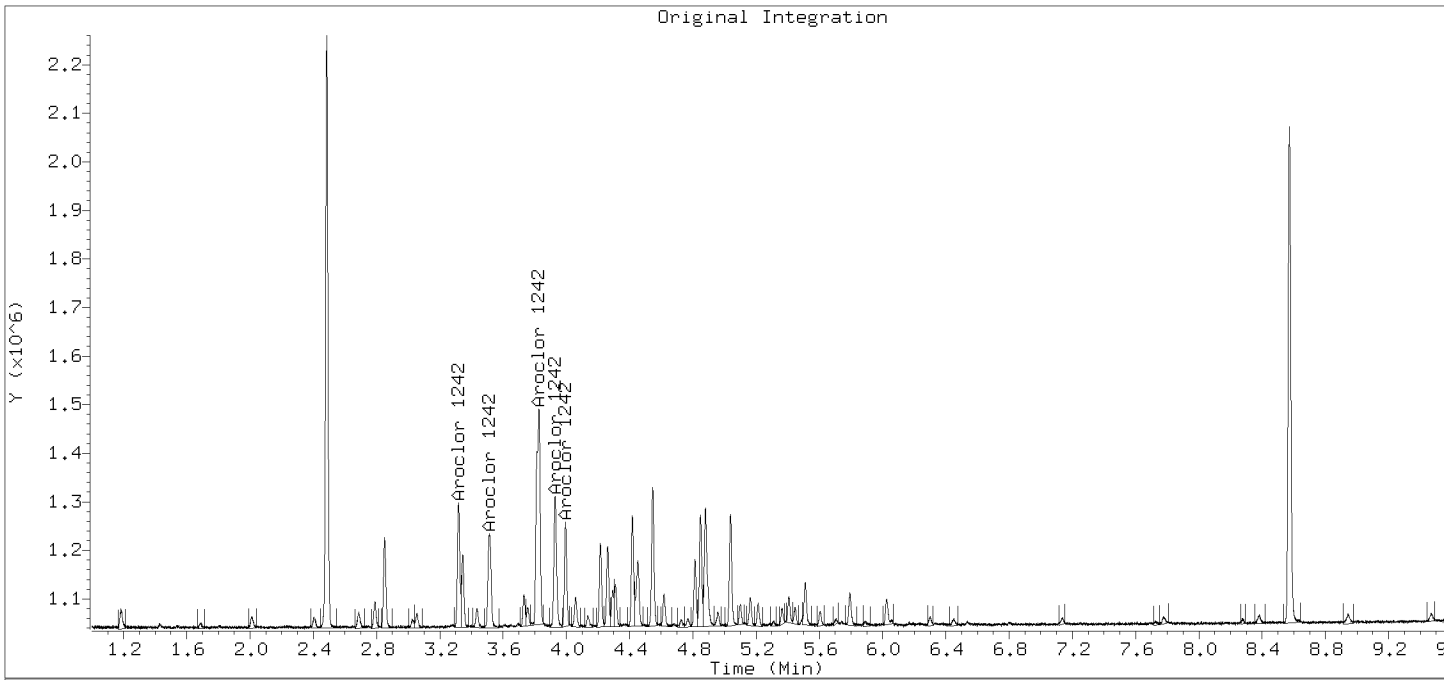
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

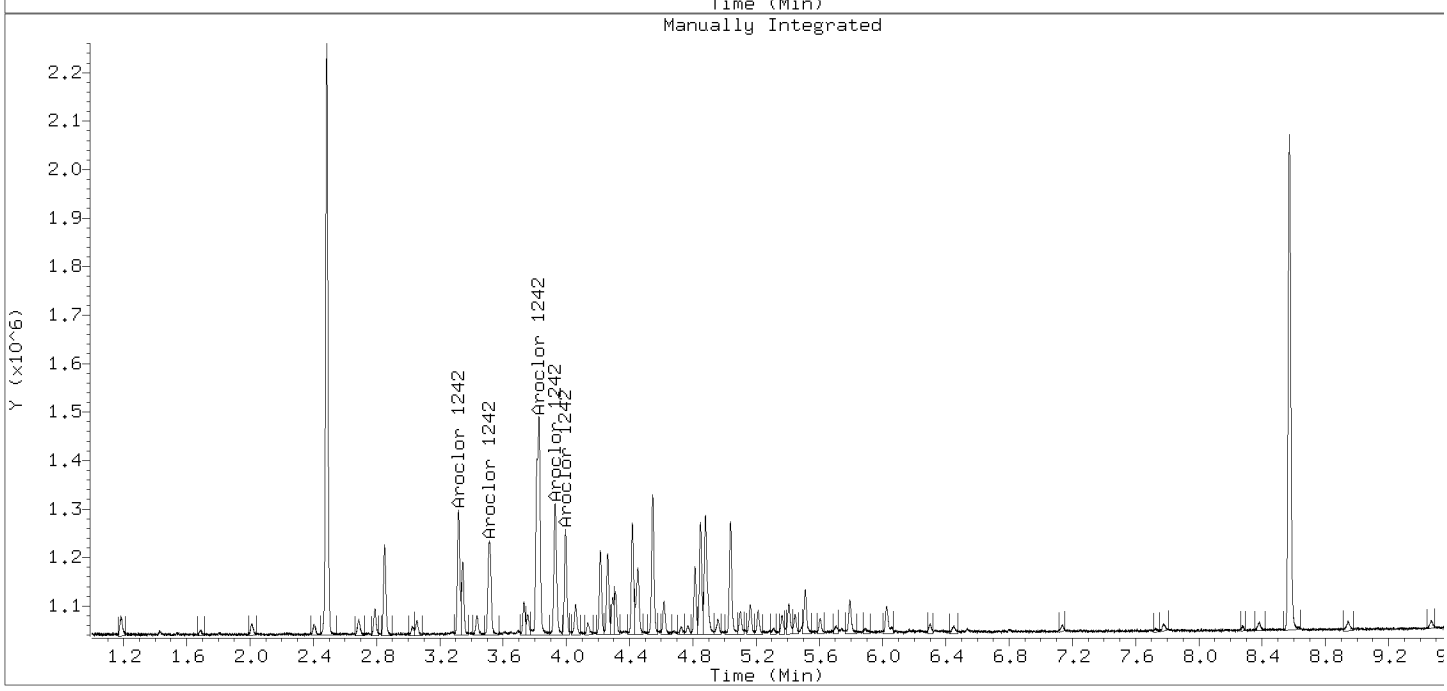
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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

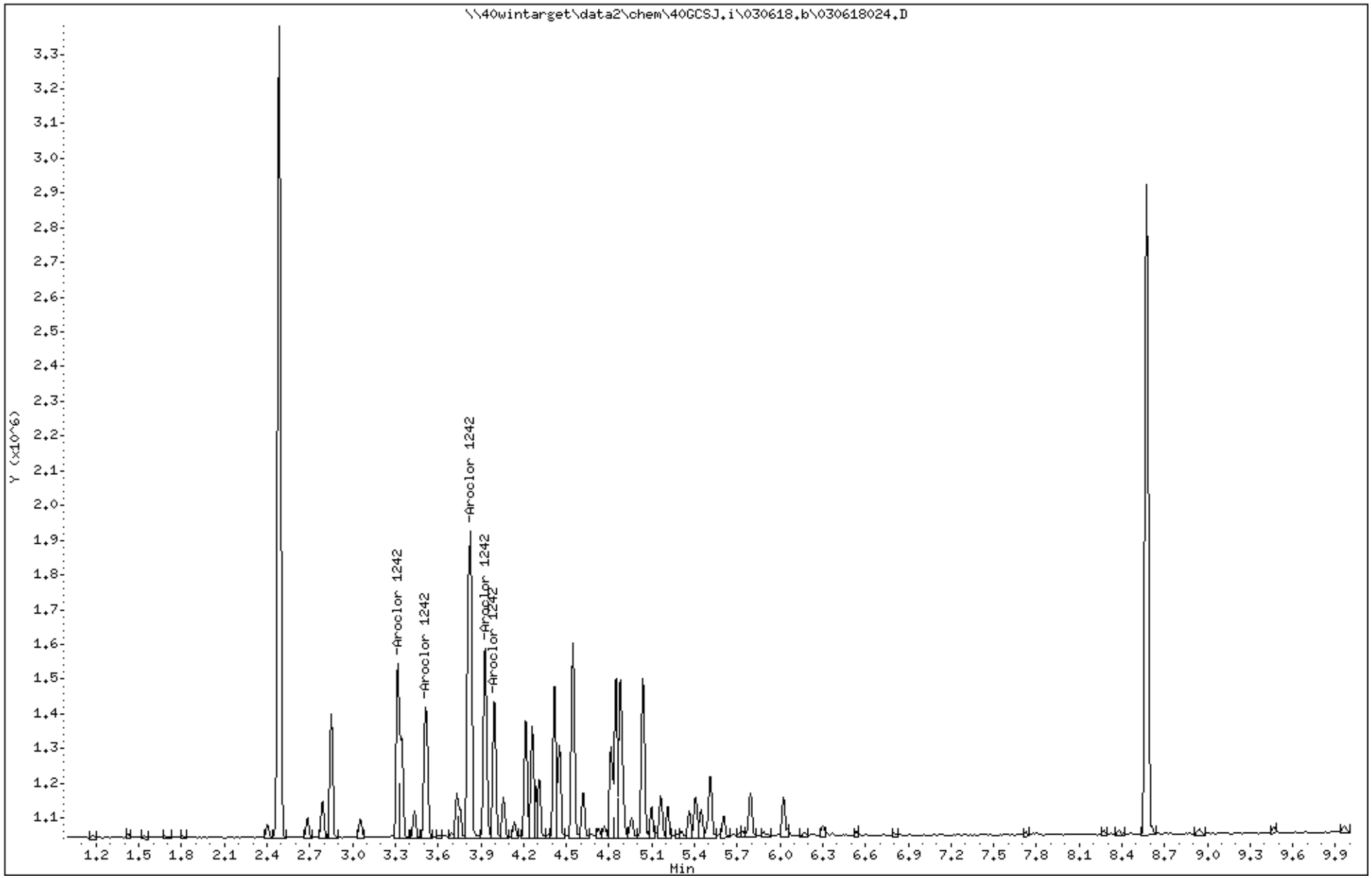
M - Compound response manually integrated.

Review Codes Legend

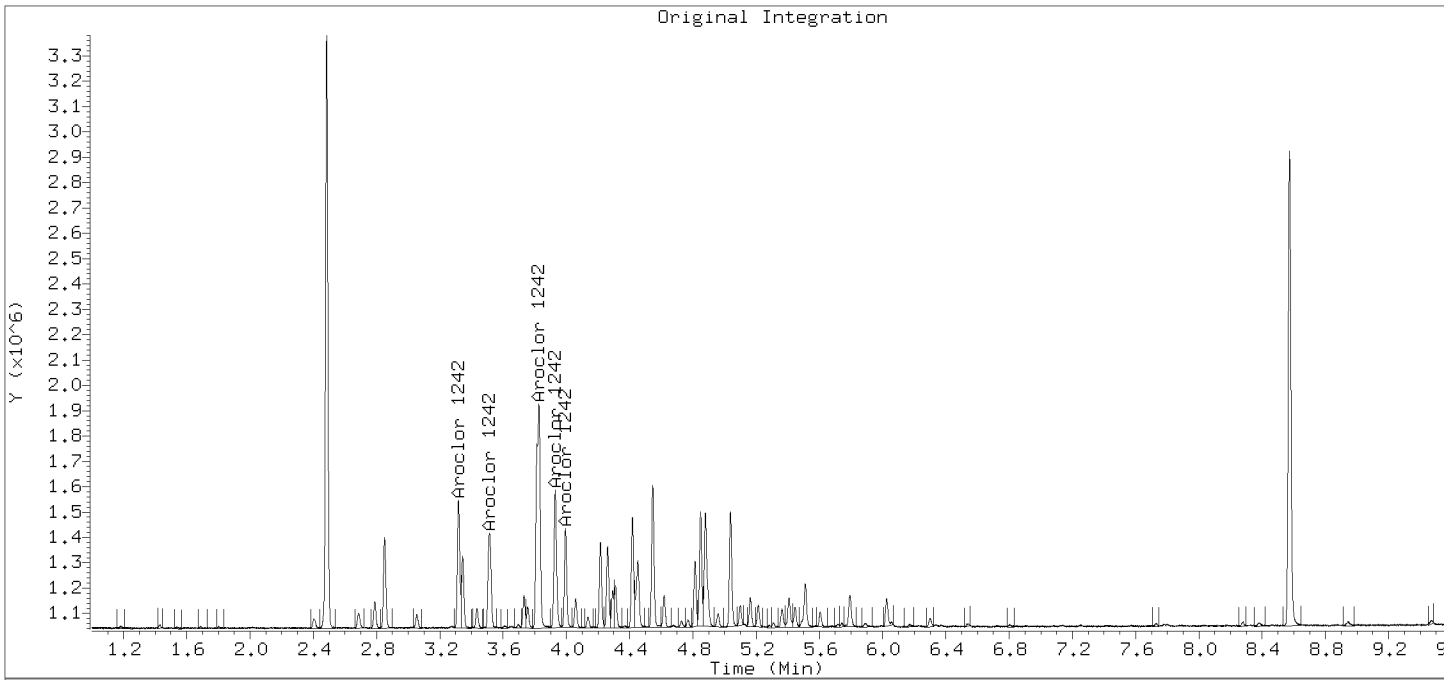
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

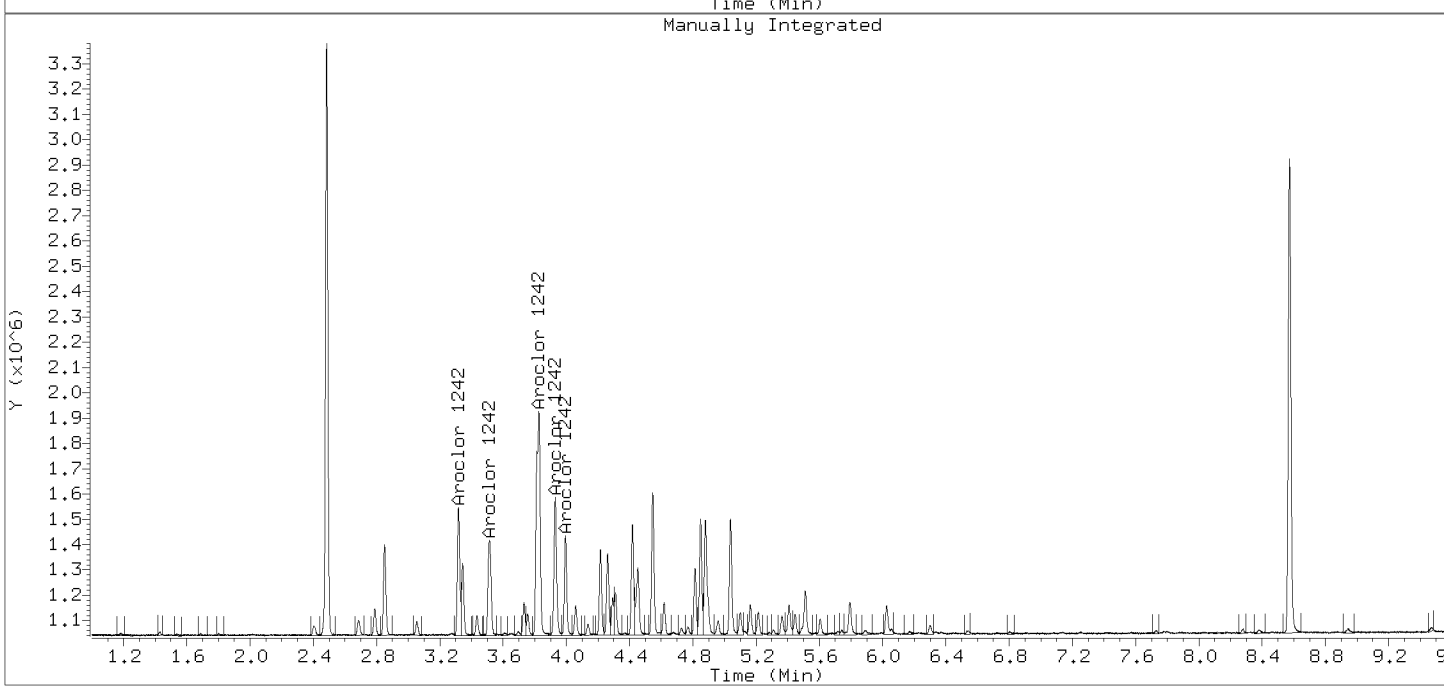
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

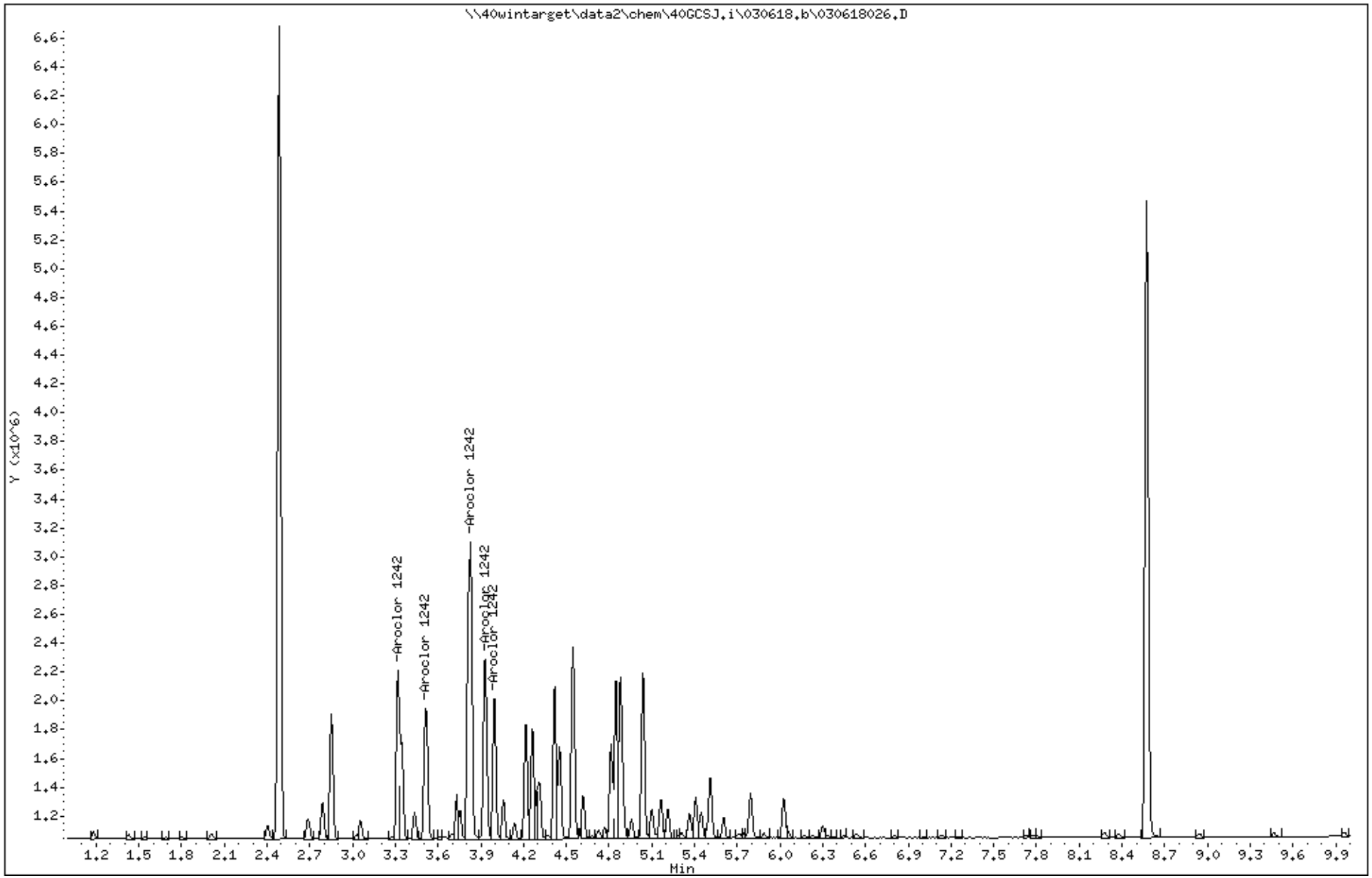
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

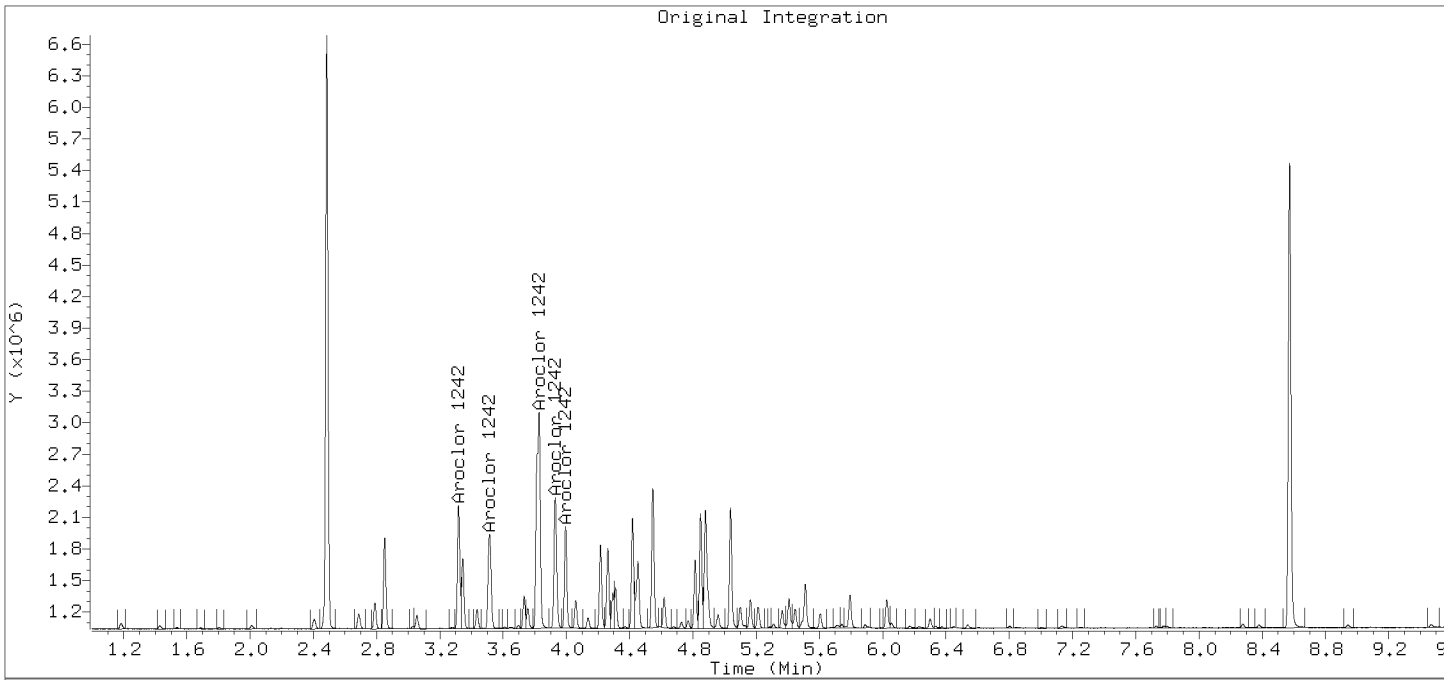
Operator: BLM

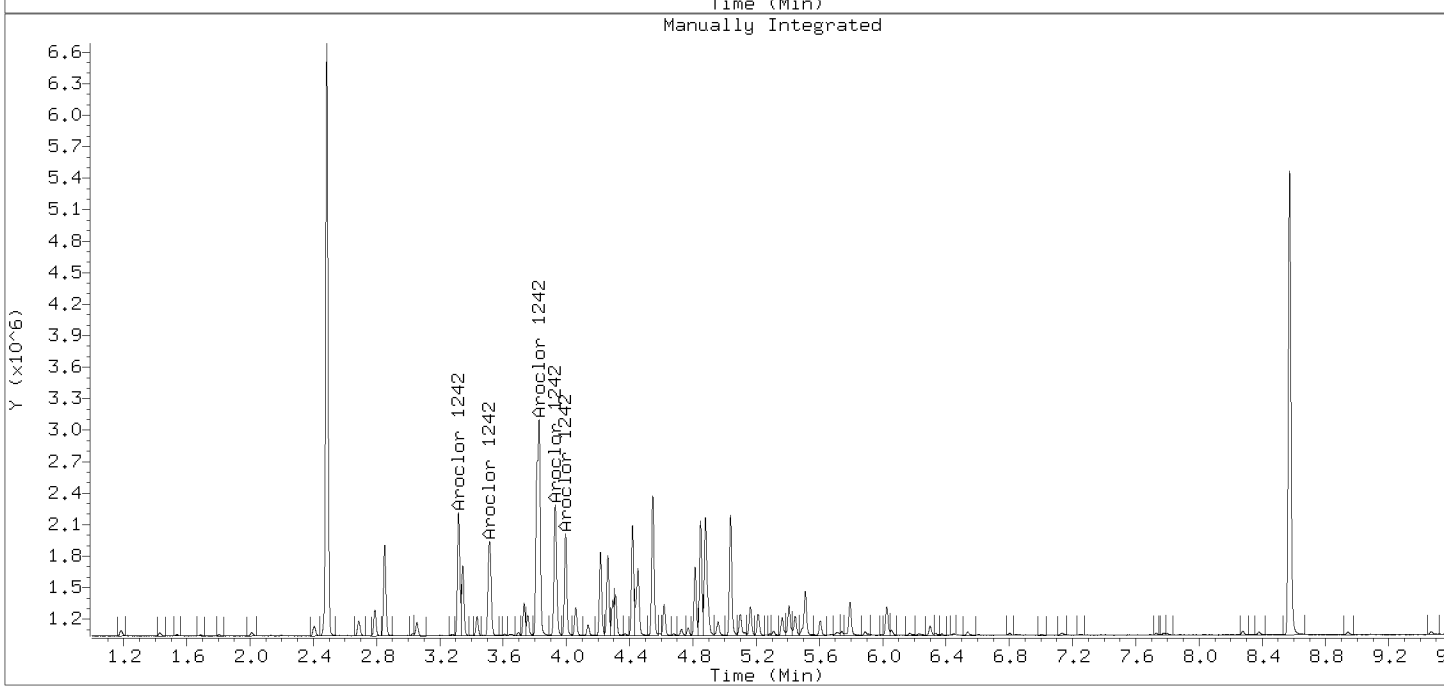
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

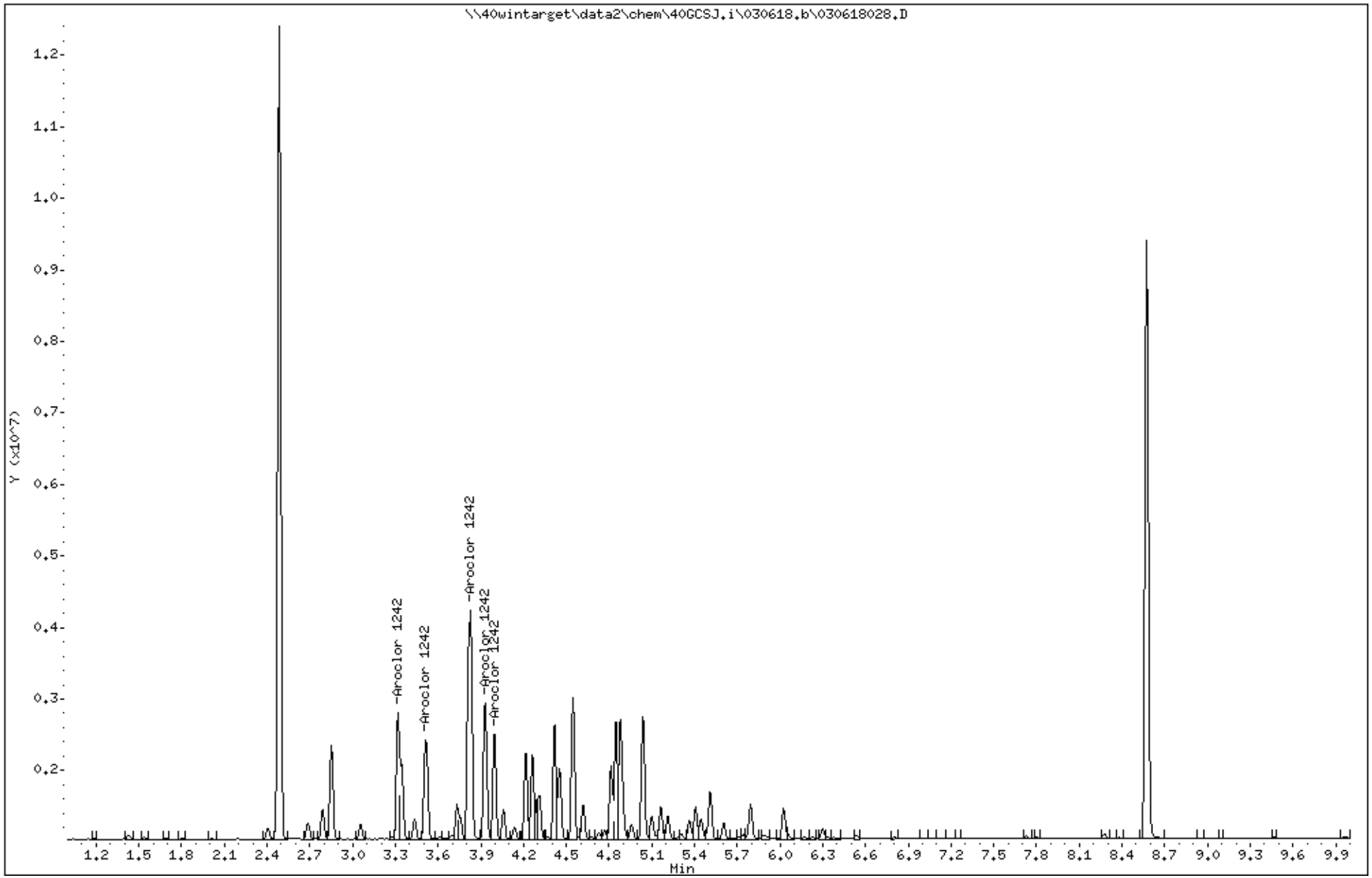
M - Compound response manually integrated.

Review Codes Legend

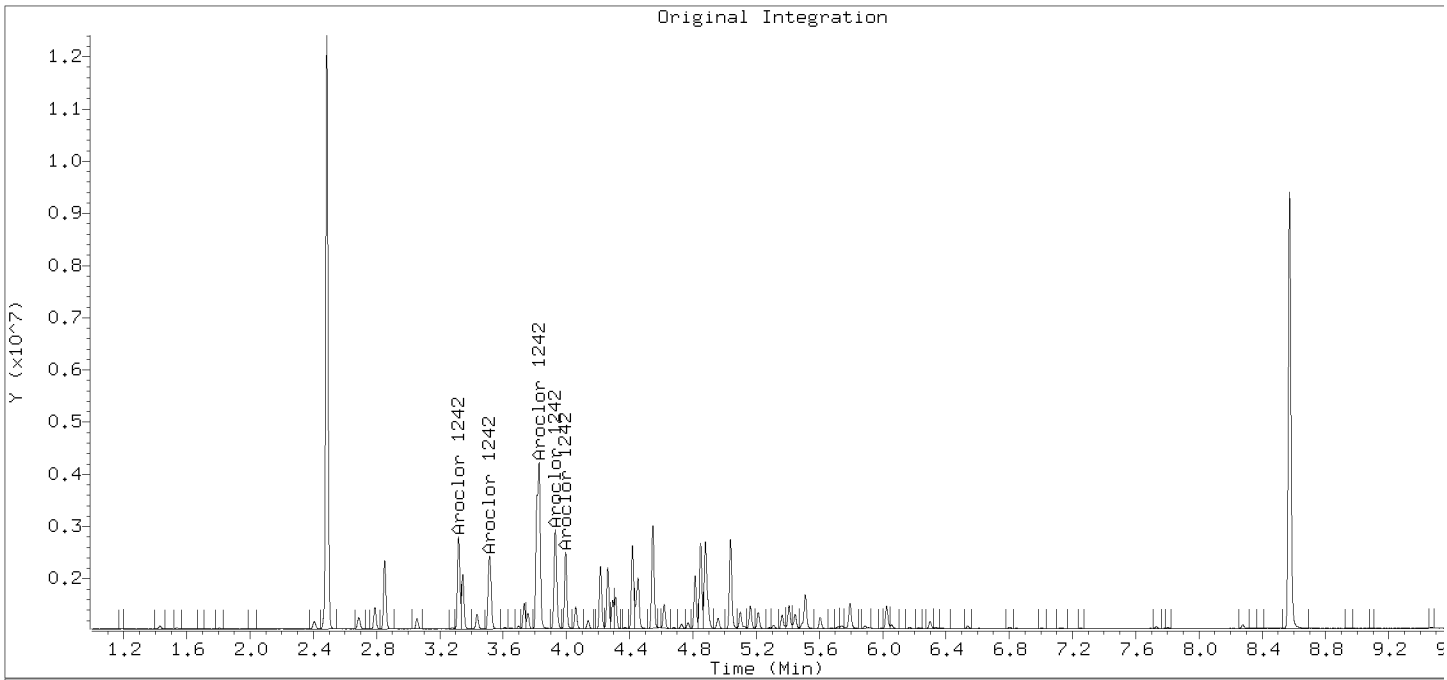
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

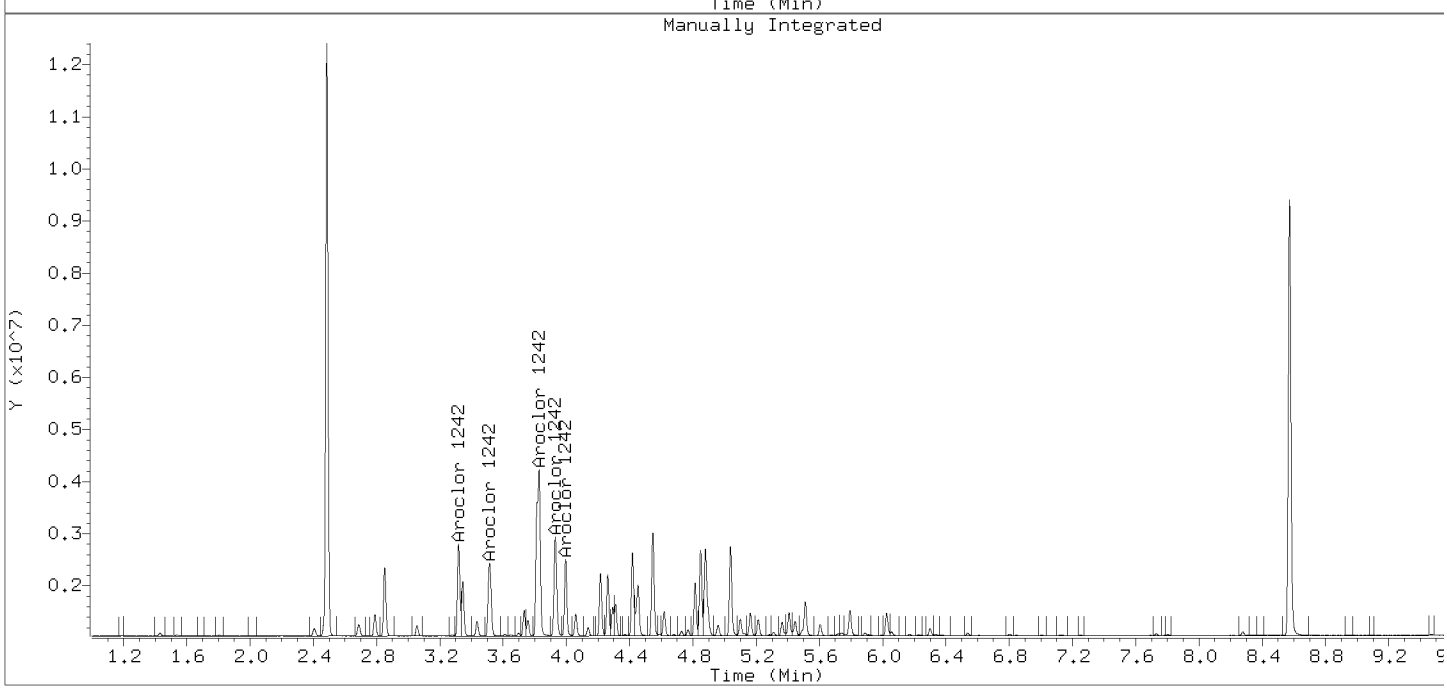
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Date : 06-MAR-2018 14:32
Client ID: 1242-CAL4B
Sample Info: 1242-CAL4B, 185545:1

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

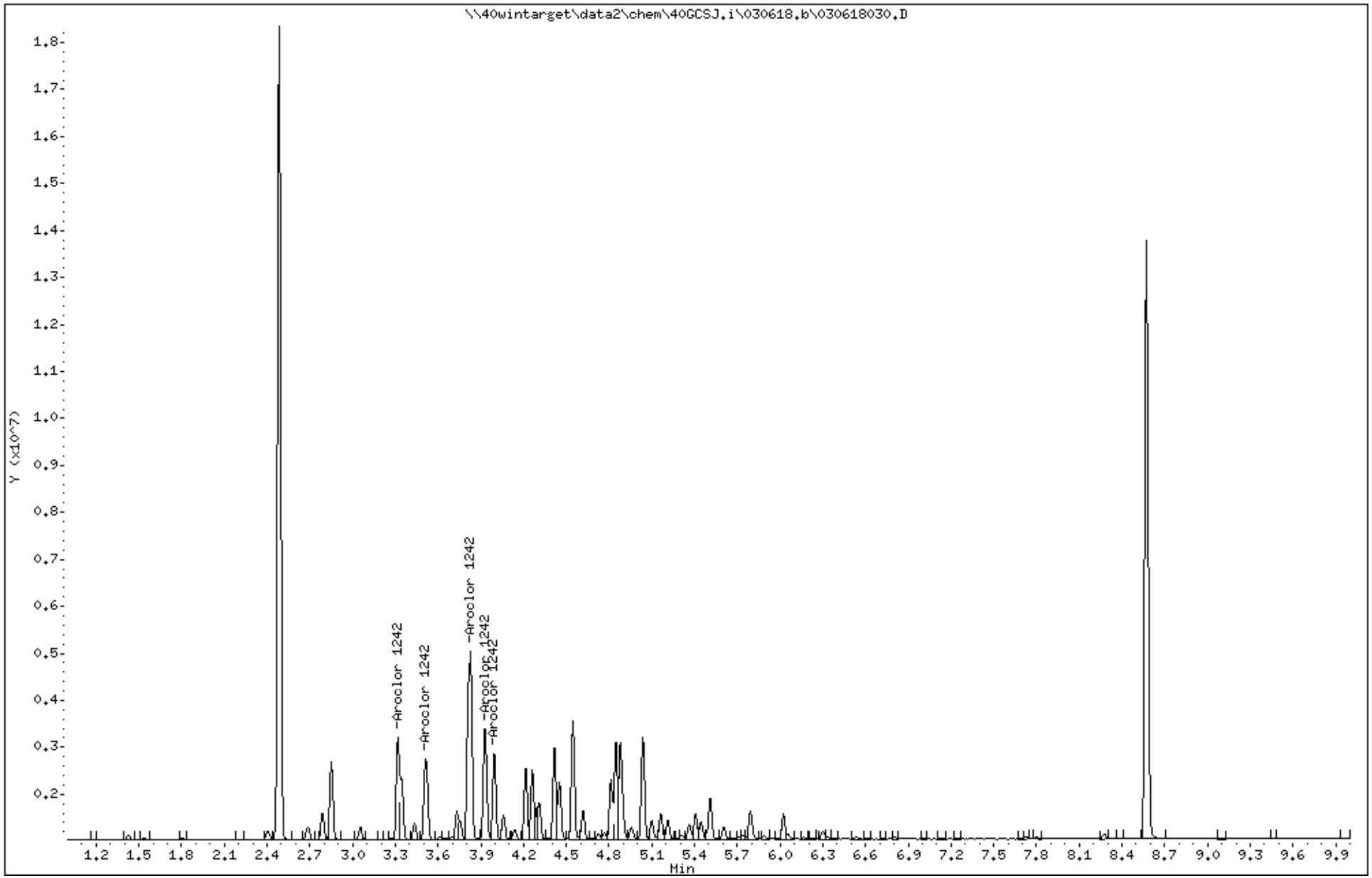
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

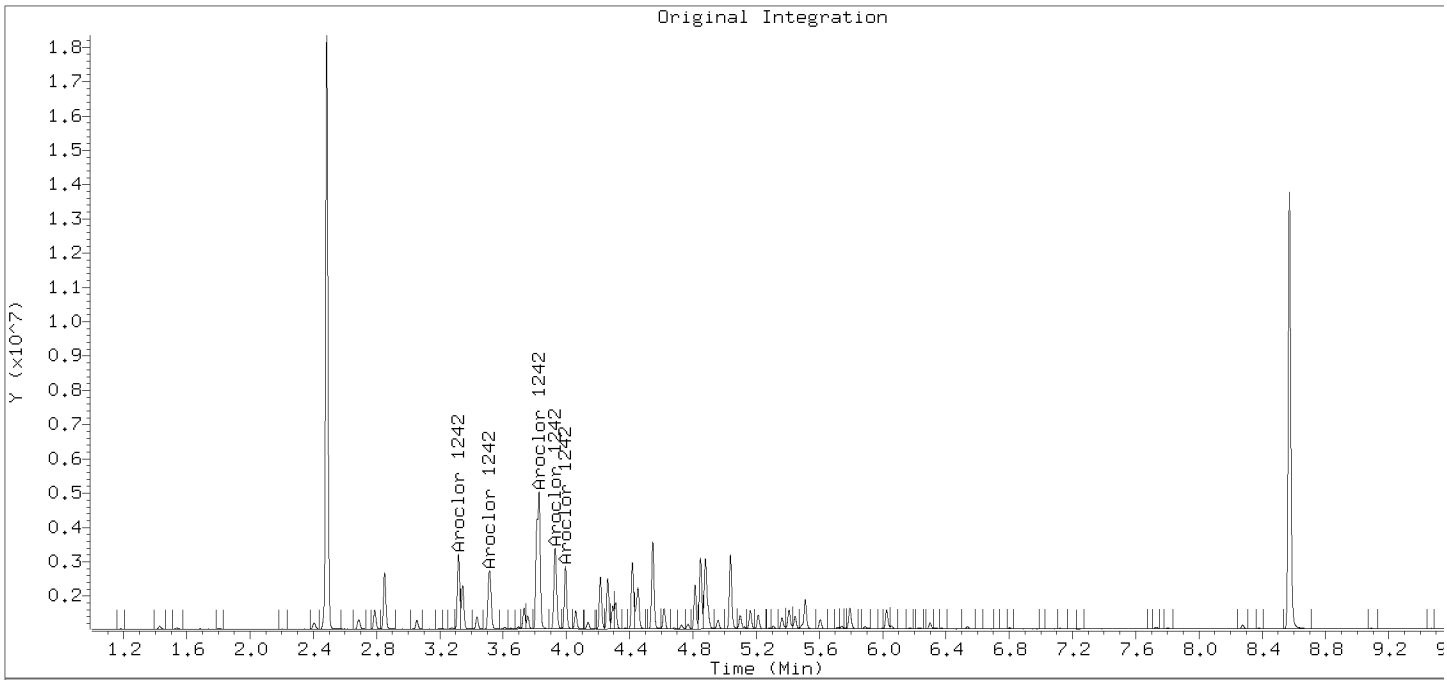
Operator: BLM

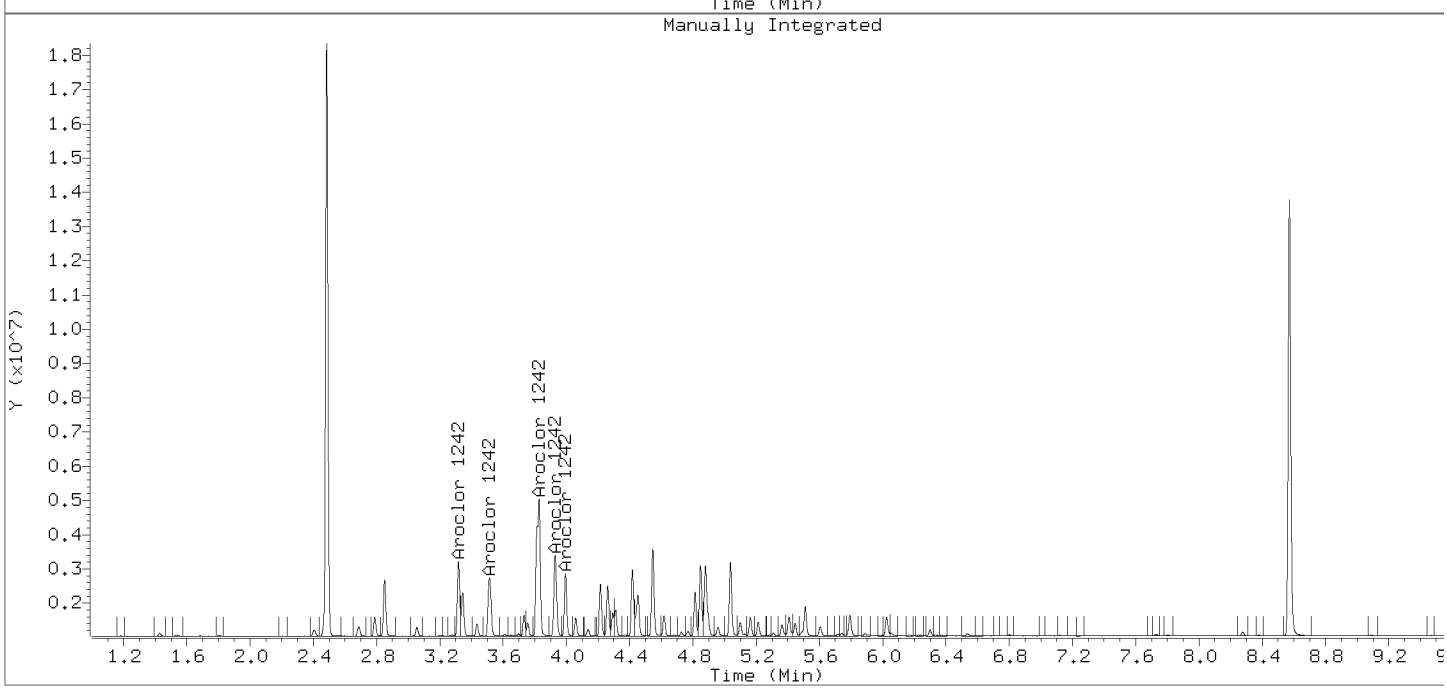
Column phase: ZB-1ms

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

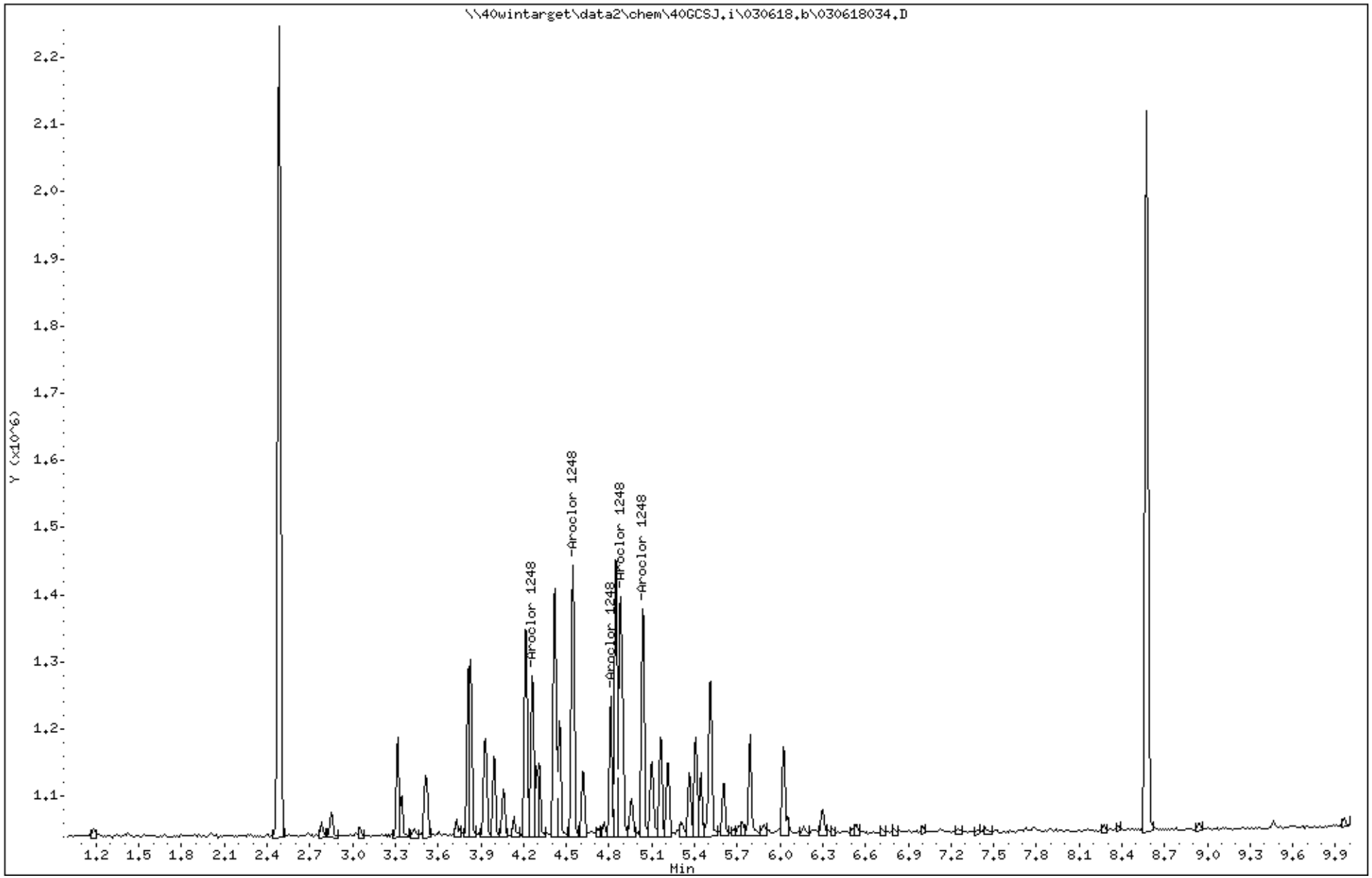
Instrument: 40GCSJ.i

Sample Info: 1248-CAL1D, 188134:1

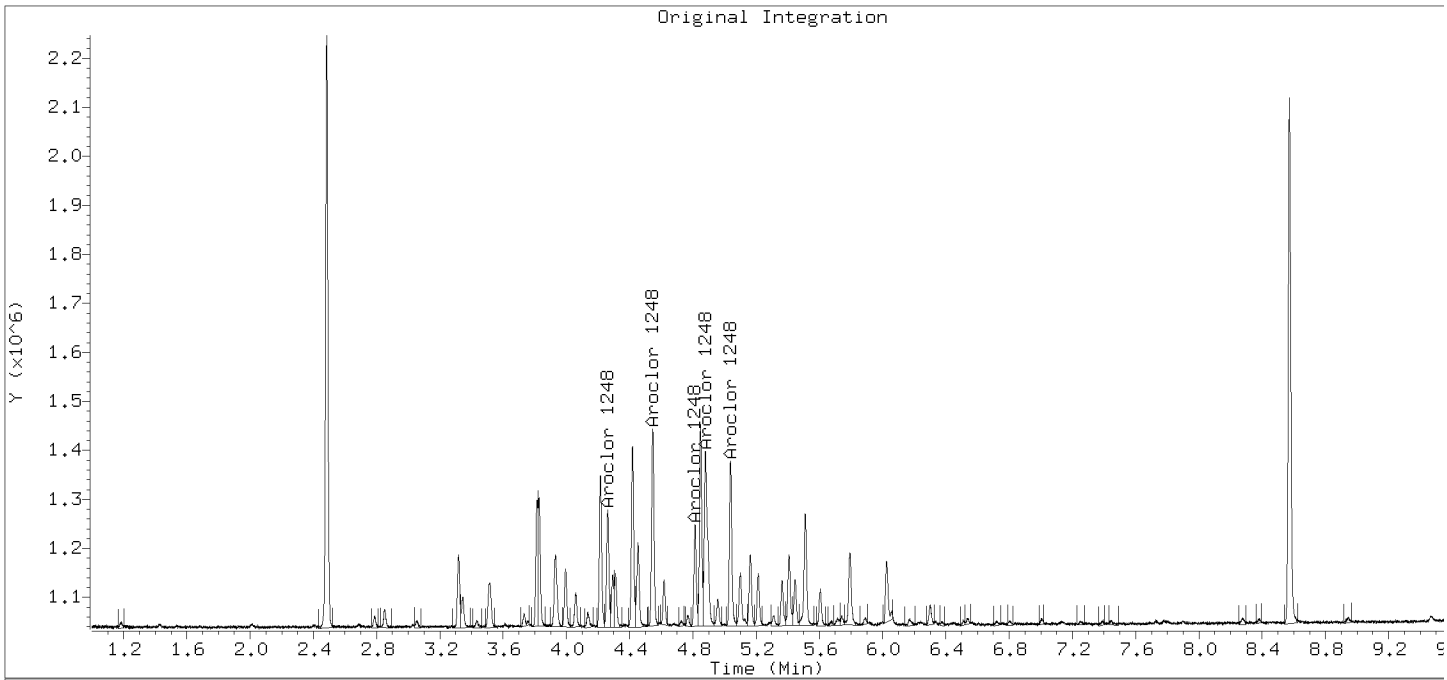
Operator: BLM

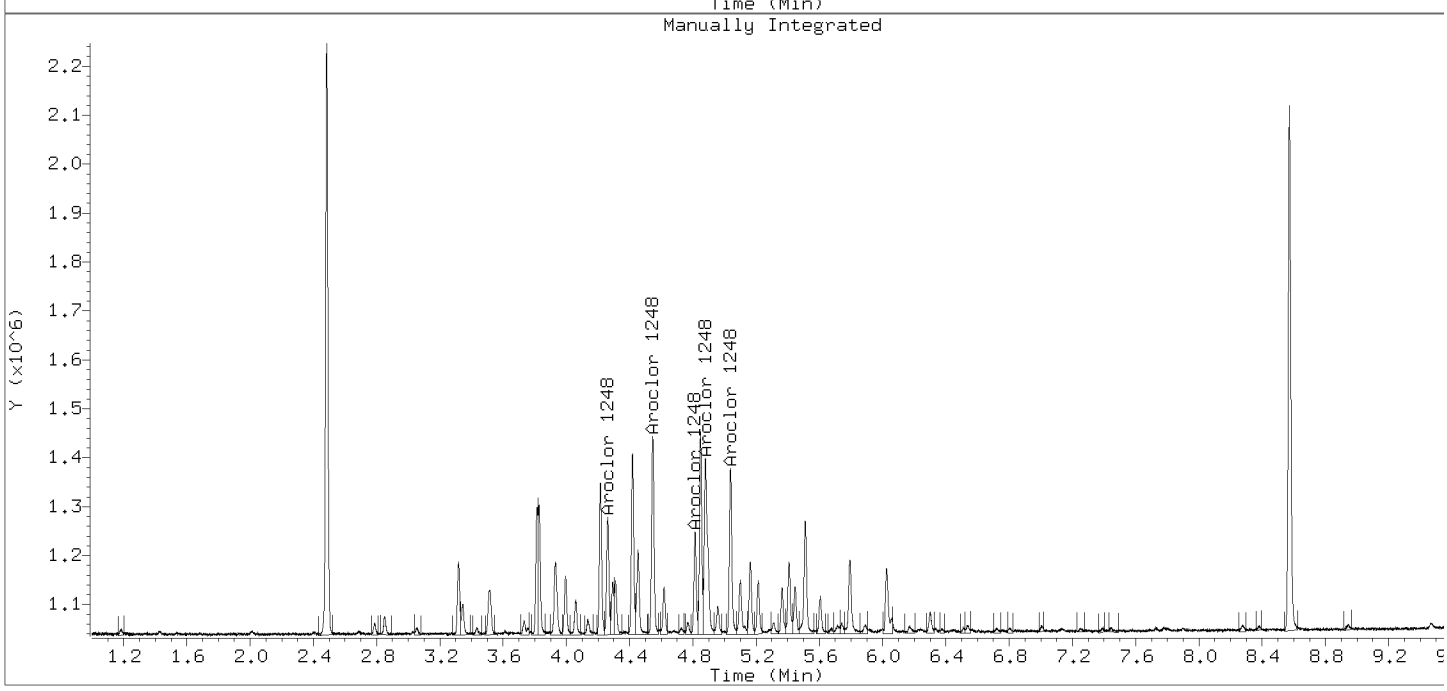
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

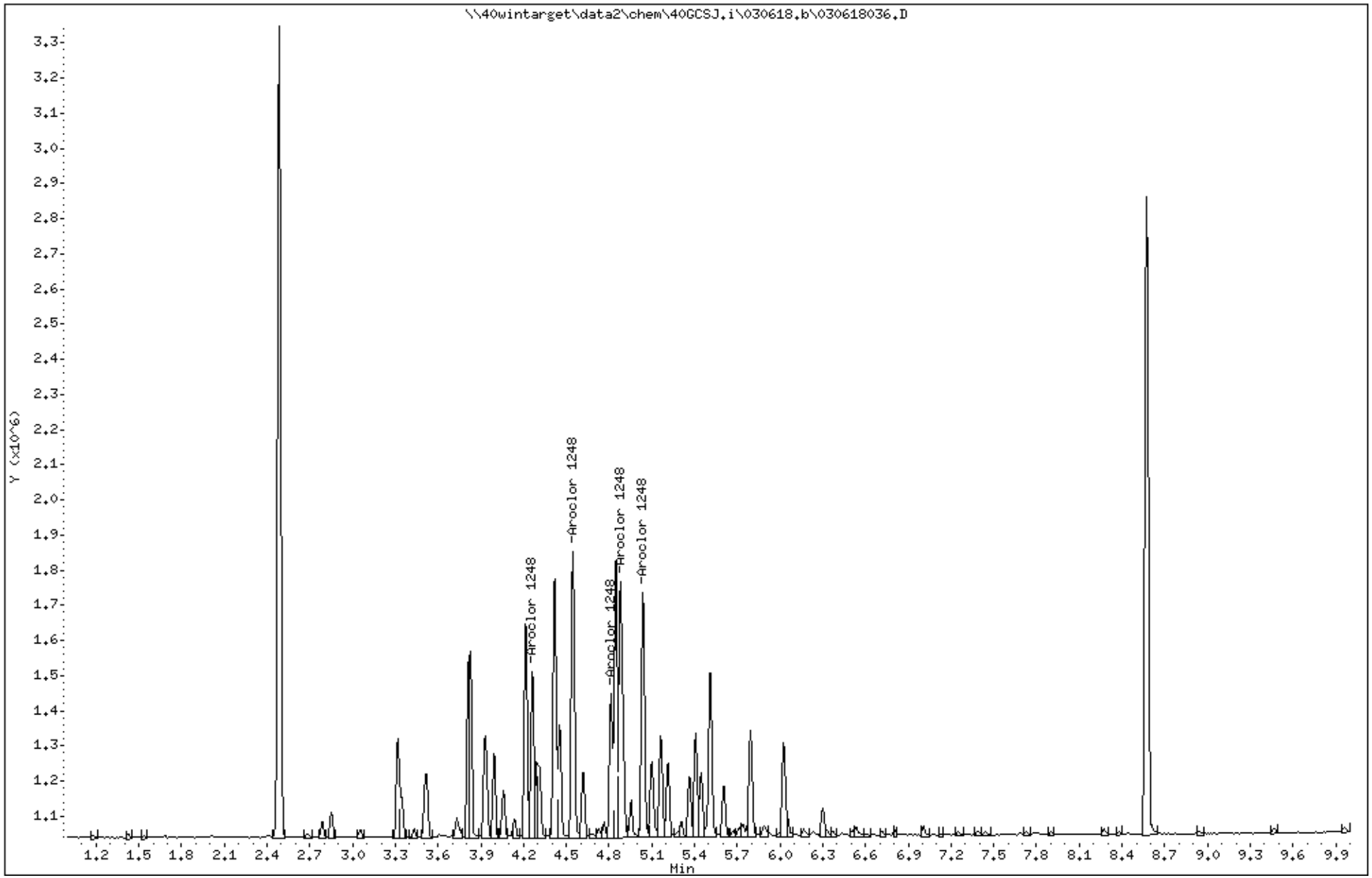
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

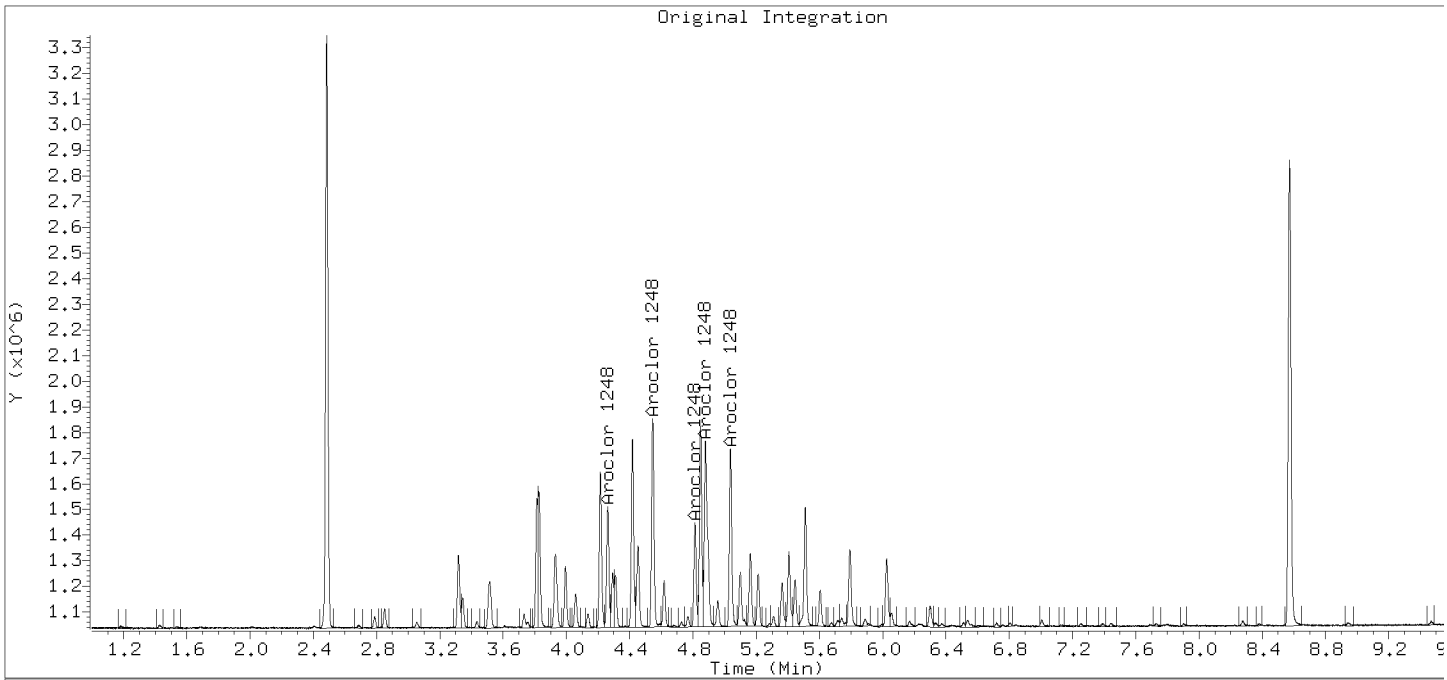
Operator: BLM

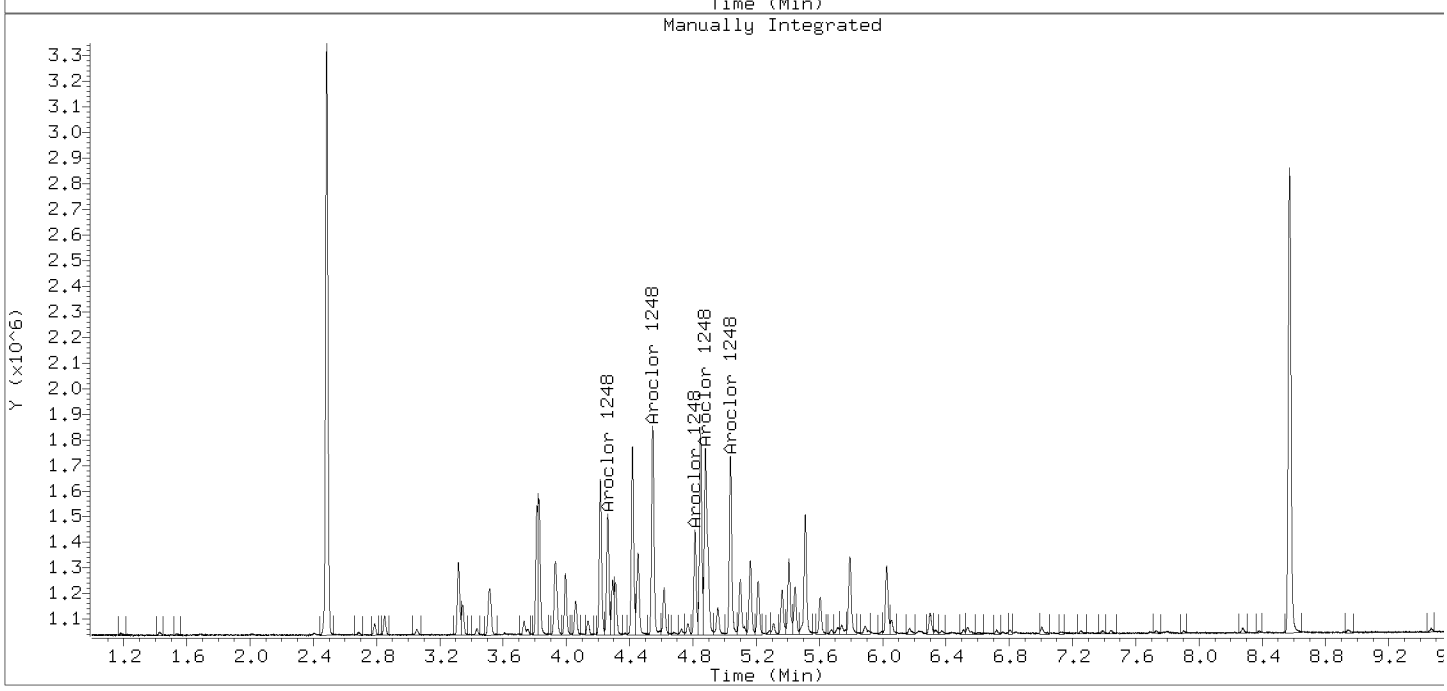
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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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

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SW846-8082

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

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

QC Flag Legend

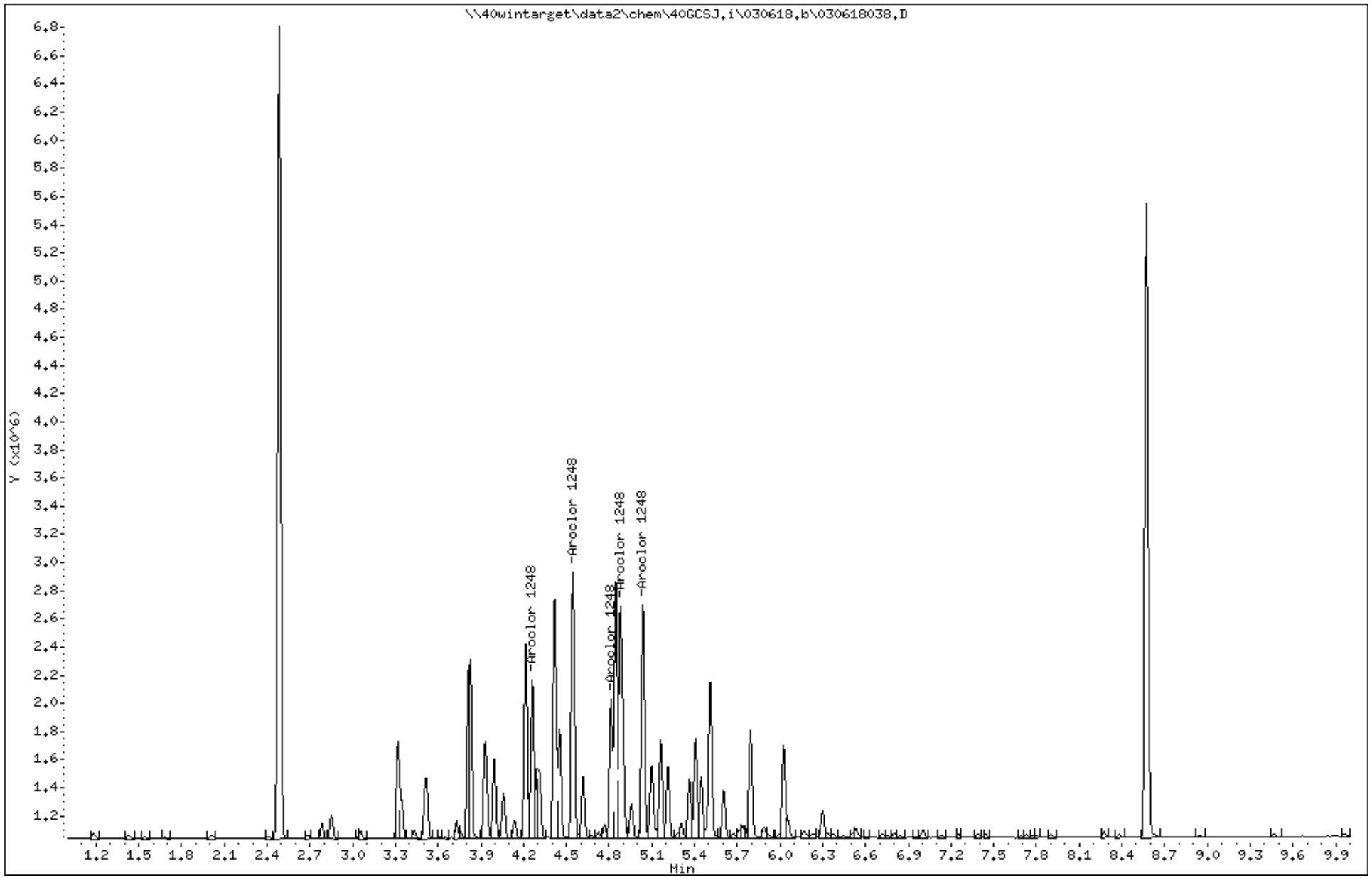
M - Compound response manually integrated.

Review Codes Legend

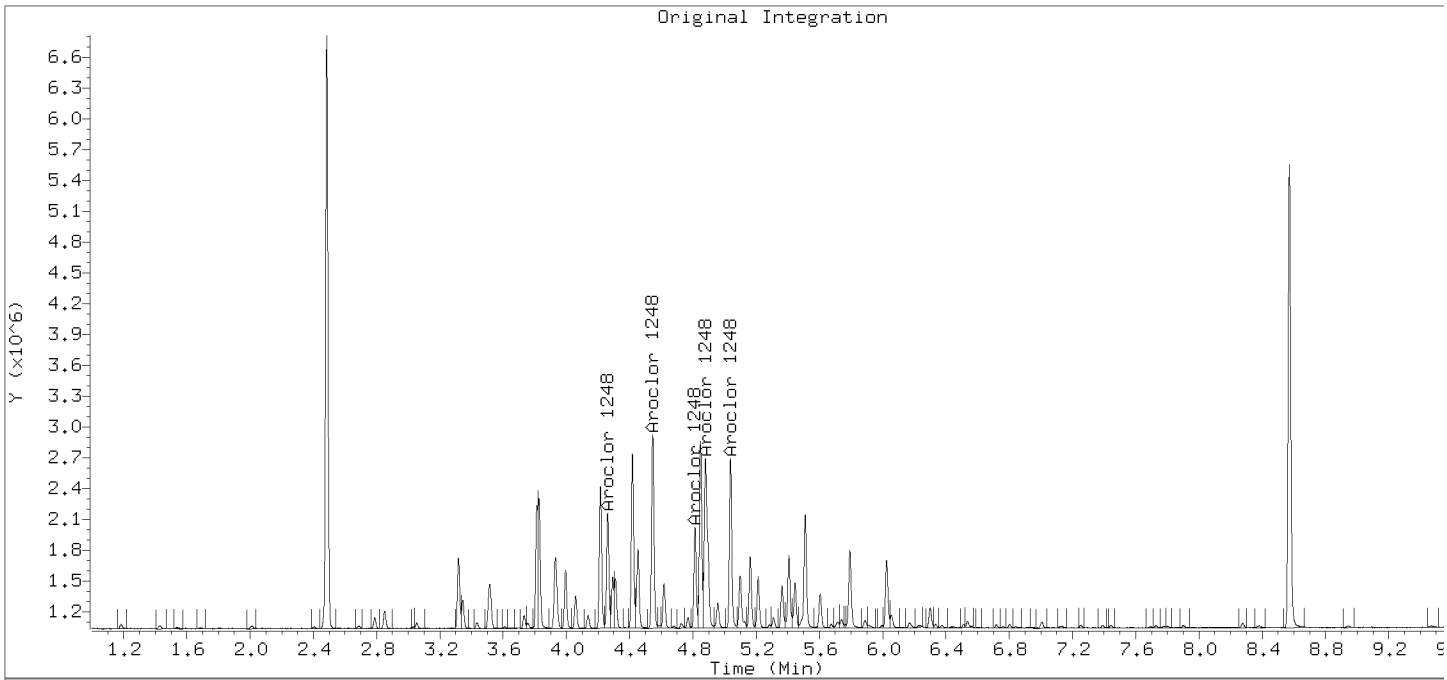
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

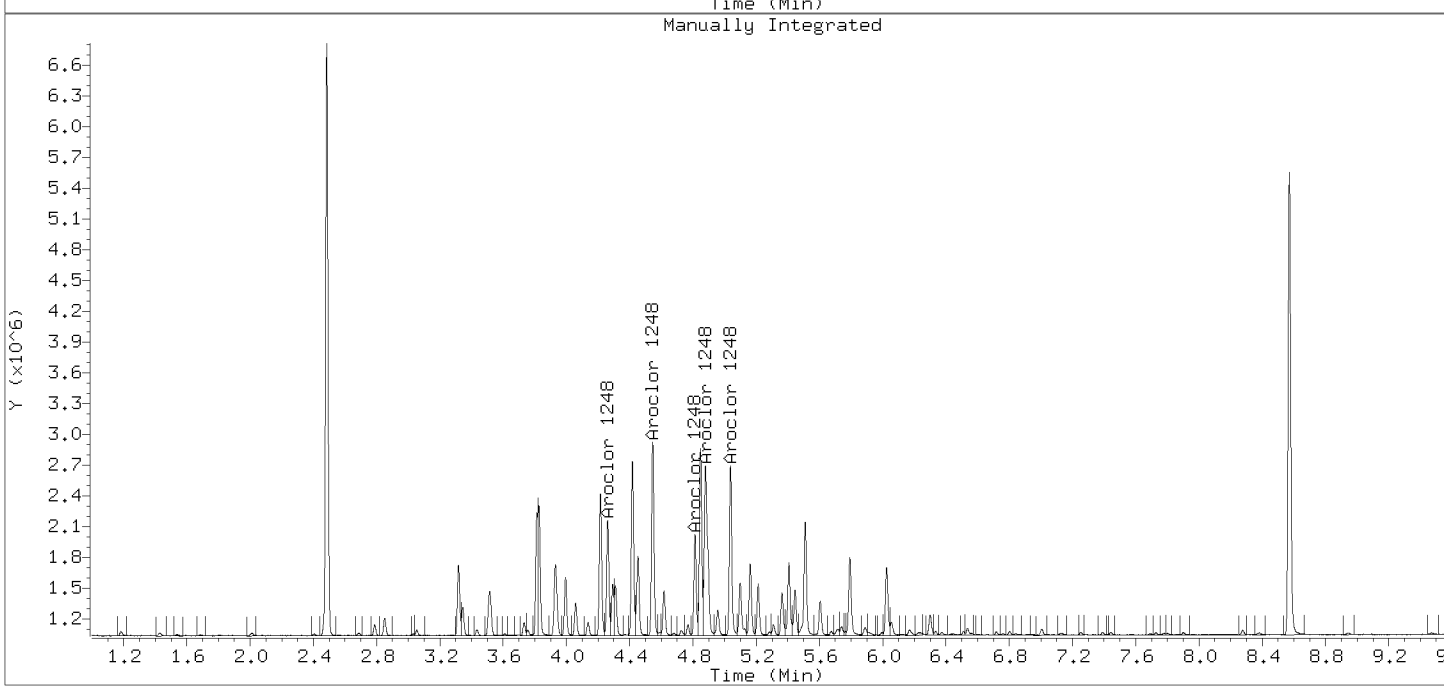
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

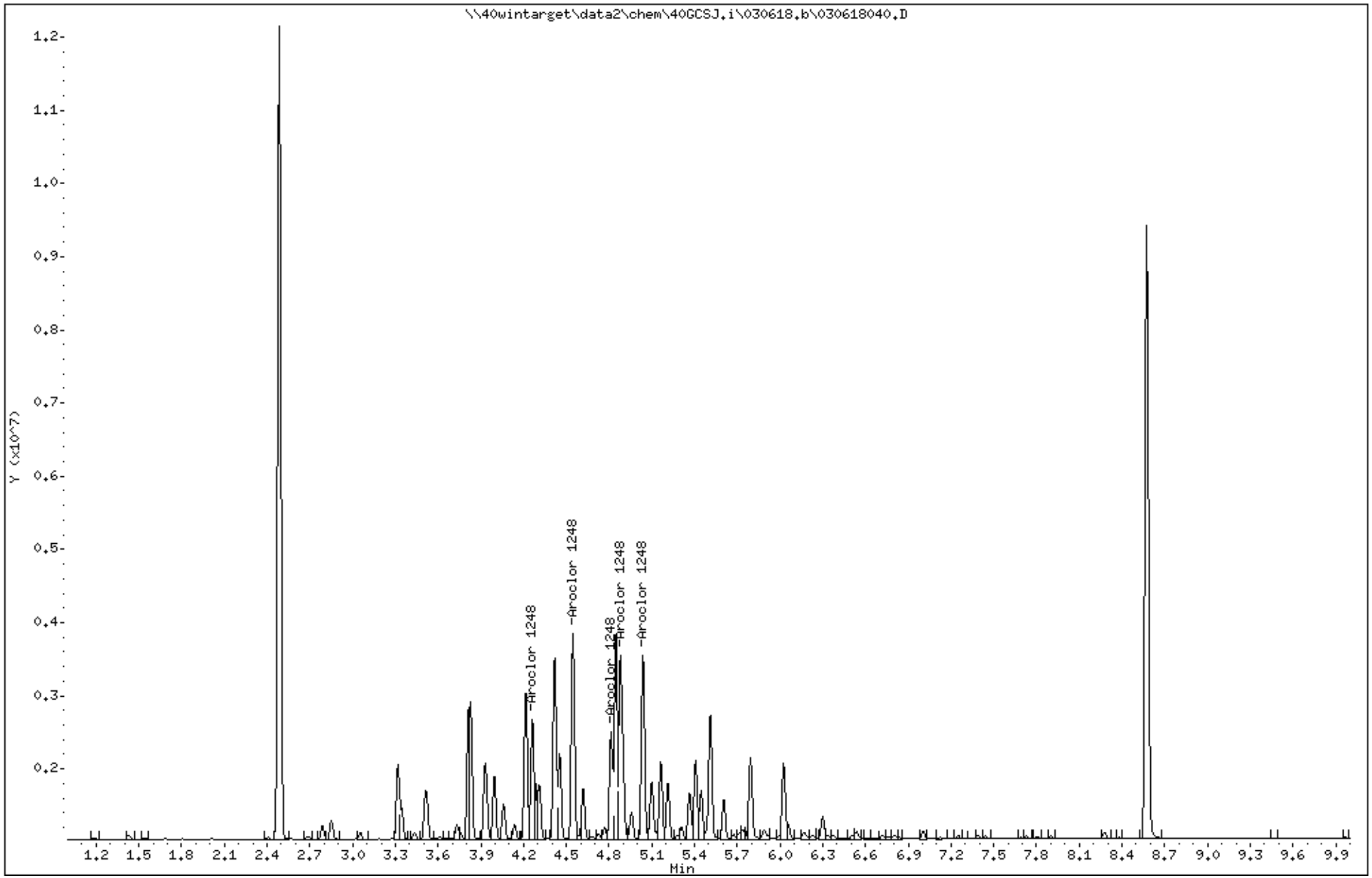
M - Compound response manually integrated.

Review Codes Legend

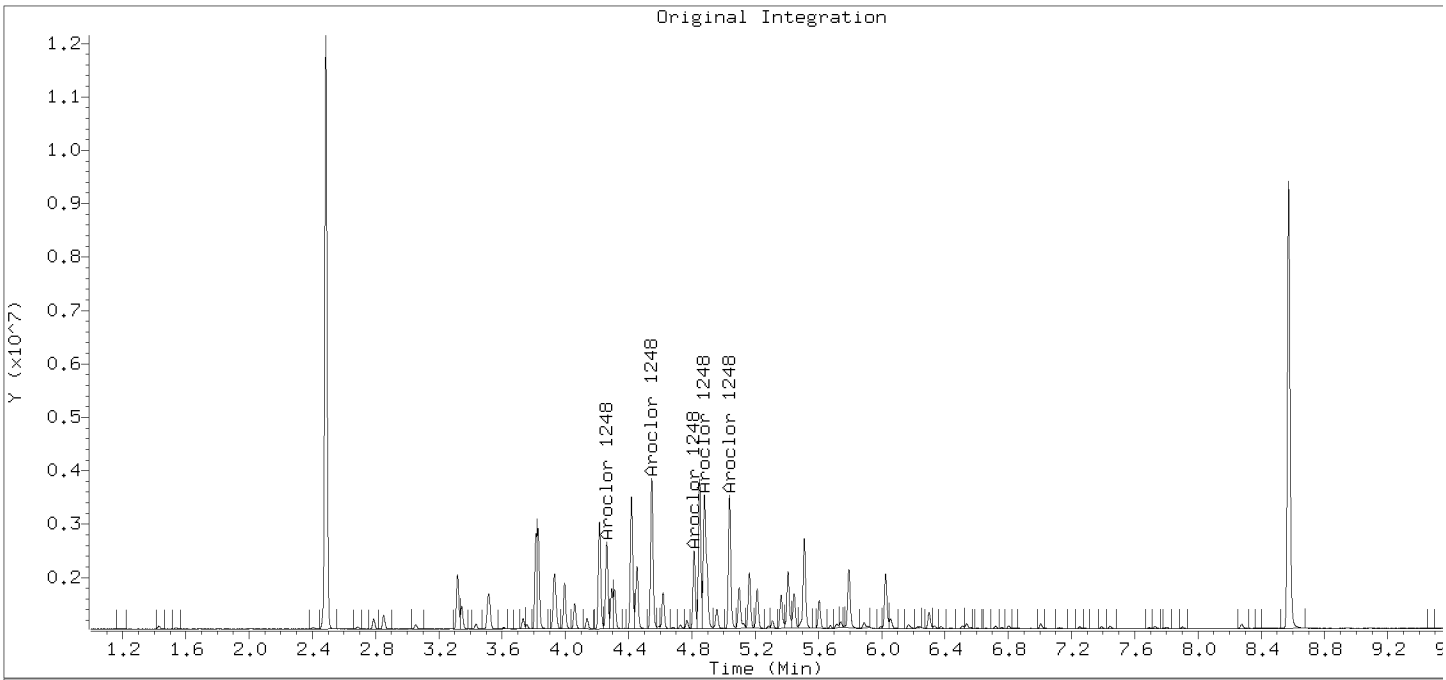
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

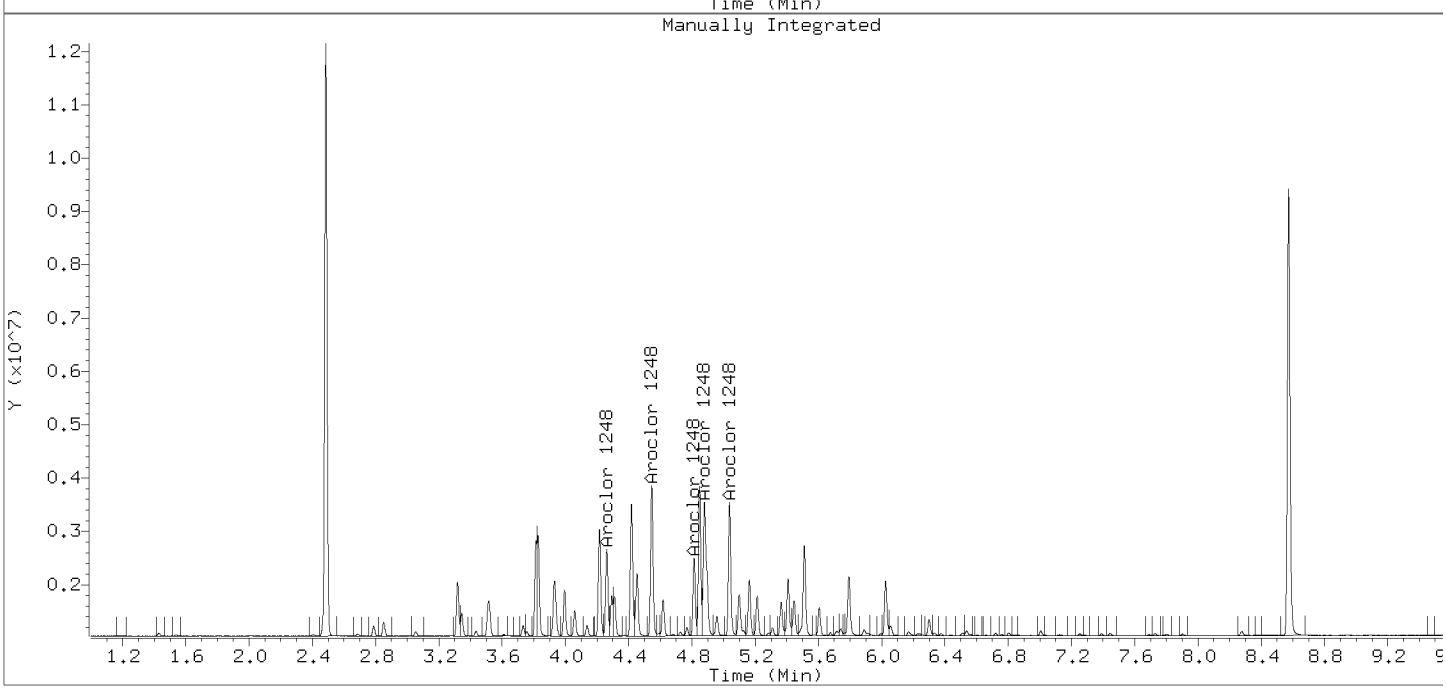
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Date : 06-MAR-2018 16:09
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

Instrument: 40GCSJ.i
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

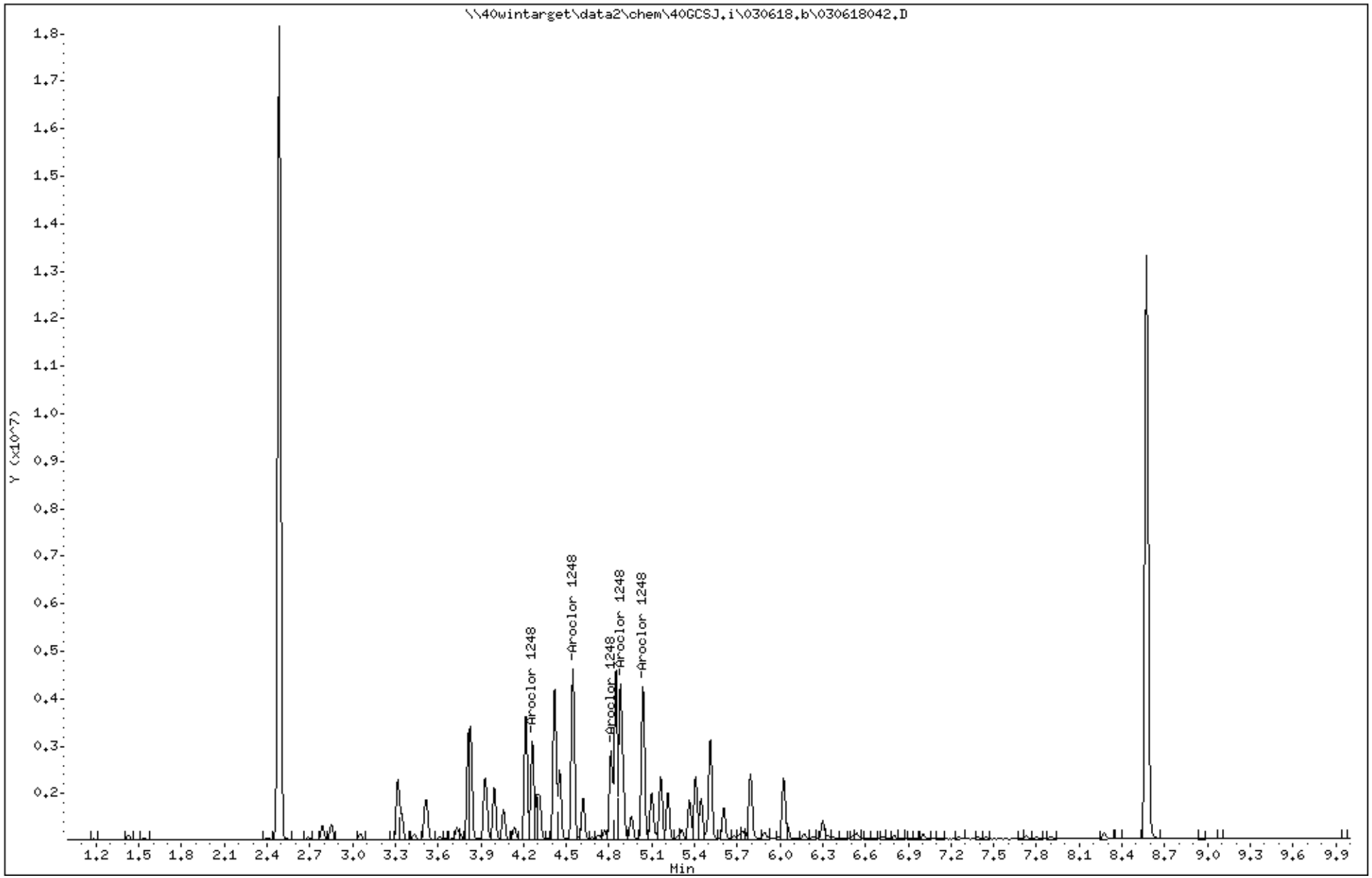
M - Compound response manually integrated.

Review Codes Legend

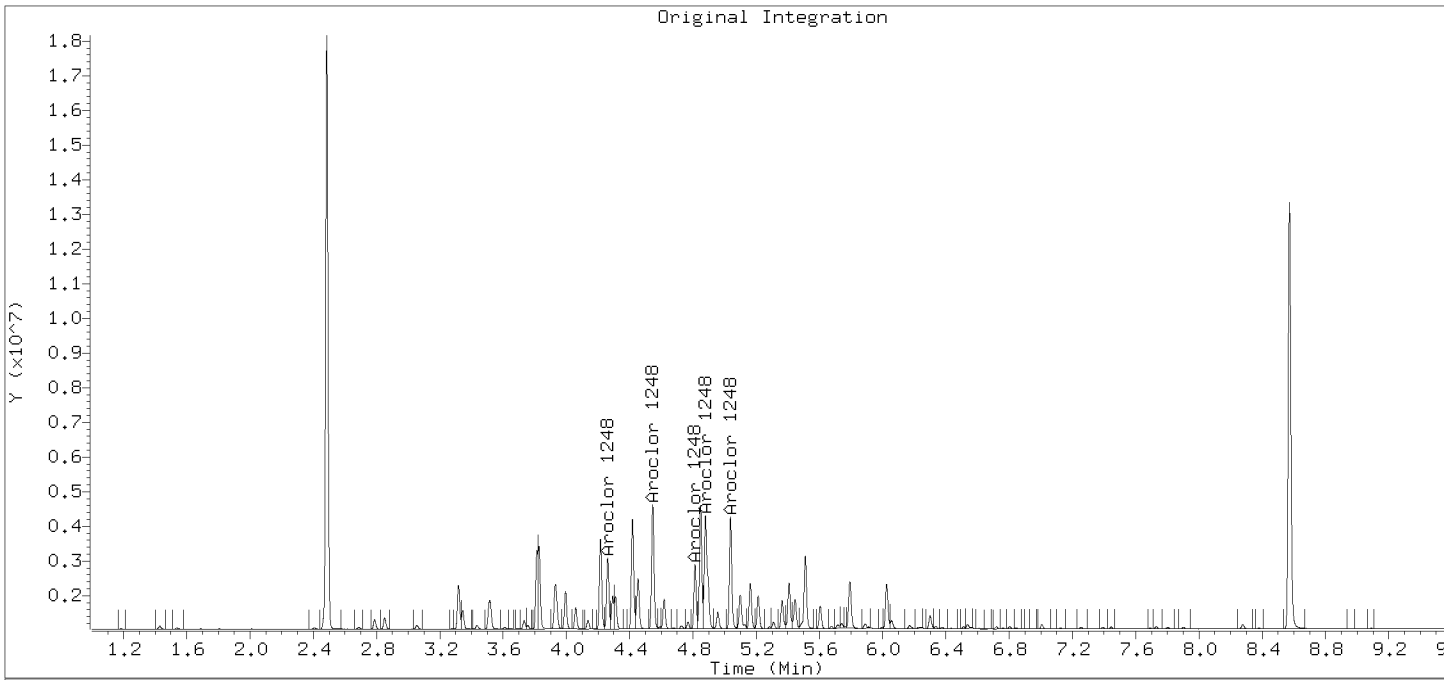
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

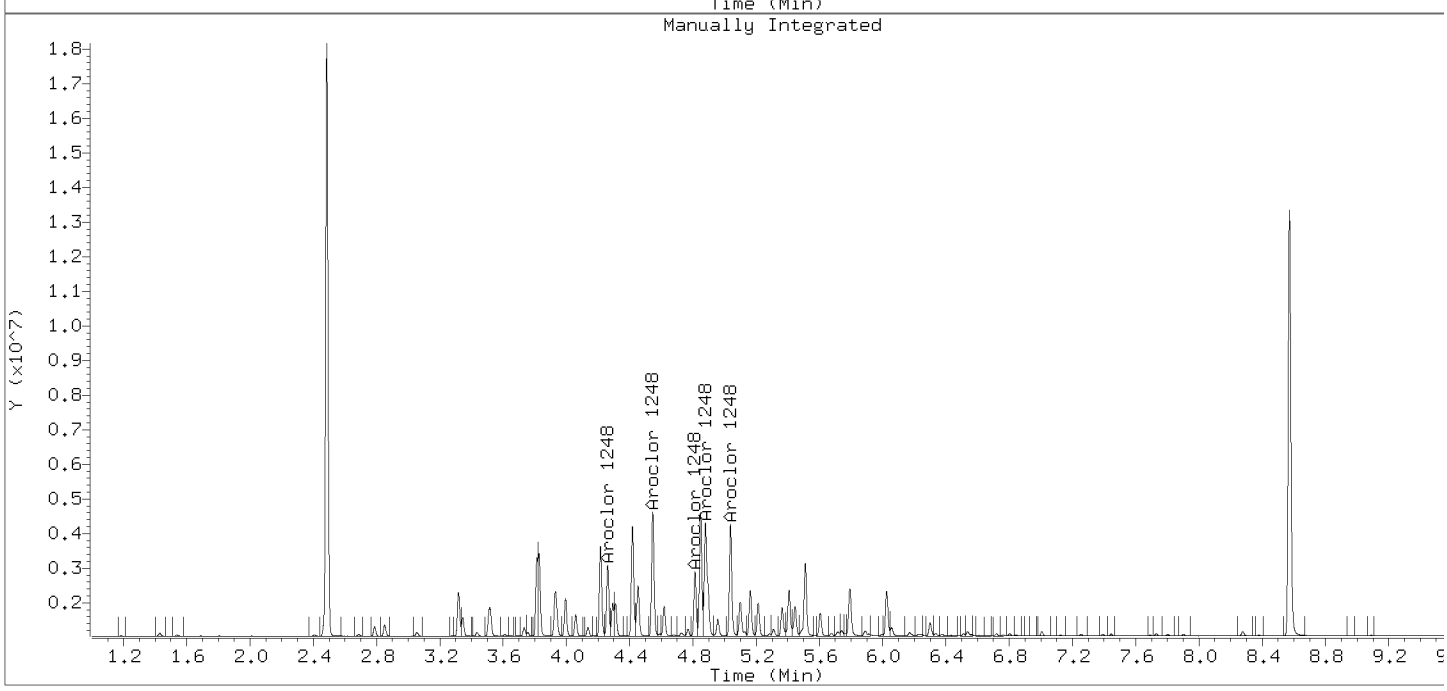
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Date : 06-MAR-2018 16:25
Client ID: 1248-CAL5D
Sample Info: 1248-CAL5D, 185551:1

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

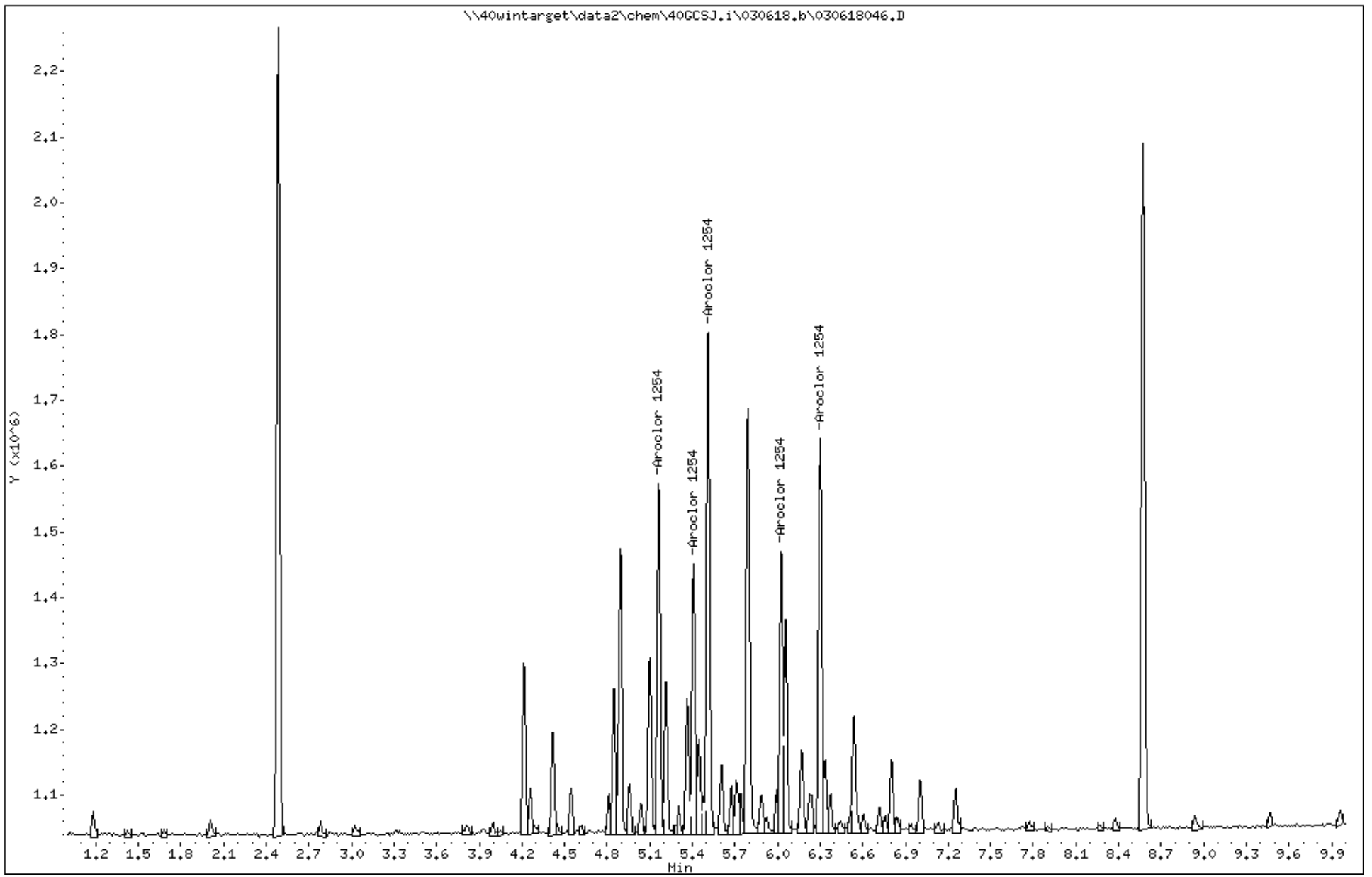
M - Compound response manually integrated.

Review Codes Legend

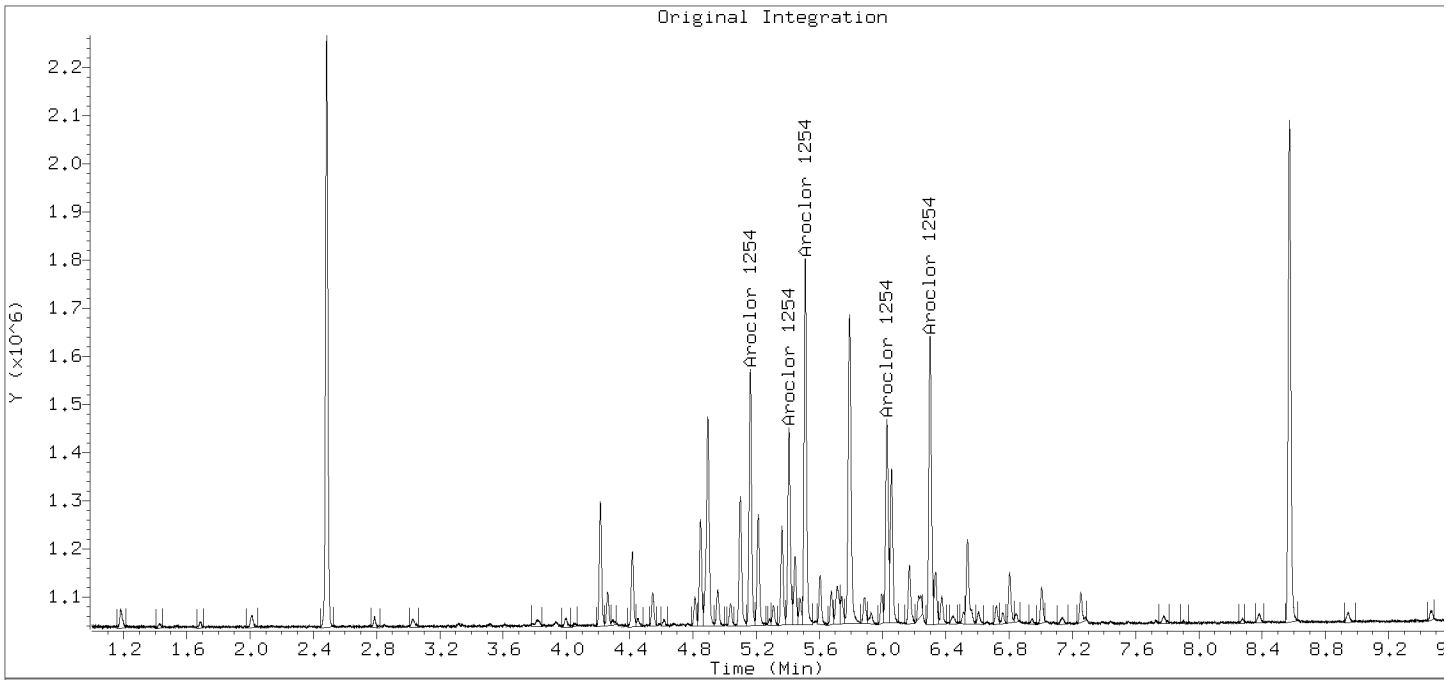
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

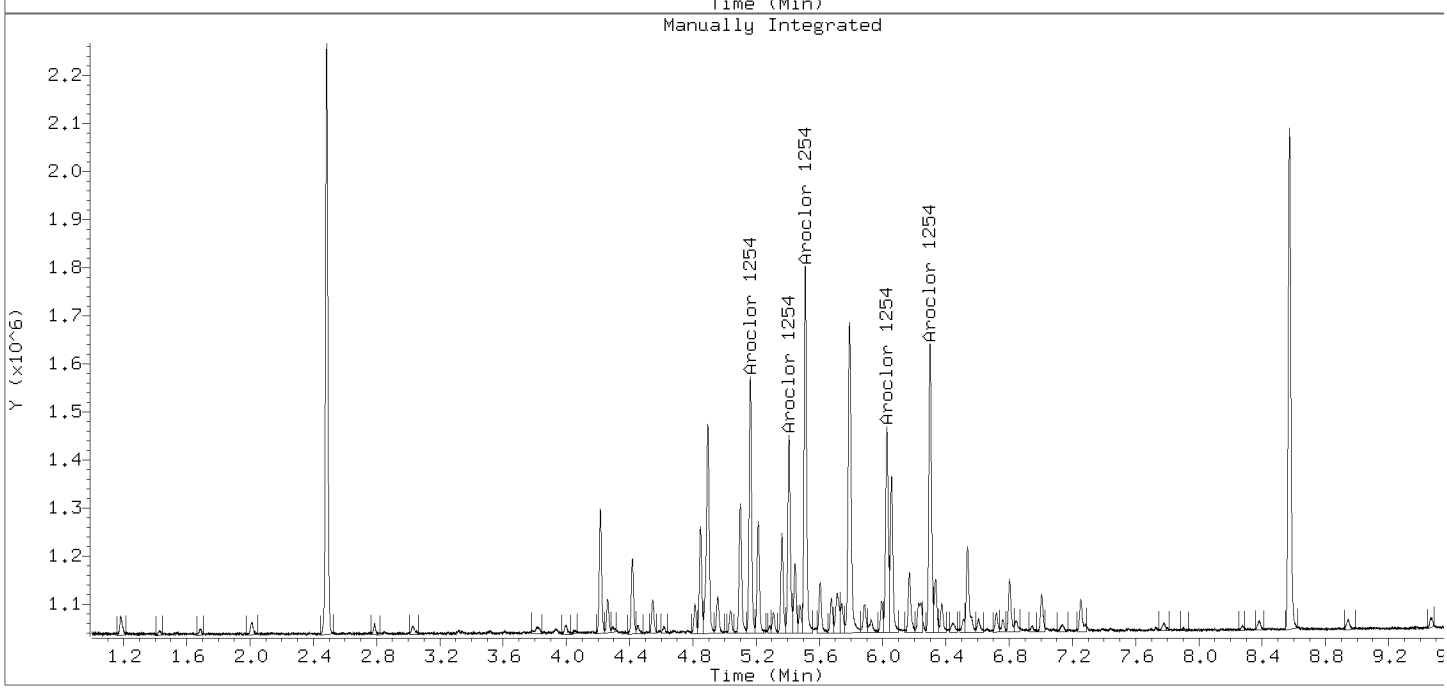
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

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

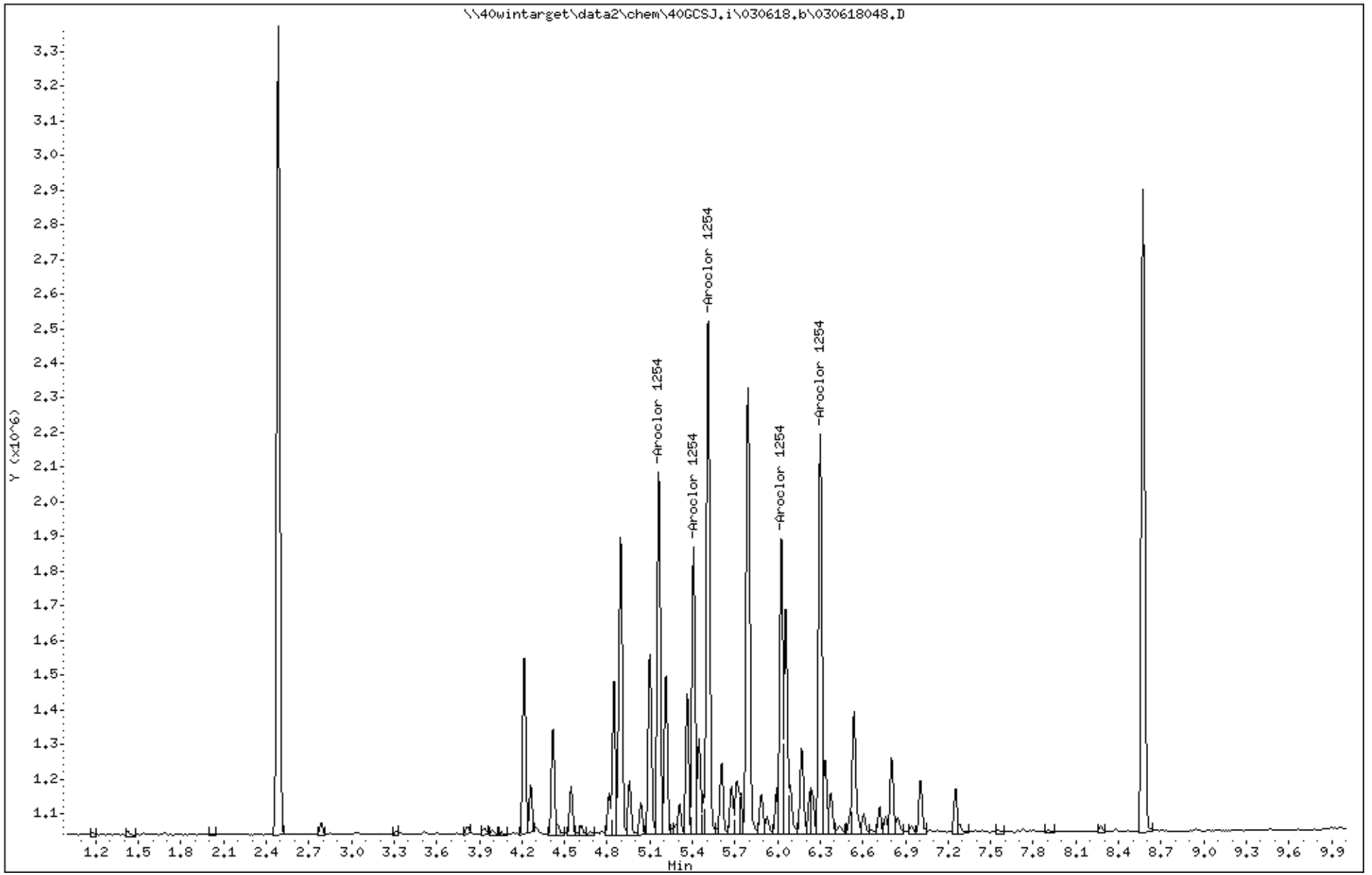
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

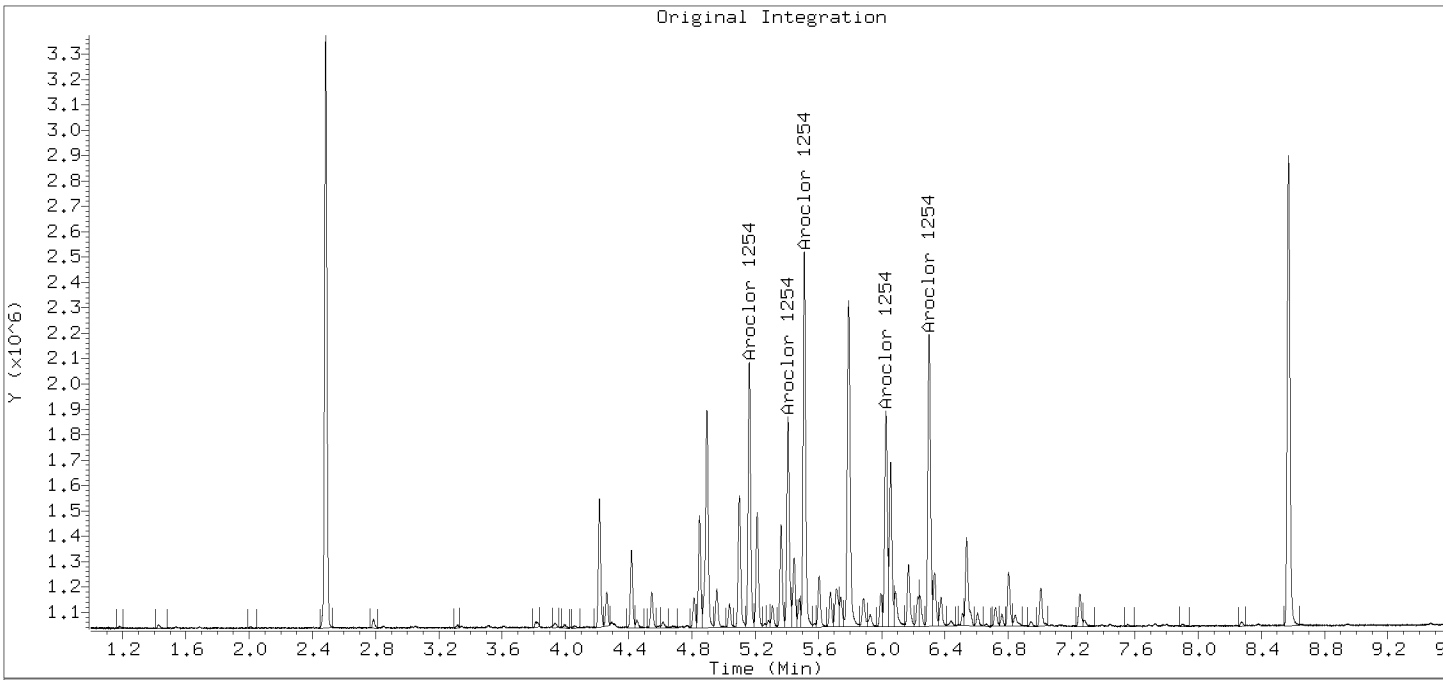
Operator: BLM

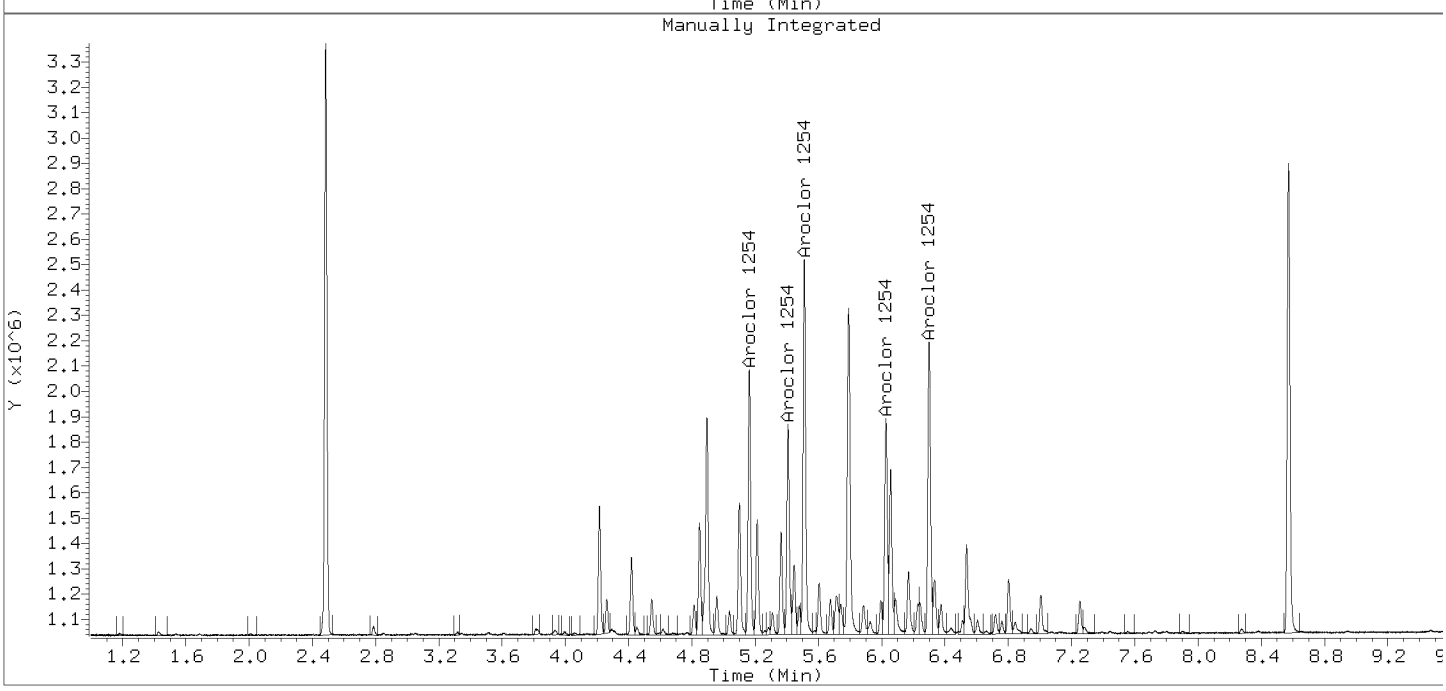
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

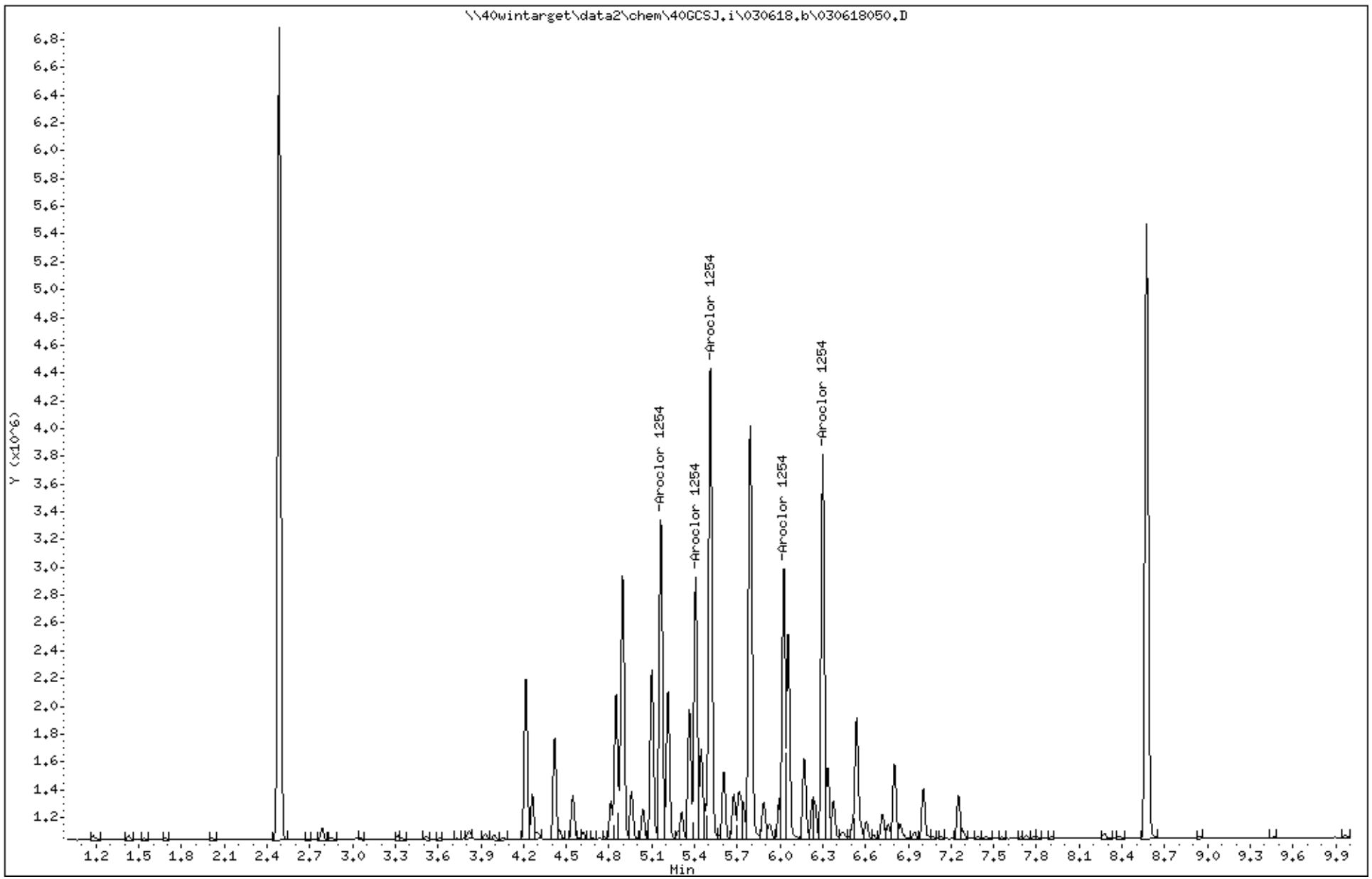
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

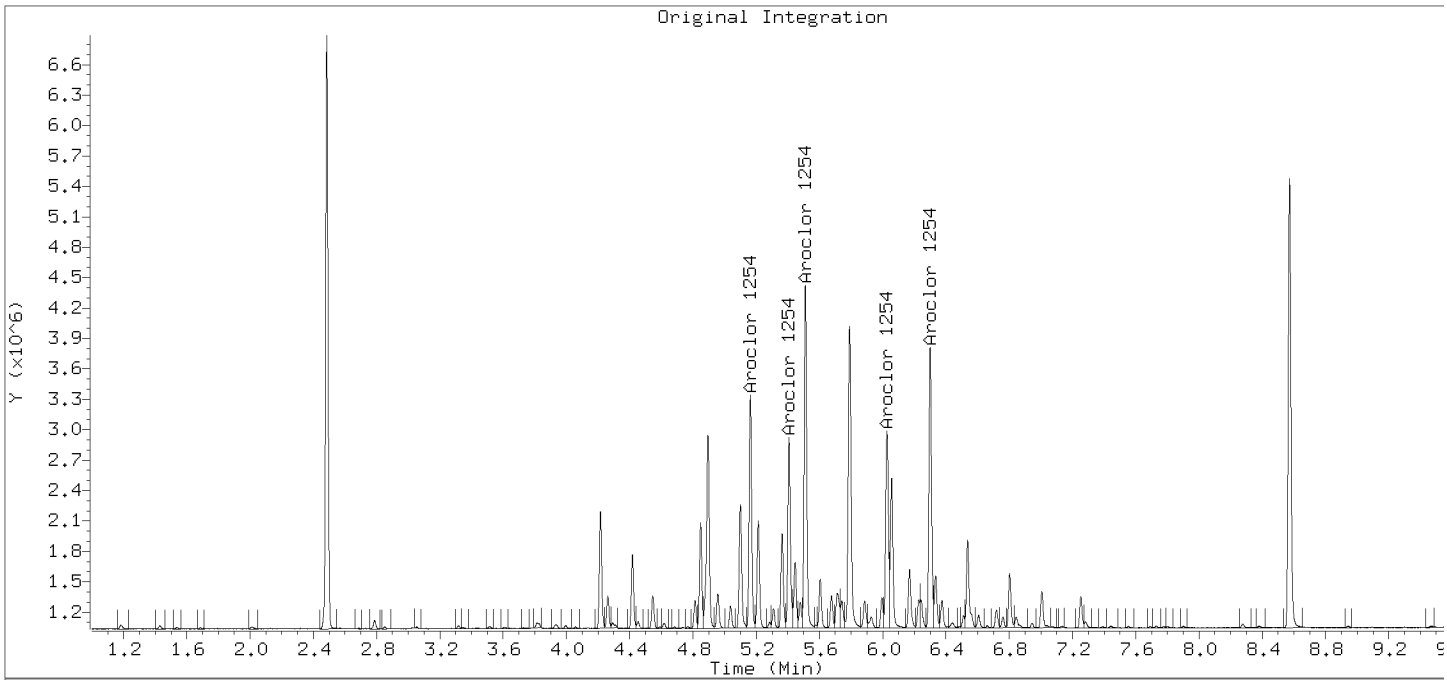
Operator: BLM

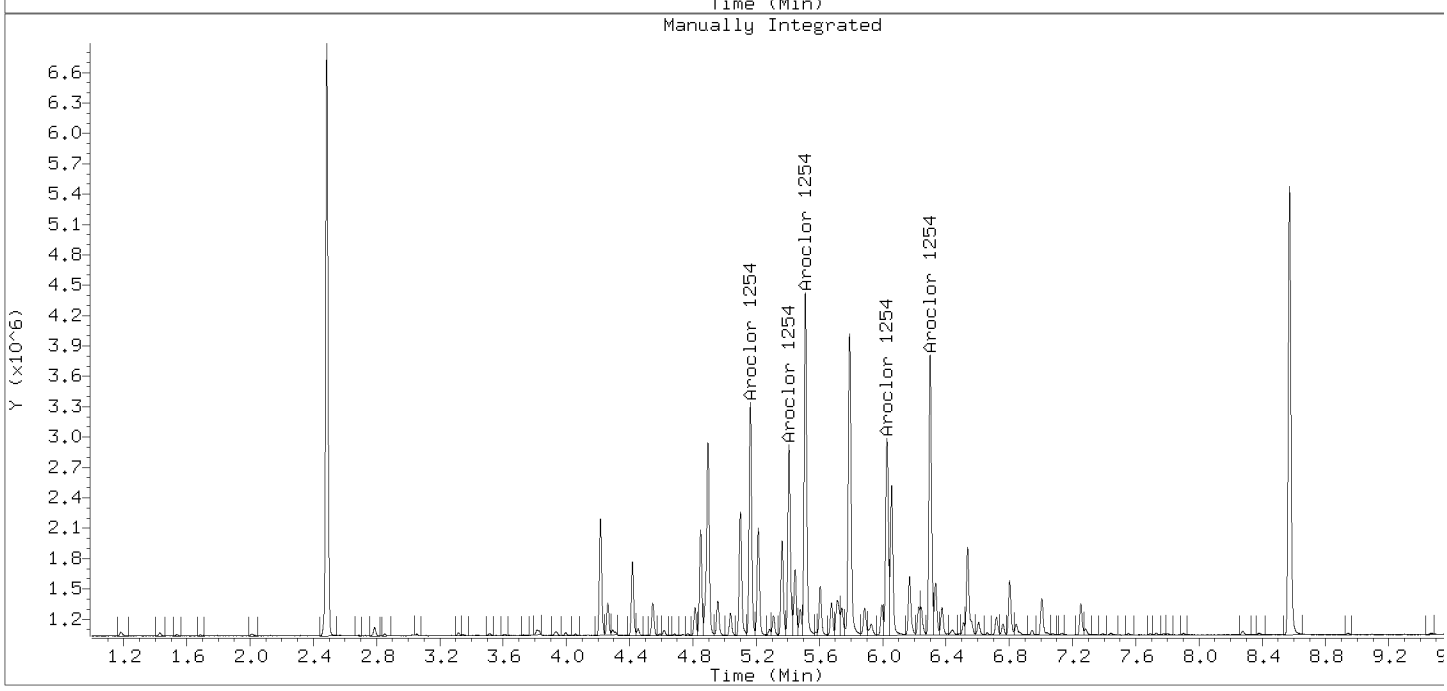
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

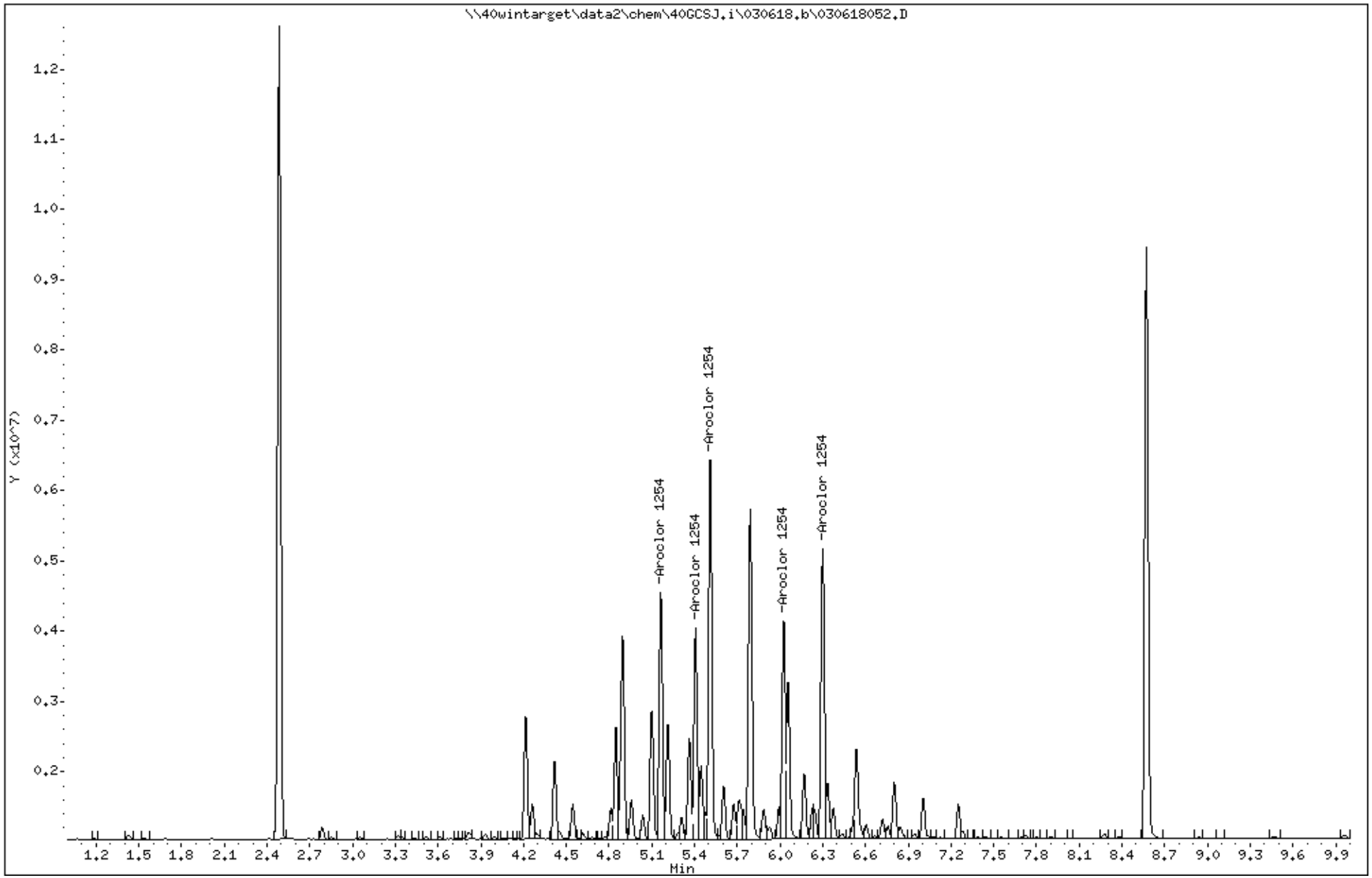
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

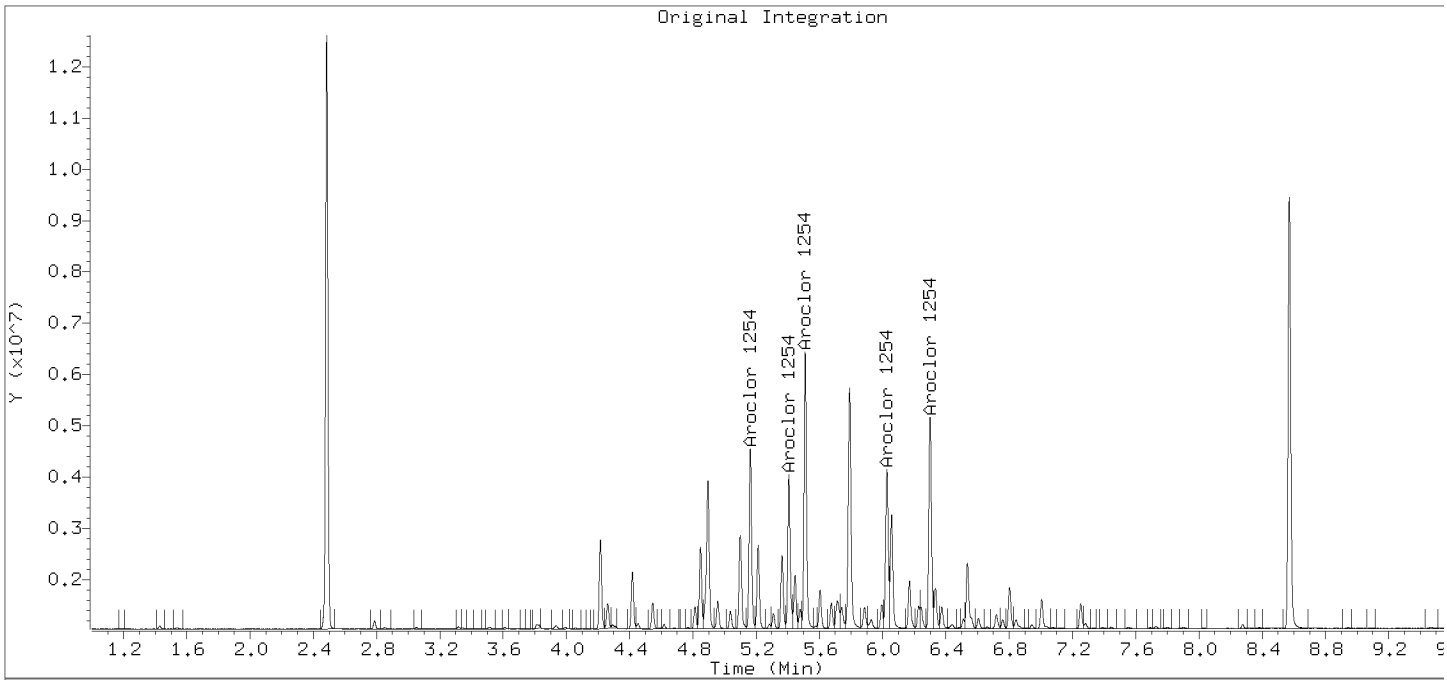
Operator: BLM

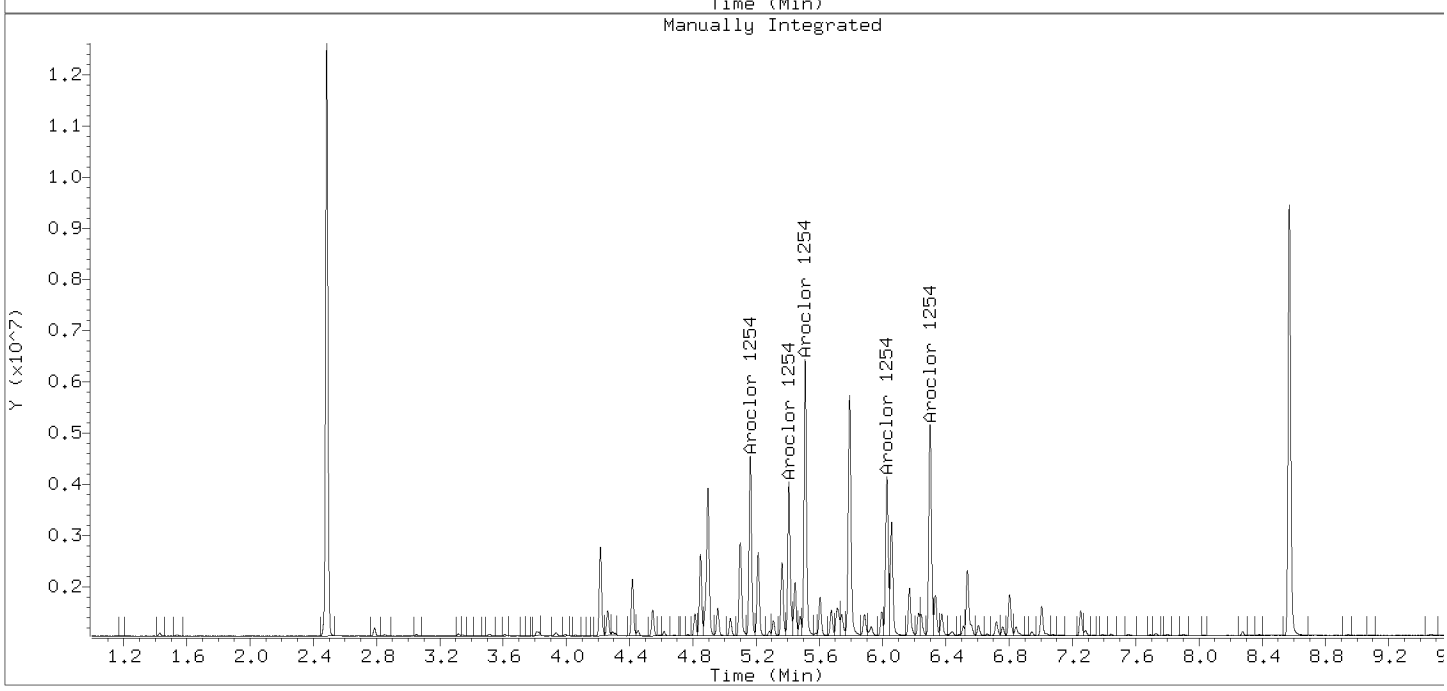
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

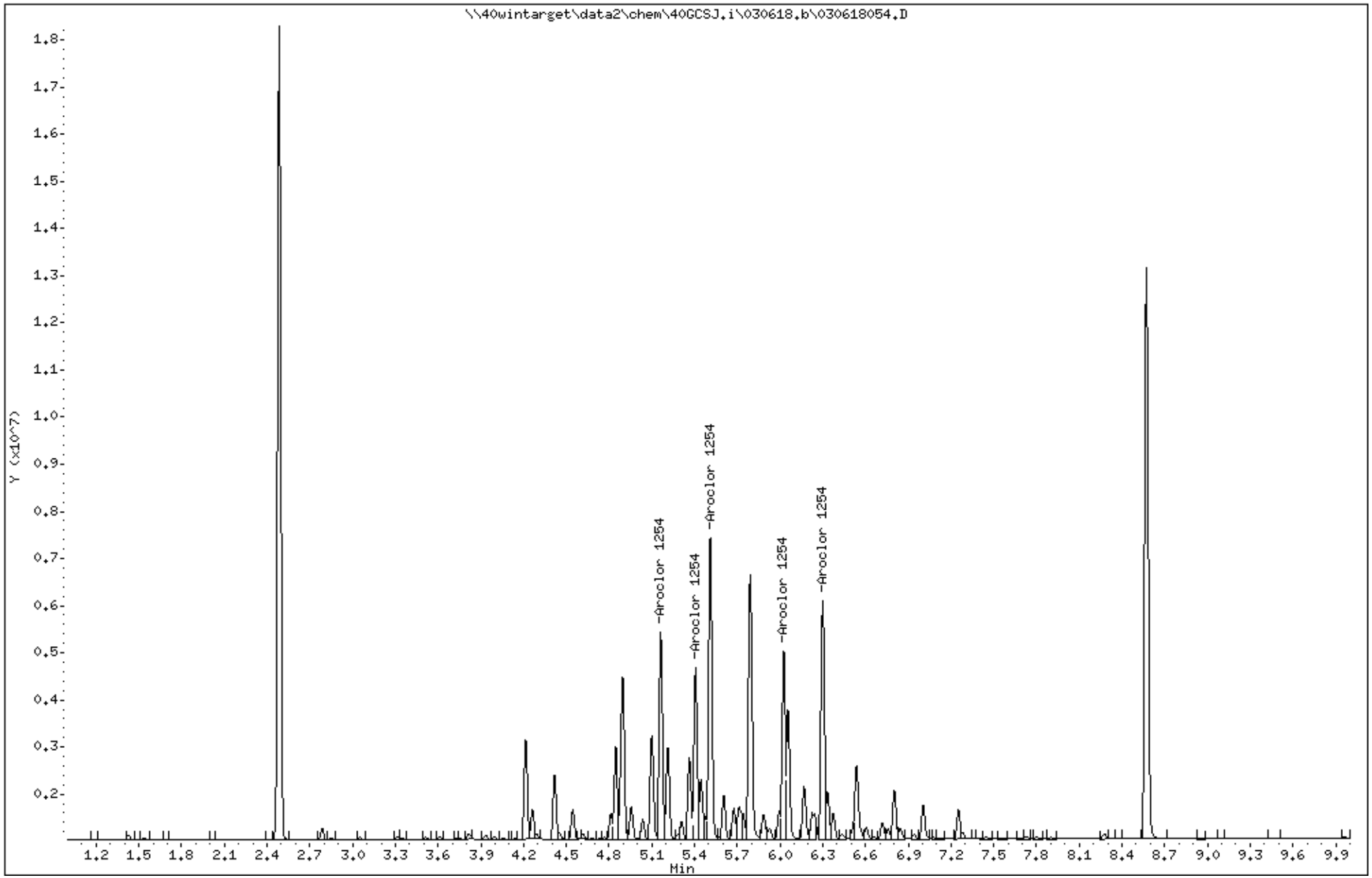
M - Compound response manually integrated.

Review Codes Legend

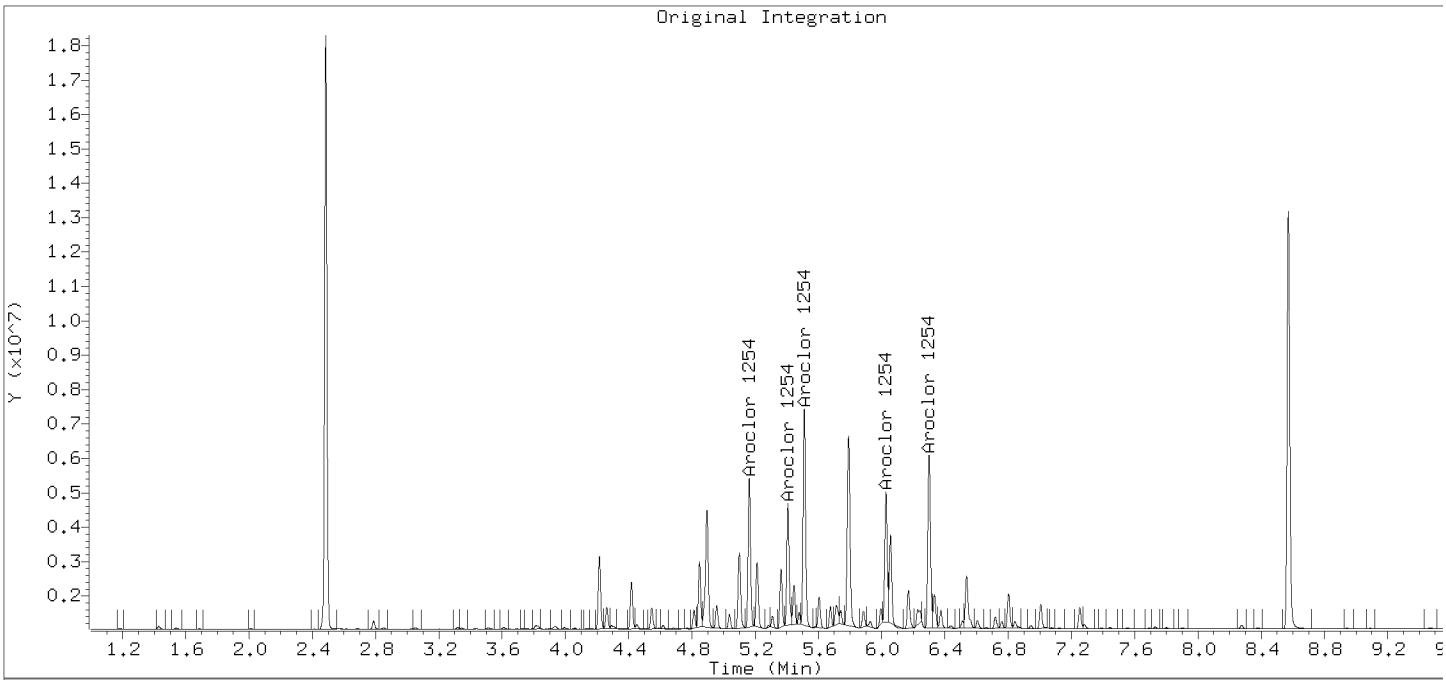
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

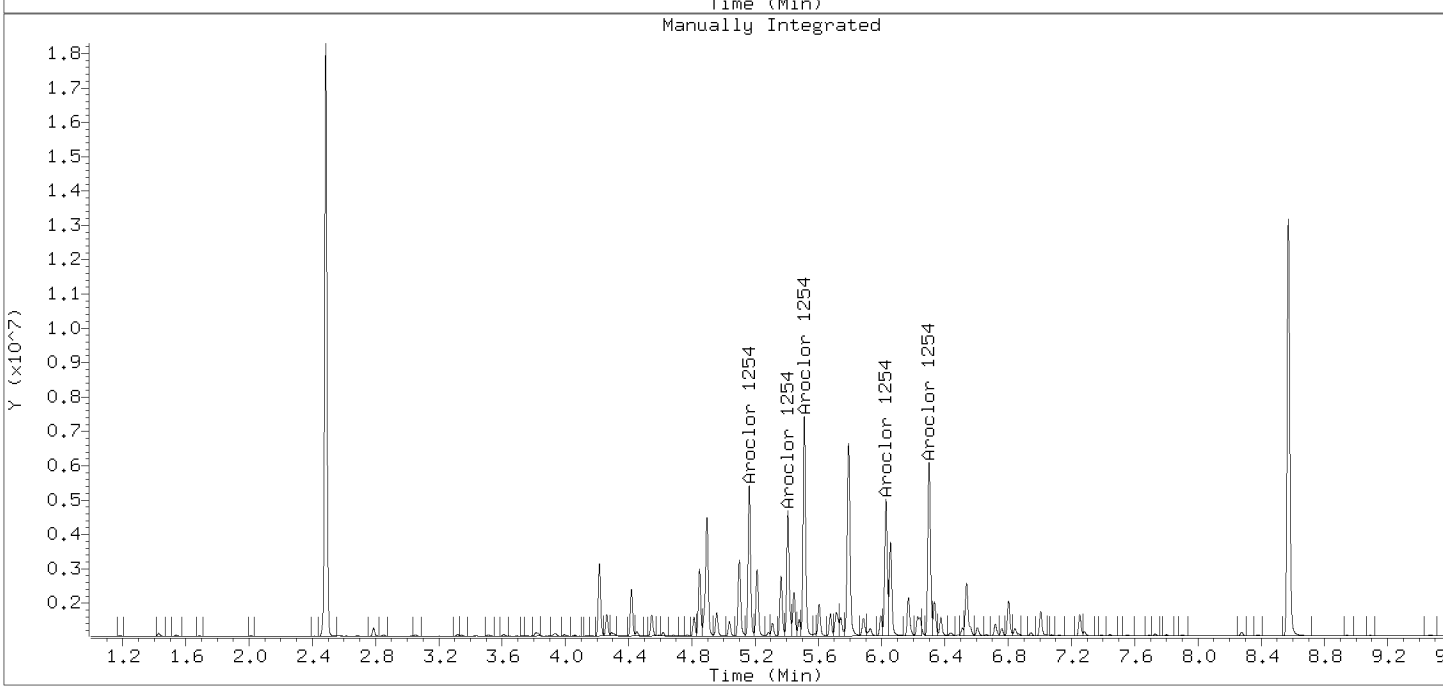
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

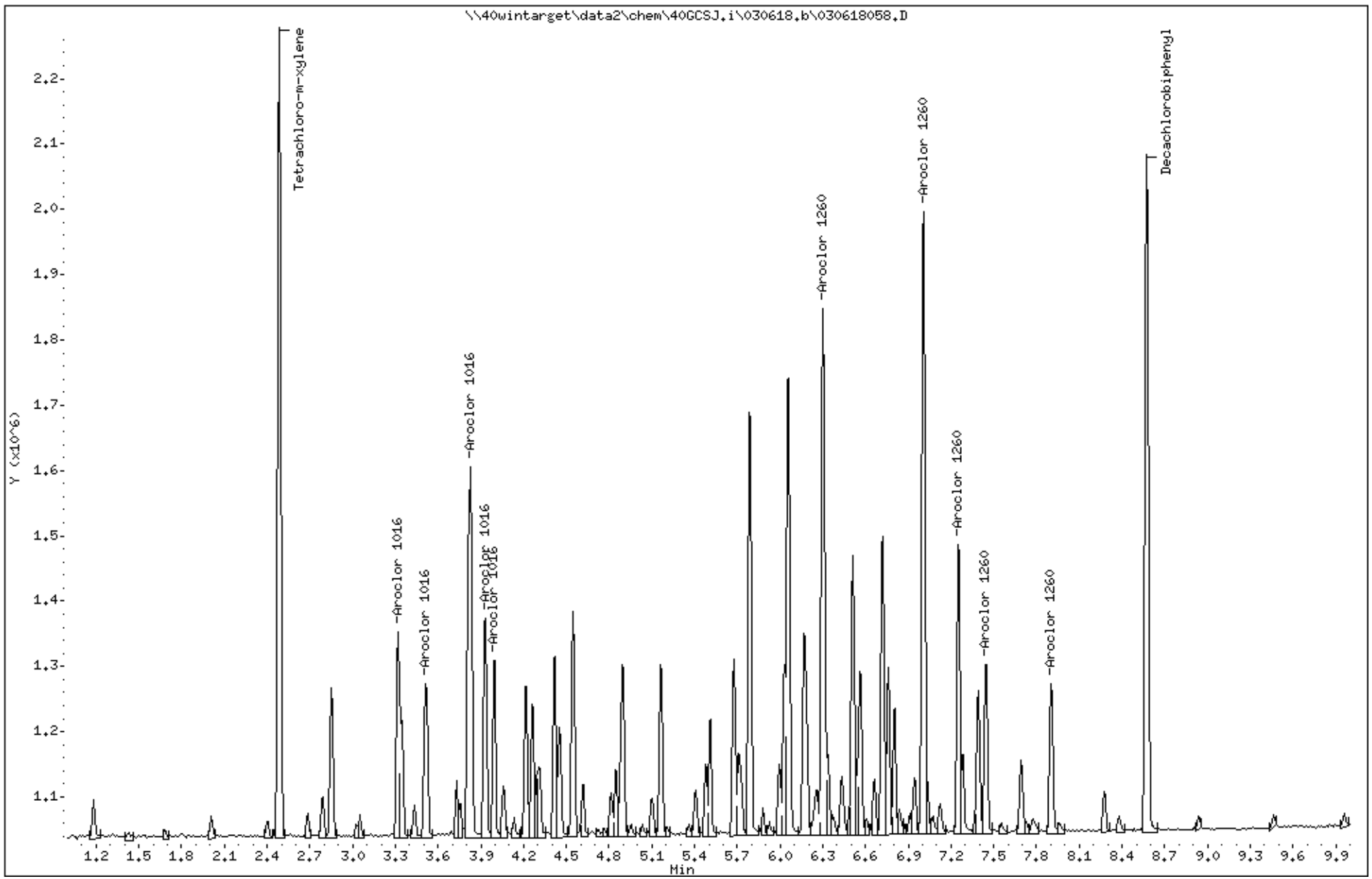
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

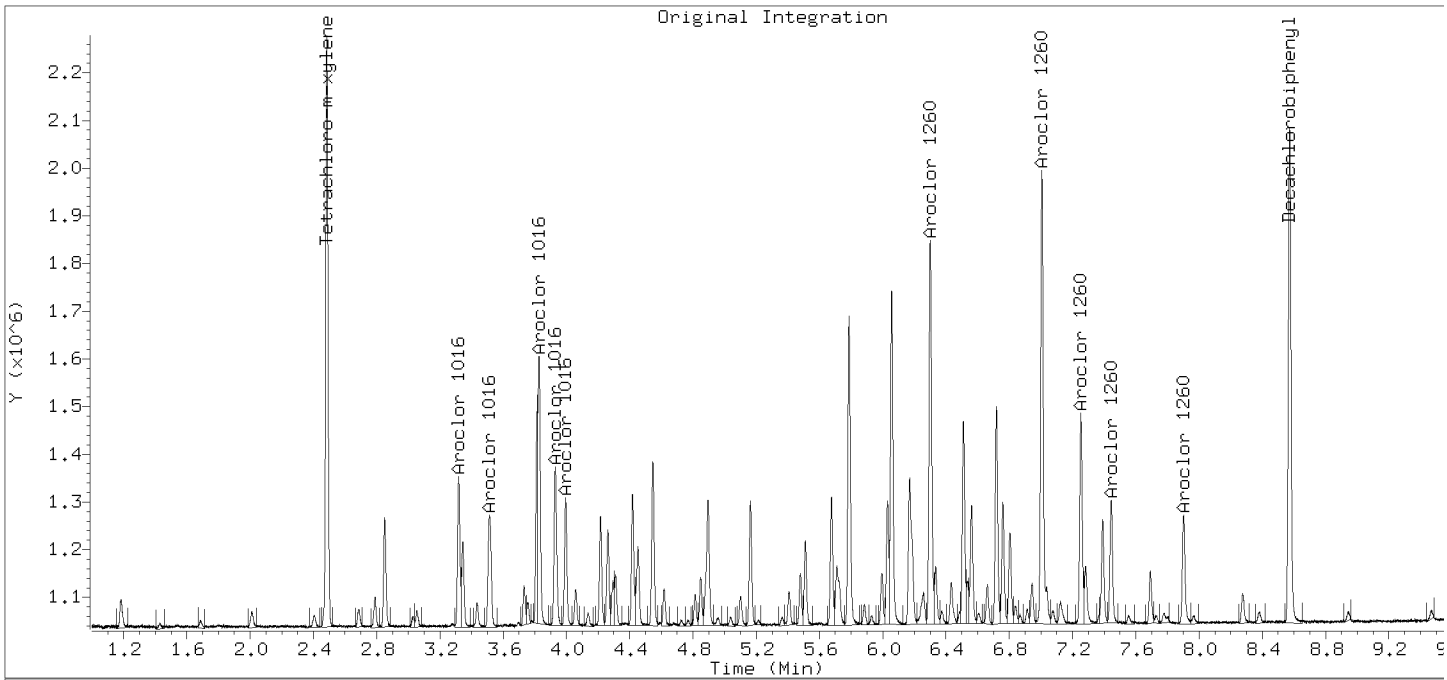
Operator: BLM

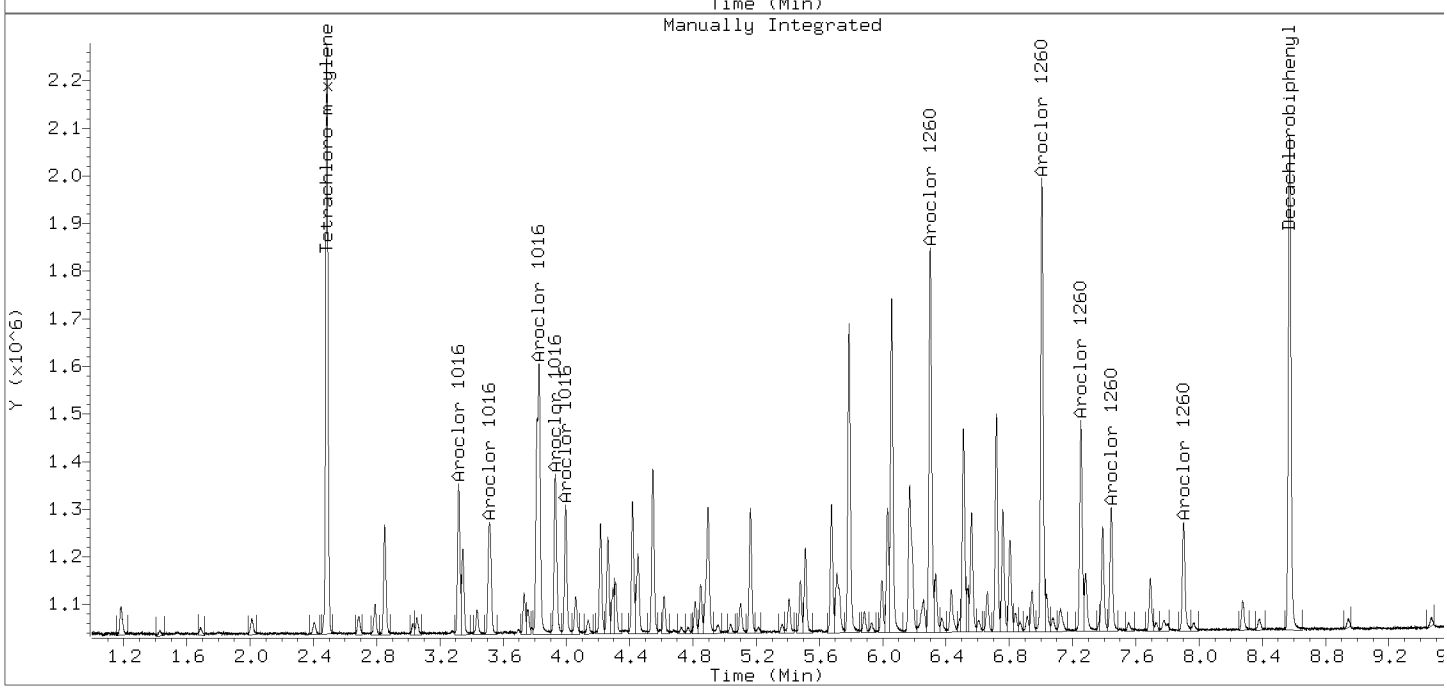
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

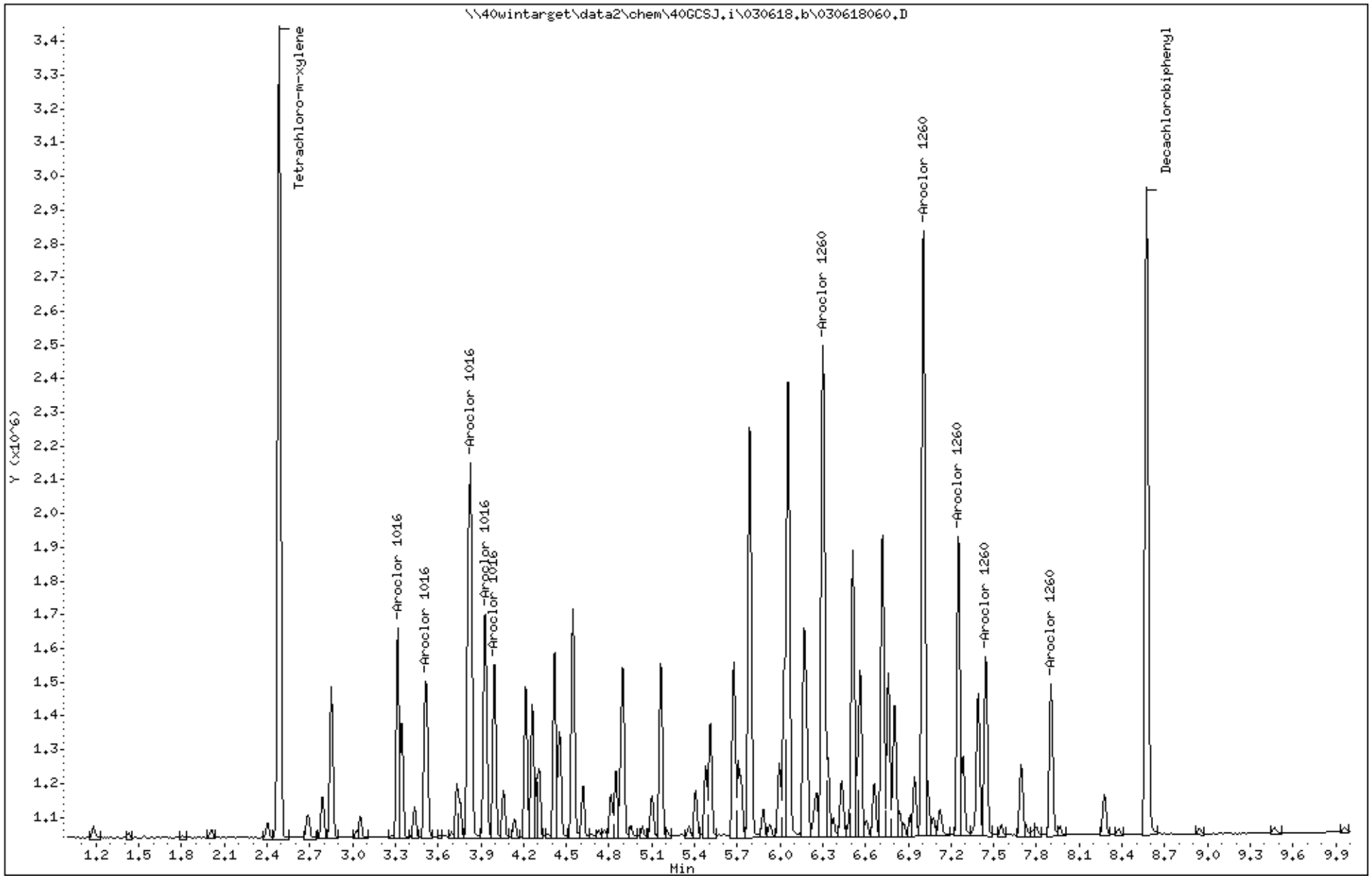
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

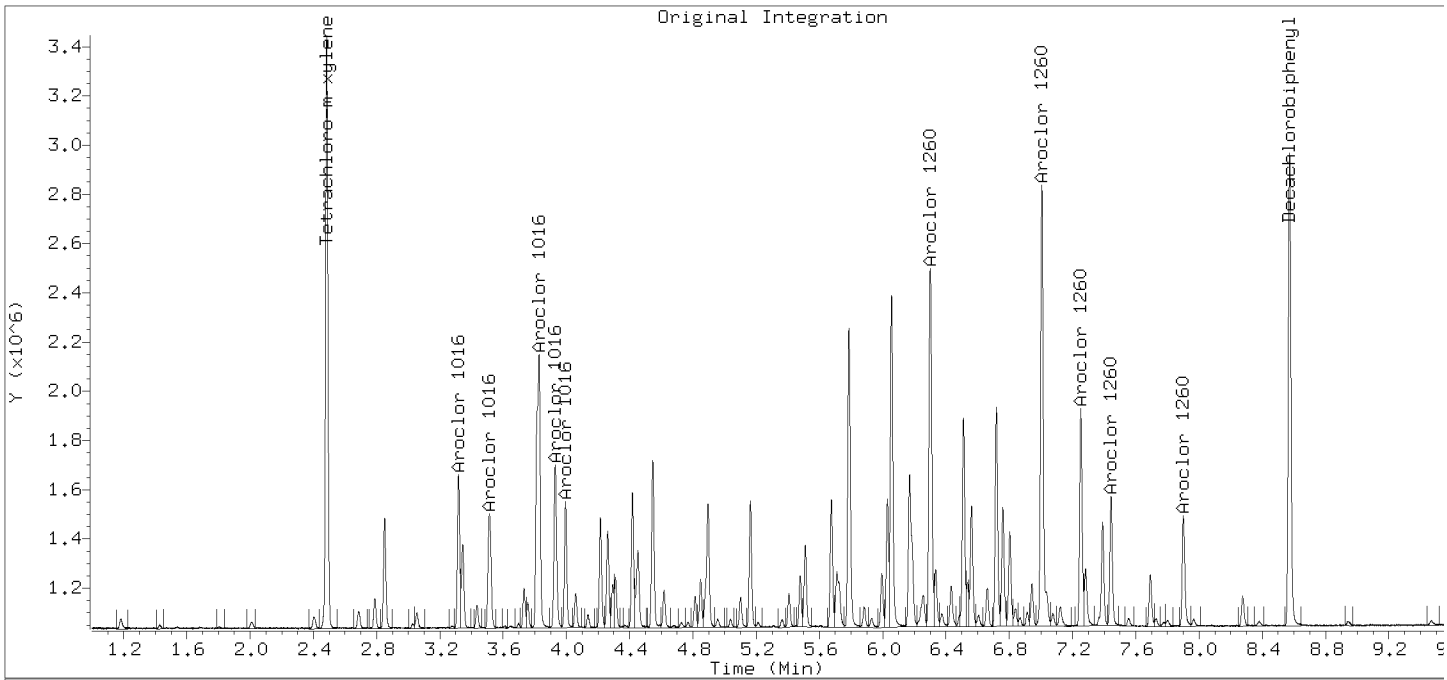
Operator: BLM

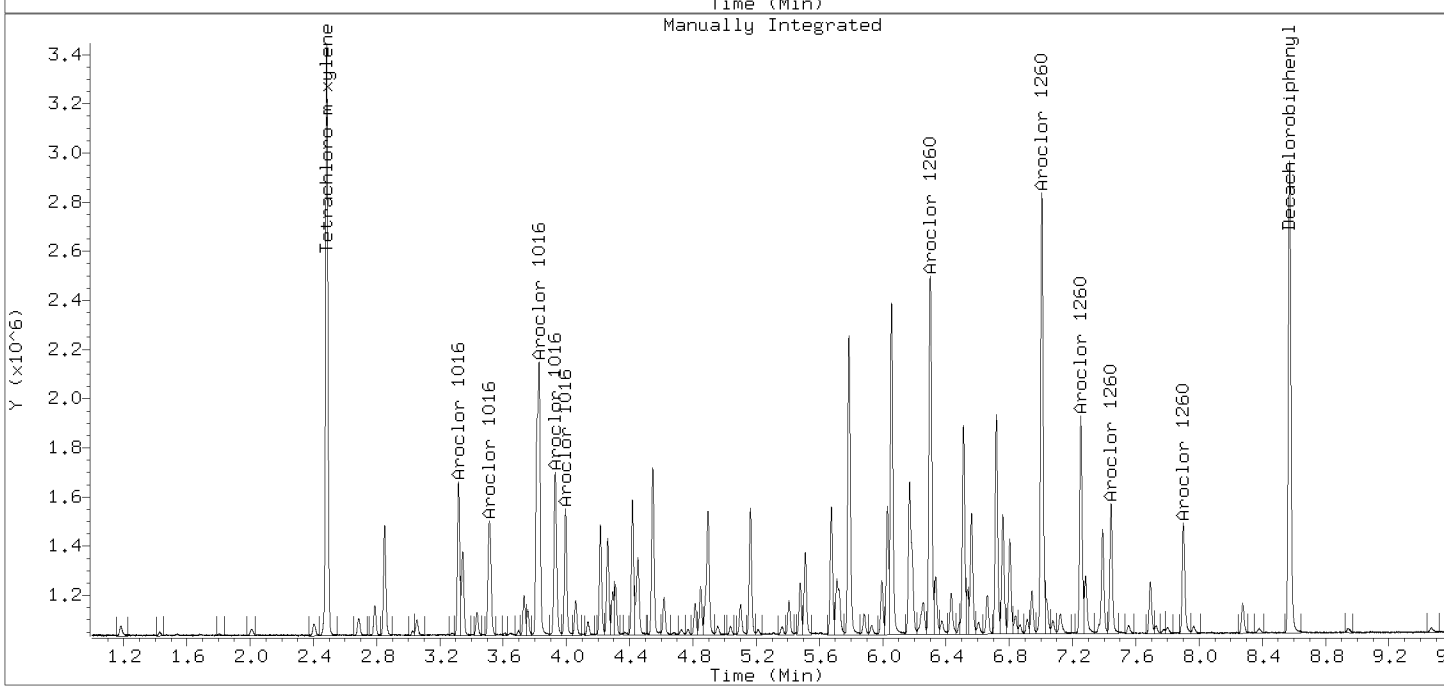
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 19:07

Client ID: 1660-CAL3A

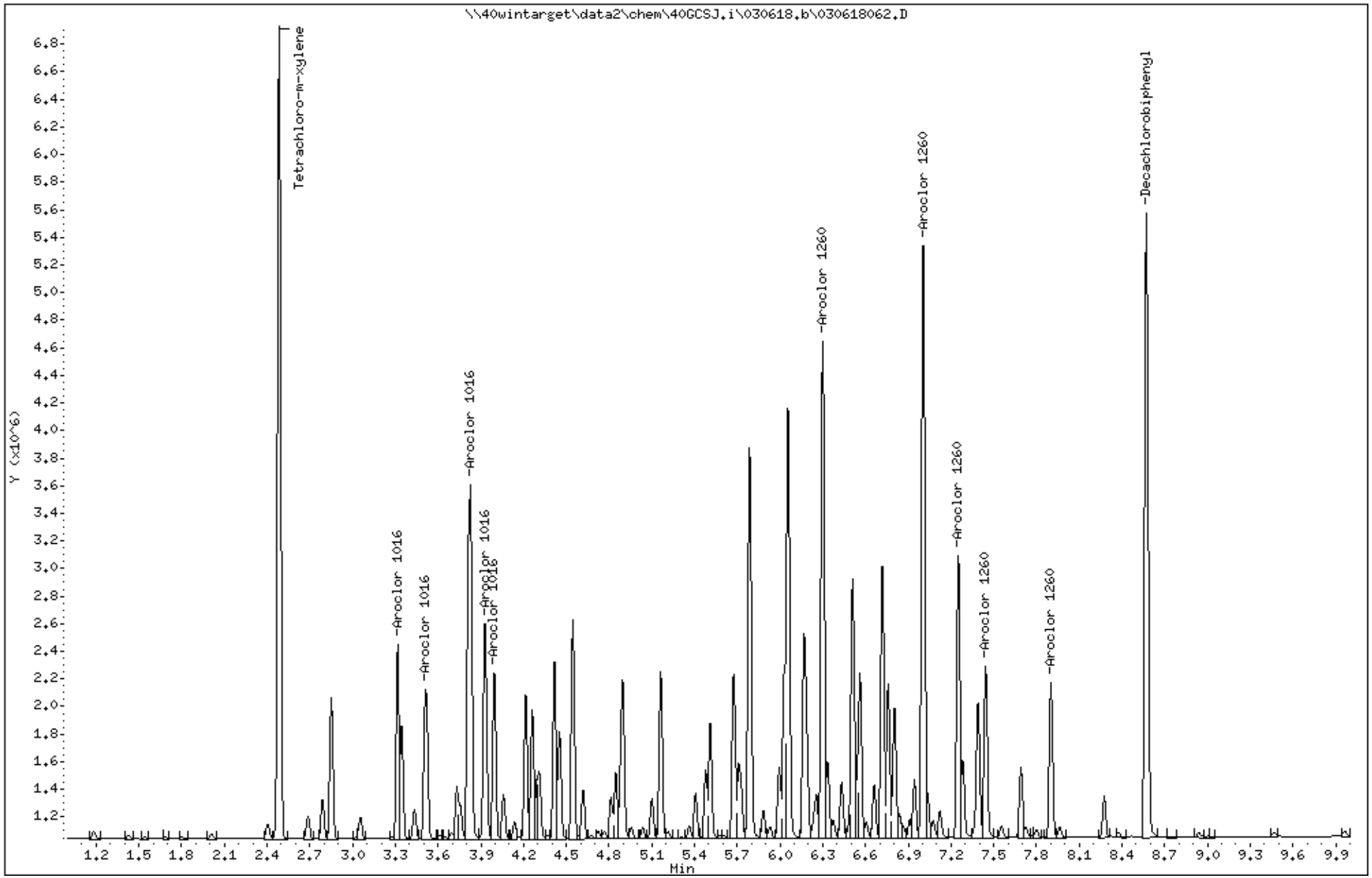
Instrument: 40GCSJ.i

Sample Info: 1660-CAL3A, 185559:1

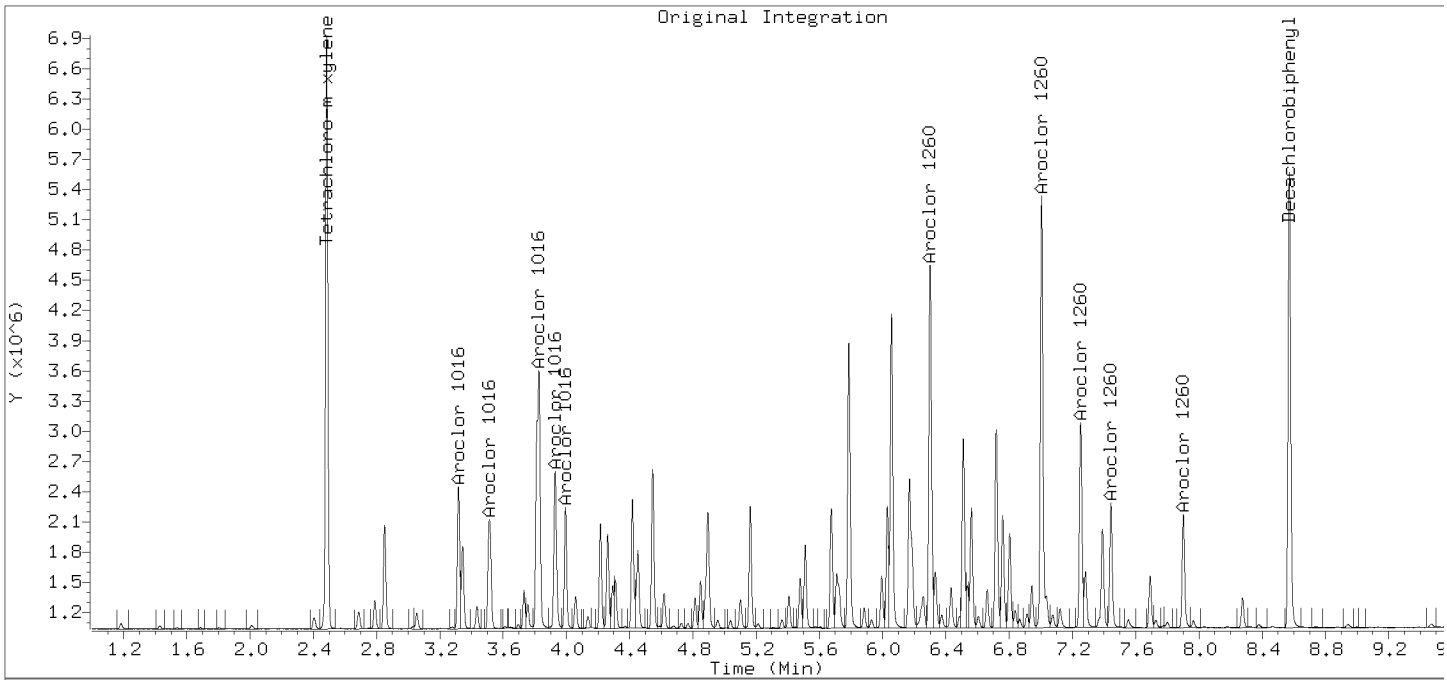
Operator: BLM

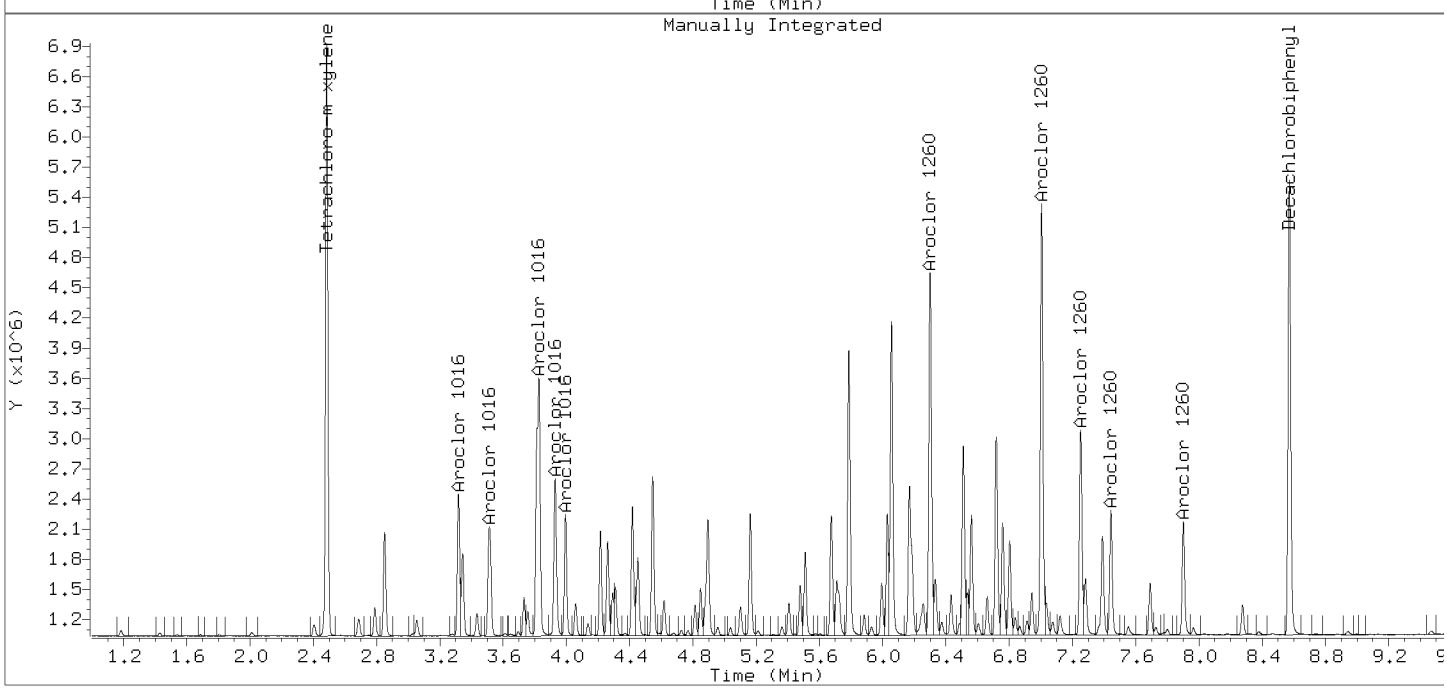
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

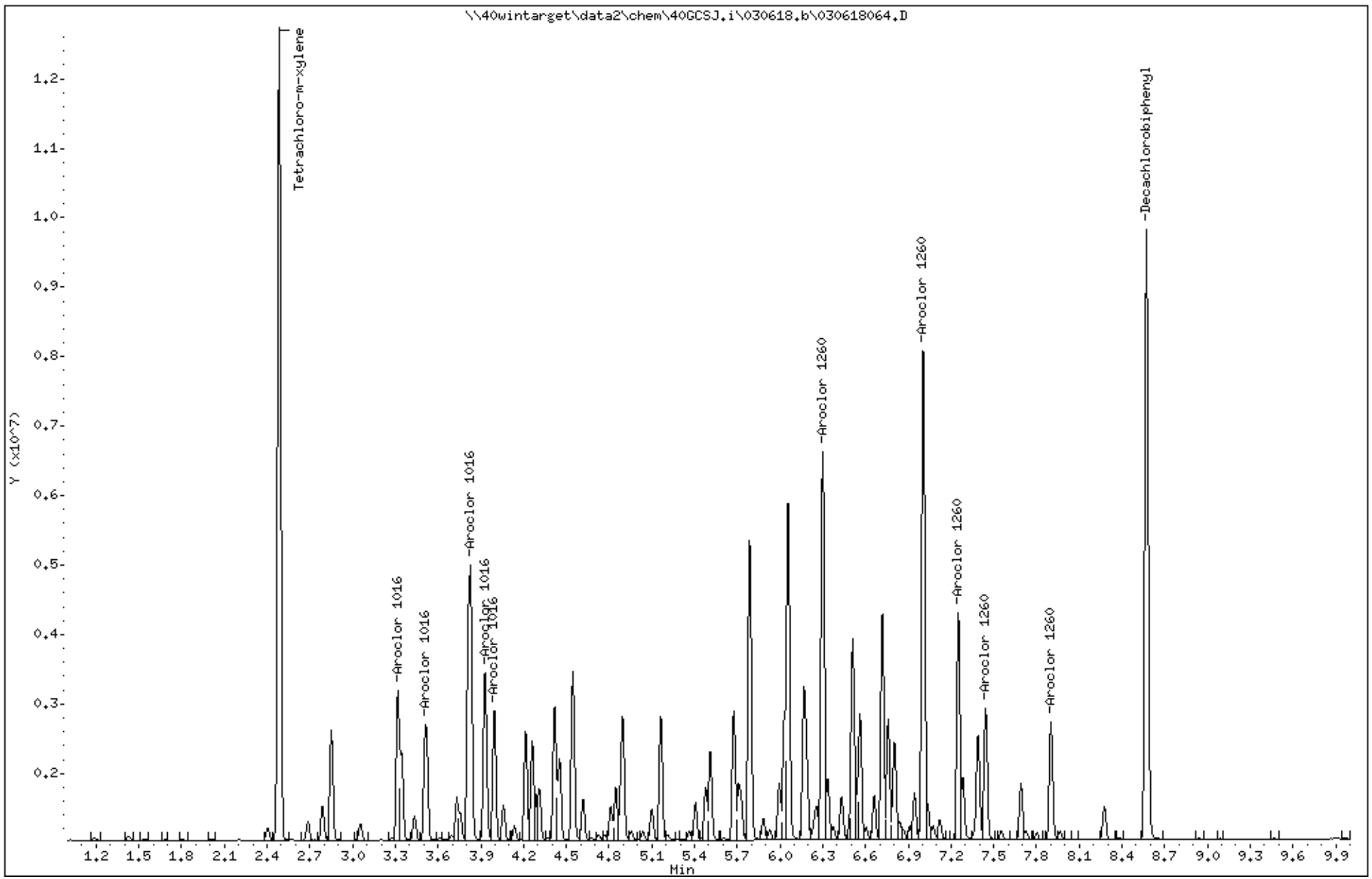
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

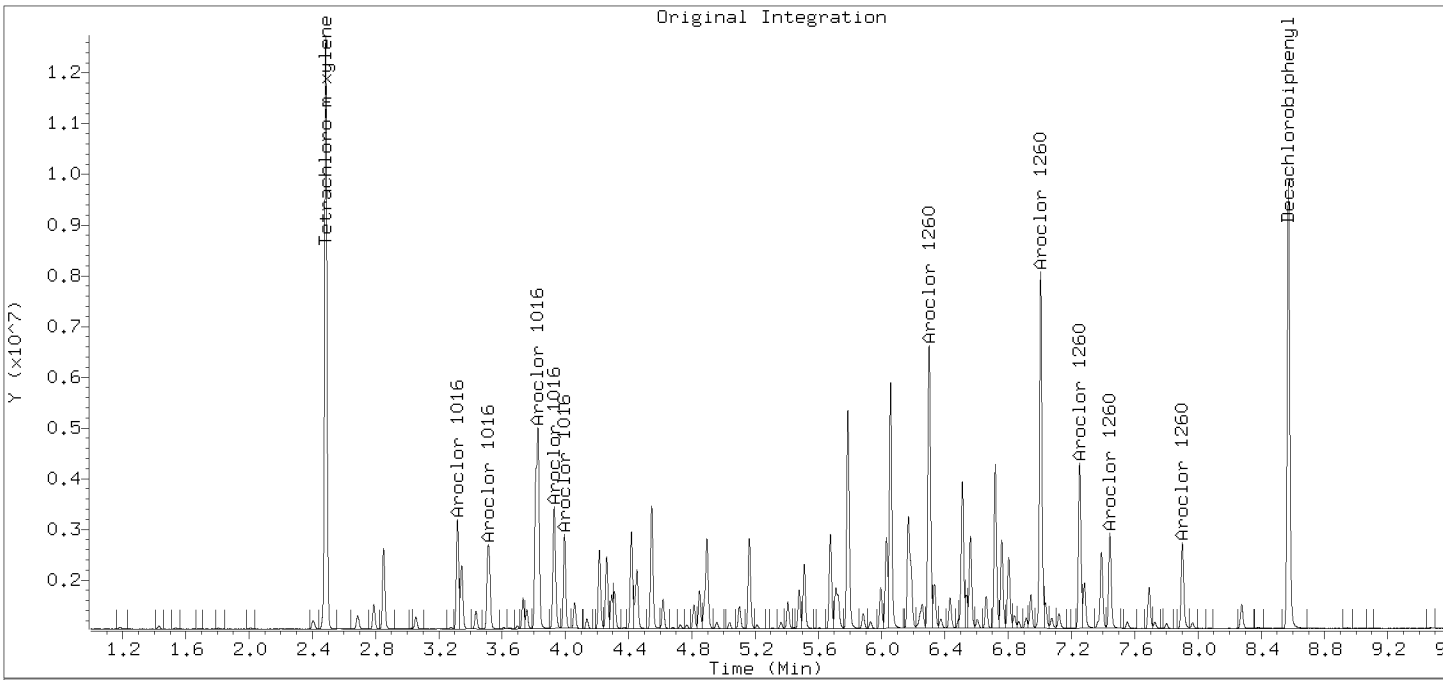
Operator: BLM

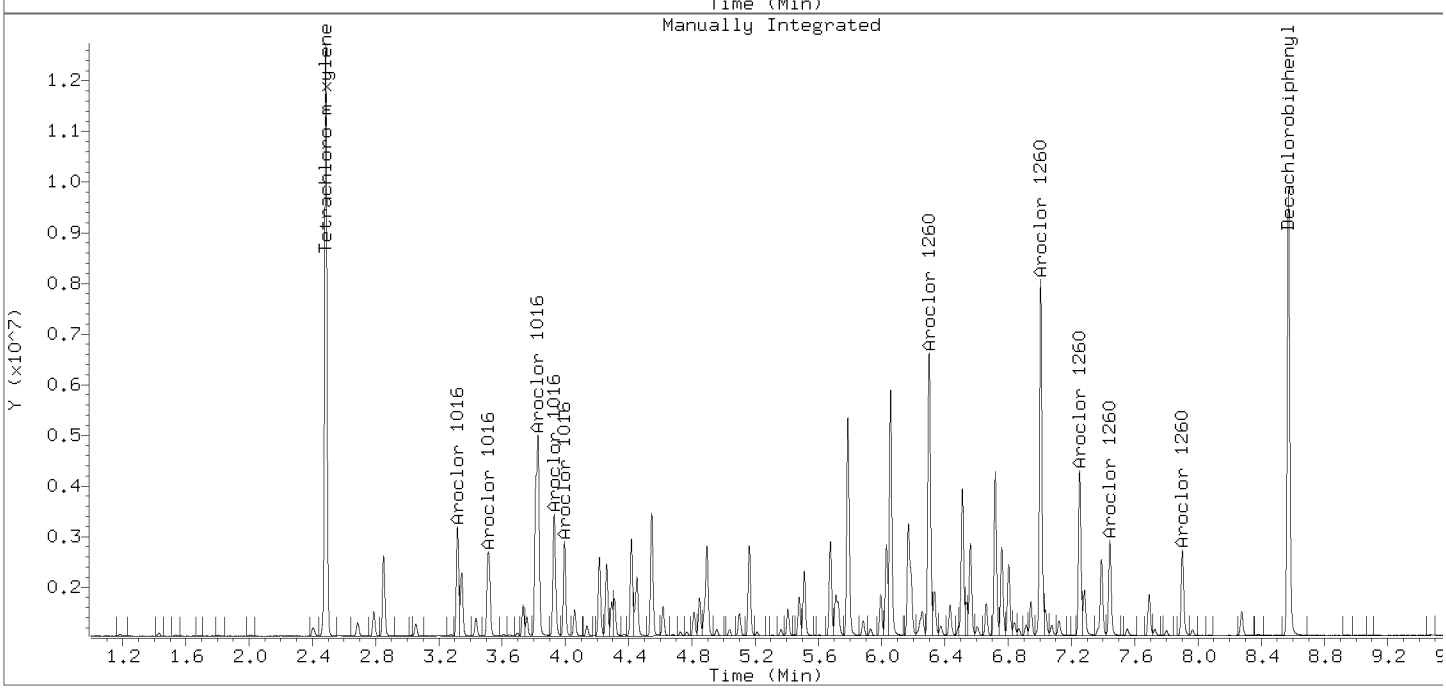
Column phase: ZB-1ms

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	

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

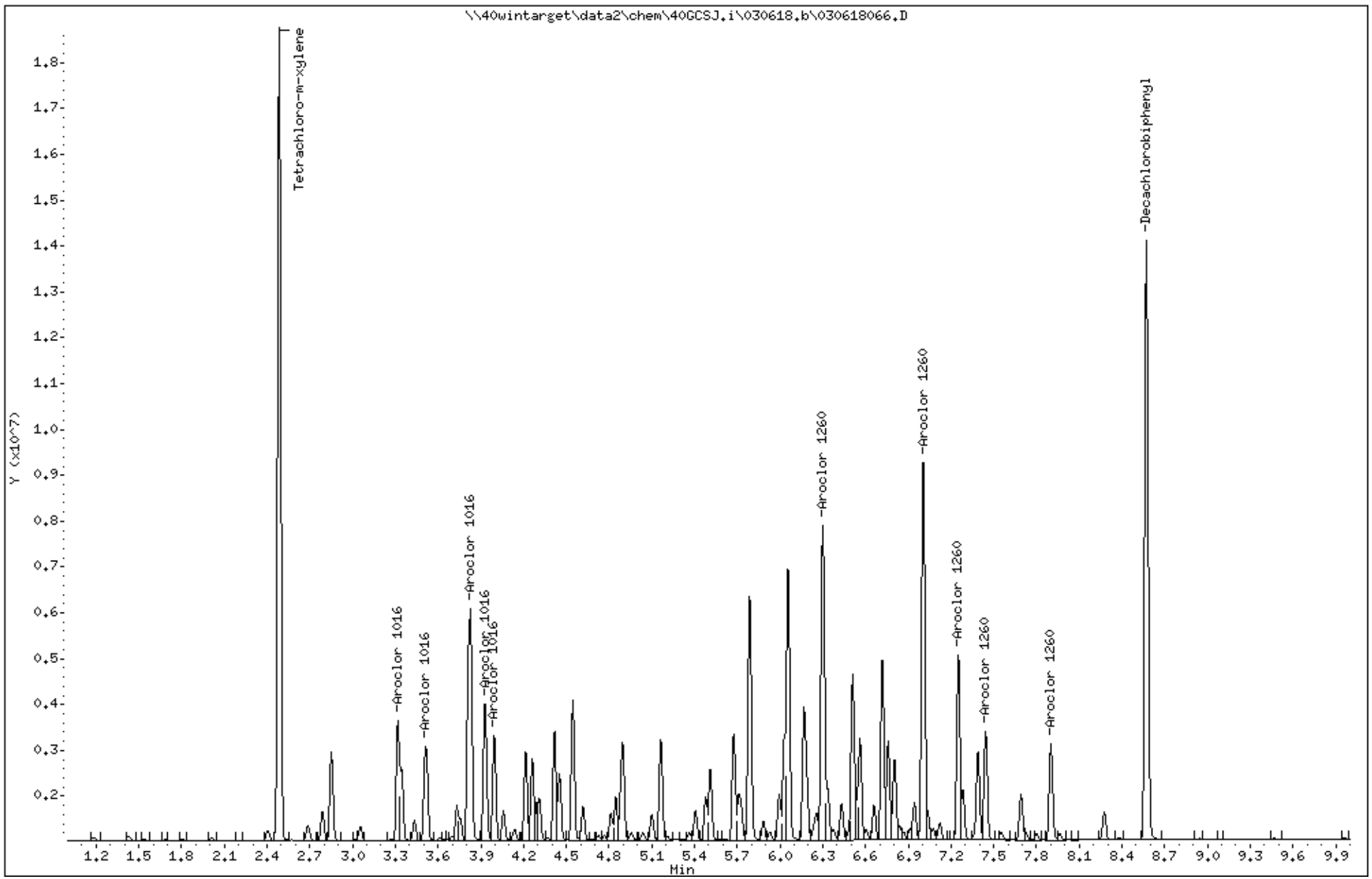
M - Compound response manually integrated.

Review Codes Legend

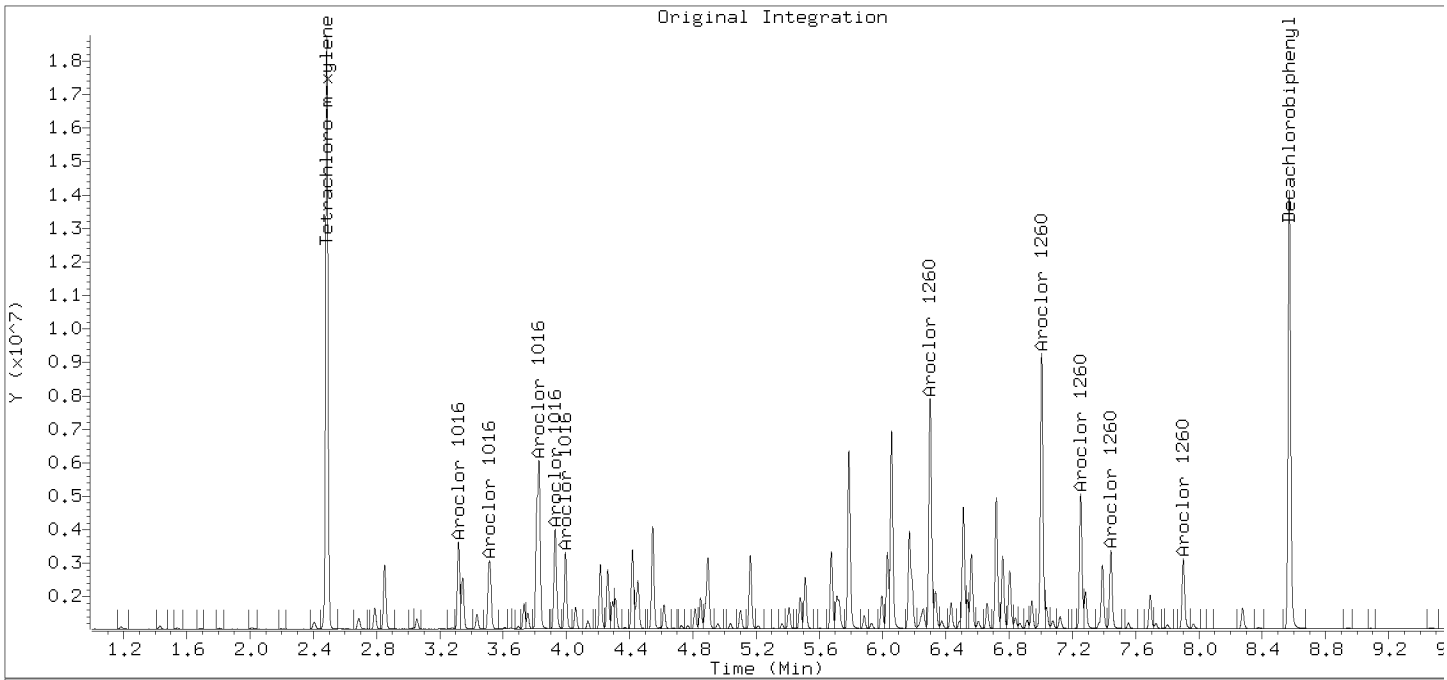
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

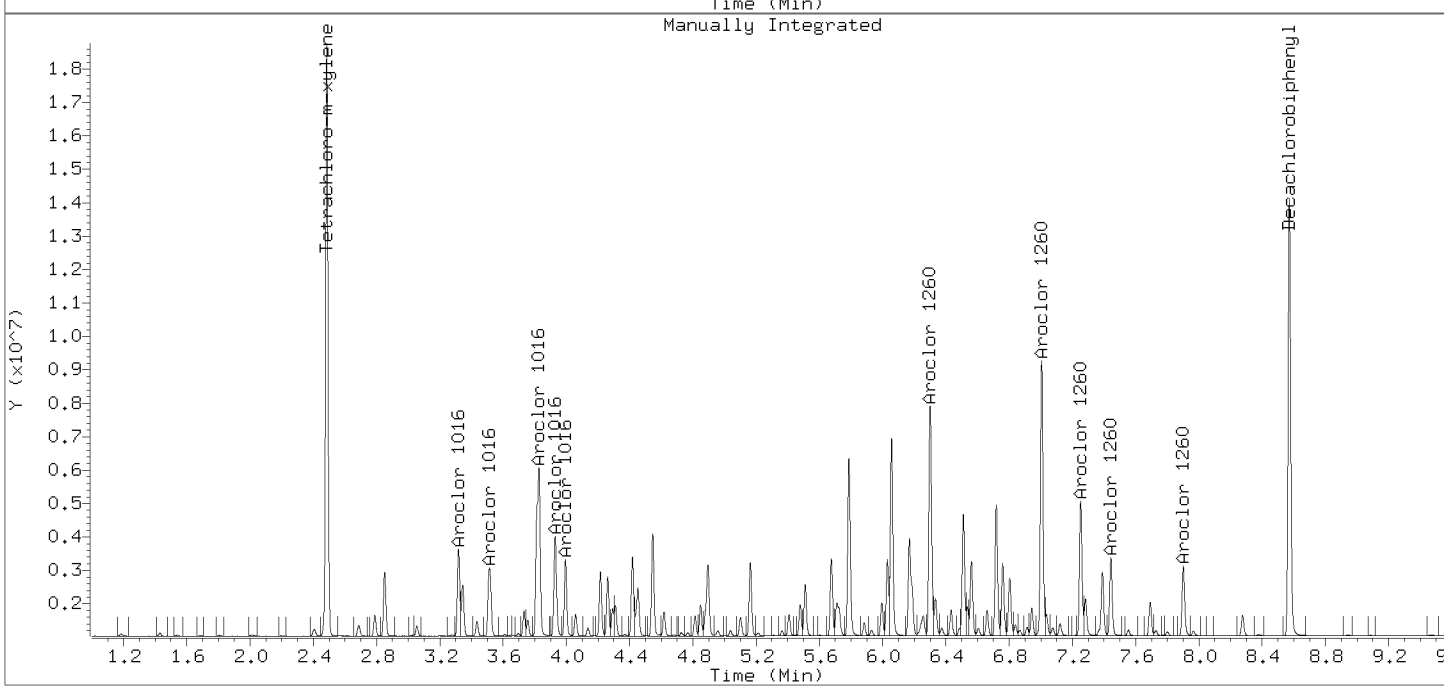
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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.: 40151616

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

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

SAMPLE NO.

10757932ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151616

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

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

SAMPLE NO.

10757923ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151616

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

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

SAMPLE NO.

10757930ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151616

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

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

SAMPLE NO.

10757911ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151616

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

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

SAMPLE NO.

10860013CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/23/2018 Time: 13:25

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

Lab File ID: 032318.B\032318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	2546654.00	0.5312
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2528060.00	0.3185
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7066942.00	-0.6958
Aroclor 1242	4	Averaged	3.929	3.895	3.963	3041534.65	3028536.00	-0.4274
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2011672.00	-1.7617
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	104280400.	-4.8189
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118932640.	-3.5382

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

SAMPLE NO.

10860015CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/23/2018 Time: 16:35

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

Lab File ID: 032318.B\032318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	2443730.00	4.3004
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4277822.00	3.0724
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2160242.00	6.4117
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5300408.00	5.2202
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3797570.00	5.8248
Decachlorobiphenyl (S)		Averaged	8.568	8.537	8.605	109559990.	110950540.	1.2692
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	122703060.	-0.4802

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

SAMPLE NO.

10850752CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 13:55

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

Lab File ID: 032718.B\032718004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	973054.000	-6.5500
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	513248.000	-6.3147
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1293026.00	-6.5285
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1008344.00	-8.8107
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3070240.00	-5.6877
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	97313000.0	-11.1783
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	115912980.	-5.9874

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

SAMPLE NO.

10850753CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 17:05

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

Lab File ID: 032718.B\032718016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.85	2.817	2.885	2500024.00	2681994.00	7.2787
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1400658.00	4.5437
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4023370.00	7.2977
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1720932.00	7.1236
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1148408.00	5.1775
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105022320.	-4.1417
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119771560.	-2.8578

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

SAMPLE NO.

10850754CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 20:15

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

Lab File ID: 032718.B\032718028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	2610852.00	3.0654
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2579278.00	2.3509
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7388808.00	3.8270
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3166486.00	4.1082
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2104988.00	2.7953
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108048260.	-1.3798
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120904680.	-1.9388

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

SAMPLE NO.

10850858CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/28/2018 Time: 14:08

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

Lab File ID: 032818.B\032818004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	5124282.00	-2.1196
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4255840.00	-1.0512
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	7612740.00	-1.9743
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4718196.00	-3.1108
Aroclor 1254	5	Averaged	6.299	6.265	6.333	6507103.75	6375960.00	-2.0154
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106206800.	-3.0606
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119729540.	-2.8919

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

SAMPLE NO.

10850859CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/28/2018 Time: 17:19

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

Lab File ID: 032818.B\032818016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	3099454.00	0.6045
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3117950.00	0.6114
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	8944602.00	0.9345
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	3819642.00	1.0428
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2580570.00	-0.8750
Aroclor 1260	1	Averaged	6.3	6.266	6.334	8862352.50	8972568.00	1.2436
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10212116.0	1.9746
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	4901806.00	2.5525
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3007592.00	3.1725
Aroclor 1260	5	Averaged	7.899	7.867	7.935	2638735.95	2707782.00	2.6166
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111870520.	2.1089
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	122758840.	-0.4349

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

SAMPLE NO.

10850971CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151616

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

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

SAMPLE NO.

10850970CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151616

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

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

SAMPLE NO.

10860058CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/05/2018 Time: 14:07

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

Lab File ID: 040518.B\040518004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	2399018.00	2.3920
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4130584.00	-0.4752
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	1943748.00	-4.2526
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	4977884.00	-1.1824
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3408276.00	-5.0235
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	106355840.	-2.9246
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	121675920.	-1.3133

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

SAMPLE NO.

10860057CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/05/2018 Time: 17:18

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

Lab File ID: 040518.B\040518016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151616

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	5360540.00	2.3932
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4417658.00	2.7110
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	7966952.00	2.5867
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4910110.00	0.8302
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	6650844.00	2.2090
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111142300.	1.4442
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124666640.	1.1124

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.430	40840	33323	0.816	0.23		
1.537	17254	12915	0.749	0.09		
1.688	12270	8463	0.690	0.07		
1.804	537154	469858	0.875	3.07	1 Aroclor 1221	BA
2.158	11282	10928	0.969	0.06		
2.198	158378	141258	0.892	0.90		
2.407	279229	204848	0.734	1.60	1 Aroclor 1221	BA
2.485	5973454	5698500	0.954	34.47	$ 2 Tetrachloro-m-xylene	BA
2.688	723322	608616	0.841	4.14	1 Aroclor 1221	BA
2.789	557097	532699	0.956	3.19	1 Aroclor 1221	BA
2.851	1723482	1520837	0.882	9.87	1 Aroclor 1221	BA
3.053	42842	31274	0.730	0.24		
3.281	125722	92702	0.737	0.72		
3.324	409120	233739	0.571	2.34		
3.433	41957	33921	0.808	0.24		
3.514	152248	110173	0.724	0.87		
3.609	20491	17352	0.847	0.11		
3.693	13172	11957	0.908	0.07		
3.731	39776	40682	1.023	0.22		
3.755	38316	38664	1.009	0.21		
3.827	333479	205587	0.616	1.91		
3.930	166253	139975	0.842	0.95		
3.994	101078	94563	0.936	0.57		
4.058	16842	14008	0.832	0.09		
4.214	43249	38654	0.894	0.24		
4.260	30501	31686	1.039	0.17		
4.291	19839	13076	0.659	0.11		
4.418	34788	38094	1.095	0.19		
4.447	27970	19186	0.686	0.16		
4.544	57594	51561	0.895	0.33		
4.616	16740	13977	0.835	0.09		
4.815	23044	20925	0.908	0.13		
4.847	36853	34664	0.941	0.21		
4.879	53269	36786	0.691	0.30		
5.037	34294	32438	0.946	0.19		
5.103	10234	8648	0.845	0.05		
5.408	11500	8513	0.740	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.512	18851	12253	0.650	0.10	
5.783	9303	7027	0.755	0.05	
6.347	10003	6690	0.669	0.05	
6.867	9564	7223	0.755	0.05	
7.729	30210	25344	0.839	0.17	
7.802	20371	17570	0.862	0.11	
8.278	45102	38714	0.858	0.25	
8.572	5321926	4509273	0.847	30.49	$ 12 Decachlorobiphenyl
8.942	13753	10341	0.752	0.07	
9.470	11610	10452	0.900	0.06	
9.960	25620	14968	0.584	0.14	
	17451246	15314905		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5973454	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	537154	0.50000	0.52	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	279229	0.50000	0.51	0.00- 20.00	51.98	BA
2.688	2.688	0.000	723321	0.50000	0.52	0.00- 20.00	134.66	BA
2.789	2.789	0.000	557097	0.50000	0.50	0.00- 20.00	103.71	BA
2.851	2.851	0.000	1723482	0.50000	0.53	0.00- 20.00	320.85	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5321926	0.05000	0.048			

QC Flag Legend

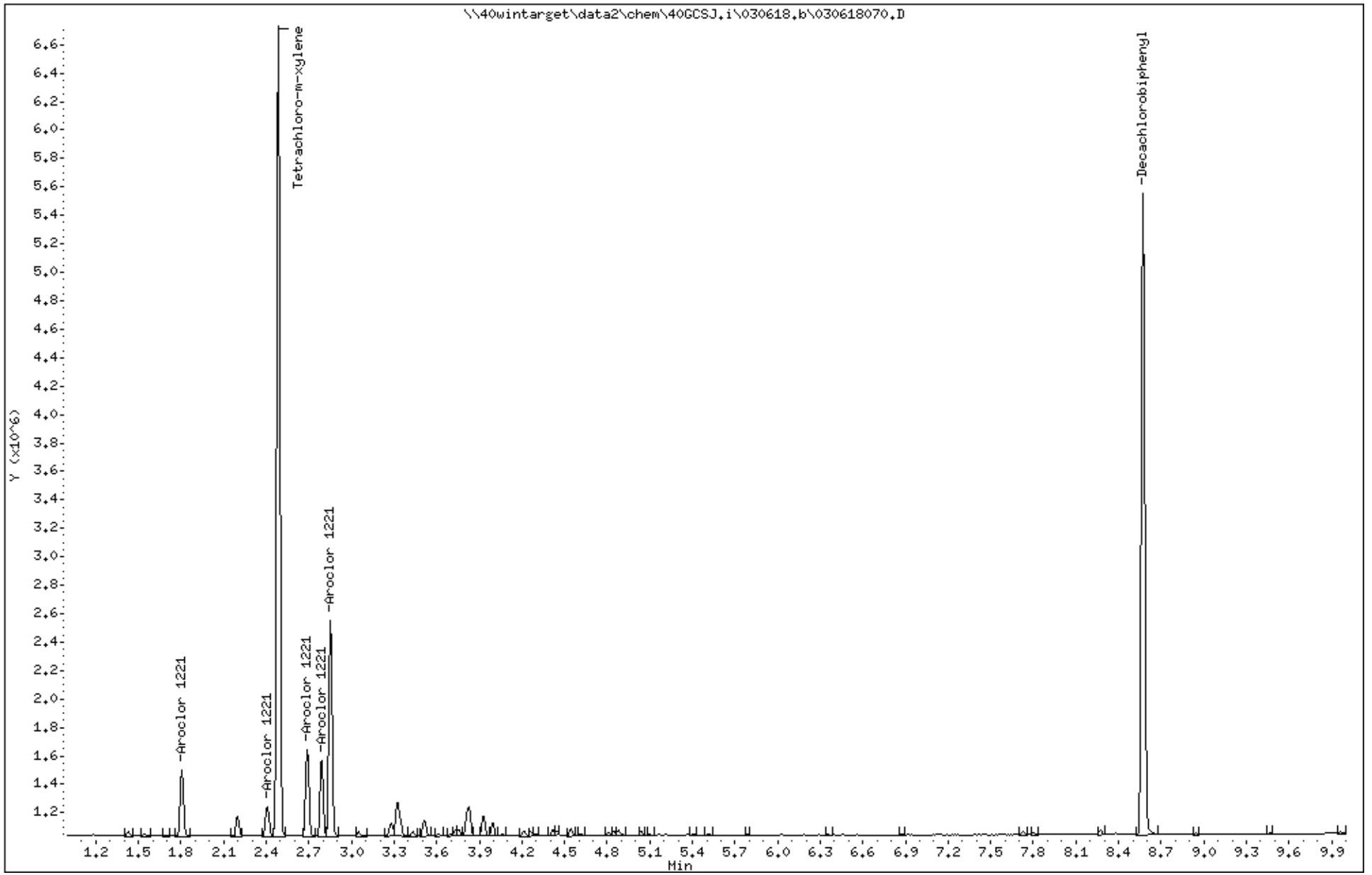
M - Compound response manually integrated.

Review Codes Legend

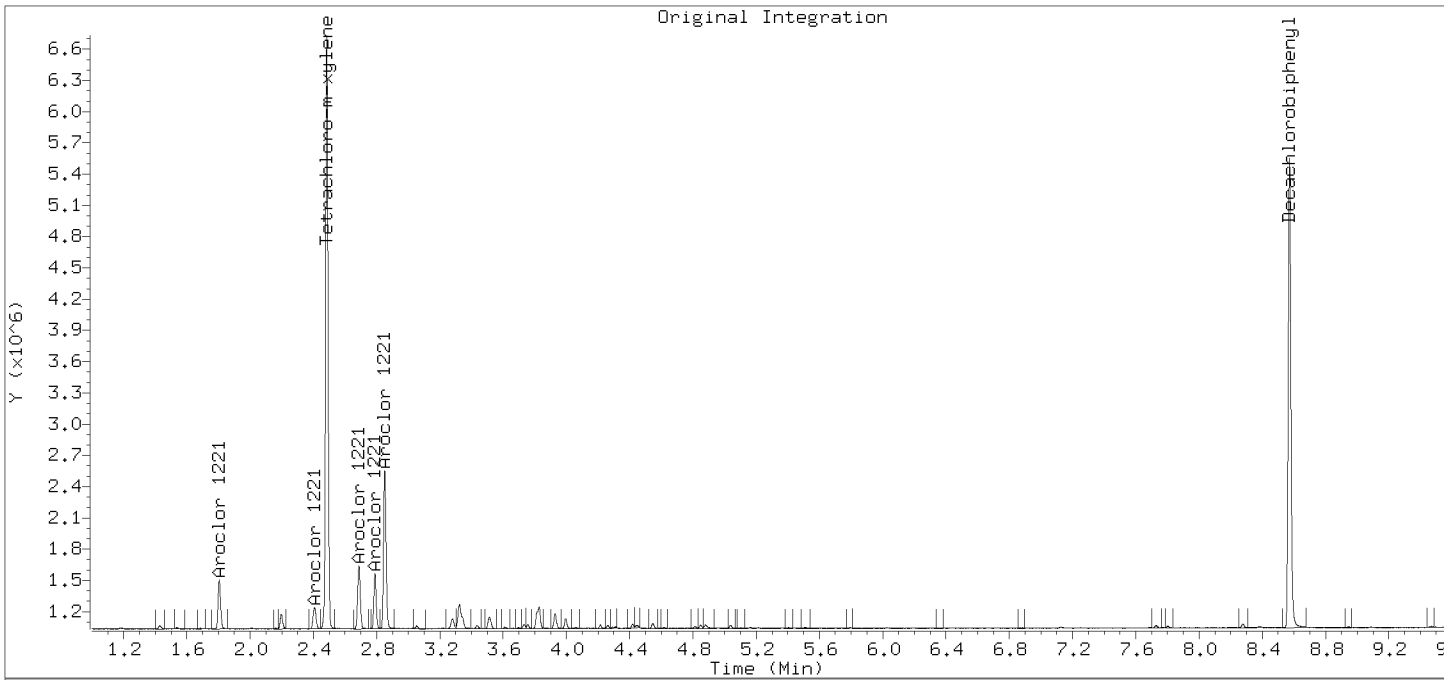
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

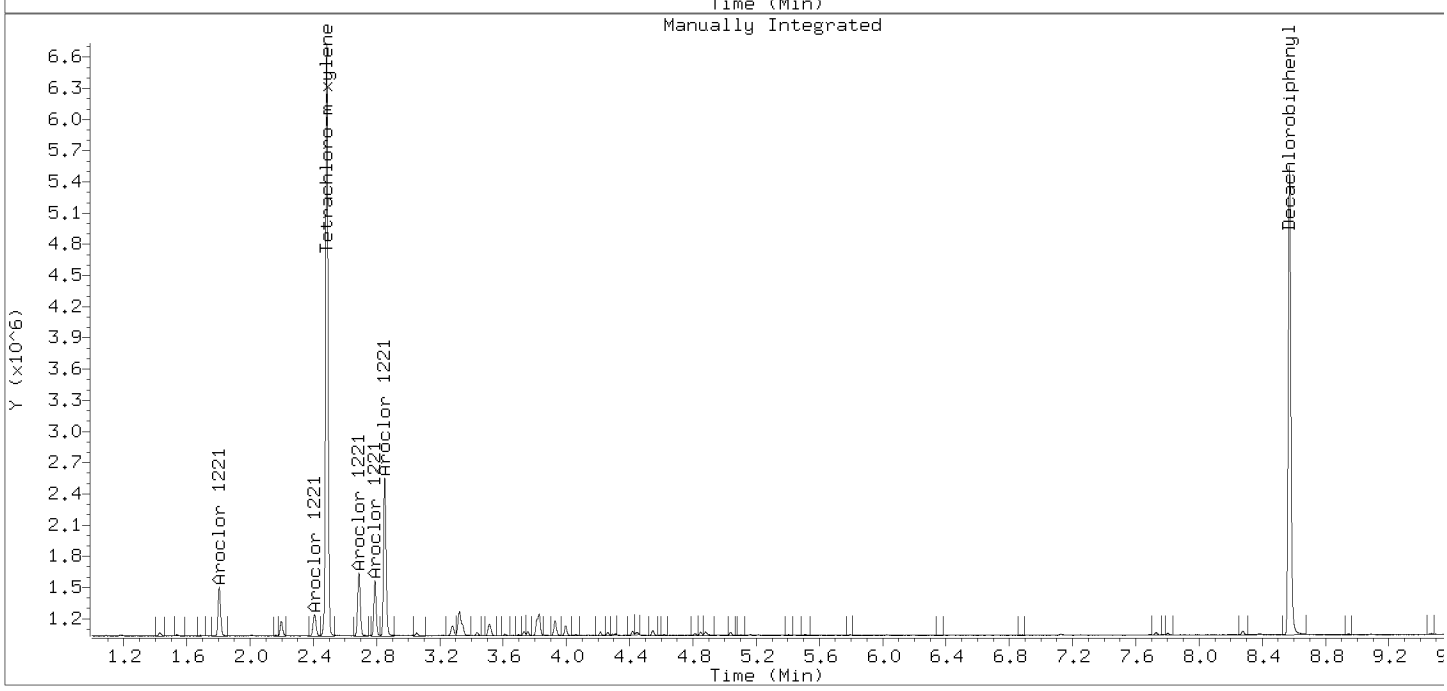
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618070.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 06-MAR-2018 20:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Tetrachloro-m-xylene	5952668	5973454	BA
Decachlorobiphenyl	5321926	5321926	

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D

Date : 06-MAR-2018 20:27

Client ID: 1242-ICV

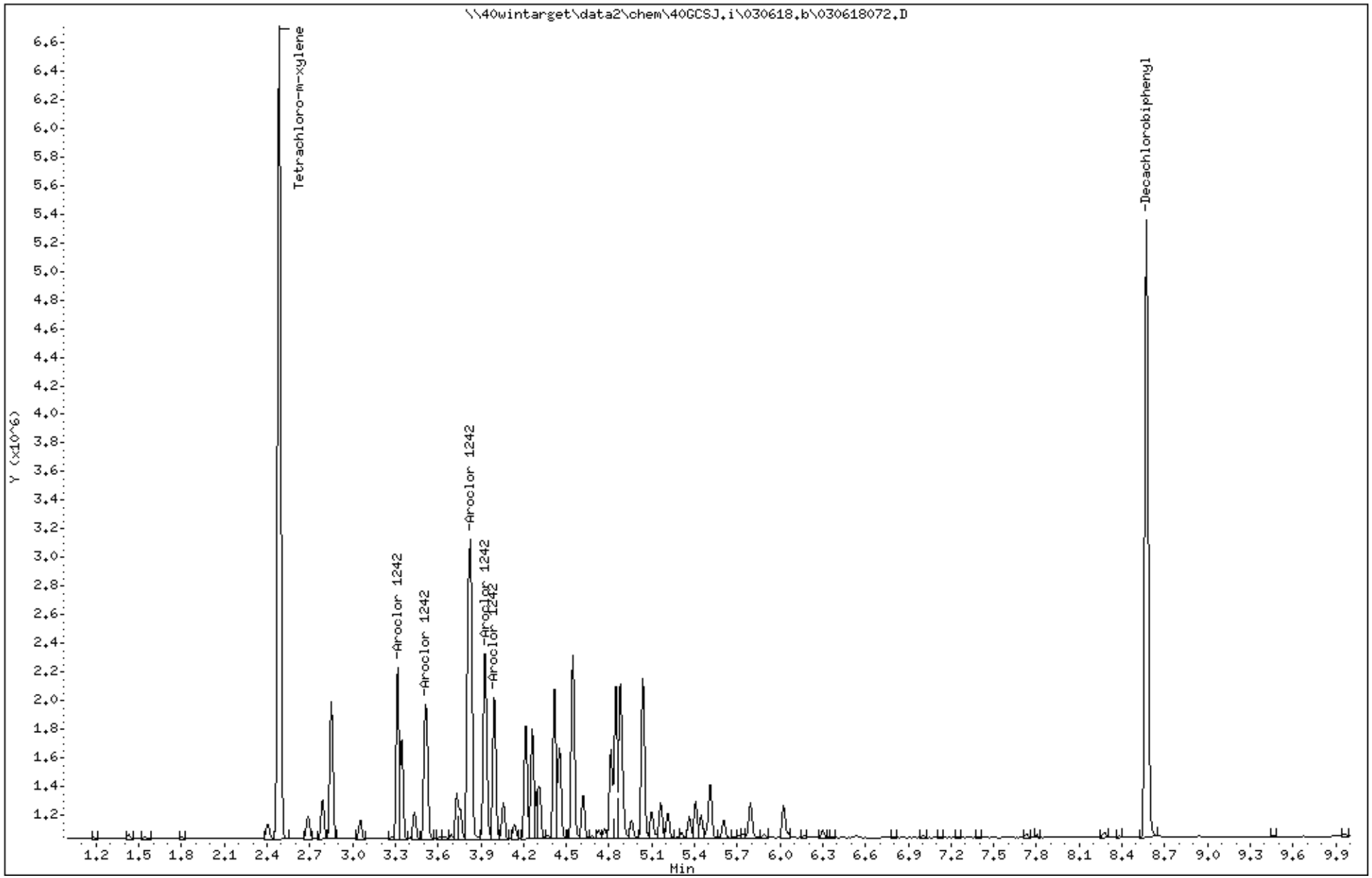
Instrument: 40GCSJ.i

Sample Info: 1242-ICV, 185562:1

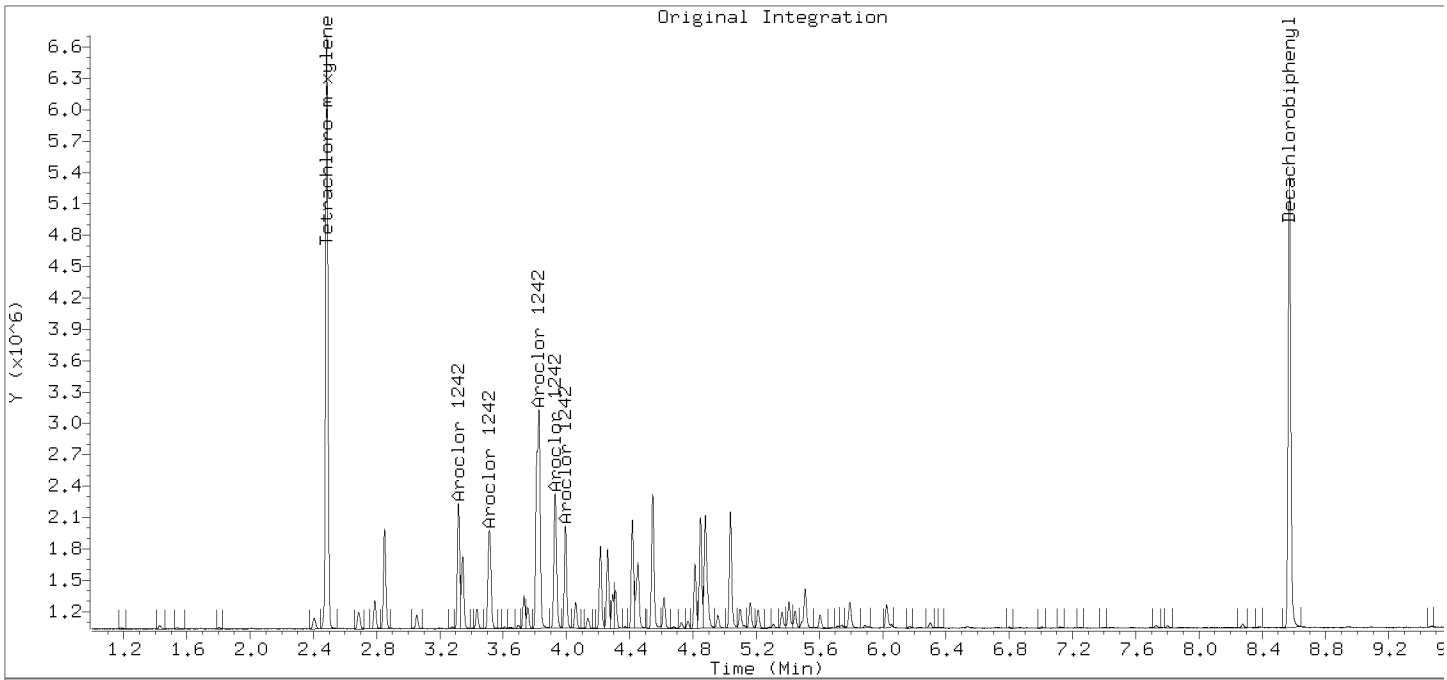
Operator: BLM

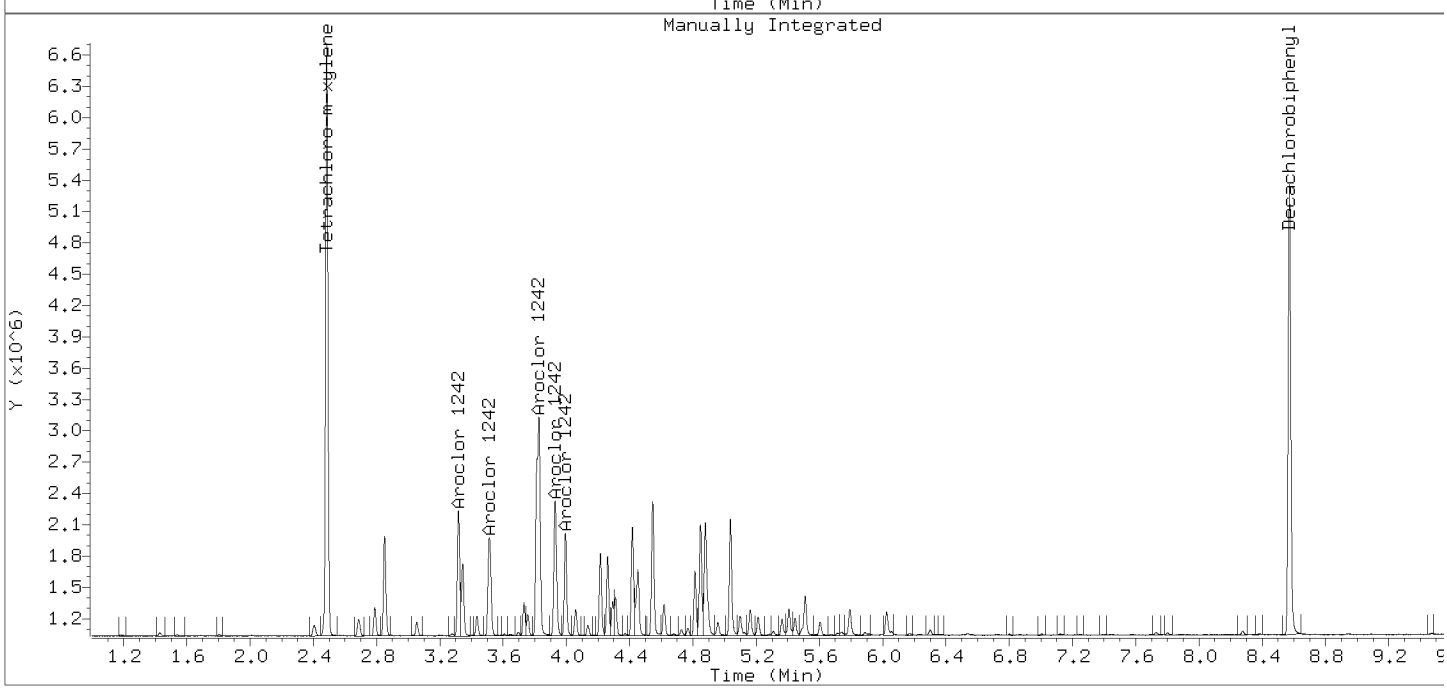
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

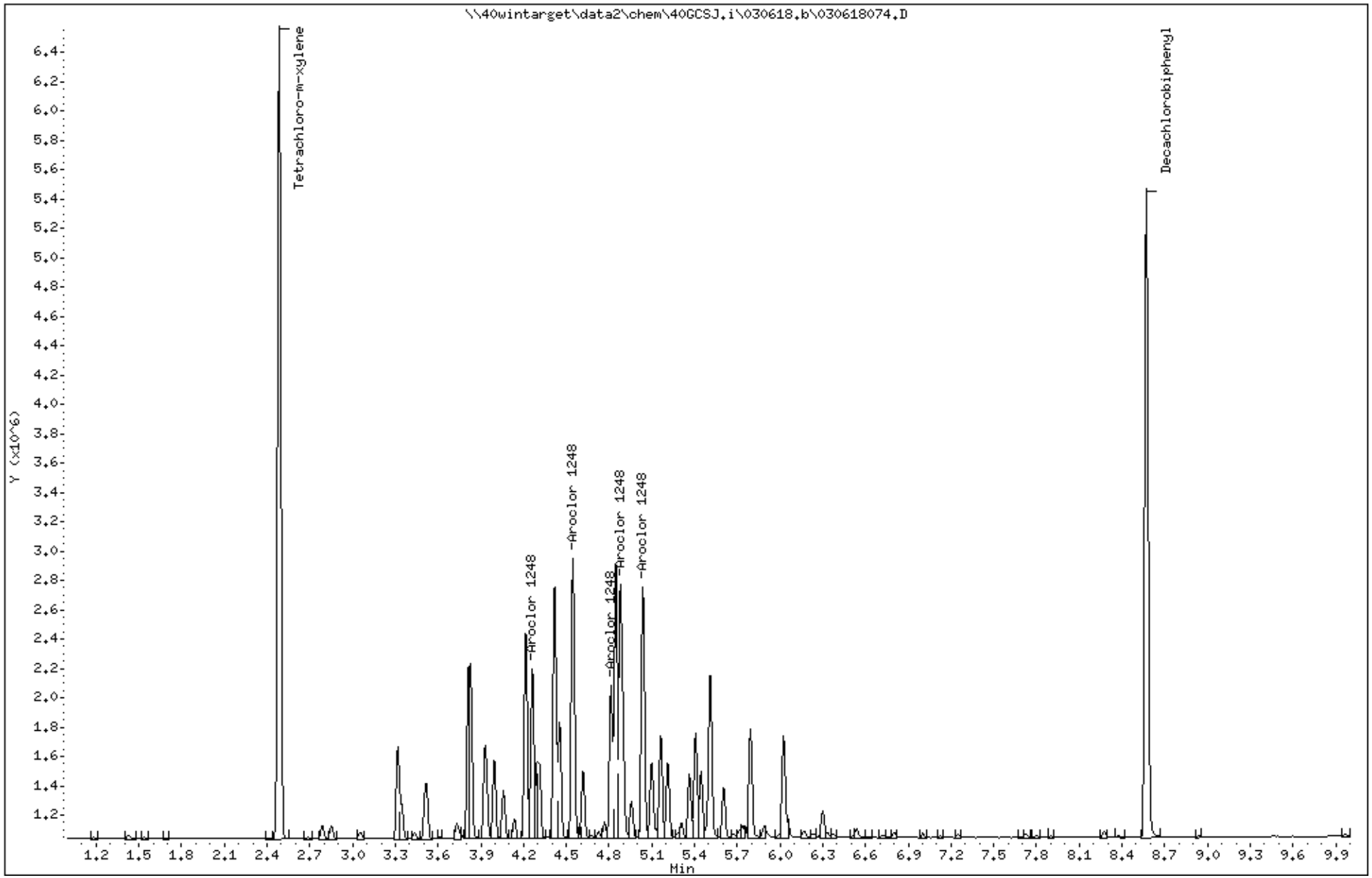
M - Compound response manually integrated.

Review Codes Legend

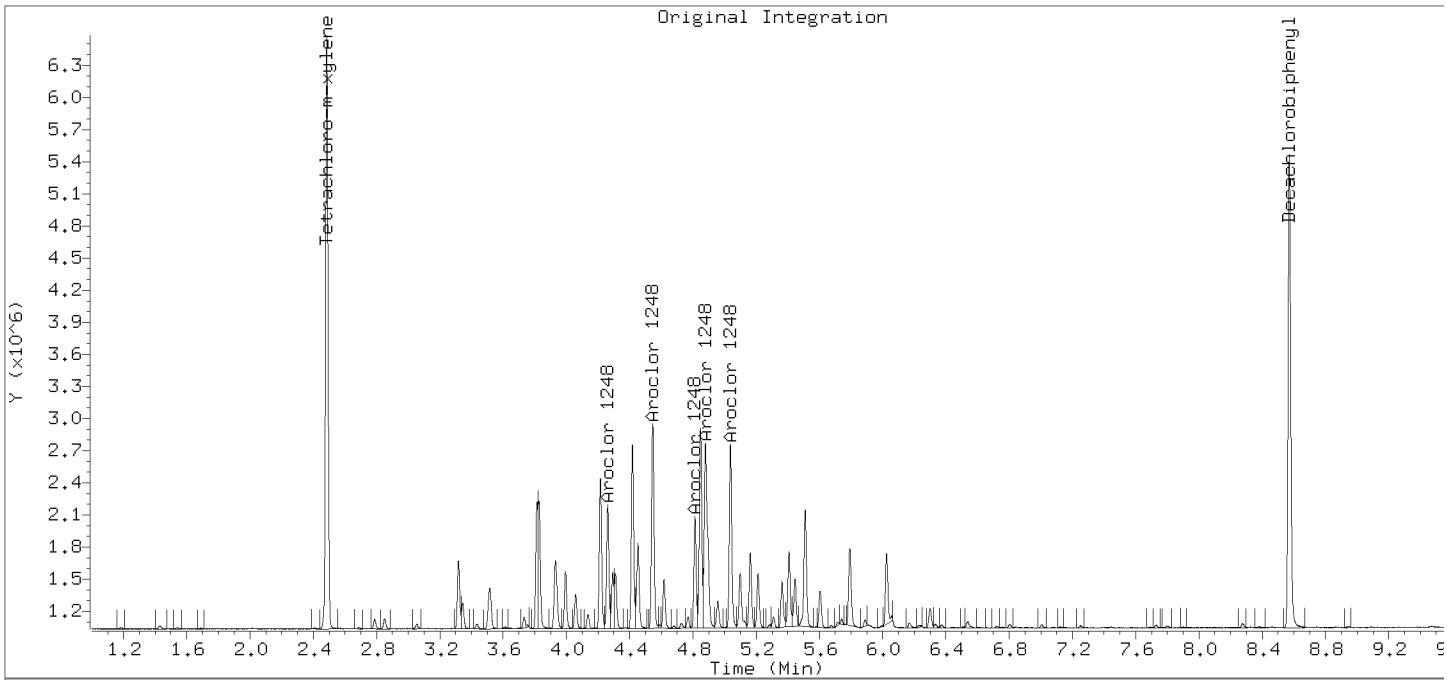
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

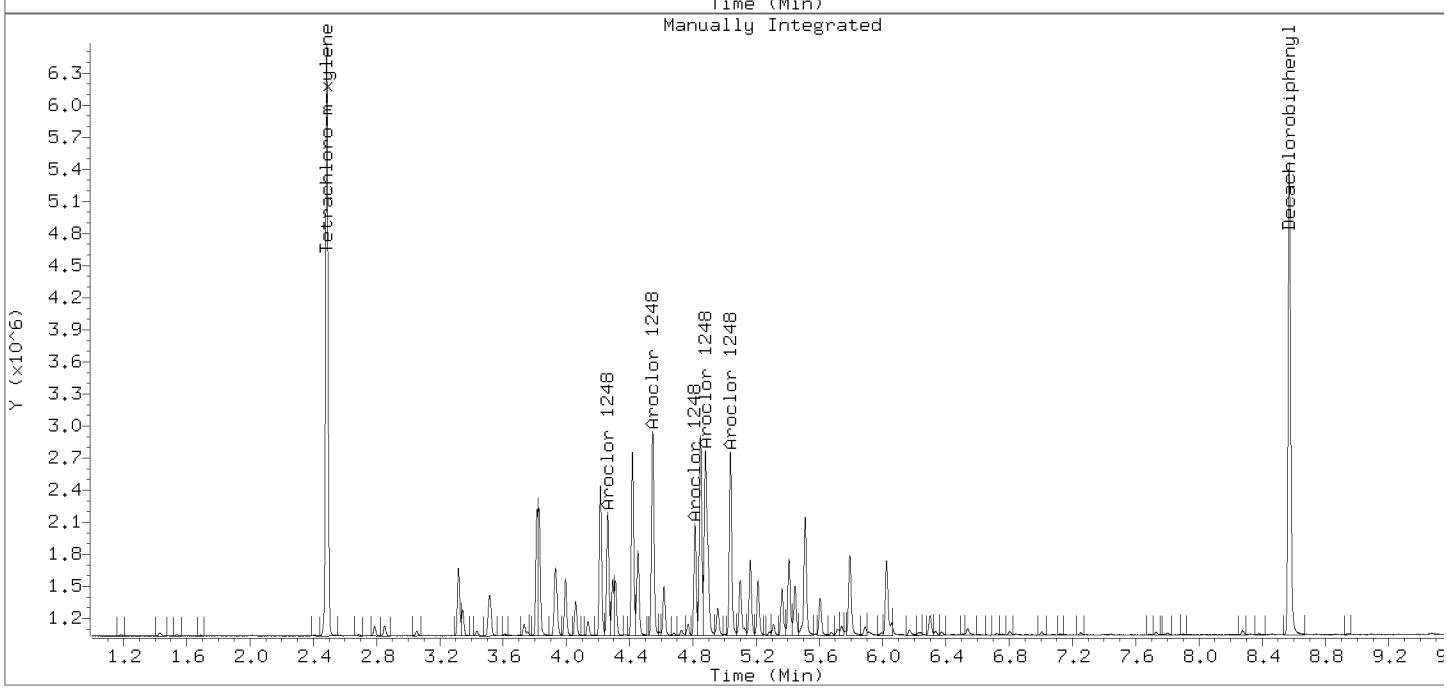
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

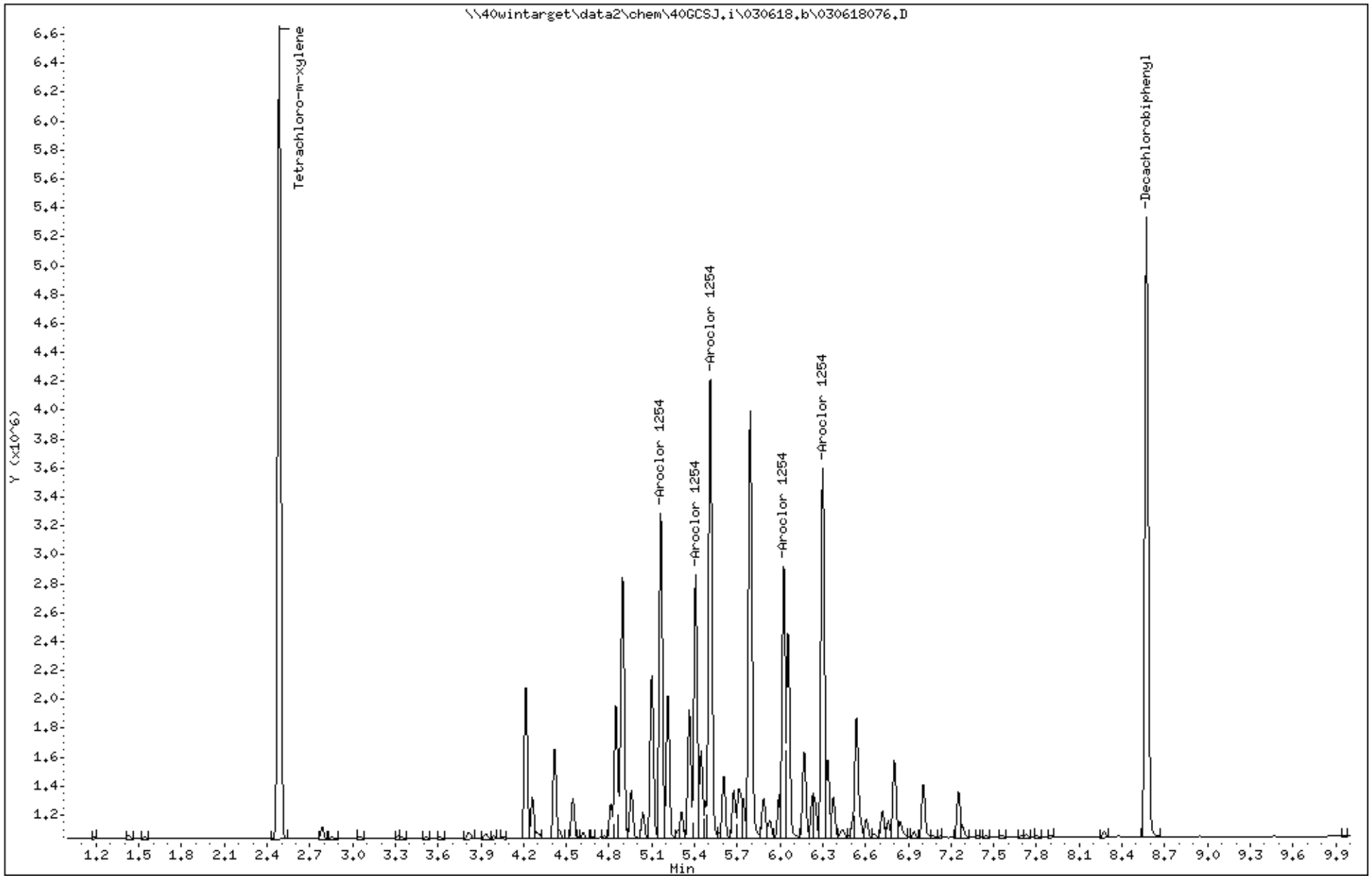
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

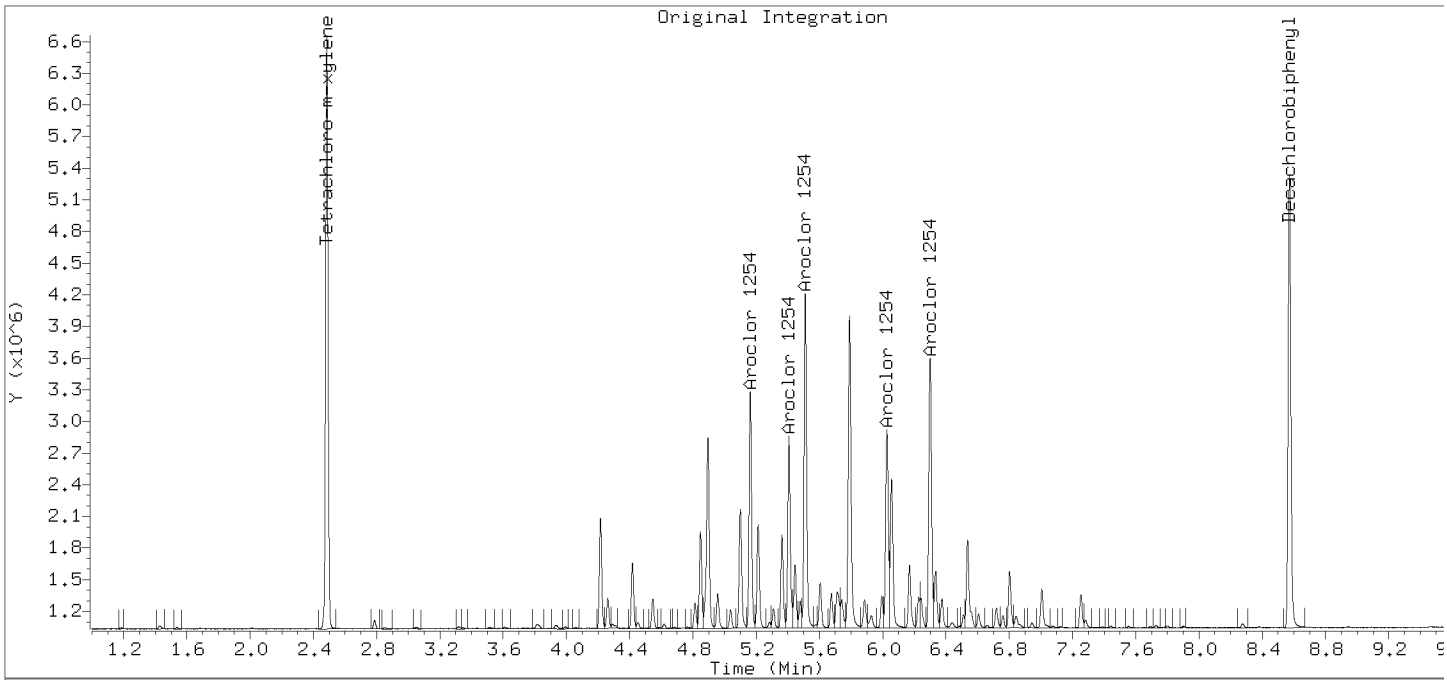
Operator: BLM

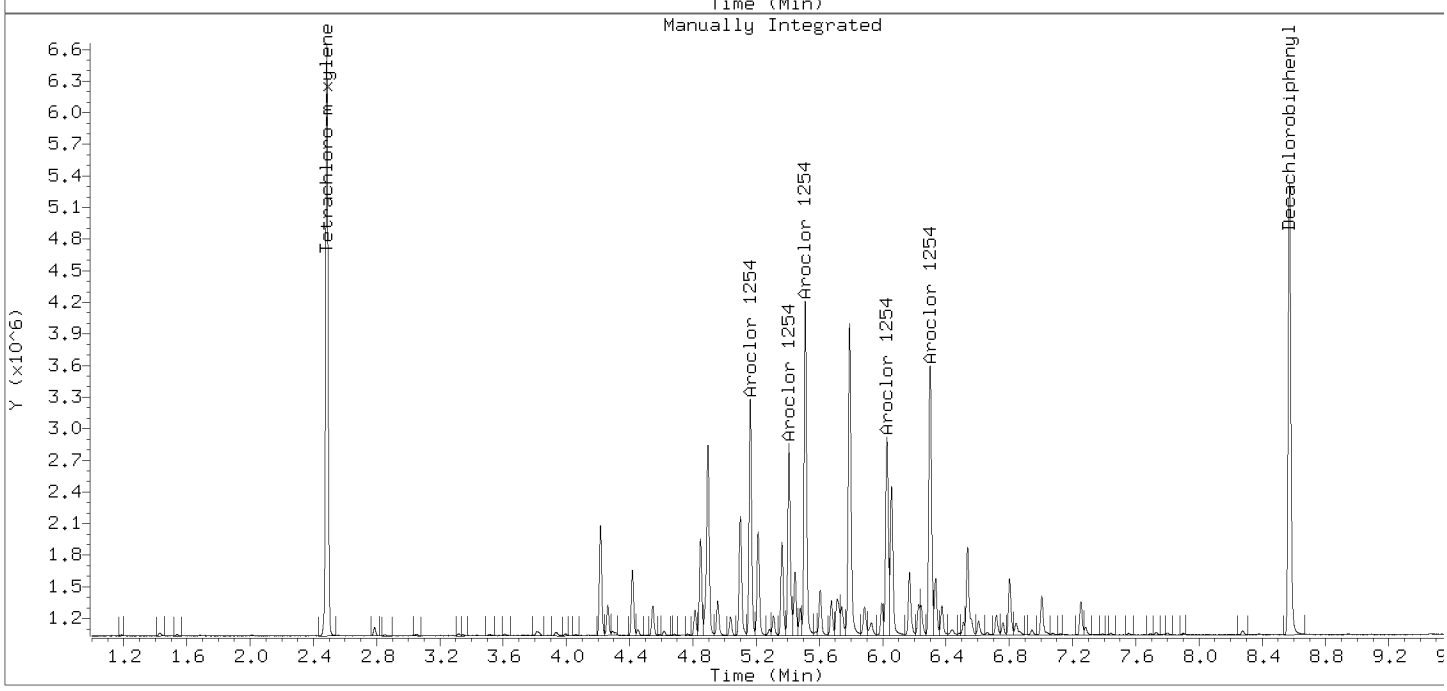
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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.

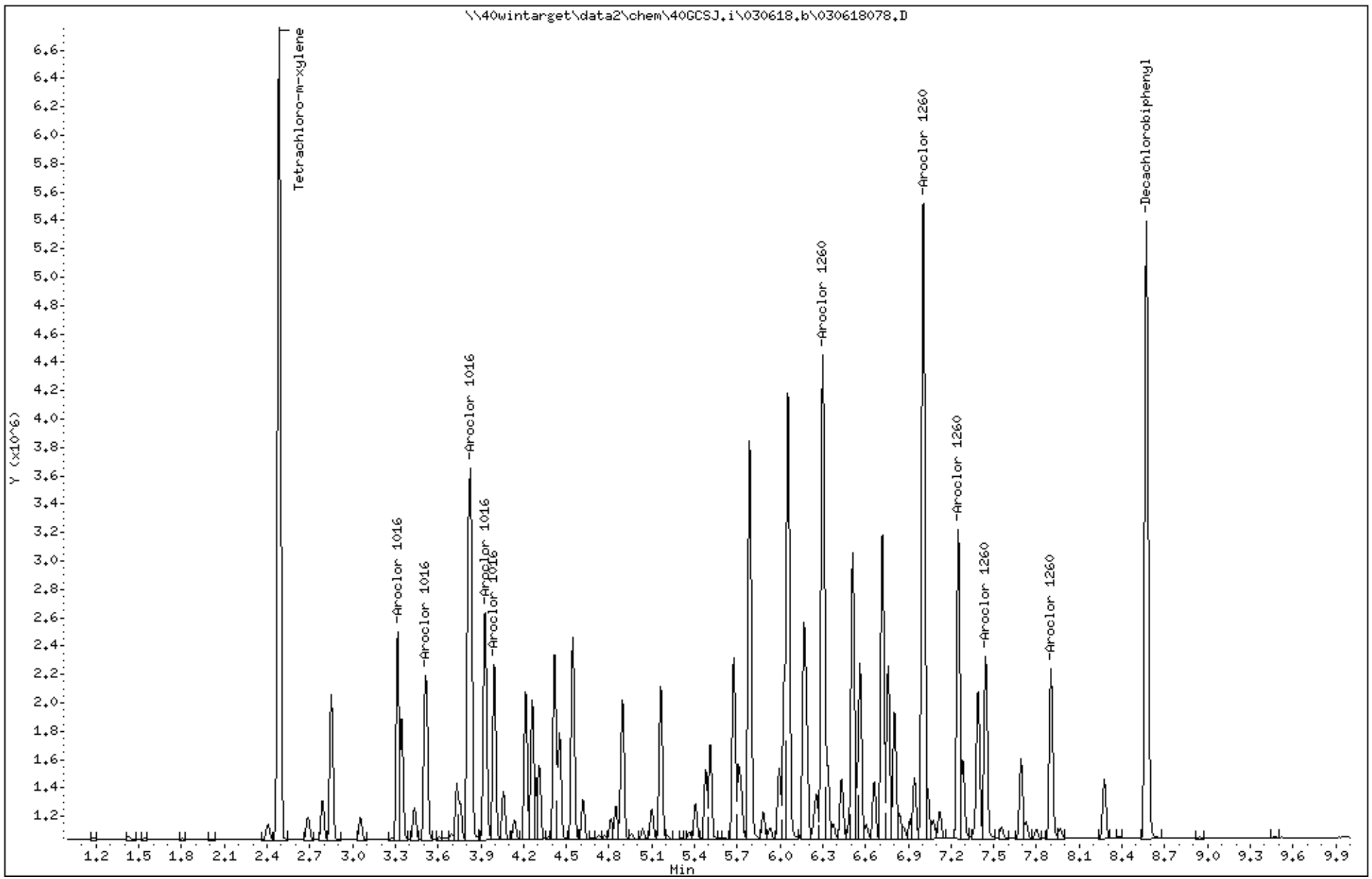
QC Flag Legend

Review Codes Legend

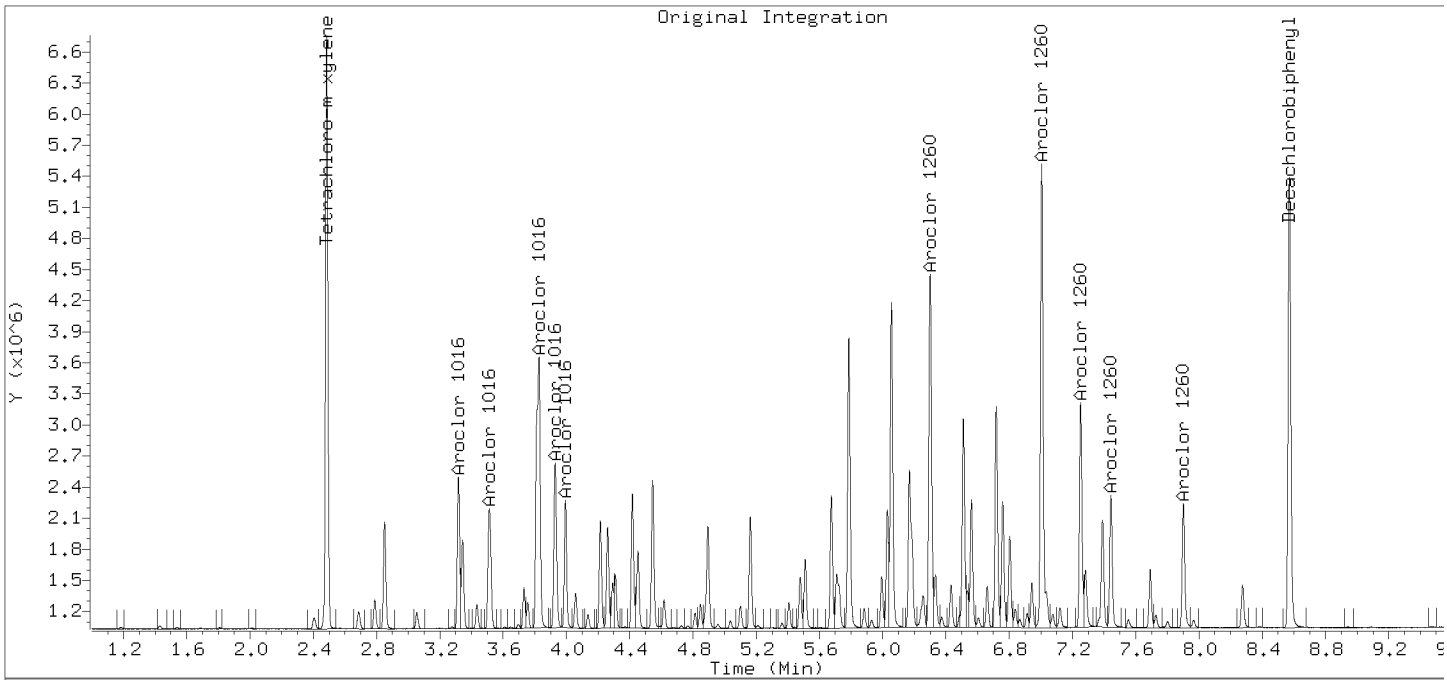
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

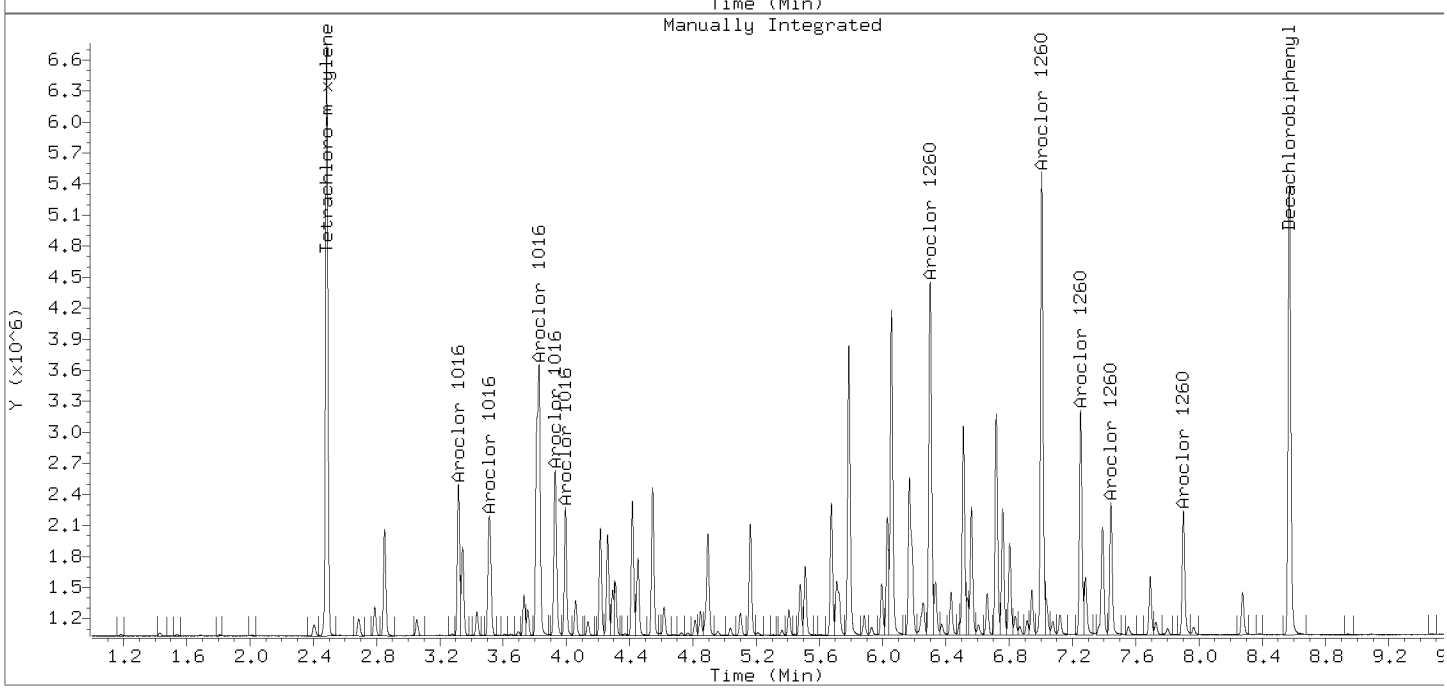
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\032318.b\032318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 23-MAR-2018 13:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	32893	27110	0.824	0.08		
1.428	37394	31958	0.855	0.09		
1.539	16598	14747	0.888	0.04		
1.686	23584	18128	0.769	0.06		
1.803	14604	14323	0.981	0.03		
2.005	16032	15095	0.942	0.04		
2.405	122496	94361	0.770	0.32		
2.484	5946632	5683844	0.956	15.98	$ 2 Tetrachloro-m-xylene	
2.687	174431	141980	0.814	0.45		
2.789	269897	248881	0.922	0.70		
2.851	939075	875293	0.932	2.45		
3.027	13636	14781	1.084	0.03		
3.055	147889	129725	0.877	0.38		
3.278	23815	18608	0.781	0.06		
3.318	1273327	1172545	0.921	3.33	3 Aroclor 1242	BA
3.343	734910	672570	0.915	1.92		
3.435	202624	185209	0.914	0.53		
3.513	1264030	924351	0.731	3.30	3 Aroclor 1242	BA
3.607	23664	18872	0.798	0.06		
3.644	24706	16241	0.657	0.06		
3.698	37740	33755	0.894	0.09		
3.731	322454	318269	0.987	0.84		
3.755	208417	195131	0.936	0.54		
3.826	3533471	2060501	0.583	9.25	3 Aroclor 1242	BA
3.930	1514268	1258643	0.831	3.96	3 Aroclor 1242	BA
3.994	1005836	991775	0.986	2.63	3 Aroclor 1242	BA
4.058	299425	276108	0.922	0.78		
4.136	120708	103795	0.860	0.31		
4.215	851335	801816	0.942	2.22		
4.261	816591	777718	0.952	2.13		
4.293	330755	348381	1.053	0.86		
4.311	428433	389836	0.910	1.12		
4.370	26701	20647	0.773	0.06		
4.417	1127491	1059075	0.939	2.95		
4.452	849415	642946	0.757	2.22		
4.545	1442254	1322877	0.917	3.77		
4.591	18639	20541	1.102	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	328515	301908	0.919	0.86	
4.678	26421	21129	0.800	0.06	
4.726	68705	60644	0.883	0.17	
4.768	78823	75727	0.961	0.20	
4.812	660685	658004	0.996	1.72	
4.847	1147057	1072305	0.935	3.00	
4.878	1462736	1088347	0.744	3.82	
4.957	167512	131680	0.786	0.43	
5.037	1194342	1118303	0.936	3.12	
5.098	265788	203956	0.767	0.69	
5.162	305543	274114	0.897	0.79	
5.212	230477	208824	0.906	0.60	
5.282	15278	16820	1.101	0.03	
5.308	53638	44394	0.828	0.14	
5.363	195199	169937	0.871	0.51	
5.406	337862	280025	0.829	0.88	
5.446	202883	181033	0.892	0.53	
5.510	530257	405334	0.764	1.38	
5.604	158370	141871	0.896	0.41	
5.714	34467	24765	0.719	0.09	
5.741	40221	38034	0.946	0.10	
5.792	356616	302276	0.848	0.93	
5.889	51029	34741	0.681	0.13	
6.024	301412	266204	0.883	0.78	
6.053	55448	49322	0.890	0.14	
6.169	23755	17488	0.736	0.06	
6.298	102823	84926	0.826	0.26	
6.334	25129	20077	0.799	0.06	
6.373	19136	13970	0.730	0.05	
6.535	41772	33129	0.793	0.10	
6.802	24905	19850	0.797	0.06	
7.002	11894	10392	0.874	0.03	
7.126	18242	11412	0.626	0.04	
7.257	10073	8752	0.869	0.02	
7.726	25564	23906	0.935	0.06	
7.801	28779	19464	0.676	0.07	
8.275	53901	43962	0.816	0.14	
8.378	21616	14371	0.665	0.05	
8.569	5214021	4558881	0.874	13.65	$ 12 Decachlorobiphenyl
8.937	21766	12334	0.567	0.05	
9.460	13149	8237	0.626	0.03	
9.565	13335	8956	0.672	0.03	
9.604	9279	8385	0.904	0.02	
9.958	12175	10153	0.834	0.03	
	38196772	33038778		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 23-MAR-2018 13:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5946632	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1273327	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1264030	0.50000	0.50	0.00- 20.00	99.27	BA
3.826	3.827	-0.001	3533471	0.50000	0.50	0.00- 20.00	277.50	BA
3.929	3.929	0.000	1514268	0.50000	0.50	0.00- 20.00	118.92	BA
3.994	3.995	-0.001	1005836	0.50000	0.49	0.00- 20.00	78.99	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5214020	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\032318.b\032318004.D

Date : 23-MAR-2018 13:25

Client ID: 1242-CCV

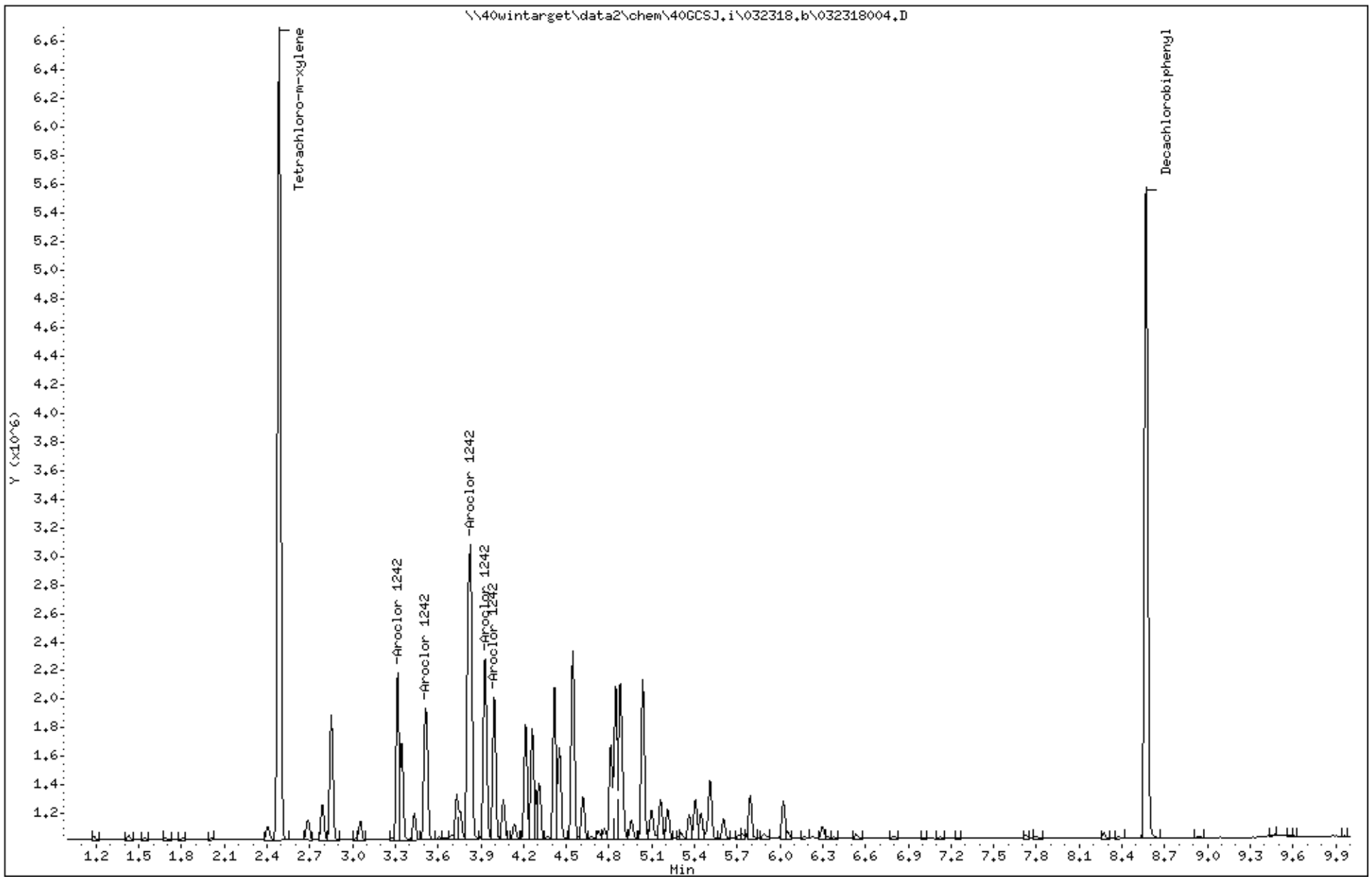
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

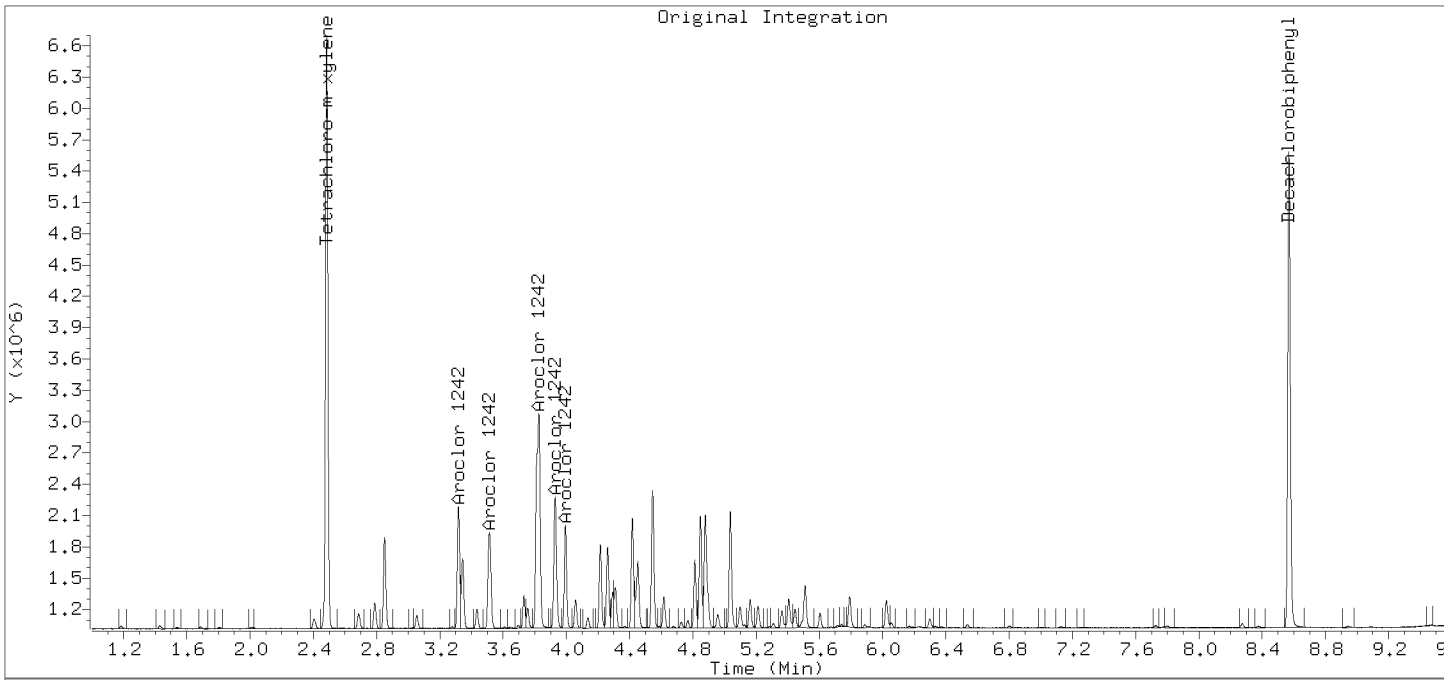
Operator: BLM

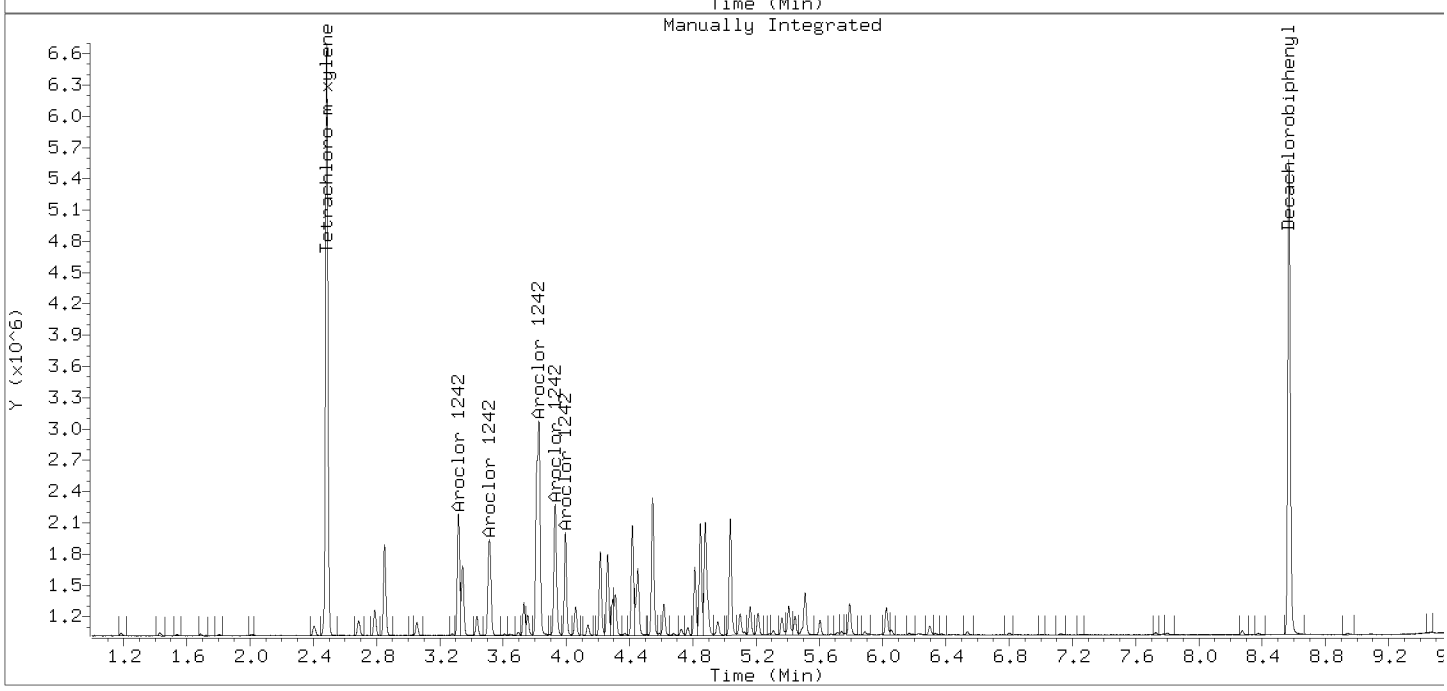
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318004.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 23-MAR-2018 13:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Tetrachloro-m-xylene	5946632	5946632	
Decachlorobiphenyl	5214020	5214020	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 23-MAR-2018 16:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	50326	40779	0.810	0.11		
1.428	39453	31471	0.798	0.08		
1.538	14952	14626	0.978	0.03		
1.687	25649	20033	0.781	0.05		
2.009	35076	25687	0.732	0.07		
2.405	23586	19253	0.816	0.05		
2.485	6135153	5890580	0.960	13.86	$ 2 Tetrachloro-m-xylene	
2.688	34003	25656	0.755	0.07		
2.786	116317	110894	0.953	0.25		
2.850	191220	176225	0.922	0.41		
3.029	16186	16721	1.033	0.03		
3.053	62260	55069	0.885	0.13		
3.317	733671	704753	0.961	1.60		
3.343	305681	291072	0.952	0.66		
3.434	66079	61276	0.927	0.14		
3.514	608255	438100	0.720	1.33		
3.608	18804	17327	0.921	0.04		
3.644	10792	7801	0.723	0.02		
3.731	141886	138962	0.979	0.31		
3.756	61805	58609	0.948	0.13		
3.812	1006734	1284453	1.276	2.20		
3.825	1449958	1326740	0.915	3.17		
3.930	929390	733704	0.789	2.03		
3.994	622483	610322	0.980	1.36		
4.058	354281	331547	0.936	0.77		
4.136	144690	131988	0.912	0.31		
4.214	1533556	1434026	0.935	3.36		
4.261	1221865	1161899	0.951	2.67	6 Aroclor 1248	BA
4.292	496343	524930	1.058	1.08		
4.309	539163	507499	0.941	1.18		
4.417	1866684	1728890	0.926	4.09		
4.451	917860	809164	0.882	2.01		
4.545	2138912	1934703	0.905	4.68	6 Aroclor 1248	BA
4.587	26872	30197	1.124	0.05		
4.616	482389	455918	0.945	1.05		
4.679	24901	21371	0.858	0.05		
4.726	63370	53851	0.850	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	109515	104259	0.952	0.23	
4.812	1080121	1045544	0.968	2.36	6 Aroclor 1248
4.848	2073001	1944696	0.938	4.54	
4.878	2650205	1788271	0.675	5.80	6 Aroclor 1248
4.956	296695	253862	0.856	0.65	
5.037	1898785	1757306	0.925	4.16	6 Aroclor 1248
5.098	652647	537384	0.823	1.43	
5.161	792098	724563	0.915	1.73	
5.211	571721	515601	0.902	1.25	
5.283	37187	39087	1.051	0.08	
5.308	120268	107854	0.897	0.26	
5.362	500101	434533	0.869	1.09	
5.406	844894	744907	0.882	1.85	
5.444	523620	446807	0.853	1.14	
5.509	1397937	1192737	0.853	3.06	
5.603	388512	355362	0.915	0.85	
5.675	46527	39809	0.856	0.10	
5.715	88403	67404	0.762	0.19	
5.738	107516	92653	0.862	0.23	
5.791	991321	822758	0.830	2.17	
5.888	127557	82307	0.645	0.27	
5.994	29675	28565	0.963	0.06	
6.023	821664	722254	0.879	1.80	
6.055	159597	127460	0.799	0.34	
6.167	92015	55214	0.600	0.20	
6.226	55309	30718	0.555	0.12	
6.297	248863	218846	0.879	0.54	
6.332	45757	39439	0.862	0.10	
6.372	39797	31450	0.790	0.08	
6.431	23211	16634	0.717	0.05	
6.509	42286	39778	0.941	0.09	
6.533	96605	71554	0.741	0.21	
6.604	17065	11842	0.694	0.03	
6.717	41198	35787	0.869	0.09	
6.761	20545	18576	0.904	0.04	
6.801	46758	42939	0.918	0.10	
6.843	23321	14401	0.618	0.05	
6.941	10271	9118	0.888	0.02	
7.002	83398	70060	0.840	0.18	
7.124	34901	16072	0.461	0.07	
7.251	26323	25072	0.952	0.05	
7.387	35570	29135	0.819	0.07	
7.440	32676	28746	0.880	0.07	
7.687	15910	14935	0.939	0.03	
7.724	31644	23919	0.756	0.06	
7.773	17352	14650	0.844	0.03	
7.800	22039	16914	0.767	0.04	
7.896	25909	23364	0.902	0.05	
8.274	67736	55460	0.819	0.14	
8.376	26097	17130	0.656	0.05	
8.569	5547528	4737784	0.854	12.15	$ 12 Decachlorobiphenyl
9.085	12188	9256	0.759	0.02	
9.462	14612	11076	0.758	0.03	
9.962	19128	12902	0.674	0.04	
	45636182	40944850		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 23-MAR-2018 16:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6135153	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1221865	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2138911	0.50000	0.52	0.00- 20.00	175.05	BA
4.811	4.812	-0.001	1080121	0.50000	0.53	0.00- 20.00	88.40	BA
4.878	4.879	-0.001	2650204	0.50000	0.53	0.00- 20.00	216.90	BA
5.036	5.038	-0.002	1898785	0.50000	0.53	0.00- 20.00	155.40	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5547527	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\032318.b\032318016.D

Date : 23-MAR-2018 16:35

Client ID: 1248-CCV

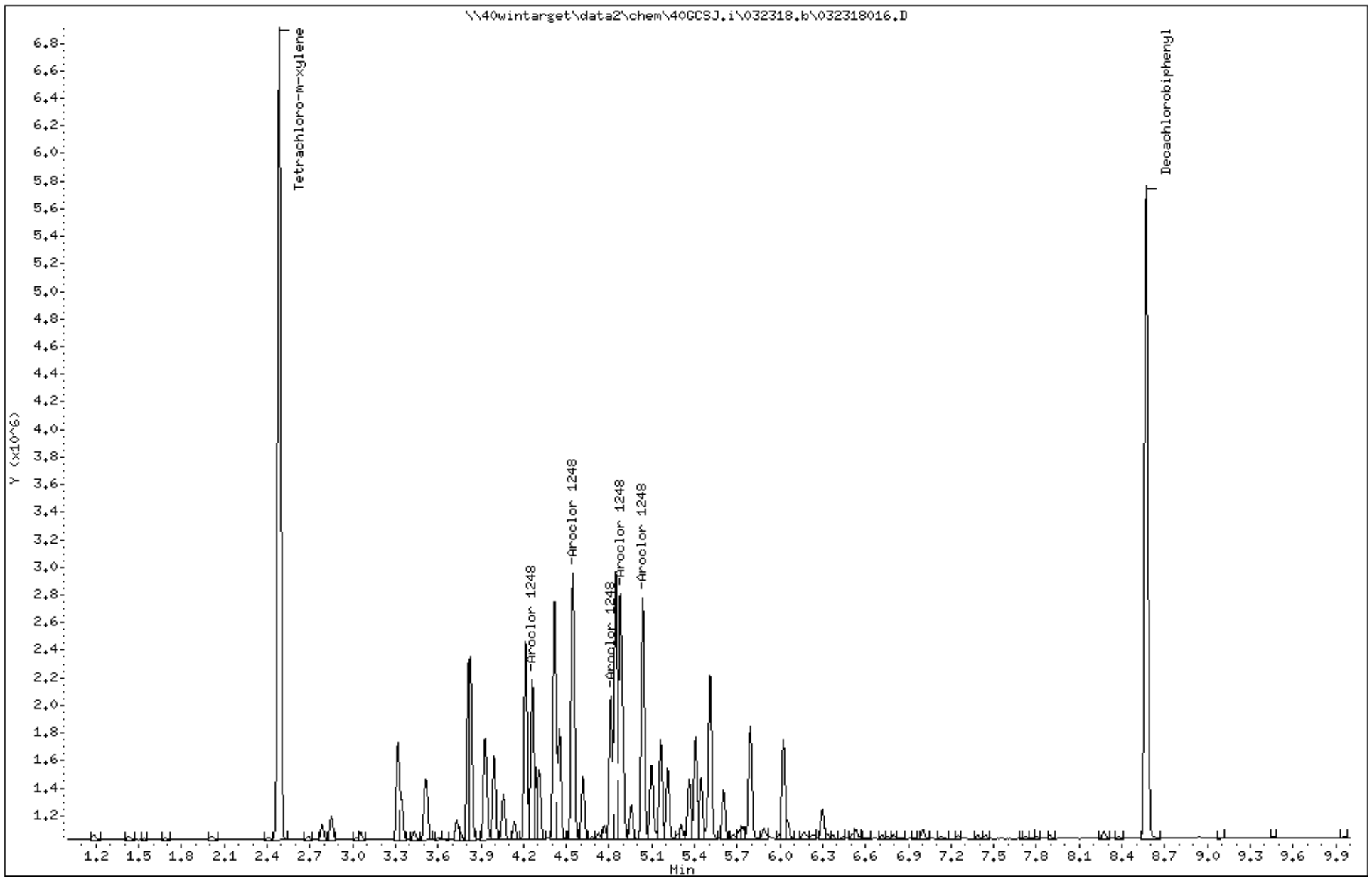
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

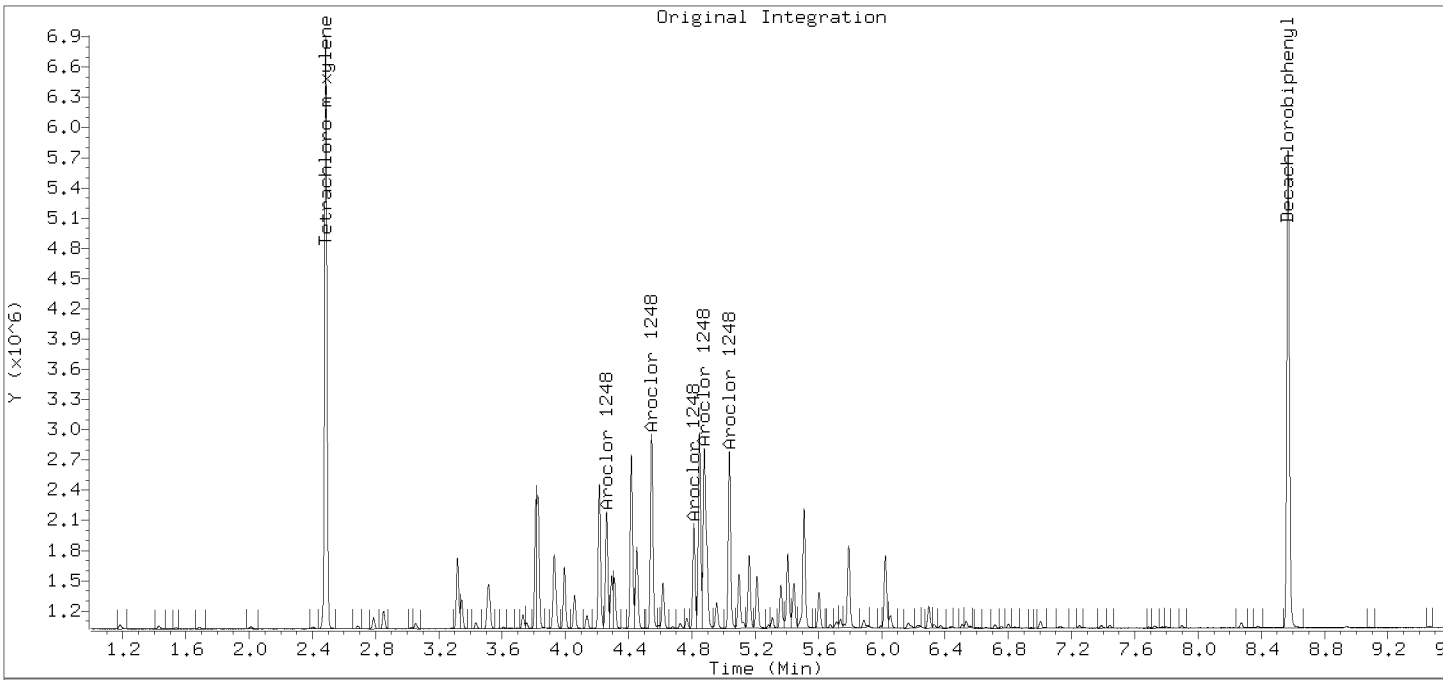
Operator: BLM

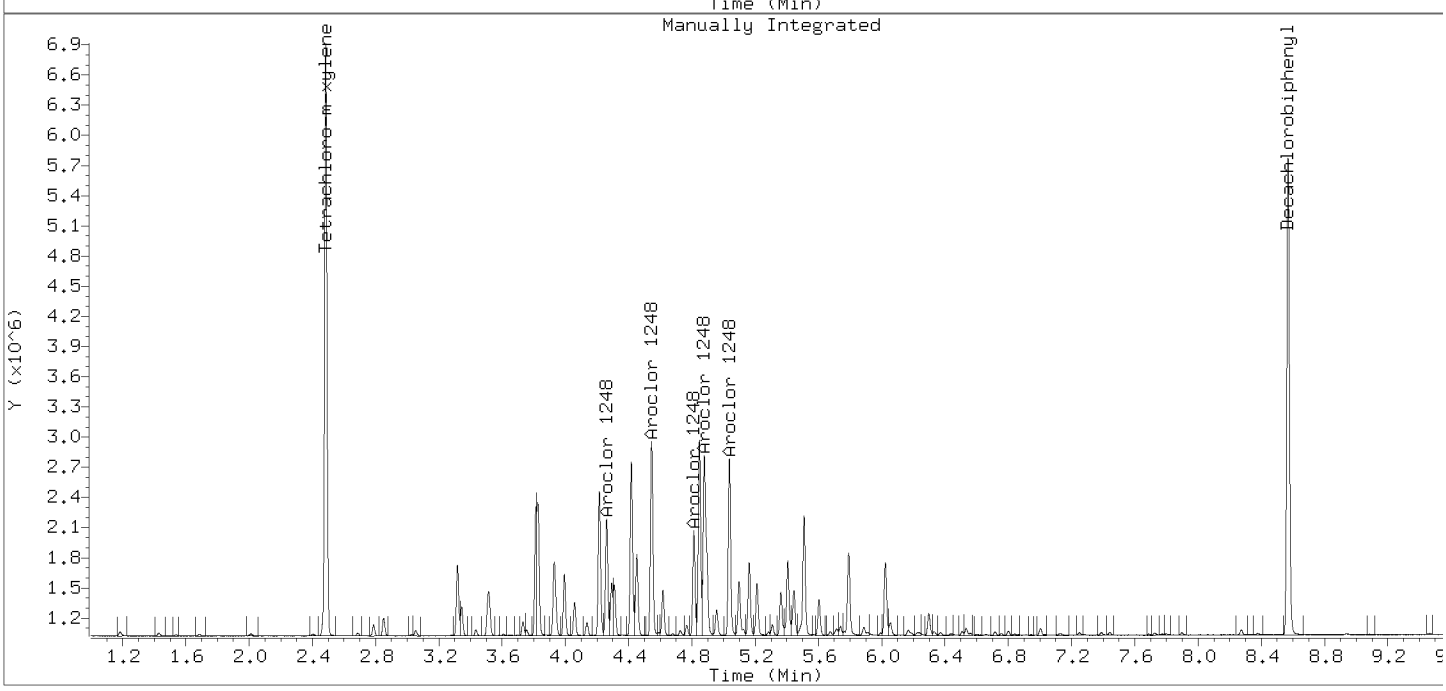
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318016.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 23-MAR-2018 16:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Tetrachloro-m-xylene	6135153	6135153	
Decachlorobiphenyl	5547527	5547527	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 27-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.187	37014	26668	0.720	0.22			
1.429	37222	27990	0.752	0.22			
1.538	19953	15050	0.754	0.11			
1.688	14231	12742	0.895	0.08			
1.805	486527	399135	0.820	2.91		1 Aroclor 1221	BA
2.014	26511	19260	0.727	0.15			
2.198	147609	123312	0.835	0.88			
2.408	256624	187397	0.730	1.53		1 Aroclor 1221	BA
2.485	5795649	5308193	0.916	35.05	$	2 Tetrachloro-m-xylene	BA
2.688	646514	524307	0.811	3.87		1 Aroclor 1221	BA
2.790	504173	469852	0.932	3.02		1 Aroclor 1221	BA
2.851	1535121	1329401	0.866	9.19		1 Aroclor 1221	BA
3.028	14392	13827	0.961	0.08			
3.054	34234	29132	0.851	0.20			
3.281	99970	77160	0.772	0.59			
3.324	358876	193551	0.539	2.15			
3.434	38238	30934	0.809	0.22			
3.512	136128	99422	0.730	0.81			
3.609	17339	14690	0.847	0.10			
3.697	13322	11447	0.859	0.07			
3.731	38936	38276	0.983	0.23			
3.755	43575	34039	0.781	0.26			
3.827	295977	177026	0.598	1.77			
3.928	143070	123162	0.861	0.85			
3.994	95620	85957	0.899	0.57			
4.053	37489	30068	0.802	0.22			
4.139	10938	8681	0.794	0.06			
4.217	34568	31358	0.907	0.20			
4.261	30622	30968	1.011	0.18			
4.295	15813	16790	1.062	0.09			
4.311	19761	17760	0.899	0.11			
4.418	39356	39192	0.996	0.23			
4.452	41924	26811	0.640	0.25			
4.546	53650	47382	0.883	0.32			
4.618	16015	13390	0.836	0.09			
4.814	20231	20464	1.012	0.12			
4.848	32628	30088	0.922	0.19			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.882	54197	35366	0.653	0.32	
5.037	34130	28155	0.825	0.20	
5.098	9508	6248	0.657	0.05	
5.162	9686	9042	0.933	0.05	
5.210	9584	7142	0.745	0.05	
5.363	10025	8319	0.830	0.06	
5.410	12662	8090	0.639	0.07	
5.508	18295	11544	0.631	0.10	
6.445	10055	8111	0.807	0.06	
7.126	34224	16900	0.494	0.20	
7.690	11411	8513	0.746	0.06	
7.727	33374	27520	0.825	0.19	
7.778	14115	12695	0.899	0.08	
7.799	35903	25073	0.698	0.21	
8.276	48149	40286	0.837	0.28	
8.373	19835	14856	0.749	0.11	
8.571	4865651	4138474	0.851	29.15	$ 12 Decachlorobiphenyl
8.940	10764	10523	0.978	0.06	
9.470	26715	17347	0.649	0.16	
9.824	15910	17592	1.106	0.09	
9.836	14219	21674	1.524	0.08	
9.858	31236	29002	0.928	0.18	
9.870	20142	33253	1.651	0.12	
9.880	109758	36905	0.336	0.65	
9.959	39510	23688	0.600	0.23	
	16688878	14281200		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 27-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: 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			
2.485	2.484	0.001	5795649	0.05000	0.047		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	486527	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	256624	0.50000	0.47	0.00- 20.00	52.75	BA
2.688	2.688	0.000	646513	0.50000	0.47	0.00- 20.00	132.88	BA
2.789	2.789	0.000	504172	0.50000	0.46	0.00- 20.00	103.63	BA
2.851	2.851	0.000	1535120	0.50000	0.47	0.00- 20.00	315.53	BA
Average of Peak Amounts =					0.46800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4865650	0.05000	0.044			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

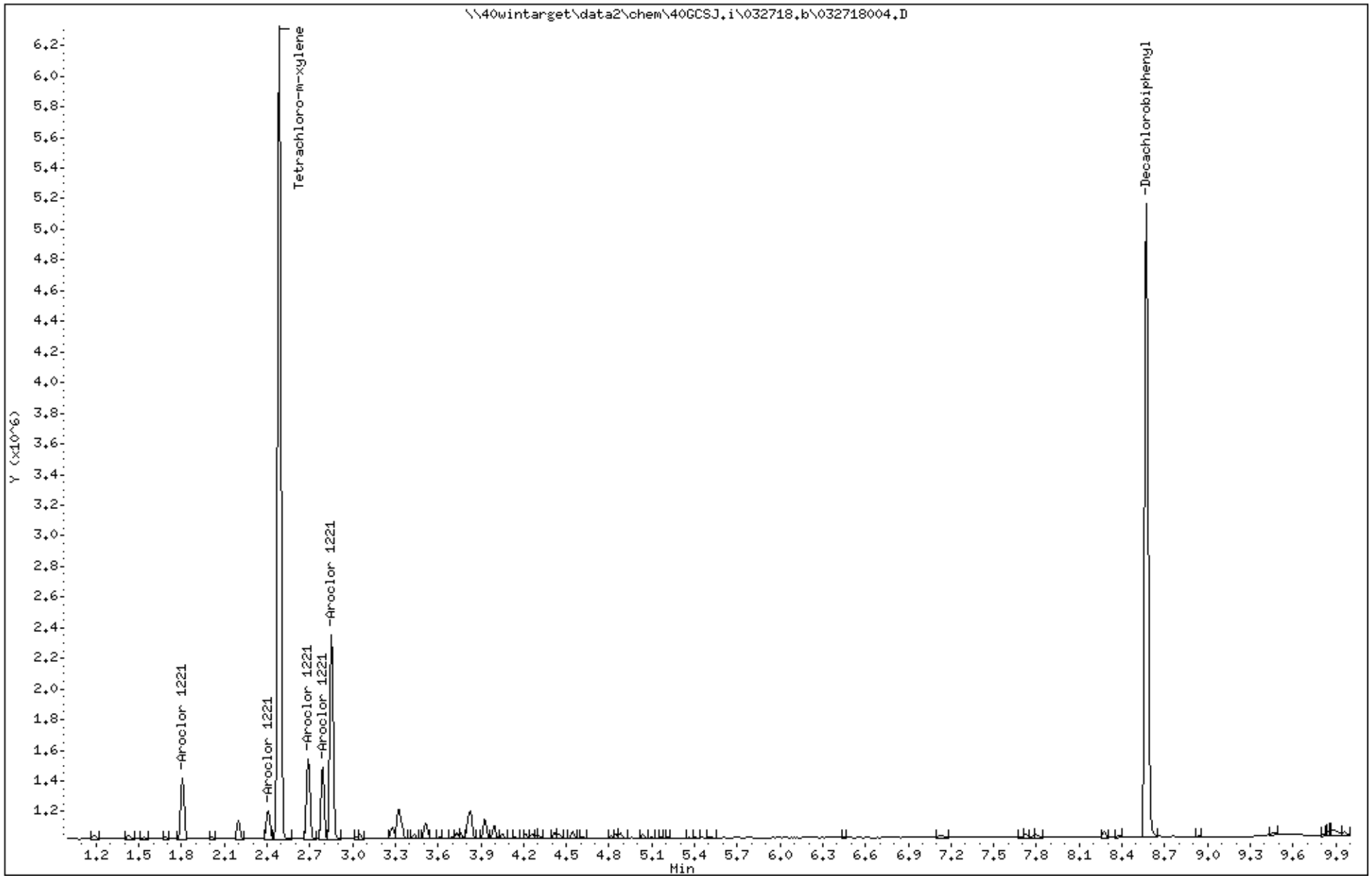
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Date : 27-MAR-2018 13:55
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSJ.i

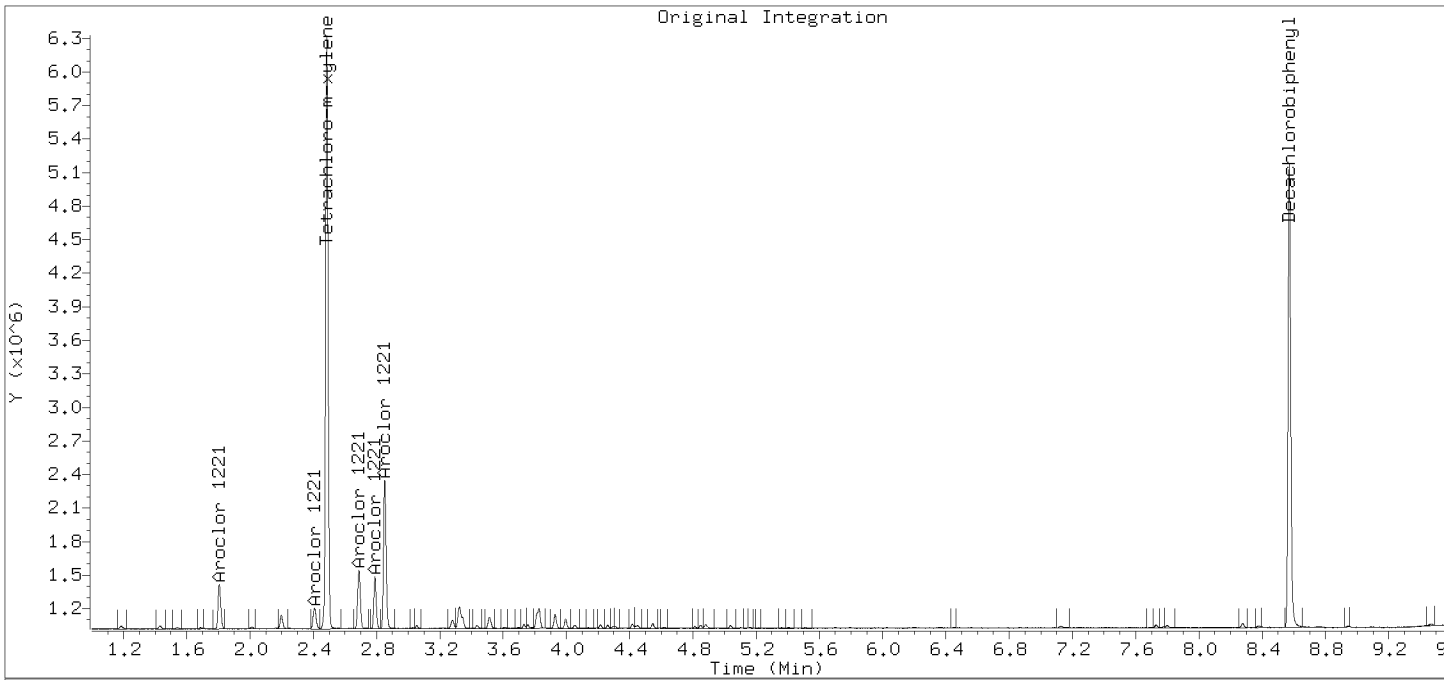
Operator: BLM

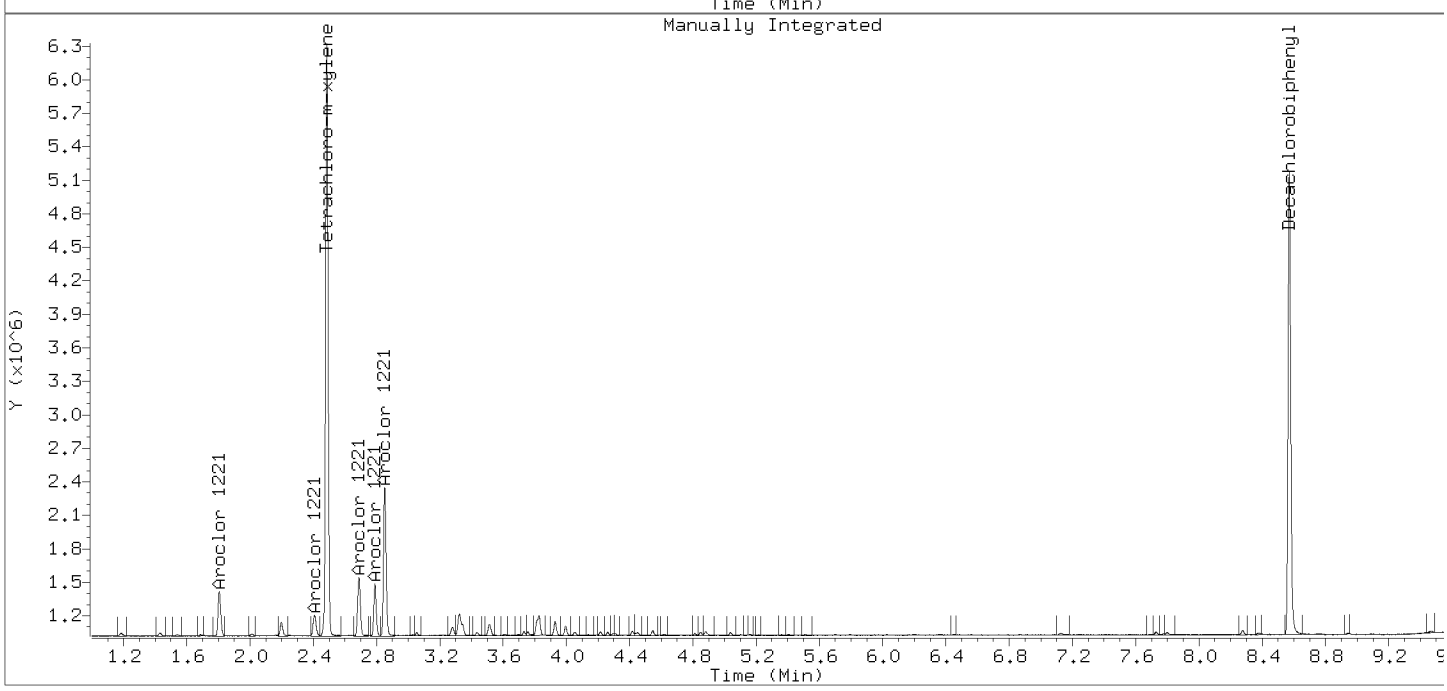
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718004.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 27-MAR-2018 13:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Tetrachloro-m-xylene	5789839	5795649	BA
Decachlorobiphenyl	4865650	4865650	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 27-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	39105	30176	0.772	0.14		
1.428	38173	32149	0.842	0.13		
1.535	21682	15589	0.719	0.07		
1.684	17136	14756	0.861	0.06		
1.804	304577	266643	0.875	1.10		
2.009	21247	17258	0.812	0.07		
2.198	90843	79788	0.878	0.32		
2.407	197054	149443	0.758	0.71		
2.484	5988579	5772885	0.964	22.03	$ 2 Tetrachloro-m-xylene	
2.687	448038	369889	0.826	1.62		
2.789	413696	385522	0.932	1.49		
2.850	1340998	1195504	0.892	4.85	4 Aroclor 1232	BA
3.028	11309	13318	1.178	0.04		
3.055	90165	77171	0.856	0.32		
3.279	73381	55919	0.762	0.26		
3.318	773131	693411	0.897	2.79		
3.343	417734	389169	0.932	1.51		
3.434	128978	110624	0.858	0.46		
3.513	700329	500772	0.715	2.53	4 Aroclor 1232	BA
3.610	21509	19334	0.899	0.07		
3.646	18175	11073	0.609	0.06		
3.696	26464	23069	0.872	0.09		
3.732	182548	182583	1.000	0.66		
3.756	148695	121321	0.816	0.53		
3.827	2011685	1164318	0.579	7.28	4 Aroclor 1232	BA
3.929	860467	709621	0.825	3.11	4 Aroclor 1232	BA
3.994	574204	540725	0.942	2.07	4 Aroclor 1232	BA
4.059	154360	139927	0.906	0.55		
4.137	64296	54496	0.848	0.23		
4.214	412730	380742	0.922	1.49		
4.260	400782	377772	0.943	1.45		
4.292	176349	176238	0.999	0.63		
4.311	217269	197416	0.909	0.78		
4.368	24937	15928	0.639	0.09		
4.417	561301	527576	0.940	2.03		
4.451	449872	316310	0.703	1.62		
4.545	718807	659934	0.918	2.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	181681	159023	0.875	0.65	
4.727	39702	33208	0.836	0.14	
4.768	43113	38633	0.896	0.15	
4.813	322621	306576	0.950	1.16	
4.847	568276	529998	0.933	2.05	
4.878	732327	543216	0.742	2.65	
4.959	82587	60821	0.736	0.29	
5.037	610841	551641	0.903	2.21	
5.099	118402	88288	0.746	0.42	
5.162	136426	116900	0.857	0.49	
5.211	92966	85091	0.915	0.33	
5.309	31895	21763	0.682	0.11	
5.363	86968	69593	0.800	0.31	
5.406	141021	124101	0.880	0.51	
5.446	89645	76343	0.852	0.32	
5.508	237459	174428	0.735	0.85	
5.602	69981	61157	0.874	0.25	
5.668	13062	12850	0.984	0.04	
5.792	162781	122928	0.755	0.58	
5.888	28119	15573	0.554	0.10	
6.024	120550	106730	0.885	0.43	
6.055	36532	29932	0.819	0.13	
6.167	17704	13183	0.745	0.06	
6.297	39906	33693	0.844	0.14	
6.716	11608	11222	0.967	0.04	
7.006	25123	22636	0.901	0.09	
7.251	17390	11900	0.684	0.06	
7.725	25417	21327	0.839	0.09	
7.776	11233	10737	0.956	0.04	
7.799	20295	18785	0.926	0.07	
7.899	12249	8715	0.711	0.04	
8.275	48550	41454	0.854	0.17	
8.376	12303	12088	0.982	0.04	
8.570	5251116	4371355	0.832	19.00	$ 12 Decachlorobiphenyl
8.939	16566	10276	0.620	0.05	
9.081	13129	7526	0.573	0.04	
9.469	17705	11060	0.625	0.06	
	27627853	23723119		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 27-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5988578	0.05000	0.048			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1340997	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	700329	0.50000	0.52	0.00- 20.00	52.22	BA
3.826	3.827	-0.001	2011685	0.50000	0.54	0.00- 20.00	150.01	BA
3.928	3.929	-0.001	860466	0.50000	0.54	0.00- 20.00	64.17	BA
3.994	3.995	-0.001	574204	0.50000	0.52	0.00- 20.00	42.82	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5251116	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\032718.b\032718016.D

Date : 27-MAR-2018 17:05

Client ID: 1232-CCV

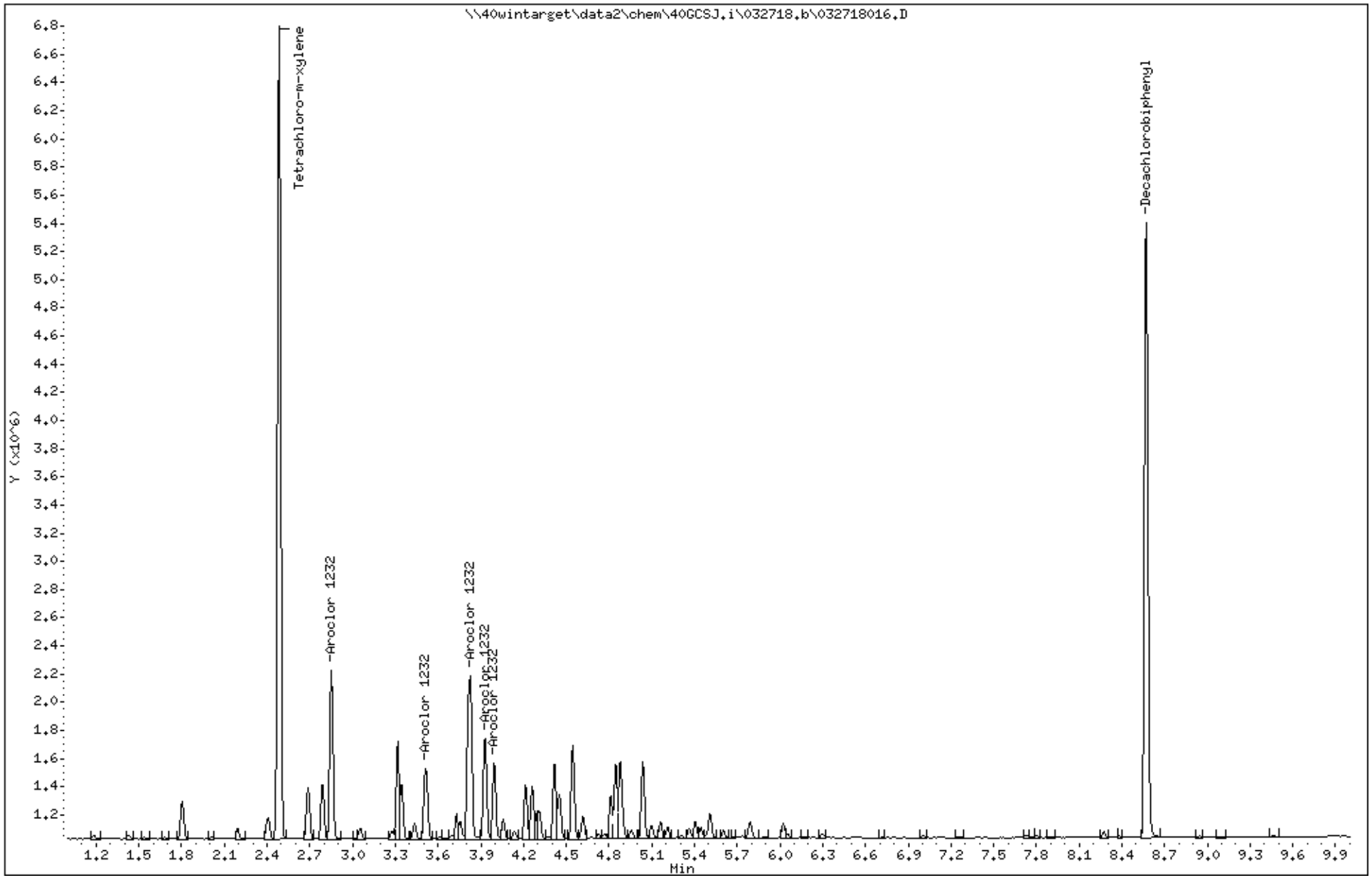
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

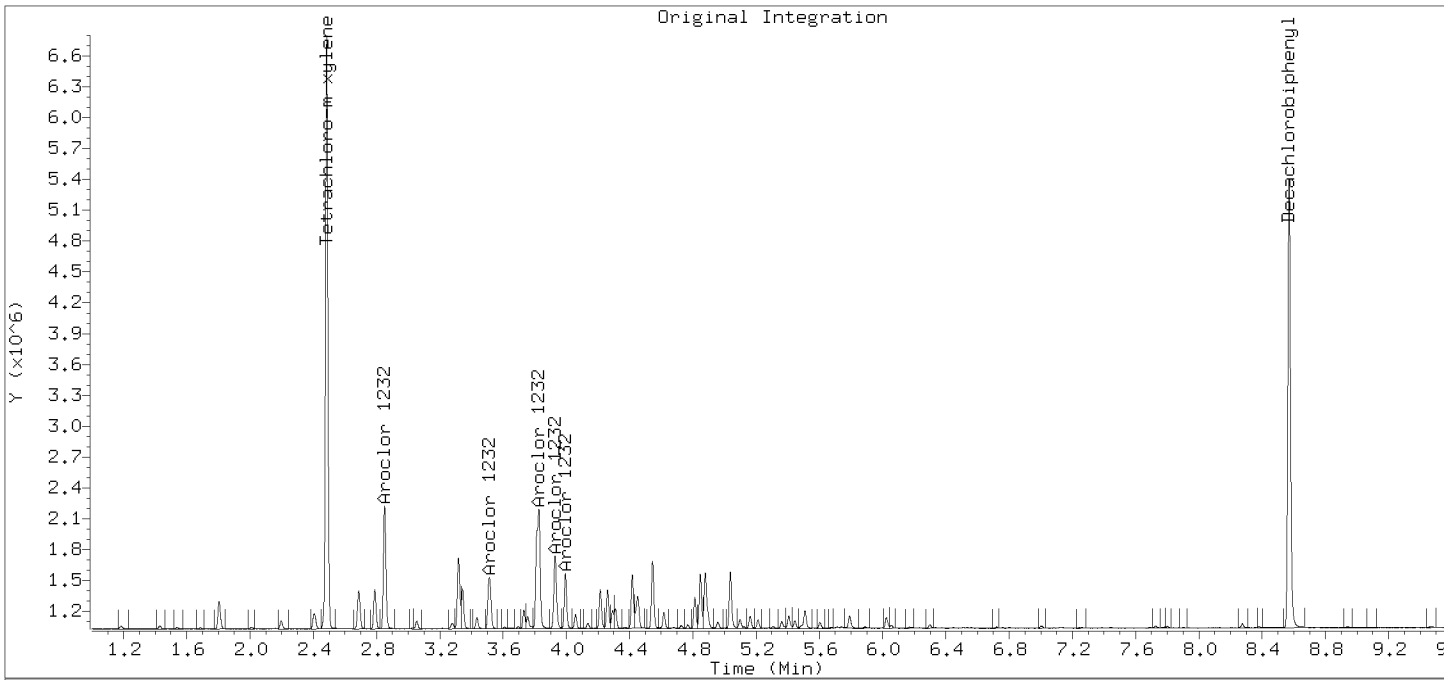
Operator: BLM

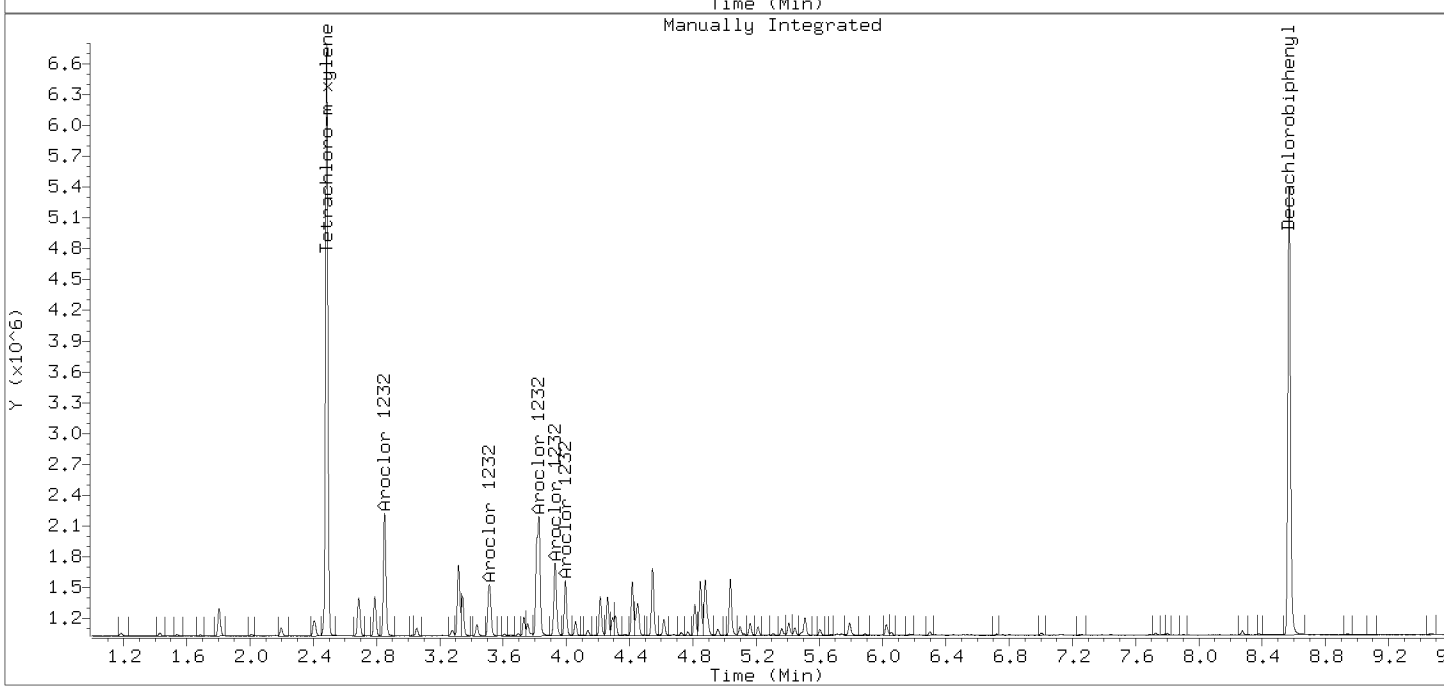
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718016.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 27-MAR-2018 17:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Tetrachloro-m-xylene	5988578	5988578	
Decachlorobiphenyl	5251116	5251116	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718028.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 27-MAR-2018 20:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	22116	19128	0.865	0.05		
1.430	36347	30805	0.848	0.09		
1.533	15832	13852	0.875	0.03		
1.688	30426	28483	0.936	0.07		
1.801	19124	14345	0.750	0.04		
2.403	122922	93920	0.764	0.30		
2.485	6045235	5727484	0.947	15.66	$ 2 Tetrachloro-m-xylene	
2.687	181314	145710	0.804	0.45		
2.788	278948	257409	0.923	0.70		
2.850	969999	897218	0.925	2.44		
3.055	143956	130670	0.908	0.36		
3.279	23236	16833	0.724	0.05		
3.317	1305426	1219738	0.934	3.28	3 Aroclor 1242	BA
3.344	742311	704929	0.950	1.86		
3.434	208477	188843	0.906	0.52		
3.514	1289639	943262	0.731	3.24	3 Aroclor 1242	BA
3.610	21298	19297	0.906	0.05		
3.647	21829	15548	0.712	0.05		
3.694	37154	35024	0.943	0.09		
3.731	330109	320781	0.972	0.83		
3.755	221466	211702	0.956	0.55		
3.826	3694404	2119282	0.574	9.30	3 Aroclor 1242	BA
3.929	1583243	1328111	0.839	3.98	3 Aroclor 1242	BA
3.994	1052494	1001265	0.951	2.65	3 Aroclor 1242	BA
4.057	319475	283508	0.887	0.80		
4.135	120986	107562	0.889	0.30		
4.214	869317	820541	0.944	2.18		
4.260	839732	805808	0.960	2.11		
4.292	353678	356274	1.007	0.89		
4.310	440452	413089	0.938	1.10		
4.372	26207	20261	0.773	0.06		
4.417	1153897	1081083	0.937	2.90		
4.451	910533	659737	0.725	2.29		
4.545	1494234	1371200	0.918	3.76		
4.589	19012	21237	1.117	0.04		
4.617	343739	316027	0.919	0.86		
4.674	25481	18948	0.744	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	73129	64209	0.878	0.18	
4.768	82873	76521	0.923	0.20	
4.812	705688	697663	0.989	1.77	
4.848	1218924	1126716	0.924	3.06	
4.879	1550913	1184991	0.764	3.90	
4.957	171628	137268	0.800	0.43	
5.036	1297039	1206088	0.930	3.26	
5.098	274834	212364	0.773	0.69	
5.162	320063	282287	0.882	0.80	
5.212	244797	219103	0.895	0.61	
5.283	18910	18363	0.971	0.04	
5.307	57364	47940	0.836	0.14	
5.362	212837	180911	0.850	0.53	
5.406	353167	295588	0.837	0.88	
5.445	225499	191903	0.851	0.56	
5.509	573345	435586	0.760	1.44	
5.603	178100	144424	0.811	0.44	
5.713	38227	27582	0.722	0.09	
5.741	46088	41858	0.908	0.11	
5.790	419932	323443	0.770	1.05	
5.888	61769	37654	0.610	0.15	
5.997	12966	12941	0.998	0.03	
6.024	337459	288403	0.855	0.84	
6.055	67483	54133	0.802	0.16	
6.166	24860	22346	0.899	0.06	
6.225	30573	17138	0.561	0.07	
6.297	110529	92300	0.835	0.27	
6.333	27581	23018	0.835	0.06	
6.374	17409	17314	0.995	0.04	
6.535	40893	34152	0.835	0.10	
6.800	28695	24586	0.857	0.07	
7.007	15361	12456	0.811	0.03	
7.125	14288	11437	0.800	0.03	
7.251	10908	8813	0.808	0.02	
7.683	9419	6362	0.675	0.02	
7.727	27188	22778	0.838	0.06	
7.800	19157	17822	0.930	0.04	
8.274	58053	44040	0.759	0.14	
8.377	17876	11671	0.653	0.04	
8.569	5402413	4583574	0.848	13.60	$ 12 Decachlorobiphenyl
	39712286	34016660		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718028.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 27-MAR-2018 20:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	6045234	0.05000	0.049			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1305426	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1289639	0.50000	0.51	0.00- 20.00	98.79	BA
3.825	3.827	-0.002	3694404	0.50000	0.52	0.00- 20.00	283.00	BA
3.928	3.929	-0.001	1583243	0.50000	0.52	0.00- 20.00	121.28	BA
3.994	3.995	-0.001	1052494	0.50000	0.51	0.00- 20.00	80.62	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5402413	0.05000	0.049			

QC Flag Legend

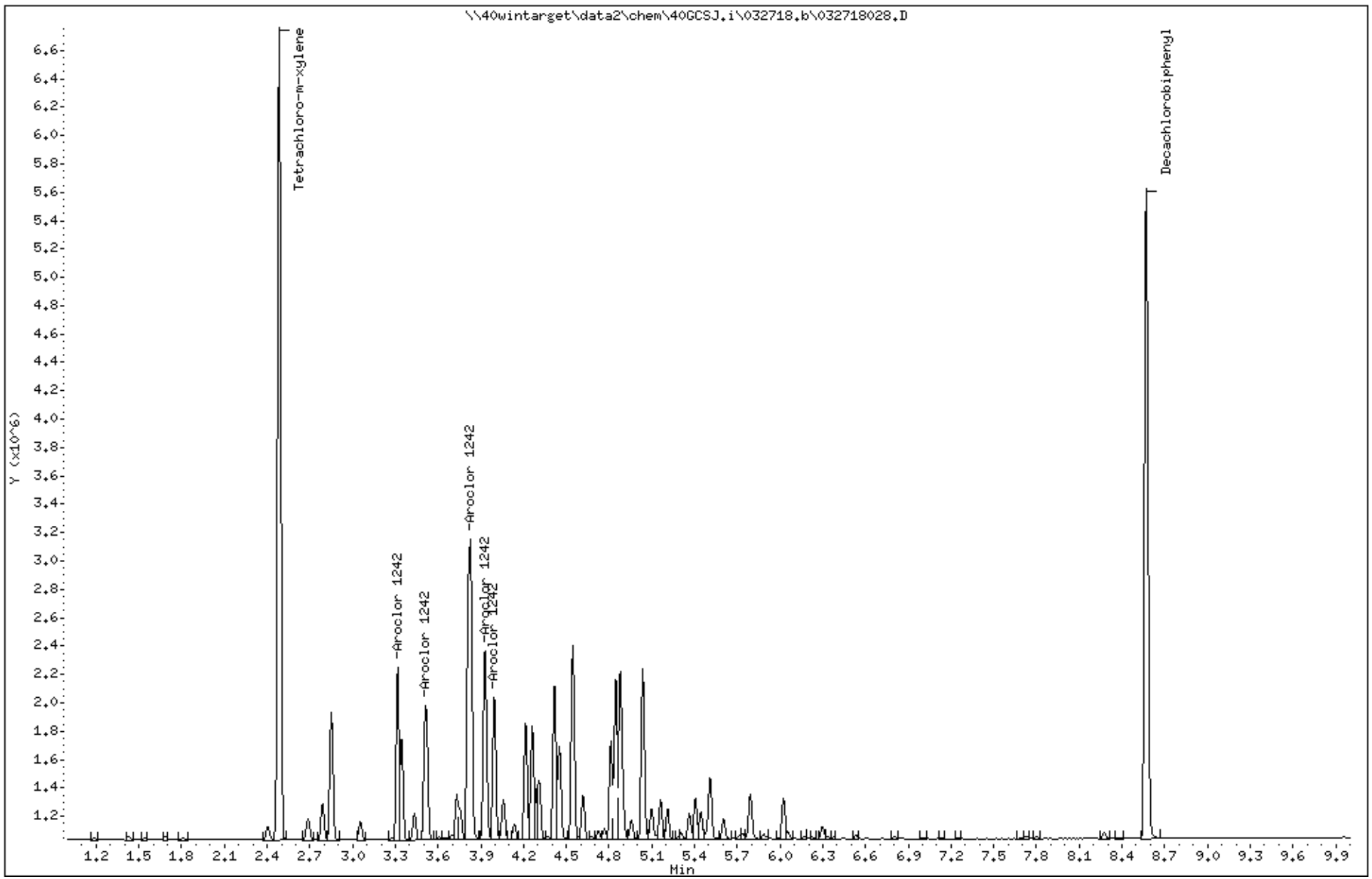
M - Compound response manually integrated.

Review Codes Legend

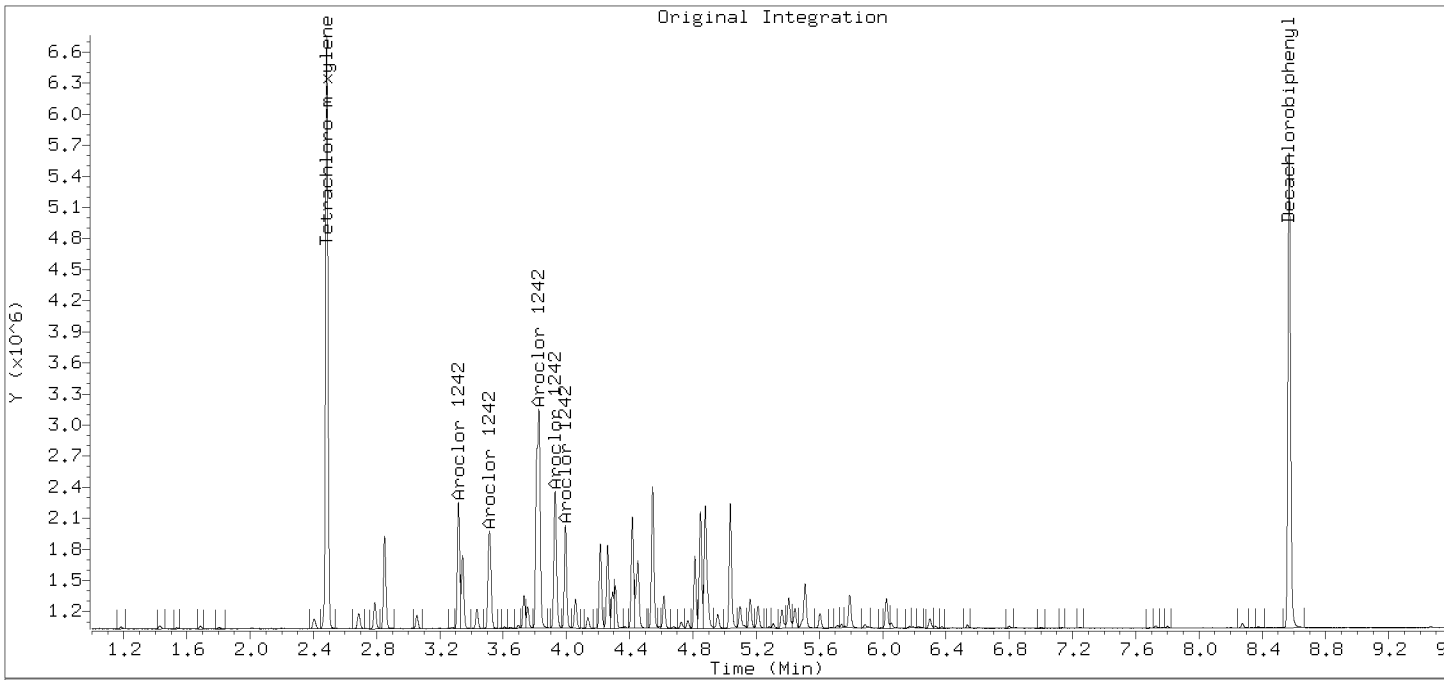
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

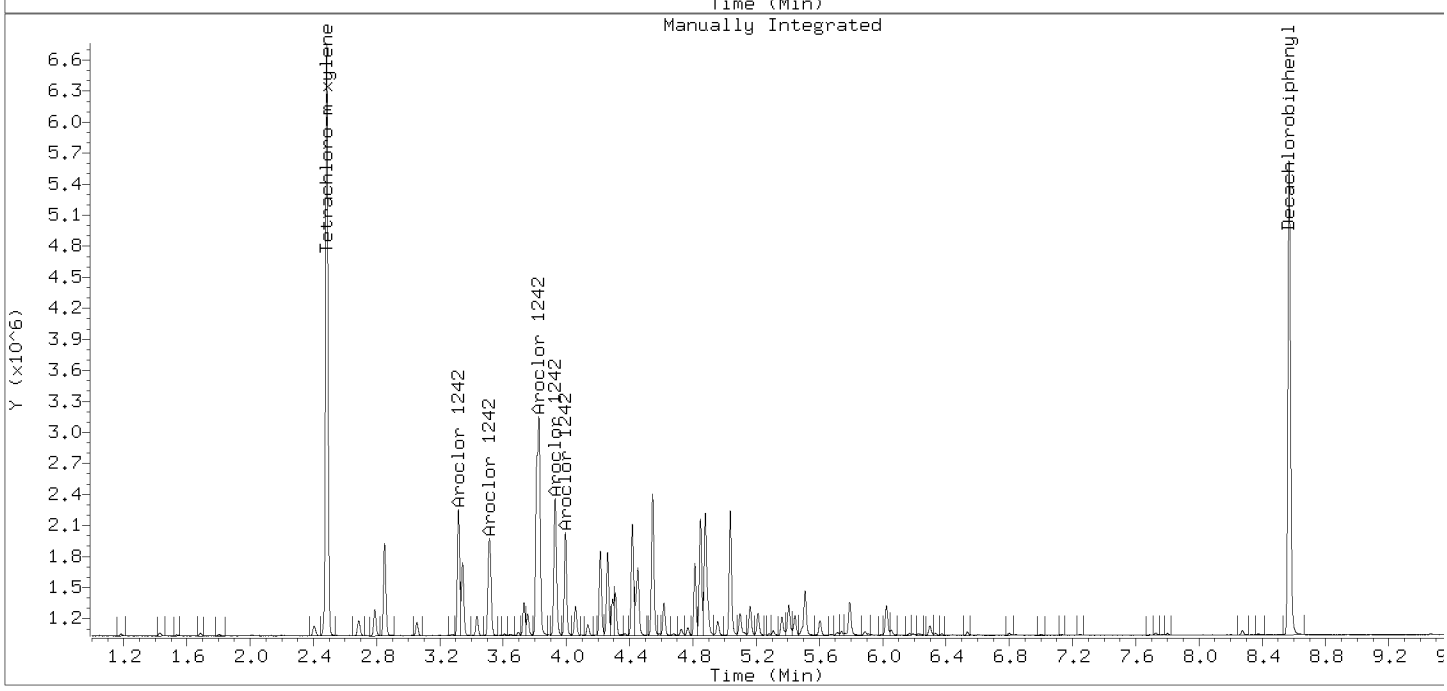
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718028.D
Date : 27-MAR-2018 20:15
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718028.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 27-MAR-2018 20:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Tetrachloro-m-xylene	6045234	6045234	
Decachlorobiphenyl	5402413	5402413	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 28-MAR-2018 14:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 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: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	34287	24870	0.725	0.06		
1.429	43370	30622	0.706	0.08		
1.538	20099	14065	0.700	0.03		
1.687	34243	28918	0.844	0.06		
2.008	22340	15888	0.711	0.04		
2.485	5986478	5564957	0.930	11.86	$ 2 Tetrachloro-m-xylene	
2.787	86745	81305	0.937	0.16		
2.853	19435	17303	0.890	0.03		
3.030	9498	11608	1.222	0.01		
3.051	19068	18093	0.949	0.03		
3.317	33265	29468	0.886	0.06		
3.346	27060	18432	0.681	0.05		
3.514	36728	24645	0.671	0.06		
3.608	18572	17393	0.937	0.03		
3.813	98773	56799	0.575	0.18		
3.934	63882	43155	0.676	0.12		
3.996	37044	29645	0.800	0.07		
4.054	30813	23935	0.777	0.05		
4.134	9311	8762	0.941	0.01		
4.215	1225168	1129005	0.922	2.32		
4.262	338836	322290	0.951	0.64		
4.293	73364	49673	0.677	0.13		
4.417	746529	716586	0.960	1.41		
4.453	73020	70190	0.961	0.13		
4.545	337813	318874	0.944	0.64		
4.588	13636	15720	1.153	0.02		
4.619	59572	55237	0.927	0.11		
4.683	16162	15741	0.974	0.03		
4.768	19602	19899	1.015	0.03		
4.813	279707	267318	0.956	0.53		
4.848	1075158	1008417	0.938	2.04		
4.894	2401051	1902748	0.792	4.56		
4.957	396126	343679	0.868	0.75		
5.038	232524	211719	0.911	0.44		
5.099	1410312	1220394	0.865	2.68		
5.163	2562142	2359787	0.921	4.87	7 Aroclor 1254	BA
5.213	1183874	1063969	0.899	2.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.283	64362	59384	0.923	0.12	
5.309	214189	198290	0.926	0.40	
5.363	1021441	946112	0.926	1.94	
5.407	2127920	1856095	0.872	4.04	7 Aroclor 1254
5.446	732166	667014	0.911	1.39	
5.478	269581	259061	0.961	0.51	
5.510	3806371	3350789	0.880	7.23	7 Aroclor 1254
5.578	35670	33568	0.941	0.06	
5.605	539855	477208	0.884	1.02	
5.675	349872	322991	0.923	0.66	
5.711	527149	348569	0.661	1.00	
5.742	336284	272779	0.811	0.63	
5.790	3816058	2929635	0.768	7.25	
5.883	346537	265559	0.766	0.65	
5.928	183760	116406	0.633	0.34	
5.993	323102	301812	0.934	0.61	
6.026	2359099	2009027	0.852	4.48	7 Aroclor 1254
6.056	1777584	1459574	0.821	3.38	
6.168	698367	591406	0.847	1.32	
6.229	280454	282615	1.008	0.53	
6.240	322805	275490	0.853	0.61	
6.300	3187981	2664330	0.836	6.06	7 Aroclor 1254
6.333	581245	511127	0.879	1.10	
6.373	333781	285020	0.854	0.63	
6.440	92542	52569	0.568	0.17	
6.485	14854	18006	1.212	0.02	
6.511	127692	124240	0.973	0.24	
6.537	1086431	825577	0.760	2.06	
6.604	160164	127459	0.796	0.30	
6.662	31281	27406	0.876	0.05	
6.719	220717	189496	0.859	0.41	
6.760	130601	114459	0.876	0.24	
6.802	599073	511580	0.854	1.13	
6.843	172075	107423	0.624	0.32	
6.944	58205	51305	0.881	0.11	
7.005	440272	366637	0.833	0.83	
7.074	21878	18758	0.857	0.04	
7.125	34239	17818	0.520	0.06	
7.252	348633	301052	0.864	0.66	
7.279	82002	63923	0.780	0.15	
7.386	17142	13502	0.788	0.03	
7.442	26995	22666	0.840	0.05	
7.553	34242	18871	0.551	0.06	
7.689	18612	16303	0.876	0.03	
7.729	34281	25817	0.753	0.06	
7.779	14008	12620	0.901	0.02	
7.802	32343	21942	0.678	0.06	
7.902	24455	19659	0.804	0.04	
8.277	54431	45311	0.832	0.10	
8.377	17795	14042	0.789	0.03	
8.572	5310341	4596878	0.866	10.09	$ 12 Decachlorobiphenyl
8.943	15180	13152	0.866	0.02	
9.467	40693	18552	0.456	0.07	
9.876	12674	9294	0.733	0.02	
	52585090	45401287		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 28-MAR-2018 14:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 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: 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	5986477	0.05000	0.048			
7 Aroclor 1254						CAS #: 11097-69-1		
5.162	5.162	0.000	2562141	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2127920	0.50000	0.49	0.00- 20.00	83.05	BA
5.510	5.510	0.000	3806370	0.50000	0.49	0.00- 20.00	148.56	BA
6.026	6.027	-0.001	2359098	0.50000	0.48	0.00- 20.00	92.08	BA
6.299	6.299	0.000	3187980	0.50000	0.49	0.00- 20.00	124.43	BA
Average of Peak Amounts =					0.48800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5310340	0.05000	0.048			

QC Flag Legend

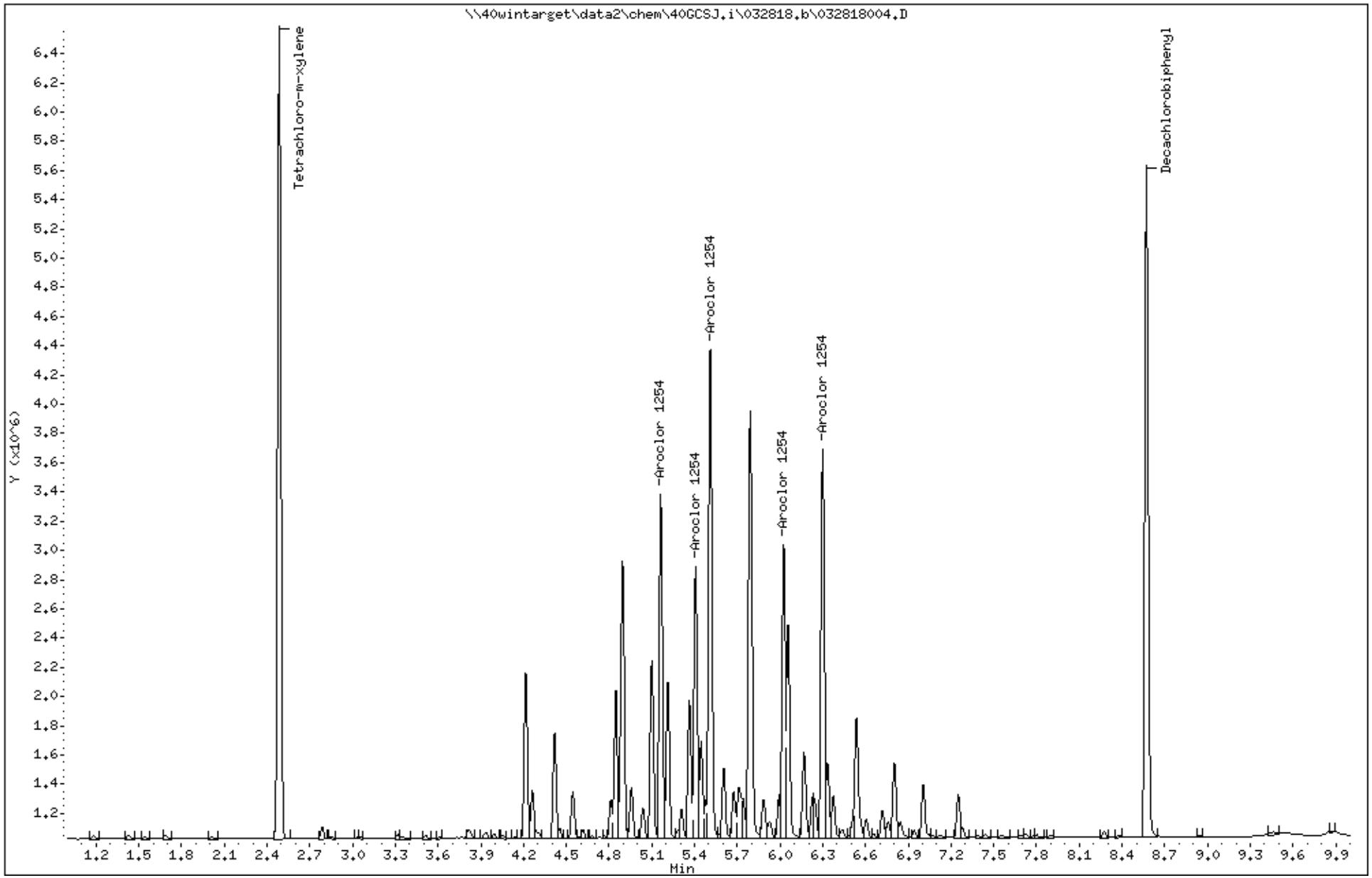
M - Compound response manually integrated.

Review Codes Legend

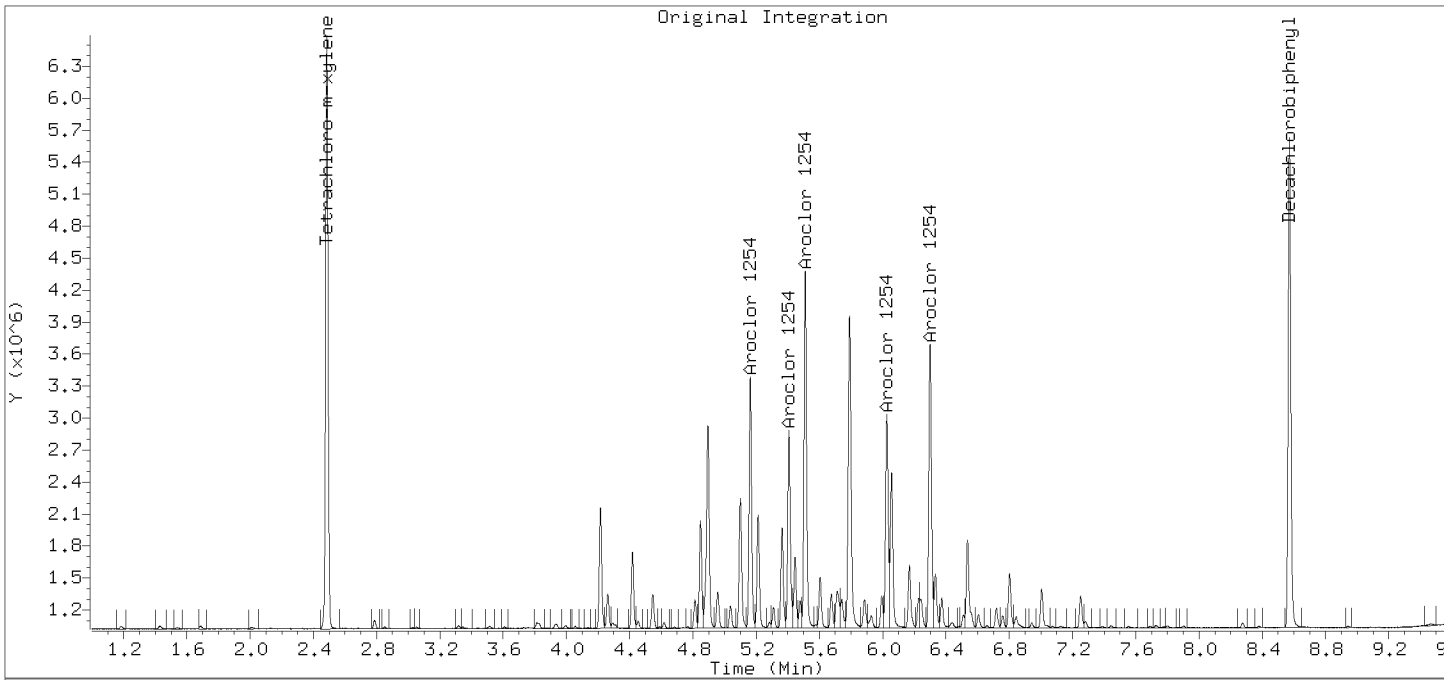
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

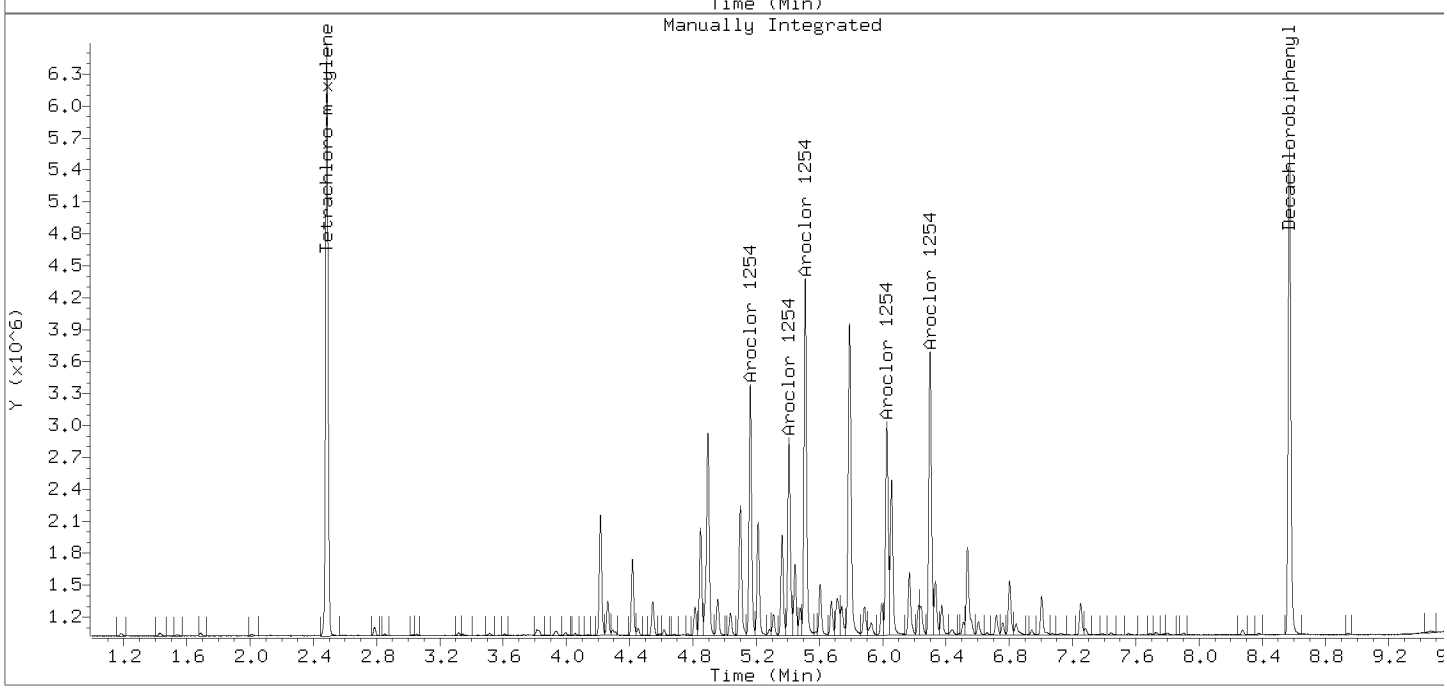
Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818004.D
Date : 28-MAR-2018 14:08
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818004.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 28-MAR-2018 14:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Tetrachloro-m-xylene	5986477	5986477	
Decachlorobiphenyl	5310340	5310340	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 28-MAR-2018 17:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 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: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	29523	23406	0.793	0.03		
1.431	42897	30026	0.700	0.04		
1.537	17831	13600	0.763	0.02		
1.688	48661	35952	0.739	0.05		
1.807	15587	14584	0.936	0.01		
2.012	30566	18541	0.607	0.03		
2.405	141910	107853	0.760	0.16		
2.485	6137942	5556103	0.905	7.55	$ 2 Tetrachloro-m-xylene	
2.687	208836	162642	0.779	0.24		
2.789	315704	280402	0.888	0.36		
2.851	1148333	1027563	0.895	1.32		
3.030	9411	12955	1.377	0.01		
3.055	172133	151373	0.879	0.19		
3.279	26793	20870	0.779	0.03		
3.318	1549727	1408674	0.909	1.78	5 Aroclor 1016	BA
3.344	906717	824850	0.910	1.04		
3.434	250136	220649	0.882	0.28		
3.514	1558975	1106612	0.710	1.80	5 Aroclor 1016	BA
3.608	26281	18884	0.719	0.03		
3.649	24718	16536	0.669	0.02		
3.698	44188	43420	0.983	0.05		
3.732	395173	397244	1.005	0.45		
3.757	265392	246478	0.929	0.30		
3.826	4472301	2572556	0.575	5.16	5 Aroclor 1016	BA
3.929	1909822	1573034	0.824	2.20	5 Aroclor 1016	BA
3.994	1290285	1214673	0.941	1.48	5 Aroclor 1016	BA
4.058	364578	333593	0.915	0.42		
4.136	146504	129896	0.887	0.16		
4.215	1118228	1044725	0.934	1.29		
4.261	1007081	962590	0.956	1.16		
4.293	432699	425922	0.984	0.49		
4.310	515806	496547	0.963	0.59		
4.370	35108	23731	0.676	0.04		
4.417	1394189	1249562	0.896	1.60		
4.452	1036163	800665	0.773	1.19		
4.546	1769739	1564553	0.884	2.04		
4.587	21868	24348	1.113	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	403123	365763	0.907	0.46	
4.679	26311	21712	0.825	0.03	
4.727	64209	54326	0.846	0.07	
4.769	58270	53480	0.918	0.06	
4.813	322453	304789	0.945	0.37	
4.848	510057	472757	0.927	0.58	
4.895	1614151	1201052	0.744	1.86	
4.957	105638	83751	0.793	0.12	
5.038	93291	82068	0.880	0.10	
5.100	339843	286587	0.843	0.39	
5.162	1337759	1190569	0.890	1.54	
5.212	57419	49707	0.866	0.06	
5.307	16264	13922	0.856	0.01	
5.364	90408	79794	0.883	0.10	
5.406	383618	338322	0.882	0.44	
5.477	531326	505234	0.951	0.61	
5.509	926640	815497	0.880	1.07	
5.602	16992	16022	0.943	0.01	
5.674	1360252	1256390	0.924	1.57	
5.709	973191	545415	0.560	1.12	
5.786	3349523	2880935	0.860	3.86	
5.883	228582	204561	0.895	0.26	
5.929	109126	90606	0.830	0.12	
5.994	565853	532416	0.941	0.65	
6.029	1271674	1232651	0.969	1.46	
6.055	3723861	3152158	0.846	4.30	
6.169	2402554	1514243	0.630	2.77	
6.256	546313	321177	0.588	0.63	
6.301	4486284	3585244	0.799	5.18	8 Aroclor 1260
6.333	659390	574547	0.871	0.76	
6.373	164436	129390	0.787	0.18	
6.431	467986	389690	0.833	0.54	
6.486	99252	125206	1.261	0.11	
6.509	2209311	1932501	0.875	2.55	
6.533	417864	449264	1.075	0.48	
6.560	1381259	1207839	0.874	1.59	
6.604	149175	119047	0.798	0.17	
6.661	429048	381018	0.888	0.49	
6.717	2360016	2084976	0.883	2.72	
6.758	1336418	1148450	0.859	1.54	
6.803	1092118	951782	0.872	1.26	
6.839	207066	175217	0.846	0.23	
6.865	104523	87778	0.840	0.12	
6.913	150324	139228	0.926	0.17	
6.942	467308	421408	0.902	0.53	
7.004	5106058	4410814	0.864	5.89	8 Aroclor 1260
7.035	348274	340222	0.977	0.40	
7.076	163426	125970	0.771	0.18	
7.121	231990	191205	0.824	0.26	
7.251	2450903	2133644	0.871	2.83	8 Aroclor 1260
7.281	701551	589954	0.841	0.81	
7.388	1241443	1053312	0.848	1.43	
7.443	1503797	1278915	0.850	1.73	8 Aroclor 1260
7.552	106981	83567	0.781	0.12	
7.689	602333	527633	0.876	0.69	
7.727	96201	78485	0.816	0.11	
7.801	75459	58299	0.773	0.08	

Data File: ...wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D Page 3
Report Date: 04-Apr-2018 13:07

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.900	1353891	1128293	0.833	1.56	8 Aroclor 1260
7.965	107694	77587	0.720	0.12	
8.275	359405	304308	0.847	0.41	
8.378	24291	14407	0.593	0.02	
8.571	5593526	4754791	0.850	6.45	$ 12 Decachlorobiphenyl
8.943	19569	11930	0.610	0.02	
9.963	17620	11294	0.641	0.02	
	86596697	72898731		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 28-MAR-2018 17:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 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: 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	6137942	0.05000	0.050			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1549727	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1558975	0.50000	0.50	0.00- 20.00	100.60	BA
3.825	3.826	-0.001	4472301	0.50000	0.50	0.00- 20.00	288.59	BA
3.929	3.929	0.000	1909821	0.50000	0.50	0.00- 20.00	123.24	BA
3.994	3.994	0.000	1290285	0.50000	0.50	0.00- 20.00	83.26	BA
Average of Peak Amounts =					0.50000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4486284	0.50000	0.51	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	5106058	0.50000	0.51	0.00- 20.00	113.81	CO
7.250	7.251	-0.001	2450903	0.50000	0.51	0.00- 20.00	54.63	CO
7.442	7.443	-0.001	1503796	0.50000	0.52	0.00- 20.00	33.52	CO
7.899	7.901	-0.002	1353891	0.50000	0.51	0.00- 20.00	30.18	CO
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5593526	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

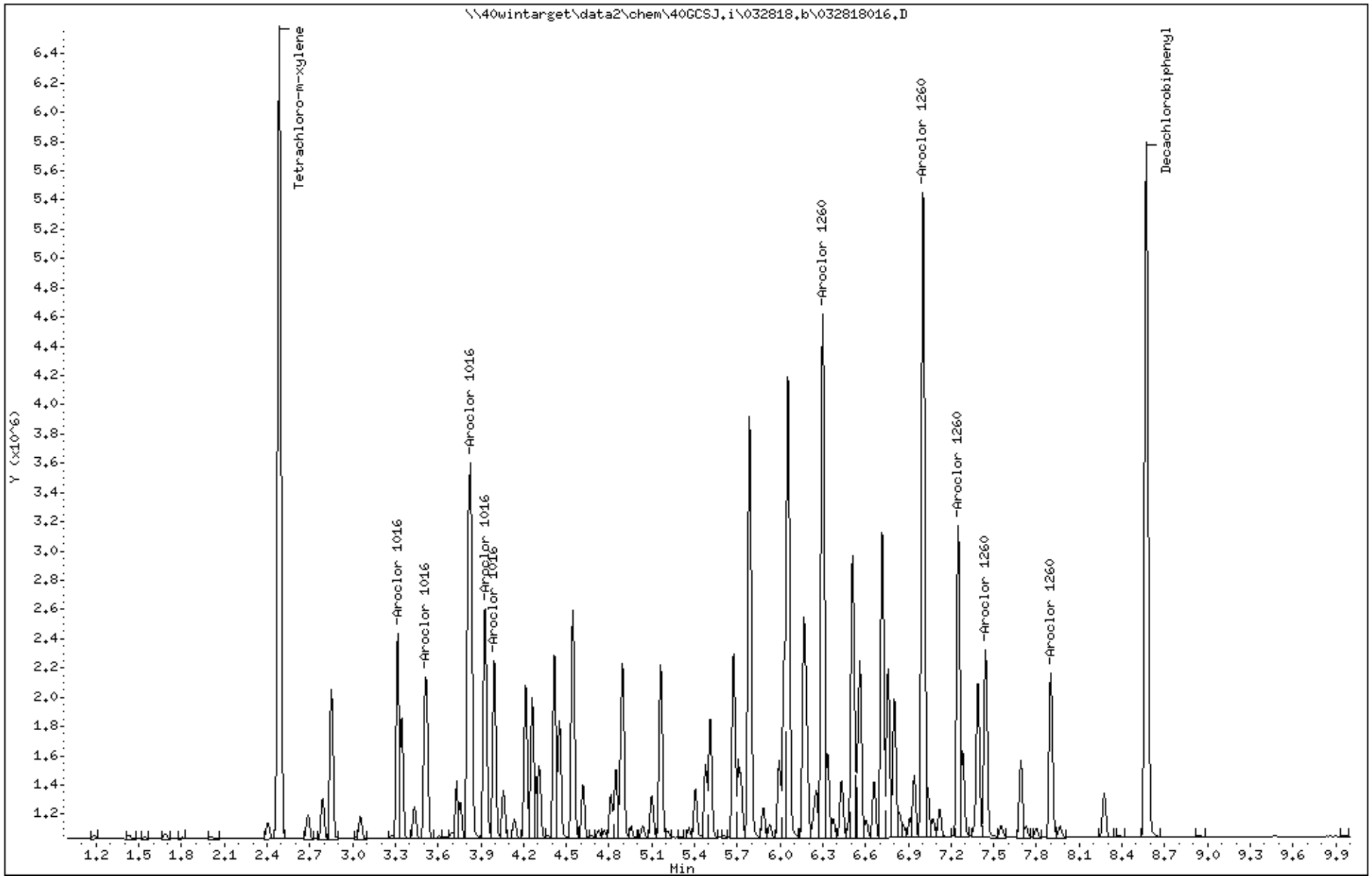
QC Flag Legend

Review Codes Legend

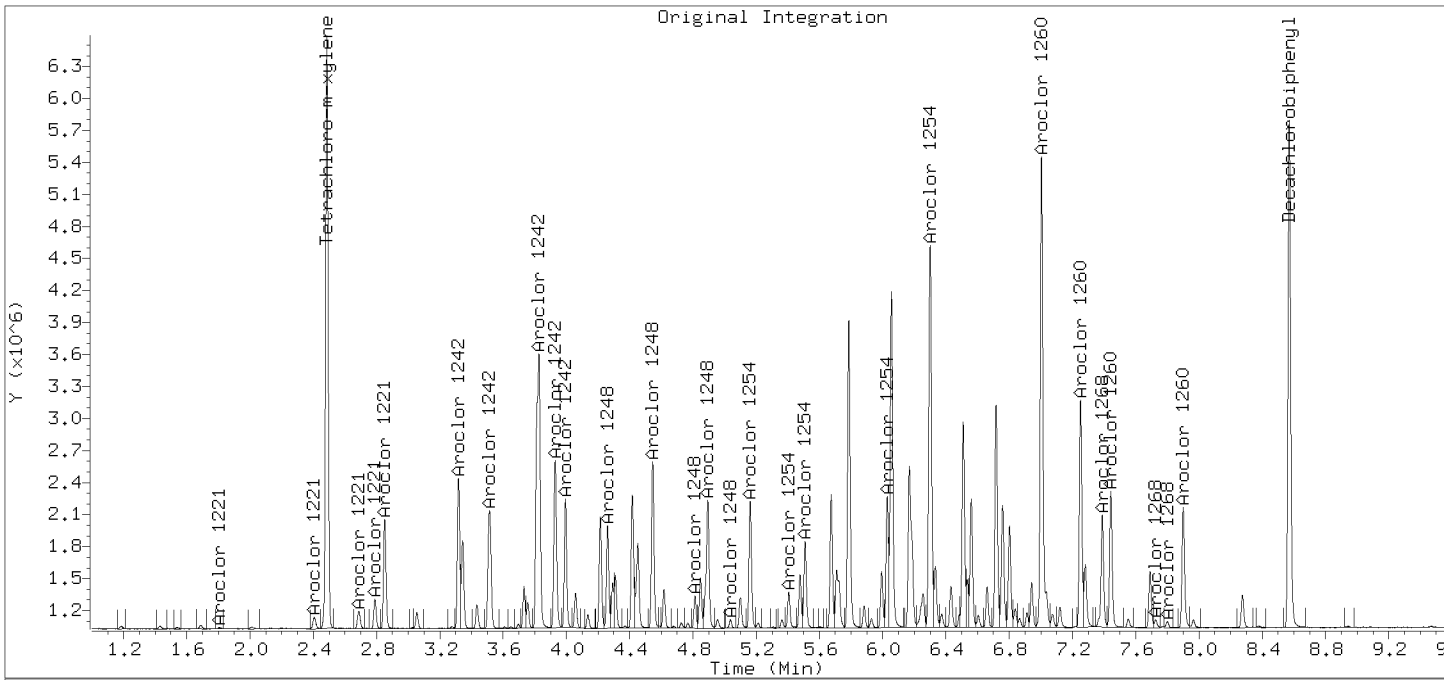
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

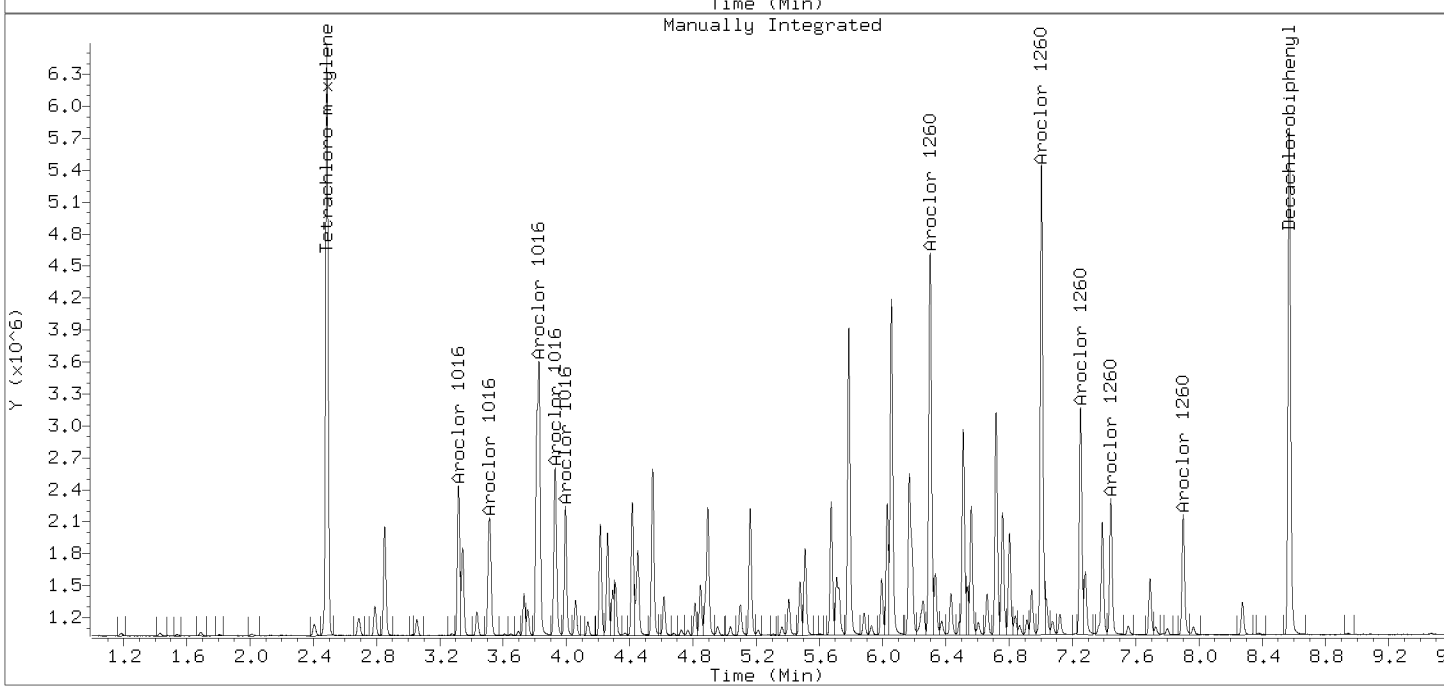
Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D
Date : 28-MAR-2018 17:19
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818016.D (ManInt: AR1660.sub Orig: all.sub)
Injection Date: 28-MAR-2018 17:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Tetrachloro-m-xylene	6137942	6137942	
Decachlorobiphenyl	5593526	5593526	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	28611	24110	0.843	0.10		
1.432	38050	29406	0.773	0.14		
1.537	16847	14036	0.833	0.06		
1.686	18795	16246	0.864	0.07		
1.806	293863	246585	0.839	1.11		
2.011	20417	15641	0.766	0.07		
2.198	82173	72036	0.877	0.31		
2.406	195034	143989	0.738	0.73		
2.485	5786443	5418296	0.936	22.29	$ 2 Tetrachloro-m-xylene	
2.688	423326	346437	0.818	1.60		
2.789	394101	358789	0.910	1.49		
2.851	1269350	1141797	0.900	4.80	4 Aroclor 1232	BA
3.029	11732	14025	1.195	0.04		
3.054	90724	73974	0.815	0.34		
3.281	66768	49387	0.740	0.25		
3.318	736732	655403	0.890	2.79		
3.344	402334	361823	0.899	1.52		
3.433	113342	103719	0.915	0.42		
3.513	669053	481887	0.720	2.53	4 Aroclor 1232	BA
3.609	20062	17884	0.891	0.07		
3.698	24610	20932	0.851	0.09		
3.732	176560	173194	0.981	0.66		
3.756	126992	114145	0.899	0.48		
3.826	1865355	1089801	0.584	7.06	4 Aroclor 1232	BA
3.930	797462	669657	0.840	3.02	4 Aroclor 1232	BA
3.995	527323	498762	0.946	1.99	4 Aroclor 1232	BA
4.059	153252	131901	0.861	0.58		
4.137	59676	53239	0.892	0.22		
4.215	394581	370771	0.940	1.49		
4.261	383584	358821	0.935	1.45		
4.293	168081	172238	1.025	0.63		
4.310	197644	184817	0.935	0.74		
4.417	533725	493147	0.924	2.02		
4.452	414687	311008	0.750	1.57		
4.547	676915	620446	0.917	2.56		
4.618	163928	152581	0.931	0.62		
4.677	16561	13343	0.806	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	33649	30922	0.919	0.12	
4.768	37020	33477	0.904	0.14	
4.813	297483	283159	0.952	1.12	
4.848	519297	483260	0.931	1.96	
4.879	679028	512647	0.755	2.57	
4.958	74870	56417	0.754	0.28	
5.037	551301	496890	0.901	2.08	
5.098	114768	86161	0.751	0.43	
5.163	127977	114468	0.894	0.48	
5.212	90559	78383	0.866	0.34	
5.308	25509	19884	0.780	0.09	
5.363	78766	67279	0.854	0.29	
5.407	138700	114980	0.829	0.52	
5.446	84273	70209	0.833	0.31	
5.510	220958	164243	0.743	0.83	
5.605	67711	57426	0.848	0.25	
5.672	13331	11647	0.874	0.05	
5.791	146328	110676	0.756	0.55	
5.884	18310	13481	0.736	0.06	
6.025	106645	95460	0.895	0.40	
6.056	33501	27285	0.814	0.12	
6.170	14328	11980	0.836	0.05	
6.299	39749	32967	0.829	0.15	
6.509	12262	11270	0.919	0.04	
6.719	16301	13619	0.835	0.06	
7.003	30494	20946	0.687	0.11	
7.124	27056	15787	0.583	0.10	
7.251	15684	11663	0.744	0.05	
7.438	9492	7819	0.824	0.03	
7.692	13467	9906	0.736	0.05	
7.726	30600	26257	0.858	0.11	
7.768	16249	11313	0.696	0.06	
7.799	27557	22489	0.816	0.10	
8.277	47916	40368	0.842	0.18	
8.378	21581	16221	0.752	0.08	
8.571	5107752	4316134	0.845	19.35	$ 12 Decachlorobiphenyl
8.938	10862	9594	0.883	0.04	
9.410	9812	13044	1.329	0.03	
9.426	12356	16262	1.316	0.04	
9.465	69759	22340	0.320	0.26	
9.854	13935	10507	0.754	0.05	
9.867	13247	9964	0.752	0.05	
9.957	13957	11464	0.821	0.05	
	26393094	22604541		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	5786442	0.05000	0.047			
4 Aroclor 1232						CAS #: 1114-16-5		
2.851	2.851	0.000	1269349	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669052	0.50000	0.50	0.00- 20.00	52.71	BA
3.826	3.827	-0.001	1865355	0.50000	0.50	0.00- 20.00	146.95	BA
3.929	3.929	0.000	797462	0.50000	0.50	0.00- 20.00	62.82	BA
3.994	3.995	-0.001	527322	0.50000	0.48	0.00- 20.00	41.54	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5107751	0.05000	0.047			

QC Flag Legend

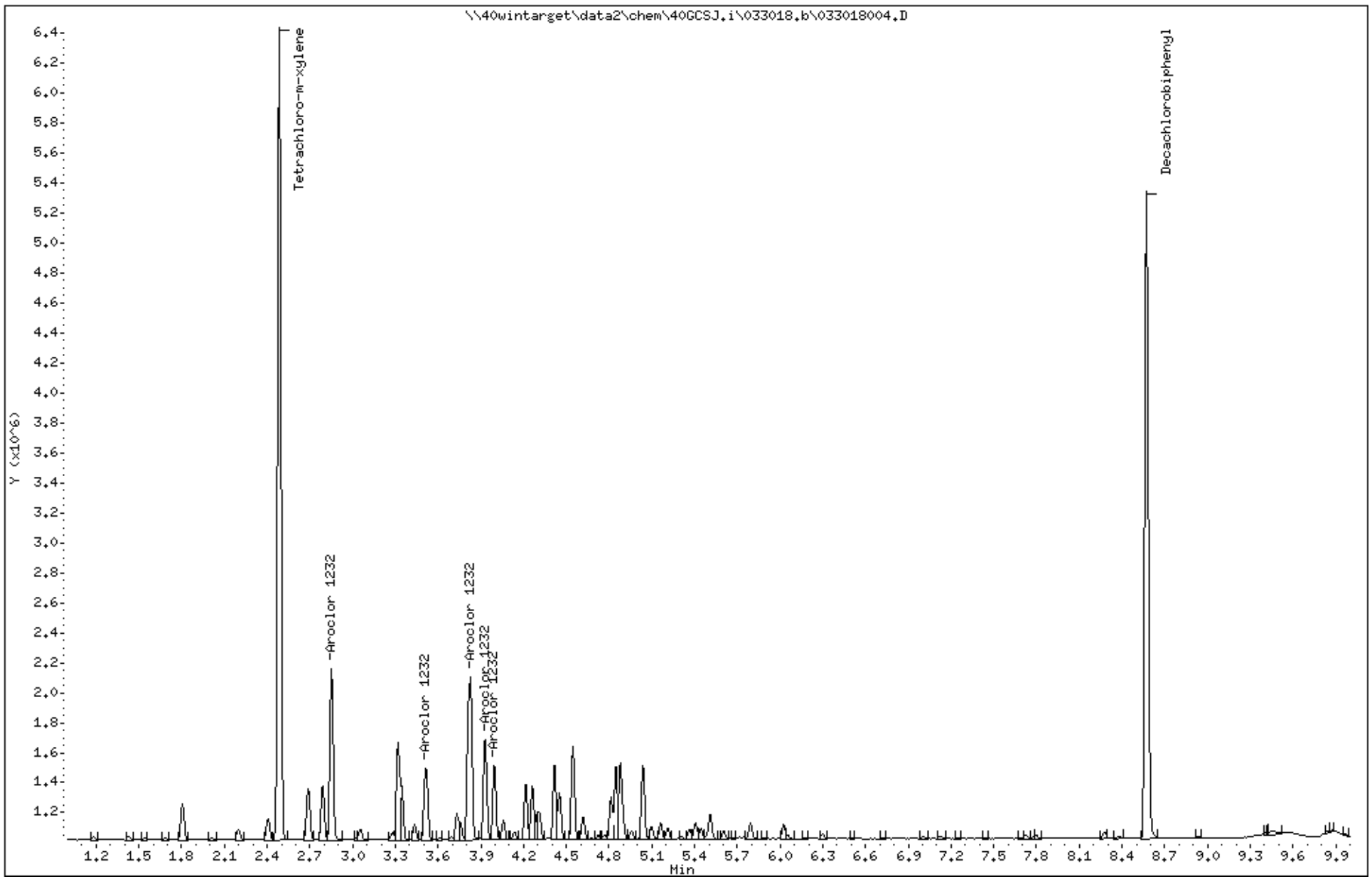
M - Compound response manually integrated.

Review Codes Legend

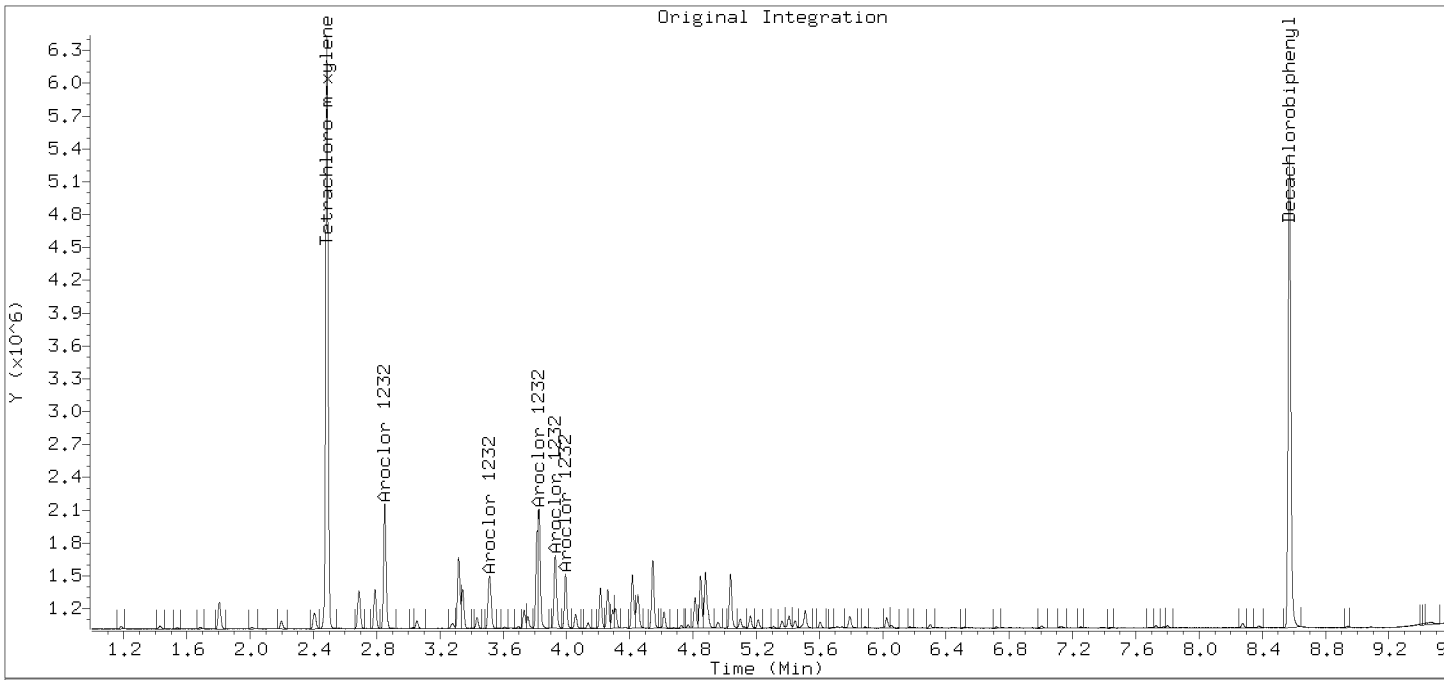
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

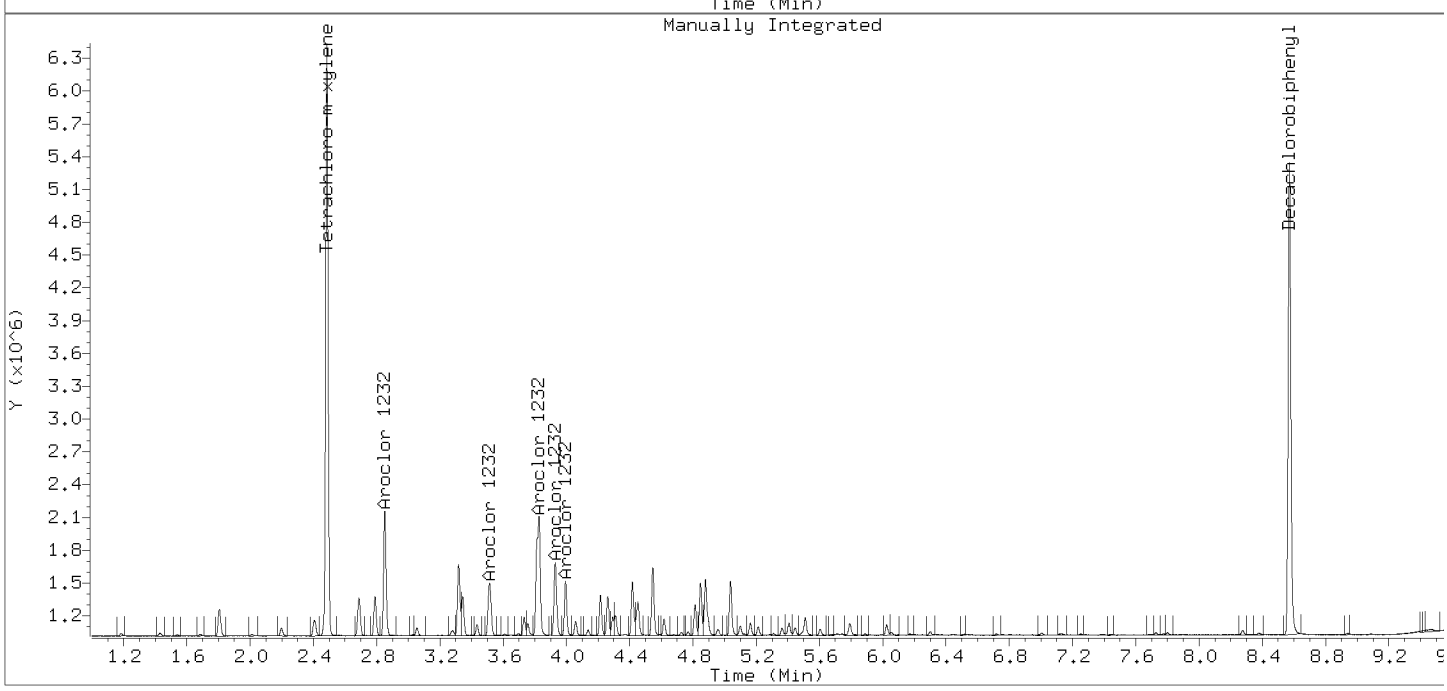
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Date : 30-MAR-2018 15:47
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 30-MAR-2018 15:47 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Tetrachloro-m-xylene	5786442	5786442	
Decachlorobiphenyl	5107751	5107751	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	22405	18532	0.827	0.05		
1.431	40276	30743	0.763	0.10		
1.539	21364	14547	0.681	0.05		
1.688	39933	33591	0.841	0.10		
1.806	15485	14673	0.948	0.03		
2.405	121508	92266	0.759	0.30		
2.485	6015047	5620296	0.934	15.57	$ 2 Tetrachloro-m-xylene	
2.686	179100	142673	0.797	0.45		
2.788	272860	250720	0.919	0.68		
2.851	954082	877697	0.920	2.40		
3.054	143309	127113	0.887	0.36		
3.278	26506	18895	0.713	0.06		
3.318	1295039	1187612	0.917	3.27	3 Aroclor 1242	BA
3.344	747922	694661	0.929	1.88		
3.435	208397	185067	0.888	0.52		
3.512	1286692	915338	0.711	3.25	3 Aroclor 1242	BA
3.610	24609	19552	0.795	0.06		
3.651	23747	16018	0.675	0.05		
3.697	36677	35434	0.966	0.09		
3.731	326714	316997	0.970	0.82		
3.756	224700	206128	0.917	0.56		
3.826	3677233	2126529	0.578	9.28	3 Aroclor 1242	BA
3.929	1578983	1297420	0.822	3.98	3 Aroclor 1242	BA
3.994	1048461	998756	0.953	2.64	3 Aroclor 1242	BA
4.058	319715	283616	0.887	0.80		
4.137	129269	107709	0.833	0.32		
4.214	874601	807996	0.924	2.20		
4.260	836630	806365	0.964	2.11		
4.292	341738	359002	1.051	0.86		
4.310	446814	398295	0.891	1.12		
4.370	31927	21945	0.687	0.08		
4.416	1142103	1082234	0.948	2.88		
4.451	913690	659762	0.722	2.30		
4.545	1510362	1343728	0.890	3.81		
4.617	346342	309594	0.894	0.87		
4.680	28187	21496	0.763	0.07		
4.725	76119	62203	0.817	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	83108	78177	0.941	0.20	
4.812	699910	670567	0.958	1.76	
4.847	1202699	1133950	0.943	3.03	
4.878	1544124	1135518	0.735	3.90	
4.957	178912	133914	0.748	0.45	
5.037	1280421	1148948	0.897	3.23	
5.098	277704	209878	0.756	0.70	
5.161	321799	274805	0.854	0.81	
5.212	247007	219787	0.890	0.62	
5.284	20360	19125	0.939	0.05	
5.306	56120	46311	0.825	0.14	
5.362	209417	177043	0.845	0.52	
5.405	350926	280474	0.799	0.88	
5.444	220385	194602	0.883	0.55	
5.509	566724	432643	0.763	1.43	
5.603	171864	143328	0.834	0.43	
5.671	16234	12840	0.791	0.04	
5.714	36570	29147	0.797	0.09	
5.740	47521	42277	0.890	0.12	
5.760	14752	20251	1.373	0.03	
5.792	396864	315002	0.794	1.00	
5.888	62266	38258	0.614	0.15	
6.023	379459	274459	0.723	0.95	
6.168	37049	22222	0.600	0.09	
6.225	31667	17003	0.537	0.07	
6.298	108595	93635	0.862	0.27	
6.332	23600	21579	0.914	0.05	
6.372	18762	14987	0.799	0.04	
6.533	46511	33158	0.713	0.11	
6.799	24472	18645	0.762	0.06	
7.250	11396	10214	0.896	0.02	
7.726	29012	23418	0.807	0.07	
7.796	24839	18196	0.733	0.06	
8.274	54802	45908	0.838	0.13	
8.570	5404034	4589082	0.849	13.65	$ 12 Decachlorobiphenyl
8.934	12372	9481	0.766	0.03	
9.463	21668	13742	0.634	0.05	
9.959	26183	16834	0.643	0.06	
	39588648	33484611		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6015046	0.05000	0.049			
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1295038	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1286692	0.50000	0.51	0.00- 20.00	99.36	BA
3.825	3.827	-0.002	3677232	0.50000	0.52	0.00- 20.00	283.95	BA
3.928	3.929	-0.001	1578983	0.50000	0.52	0.00- 20.00	121.93	BA
3.994	3.995	-0.001	1048461	0.50000	0.51	0.00- 20.00	80.96	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5404034	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D

Date : 30-MAR-2018 18:57

Client ID: 1242-CCV

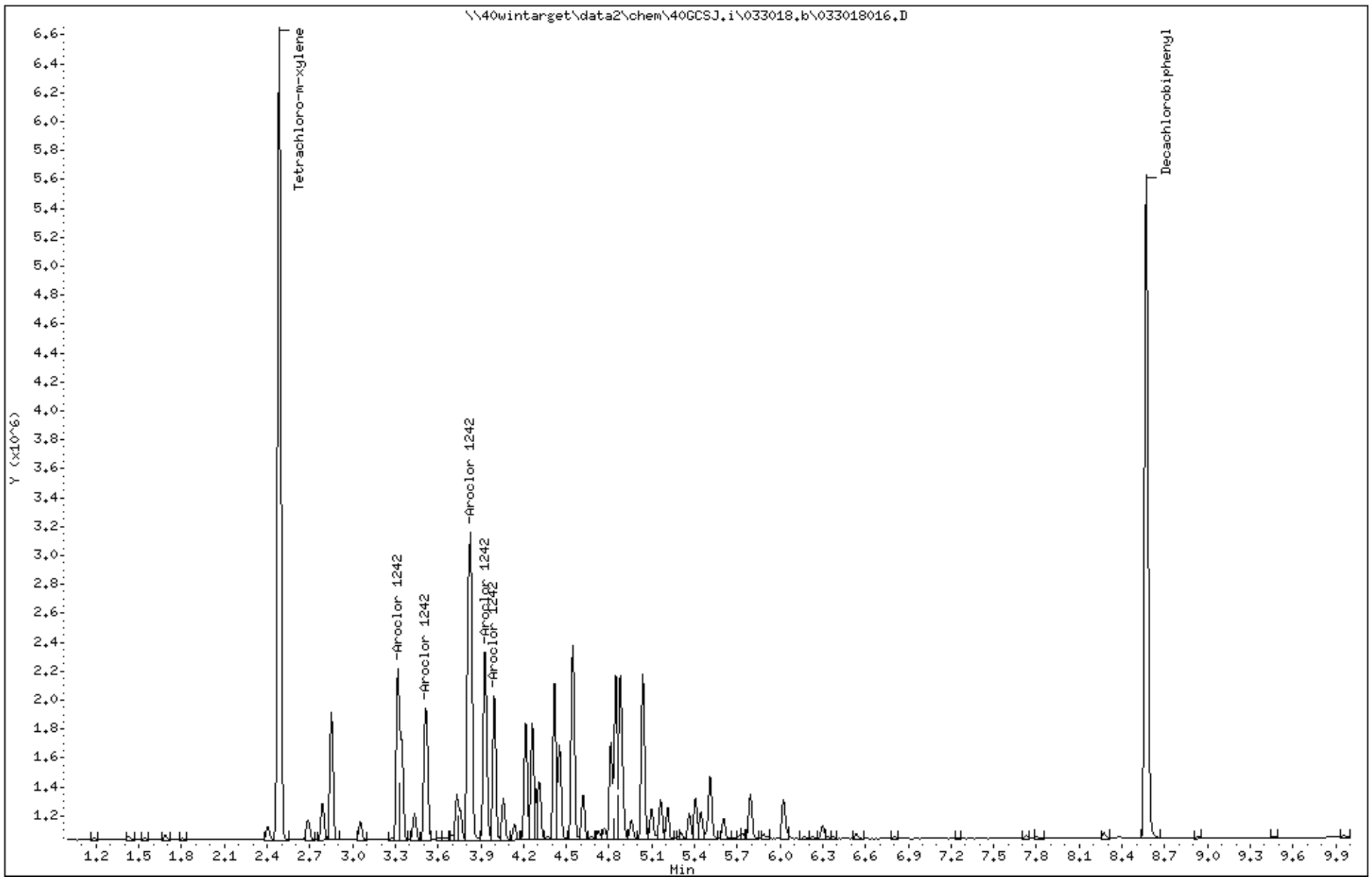
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

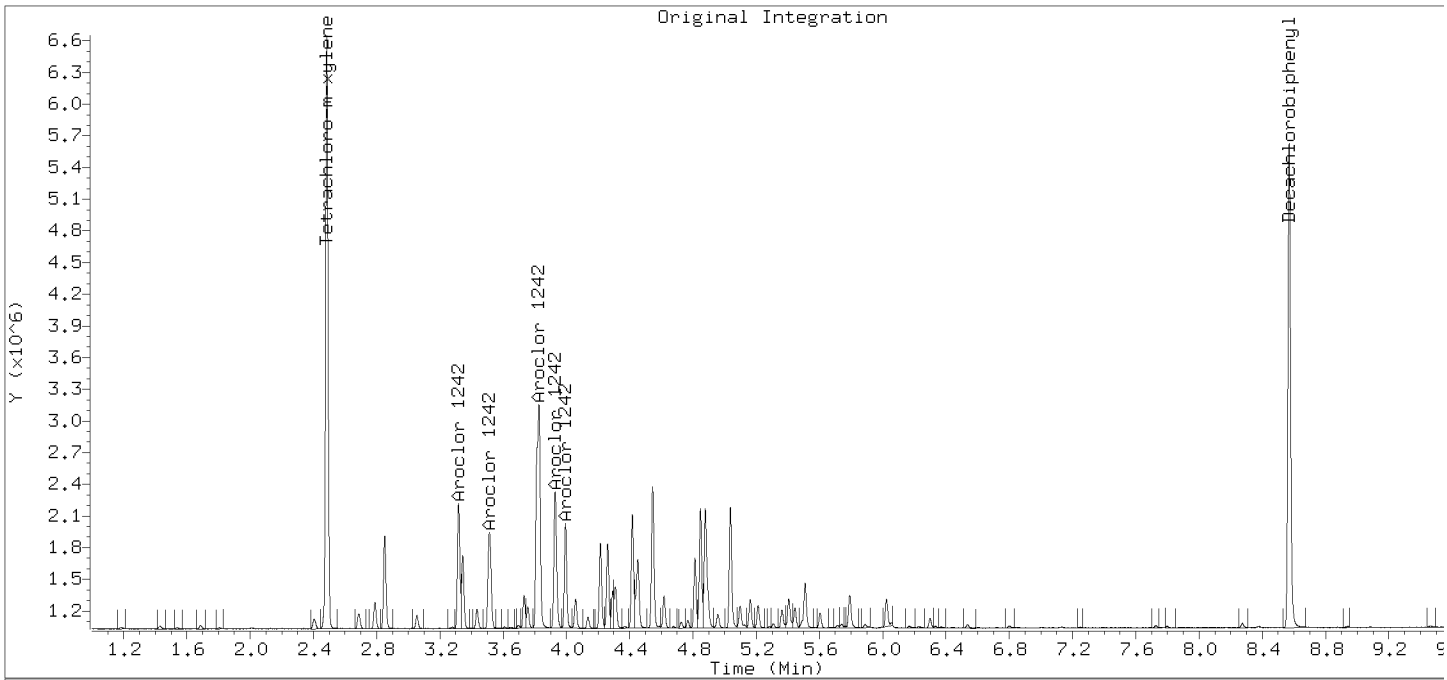
Operator: BLM

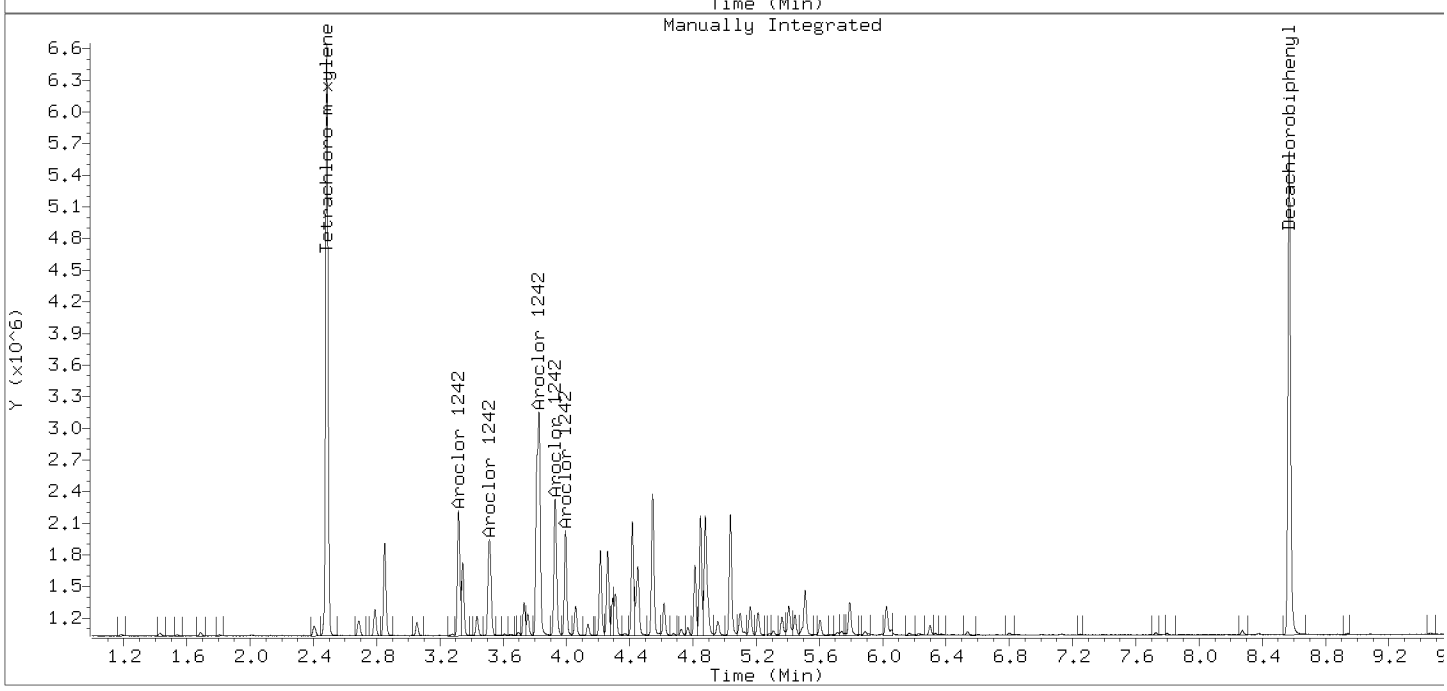
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 30-MAR-2018 18:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Tetrachloro-m-xylene	6015046	6015046	
Decachlorobiphenyl	5404034	5404034	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 05-APR-2018 14:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	43084	30605	0.710	0.09		
1.429	40661	29962	0.737	0.09		
1.538	17988	14319	0.796	0.04		
1.684	24696	16928	0.685	0.05		
2.013	29408	18131	0.617	0.06		
2.405	25009	17676	0.707	0.05		
2.485	6083796	5556709	0.913	14.39	$ 2 Tetrachloro-m-xylene	
2.688	32058	24543	0.766	0.07		
2.788	121237	107870	0.890	0.27		
2.851	190109	170028	0.894	0.43		
3.056	47080	48404	1.028	0.10		
3.317	721819	682569	0.946	1.64		
3.343	304974	283240	0.929	0.69		
3.434	69423	60425	0.870	0.15		
3.515	591638	432013	0.730	1.34		
3.611	16922	15274	0.903	0.03		
3.647	9689	9303	0.960	0.02		
3.686	11794	10295	0.873	0.02		
3.732	130418	130266	0.999	0.29		
3.755	67050	55984	0.835	0.15		
3.813	1027331	1192583	1.161	2.34		
3.825	1286040	1225650	0.953	2.93		
3.930	892027	677970	0.760	2.03		
3.994	589843	542527	0.920	1.34		
4.058	355642	318666	0.896	0.81		
4.136	152958	137052	0.896	0.34		
4.215	1510796	1402957	0.929	3.44		
4.261	1199509	1133497	0.945	2.73	6 Aroclor 1248	BA
4.293	479062	500736	1.045	1.09		
4.310	539246	501665	0.930	1.23		
4.417	1814093	1652799	0.911	4.13		
4.452	902295	786079	0.871	2.05		
4.545	2065292	1852407	0.897	4.71	6 Aroclor 1248	BA
4.591	31811	35971	1.131	0.07		
4.617	479724	444084	0.926	1.09		
4.680	33633	22274	0.662	0.07		
4.727	64420	47307	0.734	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	107232	103938	0.969	0.24	
4.813	971875	927152	0.954	2.21	6 Aroclor 1248
4.847	1887011	1740497	0.922	4.30	
4.878	2488943	1580601	0.635	5.67	6 Aroclor 1248
4.957	316354	251435	0.795	0.72	
5.037	1704139	1556762	0.914	3.88	6 Aroclor 1248
5.099	661472	526665	0.796	1.50	
5.161	776116	698233	0.900	1.77	
5.212	554151	484156	0.874	1.26	
5.284	41186	37657	0.914	0.09	
5.309	124189	102187	0.823	0.28	
5.363	473082	401354	0.848	1.07	
5.407	809581	681338	0.842	1.84	
5.445	490285	425460	0.868	1.11	
5.509	1321954	1109312	0.839	3.01	
5.604	388705	328020	0.844	0.88	
5.673	52243	41687	0.798	0.11	
5.716	86551	61225	0.707	0.19	
5.740	121977	83422	0.684	0.27	
5.792	867892	689374	0.794	1.98	
5.888	126525	72081	0.570	0.28	
5.993	30397	30130	0.991	0.06	
6.024	702388	604634	0.861	1.60	
6.056	164757	131937	0.801	0.37	
6.170	83511	52881	0.633	0.19	
6.228	56285	28679	0.510	0.12	
6.300	229108	187878	0.820	0.52	
6.332	50354	38475	0.764	0.11	
6.373	37058	30465	0.822	0.08	
6.434	22583	13925	0.617	0.05	
6.511	42769	37895	0.886	0.09	
6.536	90709	61689	0.680	0.20	
6.660	12896	11575	0.898	0.02	
6.717	41019	33200	0.809	0.09	
6.758	18111	17766	0.981	0.04	
6.803	34475	29004	0.841	0.07	
6.845	13572	10592	0.780	0.03	
6.943	12386	9216	0.744	0.02	
7.004	68093	56803	0.834	0.15	
7.120	12521	12131	0.969	0.02	
7.252	26935	23067	0.856	0.06	
7.388	33622	27487	0.818	0.07	
7.441	34978	28967	0.828	0.07	
7.688	19244	11893	0.618	0.04	
7.728	34381	30871	0.898	0.07	
7.769	12886	11515	0.894	0.02	
7.799	28940	24815	0.857	0.06	
7.902	33369	22501	0.674	0.07	
8.276	66128	53504	0.809	0.15	
8.377	23576	19359	0.821	0.05	
8.571	5317792	4655341	0.875	12.13	$ 12 Decachlorobiphenyl
8.940	27645	15648	0.566	0.06	
9.469	31534	19033	0.604	0.07	
9.840	9894	8744	0.884	0.02	
9.872	15550	11307	0.727	0.03	
9.954	16050	12463	0.777	0.03	
	43829555	38466714		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 05-APR-2018 14:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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: 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	6083796	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1199509	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2065292	0.50000	0.50	0.00- 20.00	172.18	BA
4.812	4.812	0.000	971874	0.50000	0.48	0.00- 20.00	81.02	BA
4.878	4.879	-0.001	2488942	0.50000	0.49	0.00- 20.00	207.50	BA
5.036	5.038	-0.002	1704138	0.50000	0.47	0.00- 20.00	142.07	BA
Average of Peak Amounts =					0.49000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5317792	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\040518.b\040518004.D

Date : 05-APR-2018 14:07

Client ID: 1248-CCV

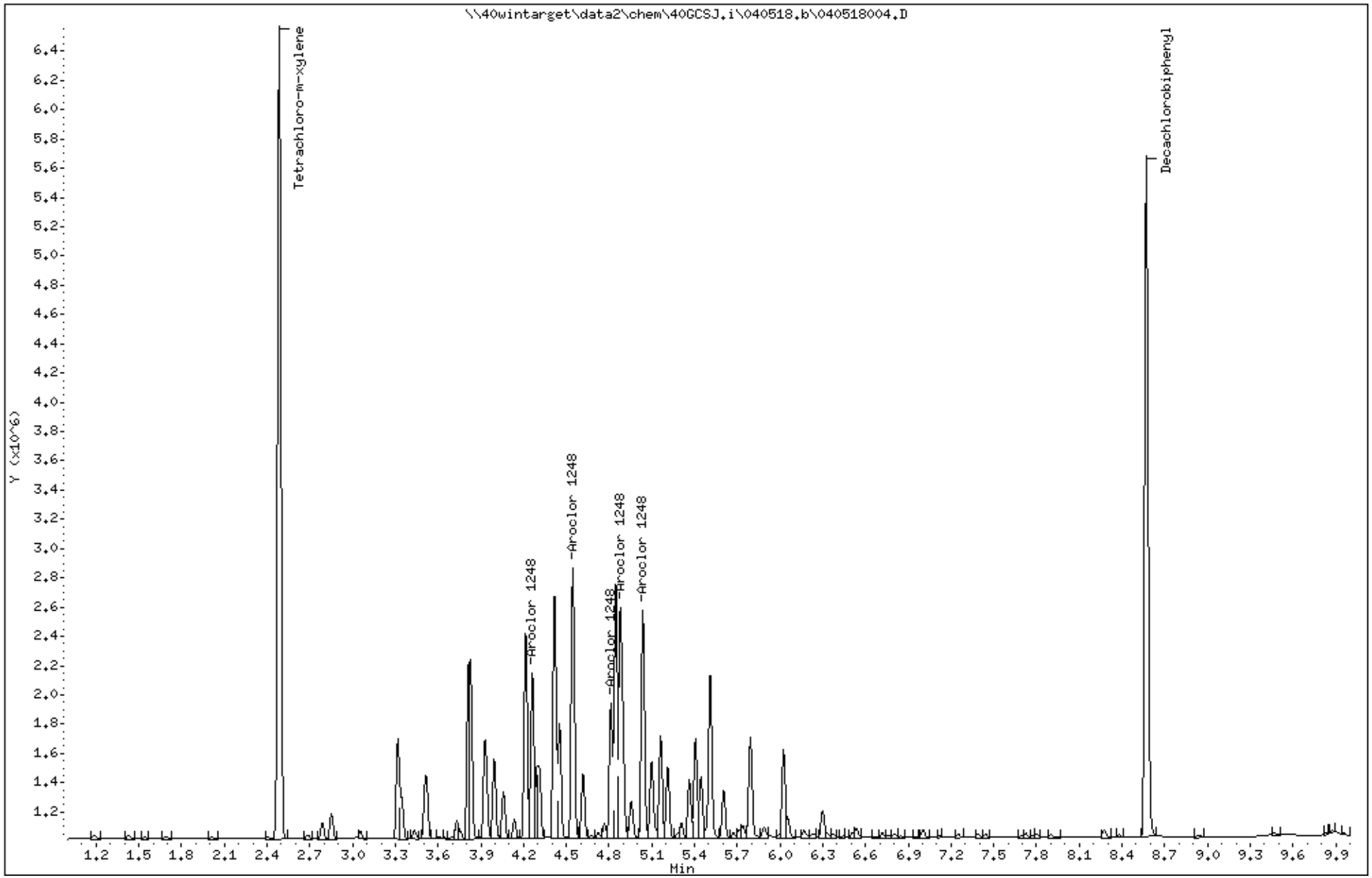
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

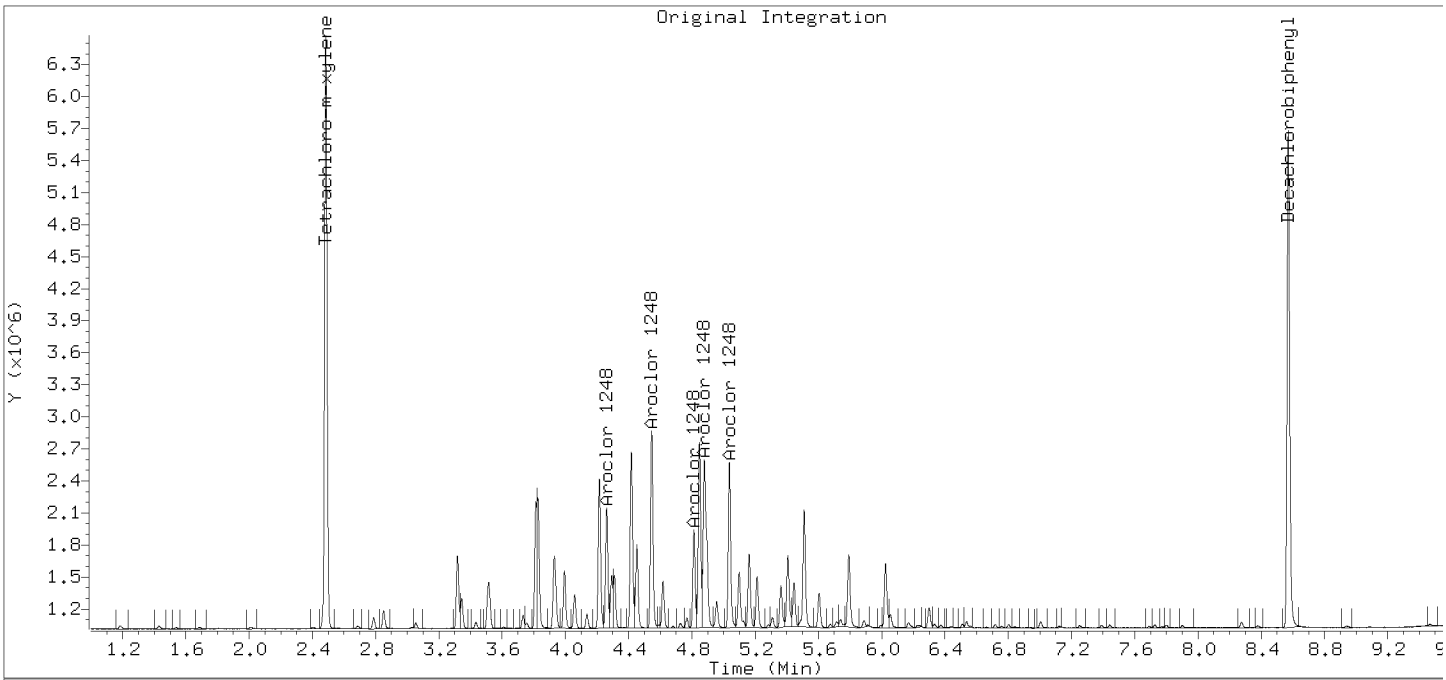
Operator: BLM

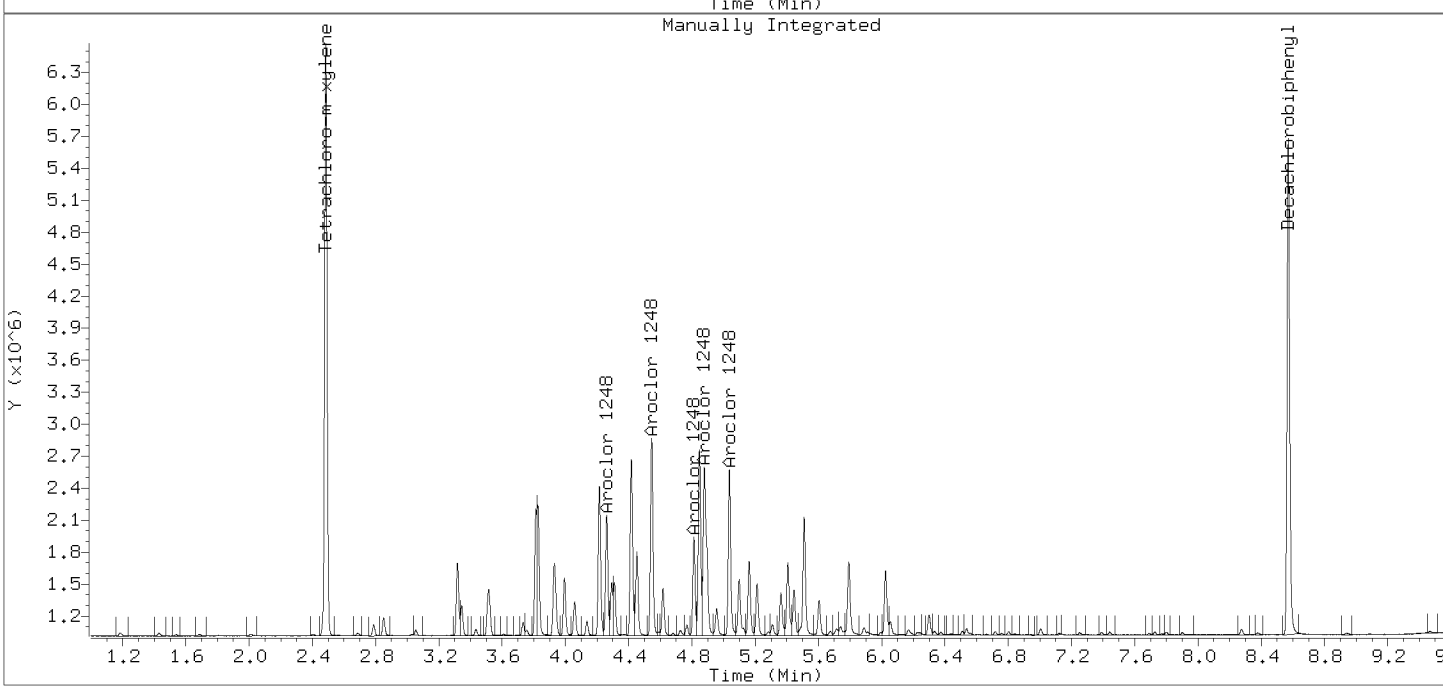
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 05-APR-2018 14:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Aroclor 1248	1183475	1199509	BA
Tetrachloro-m-xylene	6083796	6083796	
Decachlorobiphenyl	5317792	5317792	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 05-APR-2018 17:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	38446	28990	0.754	0.07		
1.429	39738	32973	0.830	0.07		
1.534	17554	14865	0.847	0.03		
1.688	23749	19046	0.802	0.04		
2.012	24631	17440	0.708	0.04		
2.484	6233332	5850488	0.939	11.91	$ 2 Tetrachloro-m-xylene	
2.788	88329	83760	0.948	0.16		
2.851	23512	20471	0.871	0.04		
3.027	10203	11927	1.169	0.01		
3.050	17469	15964	0.914	0.03		
3.316	30799	28414	0.923	0.05		
3.345	16961	17804	1.050	0.03		
3.512	23537	19624	0.834	0.04		
3.608	21117	17834	0.845	0.03		
3.731	10808	11029	1.020	0.01		
3.814	97647	57642	0.590	0.17		
3.937	61882	43576	0.704	0.11		
3.995	32879	28776	0.875	0.06		
4.054	28897	21436	0.742	0.05		
4.135	9258	9871	1.066	0.01		
4.214	1280127	1205606	0.942	2.35		
4.261	347590	333228	0.959	0.64		
4.292	73015	50915	0.697	0.13		
4.417	783202	740269	0.945	1.44		
4.453	76939	71868	0.934	0.14		
4.545	341206	322530	0.945	0.62		
4.617	52258	52140	0.998	0.09		
4.680	16281	16063	0.987	0.02		
4.770	17083	18359	1.075	0.03		
4.813	284084	274405	0.966	0.52		
4.848	1125230	1058594	0.941	2.07		
4.894	2503952	1967047	0.786	4.61		
4.956	405543	354769	0.875	0.74		
5.036	238828	217685	0.911	0.43		
5.099	1462017	1257373	0.860	2.69		
5.162	2680270	2421251	0.903	4.93	7 Aroclor 1254	BA
5.212	1231949	1097890	0.891	2.26		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.284	59697	60855	1.019	0.10	
5.308	221640	199752	0.901	0.40	
5.362	1057849	961055	0.908	1.94	
5.407	2208829	1954345	0.885	4.06	7 Aroclor 1254
5.445	766001	665183	0.868	1.41	
5.477	281097	270081	0.961	0.51	
5.509	3983477	3497443	0.878	7.33	7 Aroclor 1254
5.604	557875	469260	0.841	1.02	
5.675	365888	326243	0.892	0.67	
5.711	550617	354333	0.644	1.01	
5.741	347719	284035	0.817	0.64	
5.790	3999432	3027750	0.757	7.36	
5.885	356190	269389	0.756	0.65	
5.926	195374	120478	0.617	0.35	
5.993	328201	310268	0.945	0.60	
6.026	2455055	2031037	0.827	4.52	7 Aroclor 1254
6.055	1867689	1516646	0.812	3.43	
6.169	720501	606633	0.842	1.32	
6.226	544314	296954	0.546	1.00	
6.299	3325422	2724014	0.819	6.12	7 Aroclor 1254
6.334	614116	532746	0.867	1.13	
6.374	348767	277565	0.796	0.64	
6.439	92737	50176	0.541	0.17	
6.511	119602	123477	1.032	0.22	
6.536	1128760	835300	0.740	2.07	
6.606	162322	125405	0.773	0.29	
6.661	29099	24882	0.855	0.05	
6.718	221779	185699	0.837	0.40	
6.759	129503	118869	0.918	0.23	
6.800	603447	491269	0.814	1.11	
6.843	174686	104242	0.597	0.32	
6.942	57301	50803	0.887	0.10	
7.005	445723	357209	0.801	0.82	
7.075	14960	15379	1.028	0.02	
7.252	325435	280396	0.862	0.59	
7.389	20515	18570	0.905	0.03	
7.445	29007	20980	0.723	0.05	
7.555	22024	16019	0.727	0.04	
7.694	18648	14678	0.787	0.03	
7.727	32443	27406	0.845	0.05	
7.777	9633	10217	1.061	0.01	
7.801	28317	21649	0.765	0.05	
7.902	18204	18004	0.989	0.03	
8.275	53969	44274	0.820	0.09	
8.380	21500	15168	0.706	0.03	
8.571	5557115	4661428	0.839	10.23	$ 12 Decachlorobiphenyl
8.940	21396	14907	0.697	0.03	
9.464	19682	15351	0.780	0.03	
9.957	20306	14332	0.706	0.03	
	54304184	46244076		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 05-APR-2018 17:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 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: 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	6233332	0.05000	0.050			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2680270	0.50000	0.51	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2208829	0.50000	0.51	0.00- 20.00	82.41	BA
5.509	5.510	-0.001	3983476	0.50000	0.51	0.00- 20.00	148.62	BA
6.026	6.027	-0.001	2455055	0.50000	0.50	0.00- 20.00	91.60	BA
6.298	6.299	-0.001	3325422	0.50000	0.51	0.00- 20.00	124.07	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5557115	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\040518.b\040518016.D

Date : 05-APR-2018 17:18

Client ID: 1254-CCV

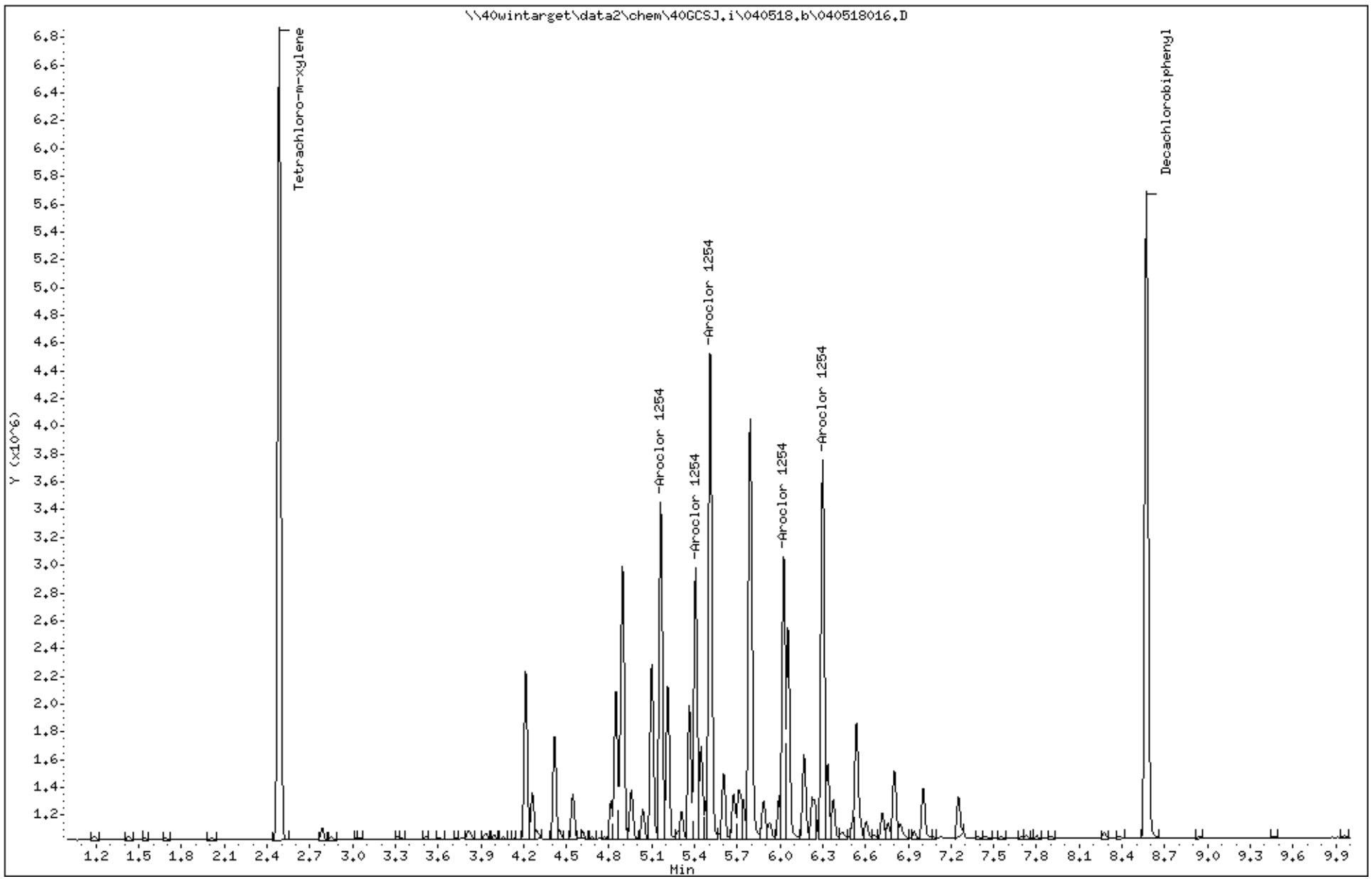
Instrument: 40GCSJ.i

Sample Info: 1254-CCV, 185554:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518016.D (ManInt: AR1254.sub Orig: AR1248.sub)
Injection Date: 05-APR-2018 17:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV

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

Date Received:

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/22/2018 07:22

Lab Sample ID: 1662163

Date Analyzed: 03/23/2018 13:57

Lab File ID: 032318.B\032318006.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\032318.b\032318006.D
Lab Smp Id: 1662163 Client Smp ID: MB
Inj Date : 23-MAR-2018 13:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662163,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.428	12179	8452	0.694	0.06		
2.199	39819	28826	0.724	0.20		
2.485	9488273	9225313	0.972	47.96	$ 2 Tetrachloro-m-xylene	
2.787	18993	15333	0.807	0.09		
6.191	15894	10973	0.690	0.08		
7.120	20829	15418	0.740	0.10		
7.688	12321	11087	0.900	0.06		
7.728	51572	42784	0.830	0.26		
7.799	42938	31312	0.729	0.21		
8.274	88379	75262	0.852	0.44		
8.375	15083	10936	0.725	0.07		
8.570	9964295	8762351	0.879	50.42	$ 12 Decachlorobiphenyl	
9.958	11581	8016	0.692	0.05		
	19782157	18246063		100.000		

Total unknown % area = 1.6

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318006.D
Lab Smp Id: 1662163 Client Smp ID: MB
Inj Date : 23-MAR-2018 13:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662163,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	9488272	0.07696	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9964294	0.09095		45		

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318006.D

Date : 23-MAR-2018 13:57

Client ID: MB

Instrument: 40GCSJ.i

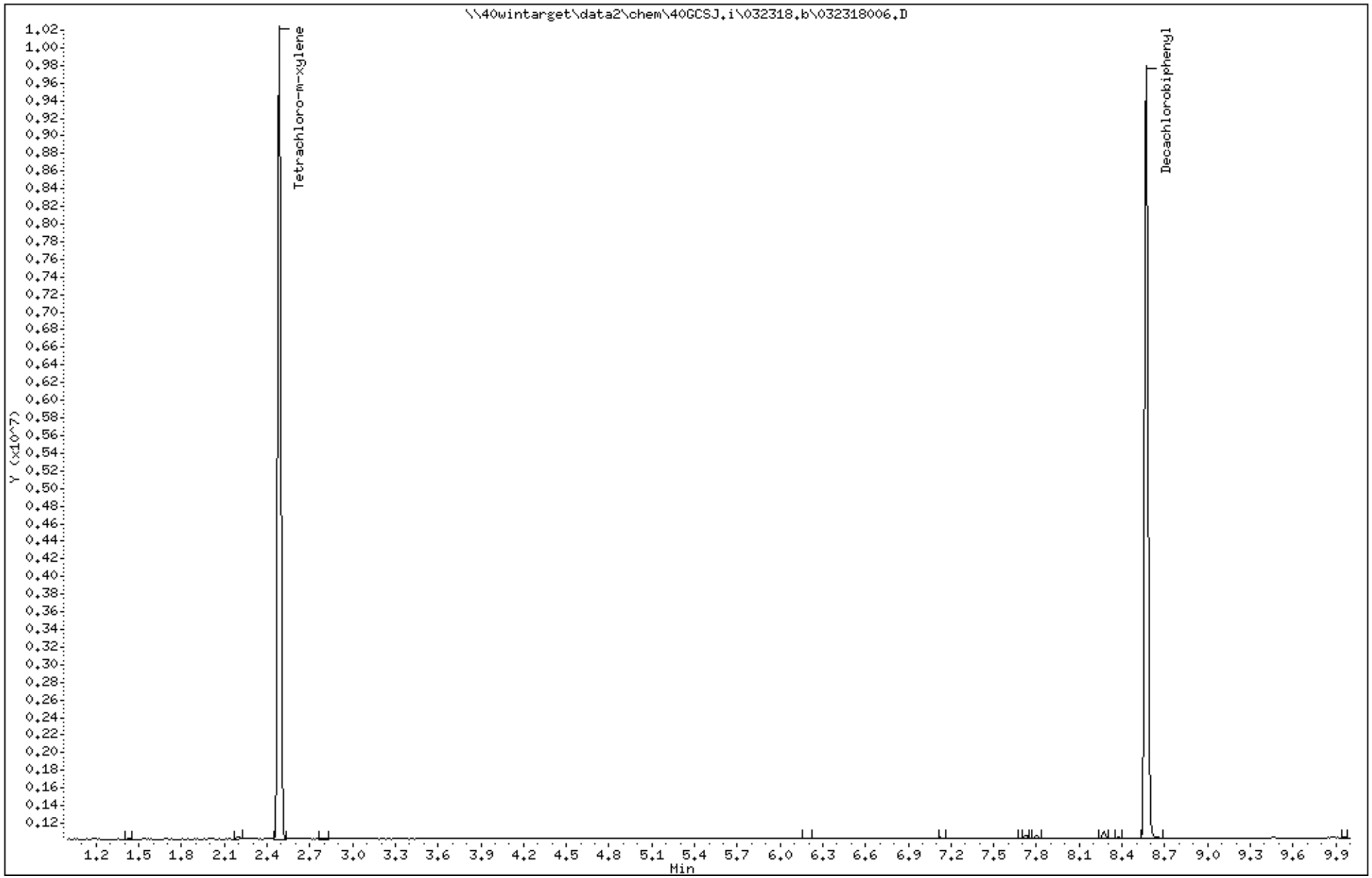
Sample Info: 1662163,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 13:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662163

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	9488272	9488272	
Decachlorobiphenyl	9964294	9964294	

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

Date Received:

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/22/2018 07:22

Lab Sample ID: 1662164

Date Analyzed: 03/23/2018 14:13

Lab File ID: 032318.B\032318007.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)	240	
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\032318.b\032318007.D
Lab Smp Id: 1662164 Client Smp ID: MBLCS
Inj Date : 23-MAR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662164,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	25790	17808	0.691	0.05		
1.432	12409	8137	0.656	0.02		
1.540	13299	8815	0.663	0.02		
1.687	10080	8978	0.891	0.02		
1.806	16788	14720	0.877	0.03		
2.010	19646	11195	0.570	0.04		
2.198	61085	36363	0.595	0.13		
2.405	115332	89419	0.775	0.25		
2.485	9614397	9257696	0.963	21.25	$ 2 Tetrachloro-m-xylene	
2.688	180548	140688	0.779	0.39		
2.789	216380	198026	0.915	0.47		
2.851	953862	863098	0.905	2.10		
3.025	12733	11128	0.874	0.02		
3.055	126513	111950	0.885	0.27		
3.280	25615	17643	0.689	0.05		
3.318	1222541	1138276	0.931	2.70	3 Aroclor 1242	BA
3.344	687291	645001	0.938	1.51		
3.434	191547	173259	0.905	0.42		
3.513	1196708	864952	0.723	2.64	3 Aroclor 1242	BA
3.644	23856	16235	0.681	0.05		
3.696	35097	35030	0.998	0.07		
3.731	312282	309479	0.991	0.69		
3.756	206043	200912	0.975	0.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	3447797	1989905	0.577	7.62	3 Aroclor 1242
3.929	1477112	1213033	0.821	3.26	3 Aroclor 1242
3.994	974039	927670	0.952	2.15	3 Aroclor 1242
4.058	261079	241575	0.925	0.57	
4.136	111600	99223	0.889	0.24	
4.215	814232	767910	0.943	1.80	
4.261	769342	738367	0.960	1.70	
4.293	315345	320823	1.017	0.69	
4.310	383704	354608	0.924	0.84	
4.370	27952	20073	0.718	0.06	
4.417	1078345	1003071	0.930	2.38	
4.451	810870	603985	0.745	1.79	
4.546	1341421	1234460	0.920	2.96	
4.590	16928	19000	1.122	0.03	
4.617	310486	283581	0.913	0.68	
4.675	25487	18124	0.711	0.05	
4.725	69985	57225	0.818	0.15	
4.768	71037	68297	0.961	0.15	
4.813	622451	600194	0.964	1.37	
4.847	1113083	1059991	0.952	2.46	
4.879	1402153	1030479	0.735	3.10	
4.957	154034	117246	0.761	0.34	
5.037	1153369	1068778	0.927	2.55	
5.099	238222	177247	0.744	0.52	
5.162	276788	243312	0.879	0.61	
5.212	204294	181920	0.890	0.45	
5.283	19559	15231	0.779	0.04	
5.307	50273	40777	0.811	0.11	
5.363	178136	152492	0.856	0.39	
5.407	293043	246793	0.842	0.64	
5.445	178647	156628	0.877	0.39	
5.509	472730	366850	0.776	1.04	
5.603	139500	126608	0.908	0.30	
5.674	16407	14094	0.859	0.03	
5.716	30024	22960	0.765	0.06	
5.740	35645	31290	0.878	0.07	
5.790	303865	245355	0.807	0.67	
5.889	45697	30027	0.657	0.10	
6.023	253370	216670	0.855	0.56	
6.054	46018	38006	0.826	0.10	
6.170	17280	12714	0.736	0.03	
6.299	64163	52337	0.816	0.14	
6.334	17201	11227	0.653	0.03	
6.373	12829	9829	0.766	0.02	
6.447	9389	7793	0.830	0.02	
6.534	13316	13621	1.023	0.02	
6.719	11956	10720	0.897	0.02	
6.799	15036	10971	0.730	0.03	
7.005	18123	16200	0.894	0.04	
7.122	34626	17865	0.516	0.07	
7.692	14611	12874	0.881	0.03	
7.725	55115	46117	0.837	0.12	
7.800	45537	34601	0.760	0.10	
8.272	88406	75953	0.859	0.19	
8.377	13738	11761	0.856	0.03	
8.569	9967953	8439253	0.847	22.42	$ 12 Decachlorobiphenyl
9.470	14038	9031	0.643	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	45227225	39115553		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318007.D
Lab Smp Id: 1662164 Client Smp ID: MBLCS
Inj Date : 23-MAR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662164,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	9614397	0.07798	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1222540	0.48261	240	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1196707	0.47488	240	0.00- 20.00	97.89	BA
3.826	3.827	-0.001	3447797	0.48448	240	0.00- 20.00	282.02	BA
3.929	3.929	0.000	1477112	0.48565	240	0.00- 20.00	120.82	BA
3.994	3.995	-0.001	974038	0.47566	240	0.00- 20.00	79.67	BA
Average of Peak Concentrations =					240			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9967952	0.09098	45	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318007.D

Date : 23-MAR-2018 14:13

Client ID: MBLCS

Instrument: 40GCSJ.i

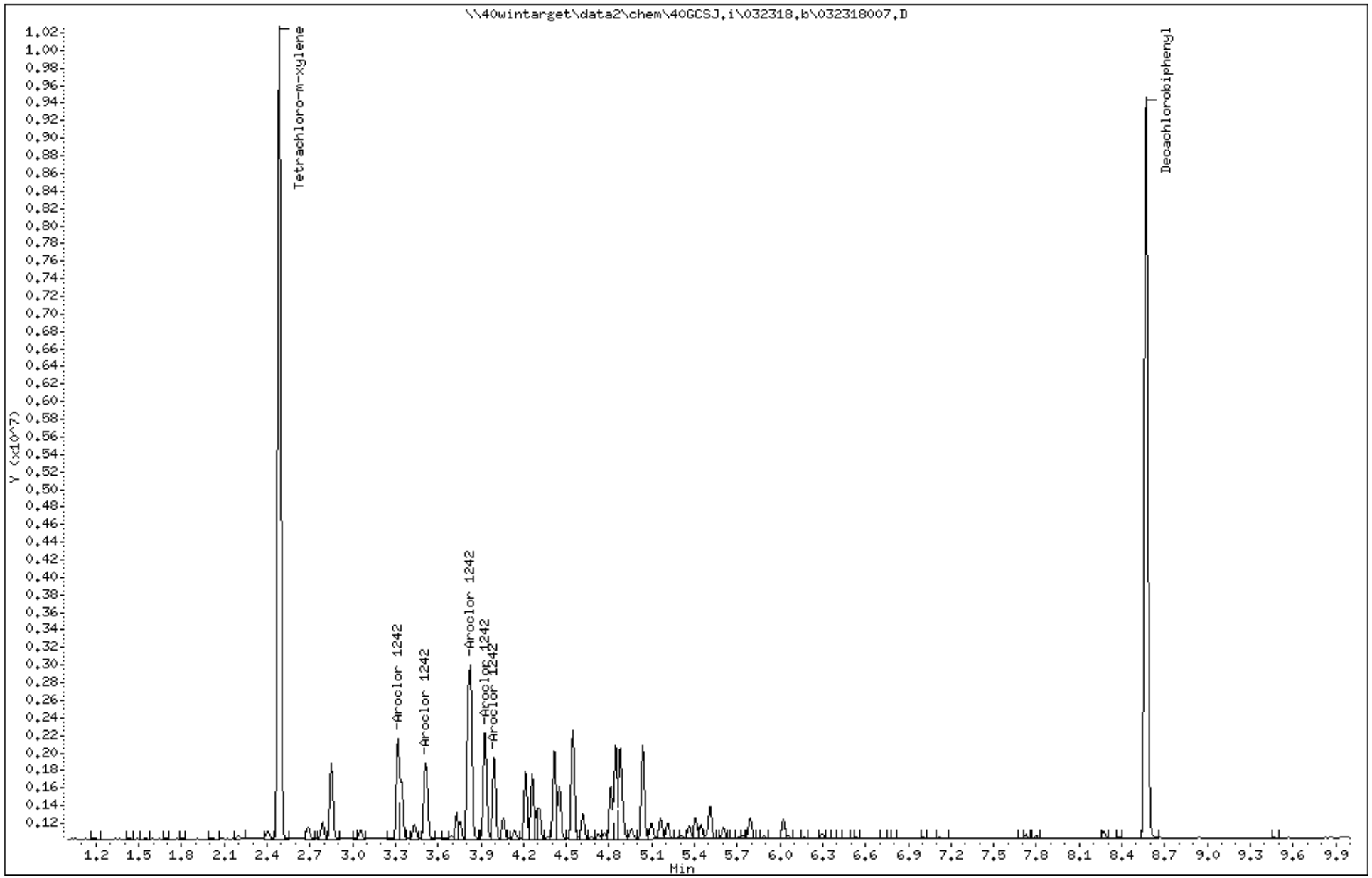
Sample Info: 1662164,

Volume Injected (uL): 1.0

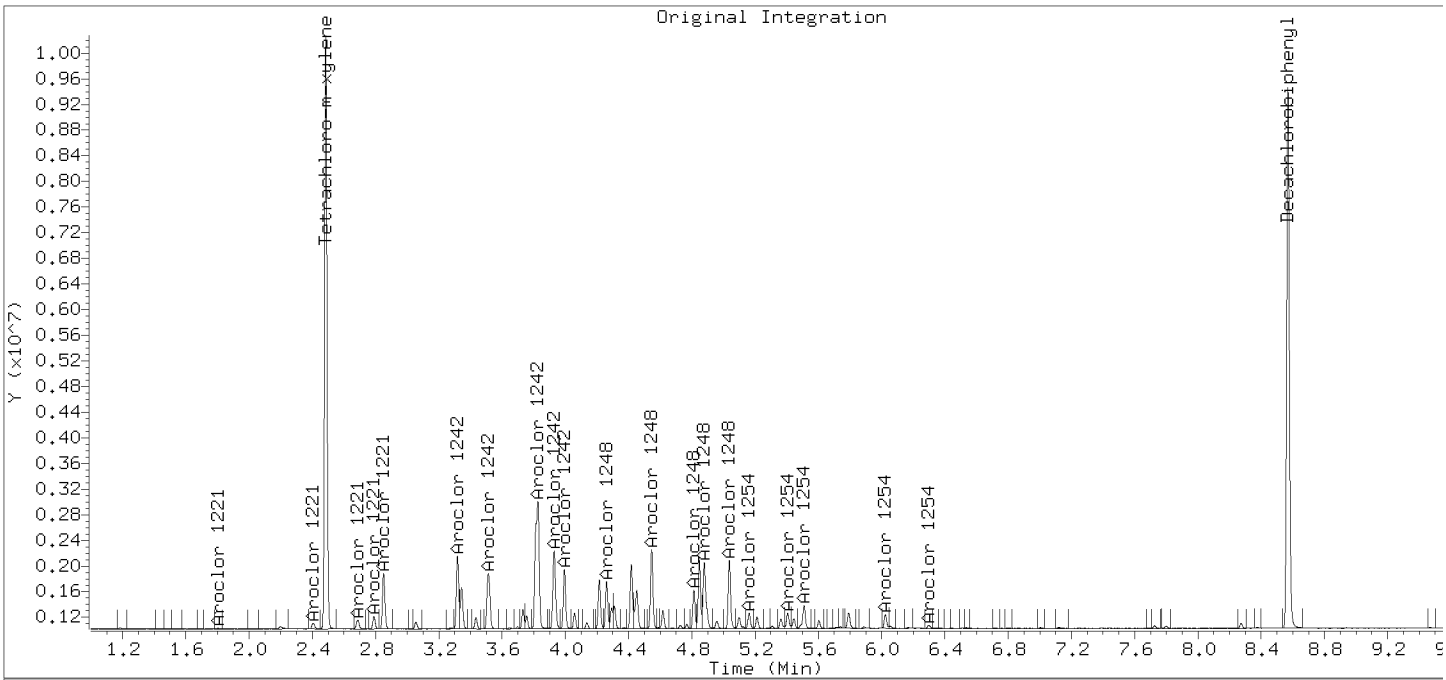
Operator: BLM

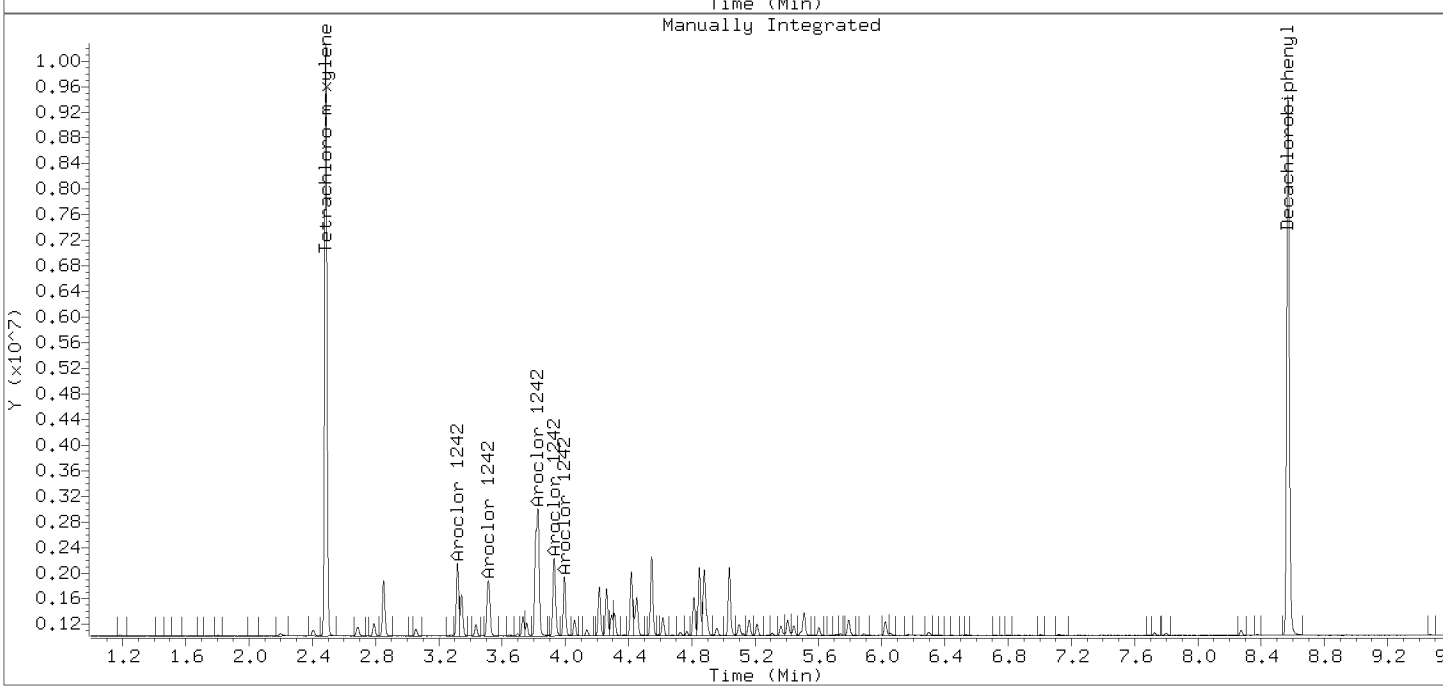
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 14:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662164





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1232	941907	0	
Aroclor 1232	941907	0	
Aroclor 1232	941907	0	
Aroclor 1232	941907	0	

Aroclor 1232	941907	0	
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9614397	9614397	
Decachlorobiphenyl	9967952	9967952	

==========

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

Date Received:

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662965

Date Analyzed: 03/27/2018 15:30

Lab File ID: 032718.B\032718010.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\032718.b\032718010.D
Lab Smp Id: 1662965 Client Smp ID: MB
Inj Date : 27-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662965,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	18755	14198	0.757	0.10		
1.537	11052	7162	0.648	0.06		
1.681	11102	8319	0.749	0.06		
2.199	40143	28158	0.701	0.22		
2.485	8703514	8397895	0.965	47.79	$ 2 Tetrachloro-m-xylene	
2.785	18647	16239	0.871	0.10		
2.861	19277	14268	0.740	0.10		
6.349	9927	6605	0.665	0.05		
7.122	25370	16954	0.668	0.13		
7.249	12227	10854	0.888	0.06		
7.691	12109	9692	0.800	0.06		
7.728	48508	41144	0.848	0.26		
7.801	49027	33809	0.690	0.26		
8.274	80519	67961	0.844	0.44		
8.379	19116	14234	0.745	0.10		
8.570	9085196	7938167	0.874	49.97	$ 12 Decachlorobiphenyl	
8.943	12701	10519	0.828	0.06		
9.466	17004	11535	0.678	0.09		
9.959	16424	13251	0.807	0.09		
	18210618	16660964		100.000		

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718010.D
Lab Smp Id: 1662965 Client Smp ID: MB
Inj Date : 27-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662965,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	8703514	0.07059	35			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

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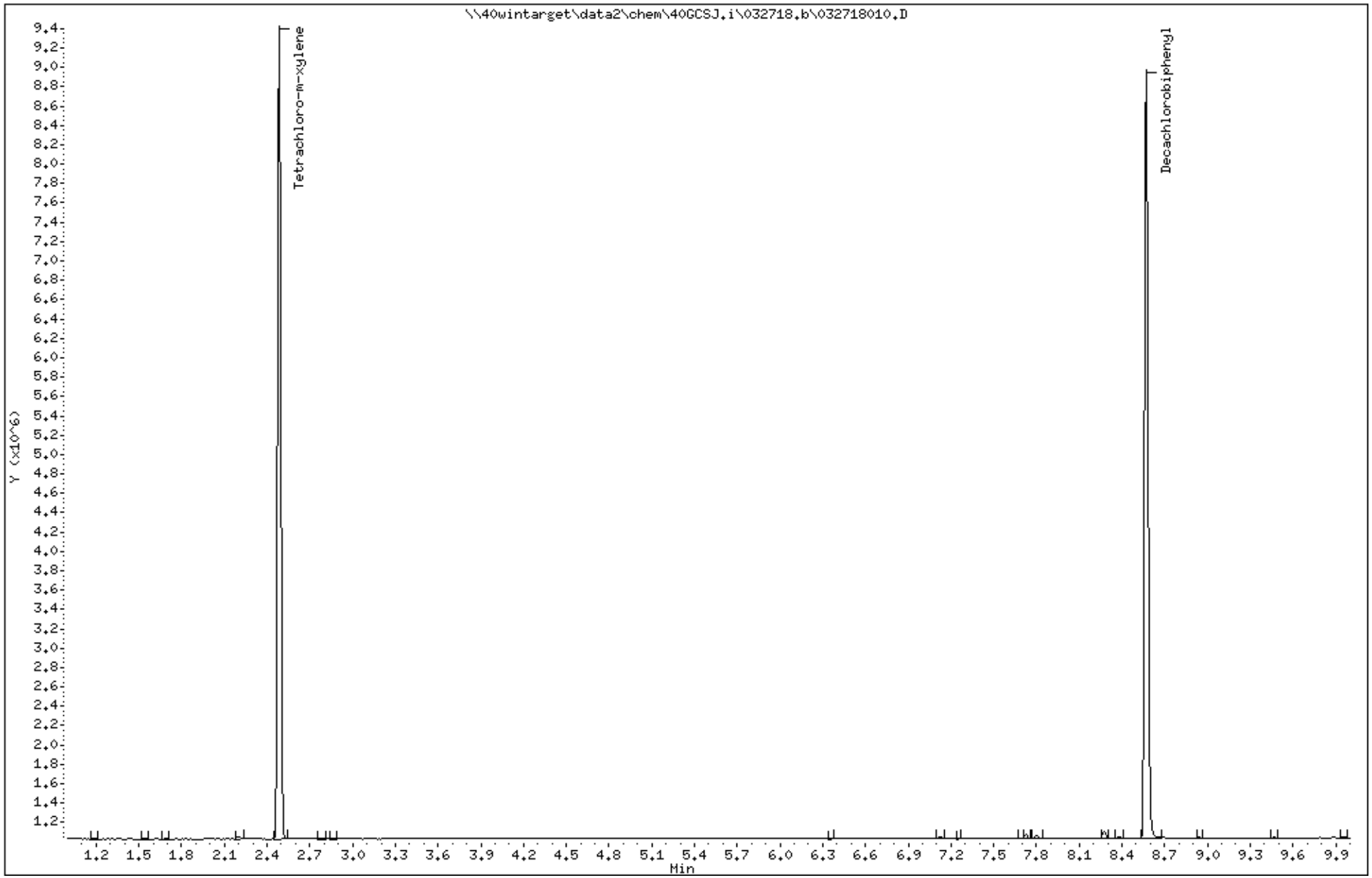
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9085196	0.08292		41		

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718010.D
Date : 27-MAR-2018 15:30
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1662965,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 15:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662965

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	8703514	8703514	
Decachlorobiphenyl	9085196	9085196	

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

Date Received:

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662966

Date Analyzed: 03/27/2018 15:46

Lab File ID: 032718.B\032718011.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)	259	
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\032718.b\032718011.D
Lab Smp Id: 1662966 Client Smp ID: LCS
Inj Date : 27-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662966,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	17866	12084	0.676	0.03		
1.431	11779	9255	0.786	0.02		
1.537	10304	8434	0.819	0.02		
1.802	15786	13020	0.825	0.03		
2.013	15127	10651	0.704	0.03		
2.198	15515	15176	0.978	0.03		
2.405	124787	96192	0.771	0.25		
2.485	10365317	9877686	0.953	21.90	$ 2 Tetrachloro-m-xylene	
2.687	192298	156285	0.813	0.39		
2.790	232644	212902	0.915	0.48		
2.851	1026328	938709	0.915	2.13		
3.055	134200	118080	0.880	0.27		
3.279	24908	20780	0.834	0.05		
3.318	1311314	1212211	0.924	2.72	3 Aroclor 1242	BA
3.344	746854	694287	0.930	1.55		
3.435	213506	187723	0.879	0.44		
3.515	1298368	922167	0.710	2.69	3 Aroclor 1242	BA
3.697	36365	35413	0.974	0.07		
3.732	338080	331083	0.979	0.70		
3.756	216572	208632	0.963	0.45		
3.826	3692663	2161284	0.585	7.67	3 Aroclor 1242	BA
3.930	1590790	1322186	0.831	3.30	3 Aroclor 1242	BA
3.995	1049191	994305	0.948	2.18	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	290550	263193	0.906	0.60	
4.136	116869	105302	0.901	0.24	
4.215	879641	827344	0.941	1.82	
4.262	830723	788493	0.949	1.72	
4.293	330851	345867	1.045	0.68	
4.311	424558	383237	0.903	0.88	
4.371	24868	20550	0.826	0.05	
4.417	1178236	1076292	0.913	2.44	
4.452	853461	643258	0.754	1.77	
4.546	1454388	1331060	0.915	3.02	
4.617	338932	297502	0.878	0.70	
4.677	22672	19296	0.851	0.04	
4.727	69653	61302	0.880	0.14	
4.768	79673	74304	0.933	0.16	
4.813	660406	637793	0.966	1.37	
4.848	1167843	1087416	0.931	2.42	
4.878	1514379	1092439	0.721	3.14	
4.957	165418	129104	0.780	0.34	
5.037	1233635	1100103	0.892	2.56	
5.098	259011	195240	0.754	0.53	
5.163	298578	256287	0.858	0.62	
5.213	218526	187061	0.856	0.45	
5.283	18286	17345	0.949	0.03	
5.308	54099	42827	0.792	0.11	
5.362	189426	156825	0.828	0.39	
5.406	304585	266428	0.875	0.63	
5.445	197202	169482	0.859	0.40	
5.510	505580	378209	0.748	1.05	
5.604	156635	131132	0.837	0.32	
5.676	17107	14146	0.827	0.03	
5.716	30561	23375	0.765	0.06	
5.742	36610	35832	0.979	0.07	
5.794	337234	243883	0.723	0.70	
5.889	46740	30018	0.642	0.09	
6.024	256346	219680	0.857	0.53	
6.056	55130	42272	0.767	0.11	
6.170	25212	17891	0.710	0.05	
6.300	63829	53914	0.845	0.13	
6.333	16442	14020	0.853	0.03	
6.372	12975	11501	0.886	0.02	
6.537	14437	14837	1.028	0.03	
6.799	15491	12492	0.806	0.03	
7.005	18444	14331	0.777	0.03	
7.121	26010	17121	0.658	0.05	
7.250	16379	9773	0.597	0.03	
7.388	15837	9100	0.575	0.03	
7.692	14365	12065	0.840	0.02	
7.728	55367	45799	0.827	0.11	
7.799	47588	36284	0.762	0.09	
8.275	86449	77207	0.893	0.17	
8.380	18632	12626	0.678	0.03	
8.571	10326435	8669348	0.840	21.46	$ 12 Decachlorobiphenyl
9.467	21939	11687	0.533	0.04	
9.958	19752	11917	0.603	0.04	
	48114553	41304355		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718011.D
Lab Smp Id: 1662966 Client Smp ID: LCS
Inj Date : 27-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662966,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10365317	0.08407	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1311314	0.51765	260	0.00- 20.00	100.00(M)	BA
3.515	3.513	0.002	1298367	0.51522	260	0.00- 20.00	99.01	BA
3.826	3.827	-0.001	3692662	0.51889	260	0.00- 20.00	281.60	BA
3.929	3.929	0.000	1590790	0.52302	260	0.00- 20.00	121.31	BA
3.994	3.995	-0.001	1049191	0.51236	260	0.00- 20.00	80.01	BA
Average of Peak Concentrations =					260			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10326434	0.09425	47	

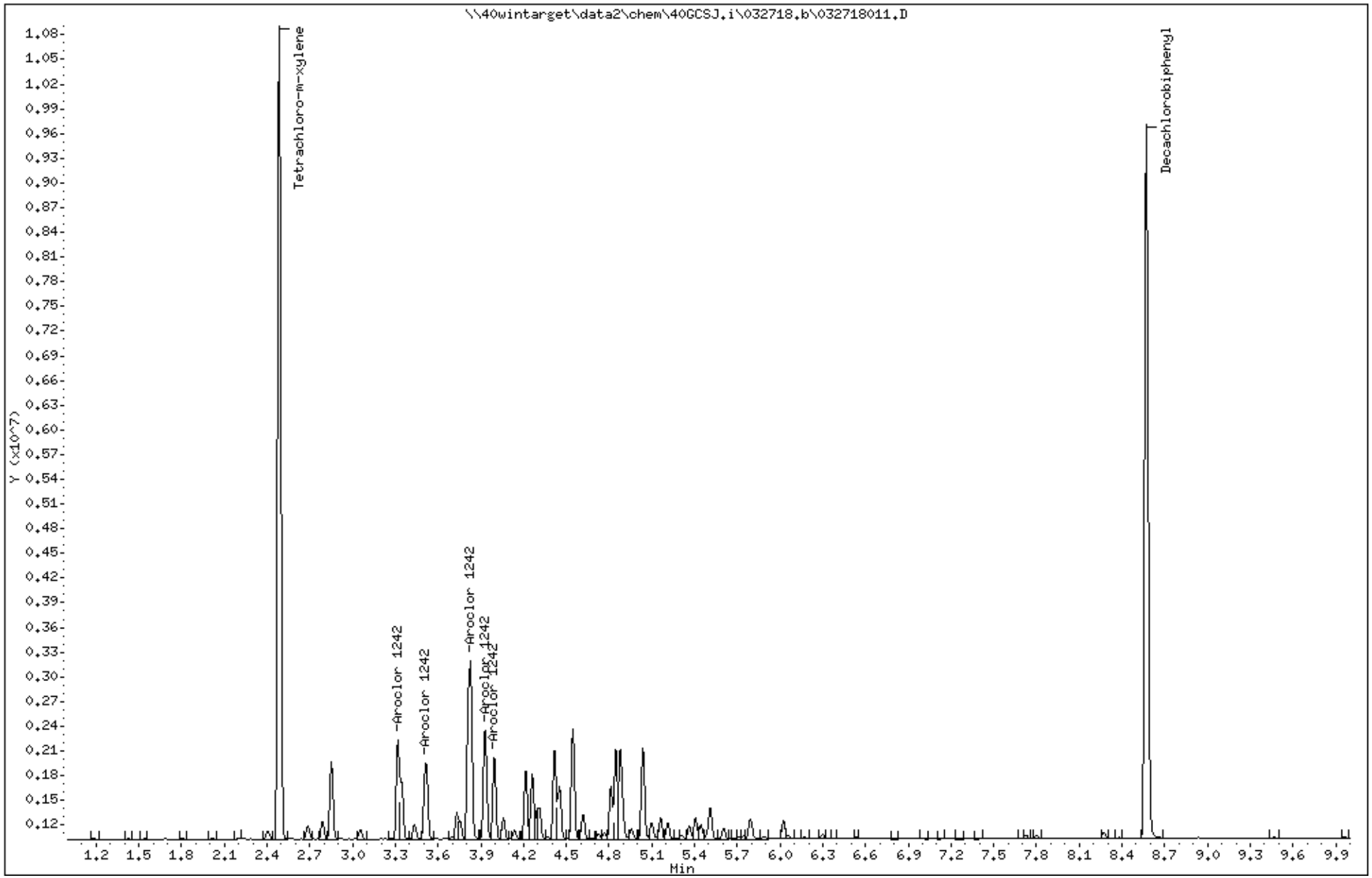
QC Flag Legend

M - Compound response manually integrated.

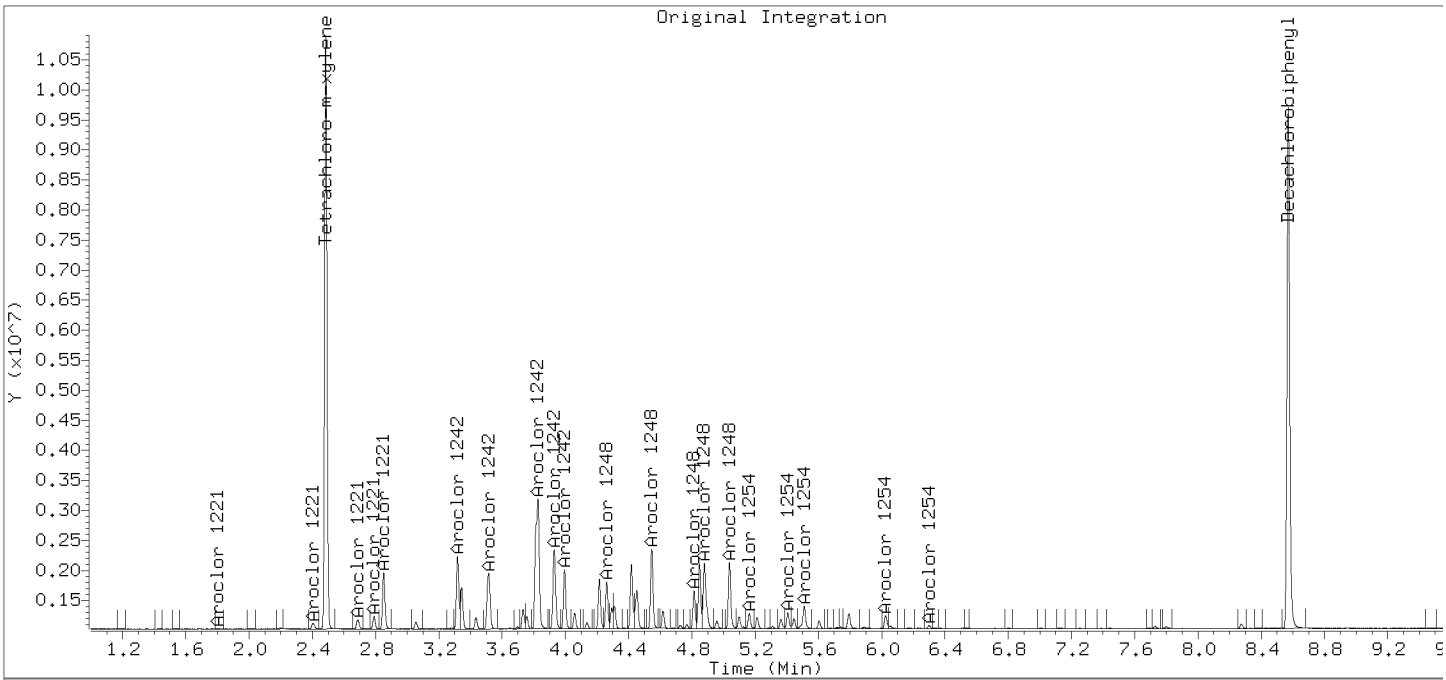
Review Codes Legend

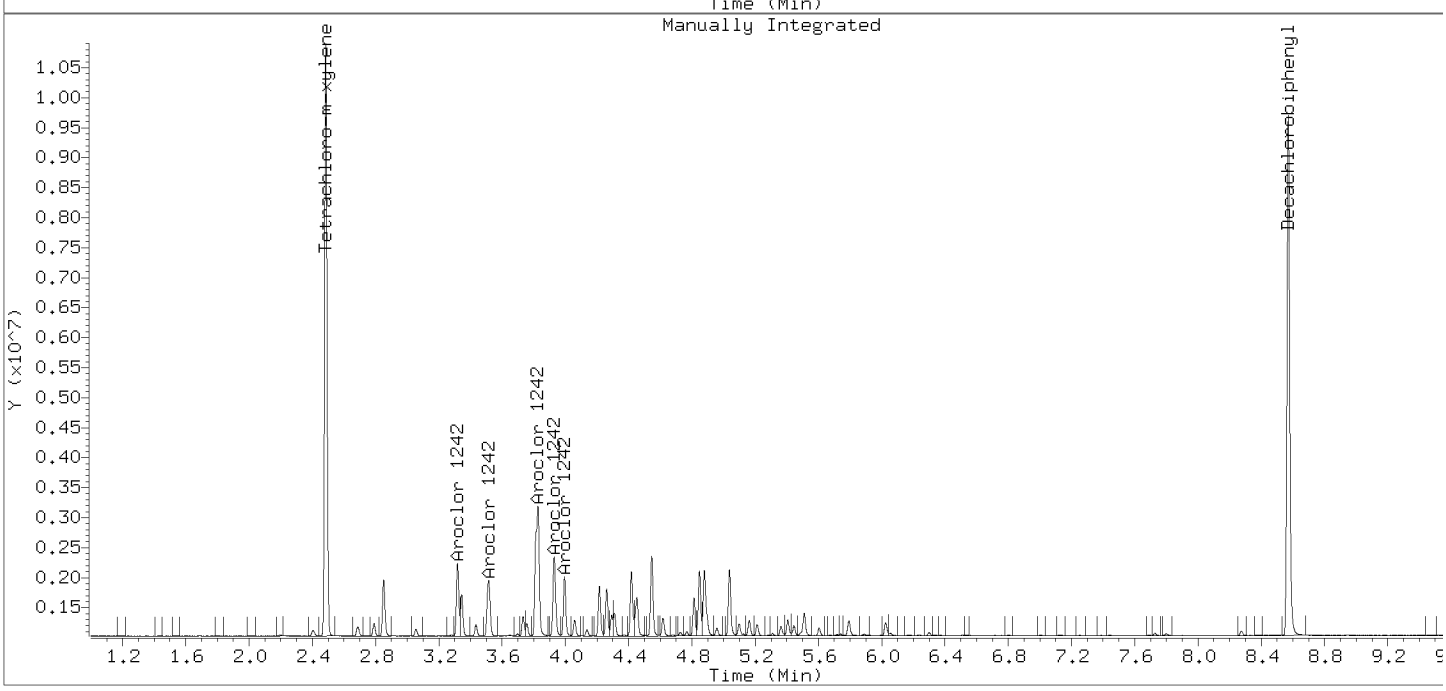
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718011.D
Date : 27-MAR-2018 15:46
Client ID: LCS
Instrument: 40GCSJ.i
Sample Info: 1662966,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 15:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662966





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	

Aroclor 1232	1010824	0	
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10365317	10365317	
Decachlorobiphenyl	10326434	10326434	

==========

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

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662968

Date Analyzed: 03/30/2018 16:19

Lab File ID: 033018.B\033018006.D

Initial wt/vol: 9.965 g Final wt/vol: 5 mL Dilution: 40

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<458	U
11104-28-2	PCB-1221 (Aroclor 1221)	4040	
11141-16-5	PCB-1232 (Aroclor 1232)	<458	U
53469-21-9	PCB-1242 (Aroclor 1242)	<458	U
12672-29-6	PCB-1248 (Aroclor 1248)	736	J
11097-69-1	PCB-1254 (Aroclor 1254)	471	J
11096-82-5	PCB-1260 (Aroclor 1260)	<458	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018006.D
Lab Smp Id: 1662968 Client Smp ID: ND1-170613-01-BB-01
Inj Date : 30-MAR-2018 16:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662968 x40,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: MS
Dil Factor: 40.00000
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	40.000	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	9.965	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.186	10274	9854	0.959	0.15			
1.805	68922	54081	0.785	1.01		1 Aroclor 1221	BA
2.005	14121	8194	0.580	0.20			
2.411	487434	375114	0.770	7.63		1 Aroclor 1221	BA
2.484	265614	245934	0.926	3.91	$	2 Tetrachloro-m-xylene	BA
2.682	18976	13952	0.735	0.27		1 Aroclor 1221	BA
2.793	19327	11797	0.610	0.28		1 Aroclor 1221	BA
2.850	63611	57983	0.912	0.93		1 Aroclor 1221	BA
3.056	155746	138031	0.886	2.29			
3.319	54247	48315	0.891	0.80		3 Aroclor 1242	BA
3.345	50662	45062	0.889	0.74			
3.433	160521	143860	0.896	2.36			
3.518	90012	62793	0.698	1.32		3 Aroclor 1242	BA
3.645	24627	13609	0.553	0.36			
3.734	37574	30260	0.805	0.55			
3.813	152061	83830	0.551	2.24		3 Aroclor 1242	BA
3.932	68604	46757	0.682	1.01		3 Aroclor 1242	BA
3.993	48096	38697	0.805	0.70		3 Aroclor 1242	BA
4.059	19188	15652	0.816	0.28			
4.215	106127	86584	0.816	1.56			
4.261	108922	102670	0.943	1.60		6 Aroclor 1248	BA
4.292	188292	150779	0.801	2.77			
4.418	69712	64113	0.920	1.02			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.454	44608	38615	0.866	0.65	
4.547	117008	102528	0.876	1.72	6 Aroclor 1248
4.588	20129	16765	0.833	0.29	
4.617	22898	15438	0.674	0.33	
4.681	17148	11207	0.654	0.25	
4.734	18300	12208	0.667	0.26	
4.768	35426	31450	0.888	0.52	
4.813	87368	79632	0.911	1.28	6 Aroclor 1248
4.847	54649	50905	0.931	0.80	
4.879	204821	118565	0.579	3.02	6 Aroclor 1248
4.958	40828	26470	0.648	0.60	
5.039	89548	71075	0.794	1.32	6 Aroclor 1248
5.103	107362	89149	0.830	1.58	
5.159	102282	83041	0.812	1.50	7 Aroclor 1254
5.212	79726	61067	0.766	1.17	
5.284	25429	20279	0.797	0.37	
5.309	31952	28462	0.891	0.47	
5.363	40254	33943	0.843	0.59	
5.407	97515	86095	0.883	1.43	7 Aroclor 1254
5.446	59342	48592	0.819	0.87	
5.479	17718	16763	0.946	0.26	
5.510	166440	138664	0.833	2.45	7 Aroclor 1254
5.603	30703	22802	0.743	0.45	
5.674	87186	79487	0.912	1.28	
5.710	43084	37093	0.861	0.63	
5.744	68124	48975	0.719	1.00	
5.790	336883	247843	0.736	4.97	
5.885	43972	27178	0.618	0.64	
5.932	42139	31838	0.756	0.62	
5.993	104812	92347	0.881	1.54	
6.027	147251	117475	0.798	2.17	7 Aroclor 1254
6.057	54042	44979	0.832	0.79	
6.168	76908	46336	0.602	1.13	
6.225	57631	30732	0.533	0.85	
6.302	328091	260808	0.795	4.84	8 Aroclor 1260
6.333	37414	36021	0.963	0.55	
6.373	29809	16757	0.562	0.43	
6.432	61991	49045	0.791	0.91	
6.509	171203	158711	0.927	2.52	
6.537	78548	48779	0.621	1.15	
6.605	19063	14013	0.735	0.28	
6.662	16491	12481	0.757	0.24	
6.719	55338	42450	0.767	0.81	
6.759	61077	52624	0.862	0.90	
6.801	57840	48808	0.844	0.85	
6.838	32125	23398	0.728	0.47	
6.943	27974	22140	0.791	0.41	
7.006	136786	123206	0.901	2.01	8 Aroclor 1260
7.030	14496	15471	1.067	0.21	
7.253	66088	58707	0.888	0.97	8 Aroclor 1260
7.283	25177	20126	0.799	0.37	
7.387	77625	65242	0.840	1.14	
7.443	81415	62849	0.772	1.20	8 Aroclor 1260
7.690	24264	18424	0.759	0.35	
7.727	26411	20772	0.786	0.38	
7.901	50395	41416	0.822	0.74	8 Aroclor 1260
8.276	45700	37831	0.828	0.67	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.377	11939	8900	0.745	0.17	
8.571	293927	245583	0.836	4.33	$ 12 Decachlorobiphenyl
8.942	24628	13613	0.553	0.36	
9.468	35853	16433	0.458	0.52	
9.959	30081	18777	0.624	0.44	
	6777905	5409304		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018006.D
Lab Smp Id: 1662968 Client Smp ID: ND1-170613-01-BB-01
Inj Date : 30-MAR-2018 16:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662968 x40,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: MS
Dil Factor: 40.00000
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	40.000	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	9.965	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	68921	0.06619	1300	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	487433	0.88973	18000	0.00- 20.00	707.23	BA
2.681	2.688	-0.007	18976	0.01372	280	0.00- 20.00	27.53	BA
2.795	2.789	0.006	19326	0.01748	350	0.00- 20.00	28.04	BA
2.849	2.851	-0.002	63611	0.01954	390	0.00- 20.00	92.30	BA
Average of Peak Concentrations =					4000			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	265614	0.00215	43		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA

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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	108922	0.04649	930	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	117008	0.02819	560	0.00- 20.00	107.42	BA
4.813	4.812	0.001	87368	0.04304	860	0.00- 20.00	80.21	BA
4.879	4.879	0.000	204821	0.04066	820	0.00- 20.00	188.04	BA
5.038	5.038	0.000	89548	0.02495	500	0.00- 20.00	82.21	BA
Average of Peak Concentrations =					740			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	102282	0.01954	390	0.00- 20.00	100.00(M)	CO
5.407	5.408	-0.001	97514	0.02267	460	0.00- 20.00	95.34	CO
5.510	5.510	0.000	166439	0.02143	430	0.00- 20.00	162.73	CO
6.027	6.027	0.000	147250	0.03024	610	0.00- 20.00	143.96	CO
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	CO
Average of Peak Concentrations =					470			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	293926	0.00268	54			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018006.D

Date : 30-MAR-2018 16:19

Client ID: ND1-170613-01-BB-01

Instrument: 40GCSJ.i

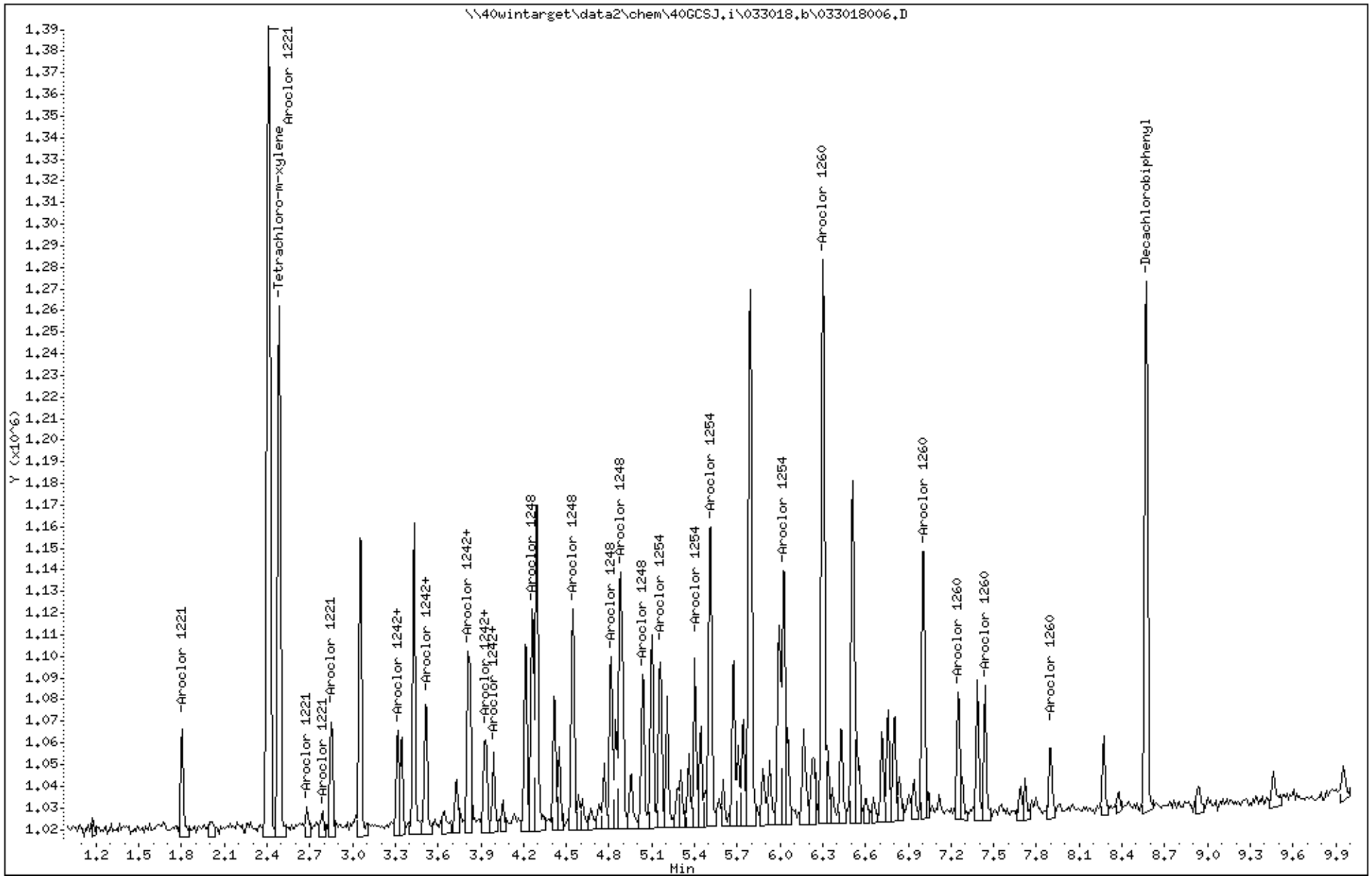
Sample Info: 1662968 x40,

Volume Injected (uL): 1.0

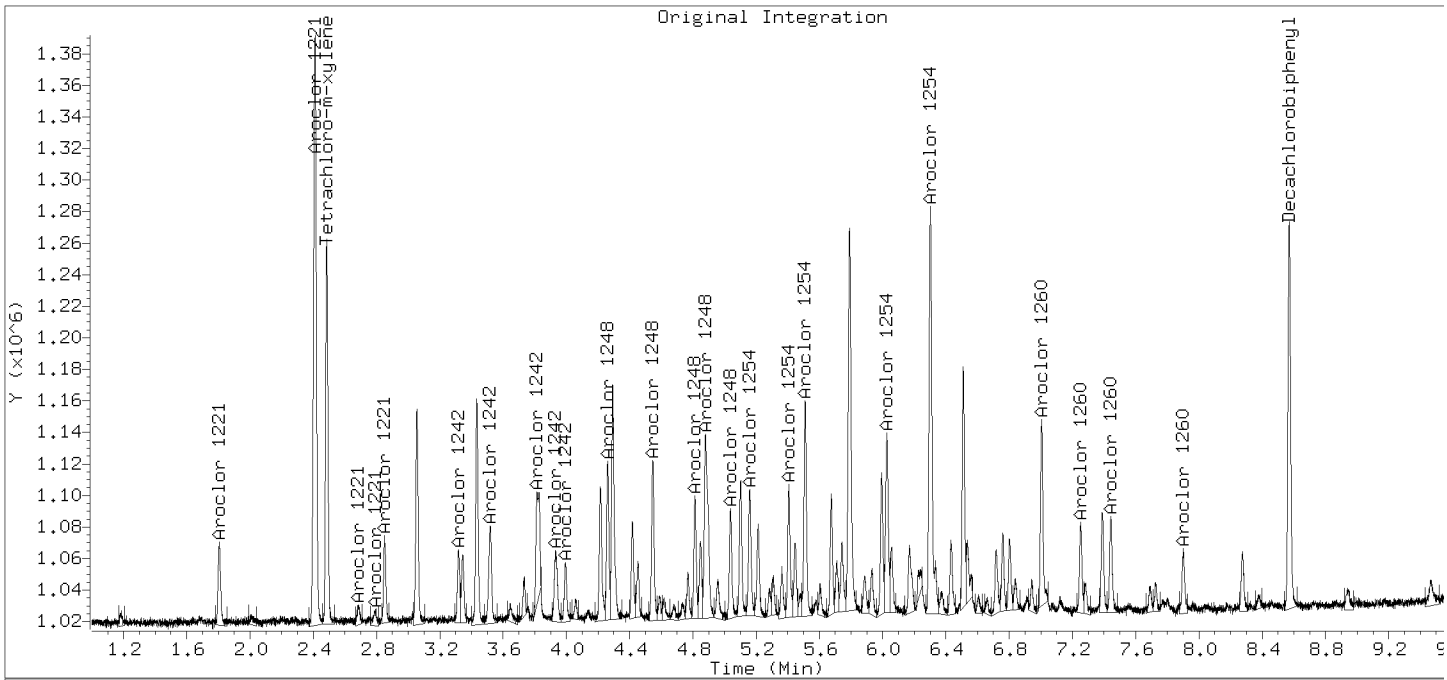
Operator: BLM

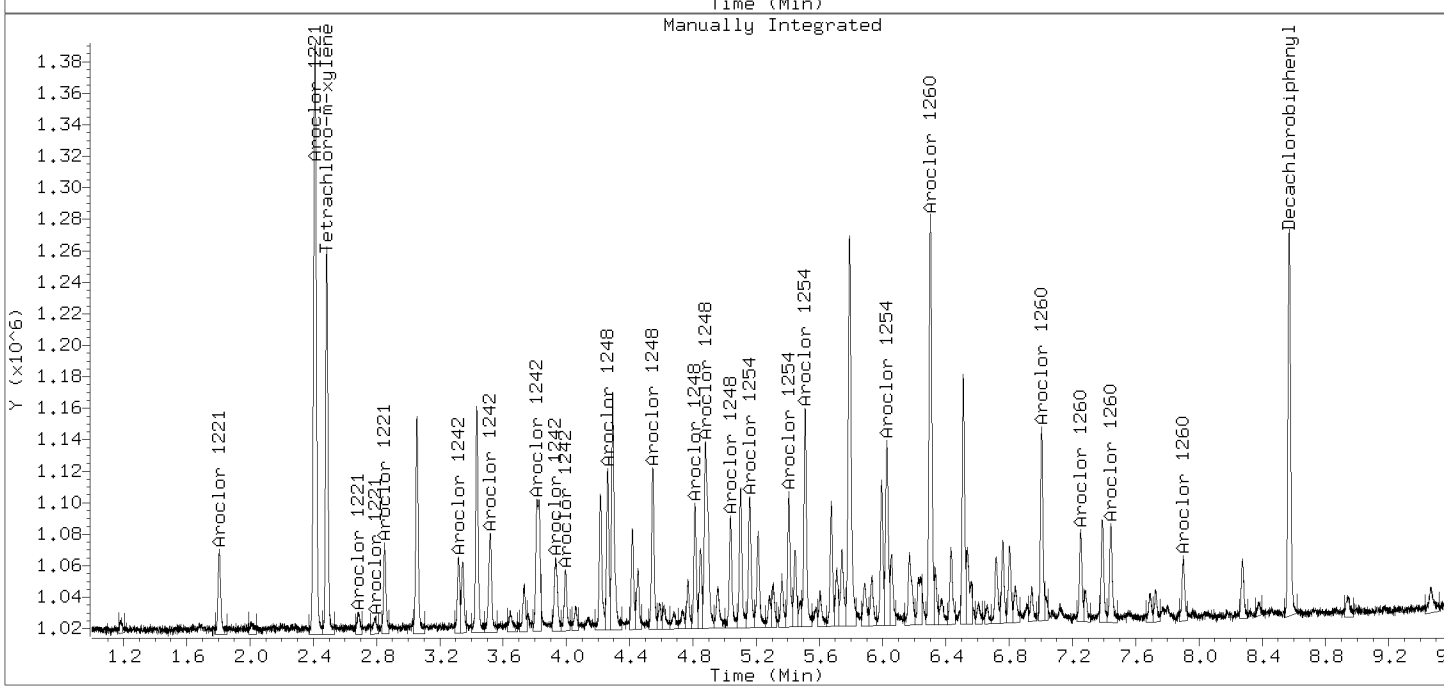
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 16:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662968





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	62937	68921	BA
Aroclor 1221	62937	68921	BA
Aroclor 1221	62937	68921	BA
Aroclor 1221	62937	68921	BA
Aroclor 1221	62937	68921	BA
Aroclor 1232	56663	0	
Aroclor 1232	56663	0	
Aroclor 1232	56663	0	
Aroclor 1232	56663	0	

Aroclor 1232	56663	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	104805	108922	BA
Aroclor 1248	104805	108922	BA
Aroclor 1248	104805	108922	BA
Aroclor 1248	104805	108922	BA
Aroclor 1248	104805	108922	BA
Aroclor 1254	92897	102282	CO
Aroclor 1254	92897	102282	CO
Aroclor 1254	92897	102282	CO
Aroclor 1254	92897	102282	CO
Aroclor 1254	92897	102282	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	256210	265614	BA
Decachlorobiphenyl	293926	293926	

==========

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

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151616

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662969

Date Analyzed: 03/28/2018 15:59

Lab File ID: 032818.B\032818011.D

Initial wt/vol: 9.9982 g Final wt/vol: 5 mL Dilution: 30

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<342	U
11104-28-2	PCB-1221 (Aroclor 1221)	3480	
11141-16-5	PCB-1232 (Aroclor 1232)	<342	U
53469-21-9	PCB-1242 (Aroclor 1242)	<342	U
12672-29-6	PCB-1248 (Aroclor 1248)	420	J
11097-69-1	PCB-1254 (Aroclor 1254)	<342	U
11096-82-5	PCB-1260 (Aroclor 1260)	<342	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818011.D
Lab Smp Id: 1662969 Client Smp ID: ND1-170613-01-BB-01
Inj Date : 28-MAR-2018 15:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662969 x30,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: FIELDDUP
Dil Factor: 30.00000
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	30.000	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
1.806	66488	50864	0.765	1.12		1 Aroclor 1221	BA
2.412	461698	347580	0.753	8.23		1 Aroclor 1221	BA
2.485	325624	285706	0.877	5.53	$	2 Tetrachloro-m-xylene	BA
2.688	12675	9779	0.771	0.21		1 Aroclor 1221	BA
2.793	1571	6433	4.096	0.02			
2.852	39030	31243	0.800	0.66		1 Aroclor 1221	BA
3.055	138457	124404	0.899	2.35			
3.319	18605	16517	0.888	0.31		3 Aroclor 1242	BA
3.345	33987	27905	0.821	0.57			
3.434	147675	132786	0.899	2.50			
3.520	53322	43171	0.810	0.90		3 Aroclor 1242	BA
3.647	16564	12665	0.765	0.28			
3.730	28251	21288	0.754	0.47			
3.814	71495	41622	0.582	1.21		3 Aroclor 1242	BA
3.941	34803	24873	0.715	0.59		3 Aroclor 1242	BA
3.995	28692	17183	0.599	0.48		3 Aroclor 1242	BA
4.056	13317	11372	0.854	0.22			
4.214	82167	66580	0.810	1.39			
4.262	85147	78610	0.923	1.44		6 Aroclor 1248	BA
4.293	157665	133161	0.845	2.67			
4.418	43676	35806	0.820	0.74			
4.453	26507	21390	0.807	0.45			
4.545	79768	68008	0.853	1.35		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.590	19359	17468	0.902	0.32	
4.766	33366	29423	0.882	0.56	
4.813	71226	61632	0.865	1.20	6 Aroclor 1248
4.846	26140	25286	0.967	0.44	
4.879	164009	90000	0.549	2.78	6 Aroclor 1248
4.957	31541	23177	0.735	0.53	
5.039	59940	47551	0.793	1.01	6 Aroclor 1248
5.101	91900	81173	0.883	1.56	
5.159	90551	71858	0.794	1.53	7 Aroclor 1254
5.211	67708	53432	0.789	1.15	
5.284	24606	20061	0.815	0.41	
5.308	31162	26644	0.855	0.52	
5.360	33113	25786	0.779	0.56	
5.408	90455	74217	0.820	1.53	7 Aroclor 1254
5.446	54688	45320	0.829	0.92	
5.482	14746	15499	1.051	0.25	
5.510	151426	120283	0.794	2.57	7 Aroclor 1254
5.576	14418	12394	0.860	0.24	
5.603	30844	18588	0.603	0.52	
5.675	79996	74434	0.930	1.35	
5.711	44971	34052	0.757	0.76	
5.744	61088	46348	0.759	1.03	
5.790	321711	226621	0.704	5.46	
5.886	44520	27513	0.618	0.75	
5.932	42415	30219	0.712	0.72	
5.994	96179	83361	0.867	1.63	
6.027	138974	110762	0.797	2.36	7 Aroclor 1254
6.054	52055	40059	0.770	0.88	
6.169	70148	41143	0.587	1.19	
6.230	53411	31647	0.593	0.90	
6.302	307942	241398	0.784	5.23	8 Aroclor 1260
6.332	26080	32322	1.239	0.44	
6.434	59935	45939	0.766	1.01	
6.509	165478	140372	0.848	2.81	
6.537	44836	44900	1.001	0.76	
6.562	32524	26361	0.811	0.55	
6.610	22633	14952	0.661	0.38	
6.718	47501	40937	0.862	0.80	
6.757	56700	48982	0.864	0.96	
6.803	54757	45926	0.839	0.93	
6.837	26148	20562	0.786	0.44	
6.944	23502	18931	0.805	0.39	
7.006	127513	111346	0.873	2.16	8 Aroclor 1260
7.033	12953	16937	1.308	0.22	
7.250	64014	53101	0.830	1.08	8 Aroclor 1260
7.278	20801	19334	0.929	0.35	
7.389	74609	56226	0.754	1.26	
7.444	71440	58014	0.812	1.21	8 Aroclor 1260
7.691	21355	17902	0.838	0.36	
7.727	21960	17377	0.791	0.37	
7.801	17241	10438	0.605	0.29	
7.902	50625	35753	0.706	0.85	8 Aroclor 1260
8.273	47043	34620	0.736	0.79	
8.380	12149	10430	0.859	0.20	
8.571	391798	335023	0.855	6.65	$ 12 Decachlorobiphenyl
8.940	11452	8030	0.701	0.19	
	5886838	4721010		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818011.D
Lab Smp Id: 1662969 Client Smp ID: ND1-170613-01-BB-01
Inj Date : 28-MAR-2018 15:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662969 x30,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: FIELDDUP
Dil Factor: 30.00000
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	30.000	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			
1.805	1.804	0.001	66487	0.06385	960	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	461697	0.84275	13000	0.00- 20.00	694.42	BA
2.688	2.688	0.000	12675	0.00916	140	0.00- 20.00	19.06	BA
2.789	2.789	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
2.851	2.851	0.000	39029	0.01199	180	0.00- 20.00	58.70	BA
Average of Peak Concentrations =					3500			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	325624	0.00264	40		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA

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			
Qualifier signal(s) failed ratio test.								BA
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.262	4.261	0.001	85146	0.03634	540	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	79768	0.01922	290	0.00- 20.00	93.68	BA
4.812	4.812	0.000	71226	0.03509	530	0.00- 20.00	83.65	BA
4.878	4.879	-0.001	164009	0.03256	490	0.00- 20.00	192.62	BA
5.038	5.038	0.000	59940	0.01670	250	0.00- 20.00	70.40	BA
Average of Peak Concentrations =					420			
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								CO
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	391797	0.00358	54			

QC Flag Legend

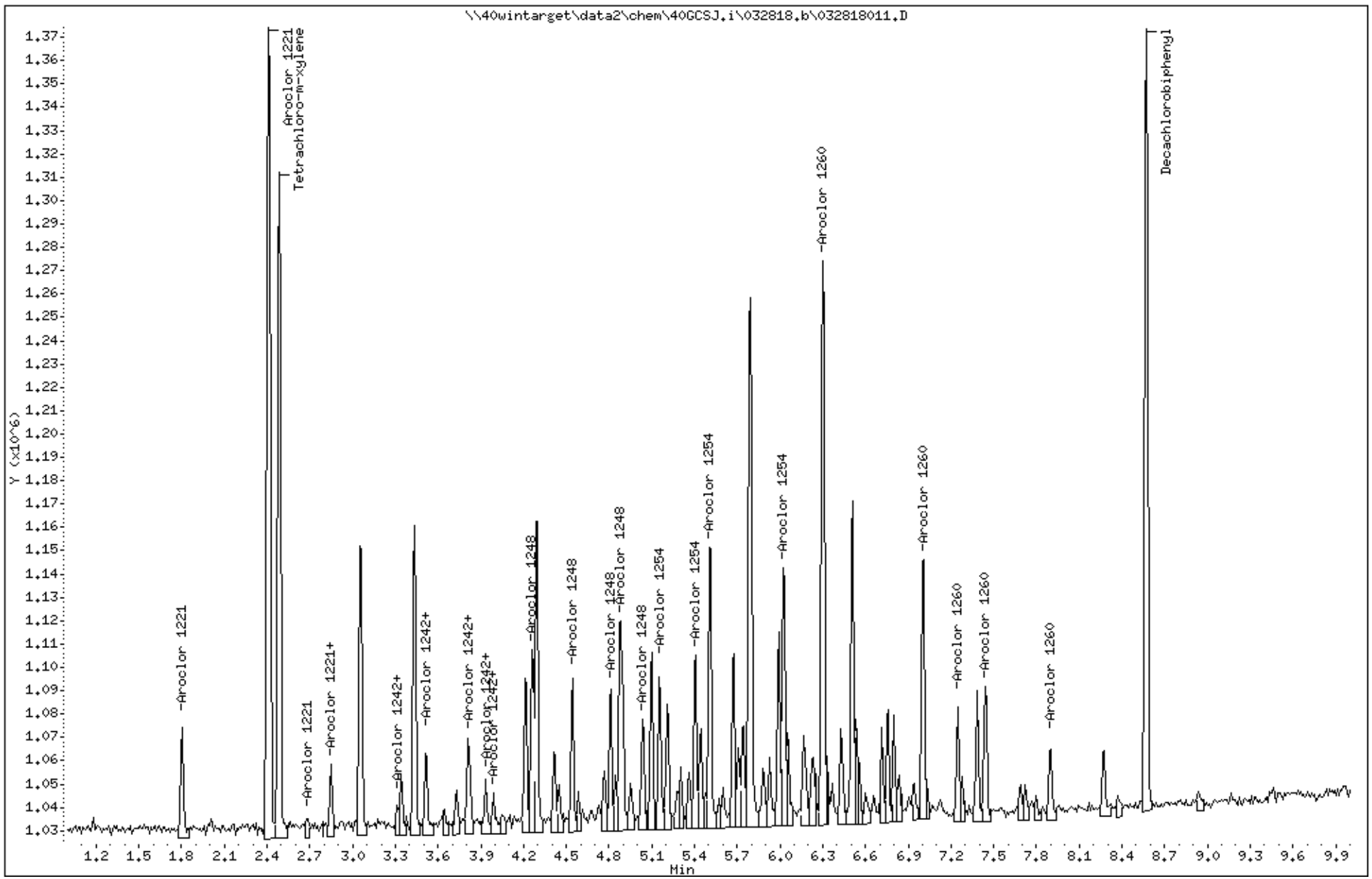
M - Compound response manually integrated.

Review Codes Legend

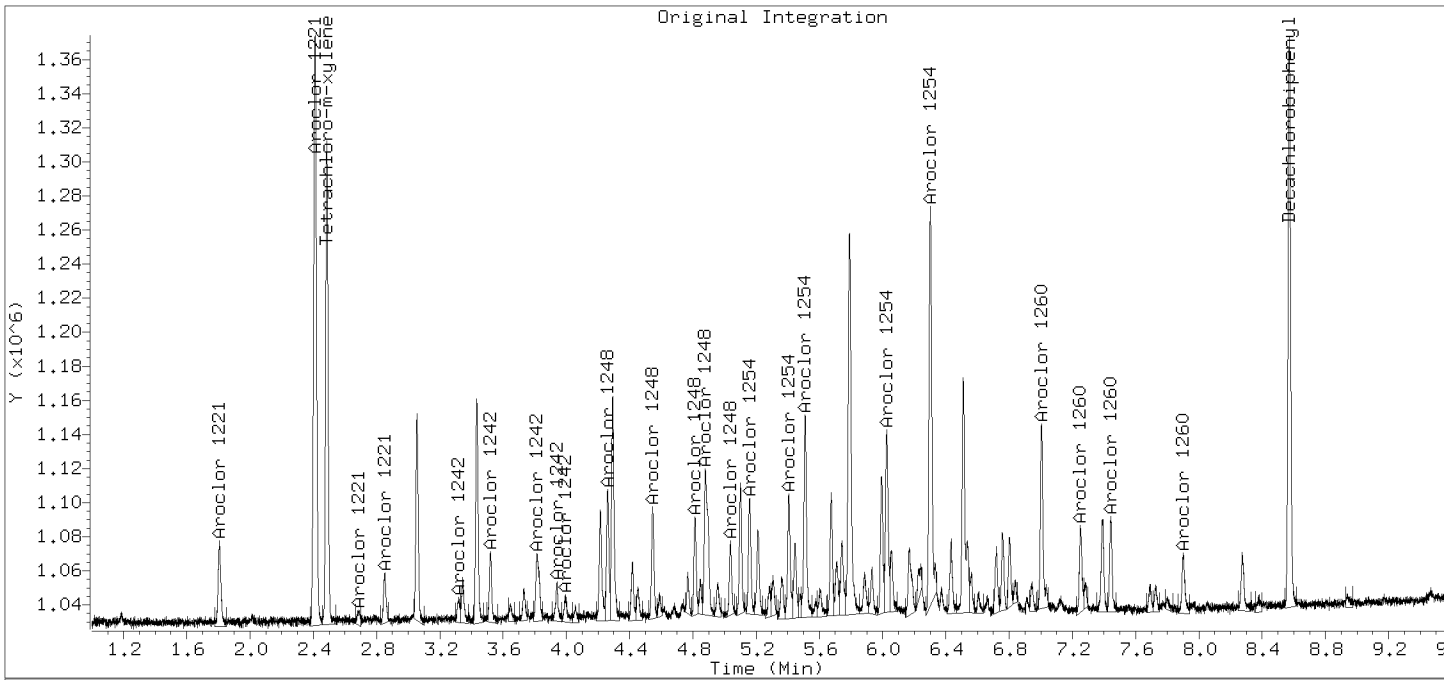
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

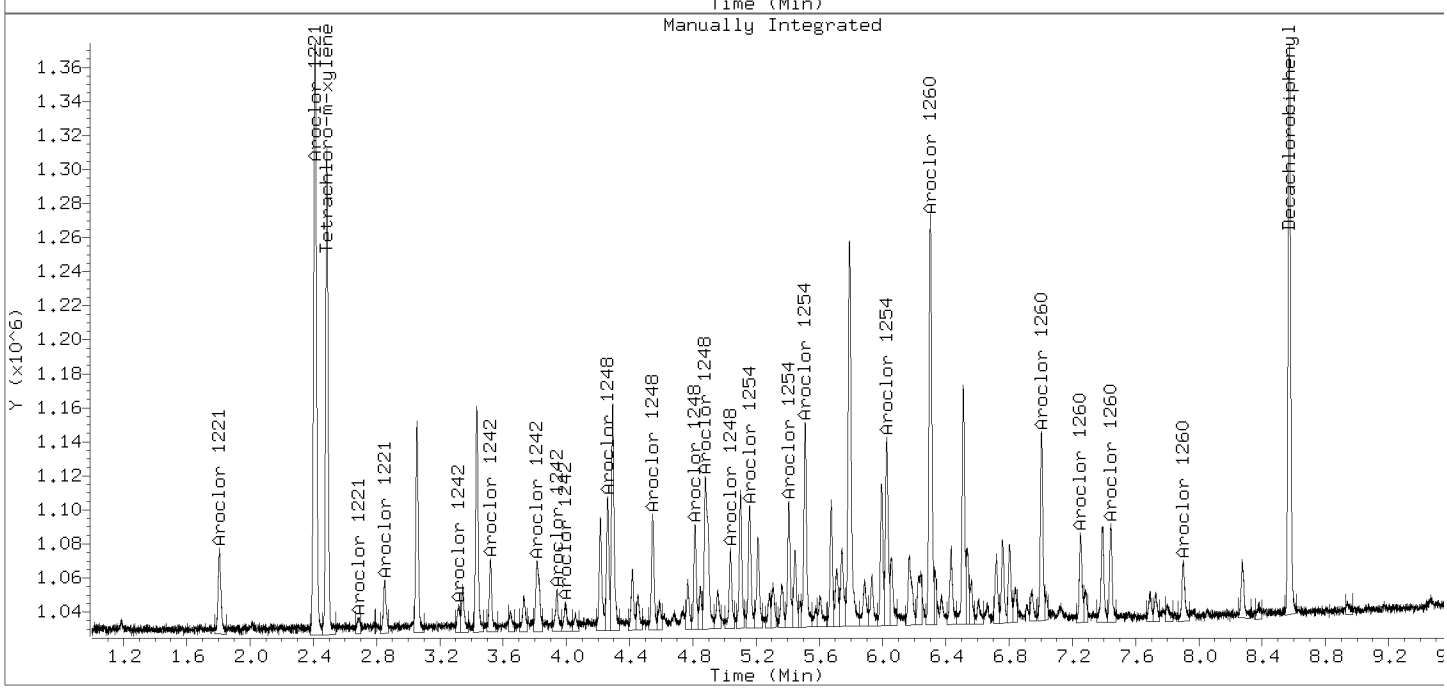
Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818011.D
Date : 28-MAR-2018 15:59
Client ID: ND1-170613-01-BB-01
Sample Info: 1662969 x30,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 28-MAR-2018 15:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662969





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	64608	66487	BA
Aroclor 1221	64608	66487	BA
Aroclor 1221	64608	66487	BA
Aroclor 1221	64608	66487	BA
Aroclor 1221	64608	66487	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
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	81398	85146	BA
Aroclor 1248	81398	85146	BA
Aroclor 1248	81398	85146	BA
Aroclor 1248	81398	85146	BA
Aroclor 1248	81398	85146	BA
Aroclor 1254	76819	0	CO
Aroclor 1254	76819	0	CO
Aroclor 1254	76819	0	CO
Aroclor 1254	76819	0	CO
Aroclor 1254	76819	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	316390	325624	BA
Decachlorobiphenyl	391797	391797	

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Prep Log Report

Batch Information: OEXT 283977 PCB-B

Template Version: F-GB-O-113-Rev.04 (14Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/22/2018 07:22:46:430
Spiked By	AMC	Spiked By Date/Time	03/22/2018 07:22:48:165	Witnessed By	ETB	Witnessed By Date/Time	03/22/2018 07:22:48:165
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191930	Hexane	188917	Sodium Sulfate	190952	Florisil	186910
3620B Date/Initials	03/23/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/23/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 08:42	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	**1662163**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1662164**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151552011**	9.9626	5	3		189973 (.25)	
8082A TNYP	PS	**40151597001**	9.9992	5	3		189973 (.25)	
8082A TNYP	PS	**40151605001**	10.0092	5	3		189973 (.25)	
8082A TNYP	PS	**40151605002**	9.9923	5	3		189973 (.25)	
8082A TNYP	PS	**40151614001**	10.0203	5	3		189973 (.25)	
8082A TNYP	PS	**40151616001**	9.9967	5	3		189973 (.25)	
8082A TNYP	PS	**40151619001**	9.9791	5	3		189973 (.25)	
8082A TNYP	RQS	**40151619002**	10.0233	5	3		189973 (.25)	
8082A TNYP	MS	**1662165**	9.9608	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1662166**	9.9773	5	3		189973 (.25)	
8082A TNYP	PS	**40151619003**	10.0185	5	3		189973 (.25)	
8082A TNYP	PS	**40151619004**	9.9887	5	3		189973 (.25)	
8082A TNYP	PS	**40151800001**	10.0159	5	3		189973 (.25)	
8082A TNYP	PS	**40151800002**	9.968	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151800003**	9.9637	5	3		189973 (.25)	
8082A TNYP	PS	**40151800004**	10.0193	5	3		189973 (.25)	
8082A TNYP	PS	**40151804001**	9.9711	5	3		189973 (.25)	
8082A TNYP	PS	**40151804002**	9.9758	5	3		189973 (.25)	
8082A TNYP	PS	**40151804003**	9.9638	5	3		189973 (.25)	
8082A TNYP	PS	**40151804009**	10.0066	5	3		189973 (.25)	
8082A TNYP	PS	**40151804010**	10.0363	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 284104 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/23/2018 07:10:18:493
Spiked By	AMC	Spiked By Date/Time	03/23/2018 07:10:19:533	Witnessed By	ETB	Witnessed By Date/Time	03/23/2018 07:10:19:533
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192185	Hexane	188917	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	3/27/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	3/27/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/04/2018 12:51	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	**1662965**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1662966**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151613012**	9.978	5	3		189973 (.25)	
8082A TNYP	DUP	**1662967**	9.9887	5	3		189973 (.25)	
8082A TNYP	PS	**40151613013**	9.974	5	3		189973 (.25)	
8082A TNYP	PS	**40151614006**	9.9847	5	3		189973 (.25)	
8082A TNYP	PS	**40151614009**	10.0068	5	3		189973 (.25)	
8082A TNYP	PS	**40151614010**	9.9903	5	3		189973 (.25)	
8082A TNYP	PS	**40151616002**	10.0303	5	3		189973 (.25)	
8082A TNYP	PS	**40151616003**	9.964	5	3		189973 (.25)	
8082A TNYP	PS	**40151616004**	9.9633	5	3		189973 (.25)	
8082A TNYP	PS	**40151616005**	9.9603	5	3		189973 (.25)	
8082A TNYP	PS	**40151616006**	10.0159	5	3		189973 (.25)	
8082A TNYP	PS	**40151616007**	9.9618	5	3		189973 (.25)	
8082A TNYP	PS	**40151616008**	10.0254	5	3		189973 (.25)	
8082A TNYP	PS	**40151616009**	9.9761	5	3		189973 (.25)	

Prep Log Report

40151616

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	RQS	**40151616010**	9.9941	5	3		189973 (.25)	
8082A TNYP	MS	**1662968**	9.965	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1662969**	9.9982	5	3		189973 (.25)	
8082A TNYP	PS	**40151802006**	9.9966	5	3		189973 (.25)	
8082A TNYP	PS	**40151805002**	9.9823	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

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   Sequence Name: C:\msdchem\1\sequence\032318.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\032318\
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  1662163MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1662164LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1662165MS —
     Datafile          --------
     Method            SCREEN2014   BLM 3/23/18
 6) Sample          6  40151552-011 ~~x3~~ x4
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40151597-001 —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151605-001 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40151605-002 x2
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151614-001 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151616-001 —
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151619-001 —
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151619-002P —
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  1662166DUP —
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151619-003 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151619-004 —
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151800-001 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151800-002 —
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151800-003 x2
     Datafile          --------

   Last Modified: Fri Mar 23 10:49:33 2018          Page:  1
```

GE BIOTA

BLM 3/26/18

Continued on Page 26

Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
      Method              SCREEN2014
20) Sample          20    40151800-004 —
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21    40151804-001 x3
      Datafile            --------
      Method              SCREEN2014
22) Sample          22    40151804-002 ~~x2~~ — BLM 3/23/18
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23    40151804-003 x2
      Datafile            --------
      Method              SCREEN2014
24) Sample          24    40151804-009 x3
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25    40151804-010 x5
      Datafile            --------
      Method              SCREEN2014
26) Sample          26    HEXANE
      Datafile            --------
      Method              SCREEN2014
```

Last Modified: Fri Mar 23 10:49:33 2018 Page: 2

BLM 3/26/18

Continued on Page —

Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032718.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\032718\
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  1662965MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1662966LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1662968MS x 2
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151613-012 —
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  1662967DUP —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151613-013 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40151614-006 x 3
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151614-009 x 2
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151614-010 —
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151616-002 x 10
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151616-003 x 3
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151616-004 x 5
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151616-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151616-006 x 10
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151616-007 x 5
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151616-008 x 2
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151616-009 x 5
     Datafile          --------

   Last Modified: Tue Mar 27 09:15:03 2018                Page:  1
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GE BIOTA

BLM 4/3/18

Continued on Page 28

Read and Understood By

Signed 4/3/18 Date

Signed 4-3-18 Date

BLM 3/27/18

	Method		SCREEN2014
20)	Sample	20	40151616-010 ×4 ×2
	Datafile		--------
	Method		SCREEN2014
21)	RearSamp	21	1662969DUP × 2
	Datafile		--------
	Method		SCREEN2014
22)	Sample	22	40151802-006 —
	Datafile		--------
	Method		SCREEN2014
23)	RearSamp	23	40151805-002 —
	Datafile		--------
	Method		SCREEN2014
24)	Sample	24	HEXANE
	Datafile		--------
	Method		SCREEN2014

Last Modified: Tue Mar 27 09:15:03 2018

Page: 2

BLM 4/3/18

Continued on Page —

Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: Dawn Haag Date: 4-3-18

```
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
```

Last Modified: Tue Mar 06 10:58:59 2018 Page: 1

BLM 3/7/18

Continued on Page 5

Read and Understood By

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

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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  2
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BLM 3/7/18

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		

Last Modified: Tue Mar 06 10:58:59 2018

Page: 3

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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  4
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BLM 3/7/18

Continued on Page —

Read and Understood By

Signed: [signature] Date: 3/7/18

Signed: [signature] Date: 3/7/18

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   Sequence Name: C:\msdchem\1\sequence\032318.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\032318\
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          032318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032318003
     Method            GEBIOTA2017
 4) Sample          4  1242-CCV,185544:1,17498,AR124 ok
     Datafile          032318004
     Method            GEBIOTA2017
 5) Sample          5  1242-CCV,185544:1,17498,AR124 ok
     Datafile          032318005
     Method            GEBIOTA2017
 6) Sample          6  1662163,,17567,BIOTA
     Datafile          032318006
     Method            GEBIOTA2017
 7) Sample          7  1662164,,17567,BIOTA
     Datafile          032318007
     Method            GEBIOTA2017
 8) Sample          8  1662165,,17567,BIOTA RS x2
     Datafile          032318008
     Method            GEBIOTA2017
 9) Sample          9  40151552011 x4,,17567,BIOTA
     Datafile          032318009
     Method            GEBIOTA2017
10) Sample         10  40151597001,,17567,BIOTA
     Datafile          032318010
     Method            GEBIOTA2017
11) Sample         11  40151605001,,17567,BIOTA
     Datafile          032318011
     Method            GEBIOTA2017
12) Sample         12  40151605002 x2,,17567,BIOTA
     Datafile          032318012
     Method            GEBIOTA2017
13) Sample         13  40151614001,,17567,BIOTA
     Datafile          032318013
     Method            GEBIOTA2017
14) Sample         14  40151616001,,17567,BIOTA
     Datafile          032318014
     Method            GEBIOTA2017
15) Sample         15  40151619001,,17567,BIOTA
     Datafile          032318015
     Method            GEBIOTA2017
16) Sample         16  1248-CCV,185549:1,17498,AR124 ok
     Datafile          032318016
     Method            GEBIOTA2017
17) Sample         17  1248-CCV,185549:1,17498,AR124 ok
     Datafile          032318017
     Method            GEBIOTA2017
18) Sample         18  40151619002,,17567,BIOTA
     Datafile          032318018
     Method            GEBIOTA2017
19) Sample         19  1662166,,17567,BIOTA
     Datafile          032318019

   Last Modified: Fri Mar 23 12:37:04 2018                  Page:  1
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BLM 3/26/18

Continued on Page 31

Read and Understood By

Bryan Maynard — Signed — 3/26/18 — Date

[illegible] — Signed — 3/26/18 — Date

```
      Method                GEBIOTA2017
20) Sample          20  40151619003,,17567,BIOTA
      Datafile              032318020
      Method                GEBIOTA2017
21) Sample          21  40151619004,,17567,BIOTA
      Datafile              032318021
      Method                GEBIOTA2017
22) Sample          22  40151800001,,17567,BIOTA  RS x 2
      Datafile              032318022
      Method                GEBIOTA2017
23) Sample          23  40151800002,,17567,BIOTA
      Datafile              032318023
      Method                GEBIOTA2017
24) Sample          24  40151800003 x2,,17567,BIOTA  RS x 3
      Datafile              032318024
      Method                GEBIOTA2017
25) Sample          25  40151800004,,17567,BIOTA
      Datafile              032318025
      Method                GEBIOTA2017
26) Sample          26  40151804001 x3,,17567,BIOTA
      Datafile              032318026
      Method                GEBIOTA2017
27) Sample          27  40151804002,,17567,BIOTA
      Datafile              032318027
      Method                GEBIOTA2017
28) Sample          28  1254-CCV,185554:1,17498,AR125  OK
      Datafile              032318028
      Method                GEBIOTA2017
29) Sample          29  1254-CCV,185554:1,17498,AR125  OK
      Datafile              032318029
      Method                GEBIOTA2017
30) Sample          30  40151804003 x2,,17567,BIOTA
      Datafile              032318030
      Method                GEBIOTA2017
31) Sample          31  40151804009 x3,,17567,BIOTA
      Datafile              032318031
      Method                GEBIOTA2017
32) Sample          32  40151804010 x5,,17567,BIOTA
      Datafile              032318032
      Method                GEBIOTA2017
33) Sample          33  1660-CCV,185559:1,17498,AR166  OK
      Datafile              032318033
      Method                GEBIOTA2017
34) Sample          34  1660-CCV,185559:1,17498,AR166  OK
      Datafile              032318034
      Method                GEBIOTA2017
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Screener: 40GCSI 03/23/18

Last Modified: Fri Mar 23 12:37:04 2018

Page: 2

BLM 3/26/18

Continued on Page —

Read and Understood By

Signed 3/26/18 Date

Signed 3/26/18 Date

PROJECT 406CSJ 03/27/18

Notebook No. 4417

Continued from Page —

```
      Sequence Name: C:\msdchem\1\sequence\032718.s
            Comment:
           Operator: BLM
          Data Path: C:\MSDCHEM\1\DATA\032718\
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          032718001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032718002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032718003
     Method            GEBIOTA2017
 4) Sample          4  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718004
     Method            GEBIOTA2017
 5) Sample          5  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718005
     Method            GEBIOTA2017
 6) Sample          6  40151549007 x4,,17523,BIOTA
     Datafile          032718006
     Method            GEBIOTA2017
 7) Sample          7  1662165 x2,,17567,BIOTA
     Datafile          032718007
     Method            GEBIOTA2017
 8) Sample          8  40151800001 x2,,17567,BIOTA
     Datafile          032718008
     Method            GEBIOTA2017
 9) Sample          9  40151800003 x3,,17567,BIOTA
     Datafile          032718009
     Method            GEBIOTA2017
10) Sample         10  1662965,,17575,BIOTA
     Datafile          032718010
     Method            GEBIOTA2017
11) Sample         11  ~~1662965~~,,17575,BIOTA 16629606
     Datafile          032718011
     Method            GEBIOTA2017
12) Sample         12  1662968 x2,,17575,BIOTA RS x30
     Datafile          032718012
     Method            GEBIOTA2017
13) Sample         13  40151613012,,17575,BIOTA
     Datafile          032718013
     Method            GEBIOTA2017
14) Sample         14  1662967,,17575,BIOTA
     Datafile          032718014
     Method            GEBIOTA2017
15) Sample         15  40151613013,,17575,BIOTA
     Datafile          032718015
     Method            GEBIOTA2017
16) Sample         16  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718016
     Method            GEBIOTA2017
17) Sample         17  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718017
     Method            GEBIOTA2017
18) Sample         18  40151614006 x3,,17575,BIOTA
     Datafile          032718018
     Method            GEBIOTA2017
19) Sample         19  40151614009 x2,,17575,BIOTA
     Datafile          032718019

   Last Modified: Tue Mar 27 13:02:35 2018                Page:  1
```

BLM 3/28/18

BLM 4/3/18

Continued on Page 33

Read and Understood By

Signed 4/3/18 Date

Signed 4-3-18 Date

```
      Method          GEBIOTA2017
20) Sample      20  40151614010,,17575,BIOTA RS x2
      Datafile        032718020
      Method          GEBIOTA2017
21) Sample      21  40151616002 x10,,17575,BIOTA
      Datafile        032718021
      Method          GEBIOTA2017
22) Sample      22  40151616003 x3,,17575,BIOTA
      Datafile        032718022
      Method          GEBIOTA2017
23) Sample      23  40151616004 x5,,17575,BIOTA
      Datafile        032718023
      Method          GEBIOTA2017
24) Sample      24  40151616005,,17575,BIOTA
      Datafile        032718024
      Method          GEBIOTA2017
25) Sample      25  40151616006 x10,,17575,BIOTA
      Datafile        032718025
      Method          GEBIOTA2017
26) Sample      26  40151616007 x5,,17575,BIOTA RS x15
      Datafile        032718026
      Method          GEBIOTA2017
27) Sample      27  40151616008 x2,,17575,BIOTA
      Datafile        032718027
      Method          GEBIOTA2017
28) Sample      28  1242-CCV,185544:1,17498,AR124 ok
      Datafile        032718028
      Method          GEBIOTA2017
29) Sample      29  1242-CCV,185544:1,17498,AR124 ok
      Datafile        032718029
      Method          GEBIOTA2017
30) Sample      30  40151616009 x5,,17575,BIOTA RS x100
      Datafile        032718030
      Method          GEBIOTA2017
31) Sample      31  40151616010 x2,,17575,BIOTA RS x30
      Datafile        032718031
      Method          GEBIOTA2017
32) Sample      32  1662969 x2,,17575,BIOTA RS x30
      Datafile        032718032
      Method          GEBIOTA2017
33) Sample      33  40151802006,,17575,BIOTA
      Datafile        032718033
      Method          GEBIOTA2017
34) Sample      34  40151805002,,17575,BIOTA
      Datafile        032718034
      Method          GEBIOTA2017
35) Sample      35  1248-CCV,185549:1,17498,AR124 ok
      Datafile        032718035
      Method          GEBIOTA2017
36) Sample      36  1248-CCV,185549:1,17498,AR124 ok
      Datafile        032718036
      Method          GEBIOTA2017
```

Screener Ran: 40GCSI 03/27/18

Last Modified: Tue Mar 27 13:02:35 2018 Page: 2

BLM 4/3/18

Continued on Page —

Read and Understood By

Signed 4/3/18 Date

Signed 4-3-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032818.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\032818\
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          032818001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032818002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032818003
     Method            GEBIOTA2017
 4) Sample          4  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032818004
     Method            GEBIOTA2017
 5) Sample          5  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032818005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x30,,17575,BIOTA RS
     Datafile          032818006
     Method            GEBIOTA2017
 7) Sample          7  40151614010 x2,,17575,BIOTA
     Datafile          032818007
     Method            GEBIOTA2017
 8) Sample          8  40151616007 x15,,17575,BIOTA
     Datafile          032818008
     Method            GEBIOTA2017
 9) Sample          9  40151616009 x100,,17575,BIOTA
     Datafile          032818009
     Method            GEBIOTA2017
10) Sample         10  40151616010 x30,,17575,BIOTA RS
     Datafile          032818010
     Method            GEBIOTA2017
11) Sample         11  1662969 x30,,17575,BIOTA
     Datafile          032818011
     Method            GEBIOTA2017
12) Sample         12  1664186,,17584,BIOTA
     Datafile          032818012
     Method            GEBIOTA2017
13) Sample         13  1664187,,17584,BIOTA
     Datafile          032818013
     Method            GEBIOTA2017
14) Sample         14  1664188 x5,,17584,BIOTA
     Datafile          032818014
     Method            GEBIOTA2017
15) Sample         15  40157828001 x3,,17584,BIOTA
     Datafile          032818015
     Method            GEBIOTA2017
16) Sample         16  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032818016
     Method            GEBIOTA2017
17) Sample         17  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032818017
     Method            GEBIOTA2017
18) Sample         18  40157828002 x4,,17584,BIOTA
     Datafile          032818018
     Method            GEBIOTA2017
19) Sample         19  40157828003 x3,,17584,BIOTA
     Datafile          032818019

  Last Modified: Wed Mar 28 13:13:30 2018                Page:  1
```

BLM 4/3/18

Continued on Page 35

Read and Understood By

Bryan Meyer — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

```
      Method          GEBIOTA2017
20) Sample      20  40157828004 x3,,17584,BIOTA
      Datafile        032818020
      Method          GEBIOTA2017
21) Sample      21  40157828005 x2,,17584,BIOTA
      Datafile        032818021
      Method          GEBIOTA2017
22) Sample      22  40157828006 x4,,17584,BIOTA
      Datafile        032818022
      Method          GEBIOTA2017
23) Sample      23  40157828007 x5,,17584,BIOTA
      Datafile        032818023
      Method          GEBIOTA2017
24) Sample      24  40157828008 x3,,17584,BIOTA
      Datafile        032818024
      Method          GEBIOTA2017
25) Sample      25  40157828009 x5,,17584,BIOTA
      Datafile        032818025
      Method          GEBIOTA2017
26) Sample      26  40157828010 x5,,17584,BIOTA RS
      Datafile        032818026
      Method          GEBIOTA2017
27) Sample      27  40157828011 x5,,17584,BIOTA
      Datafile        032818027
      Method          GEBIOTA2017
28) Sample      28  1221-CCV,185538:1,17498,AR122 OK
      Datafile        032818028
      Method          GEBIOTA2017
29) Sample      29  1221-CCV,185538:1,17498,AR122 OK
      Datafile        032818029
      Method          GEBIOTA2017
30) Sample      30  40157828012 x5,,17584,BIOTA
      Datafile        032818030
      Method          GEBIOTA2017
31) Sample      31  40157828013 x5,,17584,BIOTA
      Datafile        032818031
      Method          GEBIOTA2017
32) Sample      32  40157828014 x3,,17584,BIOTA
      Datafile        032818032
      Method          GEBIOTA2017
33) Sample      33  40157828015 x5,,17584,BIOTA
      Datafile        032818033
      Method          GEBIOTA2017
34) Sample      34  40157828016 x5,,17584,BIOTA
      Datafile        032818034
      Method          GEBIOTA2017
35) Sample      35  40157828017 x5,,17584,BIOTA
      Datafile        032818035
      Method          GEBIOTA2017
36) Sample      36  40157828018 x5,,17584,BIOTA
      Datafile        032818036
      Method          GEBIOTA2017
37) Sample      37  1664189 x5,,17584,BIOTA
      Datafile        032818037
      Method          GEBIOTA2017
38) Sample      38  40157828019 x2,,17584,BIOTA RS
      Datafile        032818038
      Method          GEBIOTA2017
39) Sample      39  40157828020 x5,,17584,BIOTA
      Datafile        032818039
      Method          GEBIOTA2017
40) Sample      40  1232-CCV,185539:1,17498,AR123 OK
      Datafile        032818040
      Method          GEBIOTA2017
41) Sample      41  1232-CCV,185539:1,17498,AR123 OK
      Datafile        032818041
      Method          GEBIOTA2017
```

GCSV Batch #17584 HBN: 284488 Screened: 40GCSI 3/28/18

Last Modified: Wed Mar 28 13:13:30 2018 Page: 2

BLK 4/3/18

Continued on Page —

Read and Understood By

Signed 4/3/18 Date Signed 4-3-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\033018.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\033018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
  ---------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          033018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          033018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          033018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x40,,17575,BIOTA
     Datafile          033018006
     Method            GEBIOTA2017
 7) Sample          7  40151616010 x40,,17575,BIOTA
     Datafile          033018007
     Method            GEBIOTA2017
 8) Sample          8  40157828010 x10,,17584,BIOTA
     Datafile          033018008
     Method            GEBIOTA2017
 9) Sample          9  40157828019 x3,,17584,BIOTA
     Datafile          033018009
     Method            GEBIOTA2017
10) Sample         10  1664793,,17591,BIOTA
     Datafile          033018010
     Method            GEBIOTA2017
11) Sample         11  1664794,,17591,BIOTA
     Datafile          033018011
     Method            GEBIOTA2017
12) Sample         12  1664795,,17591,BIOTA
     Datafile          033018012
     Method            GEBIOTA2017
13) Sample         13  40151549001 x3,,17591,BIOTA
     Datafile          033018013
     Method            GEBIOTA2017
14) Sample         14  40151601001,,17591,BIOTA
     Datafile          033018014
     Method            GEBIOTA2017
15) Sample         15  40151613001,,17591,BIOTA
     Datafile          033018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018017
     Method            GEBIOTA2017
18) Sample         18  1664796,,17591,BIOTA
     Datafile          033018018
     Method            GEBIOTA2017
19) Sample         19  40151613002,,17591,BIOTA
     Datafile          033018019

   Last Modified: Fri Mar 30 14:55:13 2018                Page:  1
```

BLM 4/3/18

Continued on Page 37

Read and Understood By

Signed: Bryan Mayl — Date: 4/3/18

Signed: Dawn Haag — Date: 4-3-18

```
      Method              GEBIOTA2017
20) Sample          20  40151614002 x2,,17591,BIOTA
      Datafile            033018020
      Method              GEBIOTA2017
21) Sample          21  40151614003 x3,,17591,BIOTA
      Datafile            033018021
      Method              GEBIOTA2017
22) Sample          22  40151614004,,17591,BIOTA
      Datafile            033018022
      Method              GEBIOTA2017
23) Sample          23  40151613014,,17591,BIOTA
      Datafile            033018023
      Method              GEBIOTA2017
24) Sample          24  40151800005,,17591,BIOTA
      Datafile            033018024
      Method              GEBIOTA2017
25) Sample          25  40151802001,,17591,BIOTA
      Datafile            033018025
      Method              GEBIOTA2017
26) Sample          26  40151802002,,17591,BIOTA
      Datafile            033018026
      Method              GEBIOTA2017
27) Sample          27  40151802003,,17591,BIOTA
      Datafile            033018027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 ok
      Datafile            033018028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 ok
      Datafile            033018029
      Method              GEBIOTA2017
30) Sample          30  40151802004,,17591,BIOTA
      Datafile            033018030
      Method              GEBIOTA2017
31) Sample          31  40151802005,,17591,BIOTA
      Datafile            033018031
      Method              GEBIOTA2017
32) Sample          32  40151805001,,17591,BIOTA
      Datafile            033018032
      Method              GEBIOTA2017
33) Sample          33  40157825001,,17591,BIOTA
      Datafile            033018033
      Method              GEBIOTA2017
34) Sample          34  1664809,,17591,BIOTA
      Datafile            033018034
      Method              GEBIOTA2017
35) Sample          35  1665641,,17602,BIOTA
      Datafile            033018035
      Method              GEBIOTA2017
36) Sample          36  1665642,,17602,BIOTA
      Datafile            033018036
      Method              GEBIOTA2017
37) Sample          37  1665643 x2,,17602,BIOTA
      Datafile            033018037
      Method              GEBIOTA2017
38) Sample          38  40157488001,,17602,BIOTA
      Datafile            033018038
      Method              GEBIOTA2017
39) Sample          39  40157488002 x2,,17602,BIOTA
      Datafile            033018039
      Method              GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 ok
      Datafile            033018040
      Method              GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 ok
      Datafile            033018041
      Method              GEBIOTA2017
42) Sample          42  40157488003,,17602,BIOTA
      Datafile            033018042
      Method              GEBIOTA2017
43) Sample          43  40157488004 x3,,17602,BIOTA
      Datafile            033018043

   Last Modified: Fri Mar 30 14:55:13 2018                Page:  2
```

BLM 4/3/18

Continued on Page 38

Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: [signature] Date: 4-3-18

Sequence Name: C:\msdchem\1\sequence\033018.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157488005,,17602,BIOTA		
	Datafile		033018044		
	Method			GEBIOTA2017	
45)	Sample	45	1665644,,17602,BIOTA		
	Datafile		033018045		
	Method			GEBIOTA2017	
46)	Sample	46	40157489001,,17602,BIOTA		
	Datafile		033018046		
	Method			GEBIOTA2017	
47)	Sample	47	40157489002,,17602,BIOTA		
	Datafile		033018047		
	Method			GEBIOTA2017	
48)	Sample	48	40157489003,,17602,BIOTA		
	Datafile		033018048		
	Method			GEBIOTA2017	
49)	Sample	49	40157489004,,17602,BIOTA		
	Datafile		033018049		
	Method			GEBIOTA2017	
50)	Sample	50	40157489005 x2,,17602,BIOTA		
	Datafile		033018050		
	Method			GEBIOTA2017	
51)	Sample	51	40157825002,,17602,BIOTA		
	Datafile		033018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018053		
	Method			GEBIOTA2017	
54)	Sample	54	40157825003,,17602,BIOTA		
	Datafile		033018054		
	Method			GEBIOTA2017	
55)	Sample	55	40157825004,,17602,BIOTA		
	Datafile		033018055		
	Method			GEBIOTA2017	
56)	Sample	56	40157825005,,17602,BIOTA RS x2		
	Datafile		033018056		
	Method			GEBIOTA2017	
57)	Sample	57	40157825006,,17602,BIOTA		
	Datafile		033018057		
	Method			GEBIOTA2017	
58)	Sample	58	1665645,,17602,BIOTA		
	Datafile		033018058		
	Method			GEBIOTA2017	
59)	Sample	59	40157825007 x2,,17602,BIOTA		
	Datafile		033018059		
	Method			GEBIOTA2017	
60)	Sample	60	40157825008 x3,,17602,BIOTA		
	Datafile		033018060		
	Method			GEBIOTA2017	
61)	Sample	61	40157825009 x5,,17602,BIOTA		
	Datafile		033018061		
	Method			GEBIOTA2017	
62)	Sample	62	40157825010,,17602,BIOTA RS x2		
	Datafile		033018062		
	Method			GEBIOTA2017	
63)	Sample	63	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018063		
	Method			GEBIOTA2017	
64)	Sample	64	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018064		
	Method			GEBIOTA2017	

GCSV Batch 17591 HBN: 284630 AND 17602 HBN: 284746
Screened: 03/30/18 40GCSJ

Last Modified: Fri Mar 30 14:55:13 2018

Page: 4

BLM 4/3/18

Continued on Page —

Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

```
    Sequence Name: C:\msdchem\1\sequence\040518.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\040518\
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          040518001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040518002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040518003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17498,AR124 OK
     Datafile          040518004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17498,AR124 OK
     Datafile          040518005
     Method            GEBIOTA2017
 6) Sample          6  40151616001 x2,,17567,BIOTA
     Datafile          040518006
     Method            GEBIOTA2017
 7) Sample          7  40151804002 x2,,17567,BIOTA
     Datafile          040518007
     Method            GEBIOTA2017
 8) Sample          8  1667970,,17626,BIOTA
     Datafile          040518008
     Method            GEBIOTA2017
 9) Sample          9  1667971,,17626,BIOTA
     Datafile          040518009
     Method            GEBIOTA2017
10) Sample         10  40157488011,,17626,BIOTA
     Datafile          040518010
     Method            GEBIOTA2017
11) Sample         11  40157488012 x2,,17626,BIOTA
     Datafile          040518011
     Method            GEBIOTA2017
12) Sample         12  40157488013 x2,,17626,BIOTA
     Datafile          040518012
     Method            GEBIOTA2017
13) Sample         13  40157488014 x2,,17626,BIOTA
     Datafile          040518013
     Method            GEBIOTA2017
14) Sample         14  40157488015 x3,,17626,BIOTA
     Datafile          040518014
     Method            GEBIOTA2017
15) Sample         15  40157489011 x4,,17626,BIOTA
     Datafile          040518015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17498,AR124 OK
     Datafile          040518016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17498,AR124 OK
     Datafile          040518017
     Method            GEBIOTA2017
18) Sample         18  40157489012 x5,,17626,BIOTA
     Datafile          040518018
     Method            GEBIOTA2017
19) Sample         19  40157489013 x2,,17626,BIOTA
     Datafile          040518019

   Last Modified: Thu Apr 05 13:16:40 2018                Page:  1
```

BLM 4/6/18

Continued on Page 44

Read and Understood By

Bryan Megel — Signed — 4/6/18 Date

Jim O'Connor — Signed — 4-6-18 Date

```
      Method                GEBIOTA2017
20) Sample          20  40157489014 x2,,17626,BIOTA
      Datafile              040518020
      Method                GEBIOTA2017
21) Sample          21  40157489015 x5,,17626,BIOTA
      Datafile              040518021
      Method                GEBIOTA2017
22) Sample          22  40157489016 x3,,17626,BIOTA
      Datafile              040518022
      Method                GEBIOTA2017
23) Sample          23  1667972 x3,,17626,BIOTA
      Datafile              040518023
      Method                GEBIOTA2017
24) Sample          24  1667973 x3,,17626,BIOTA
      Datafile              040518024
      Method                GEBIOTA2017
25) Sample          25  40157489017,,17626,BIOTA
      Datafile              040518025
      Method                GEBIOTA2017
26) Sample          26  40157489018,,17626,BIOTA
      Datafile              040518026
      Method                GEBIOTA2017
27) Sample          27  40157489019 x4,,17626,BIOTA
      Datafile              040518027
      Method                GEBIOTA2017
28) Sample          28  1660-CCV,185559:1,17498,AR166 ok
      Datafile              040518028
      Method                GEBIOTA2017
29) Sample          29  1660-CCV,185559:1,17498,AR166 ok
      Datafile              040518029
      Method                GEBIOTA2017
30) Sample          30  40157489020,,17626,BIOTA
      Datafile              040518030
      Method                GEBIOTA2017
31) Sample          31  40157492012 x4,,17626,BIOTA
      Datafile              040518031
      Method                GEBIOTA2017
32) Sample          32  40157492013 x5,,17626,BIOTA
      Datafile              040518032
      Method                GEBIOTA2017
33) Sample          33  40157492014 x3,,17626,BIOTA
      Datafile              040518033
      Method                GEBIOTA2017
34) Sample          34  40157492015 x5,,17626,BIOTA
      Datafile              040518034
      Method                GEBIOTA2017
35) Sample          35  40157492017 x2,,17626,BIOTA
      Datafile              040518035
      Method                GEBIOTA2017
36) Sample          36  1221-CCV,185538:1,17498,AR122 ok
      Datafile              040518036
      Method                GEBIOTA2017
37) Sample          37  1221-CCV,185538:1,17498,AR122 ok
      Datafile              040518037
      Method                GEBIOTA2017
```

GCSV Batch 17626 HBN: 285248 Screened:
40GCSI 04/05/18

Last Modified: Thu Apr 05 13:16:40 2018

Page: 2

BLM 4/6/18

Continued on Page —

Read and Understood By

Bryan Meyer — Signed — 4/6/18 — Date

Jim O'Connor — Signed — 4-6-18 — Date

Standard Log Report

Standards Log Information for Standard #192185

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/23/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/23/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192185

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

Composed of Information for Standard #192185

Composed of Standard Seq	Volume	Units
190940	2000	mL
188917	2000	mL

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

Standard Log Report

Standards Log Information for Standard #191930

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/21/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/21/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191930

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

Composed of Information for Standard #191930

Composed of Standard Seq	Volume	Units
190949	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #190953

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190953

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #190952

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190952

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #190949

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 #190949

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 #190940

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 #190940

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

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

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

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

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

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

Composed of Information for Standard #188136

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

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

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

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

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

Composed of Information for Standard #188135

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

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

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

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

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

Composed of Information for Standard #188134

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

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

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

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

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

Composed of Information for Standard #188132

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

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

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

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

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

Composed of Information for Standard #188129

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

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

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

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

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

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

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

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

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

Composed of Information for Standard #185565

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

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

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

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

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

Composed of Information for Standard #185564

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

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

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

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

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

Composed of Information for Standard #185563

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

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

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

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

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

Composed of Information for Standard #185562

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

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

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

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

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

Composed of Information for Standard #185561

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

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

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

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

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

Composed of Information for Standard #185560

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

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

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

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

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

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

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

Composed of Information for Standard #185554

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

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

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

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

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

Composed of Information for Standard #185553

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

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

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

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

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

Composed of Information for Standard #185551

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

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

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

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

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

Composed of Information for Standard #185550

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

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

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

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

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

Composed of Information for Standard #185549

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

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

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

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

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

Composed of Information for Standard #185548

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

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

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

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

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

Composed of Information for Standard #185546

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

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

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

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

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

Composed of Information for Standard #185545

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

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

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

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

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

Composed of Information for Standard #185544

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

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

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

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

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

Composed of Information for Standard #185543

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

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

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

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

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

Composed of Information for Standard #185539

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

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

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

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

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

Composed of Information for Standard #185538

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

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

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

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

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

Composed of Information for Standard #185537

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

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

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

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

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #182336

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	11/09/2017	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\111017spk.b\A110047 96% Recovery

Compound Name and Concentration for Standard #182336

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #182336

Composed of Standard Seq	Volume	Units
175728	196	mL
164832	4000	uL

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

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

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

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

Standard Log Report

Standards Log Information for Standard #175728

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405434
Create Date:	08/10/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	11/10/2018	**Manufacturer Lot ID:**	DS178	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #175728

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

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

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

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

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

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

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

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

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

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

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

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

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		

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

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

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

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

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	25 mL	**Lot ID:**	405214
Create Date:	03/27/2017	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	302694	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

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

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

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ By __

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Rev 0 **Page 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-07	302694	≤ Ambient	Tol.:Hex. 1:1	15-Jan-2021	Aroclor 1242 Solution, 1,000 mg/L, 25 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1002 +/- 5.75	mg/L

Certified By: _____

Dreema Murray

Manufacture Date 17-Mar-2017

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

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

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

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

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

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

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

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

Description : Aroclor® 1221 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

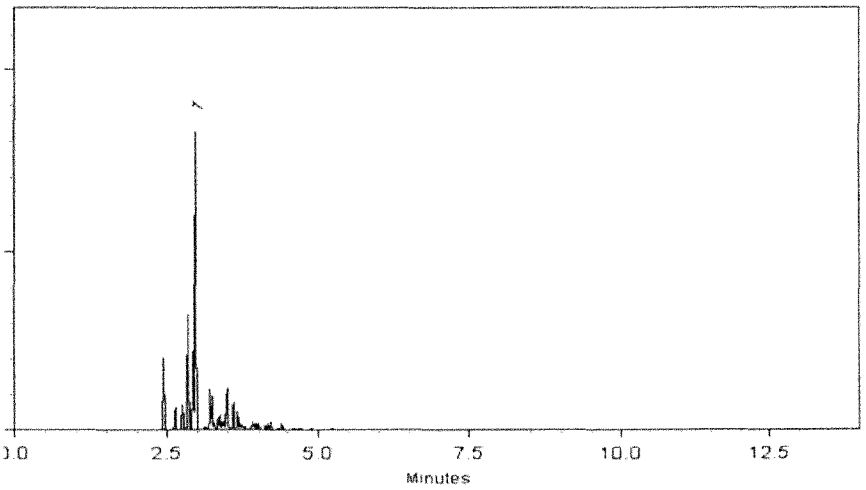
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

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

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

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

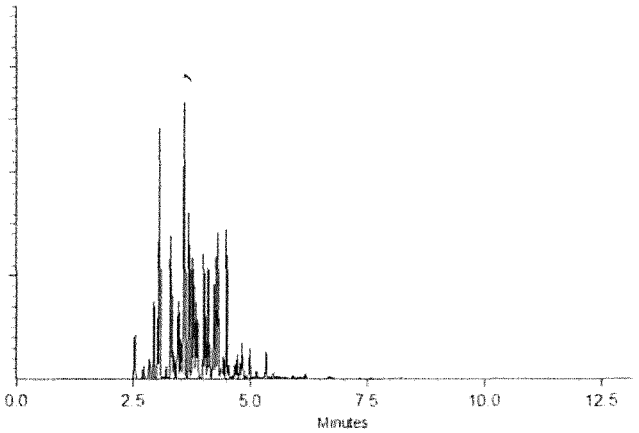
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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

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

Description : Aroclor® 1242 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

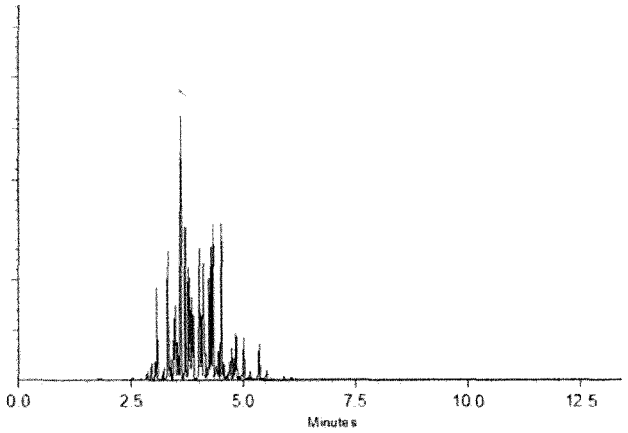
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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

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

Description : Aroclor® 1248 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

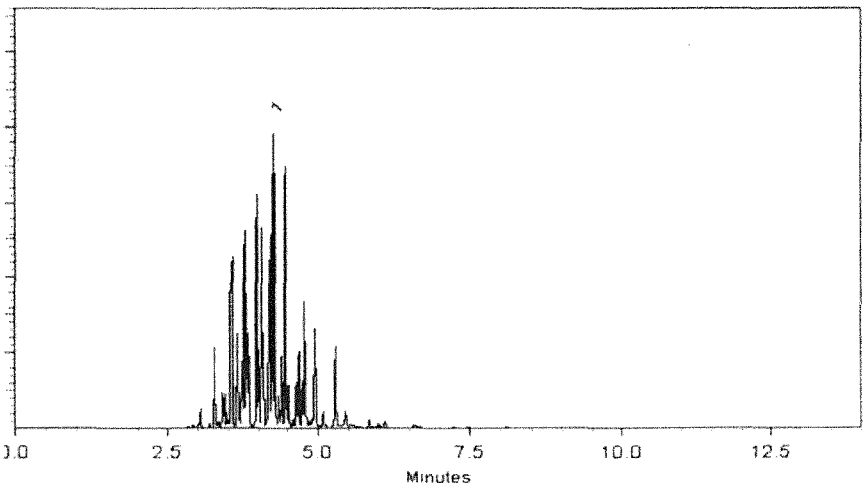
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

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

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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

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

Description : Aroclor® 1254 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

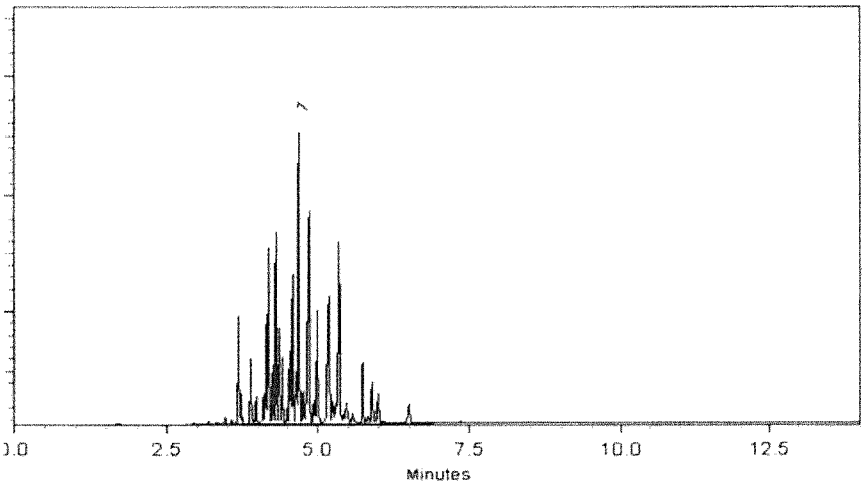
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

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

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

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

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

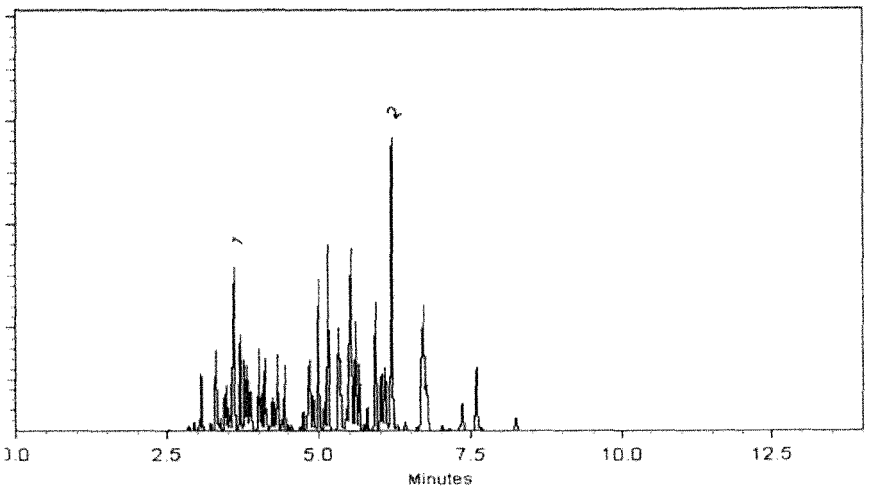
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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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

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.

o2si smart solutions®

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

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

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

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

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** 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)

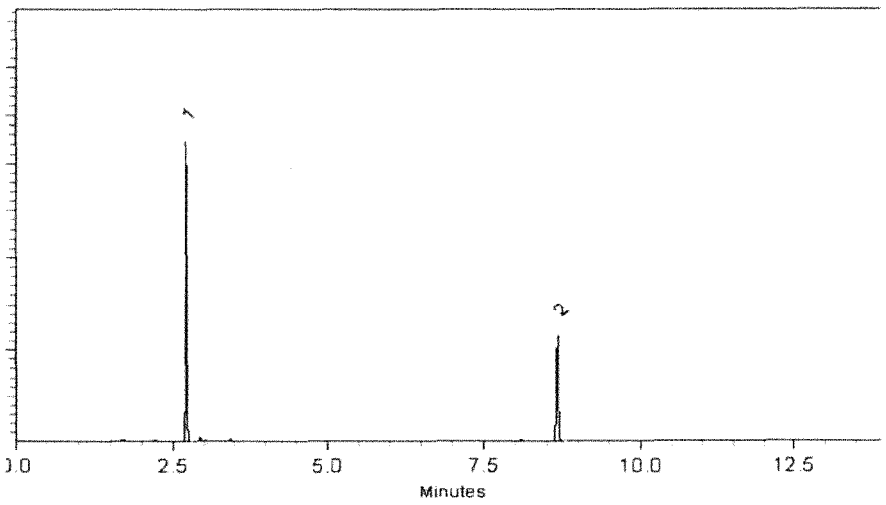
Carrier Gas:
helium-constant pressure 20 psi.

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

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	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

o2si smart solutions®

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

2030 Savage Road
Charleston, South Carolina 29407
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ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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

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

Certified By: _____
Kara Catron
Manufacture Date 24-Jul-2017

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

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

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

J.T.Baker® | avantor™

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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James Ethier
Jamie Ethier
Vice President Global Quality

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

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Certificate of Analysis

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Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

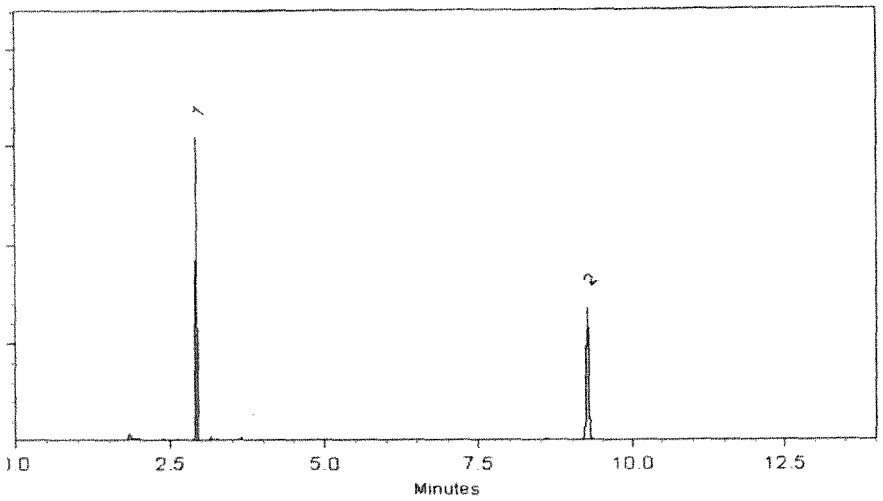
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

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

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

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 gravimetricly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

SAMPLE NO.

ND1-170613-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.44		%	1	03/23/2018 06:20

SAMPLE NO.

ND1-170613-01-BB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.76		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.81		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.78		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/23/2018 14:11

SAMPLE NO.

ND1-170613-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151616010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.43		%	1	03/23/2018 14:11

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1662744	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1663325	C
Lipid									<0.030	U

SAMPLE NO.

1662747DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.70	0.81	14

SAMPLE NO.

1663327DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.32	0.27	15

SAMPLE NO.

1663329DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151616 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.43	0.37	16

Prep Log Report

Batch Information: OEXT 284080 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:43				

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	**1662744**	Y	0.01500	03/23/2018 06:20:11		10	5	1	0.9258	0.9261	M	
LIPID	BLANK	**1662745**	Y	0.04500	03/23/2018 06:20:11		10	5	1	0.9256	0.9265	M	
LIPID	PS	**40151552011**	Y	1.255	03/23/2018 06:20:11		9.9626	5	1	0.9209	0.9459	M	
LIPID	PS	**40151597001**	Y	0.5350	03/23/2018 06:20:11		9.9992	5	1	0.9267	0.9374	M	
LIPID	PS	**40151605001**	Y	1.669	03/23/2018 06:20:11		10.0092	5	1	0.9233	0.9567	M	
LIPID	PS	**40151605002**	Y	0.8256	03/23/2018 06:20:11		9.9923	5	1	0.9281	0.9446	M	
LIPID	PS	**40151614001**	Y	0.6138	03/23/2018 06:20:11		10.0203	5	1	0.9272	0.9395	M	
LIPID	PS	**40151616001**	Y	0.4351	03/23/2018 06:20:11		9.9967	5	1	0.9266	0.9353	M	
LIPID	PS	**40151619001**	Y	0.7315	03/23/2018 06:20:11		9.9791	5	1	0.9237	0.9383	M	
LIPID	RQS	**40151619002**	Y	0.6984	03/23/2018 06:20:11		10.0233	5	1	0.9254	0.9394	M	
LIPID	DUP	**1662747**	Y	0.8068	03/23/2018 06:20:11		9.9773	5	1	0.9286	0.9447	M	
LIPID	PS	**40151619003**	Y	1.308	03/23/2018 06:20:11		10.0185	5	1	0.9251	0.9513	M	
LIPID	PS	**40151619004**	Y	0.9110	03/23/2018 06:20:11		9.9887	5	1	0.9302	0.9484	M	
LIPID	PS	**40151800001**	Y	0.4543	03/23/2018 06:20:11		10.0159	5	1	0.9307	0.9398	M	
LIPID	PS	**40151800002**	Y	0.6069	03/23/2018 06:20:11		9.968	5	1	0.9303	0.9424	M	
LIPID	PS	**40151800003**	Y	1.099	03/23/2018 06:20:11		9.9637	5	1	0.9323	0.9542	M	
LIPID	PS	**40151800004**	Y	0.8284	03/23/2018 06:20:11		10.0193	5	1	0.9266	0.9432	M	
LIPID	PS	**40151804001**	Y	1.434	03/23/2018 06:20:11		9.9711	5	1	0.9289	0.9575	M	
LIPID	PS	**40151804002**	Y	0.3909	03/23/2018 06:20:11		9.9758	5	1	0.9282	0.936	M	

Prep Log Report

40151616

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40151804003**	Y	0.9836	03/23/2018 06:20:11		9.9638	5	1	0.9296	0.9492	M	
LIPID	PS	**40151804009**	Y	1.054	03/23/2018 06:20:11		10.0066	5	1	0.9292	0.9503	M	
LIPID	PS	**40151804010**	Y	1.136	03/23/2018 06:20:11		10.0363	5	1	0.9286	0.9514	M	
LIPID	MS	**1682565**	Y	0.7630	03/23/2018 06:20:11		9.9608	5	1	.9272	0.9424	M	

Prep Log Report

Batch Information: OEXT 284178 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:50				

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	**1663325**	Y	-0.005000	03/23/2018 14:11:08		10	5	1	0.9286	0.9285	M	
LIPID	BLANK	**1663326**	Y	-0.02500	03/23/2018 14:11:08		10	5	1	0.9301	0.9296	M	
LIPID	PS	**40151613012**	Y	0.3157	03/23/2018 14:11:08		9.978	5	1	0.9304	0.9367	M	
LIPID	DUP	**1663327**	Y	0.2703	03/23/2018 14:11:08		9.9887	5	1	0.9297	0.9351	M	
LIPID	PS	**40151613013**	Y	0.2156	03/23/2018 14:11:08		9.974	5	1	0.929	0.9333	M	
LIPID	PS	**40151614006**	Y	0.1953	03/23/2018 14:11:08		9.9847	5	1	0.9312	0.9351	M	
LIPID	PS	**40151614009**	Y	0.7095	03/23/2018 14:11:08		10.0068	5	1	0.9288	0.943	M	
LIPID	PS	**40151614010**	Y	0.9109	03/23/2018 14:11:08		9.9903	5	1	0.9327	0.9509	M	
LIPID	PS	**40151616002**	Y	1.022	03/23/2018 14:11:08		10.0303	5	1	0.9302	0.9507	M	
LIPID	PS	**40151616003**	Y	0.7577	03/23/2018 14:11:08		9.964	5	1	0.9318	0.9469	M	
LIPID	PS	**40151616004**	Y	1.189	03/23/2018 14:11:08		9.9633	5	1	0.9297	0.9534	M	
LIPID	PS	**40151616005**	Y	0.8132	03/23/2018 14:11:08		9.9603	5	1	0.9315	0.9477	M	
LIPID	PS	**40151616006**	Y	1.163	03/23/2018 14:11:08		10.0159	5	1	0.9297	0.953	M	
LIPID	PS	**40151616007**	Y	0.7830	03/23/2018 14:11:08		9.9618	5	1	0.9269	0.9425	M	
LIPID	PS	**40151616008**	Y	1.421	03/23/2018 14:11:08		10.0254	5	1	0.9288	0.9573	M	
LIPID	PS	**40151616009**	Y	1.048	03/23/2018 14:11:08		9.9761	5	1	0.9294	0.9503	M	
LIPID	RQS	**40151616010**	Y	0.4303	03/23/2018 14:11:08		9.9941	5	1	0.9282	0.9368	M	
LIPID	DUP	**1663329**	Y	0.3651	03/23/2018 14:11:08		9.9982	5	1	0.9289	0.9362	M	
LIPID	PS	**40151802006**	Y	0.6452	03/23/2018 14:11:08		9.9966	5	1	0.9252	0.9381	M	

Prep Log Report

40151616

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40151805002**	Y	0.8014	03/23/2018 14:11:08		9.9823	5	1	0.9318	0.9478	M	
LIPID	MS	**1682513**	Y	0.4666	03/23/2018 14:11:08		9.965	5	1	.9284	0.9377	M	

40151616

Client Name: GE
Project #: 40151616
Sample Type: Fish
Date/Time Removed to Thaw: 03-13-18
Date/Time Prepped: 03-14-18
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	79.7	Y	M	32.5	Left / Both	Y	9AG	1	Y	30.8	C	
2	B	F	Y	840.2	Y	F	50.7	Left / Both	Y	9AG	1	Y	49.8	C	Bullhead
3	B	F	Y	860.2	Y	M	147.8	Left / Both	Y	9AG	1	Y	147.7	C	Bullhead
4	B	F	Y	716.2	Y	F	65.4	Left / Both	Y	9AG	1	Y	64.4	C	Bullhead
5	B	F	Y	422.7	Y	F	40.6	Left / Both	Y	9AG	1	Y	38.4	C	Bullhead
6	B	F	Y	769.5	Y	F	81.4	Left / Both	Y	9AG	1	Y	77.0	C	Bullhead
7	B	F	Y	937.3	Y	F	88.6	Left / Both	Y	9AG	1	Y	85.0	C	Bullhead
8	B	F	Y	434.0	Y	F	48.7	Left / Both	Y	9AG	1	Y	48.7	C	Bullhead
9	B	F	Y	866.0	Y	F	99.6	Left / Both	Y	9AG	1	Y	98.1	C	Bullhead
10	B	F	Y	784.7	Y	M	76.7	Left / Both	Y	9AG	1	Y	75.3	C	Bullhead
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	03-14-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

566 of 566

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-212-04AB
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

3/16/18
Date