Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157703

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

May 07, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tod Noltemeyer

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

Enclosures

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

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Green Bay Certification IDs

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

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SAMPLE SUMMARY

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157703001	**TD1-170615-01-YB-02**	Tissue	06/15/17 15:11	09/29/17 10:00
40157703002	**TD1-170615-01-BB-03**	Tissue	06/15/17 15:05	09/29/17 10:00
40157703003	**TD1-170615-01-BB-02**	Tissue	06/15/17 15:02	09/29/17 10:00
40157703004	**SW1-170615-01-BB-05**	Tissue	06/15/17 12:58	09/29/17 10:00
40157703005	**ND5-170615-01-YB-01**	Tissue	06/15/17 12:37	09/29/17 10:00
40157703006	**ND5-170615-01-BB-09**	Tissue	06/15/17 12:35	09/29/17 10:00
40157703007	**ND5-170615-01-BB-08**	Tissue	06/15/17 12:34	09/29/17 10:00
40157703008	**ND5-170615-01-BB-07**	Tissue	06/15/17 12:32	09/29/17 10:00
40157703009	**ND5-170615-01-BB-06**	Tissue	06/15/17 12:30	09/29/17 10:00
40157703010	**ND5-170615-01-BB-05**	Tissue	06/15/17 12:28	09/29/17 10:00
40157703011	**ND5-170615-01-BB-04**	Tissue	06/15/17 12:25	09/29/17 10:00
40157703012	**ND5-170615-01-BB-03**	Tissue	06/15/17 12:23	09/29/17 10:00
40157703013	**ND5-170615-01-BB-02**	Tissue	06/15/17 12:20	09/29/17 10:00
40157703014	**ND5-170615-01-BB-01**	Tissue	06/15/17 12:18	09/29/17 10:00
40157703015	**ND3-170615-01-BB-05**	Tissue	06/15/17 09:55	09/29/17 10:00
40157703016	**ND3-170615-01-BB-04**	Tissue	06/15/17 09:53	09/29/17 10:00
40157703017	**ND3-170615-01-BB-03**	Tissue	06/15/17 09:49	09/29/17 10:00
40157703018	**ND3-170615-01-BB-02**	Tissue	06/15/17 09:46	09/29/17 10:00
40157703019	**ND3-170615-01-BB-01**	Tissue	06/15/17 09:44	09/29/17 10:00

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157703001	TD1-170615-01-YB-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703002	TD1-170615-01-BB-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703003	TD1-170615-01-BB-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703004	SW1-170615-01-BB-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703005	ND5-170615-01-YB-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703006	ND5-170615-01-BB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703007	ND5-170615-01-BB-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703008	ND5-170615-01-BB-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703009	ND5-170615-01-BB-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703010	ND5-170615-01-BB-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703011	ND5-170615-01-BB-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703012	ND5-170615-01-BB-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703013	ND5-170615-01-BB-02	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703014	**ND5-170615-01-BB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703015	**ND3-170615-01-BB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703016	**ND3-170615-01-BB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703017	**ND3-170615-01-BB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703018	**ND3-170615-01-BB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157703019	**ND3-170615-01-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 M
Pace Project No.: 40157703

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

General Information:
19 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: 285341

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- ND3-170615-01-BB-05 (Lab ID: 40157703015)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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

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

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

QC Batch: 285341

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157703018

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
- MS (Lab ID: 1669844)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

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

Analyte Comments:

QC Batch: 285341

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

- ND5-170615-01-BB-03 (Lab ID: 40157703012)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

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

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: TD1-170615-01-YB-02 **Lab ID: 40157703001** Collected: 06/15/17 15:11 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.7**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.7**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**590**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**341**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	11097-69-1	
PCB-1260 (Aroclor 1260)	**52.8J**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	11096-82-5	
PCB, Total	**984**	ug/kg	99.7	22.7	2	04/12/18 07:14	04/13/18 20:38	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		2	04/12/18 07:14	04/13/18 20:38	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		2	04/12/18 07:14	04/13/18 20:38	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.41**	%	0.030	0.030	1		04/13/18 06:30		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: TD1-170615-01-BB-03 **Lab ID: 40157703002** Collected: 06/15/17 15:05 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	53469-21-9	
PCB-1248 (Aroclor 1248)	**154**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**100**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	11097-69-1	
PCB-1260 (Aroclor 1260)	**17.4J**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	11096-82-5	
PCB, Total	**271**	ug/kg	49.9	11.4	1	04/06/18 07:14	04/10/18 14:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		1	04/06/18 07:14	04/10/18 14:54	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	04/06/18 07:14	04/10/18 14:54	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.84**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: TD1-170615-01-BB-02 **Lab ID: 40157703003** Collected: 06/15/17 15:02 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**1310**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**784**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**242J**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	11096-82-5	
PCB, Total	**2330**	ug/kg	500	114	10	04/06/18 07:14	04/10/18 15:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		10	04/06/18 07:14	04/10/18 15:10	877-09-8	
Decachlorobiphenyl (S)	109	%	60-140		10	04/06/18 07:14	04/10/18 15:10	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/04/18 14:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.9**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: SW1-170615-01-BB-05 **Lab ID: 40157703004** Collected: 06/15/17 12:58 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.3**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**644**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**301**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**91.2J**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	11096-82-5	
PCB, Total	**1040**	ug/kg	150	34.3	3	04/06/18 07:14	04/10/18 15:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		3	04/06/18 07:14	04/10/18 15:26	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		3	04/06/18 07:14	04/10/18 15:26	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-YB-01 **Lab ID: 40157703005** Collected: 06/15/17 12:37 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	53469-21-9	
PCB-1248 (Aroclor 1248)	**197**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**122**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	11097-69-1	
PCB-1260 (Aroclor 1260)	**46.9J**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	11096-82-5	
PCB, Total	**366**	ug/kg	50.1	11.4	1	04/12/18 07:14	04/13/18 21:25	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	04/12/18 07:14	04/13/18 21:25	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	04/12/18 07:14	04/13/18 21:25	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.82**	%	0.030	0.030	1		04/13/18 06:30		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-09 **Lab ID: 40157703006** Collected: 06/15/17 12:35 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**45.5J**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**81.0**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**34.7J**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	11096-82-5	
PCB, Total	**161**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	04/06/18 07:14	04/10/18 15:41	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	04/06/18 07:14	04/10/18 15:41	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:31		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-08 **Lab ID: 40157703007** Collected: 06/15/17 12:34 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**38.0J**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**296**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**173**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**45.0J**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	11096-82-5	
PCB, Total	**552**	ug/kg	50.1	11.4	1	04/06/18 07:14	04/10/18 15:57	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		1	04/06/18 07:14	04/10/18 15:57	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	04/06/18 07:14	04/10/18 15:57	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.73**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-07 **Lab ID: 40157703008** Collected: 06/15/17 12:32 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**221**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**452**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**237**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**68.8J**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	11096-82-5	
PCB, Total	**980**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 16:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		2	04/06/18 07:14	04/10/18 16:13	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		2	04/06/18 07:14	04/10/18 16:13	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.87**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-06 **Lab ID: 40157703009** Collected: 06/15/17 12:30 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**1310**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**829**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**313**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	11096-82-5	
PCB, Total	**2450**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		5	04/06/18 07:14	04/10/18 17:01	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		5	04/06/18 07:14	04/10/18 17:01	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.8**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-05 **Lab ID: 40157703010** Collected: 06/15/17 12:28 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**891**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**474**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**114J**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	11096-82-5	
PCB, Total	**1480**	ug/kg	249	56.9	5	04/06/18 07:14	04/10/18 17:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		5	04/06/18 07:14	04/10/18 17:16	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		5	04/06/18 07:14	04/10/18 17:16	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-04 **Lab ID: 40157703011** Collected: 06/15/17 12:25 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**74.0J**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**436**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**265**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**118**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	11096-82-5	
PCB, Total	**892**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 17:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		2	04/06/18 07:14	04/10/18 17:32	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		2	04/06/18 07:14	04/10/18 17:32	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.97**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-03 **Lab ID: 40157703012** Collected: 06/15/17 12:23 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**953**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**658**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**370J**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**<114**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	11096-82-5	
PCB, Total	**1980**	ug/kg	500	114	10	04/06/18 07:14	04/11/18 15:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		10	04/06/18 07:14	04/11/18 15:03	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		10	04/06/18 07:14	04/11/18 15:03	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.71**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-02 **Lab ID: 40157703013** Collected: 06/15/17 12:20 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**619**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**518**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**231**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	11096-82-5	
PCB, Total	**1370**	ug/kg	150	34.2	3	04/06/18 07:14	04/10/18 18:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		3	04/06/18 07:14	04/10/18 18:04	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		3	04/06/18 07:14	04/10/18 18:04	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND5-170615-01-BB-01 **Lab ID: 40157703014** Collected: 06/15/17 12:18 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.7**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.7**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**327**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**143**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**26.8J**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	11096-82-5	
PCB, Total	**497**	ug/kg	99.8	22.7	2	04/06/18 07:14	04/10/18 18:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		2	04/06/18 07:14	04/10/18 18:20	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		2	04/06/18 07:14	04/10/18 18:20	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.47**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND3-170615-01-BB-05 **Lab ID: 40157703015** Collected: 06/15/17 09:55 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<172**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**806**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<172**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<172**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**2340**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**1080**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**276J**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	11096-82-5	
PCB, Total	**4510**	ug/kg	752	172	15	04/06/18 07:14	04/10/18 18:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		15	04/06/18 07:14	04/10/18 18:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		15	04/06/18 07:14	04/10/18 18:36	2051-24-3	S4
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.9**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND3-170615-01-BB-04 **Lab ID: 40157703016** Collected: 06/15/17 09:53 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**152J**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**972**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**435**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**97.8J**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	11096-82-5	
PCB, Total	**1660**	ug/kg	250	56.9	5	04/06/18 07:14	04/10/18 18:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		5	04/06/18 07:14	04/10/18 18:52	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		5	04/06/18 07:14	04/10/18 18:52	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND3-170615-01-BB-03 **Lab ID: 40157703017** Collected: 06/15/17 09:49 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**220**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**160**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**196**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	11096-82-5	
PCB, Total	**577**	ug/kg	50.2	11.4	1	04/06/18 07:14	04/10/18 19:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		1	04/06/18 07:14	04/10/18 19:07	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	04/06/18 07:14	04/10/18 19:07	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND3-170615-01-BB-02 **Lab ID: 40157703018** Collected: 06/15/17 09:46 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**255J**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	53469-21-9	M6
PCB-1248 (Aroclor 1248)	**1520**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**1230**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**449J**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	11096-82-5	
PCB, Total	**3450**	ug/kg	501	114	10	04/06/18 07:14	04/10/18 19:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		10	04/06/18 07:14	04/10/18 19:23	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		10	04/06/18 07:14	04/10/18 19:23	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Sample: ND3-170615-01-BB-01 **Lab ID: 40157703019** Collected: 06/15/17 09:44 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**142J**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**1320**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**674**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**202J**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	11096-82-5	
PCB, Total	**2340**	ug/kg	250	57.0	5	04/06/18 07:14	04/10/18 20:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		5	04/06/18 07:14	04/10/18 20:43	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		5	04/06/18 07:14	04/10/18 20:43	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/04/18 14:32		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.6**	%	0.030	0.030	1		04/09/18 06:25		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

QC Batch: 285341 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157703002, 40157703003, 40157703004, 40157703006, 40157703007, 40157703008, 40157703009, 40157703010, 40157703011, 40157703012, 40157703013, 40157703014, 40157703015, 40157703016, 40157703017, 40157703018, 40157703019

METHOD BLANK: 1669842 | Matrix: Tissue
Associated Lab Samples: 40157703002, 40157703003, 40157703004, 40157703006, 40157703007, 40157703008, 40157703009, 40157703010, 40157703011, 40157703012, 40157703013, 40157703014, 40157703015, 40157703016, 40157703017, 40157703018, 40157703019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
Decachlorobiphenyl (S)	%	87	60-140		04/10/18 14:22	
Tetrachloro-m-xylene (S)	%	72	60-140		04/10/18 14:22	

LABORATORY CONTROL SAMPLE: 1669843

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	224	90	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)	%			85	60-140	

MATRIX SPIKE SAMPLE: 1669844

Parameter	Units	40157703018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114		<114			
PCB-1221 (Aroclor 1221)	ug/kg	255J		355J			
PCB-1232 (Aroclor 1232)	ug/kg	<114		<114			
PCB-1242 (Aroclor 1242)	ug/kg	<114	249	465J	186	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	1520		1650			
PCB-1254 (Aroclor 1254)	ug/kg	1230		1240			
PCB-1260 (Aroclor 1260)	ug/kg	449J		450J			
Decachlorobiphenyl (S)	%				103	60-140	
Tetrachloro-m-xylene (S)	%				88	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

SAMPLE DUPLICATE: 1669845

Parameter	Units	40157703018 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114	<114		40	
PCB-1221 (Aroclor 1221)	ug/kg	255J	280J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<114	<114		40	
PCB-1242 (Aroclor 1242)	ug/kg	<114	<114		40	
PCB-1248 (Aroclor 1248)	ug/kg	1520	1600	5	40	
PCB-1254 (Aroclor 1254)	ug/kg	1230	1270	3	40	
PCB-1260 (Aroclor 1260)	ug/kg	449J	460J		40	
Decachlorobiphenyl (S)	%	102	106	4		
Tetrachloro-m-xylene (S)	%	84	92	9		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

QC Batch: 285844 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157703001, 40157703005

METHOD BLANK: 1672269 | Matrix: Tissue
Associated Lab Samples: 40157703001, 40157703005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
Decachlorobiphenyl (S)	%	98	60-140		04/13/18 15:52	
Tetrachloro-m-xylene (S)	%	80	60-140		04/13/18 15:52	

LABORATORY CONTROL SAMPLE: 1672270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	236	95	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			95	60-140	
Tetrachloro-m-xylene (S)	%			80	60-140	

MATRIX SPIKE SAMPLE: 1672272

Parameter	Units	40157698011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg	33.3J		112			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	250	289	116	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	179		323			
PCB-1254 (Aroclor 1254)	ug/kg	107		128			
PCB-1260 (Aroclor 1260)	ug/kg	50.4		49.3J			
Decachlorobiphenyl (S)	%				96	60-140	
Tetrachloro-m-xylene (S)	%				85	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

SAMPLE DUPLICATE: 1672271

Parameter	Units	40157492016 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	76.7	76.0	1	40	
PCB-1254 (Aroclor 1254)	ug/kg	49.7J	48.5J		40	
PCB-1260 (Aroclor 1260)	ug/kg	31.3J	30.9J		40	
Decachlorobiphenyl (S)	%	92	92	0		
Tetrachloro-m-xylene (S)	%	85	86	2		

SAMPLE DUPLICATE: 1672273

Parameter	Units	40157698011 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	33.3J	29.9J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	179	157	13	40	
PCB-1254 (Aroclor 1254)	ug/kg	107	92.8	15	40	
PCB-1260 (Aroclor 1260)	ug/kg	50.4	42.4J		40	
Decachlorobiphenyl (S)	%	95	92	2		
Tetrachloro-m-xylene (S)	%	83	83	0		

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 M
Pace Project No.: 40157703

QC Batch: 285344 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157703002, 40157703003, 40157703004, 40157703006, 40157703007, 40157703008, 40157703009, 40157703010, 40157703011, 40157703012, 40157703013, 40157703014, 40157703015, 40157703016, 40157703017, 40157703018, 40157703019

METHOD BLANK: 1669846 | Matrix: Tissue
Associated Lab Samples: 40157703002, 40157703003, 40157703004, 40157703006, 40157703007, 40157703008, 40157703009, 40157703010, 40157703011, 40157703012, 40157703013, 40157703014, 40157703015, 40157703016, 40157703017, 40157703018, 40157703019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/09/18 06:25	

MATRIX SPIKE SAMPLE: 1682606

Parameter	Units	40157703018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	1.1		1.1			

SAMPLE DUPLICATE: 1669849

Parameter	Units	40157703018 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.1	1.0	0	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

QC Batch: 285997 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157703001, 40157703005

METHOD BLANK: 1673137 | Matrix: Tissue
Associated Lab Samples: 40157703001, 40157703005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/13/18 06:30	

MATRIX SPIKE SAMPLE: 1683130

Parameter	Units	40157698011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.26		0.25			

SAMPLE DUPLICATE: 1673139

Parameter	Units	40157492016 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.32	0.30	9	40	

SAMPLE DUPLICATE: 1673141

Parameter	Units	40157698011 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.26	0.20	28	40	

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(920)469-2436

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Sample was re-analyzed due to incorrect dilution.
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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157703001	**TD1-170615-01-YB-02**	EPA 3541	285844	EPA 8082A Mod	286018
40157703002	**TD1-170615-01-BB-03**	EPA 3541	285341	EPA 8082A Mod	285493
40157703003	**TD1-170615-01-BB-02**	EPA 3541	285341	EPA 8082A Mod	285493
40157703004	**SW1-170615-01-BB-05**	EPA 3541	285341	EPA 8082A Mod	285493
40157703005	**ND5-170615-01-YB-01**	EPA 3541	285844	EPA 8082A Mod	286018
40157703006	**ND5-170615-01-BB-09**	EPA 3541	285341	EPA 8082A Mod	285493
40157703007	**ND5-170615-01-BB-08**	EPA 3541	285341	EPA 8082A Mod	285493
40157703008	**ND5-170615-01-BB-07**	EPA 3541	285341	EPA 8082A Mod	285493
40157703009	**ND5-170615-01-BB-06**	EPA 3541	285341	EPA 8082A Mod	285493
40157703010	**ND5-170615-01-BB-05**	EPA 3541	285341	EPA 8082A Mod	285493
40157703011	**ND5-170615-01-BB-04**	EPA 3541	285341	EPA 8082A Mod	285493
40157703012	**ND5-170615-01-BB-03**	EPA 3541	285341	EPA 8082A Mod	285493
40157703013	**ND5-170615-01-BB-02**	EPA 3541	285341	EPA 8082A Mod	285493
40157703014	**ND5-170615-01-BB-01**	EPA 3541	285341	EPA 8082A Mod	285493
40157703015	**ND3-170615-01-BB-05**	EPA 3541	285341	EPA 8082A Mod	285493
40157703016	**ND3-170615-01-BB-04**	EPA 3541	285341	EPA 8082A Mod	285493
40157703017	**ND3-170615-01-BB-03**	EPA 3541	285341	EPA 8082A Mod	285493
40157703018	**ND3-170615-01-BB-02**	EPA 3541	285341	EPA 8082A Mod	285493
40157703019	**ND3-170615-01-BB-01**	EPA 3541	285341	EPA 8082A Mod	285493
40157703001	**TD1-170615-01-YB-02**	Pace Gender Typing	285164		
40157703002	**TD1-170615-01-BB-03**	Pace Gender Typing	285164		
40157703003	**TD1-170615-01-BB-02**	Pace Gender Typing	285164		
40157703004	**SW1-170615-01-BB-05**	Pace Gender Typing	285164		
40157703005	**ND5-170615-01-YB-01**	Pace Gender Typing	285164		
40157703006	**ND5-170615-01-BB-09**	Pace Gender Typing	285164		
40157703007	**ND5-170615-01-BB-08**	Pace Gender Typing	285164		
40157703008	**ND5-170615-01-BB-07**	Pace Gender Typing	285164		
40157703009	**ND5-170615-01-BB-06**	Pace Gender Typing	285164		
40157703010	**ND5-170615-01-BB-05**	Pace Gender Typing	285164		
40157703011	**ND5-170615-01-BB-04**	Pace Gender Typing	285164		
40157703012	**ND5-170615-01-BB-03**	Pace Gender Typing	285164		
40157703013	**ND5-170615-01-BB-02**	Pace Gender Typing	285164		
40157703014	**ND5-170615-01-BB-01**	Pace Gender Typing	285164		
40157703015	**ND3-170615-01-BB-05**	Pace Gender Typing	285164		
40157703016	**ND3-170615-01-BB-04**	Pace Gender Typing	285164		
40157703017	**ND3-170615-01-BB-03**	Pace Gender Typing	285164		
40157703018	**ND3-170615-01-BB-02**	Pace Gender Typing	285164		
40157703019	**ND3-170615-01-BB-01**	Pace Gender Typing	285164		
40157703001	**TD1-170615-01-YB-02**	Pace Lipid	285997		
40157703002	**TD1-170615-01-BB-03**	Pace Lipid	285344		
40157703003	**TD1-170615-01-BB-02**	Pace Lipid	285344		
40157703004	**SW1-170615-01-BB-05**	Pace Lipid	285344		
40157703005	**ND5-170615-01-YB-01**	Pace Lipid	285997		
40157703006	**ND5-170615-01-BB-09**	Pace Lipid	285344		
40157703007	**ND5-170615-01-BB-08**	Pace Lipid	285344		

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157703

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157703008	**ND5-170615-01-BB-07**	Pace Lipid	285344		
40157703009	**ND5-170615-01-BB-06**	Pace Lipid	285344		
40157703010	**ND5-170615-01-BB-05**	Pace Lipid	285344		
40157703011	**ND5-170615-01-BB-04**	Pace Lipid	285344		
40157703012	**ND5-170615-01-BB-03**	Pace Lipid	285344		
40157703013	**ND5-170615-01-BB-02**	Pace Lipid	285344		
40157703014	**ND5-170615-01-BB-01**	Pace Lipid	285344		
40157703015	**ND3-170615-01-BB-05**	Pace Lipid	285344		
40157703016	**ND3-170615-01-BB-04**	Pace Lipid	285344		
40157703017	**ND3-170615-01-BB-03**	Pace Lipid	285344		
40157703018	**ND3-170615-01-BB-02**	Pace Lipid	285344		
40157703019	**ND3-170615-01-BB-01**	Pace Lipid	285344		

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SSM

40157703

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170615-T11-03
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	TD1-170615-01	TD1-170615-01-YB-02	6/15/2017	15:11	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziplec
002	TD1-170615-01	TD1-170615-01-BB-03	6/15/2017	15:05	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	TD1-170615-01	TD1-170615-01-BB-02	6/15/2017	15:02	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	SW1-170615-01	SW1-170615-01-BB-05	6/15/2017	12:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	ND5-170615-01	ND5-170615-01-YB-01	6/15/2017	12:37	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	ND5-170615-01	ND5-170615-01-BB-09	6/15/2017	12:35	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	ND5-170615-01	ND5-170615-01-BB-08	6/15/2017	12:34	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	ND5-170615-01	ND5-170615-01-BB-07	6/15/2017	12:32	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	ND5-170615-01	ND5-170615-01-BB-06	6/15/2017	12:30	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	ND5-170615-01	ND5-170615-01-BB-05	6/15/2017	12:28	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature VIA FED EX →	Signature	Signature	Signature
Print Name Jim Ryan	Print Name D. Bubriak	Print Name A. Bottle	Print Name	Print Name	Print Name
Company Anchor QEA	Company PACE T=-0.4,-0.3	Company PACE	Company	Company Fedex	Company Pace
Date/Time 6/16/17 8:00	Date/Time 6/16/17 8:00	Date/Time 9/28/17 16:30	Date/Time	Date/Time 9/28/17 1000	Date/Time 9/28/17 1000

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

40157703

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170615-T11-03
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	ND5-170615-01	ND5-170615-01-BB-04	6/15/2017	12:25	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	ND5-170615-01	ND5-170615-01-BB-03	6/15/2017	12:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	ND5-170615-01	ND5-170615-01-BB-02	6/15/2017	12:20	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	ND5-170615-01	ND5-170615-01-BB-01	6/15/2017	12:18	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	ND3-170615-01	ND3-170615-01-BB-05	6/15/2017	9:55	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	ND3-170615-01	ND3-170615-01-BB-04	6/15/2017	9:53	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	ND3-170615-01	ND3-170615-01-BB-03	6/15/2017	9:49	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	ND3-170615-01	ND3-170615-01-BB-02	6/15/2017	9:46	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	ND3-170615-01	ND3-170615-01-BB-01	6/15/2017	9:44	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

← 2 ziploc

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature VIA FEDEX	Signature	Signature	Signature
Print Name Jim Ryan	Print Name D. Bubrish	Print Name D. BIRTTIG	Print Name	Print Name	Print Name
Company Anchor QEA	Company PACE T:-0.4,-0.3	Company PACE	Company	Company Fedex	Company Pace
Date/Time 6/16/17 8:00	Date/Time 6/16/17 8:00	Date/Time 9/28/17 16:30	Date/Time	Date/Time 9/29/17 1000	Date/Time 9/29/17 1000

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

Pace Analytical™

Sample Condition Upon Receipt

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

Project # WO#: 40157703

40157703

Client Name: Anchor

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

Tracking #: 409994704608/409994704619

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

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

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

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

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

Temp Blank Present: ☐ yes ☑ no

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

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

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for TN **Date:** 9-29-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157703
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at or below 1°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

C. Surrogates: All QAPP specified acceptance criteria were met. 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 ND3-170615-01-BB-02 was designated as the parent sample for the MS for extraction batch 285341 and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:10 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 MS are not applicable. The “M6” data qualifier was applied to the parent result on the final report.
3. **Matrix Spike (MS):** Batch QC was analyzed with extraction batch 285844 and one portion of the parent sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met.

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

F. Sample Duplicate: Sample ND3-170615-01-BB-02 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
TD1-170615-01-YB-02	To bring Aroclors within instrument calibration range
TD1-170615-01-BB-02	To bring Aroclors within instrument calibration range
SW1-170615-01-BB-05	To bring Aroclors within instrument calibration range
ND5-170615-01-BB-07	To bring Aroclors within instrument calibration range
ND5-170615-01-BB-06	To bring Aroclors within instrument calibration range
ND5-170615-01-BB-05	To bring Aroclors within instrument calibration range
ND5-170615-01-BB-04	To bring Aroclors within instrument calibration range
ND5-170615-01-BB-03	To bring Aroclors within instrument calibration range

Sample ID	Reason for dilution
ND5-170615-01-BB-02	To bring Aroclors within instrument calibration range
ND5-170615-01-BB-01	To bring Aroclors within instrument calibration range
ND3-170615-01-BB-05	To bring Aroclors within instrument calibration range
ND3-170615-01-BB-04	To bring Aroclors within instrument calibration range
ND3-170615-01-BB-02	To bring Aroclors within instrument calibration range
ND3-170615-01-BB-01	To bring Aroclors within instrument calibration range

H. **Reanalysis:** Sample ND5-170615-01-BB-03 was initially analyzed diluted based on screener data. Upon analysis, the sample was found to require reanalysis at a different dilution to bring individual Aroclor peaks within instrument calibration range. The sample was reported with the "1q" data qualifier on the final report to note the occurrence.

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

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

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

Name: Leigh A. Begalske Position: Quality Assurance Auditor

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157703 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1669842	1669842BLANK	87	72
1669843	1669843LCS	94	85
1669844	1669844MS	103	88
1669845	1669845DUP	106	92
40157703002	TD1-170615-01-BB-03	96	100
40157703003	TD1-170615-01-BB-02	109	97
40157703004	SW1-170615-01-BB-05	100	97
40157703006	ND5-170615-01-BB-09	85	88
40157703007	ND5-170615-01-BB-08	88	92
40157703008	ND5-170615-01-BB-07	96	93
40157703009	ND5-170615-01-BB-06	102	93
40157703010	ND5-170615-01-BB-05	99	92
40157703011	ND5-170615-01-BB-04	97	93
40157703012	ND5-170615-01-BB-03	103	88
40157703013	ND5-170615-01-BB-02	100	93
40157703014	ND5-170615-01-BB-01	90	83
40157703015	ND3-170615-01-BB-05	0*	0*
40157703016	ND3-170615-01-BB-04	100	92
40157703017	ND3-170615-01-BB-03	92	82
40157703018	ND3-170615-01-BB-02	102	84
40157703019	ND3-170615-01-BB-01	98	87

	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.: 40157703 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1672269	1672269BLANK	98	80
1672270	1672270LCS	95	80
40157703001	TD1-170615-01-YB-02	96	87
40157703005	ND5-170615-01-YB-01	96	91

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

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/06/2018

Instrument: 40GCSJ

Lab File ID: 041018.B\041018009.D

Lab Sample ID: 1669843LCS

Date Analyzed (1): 04/10/2018

LCS Lot No: 192096

SDG No.: 40157703

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	224	90	70-130

Spike Recovery: 0 out of 1 outside limits.

05/17/2018 1:34

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument: 40GCSJ

Lab File ID: 041318.B\041318010.D

Lab Sample ID: 1672270LCS

Date Analyzed (1): 04/13/2018

LCS Lot No: 192096

SDG No.: 40157703

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

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/06/2018

Instrument: 40GCSJ

Parent Sample ID: ND3-170615-01-BB-02

Matrix Spike - Sample No: 1669844MS

Date Analyzed (1): 04/10/2018

Lab File ID: 041018.B\041018030.D

SDG No.: 40157703

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	249	<114	465J	186	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument: 40GCSJ

Parent Sample ID: 40157698011

Matrix Spike - Sample No: 1672272MS

Date Analyzed (1): 04/13/2018

Lab File ID: 041318.B\041318025.D

SDG No.: 40157703

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<11.4	289	116	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/06/2018

Instrument 40GCSJ

Lab Sample ID: ND3-170615-01-BB-02

Duplicate Sample No: 40157703018DUP

Date Analyzed: 04/10/2018

Lab File ID: 041018.B\041018031.D

SDG No.: 40157703

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<114	<114		0-40
PCB-1221 (Aroclor 1221)	255J	280J		0-40
PCB-1232 (Aroclor 1232)	<114	<114		0-40
PCB-1242 (Aroclor 1242)	<114	<114		0-40
PCB-1248 (Aroclor 1248)	1520	1600	5	0-40
PCB-1254 (Aroclor 1254)	1230	1270	3	0-40
PCB-1260 (Aroclor 1260)	449J	460J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument 40GCSJ

Lab Sample ID: 40157492016

Duplicate Sample No: 40157492016DUP

Date Analyzed: 04/13/2018

Lab File ID: 041318.B\041318020.D

SDG No.: 40157703

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)	76.7	76.0	1	0-40
PCB-1254 (Aroclor 1254)	49.7J	48.5J		0-40
PCB-1260 (Aroclor 1260)	31.3J	30.9J		0-40

RPD: 0 out of 1 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument 40GCSJ

Lab Sample ID: 40157698011

Duplicate Sample No: 40157698011DUP

Date Analyzed: 04/13/2018

Lab File ID: 041318.B\041318026.D

SDG No.: 40157703

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)	33.3J	29.9J		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	179	157	13	0-40
PCB-1254 (Aroclor 1254)	107	92.8	15	0-40
PCB-1260 (Aroclor 1260)	50.4	42.4J		0-40

RPD: 0 out of 2 outside limits.

SAMPLE NO.

1669842BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157703 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1669842

Lab File ID: 041018.B\041018008.D Date Analyzed: 04/10/2018 Time:14:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1669843LCS	1669843	041018.B\041018009.D	04/10/2018 14:38
TD1-170615-01-BB-03	40157703002	041018.B\041018010.D	04/10/2018 14:54
TD1-170615-01-BB-02	40157703003	041018.B\041018011.D	04/10/2018 15:10
SW1-170615-01-BB-05	40157703004	041018.B\041018012.D	04/10/2018 15:26
ND5-170615-01-BB-09	40157703006	041018.B\041018013.D	04/10/2018 15:41
ND5-170615-01-BB-08	40157703007	041018.B\041018014.D	04/10/2018 15:57
ND5-170615-01-BB-07	40157703008	041018.B\041018015.D	04/10/2018 16:13
ND5-170615-01-BB-06	40157703009	041018.B\041018018.D	04/10/2018 17:01
ND5-170615-01-BB-05	40157703010	041018.B\041018019.D	04/10/2018 17:16
ND5-170615-01-BB-04	40157703011	041018.B\041018020.D	04/10/2018 17:32
ND5-170615-01-BB-02	40157703013	041018.B\041018022.D	04/10/2018 18:04
ND5-170615-01-BB-01	40157703014	041018.B\041018023.D	04/10/2018 18:20
ND3-170615-01-BB-05	40157703015	041018.B\041018024.D	04/10/2018 18:36
ND3-170615-01-BB-04	40157703016	041018.B\041018025.D	04/10/2018 18:52
ND3-170615-01-BB-03	40157703017	041018.B\041018026.D	04/10/2018 19:07
ND3-170615-01-BB-02	40157703018	041018.B\041018027.D	04/10/2018 19:23
1669844MS	1669844	041018.B\041018030.D	04/10/2018 20:11
1669845DUP	1669845	041018.B\041018031.D	04/10/2018 20:27
ND3-170615-01-BB-01	40157703019	041018.B\041018032.D	04/10/2018 20:43
ND5-170615-01-BB-03	40157703012	041118.B\041118006.D	04/11/2018 15:03

SAMPLE NO.

1672269BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157703 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1672269

Lab File ID: 041318.B\041318009.D Date Analyzed: 04/13/2018 Time:15:52

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1672270LCS	1672270	041318.B\041318010.D	04/13/2018 16:08
1672271DUP	1672271	041318.B\041318020.D	04/13/2018 18:46
1672273DUP	1672273	041318.B\041318026.D	04/13/2018 20:22
TD1-170615-01-YB-02	40157703001	041318.B\041318027.D	04/13/2018 20:38
ND5-170615-01-YB-01	40157703005	041318.B\041318030.D	04/13/2018 21:25

SAMPLE NO.

TD1-170615-01-YB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 40157703001
Date Analyzed: 04/13/2018 20:38
Lab File ID: 041318.B\041318027.D
Initial wt/vol: 10.0274 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	590	
11097-69-1	PCB-1254 (Aroclor 1254)	341	
11096-82-5	PCB-1260 (Aroclor 1260)	52.8	J
1336-36-3	PCB, Total	984	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318027.D
Lab Smp Id: 40157703001 Client Smp ID: TD1-170615-01-YB-02
Inj Date : 13-APR-2018 20:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703001 x2,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 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	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.970	9985	5778	0.579	0.01		
2.485	5363157	4958065	0.924	9.93	$ 2 Tetrachloro-m-xylene	
2.789	14554	11820	0.812	0.02		
2.850	15786	13024	0.825	0.02		
2.976	23391	14792	0.632	0.04		
3.018	18751	19914	1.062	0.03		
3.316	19946	15837	0.794	0.03		
3.342	14826	14998	1.012	0.02		
3.432	9574	9324	0.974	0.01		
3.520	90555	83067	0.917	0.16		
3.732	104754	83325	0.795	0.18		
3.827	1113174	882049	0.792	1.96		
3.937	59232	35599	0.601	0.10		
3.994	187340	171058	0.913	0.33		
4.058	75540	66507	0.880	0.13		
4.215	1779838	1627596	0.914	3.14		
4.261	1501993	1410466	0.939	2.65	6 Aroclor 1248	BA
4.292	2440913	2024335	0.829	4.31		
4.416	967562	924741	0.956	1.71		
4.452	453978	411916	0.907	0.80		
4.545	1525051	1395957	0.915	2.69	6 Aroclor 1248	BA
4.588	96708	90831	0.939	0.17		
4.617	97399	82752	0.850	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	66589	54426	0.817	0.11	
4.737	102833	78398	0.762	0.18	
4.767	339456	317741	0.936	0.60	
4.813	1611818	1494019	0.927	2.85	6 Aroclor 1248
4.847	582204	562251	0.966	1.03	
4.878	3533349	2445912	0.692	6.25	6 Aroclor 1248
4.956	397850	335418	0.843	0.70	
5.036	1633297	1473656	0.902	2.89	6 Aroclor 1248
5.100	830074	727825	0.877	1.46	
5.161	1891228	1665967	0.881	3.34	7 Aroclor 1254
5.212	1584924	1419804	0.896	2.80	
5.282	153742	138058	0.898	0.27	
5.309	259131	223967	0.864	0.45	
5.362	646506	584488	0.904	1.14	
5.406	1447462	1246659	0.861	2.56	7 Aroclor 1254
5.445	1164787	974434	0.837	2.06	
5.479	95864	97835	1.021	0.16	
5.509	2227054	1974458	0.887	3.94	7 Aroclor 1254
5.576	70968	60493	0.852	0.12	
5.603	265279	235394	0.887	0.46	
5.674	335608	311182	0.927	0.59	
5.711	295587	221875	0.751	0.52	
5.741	485227	342690	0.706	0.85	
5.790	3057150	2344819	0.767	5.40	
5.887	334458	219800	0.657	0.59	
5.930	137390	108495	0.790	0.24	
5.992	370703	349899	0.944	0.65	
6.024	1796539	1568984	0.873	3.17	7 Aroclor 1254
6.055	1414128	1169445	0.827	2.50	
6.167	433688	320015	0.738	0.76	
6.226	192112	191952	0.999	0.33	
6.240	217654	184921	0.850	0.38	
6.299	2313412	1876762	0.811	4.09	7 Aroclor 1254
6.332	311235	277508	0.892	0.55	
6.373	140837	114145	0.810	0.24	
6.430	164862	124005	0.752	0.29	
6.509	495594	447814	0.904	0.87	
6.534	482141	420381	0.872	0.85	
6.558	155833	145269	0.932	0.27	
6.603	91814	72941	0.794	0.16	
6.658	41476	37012	0.892	0.07	
6.717	225559	190388	0.844	0.39	
6.758	206944	183058	0.885	0.36	
6.801	361641	325581	0.900	0.63	
6.841	111591	89707	0.804	0.19	
6.914	17544	16987	0.968	0.03	
6.942	198897	173738	0.874	0.35	
7.004	543587	494434	0.910	0.96	8 Aroclor 1260
7.033	54371	49234	0.906	0.09	
7.074	12985	12005	0.924	0.02	
7.121	27065	21588	0.798	0.04	
7.250	279978	252846	0.903	0.49	8 Aroclor 1260
7.279	101935	78543	0.771	0.18	
7.337	12728	10590	0.832	0.02	
7.388	167888	140527	0.837	0.29	
7.440	165757	134465	0.811	0.29	8 Aroclor 1260
7.551	11529	11563	1.003	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.688	46116	47225	1.024	0.08	
7.727	60717	41925	0.691	0.10	
7.811	65152	42018	0.645	0.11	
7.899	111176	91168	0.820	0.19	8 Aroclor 1260
7.958	16956	11381	0.671	0.03	
8.048	129042	108372	0.840	0.22	
8.140	11066	7332	0.663	0.01	
8.273	100600	93725	0.932	0.17	
8.568	5279050	4602812	0.872	9.34	$ 12 Decachlorobiphenyl
8.722	13715	12994	0.947	0.02	
9.053	14991	12356	0.824	0.02	
9.163	10392	10404	1.001	0.01	
	56514842	48581834		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318027.D
Lab Smp Id: 40157703001 Client Smp ID: TD1-170615-01-YB-02
Inj Date : 13-APR-2018 20:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703001 x2,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 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	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.485	2.484	0.001	5363157	0.04350	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1501992	0.64106	640	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1525051	0.36746	370	0.00- 20.00	101.54	BA
4.812	4.812	0.000	1611817	0.79397	790	0.00- 20.00	107.31	BA
4.878	4.879	-0.001	3533349	0.70142	700	0.00- 20.00	235.24	BA
5.036	5.038	-0.002	1633296	0.45514	450	0.00- 20.00	108.74	BA
Average of Peak Concentrations =					590			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1891228	0.36125	360	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1447462	0.33654	340	0.00- 20.00	76.54	BA
5.508	5.510	-0.002	2227054	0.28677	280	0.00- 20.00	117.76	BA
6.023	6.027	-0.004	1796539	0.36892	370	0.00- 20.00	94.99	BA
6.298	6.299	-0.001	2313411	0.35552	350	0.00- 20.00	122.32	BA
Average of Peak Concentrations =					340			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	543586	0.05428	54	0.00- 20.00	23.50	BA
7.249	7.251	-0.002	279977	0.05858	58	0.00- 20.00	12.10	BA
7.440	7.443	-0.003	165757	0.05686	57	0.00- 20.00	7.17	BA
7.899	7.901	-0.002	111176	0.04213	42	0.00- 20.00	4.81	BA
Average of Peak Concentrations =					53			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5279050	0.04818	48			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318027.D

Date : 13-APR-2018 20:38

Client ID: TD1-170615-01-YB-02

Instrument: 40GCSJ.i

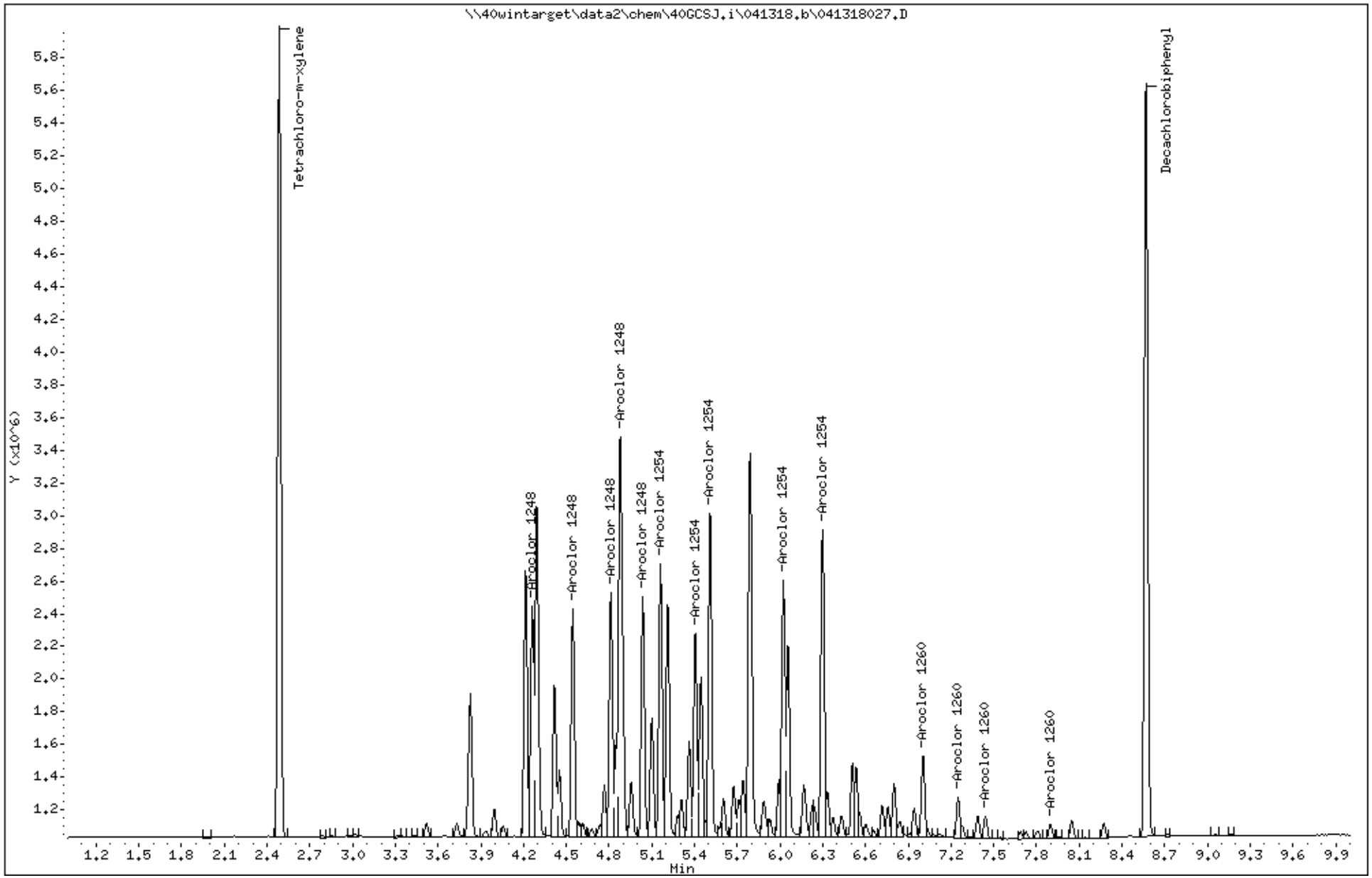
Sample Info: 40157703001 x2,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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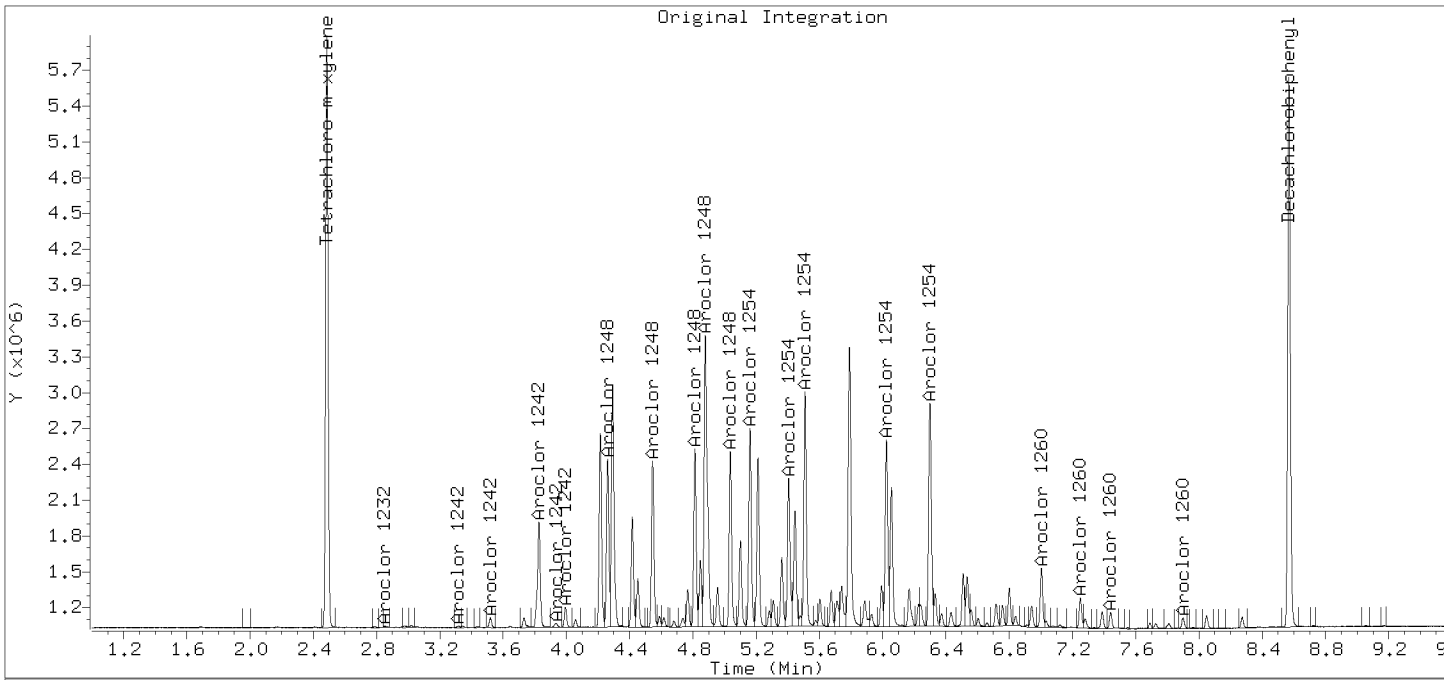
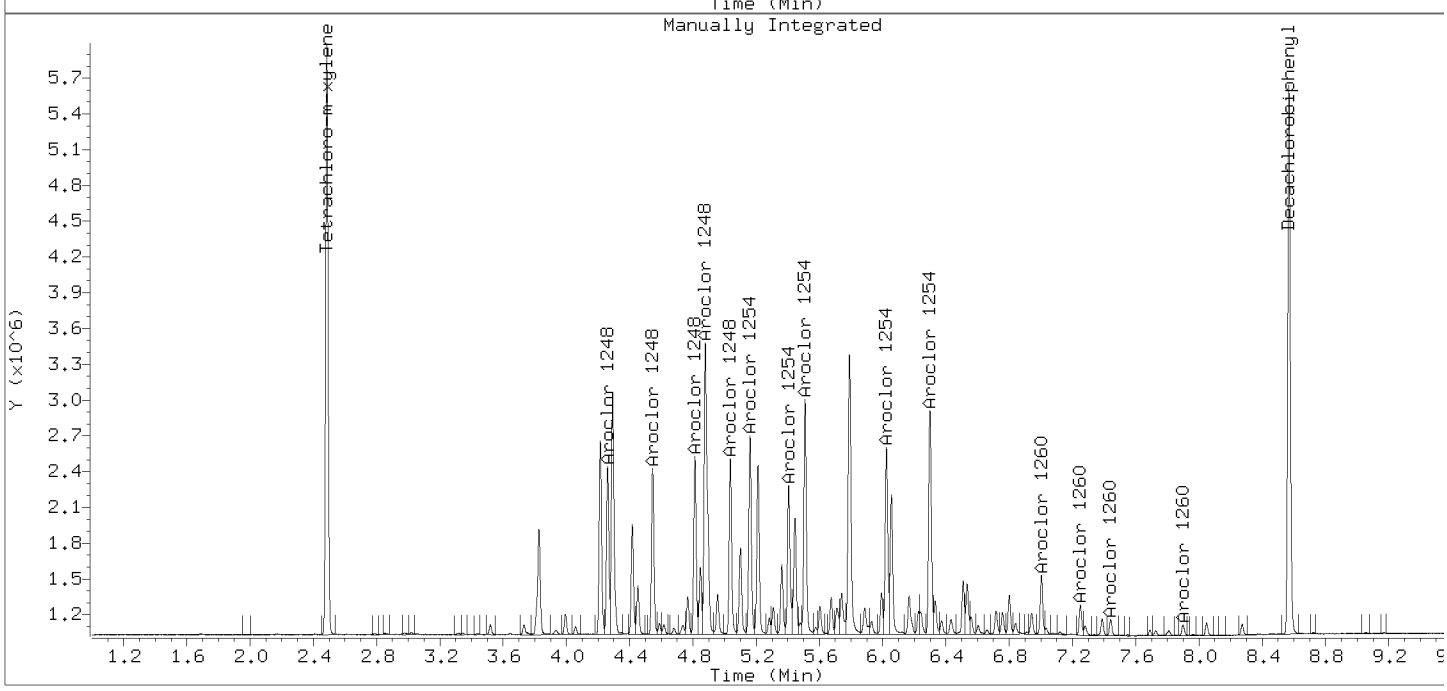
Injection Date: 13-APR-2018 20:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	19945	0	
Aroclor 1016	19945	0	
Aroclor 1016	19945	0	
Aroclor 1016	19945	0	
Aroclor 1016	19945	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	15785	0	
Aroclor 1232	15785	0	
Aroclor 1232	15785	0	
Aroclor 1232	15785	0	

Aroclor 1232	15785	0	
Aroclor 1242	19945	0	
Aroclor 1242	19945	0	
Aroclor 1242	19945	0	
Aroclor 1242	19945	0	
Aroclor 1242	19945	0	
Aroclor 1248	1487972	1501992	BA
Aroclor 1248	1487972	1501992	BA
Aroclor 1248	1487972	1501992	BA
Aroclor 1248	1487972	1501992	BA
Aroclor 1248	1487972	1501992	BA
Aroclor 1254	1868390	1891228	BA
Aroclor 1254	1868390	1891228	BA
Aroclor 1254	1868390	1891228	BA
Aroclor 1254	1868390	1891228	BA
Aroclor 1254	1868390	1891228	BA
Aroclor 1260	2286308	0	BA
Aroclor 1260	2286308	0	BA
Aroclor 1260	2286308	0	BA
Aroclor 1260	2286308	0	BA
Aroclor 1260	2286308	0	BA
Tetrachloro-m-xylene	5363157	5363157	
Decachlorobiphenyl	5279050	5279050	

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SAMPLE NO.

TD1-170615-01-BB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 09/29/2017 10:00

Matrix: Tissue SDG No.: 40157703

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 40157703002

Date Analyzed: 04/10/2018 14:54

Lab File ID: 041018.B\041018010.D

Initial wt/vol: 10.0121 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)	154	
11097-69-1	PCB-1254 (Aroclor 1254)	100	
11096-82-5	PCB-1260 (Aroclor 1260)	17.4	J
1336-36-3	PCB, Total	271	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018010.D
Lab Smp Id: 40157703002 Client Smp ID: TD1-170615-01-BB-03
Inj Date : 10-APR-2018 14:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703002,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	10.012	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	9994	9465	0.947	0.01		
1.540	17202	9875	0.574	0.03		
1.955	20082	11840	0.590	0.03		
2.199	33914	20753	0.612	0.06		
2.283	13099	7478	0.571	0.02		
2.316	11209	11398	1.017	0.02		
2.409	84603	60350	0.713	0.16		
2.486	12374647	11081480	0.895	23.88	$ 2 Tetrachloro-m-xylene	
2.787	35090	25702	0.732	0.06		
2.852	92774	77503	0.835	0.17		
2.976	47530	30020	0.632	0.09		
3.020	66114	63480	0.960	0.12		
3.055	54522	46670	0.856	0.10		
3.319	76000	71483	0.941	0.14		
3.344	61589	53443	0.868	0.11		
3.434	138106	130901	0.948	0.26		
3.519	210148	190219	0.905	0.39		
3.646	21210	19300	0.910	0.04		
3.733	143285	116860	0.816	0.27		
3.827	803757	518927	0.646	1.52		
3.937	96883	64887	0.670	0.18		
3.994	155022	137374	0.886	0.29		
4.059	96610	73231	0.758	0.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.134	27539	19210	0.698	0.05	
4.215	722431	641423	0.888	1.36	
4.261	888762	846248	0.952	1.68	6 Aroclor 1248
4.292	1117959	904846	0.809	2.11	
4.348	33465	20499	0.613	0.06	
4.417	679055	622920	0.917	1.28	
4.453	368942	322453	0.874	0.69	
4.545	1005182	914183	0.909	1.90	6 Aroclor 1248
4.589	64343	58589	0.911	0.12	
4.617	147455	103584	0.702	0.27	
4.680	59873	43053	0.719	0.11	
4.737	79364	56916	0.717	0.15	
4.767	169735	151448	0.892	0.32	
4.812	701240	646416	0.922	1.32	6 Aroclor 1248
4.847	353134	320987	0.909	0.66	
4.878	1762945	1140418	0.647	3.34	6 Aroclor 1248
4.956	250757	193602	0.772	0.47	
5.036	797462	690917	0.866	1.51	6 Aroclor 1248
5.101	633624	521365	0.823	1.20	
5.161	940595	820896	0.873	1.78	7 Aroclor 1254
5.212	903249	773758	0.857	1.71	
5.284	105790	98390	0.930	0.20	
5.310	240425	200887	0.836	0.45	
5.362	427008	354360	0.830	0.80	
5.406	779079	662029	0.850	1.47	7 Aroclor 1254
5.449	1114873	955235	0.857	2.11	
5.477	74763	80389	1.075	0.14	
5.509	1546276	1324972	0.857	2.92	7 Aroclor 1254
5.576	58665	45919	0.783	0.11	
5.603	227262	178497	0.785	0.43	
5.674	259522	223481	0.861	0.49	
5.710	215479	150245	0.697	0.40	
5.742	290656	209005	0.719	0.55	
5.790	1656202	1343976	0.811	3.13	
5.819	205539	178508	0.868	0.38	
5.884	235398	123836	0.526	0.44	
5.931	127436	84246	0.661	0.24	
5.993	311326	279553	0.898	0.58	
6.024	880349	781096	0.887	1.66	7 Aroclor 1254
6.054	987580	806127	0.816	1.87	
6.169	291486	188252	0.646	0.55	
6.242	314785	157302	0.500	0.59	
6.299	1715885	1387389	0.809	3.25	7 Aroclor 1254
6.331	222354	184036	0.828	0.42	
6.373	109847	73208	0.666	0.20	
6.432	154718	93472	0.604	0.29	
6.509	339479	310207	0.914	0.64	
6.535	508832	350304	0.688	0.96	
6.605	68529	48982	0.715	0.12	
6.659	45871	32410	0.707	0.08	
6.717	160598	120705	0.752	0.30	
6.758	174691	139443	0.798	0.33	
6.801	215768	182248	0.845	0.40	
6.838	84978	62294	0.733	0.16	
6.910	21550	17071	0.792	0.04	
6.941	141630	122421	0.864	0.26	
7.002	337832	299329	0.886	0.64	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.032	29938	31238	1.043	0.05	
7.124	30021	20847	0.694	0.05	
7.249	175079	161317	0.921	0.33	8 Aroclor 1260
7.280	85230	58733	0.689	0.16	
7.339	21172	17233	0.814	0.04	
7.388	86570	82925	0.958	0.16	
7.442	119370	90235	0.756	0.22	8 Aroclor 1260
7.492	26964	14319	0.531	0.05	
7.576	11807	11204	0.949	0.02	
7.690	34172	32730	0.958	0.06	
7.727	65526	53304	0.813	0.12	
7.764	21489	17289	0.805	0.04	
7.808	81953	45611	0.557	0.15	
7.899	73292	56392	0.769	0.13	8 Aroclor 1260
8.050	72493	61582	0.849	0.13	
8.273	126514	110786	0.876	0.23	
8.377	21323	16884	0.792	0.04	
8.447	14028	13877	0.989	0.02	
8.569	10553072	9223877	0.874	19.99	$ 12 Decachlorobiphenyl
8.723	19502	15496	0.795	0.03	
9.049	18709	11830	0.632	0.03	
9.166	69580	58114	0.835	0.13	
	52780768	44702017		100.000	

Total unknown % area = 34

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018010.D
Lab Smp Id: 40157703002 Client Smp ID: TD1-170615-01-BB-03
Inj Date : 10-APR-2018 14:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703002,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	10.012	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.485	2.484	0.001	12374647	0.10037	50			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	888761	0.37933	190	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1005181	0.24219	120	0.00- 20.00	113.10	BA
4.812	4.812	0.000	701240	0.34542	170	0.00- 20.00	78.90	BA
4.878	4.879	-0.001	1762944	0.34997	170	0.00- 20.00	198.36	BA
5.036	5.038	-0.002	797461	0.22222	110	0.00- 20.00	89.73	BA
Average of Peak Concentrations =					150			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	940595	0.17967	90	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	779078	0.18114	90	0.00- 20.00	82.83	BA
5.508	5.510	-0.002	1546276	0.19911	99	0.00- 20.00	164.39	BA
6.023	6.027	-0.004	880348	0.18078	90	0.00- 20.00	93.59	BA
6.299	6.299	0.000	1715885	0.26369	130	0.00- 20.00	182.43	BA
Average of Peak Concentrations =					100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.002	7.006	-0.004	337831	0.03373	17	0.00- 20.00	21.40	CO
7.249	7.251	-0.002	175078	0.03663	18	0.00- 20.00	10.20	CO
7.441	7.443	-0.002	119369	0.04095	20	0.00- 20.00	6.96	CO
7.898	7.901	-0.003	73292	0.02778	14	0.00- 20.00	4.27	CO
Average of Peak Concentrations =					17			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10553072	0.09632	48			

QC Flag Legend

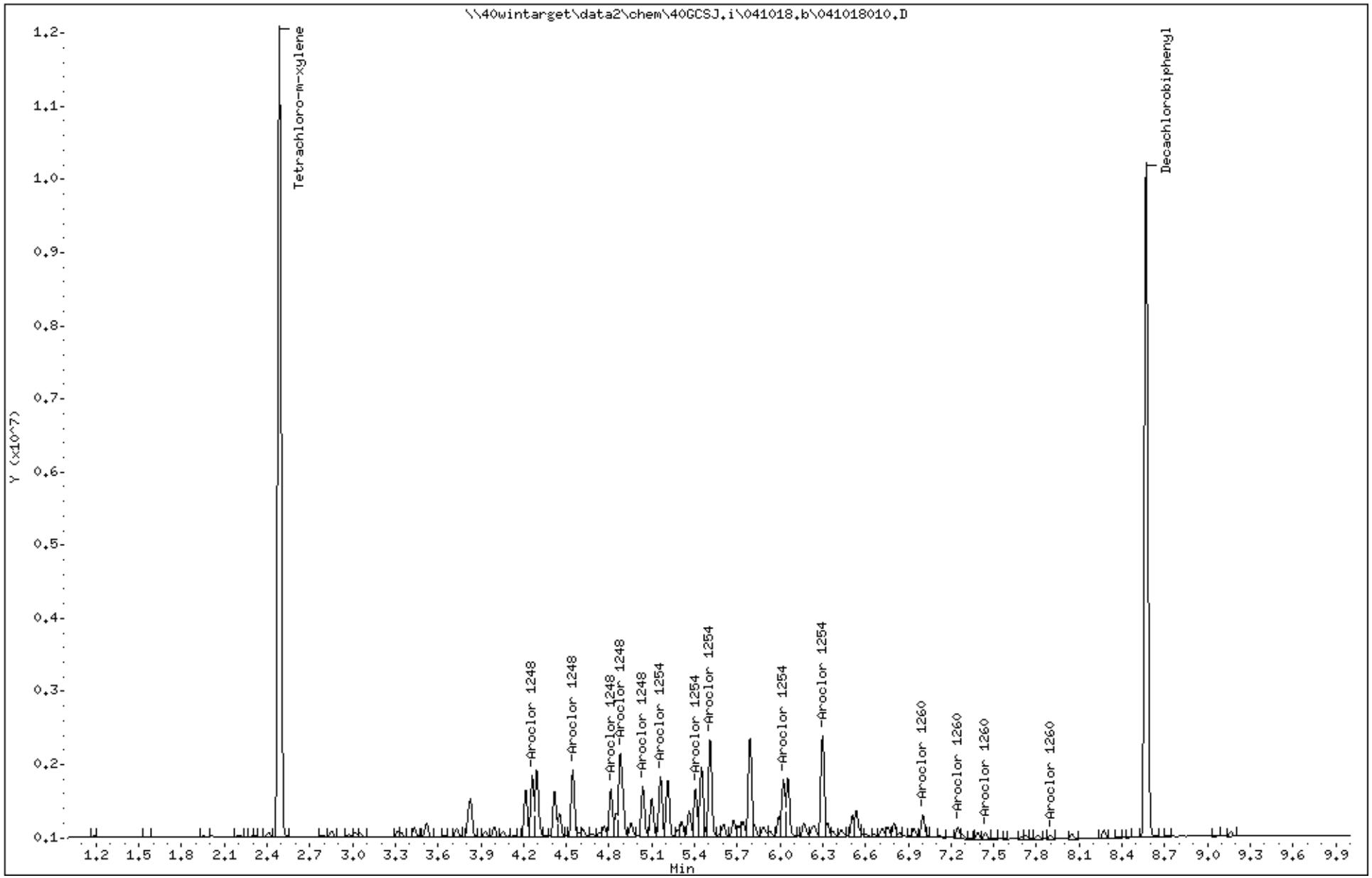
M - Compound response manually integrated.

Review Codes Legend

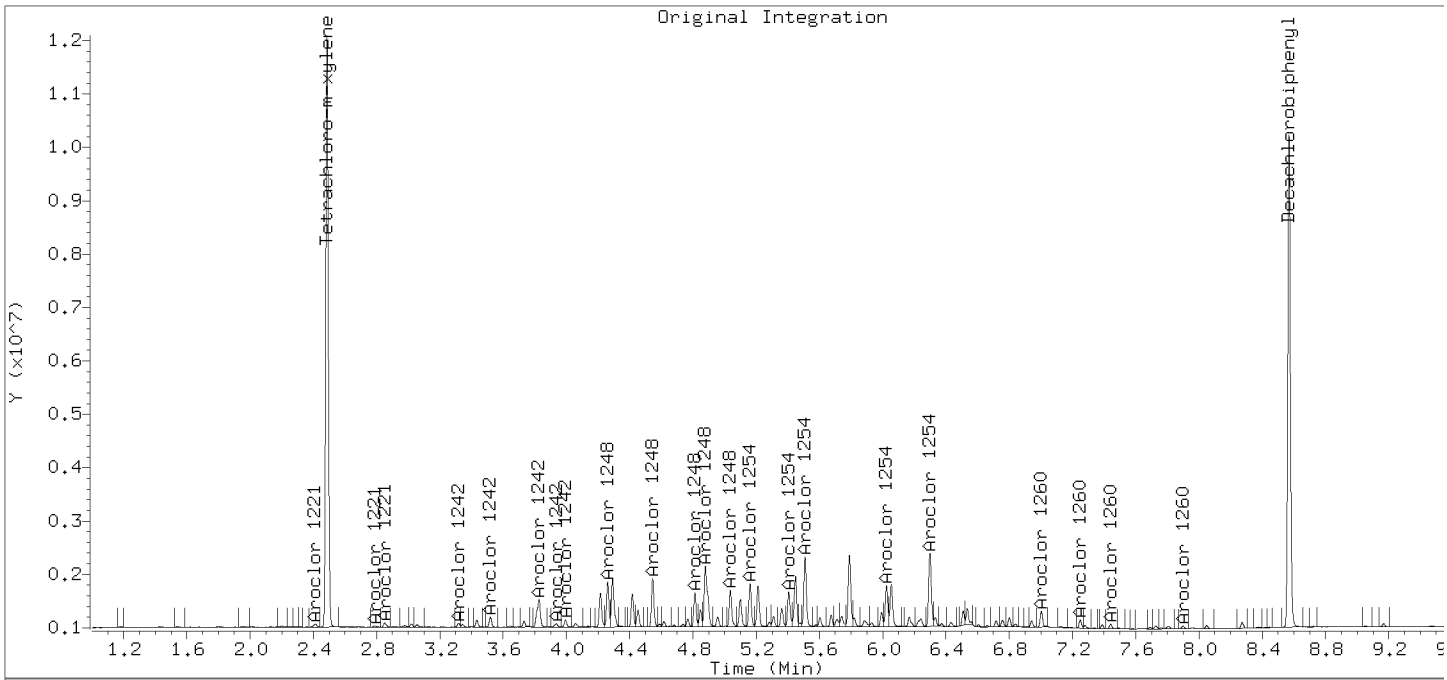
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

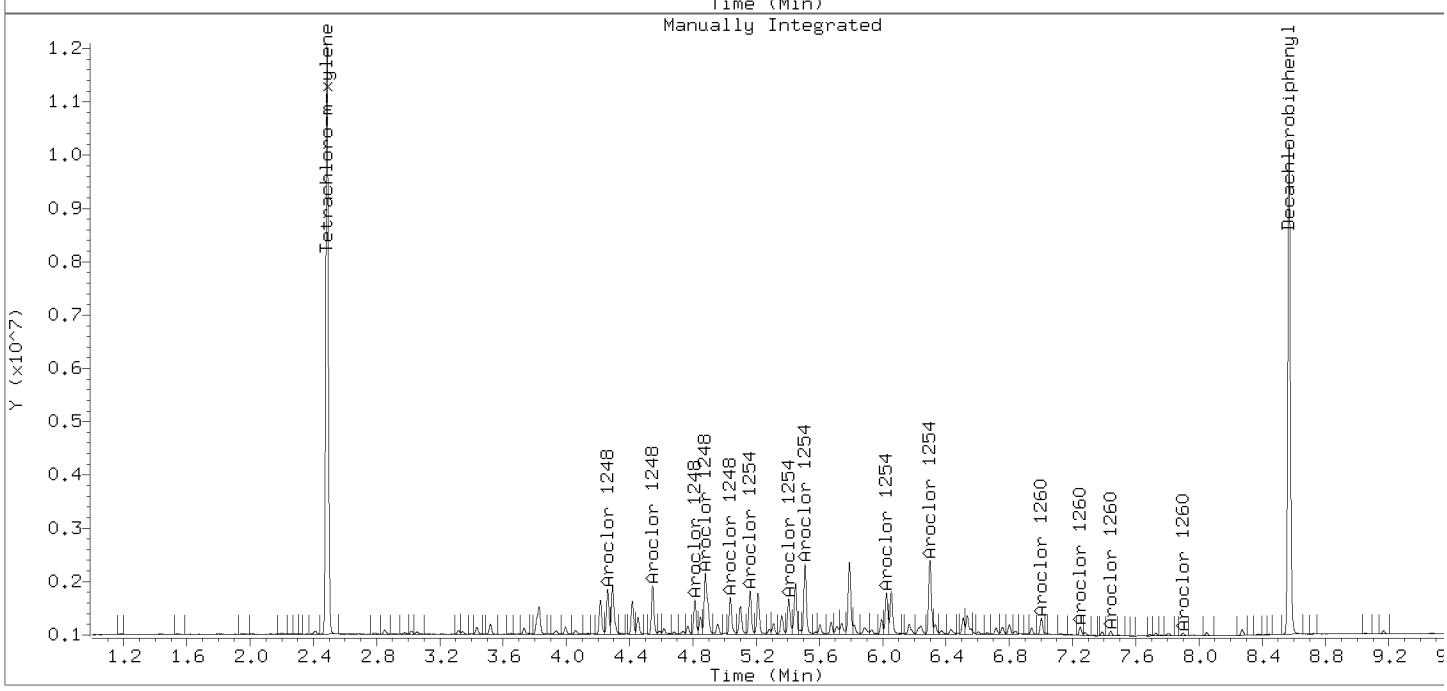
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018010.D
Date : 10-APR-2018 14:54
Client ID: TD1-170615-01-BB-03
Sample Info: 40157703002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 14:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	76000	0	
Aroclor 1016	76000	0	
Aroclor 1016	76000	0	
Aroclor 1016	76000	0	
Aroclor 1016	76000	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	92774	0	
Aroclor 1232	92774	0	
Aroclor 1232	92774	0	
Aroclor 1232	92774	0	

Aroclor 1232	92774	0	
Aroclor 1242	76000	0	
Aroclor 1242	76000	0	
Aroclor 1242	76000	0	
Aroclor 1242	76000	0	
Aroclor 1242	76000	0	
Aroclor 1248	878044	888761	BA
Aroclor 1248	878044	888761	BA
Aroclor 1248	878044	888761	BA
Aroclor 1248	878044	888761	BA
Aroclor 1248	878044	888761	BA
Aroclor 1254	902106	940595	BA
Aroclor 1254	902106	940595	BA
Aroclor 1254	902106	940595	BA
Aroclor 1254	902106	940595	BA
Aroclor 1254	902106	940595	BA
Aroclor 1260	1647494	0	CO
Aroclor 1260	1647494	0	CO
Aroclor 1260	1647494	0	CO
Aroclor 1260	1647494	0	CO
Aroclor 1260	1647494	0	CO
Tetrachloro-m-xylene	12374647	12374647	
Decachlorobiphenyl	10553072	10553072	

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SAMPLE NO.

TD1-170615-01-BB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 09/29/2017 10:00

Matrix: Tissue SDG No.: 40157703

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 40157703003

Date Analyzed: 04/10/2018 15:10

Lab File ID: 041018.B\041018011.D

Initial wt/vol: 9.997 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<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)	1310	
11097-69-1	PCB-1254 (Aroclor 1254)	784	
11096-82-5	PCB-1260 (Aroclor 1260)	242	J
1336-36-3	PCB, Total	2330	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018011.D
Lab Smp Id: 40157703003 Client Smp ID: TD1-170615-01-BB-02
Inj Date : 10-APR-2018 15:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703003 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
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	9.997	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.178	9720	6634	0.683	0.03		
2.410	11210	9108	0.812	0.03		
2.485	1195483	1128072	0.944	4.25	$ 2 Tetrachloro-m-xylene	
2.977	14908	11225	0.753	0.05		
3.019	15139	14463	0.955	0.05		
3.316	28498	26492	0.930	0.10		
3.343	13920	12846	0.923	0.04		
3.434	53247	44112	0.828	0.18		
3.518	80270	74918	0.933	0.28		
3.643	32311	28749	0.890	0.11		
3.732	240745	213783	0.888	0.85		
3.826	770510	439665	0.571	2.74		
3.938	42907	31535	0.735	0.15		
3.993	89195	77309	0.867	0.31		
4.057	51626	41852	0.811	0.18		
4.214	677829	586962	0.866	2.41		
4.261	917048	888325	0.969	3.26	6 Aroclor 1248	BA
4.292	2033729	1682214	0.827	7.71		
4.348	34679	24700	0.712	0.12		
4.417	316078	295148	0.934	1.12		
4.452	234550	205698	0.877	0.83		
4.546	867680	811011	0.935	3.09	6 Aroclor 1248	BA
4.588	169164	152803	0.903	0.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	56979	46800	0.821	0.20	
4.678	137063	117523	0.857	0.48	
4.735	134170	114310	0.852	0.47	
4.768	369140	340642	0.923	1.31	
4.813	643361	605050	0.940	2.29	6 Aroclor 1248
4.848	208468	194447	0.933	0.74	
4.879	1460431	720561	0.493	5.20	6 Aroclor 1248
4.956	298514	241031	0.807	1.06	
5.038	354742	302990	0.854	1.26	6 Aroclor 1248
5.101	874004	763821	0.874	3.11	
5.159	695609	570751	0.821	2.47	7 Aroclor 1254
5.211	716701	594335	0.829	2.55	
5.282	136053	133768	0.983	0.48	
5.306	294976	245694	0.833	1.05	
5.362	224206	206327	0.920	0.79	
5.406	657258	587792	0.894	2.34	7 Aroclor 1254
5.447	425356	340116	0.800	1.51	
5.478	119992	113078	0.942	0.42	
5.510	1154792	987062	0.855	4.11	7 Aroclor 1254
5.577	70096	63240	0.902	0.24	
5.603	131737	112090	0.851	0.46	
5.673	490506	460805	0.939	1.74	
5.709	243745	205945	0.845	0.86	
5.741	292227	232983	0.797	1.04	
5.790	1369702	1045346	0.763	4.87	
5.883	194873	144967	0.744	0.69	
5.931	193658	157495	0.813	0.68	
5.992	375015	346811	0.925	1.33	
6.025	622819	513978	0.825	2.21	7 Aroclor 1254
6.055	617265	512445	0.830	2.19	
6.168	241298	128905	0.534	0.85	
6.241	224113	115561	0.516	0.79	
6.301	1442443	1162258	0.806	5.13	7 Aroclor 1254
6.331	135377	118935	0.879	0.48	
6.370	68110	50528	0.742	0.24	
6.431	224197	193352	0.862	0.79	
6.509	462348	416220	0.900	1.64	
6.535	235994	209934	0.890	0.84	
6.560	98628	89089	0.903	0.35	
6.605	44813	34328	0.766	0.15	
6.660	27597	24113	0.874	0.09	
6.718	135933	118785	0.874	0.48	
6.758	181279	159144	0.878	0.64	
6.800	166764	144391	0.866	0.59	
6.838	90622	70740	0.781	0.32	
6.912	20370	19442	0.954	0.07	
6.942	76441	67129	0.878	0.27	
7.003	368911	318240	0.863	1.31	8 Aroclor 1260
7.035	45449	40992	0.902	0.16	
7.070	8430	8499	1.008	0.03	
7.122	20615	17284	0.838	0.07	
7.251	193902	172389	0.889	0.69	8 Aroclor 1260
7.279	71110	53519	0.753	0.25	
7.387	167158	153789	0.920	0.59	
7.442	181733	151340	0.833	0.64	8 Aroclor 1260
7.551	16539	11869	0.718	0.05	
7.691	48139	42503	0.883	0.17	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.724	42700	37643	0.882	0.15	
7.801	35409	18106	0.511	0.12	
7.899	141958	121537	0.856	0.50	8 Aroclor 1260
7.955	18381	13325	0.725	0.06	
8.045	15463	12890	0.834	0.05	
8.274	111442	99586	0.894	0.39	
8.569	1198456	987376	0.824	4.26	$ 12 Decachlorobiphenyl
8.942	10005	9410	0.941	0.03	
9.163	19644	15808	0.805	0.06	
9.960	18326	12859	0.702	0.06	
	28073999	23251645		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018011.D
Lab Smp Id: 40157703003 Client Smp ID: TD1-170615-01-BB-02
Inj Date : 10-APR-2018 15:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703003 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
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	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

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

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

2.484	2.484	0.000	1195482	0.00970	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

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			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	917048	0.39140	2000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	867680	0.20906	1000	0.00- 20.00	94.62	BA
4.812	4.812	0.000	643360	0.31691	1600	0.00- 20.00	70.16	BA
4.878	4.879	-0.001	1460431	0.28991	1400	0.00- 20.00	159.25	BA
5.037	5.038	-0.001	354741	0.09885	490	0.00- 20.00	38.68	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	695609	0.13287	660	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	657257	0.15281	760	0.00- 20.00	94.49	BA
5.509	5.510	-0.001	1154791	0.14870	740	0.00- 20.00	166.01	BA
6.024	6.027	-0.003	622818	0.12790	640	0.00- 20.00	89.54	BA
6.301	6.299	0.002	1442442	0.22167	1100	0.00- 20.00	207.36	BA
Average of Peak Concentrations =					780			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	368910	0.03684	180	0.00- 20.00	0.00	BA
7.250	7.251	-0.001	193901	0.04057	200	0.00- 20.00	0.00	BA
7.441	7.443	-0.002	181733	0.06234	310	0.00- 20.00	0.00	BA
7.899	7.901	-0.002	141957	0.05380	270	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					240			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	1198456	0.01094	55			

QC Flag Legend

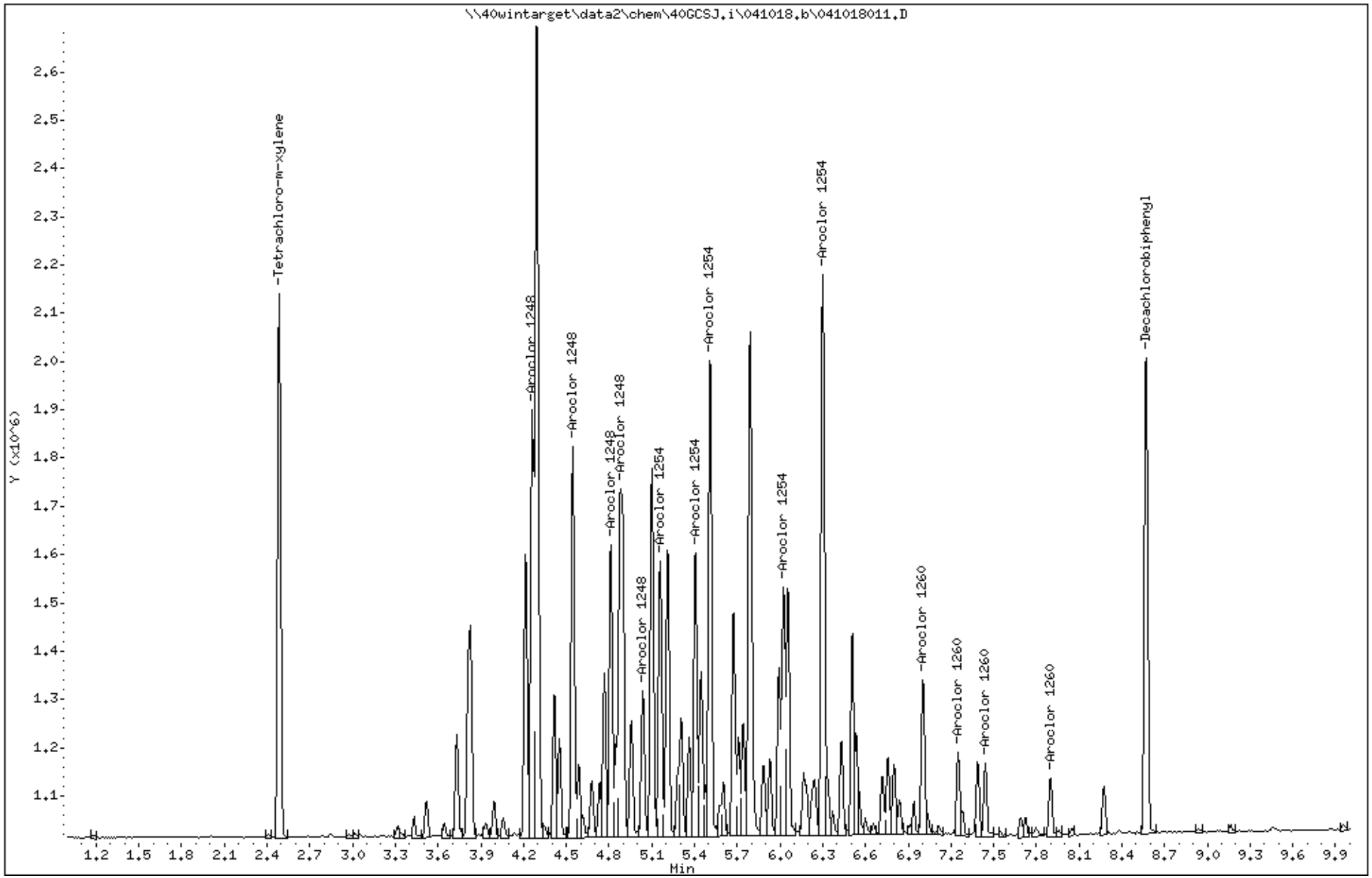
M - Compound response manually integrated.

Review Codes Legend

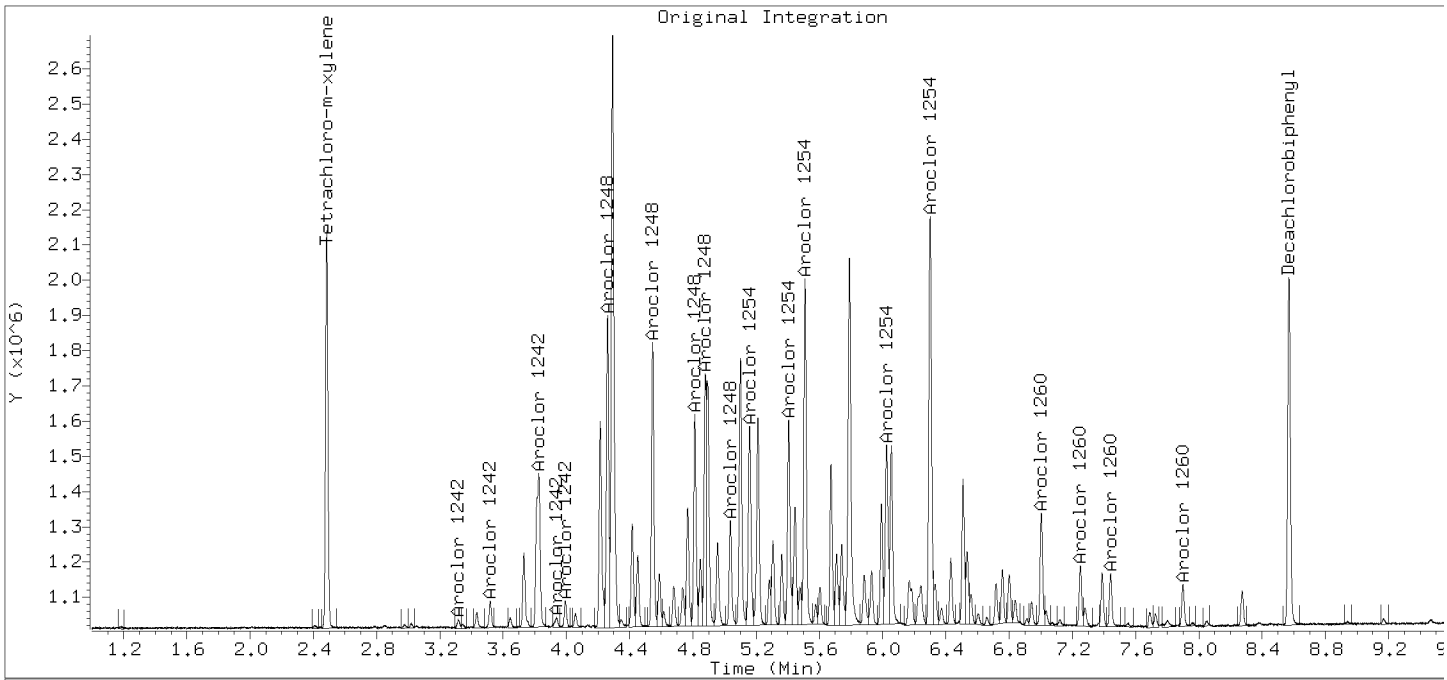
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

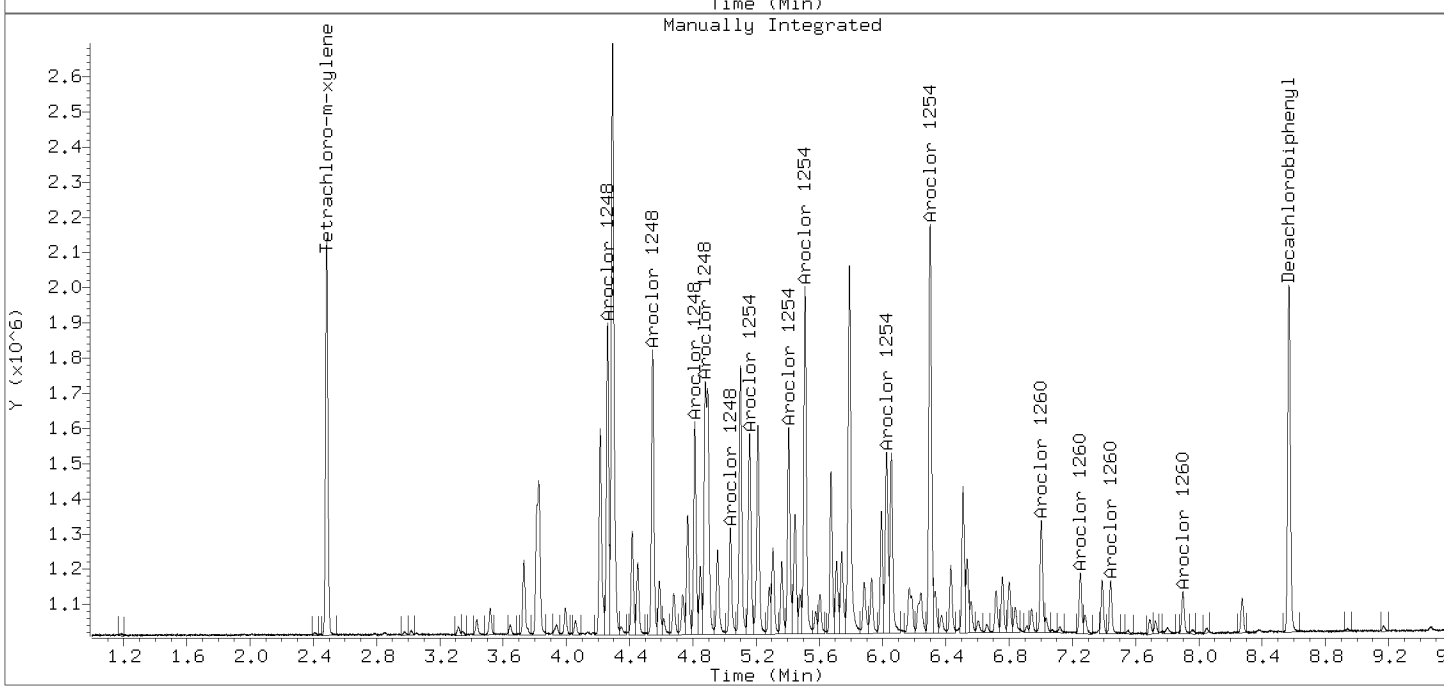
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018011.D
Date : 10-APR-2018 15:10
Client ID: TD1-170615-01-BB-02
Sample Info: 40157703003 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 15:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	28497	0	
Aroclor 1016	28497	0	
Aroclor 1016	28497	0	
Aroclor 1016	28497	0	
Aroclor 1016	28497	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	28497	0	
Aroclor 1242	28497	0	
Aroclor 1242	28497	0	
Aroclor 1242	28497	0	
Aroclor 1242	28497	0	
Aroclor 1248	912241	917048	BA
Aroclor 1248	912241	917048	BA
Aroclor 1248	912241	917048	BA
Aroclor 1248	912241	917048	BA
Aroclor 1248	912241	917048	BA
Aroclor 1254	679714	695609	BA
Aroclor 1254	679714	695609	BA
Aroclor 1254	679714	695609	BA
Aroclor 1254	679714	695609	BA
Aroclor 1254	679714	695609	BA
Aroclor 1260	1429644	0	BA
Aroclor 1260	1429644	0	BA
Aroclor 1260	1429644	0	BA
Aroclor 1260	1429644	0	BA
Aroclor 1260	1429644	0	BA
Tetrachloro-m-xylene	1195482	1195482	
Decachlorobiphenyl	1198456	1198456	

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SAMPLE NO.

SW1-170615-01-BB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703004
Date Analyzed: 04/10/2018 15:26
Lab File ID: 041018.B\041018012.D
Initial wt/vol: 9.976 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)	644	
11097-69-1	PCB-1254 (Aroclor 1254)	301	
11096-82-5	PCB-1260 (Aroclor 1260)	91.2	J
1336-36-3	PCB, Total	1040	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018012.D
Lab Smp Id: 40157703004 Client Smp ID: SW1-170615-01-BB-05
Inj Date : 10-APR-2018 15:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703004 x3,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	32166	24074	0.748	0.07		
2.485	4006374	3801564	0.949	9.87	$ 2 Tetrachloro-m-xylene	
2.788	14296	11658	0.815	0.03		
2.850	23496	18097	0.770	0.05		
2.974	36863	27423	0.744	0.08		
3.017	21832	19347	0.886	0.05		
3.054	23434	17513	0.747	0.05		
3.318	43391	39230	0.904	0.10		
3.433	91561	83684	0.914	0.21		
3.519	146697	142482	0.971	0.34		
3.644	46840	38123	0.814	0.10		
3.731	412983	358716	0.869	0.96		
3.814	564754	723249	1.281	1.32		
3.826	886184	794492	0.897	2.07		
3.937	102622	61858	0.603	0.24		
3.994	186795	169027	0.905	0.43		
4.058	73617	63447	0.862	0.17		
4.132	17956	14458	0.805	0.04		
4.215	1400682	1260368	0.900	3.28		
4.261	1674271	1576578	0.942	3.92	6 Aroclor 1248	BA
4.292	2071400	1708654	0.825	4.86		
4.416	756814	715678	0.946	1.77		
4.451	408211	352676	0.864	0.95		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	1298928	1188933	0.915	3.04	6 Aroclor 1248
4.588	147138	134973	0.917	0.34	
4.616	129286	107789	0.834	0.30	
4.679	123391	108292	0.878	0.28	
4.735	139677	103718	0.743	0.32	
4.767	258061	235504	0.913	0.60	
4.812	790979	758789	0.959	1.85	6 Aroclor 1248
4.846	683822	630348	0.922	1.60	
4.878	2360928	1348565	0.571	5.53	6 Aroclor 1248
4.956	400261	330963	0.827	0.93	
5.036	914559	820428	0.897	2.14	6 Aroclor 1248
5.100	913368	777538	0.851	2.14	
5.160	1023353	891485	0.871	2.40	7 Aroclor 1254
5.212	872805	753126	0.863	2.04	
5.283	129750	115887	0.893	0.30	
5.307	253939	213382	0.840	0.59	
5.362	396860	350665	0.884	0.93	
5.405	815971	739042	0.906	1.91	7 Aroclor 1254
5.448	744863	626169	0.841	1.74	
5.478	133734	127401	0.953	0.31	
5.508	1700131	1436660	0.845	3.98	7 Aroclor 1254
5.575	75884	59044	0.778	0.17	
5.603	227223	188724	0.831	0.53	
5.673	422984	382752	0.905	0.99	
5.709	294628	224708	0.763	0.69	
5.741	293284	225774	0.770	0.68	
5.789	1786946	1320605	0.739	4.19	
5.884	204750	138142	0.675	0.48	
5.930	147807	104240	0.705	0.34	
5.992	304018	273767	0.900	0.71	
6.025	816579	689809	0.845	1.91	7 Aroclor 1254
6.054	751886	633696	0.843	1.76	
6.167	276345	166914	0.604	0.64	
6.227	78571	87679	1.116	0.18	
6.240	152327	116392	0.764	0.35	
6.300	1495608	1206467	0.807	3.50	7 Aroclor 1254
6.331	145437	125135	0.860	0.34	
6.372	96616	66218	0.685	0.22	
6.431	168070	125128	0.744	0.39	
6.509	644599	578981	0.898	1.51	
6.533	352558	242267	0.687	0.82	
6.606	59413	38689	0.651	0.13	
6.658	34592	28233	0.816	0.08	
6.717	152518	129127	0.847	0.35	
6.758	153983	131842	0.856	0.36	
6.801	170651	146746	0.860	0.40	
6.838	147609	114205	0.774	0.34	
6.910	25516	22146	0.868	0.05	
6.941	80120	67310	0.840	0.18	
7.003	353273	316038	0.895	0.82	8 Aroclor 1260
7.036	30404	37295	1.227	0.07	
7.122	37908	24900	0.657	0.08	
7.250	180684	159661	0.884	0.42	8 Aroclor 1260
7.280	76567	55440	0.724	0.17	
7.388	338356	303436	0.897	0.79	
7.442	311542	266692	0.856	0.73	8 Aroclor 1260
7.549	14578	10865	0.745	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.690	39415	35529	0.901	0.09	
7.725	139860	119217	0.852	0.32	
7.800	63129	35626	0.564	0.14	
7.898	165231	143229	0.867	0.38	8 Aroclor 1260
8.049	33626	25579	0.761	0.07	
8.274	312948	268464	0.858	0.73	
8.569	3640795	3113179	0.855	8.54	$ 12 Decachlorobiphenyl
9.054	14402	10827	0.752	0.03	
9.166	30537	23760	0.778	0.07	
	42618824	36406530		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018012.D
Lab Smp Id: 40157703004 Client Smp ID: SW1-170615-01-BB-05
Inj Date : 10-APR-2018 15:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703004 x3,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	9.976	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

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	4006374	0.03249	49			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1674270	0.71459	1100	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1298927	0.31297	470	0.00- 20.00	77.58	BA
4.811	4.812	-0.001	790979	0.38963	580	0.00- 20.00	47.24	BA
4.878	4.879	-0.001	2360927	0.46868	700	0.00- 20.00	141.01	BA
5.036	5.038	-0.002	914558	0.25485	380	0.00- 20.00	54.62	BA
Average of Peak Concentrations =					640			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1023353	0.19547	290	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	815970	0.18971	280	0.00- 20.00	79.73	BA
5.508	5.510	-0.002	1700130	0.21892	330	0.00- 20.00	166.13	BA
6.024	6.027	-0.003	816578	0.16769	250	0.00- 20.00	79.79	BA
6.299	6.299	0.000	1495607	0.22984	340	0.00- 20.00	146.15	BA
Average of Peak Concentrations =					300			
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	353273	0.03528	53	0.00- 20.00	25.62	CO
7.249	7.251	-0.002	180684	0.03780	57	0.00- 20.00	12.08	CO
7.441	7.443	-0.002	311542	0.10687	160	0.00- 20.00	20.83	CO
7.898	7.901	-0.003	165231	0.06262	94	0.00- 20.00	11.05	CO
Average of Peak Concentrations =					91			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	3640794	0.03323	50			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018012.D

Date : 10-APR-2018 15:26

Client ID: SW1-170615-01-BB-05

Instrument: 40GCSJ.i

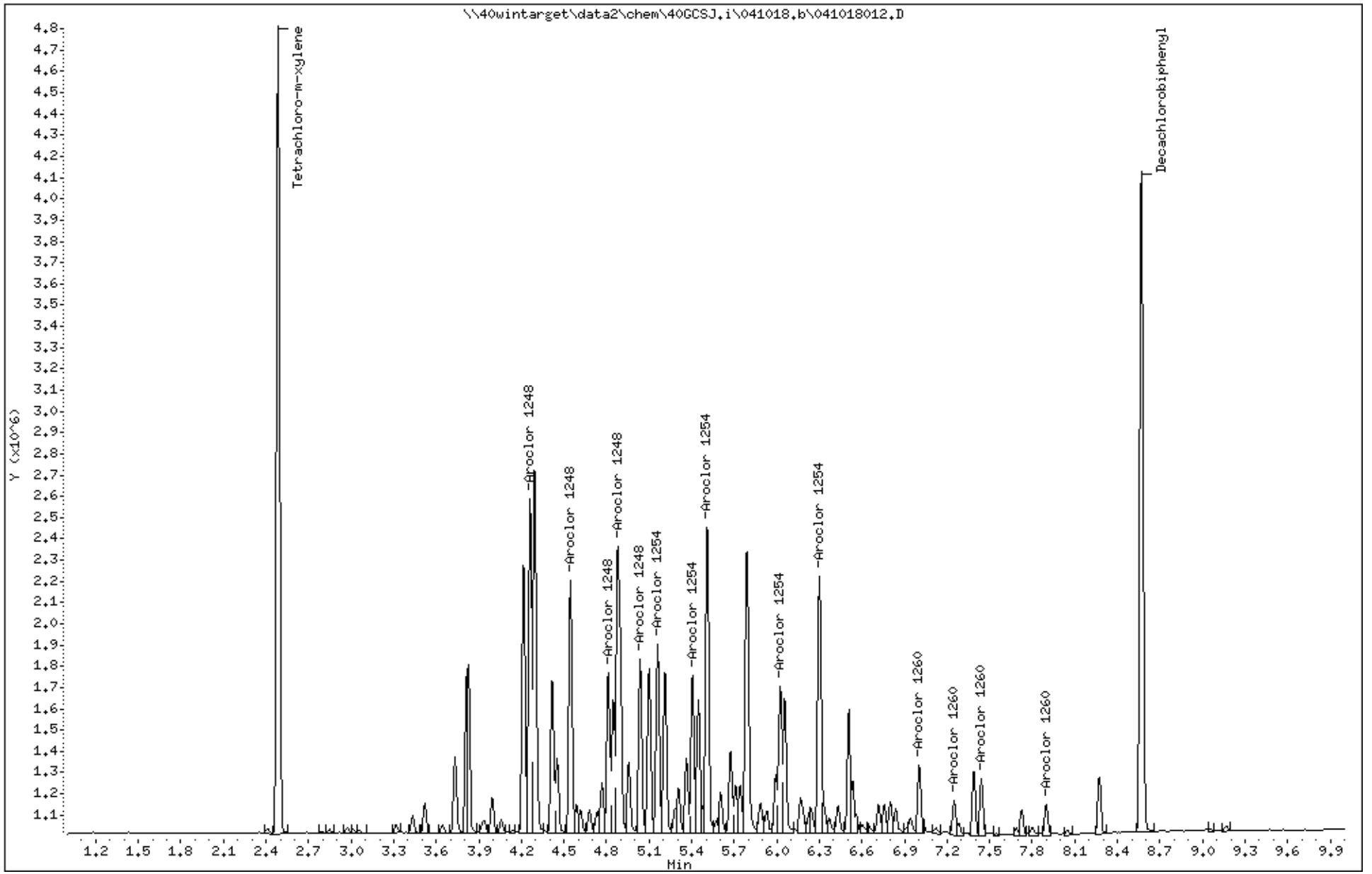
Sample Info: 40157703004 x3,

Volume Injected (uL): 1.0

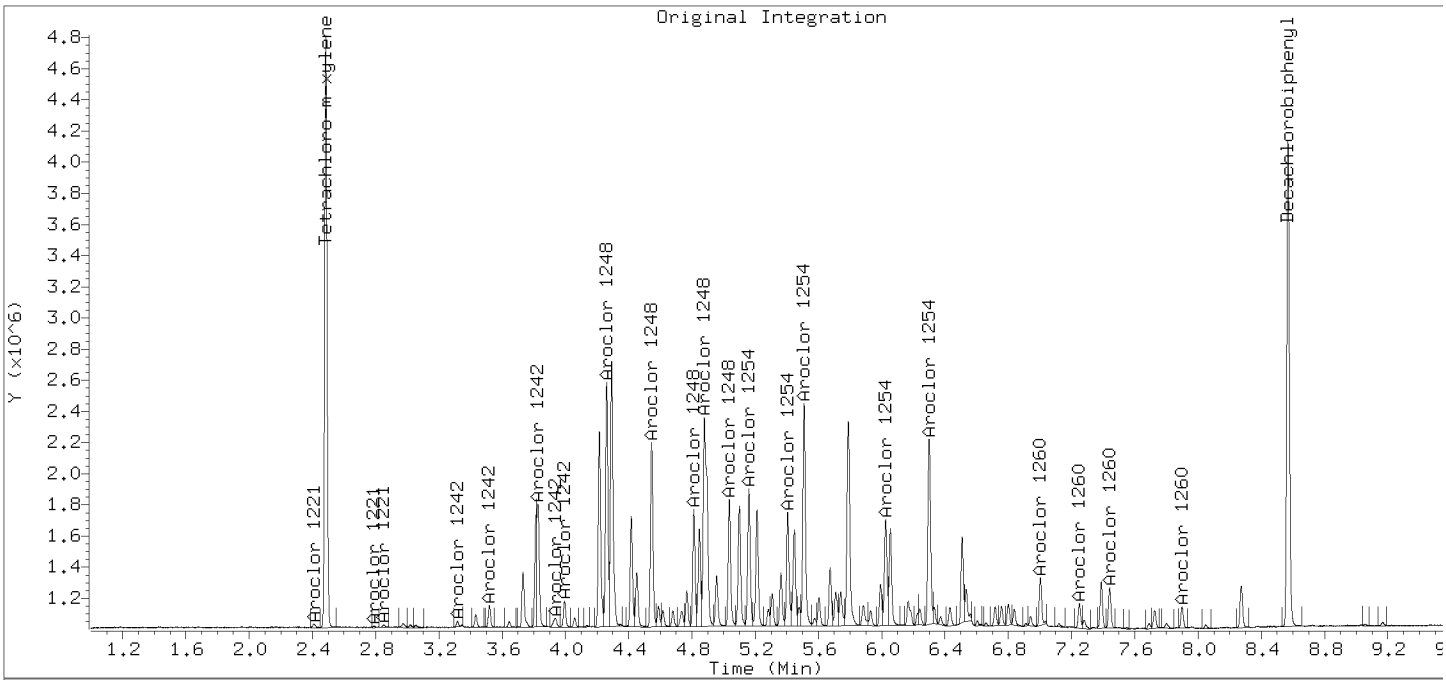
Operator: BLM

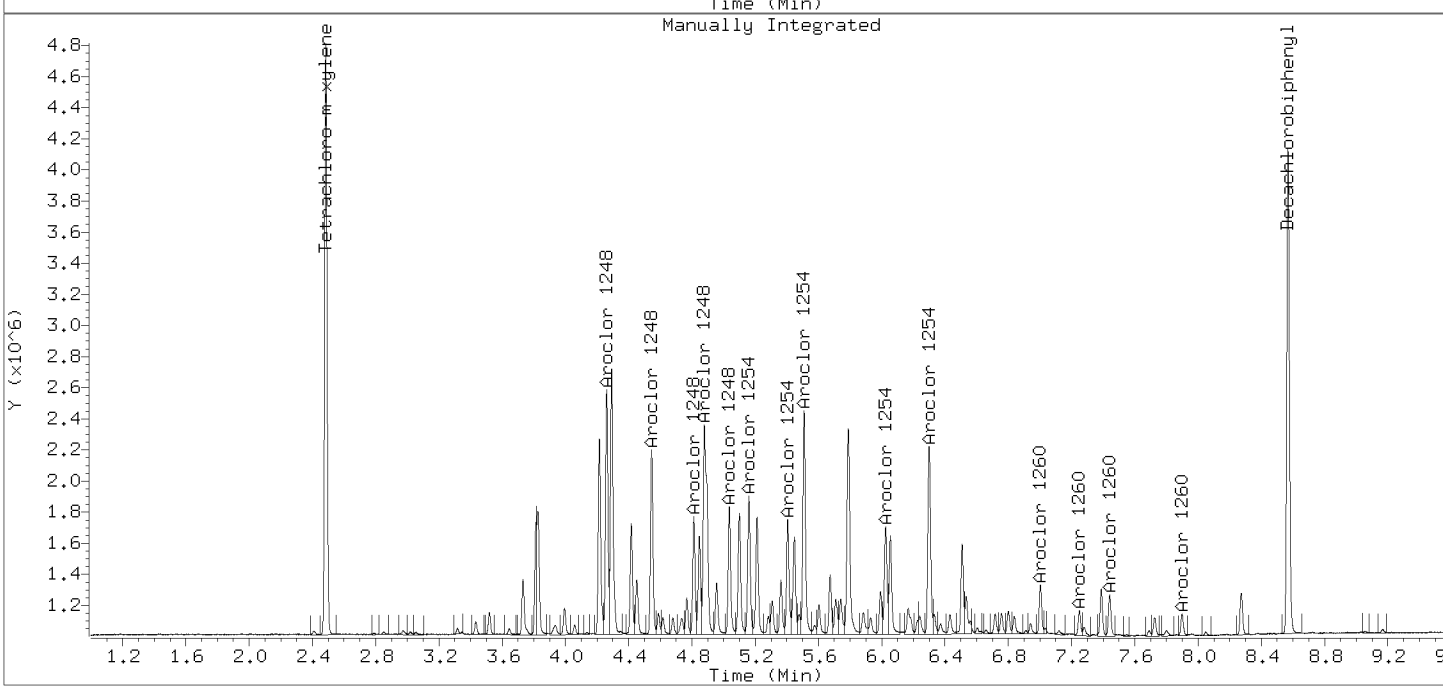
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 15:26 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	43391	0	
Aroclor 1016	43391	0	
Aroclor 1016	43391	0	
Aroclor 1016	43391	0	
Aroclor 1016	43391	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	23496	0	
Aroclor 1232	23496	0	
Aroclor 1232	23496	0	
Aroclor 1232	23496	0	

Aroclor 1232	23496	0	
Aroclor 1242	43391	0	
Aroclor 1242	43391	0	
Aroclor 1242	43391	0	
Aroclor 1242	43391	0	
Aroclor 1242	43391	0	
Aroclor 1248	1657486	1674270	BA
Aroclor 1248	1657486	1674270	BA
Aroclor 1248	1657486	1674270	BA
Aroclor 1248	1657486	1674270	BA
Aroclor 1248	1657486	1674270	BA
Aroclor 1254	1000097	1023353	BA
Aroclor 1254	1000097	1023353	BA
Aroclor 1254	1000097	1023353	BA
Aroclor 1254	1000097	1023353	BA
Aroclor 1254	1000097	1023353	BA
Aroclor 1260	1448846	0	CO
Aroclor 1260	1448846	0	CO
Aroclor 1260	1448846	0	CO
Aroclor 1260	1448846	0	CO
Aroclor 1260	1448846	0	CO
Tetrachloro-m-xylene	4006374	4006374	
Decachlorobiphenyl	3640794	3640794	

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SAMPLE NO.

ND5-170615-01-YB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 40157703005
Date Analyzed: 04/13/2018 21:25
Lab File ID: 041318.B\041318030.D
Initial wt/vol: 9.9805 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)	197	
11097-69-1	PCB-1254 (Aroclor 1254)	122	
11096-82-5	PCB-1260 (Aroclor 1260)	46.9	J
1336-36-3	PCB, Total	366	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318030.D
Lab Smp Id: 40157703005 Client Smp ID: ND5-170615-01-YB-01
Inj Date : 13-APR-2018 21:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703005,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.980	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.039	13726	9654	0.703	0.02		
1.155	9681	7692	0.795	0.01		
1.426	17168	12329	0.718	0.02		
2.171	10978	11429	1.041	0.01		
2.198	30829	23936	0.776	0.04		
2.293	18819	17951	0.954	0.02		
2.316	17536	13769	0.785	0.02		
2.408	80838	62091	0.768	0.12		
2.485	11161638	10420356	0.934	18.19	$ 2 Tetrachloro-m-xylene	
2.790	24863	23453	0.943	0.03		
2.851	63258	53004	0.838	0.09		
2.973	32720	30378	0.928	0.05		
2.989	39694	37720	0.950	0.06		
3.019	59478	58688	0.987	0.09		
3.055	112610	103817	0.922	0.17		
3.318	64061	57403	0.896	0.10		
3.344	64427	57281	0.889	0.10		
3.399	13620	12366	0.908	0.02		
3.434	88970	74871	0.842	0.14		
3.519	369121	344798	0.934	0.58		
3.645	51813	45319	0.875	0.08		
3.732	353922	293431	0.829	0.55		
3.813	479960	685063	1.427	0.75		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.825	889851	762404	0.857	1.40	
3.938	172023	127780	0.743	0.27	
3.993	282815	261552	0.925	0.44	
4.058	120318	100854	0.838	0.18	
4.137	17144	14080	0.821	0.02	
4.214	1662009	1518533	0.914	2.61	
4.261	1503884	1420827	0.945	2.37	6 Aroclor 1248
4.292	2211401	1858602	0.840	3.48	
4.348	44108	28664	0.650	0.06	
4.417	657442	605223	0.921	1.03	
4.452	403828	354176	0.877	0.63	
4.545	1316569	1198352	0.910	2.07	6 Aroclor 1248
4.588	172610	160125	0.928	0.27	
4.618	97928	84615	0.864	0.15	
4.680	132861	107845	0.812	0.20	
4.736	182743	149684	0.819	0.28	
4.767	315881	284324	0.900	0.49	
4.812	855100	816279	0.955	1.34	6 Aroclor 1248
4.847	429704	403793	0.940	0.67	
4.879	2042120	1085729	0.532	3.21	6 Aroclor 1248
4.956	501117	398597	0.795	0.78	
5.037	648866	578547	0.892	1.02	6 Aroclor 1248
5.100	919575	798164	0.868	1.44	
5.160	1335628	1124238	0.842	2.10	7 Aroclor 1254
5.212	1167699	994448	0.852	1.84	
5.283	157464	145990	0.927	0.24	
5.307	301203	244003	0.810	0.47	
5.362	337108	280238	0.831	0.53	
5.406	938478	800479	0.853	1.47	7 Aroclor 1254
5.446	695930	586022	0.842	1.09	
5.477	157825	149620	0.948	0.24	
5.509	1637683	1403719	0.857	2.58	7 Aroclor 1254
5.577	137750	114708	0.833	0.21	
5.603	182554	138260	0.757	0.28	
5.674	566342	495050	0.874	0.89	
5.710	343557	271844	0.791	0.54	
5.741	415073	319924	0.771	0.65	
5.789	2163220	1630351	0.754	3.40	
5.885	276947	180741	0.653	0.43	
5.930	285633	223382	0.782	0.45	
5.993	559312	487989	0.872	0.88	
6.025	923443	817255	0.885	1.45	7 Aroclor 1254
6.054	1549119	1265490	0.817	2.44	
6.168	434202	232341	0.535	0.68	
6.229	118134	142414	1.206	0.18	
6.241	252485	180142	0.713	0.39	
6.300	2225163	1775524	0.798	3.50	7 Aroclor 1254
6.332	210937	180023	0.853	0.33	
6.373	113543	81053	0.714	0.17	
6.432	393456	305779	0.777	0.62	
6.485	32407	32508	1.003	0.05	
6.509	886759	832440	0.939	1.39	
6.534	353062	314680	0.891	0.55	
6.560	196341	163962	0.835	0.30	
6.603	92055	61961	0.673	0.14	
6.658	72067	49236	0.683	0.11	
6.717	290481	240331	0.827	0.45	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.758	310193	265874	0.857	0.48	
6.800	295812	250942	0.848	0.46	
6.839	206630	138880	0.672	0.32	
6.910	45885	39158	0.853	0.07	
6.941	200310	166853	0.833	0.31	
7.004	718485	667300	0.929	1.13	8 Aroclor 1260
7.033	91107	80246	0.881	0.14	
7.072	23816	15133	0.635	0.03	
7.121	62653	43307	0.691	0.09	
7.250	317867	267908	0.843	0.50	8 Aroclor 1260
7.280	146605	110165	0.751	0.23	
7.335	20081	16598	0.827	0.03	
7.389	366466	307255	0.838	0.57	
7.442	338457	271204	0.801	0.53	8 Aroclor 1260
7.548	20171	21108	1.046	0.03	
7.580	18101	15606	0.862	0.02	
7.623	18557	7441	0.401	0.02	
7.689	94550	83972	0.888	0.14	
7.726	131503	113075	0.860	0.20	
7.762	17120	14117	0.825	0.02	
7.803	81958	43526	0.531	0.12	
7.899	316096	253967	0.803	0.49	8 Aroclor 1260
7.964	38445	25587	0.666	0.06	
8.049	88900	76273	0.858	0.14	
8.273	307475	270083	0.878	0.48	
8.376	20685	14538	0.703	0.03	
8.569	10471569	8730736	0.834	16.50	$ 12 Decachlorobiphenyl
8.727	29687	16792	0.566	0.04	
8.946	10894	9140	0.839	0.01	
9.054	17259	13031	0.755	0.02	
9.168	52748	46053	0.873	0.08	
	63442768	54237561		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318030.D
Lab Smp Id: 40157703005 Client Smp ID: ND5-170615-01-YB-01
Inj Date : 13-APR-2018 21:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703005,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.980	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	11161637	0.09053	45			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1503883	0.64187	320	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1316569	0.31722	160	0.00- 20.00	87.54	BA
4.812	4.812	0.000	855100	0.42121	210	0.00- 20.00	56.86	BA
4.878	4.879	-0.001	2042120	0.40539	200	0.00- 20.00	135.79	BA
5.036	5.038	-0.002	648865	0.18082	90	0.00- 20.00	43.15	BA
Average of Peak Concentrations =					200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1335627	0.25512	130	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	938478	0.21820	110	0.00- 20.00	70.26	BA
5.509	5.510	-0.001	1637683	0.21088	100	0.00- 20.00	122.62	BA
6.024	6.027	-0.003	923442	0.18963	95	0.00- 20.00	69.14	BA
6.299	6.299	0.000	2225162	0.34196	170	0.00- 20.00	166.60	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	718485	0.07175	36	0.00- 20.00	32.29	BA
7.250	7.251	-0.001	317866	0.06650	33	0.00- 20.00	14.29	BA
7.442	7.443	-0.001	338457	0.11610	58	0.00- 20.00	15.21	BA
7.899	7.901	-0.002	316096	0.11979	60	0.00- 20.00	14.21	BA
Average of Peak Concentrations =					47			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10471569	0.09558	48			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318030.D

Date : 13-APR-2018 21:25

Client ID: ND5-170615-01-YB-01

Instrument: 40GCSJ.i

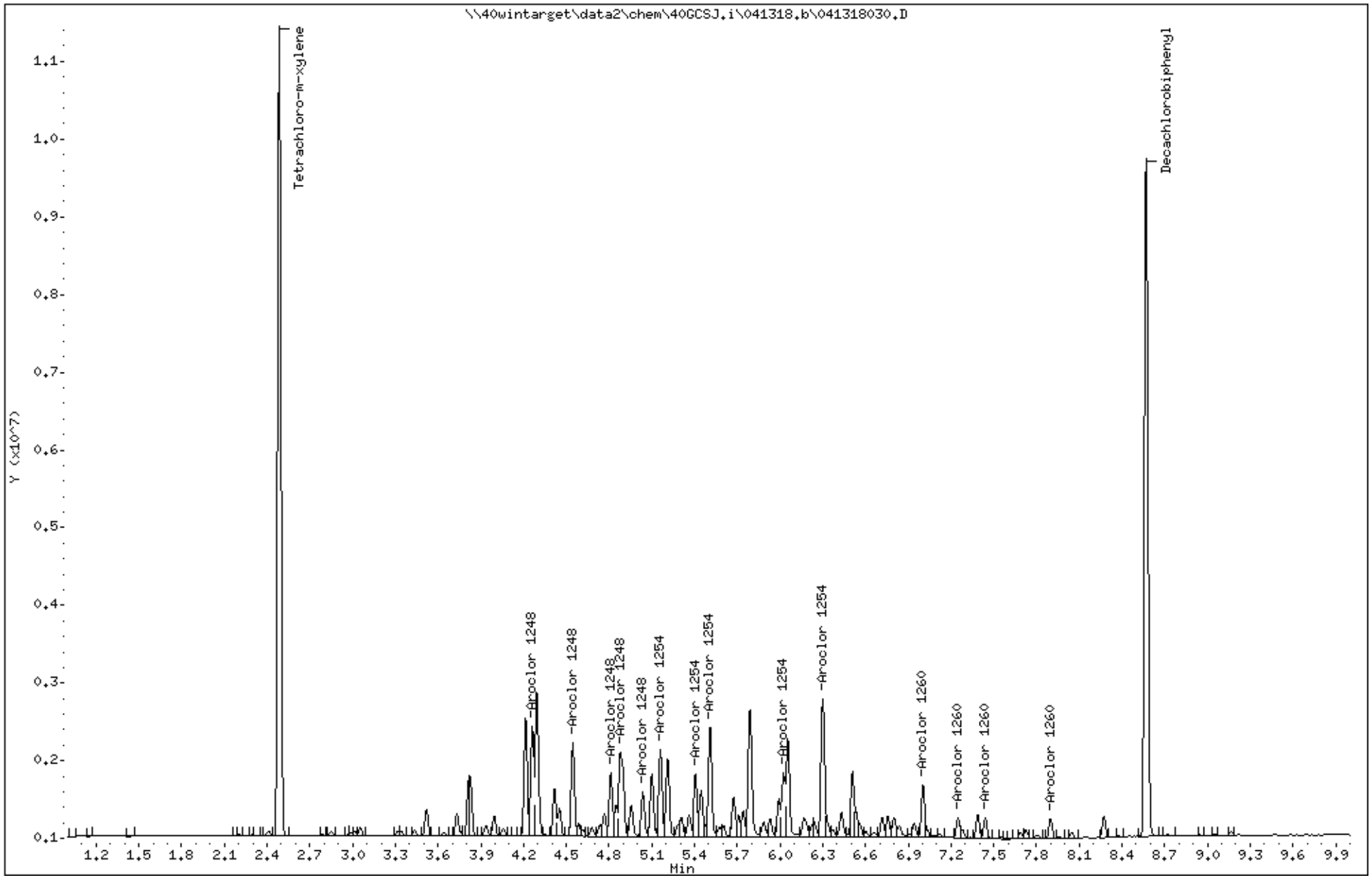
Sample Info: 40157703005,

Volume Injected (uL): 1.0

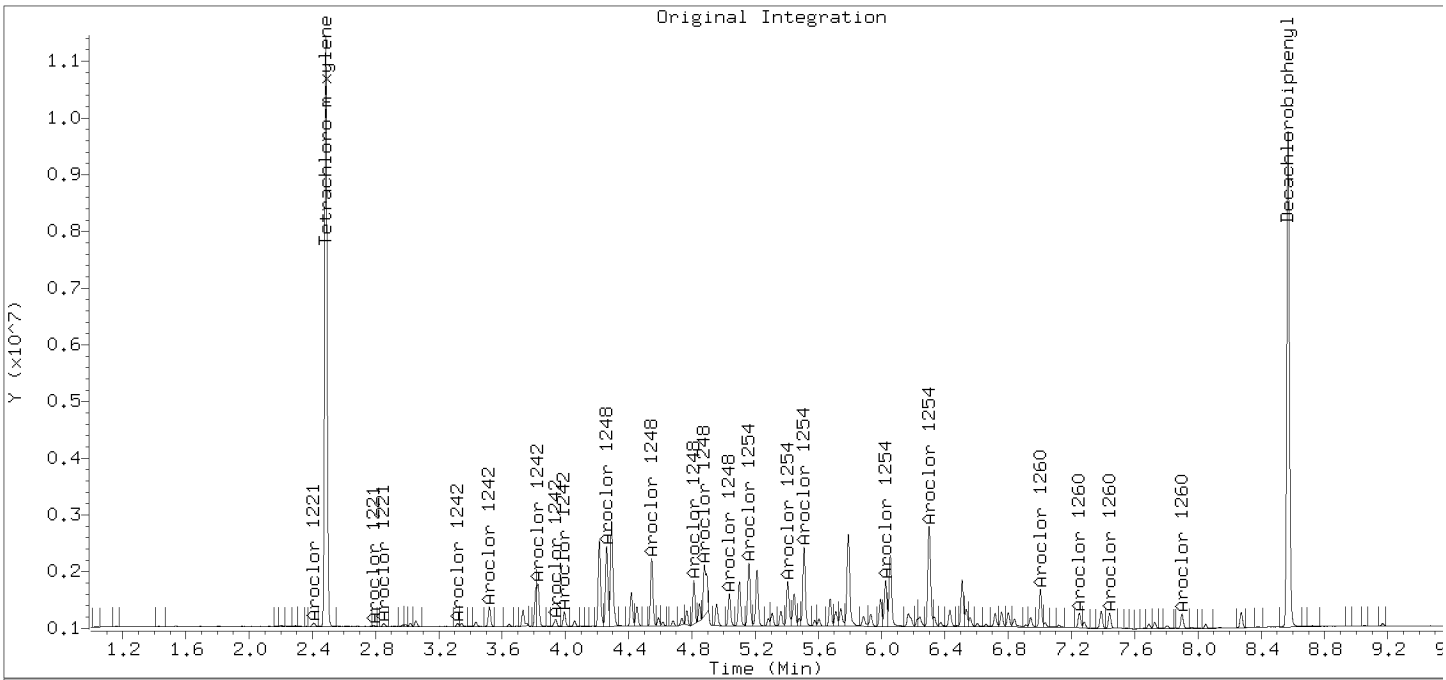
Operator: BLM

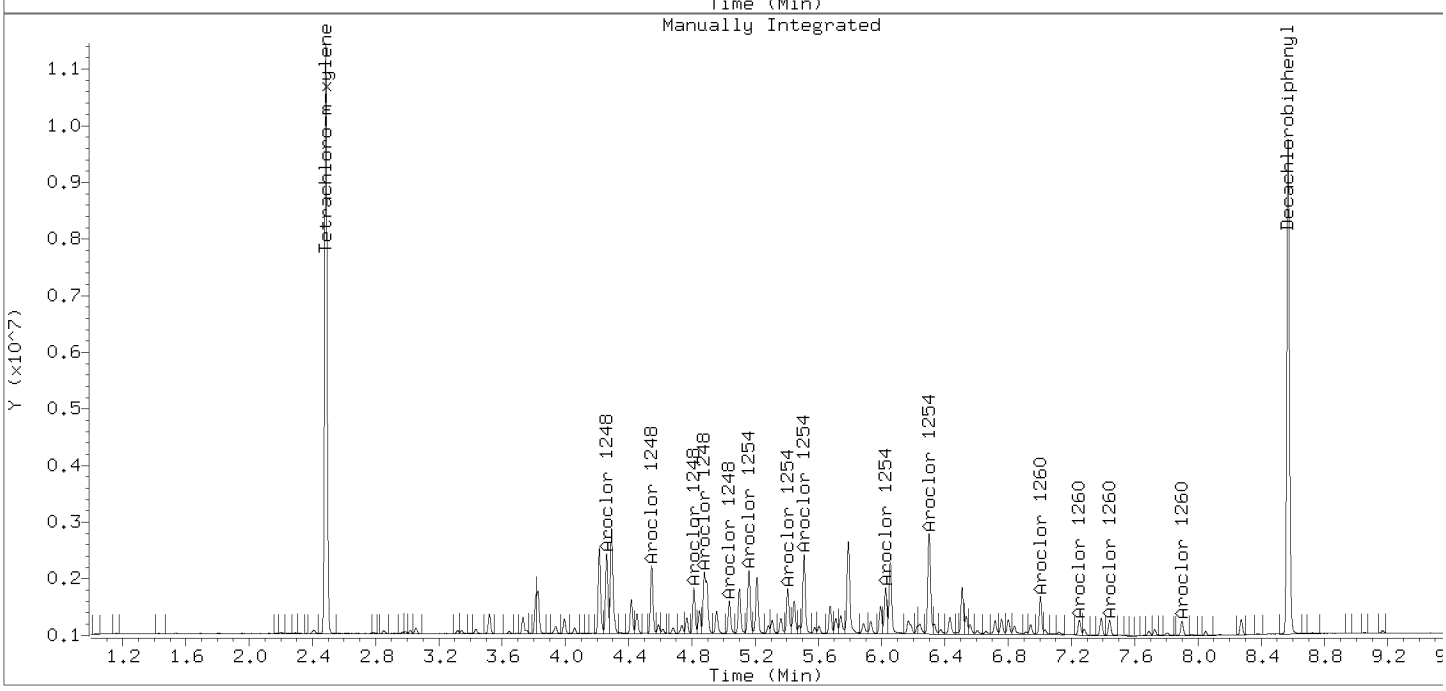
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 21:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	64060	0	
Aroclor 1016	64060	0	
Aroclor 1016	64060	0	
Aroclor 1016	64060	0	
Aroclor 1016	64060	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	63258	0	
Aroclor 1232	63258	0	
Aroclor 1232	63258	0	
Aroclor 1232	63258	0	

Aroclor 1232	63258	0	
Aroclor 1242	64060	0	
Aroclor 1242	64060	0	
Aroclor 1242	64060	0	
Aroclor 1242	64060	0	
Aroclor 1242	64060	0	
Aroclor 1248	1490536	1503883	BA
Aroclor 1248	1490536	1503883	BA
Aroclor 1248	1490536	1503883	BA
Aroclor 1248	1490536	1503883	BA
Aroclor 1248	1490536	1503883	BA
Aroclor 1254	1284073	1335627	BA
Aroclor 1254	1284073	1335627	BA
Aroclor 1254	1284073	1335627	BA
Aroclor 1254	1284073	1335627	BA
Aroclor 1254	1284073	1335627	BA
Aroclor 1260	2201893	0	BA
Aroclor 1260	2201893	0	BA
Aroclor 1260	2201893	0	BA
Aroclor 1260	2201893	0	BA
Aroclor 1260	2201893	0	BA
Tetrachloro-m-xylene	11161637	11161637	
Decachlorobiphenyl	10471569	10471569	

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SAMPLE NO.

ND5-170615-01-BB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703006
Date Analyzed: 04/10/2018 15:41
Lab File ID: 041018.B\041018013.D
Initial wt/vol: 9.9809 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)	45.5	J
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	81.0	
11097-69-1	PCB-1254 (Aroclor 1254)	34.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	161	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018013.D
Lab Smp Id: 40157703006 Client Smp ID: ND5-170615-01-BB-09
Inj Date : 10-APR-2018 15:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703006,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	9.981	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.161	12991	10584	0.815	0.03		
1.423	11043	8407	0.761	0.03		
1.806	16886	13644	0.808	0.04	1 Aroclor 1221	BA
1.953	17122	11565	0.675	0.04		
2.197	42527	21544	0.507	0.11		
2.411	198860	158923	0.799	0.55	1 Aroclor 1221	BA
2.485	10911184	10328050	0.947	30.67	$ 2 Tetrachloro-m-xylene	BA
2.681	16349	15544	0.951	0.04	1 Aroclor 1221	BA
2.789	42482	29993	0.706	0.11	1 Aroclor 1221	BA
2.851	79081	65119	0.823	0.21	1 Aroclor 1221	BA
2.975	63652	38224	0.601	0.17		
3.019	63306	61103	0.965	0.17		
3.054	149747	134048	0.895	0.41		
3.318	123984	114817	0.926	0.34		
3.344	87749	77447	0.883	0.24		
3.433	363237	329999	0.908	1.00		
3.519	249337	220890	0.886	0.68		
3.647	53174	42796	0.805	0.14		
3.733	254796	198178	0.778	0.70		
3.813	744777	422620	0.567	2.06		
3.939	209537	164109	0.783	0.57		
3.994	153094	136062	0.889	0.42		
4.058	96127	82278	0.856	0.26		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	29365	21186	0.721	0.08	
4.214	792976	710687	0.896	2.19	
4.260	670739	643222	0.959	1.85	6 Aroclor 1248
4.292	908944	769562	0.847	2.51	
4.351	31697	18855	0.595	0.08	
4.417	297529	269166	0.905	0.82	
4.453	230650	200079	0.867	0.63	
4.545	553323	495646	0.896	1.53	6 Aroclor 1248
4.589	75096	70041	0.933	0.20	
4.615	78479	57090	0.727	0.21	
4.680	57277	47081	0.822	0.15	
4.736	71532	51256	0.717	0.19	
4.767	136736	125085	0.915	0.37	
4.814	314364	280052	0.891	0.86	6 Aroclor 1248
4.848	236162	213948	0.906	0.65	
4.893	786221	393908	0.501	2.17	6 Aroclor 1248
4.957	166391	134742	0.810	0.46	
5.037	280903	235826	0.840	0.77	6 Aroclor 1248
5.100	364847	301787	0.827	1.00	
5.160	356201	295910	0.831	0.98	7 Aroclor 1254
5.212	340665	279034	0.819	0.94	
5.283	48526	48220	0.994	0.13	
5.308	131256	105254	0.802	0.36	
5.362	139829	110711	0.792	0.38	
5.406	284861	246513	0.865	0.78	7 Aroclor 1254
5.449	347106	288907	0.832	0.96	
5.477	63679	58035	0.911	0.17	
5.509	513546	430391	0.838	1.42	7 Aroclor 1254
5.573	33065	25823	0.781	0.09	
5.604	87794	67908	0.773	0.24	
5.674	200393	182279	0.910	0.55	
5.709	99333	78280	0.788	0.27	
5.741	118712	85517	0.720	0.32	
5.789	603988	424963	0.704	1.67	
5.886	84370	56655	0.672	0.23	
5.930	67391	47497	0.705	0.18	
5.993	129939	114897	0.884	0.35	
6.024	273878	225335	0.823	0.75	7 Aroclor 1254
6.055	321677	262172	0.815	0.88	
6.171	112059	57687	0.515	0.30	
6.225	32750	41927	1.280	0.09	
6.243	71374	48504	0.680	0.19	
6.300	583413	476134	0.816	1.61	7 Aroclor 1254
6.331	46775	54155	1.158	0.12	
6.374	42237	24870	0.589	0.11	
6.432	81361	55763	0.685	0.22	
6.510	182654	157648	0.863	0.50	
6.534	154092	108090	0.701	0.42	
6.604	13753	13946	1.014	0.03	
6.717	65524	47973	0.732	0.18	
6.757	70459	57077	0.810	0.19	
6.800	76865	62205	0.809	0.21	
6.837	40081	30772	0.768	0.11	
6.940	60736	42527	0.700	0.16	
7.004	158683	133502	0.841	0.43	8 Aroclor 1260
7.034	17145	19115	1.115	0.04	
7.126	41364	19030	0.460	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.249	98146	78436	0.799	0.27	8 Aroclor 1260
7.282	55661	33530	0.602	0.15	
7.340	21836	16333	0.748	0.06	
7.388	52641	48695	0.925	0.14	
7.441	73170	54040	0.739	0.20	8 Aroclor 1260
7.583	10352	9976	0.964	0.02	
7.658	16091	13243	0.823	0.04	
7.694	24927	21299	0.854	0.06	
7.726	65469	47104	0.719	0.18	
7.799	57992	27081	0.467	0.16	
7.900	64139	44366	0.692	0.17	8 Aroclor 1260
8.000	12453	9002	0.723	0.03	
8.051	29185	21394	0.733	0.08	
8.273	114500	96449	0.842	0.31	
8.377	15715	10964	0.698	0.04	
8.569	9297024	7994991	0.860	25.71	$ 12 Decachlorobiphenyl
	36151106	31137292		100.000	

Total unknown % area = 29

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018013.D
Lab Smp Id: 40157703006 Client Smp ID: ND5-170615-01-BB-09
Inj Date : 10-APR-2018 15:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703006,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	9.981	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.805	1.804	0.001	16885	0.01622	8.1	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	198860	0.36299	180	0.00- 20.00	1177.73	BA
2.685	2.688	-0.003	16349	0.01182	5.9	0.00- 20.00	96.83	BA
2.788	2.789	-0.001	42482	0.03842	19	0.00- 20.00	251.60	BA
2.851	2.851	0.000	79081	0.02429	12	0.00- 20.00	468.35	BA
Average of Peak Concentrations =					45			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10911184	0.08850	44		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	670738	0.28628	140	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	553322	0.13332	67	0.00- 20.00	82.49	BA
4.813	4.812	0.001	314363	0.15485	78	0.00- 20.00	46.87	BA
4.892	4.879	0.013	786220	0.15608	78	0.00- 20.00	117.22	BA
5.036	5.038	-0.002	280903	0.07828	39	0.00- 20.00	41.88	BA
Average of Peak Concentrations =					81			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	356200	0.06804	34	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	284861	0.06623	33	0.00- 20.00	79.97	CO
5.509	5.510	-0.001	513546	0.06613	33	0.00- 20.00	144.17	CO
6.023	6.027	-0.004	273877	0.05624	28	0.00- 20.00	76.89	CO
6.299	6.299	0.000	583412	0.08966	45	0.00- 20.00	163.79	CO
Average of Peak Concentrations =					35			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9297024	0.08486	42			

QC Flag Legend

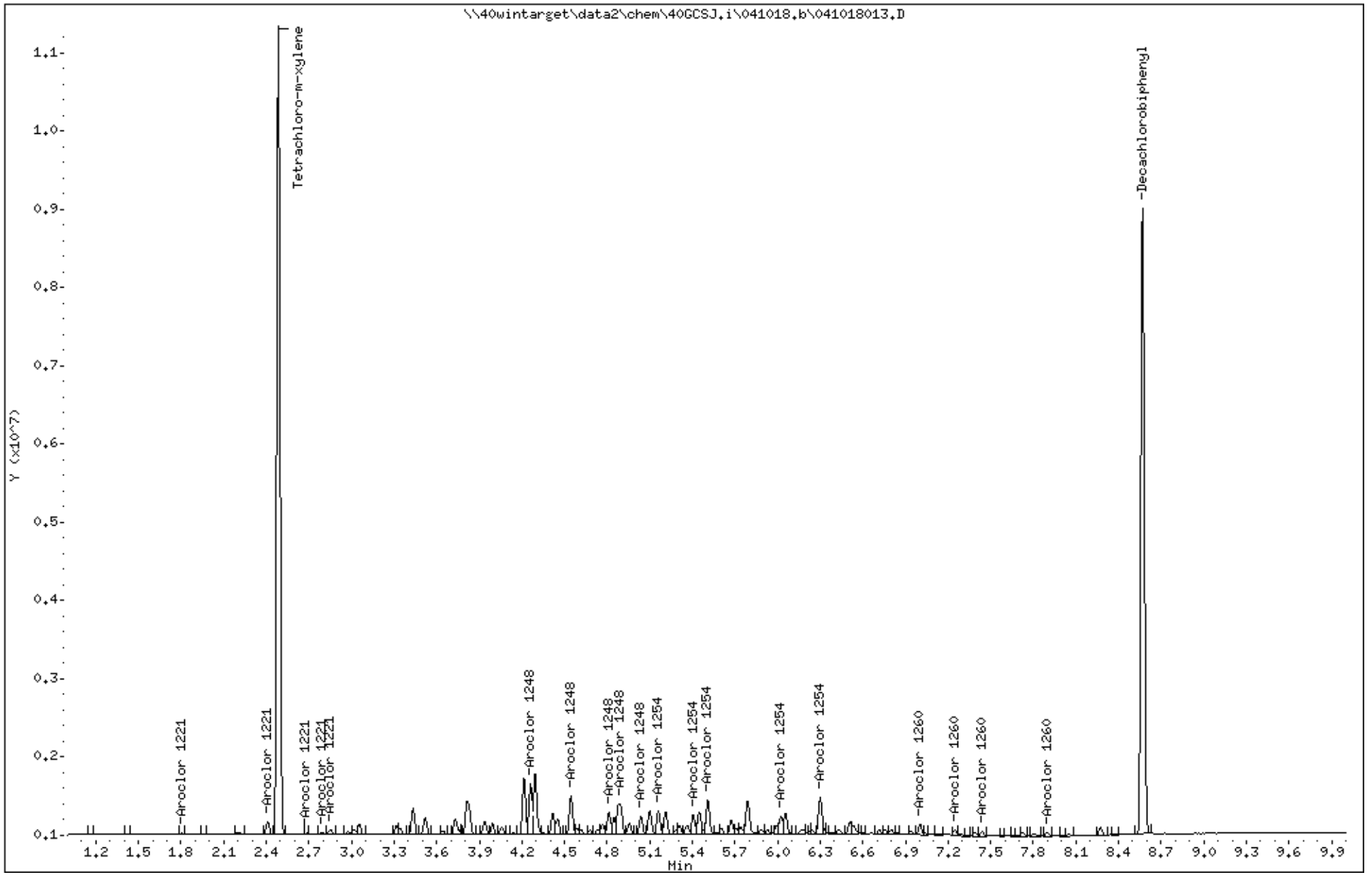
M - Compound response manually integrated.

Review Codes Legend

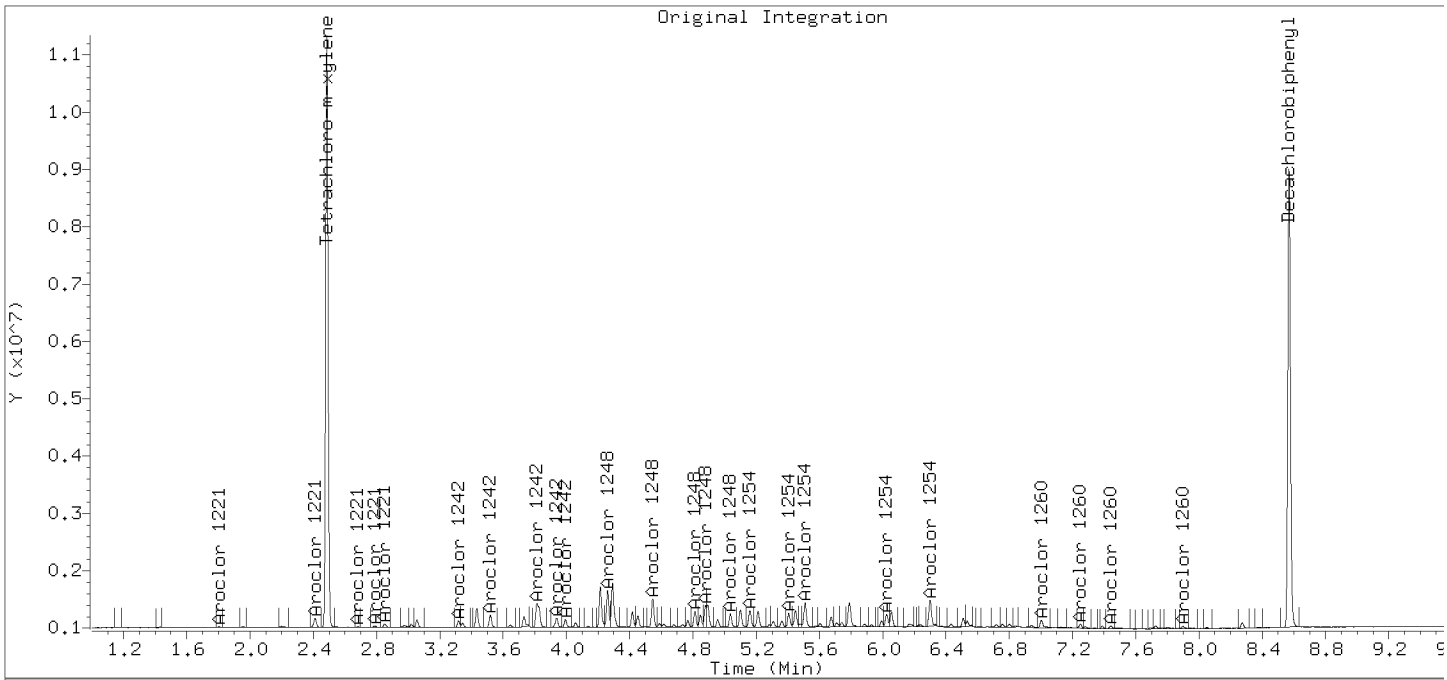
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

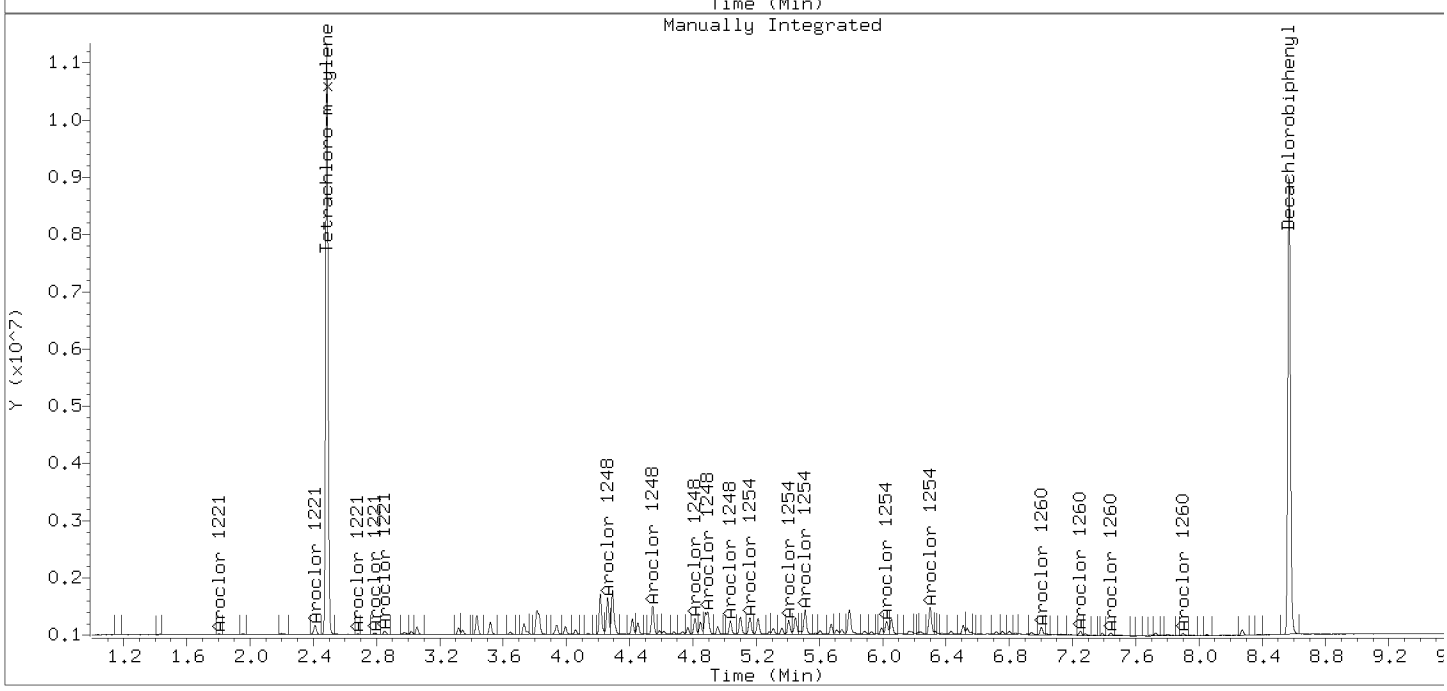
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018013.D
Date : 10-APR-2018 15:41
Client ID: ND5-170615-01-BB-09
Sample Info: 40157703006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 15:41 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	121775	0	
Aroclor 1016	121775	0	
Aroclor 1016	121775	0	
Aroclor 1016	121775	0	
Aroclor 1016	121775	0	
Aroclor 1221	14331	16885	BA
Aroclor 1221	14331	16885	BA
Aroclor 1221	14331	16885	BA
Aroclor 1221	14331	16885	BA
Aroclor 1221	14331	16885	BA
Aroclor 1232	73698	0	
Aroclor 1232	73698	0	
Aroclor 1232	73698	0	
Aroclor 1232	73698	0	

Aroclor 1232	73698	0	
Aroclor 1242	121775	0	
Aroclor 1242	121775	0	
Aroclor 1242	121775	0	
Aroclor 1242	121775	0	
Aroclor 1242	121775	0	
Aroclor 1248	660762	670738	BA
Aroclor 1248	660762	670738	BA
Aroclor 1248	660762	670738	BA
Aroclor 1248	660762	670738	BA
Aroclor 1248	660762	670738	BA
Aroclor 1254	340220	356200	CO
Aroclor 1254	340220	356200	CO
Aroclor 1254	340220	356200	CO
Aroclor 1254	340220	356200	CO
Aroclor 1254	340220	356200	CO
Aroclor 1260	549917	0	CO
Aroclor 1260	549917	0	CO
Aroclor 1260	549917	0	CO
Aroclor 1260	549917	0	CO
Aroclor 1260	549917	0	CO
Tetrachloro-m-xylene	10890157	10911184	BA
Decachlorobiphenyl	9297024	9297024	

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SAMPLE NO.

ND5-170615-01-BB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703007
Date Analyzed: 04/10/2018 15:57
Lab File ID: 041018.B\041018014.D
Initial wt/vol: 9.9813 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)	38.0	J
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	296	
11097-69-1	PCB-1254 (Aroclor 1254)	173	
11096-82-5	PCB-1260 (Aroclor 1260)	45.0	J
1336-36-3	PCB, Total	552	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018014.D
Lab Smp Id: 40157703007 Client Smp ID: ND5-170615-01-BB-08
Inj Date : 10-APR-2018 15:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703007,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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	9.981	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.071	9651	10012	1.037	0.01		
1.425	12924	8126	0.629	0.01		
1.536	15422	10178	0.660	0.01		
1.804	12514	11189	0.894	0.01	1 Aroclor 1221	BA
2.194	27562	19844	0.720	0.03		
2.411	163860	131702	0.804	0.21	1 Aroclor 1221	BA
2.485	11338656	10843459	0.956	15.11	$ 2 Tetrachloro-m-xylene	BA
2.686	11758	11719	0.997	0.01	1 Aroclor 1221	BA
2.788	40730	30478	0.748	0.05	1 Aroclor 1221	BA
2.849	74925	59835	0.799	0.09	1 Aroclor 1221	BA
2.974	69039	41432	0.600	0.08		
3.020	57349	53311	0.930	0.07		
3.054	117161	103986	0.888	0.15		
3.318	141850	133647	0.942	0.18		
3.345	85876	74239	0.864	0.11		
3.433	365288	337759	0.925	0.47		
3.518	324580	289718	0.893	0.41		
3.645	80730	74407	0.922	0.10		
3.731	466598	401659	0.861	0.60		
3.814	645547	898889	1.392	0.83		
3.826	1225554	1064601	0.869	1.57		
3.937	197048	142381	0.723	0.25		
3.994	290998	267127	0.918	0.37		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	141446	122572	0.867	0.18	
4.135	35506	26002	0.732	0.04	
4.215	1652831	1435260	0.868	2.12	
4.260	1991892	1847513	0.928	2.56	6 Aroclor 1248
4.292	3350224	2810467	0.839	4.31	
4.348	52485	37518	0.715	0.06	
4.417	816589	774185	0.948	1.05	
4.452	577352	516407	0.894	0.74	
4.545	1855967	1670643	0.900	2.38	6 Aroclor 1248
4.589	269464	249581	0.926	0.34	
4.617	175494	146162	0.833	0.22	
4.680	197171	167526	0.850	0.25	
4.737	233142	194064	0.832	0.30	
4.767	560371	542105	0.967	0.72	
4.813	1387327	1291126	0.931	1.78	6 Aroclor 1248
4.847	629006	581539	0.925	0.80	
4.879	3120637	1702925	0.546	4.01	6 Aroclor 1248
4.956	582959	484180	0.831	0.75	
5.037	1279161	1133055	0.886	1.64	6 Aroclor 1248
5.100	1568015	1336818	0.853	2.01	
5.159	1560195	1287073	0.825	2.00	7 Aroclor 1254
5.212	1586466	1314856	0.829	2.04	
5.284	248864	235526	0.946	0.32	
5.308	487671	404134	0.829	0.62	
5.362	613618	531822	0.867	0.78	
5.406	1360841	1181705	0.868	1.75	7 Aroclor 1254
5.448	1089931	897408	0.823	1.40	
5.477	249253	229800	0.922	0.32	
5.509	2463226	2049777	0.832	3.17	7 Aroclor 1254
5.577	145891	133132	0.913	0.18	
5.604	358140	285231	0.796	0.46	
5.675	884169	804909	0.910	1.13	
5.710	493926	407195	0.824	0.63	
5.741	627019	487237	0.777	0.80	
5.789	3136113	2389189	0.762	4.03	
5.885	391667	289252	0.739	0.50	
5.932	375067	272834	0.727	0.48	
5.993	754487	690483	0.915	0.97	
6.024	1514889	1295068	0.855	1.94	7 Aroclor 1254
6.055	1590538	1235173	0.777	2.04	
6.168	525546	288604	0.549	0.67	
6.227	164004	201609	1.229	0.21	
6.241	356262	260540	0.731	0.45	
6.300	3129794	2477547	0.792	4.02	7 Aroclor 1254
6.331	309948	275284	0.888	0.39	
6.373	164932	124556	0.755	0.21	
6.430	431381	339831	0.788	0.55	
6.510	1052890	962465	0.914	1.35	
6.534	597882	534657	0.894	0.76	
6.560	227542	194114	0.853	0.29	
6.605	106162	76095	0.717	0.13	
6.660	69460	53608	0.772	0.08	
6.718	321425	257141	0.800	0.41	
6.757	383372	331657	0.865	0.49	
6.801	397886	341411	0.858	0.51	
6.839	218684	148501	0.679	0.28	
6.911	49143	43188	0.879	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.941	208170	178653	0.858	0.26	
7.004	767621	682896	0.890	0.98	8 Aroclor 1260
7.035	92329	81175	0.879	0.11	
7.074	23143	15837	0.684	0.02	
7.122	60209	37836	0.628	0.07	
7.251	409340	361860	0.884	0.52	8 Aroclor 1260
7.280	152792	124820	0.817	0.19	
7.334	19319	14105	0.730	0.02	
7.388	342993	290190	0.846	0.44	
7.441	309477	281796	0.911	0.39	8 Aroclor 1260
7.472	20518	13484	0.657	0.02	
7.552	19534	19671	1.007	0.02	
7.623	13821	10994	0.795	0.01	
7.649	14595	9359	0.641	0.01	
7.689	101384	91207	0.900	0.13	
7.727	115467	93504	0.810	0.14	
7.802	76720	41957	0.547	0.09	
7.899	238910	200695	0.840	0.30	8 Aroclor 1260
7.962	39990	21221	0.531	0.05	
8.049	71840	58224	0.810	0.09	
8.273	233100	207778	0.891	0.30	
8.376	10868	10201	0.939	0.01	
8.570	9613723	8383792	0.872	12.37	$ 12 Decachlorobiphenyl
9.167	46111	35794	0.776	0.05	
	77692909	66689007		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018014.D
Lab Smp Id: 40157703007 Client Smp ID: ND5-170615-01-BB-08
Inj Date : 10-APR-2018 15:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703007,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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	9.981	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	12513	0.01202	6.0	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	163860	0.29910	150	0.00- 20.00	1309.52	BA
2.686	2.688	-0.002	11758	0.00850	4.2	0.00- 20.00	93.97	BA
2.786	2.789	-0.003	40729	0.03683	18	0.00- 20.00	325.49	BA
2.849	2.851	-0.002	74925	0.02302	12	0.00- 20.00	598.78	BA
Average of Peak Concentrations =					38			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11338655	0.09196	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1991891	0.85016	420	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1855966	0.44719	220	0.00- 20.00	93.18	BA
4.812	4.812	0.000	1387327	0.68339	340	0.00- 20.00	69.65	BA
4.878	4.879	-0.001	3120636	0.61949	310	0.00- 20.00	156.67	BA
5.036	5.038	-0.002	1279160	0.35646	180	0.00- 20.00	64.22	BA
Average of Peak Concentrations =					300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1560194	0.29802	150	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1360840	0.31640	160	0.00- 20.00	87.22	BA
5.508	5.510	-0.002	2463225	0.31718	160	0.00- 20.00	157.88	BA
6.023	6.027	-0.004	1514888	0.31109	160	0.00- 20.00	97.10	BA
6.299	6.299	0.000	3129793	0.48098	240	0.00- 20.00	200.60	BA
Average of Peak Concentrations =					170			
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	767620	0.07665	38	0.00- 20.00	24.53	CO
7.250	7.251	-0.001	409339	0.08564	43	0.00- 20.00	13.08	CO
7.441	7.443	-0.002	309476	0.10616	53	0.00- 20.00	10.54	CO
7.899	7.901	-0.002	238909	0.09054	45	0.00- 20.00	7.63	CO
Average of Peak Concentrations =					45			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9613722	0.08775	44			

QC Flag Legend

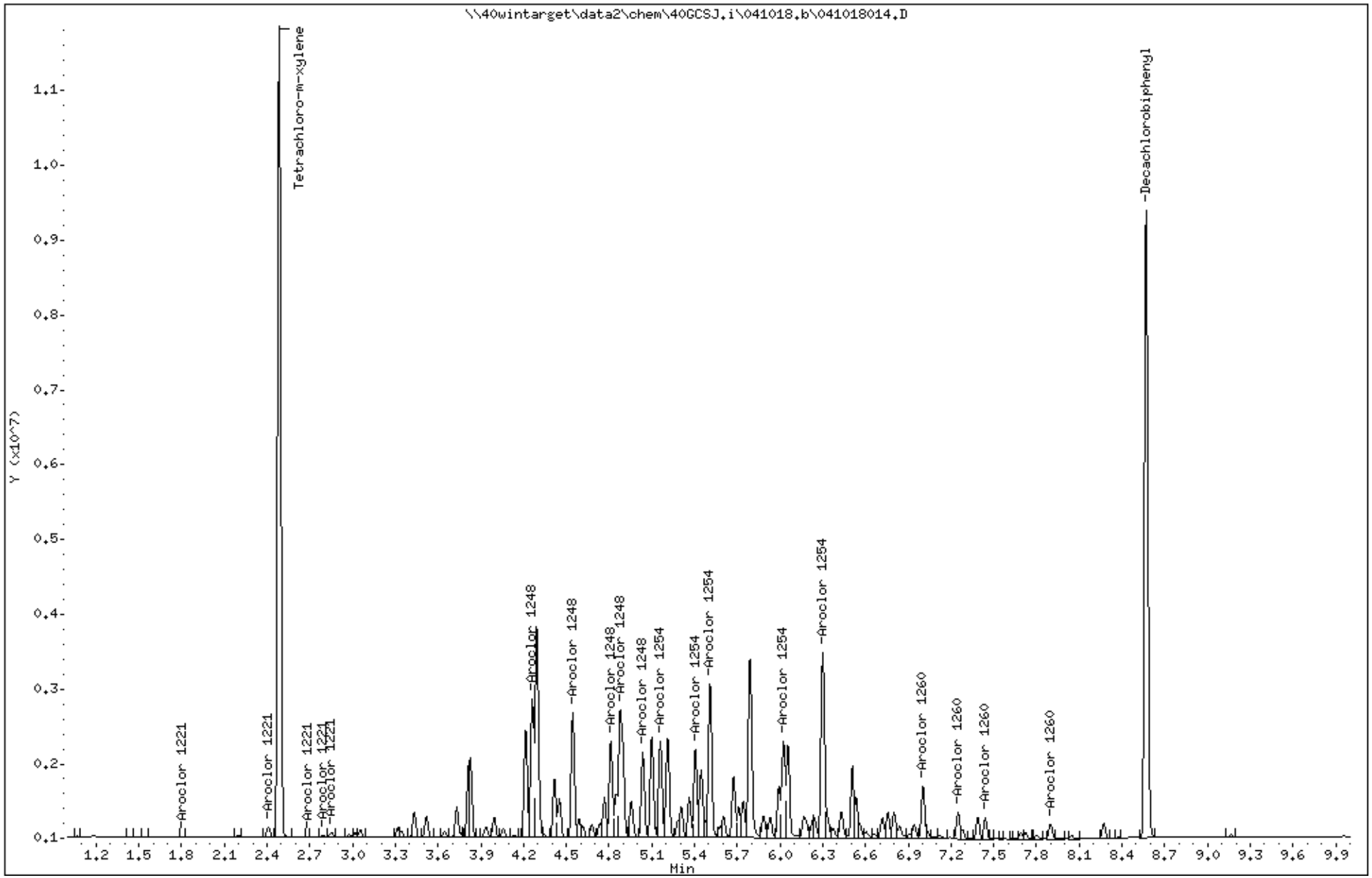
M - Compound response manually integrated.

Review Codes Legend

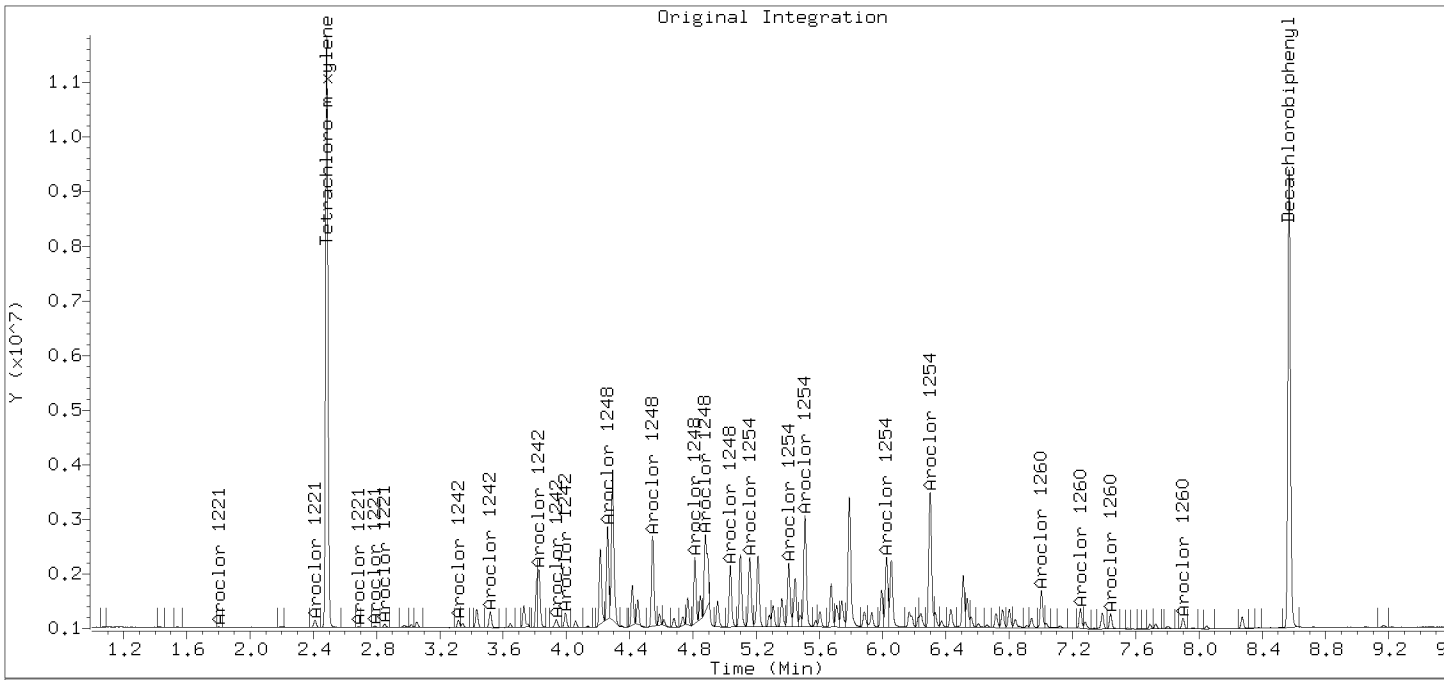
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

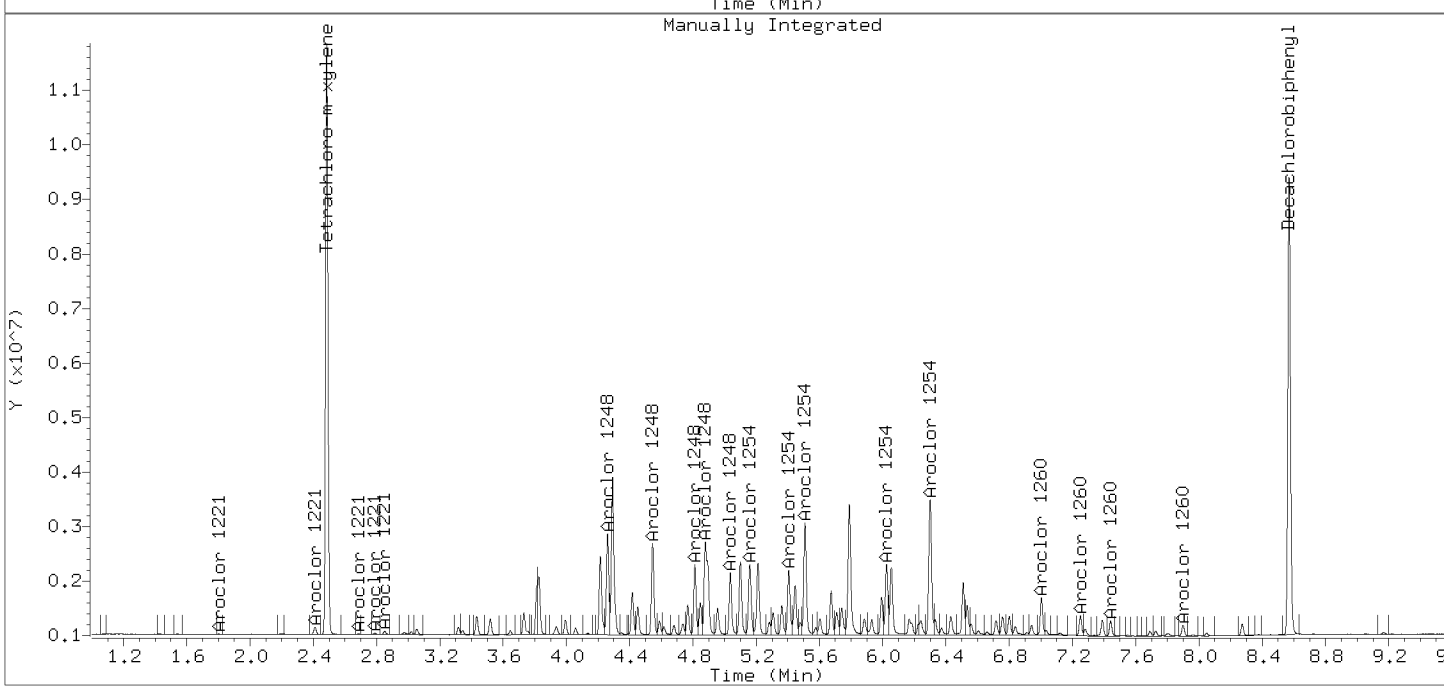
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018014.D
Date : 10-APR-2018 15:57
Client ID: ND5-170615-01-BB-08
Sample Info: 40157703007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 15:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	139618	0	
Aroclor 1016	139618	0	
Aroclor 1016	139618	0	
Aroclor 1016	139618	0	
Aroclor 1016	139618	0	
Aroclor 1221	10276	12513	BA
Aroclor 1221	10276	12513	BA
Aroclor 1221	10276	12513	BA
Aroclor 1221	10276	12513	BA
Aroclor 1221	10276	12513	BA
Aroclor 1232	70702	0	
Aroclor 1232	70702	0	
Aroclor 1232	70702	0	
Aroclor 1232	70702	0	

Aroclor 1232	70702	0	
Aroclor 1242	139618	0	
Aroclor 1242	139618	0	
Aroclor 1242	139618	0	
Aroclor 1242	139618	0	
Aroclor 1242	139618	0	
Aroclor 1248	1673984	1991891	BA
Aroclor 1248	1673984	1991891	BA
Aroclor 1248	1673984	1991891	BA
Aroclor 1248	1673984	1991891	BA
Aroclor 1248	1673984	1991891	BA
Aroclor 1254	1502801	1560194	BA
Aroclor 1254	1502801	1560194	BA
Aroclor 1254	1502801	1560194	BA
Aroclor 1254	1502801	1560194	BA
Aroclor 1254	1502801	1560194	BA
Aroclor 1260	3102917	0	CO
Aroclor 1260	3102917	0	CO
Aroclor 1260	3102917	0	CO
Aroclor 1260	3102917	0	CO
Aroclor 1260	3102917	0	CO
Tetrachloro-m-xylene	11325973	11338655	BA
Decachlorobiphenyl	9613722	9613722	

==========

SAMPLE NO.

ND5-170615-01-BB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703008
Date Analyzed: 04/10/2018 16:13
Lab File ID: 041018.B\041018015.D
Initial wt/vol: 9.9893 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)	221	
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)	452	
11097-69-1	PCB-1254 (Aroclor 1254)	237	
11096-82-5	PCB-1260 (Aroclor 1260)	68.8	J
1336-36-3	PCB, Total	980	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018015.D
Lab Smp Id: 40157703008 Client Smp ID: ND5-170615-01-BB-07
Inj Date : 10-APR-2018 16:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703008 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.989	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	20397	11052	0.542	0.03		
1.804	24642	17610	0.715	0.04	1 Aroclor 1221	BA
2.410	541895	399899	0.738	1.00	1 Aroclor 1221	BA
2.485	5717589	5247671	0.918	11.22	$ 2 Tetrachloro-m-xylene	BA
2.682	39743	31164	0.784	0.07	1 Aroclor 1221	BA
2.789	31060	25323	0.815	0.05	1 Aroclor 1221	BA
2.851	111622	90098	0.807	0.20	1 Aroclor 1221	BA
2.975	32258	21121	0.655	0.06		
3.018	25042	23008	0.919	0.04		
3.055	266251	237963	0.894	0.49		
3.317	134718	122769	0.911	0.25		
3.344	82923	68821	0.830	0.15		
3.433	522464	487541	0.933	0.97		
3.519	317703	288428	0.908	0.59		
3.644	89750	76268	0.850	0.16		
3.731	519332	443223	0.853	0.96		
3.814	789323	921383	1.167	1.46		
3.825	965474	921456	0.954	1.79		
3.939	204406	164705	0.806	0.38		
3.993	227292	202702	0.892	0.42		
4.058	106081	94117	0.887	0.19		
4.138	26441	17789	0.673	0.04		
4.214	1393741	1176155	0.844	2.59		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	1644132	1547481	0.941	3.06	6 Aroclor 1248
4.292	3132546	2618455	0.836	5.83	
4.348	47918	34528	0.721	0.08	
4.417	576817	540142	0.936	1.07	
4.451	359520	319493	0.889	0.66	
4.546	1582920	1446270	0.914	2.94	6 Aroclor 1248
4.588	254160	237188	0.933	0.47	
4.616	105551	85001	0.805	0.19	
4.679	153248	145381	0.949	0.28	
4.735	193799	165294	0.853	0.36	
4.768	490163	449768	0.918	0.91	
4.812	1018793	954379	0.937	1.89	6 Aroclor 1248
4.847	433546	408064	0.941	0.80	
4.879	2373660	1202270	0.507	4.41	6 Aroclor 1248
4.956	502271	422362	0.841	0.93	
5.037	730405	650096	0.890	1.35	6 Aroclor 1248
5.101	1320405	1128425	0.855	2.45	
5.159	1091536	901709	0.826	2.03	7 Aroclor 1254
5.211	1038238	870719	0.839	1.93	
5.282	187820	191945	1.022	0.34	
5.306	427768	348183	0.814	0.79	
5.362	362408	310273	0.856	0.67	
5.406	1000723	885796	0.885	1.86	7 Aroclor 1254
5.447	640332	517966	0.809	1.19	
5.478	186934	171244	0.916	0.34	
5.509	1814533	1556458	0.858	3.37	7 Aroclor 1254
5.576	100275	92188	0.919	0.18	
5.604	220210	176643	0.802	0.40	
5.674	734684	697133	0.949	1.36	
5.709	369506	301764	0.817	0.68	
5.742	423558	332799	0.786	0.78	
5.789	2016935	1508665	0.748	3.75	
5.884	289411	218641	0.755	0.53	
5.931	272298	210607	0.773	0.50	
5.993	498729	458346	0.919	0.92	
6.024	931211	780137	0.838	1.73	7 Aroclor 1254
6.054	896895	753930	0.841	1.66	
6.167	337492	199547	0.591	0.62	
6.227	101250	122013	1.205	0.18	
6.241	217777	167263	0.768	0.40	
6.300	2078139	1669923	0.804	3.86	7 Aroclor 1254
6.331	183179	161154	0.880	0.34	
6.372	99262	75020	0.756	0.18	
6.430	308704	248783	0.806	0.57	
6.509	723660	644298	0.890	1.34	
6.535	351167	311346	0.887	0.65	
6.558	136273	125794	0.923	0.25	
6.603	63115	48675	0.771	0.11	
6.660	40815	34027	0.834	0.07	
6.716	203725	175475	0.861	0.37	
6.756	252039	214878	0.853	0.46	
6.801	236297	206561	0.874	0.43	
6.838	139019	99057	0.713	0.25	
6.909	24574	24539	0.999	0.04	
6.940	123000	107898	0.877	0.22	
7.003	521979	455062	0.872	0.97	8 Aroclor 1260
7.035	47816	56306	1.178	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.073	10535	9215	0.875	0.01	
7.121	32782	25880	0.789	0.06	
7.249	286236	248887	0.870	0.53	8 Aroclor 1260
7.278	99143	79783	0.805	0.18	
7.332	12417	10085	0.812	0.02	
7.387	240579	202894	0.843	0.44	
7.441	234768	201466	0.858	0.43	8 Aroclor 1260
7.469	14097	10979	0.779	0.02	
7.548	10441	11845	1.134	0.01	
7.627	10272	9182	0.894	0.01	
7.689	69115	65638	0.950	0.12	
7.725	76163	63763	0.837	0.14	
7.799	47860	28957	0.605	0.08	
7.899	217670	179052	0.823	0.40	8 Aroclor 1260
7.964	29619	18698	0.631	0.05	
8.049	50721	38911	0.767	0.09	
8.274	183799	164021	0.892	0.34	
8.375	10944	8739	0.798	0.02	
8.443	11762	7472	0.635	0.02	
8.570	5236796	4547875	0.868	9.74	$ 12 Decachlorobiphenyl
9.168	32669	30145	0.923	0.06	
	53721674	45841115		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018015.D
Lab Smp Id: 40157703008 Client Smp ID: ND5-170615-01-BB-07
Inj Date : 10-APR-2018 16:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703008 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.989	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	24642	0.02367	24	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	541895	0.98914	990	0.00- 20.00	2199.07	BA
2.682	2.688	-0.006	39743	0.02873	29	0.00- 20.00	161.28	BA
2.788	2.789	-0.001	31060	0.02809	28	0.00- 20.00	126.04	BA
2.851	2.851	0.000	111622	0.03429	34	0.00- 20.00	452.97	BA
Average of Peak Concentrations =					220			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5717589	0.04637	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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

    4 Aroclor 1232                                CAS #: 1114-16-5

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

Operator disabled compound identification.
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.260    4.261   -0.001         1644132 0.70173      700   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1582919 0.38140      380   0.00-  20.00    96.28         BA
4.812    4.812    0.000         1018793 0.50185      500   0.00-  20.00    61.97         BA
4.878    4.879   -0.001         2373659 0.47120      470   0.00-  20.00   144.37         BA
5.036    5.038   -0.002          730404 0.20354      200   0.00-  20.00    44.42         BA
               Average of Peak Concentrations =      450
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.159    5.162   -0.003         1091536 0.20850      210   0.00-  20.00   100.00(M)      CO
5.406    5.408   -0.002         1000723 0.23267      230   0.00-  20.00    91.68         CO
5.509    5.510   -0.001         1814532 0.23365      230   0.00-  20.00   166.24         CO
6.024    6.027   -0.003          931210 0.19123      190   0.00-  20.00    85.31         CO
6.300    6.299    0.001         2078139 0.31936      320   0.00-  20.00   190.39         CO
               Average of Peak Concentrations =      240
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.300    6.300    0.000               0    0.00     0.00   0.00-  20.00     0.00(M)      CO
7.002    7.006   -0.004          521978 0.05212       52   0.00-  20.00    25.19         CO
7.249    7.251   -0.002          286236 0.05988       60   0.00-  20.00    12.67         CO
7.440    7.443   -0.003          234767 0.08053       81   0.00-  20.00    11.01         CO
7.899    7.901   -0.002          217670 0.08249       82   0.00-  20.00     9.64         CO
               Average of Peak Concentrations =       69
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.569    8.571   -0.002         5236796 0.04780       48
-------------------------------------------------------------------------------
```

QC Flag Legend

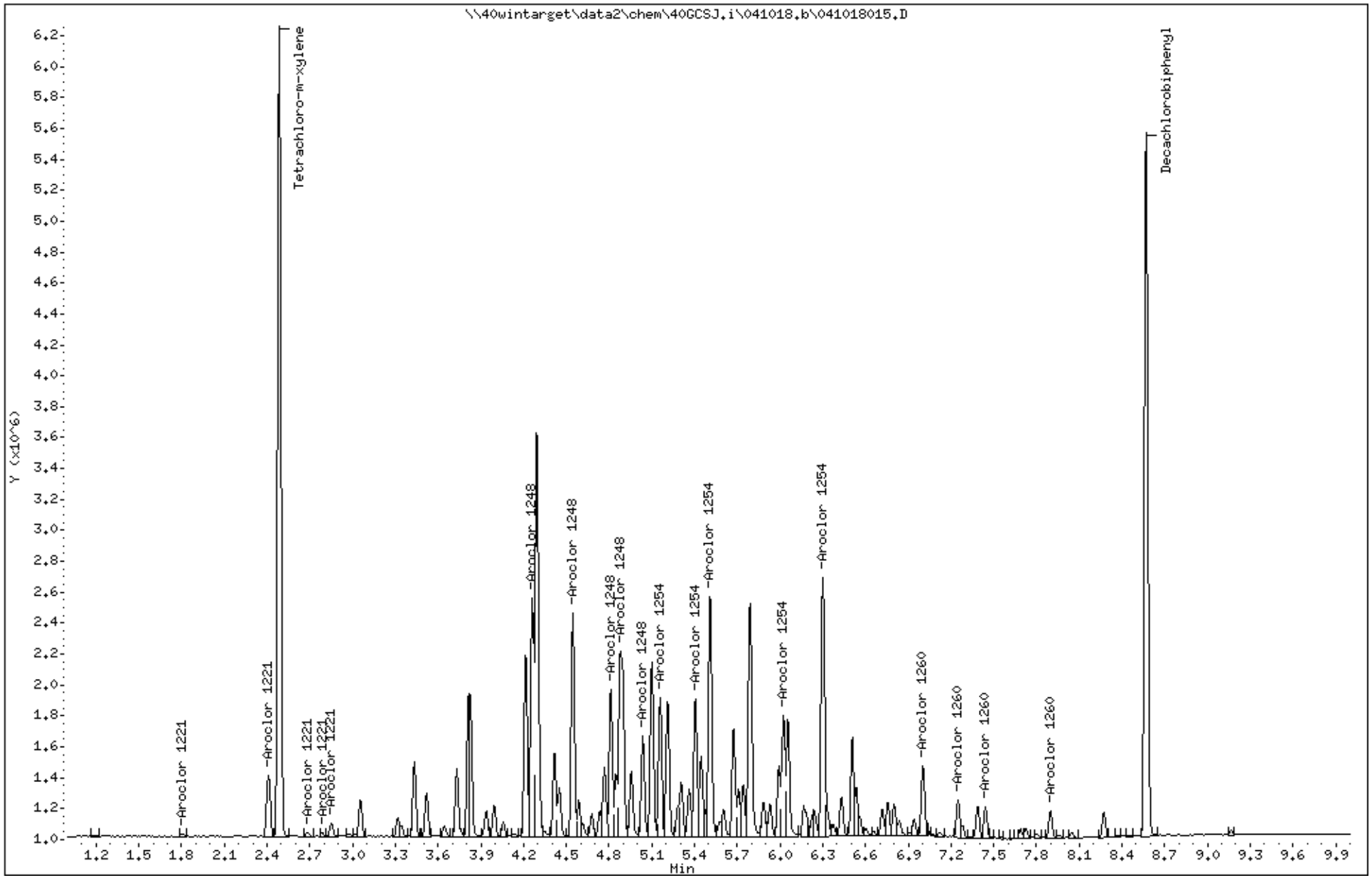
M - Compound response manually integrated.

Review Codes Legend

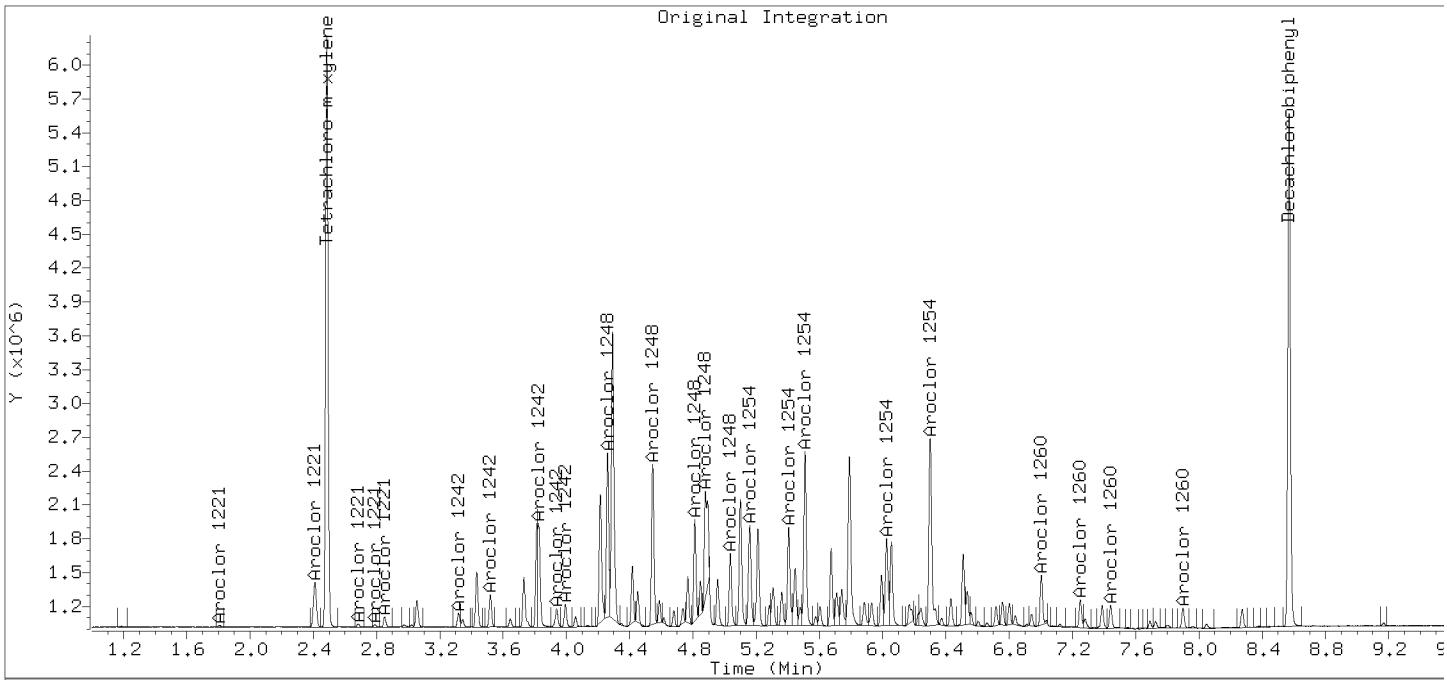
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

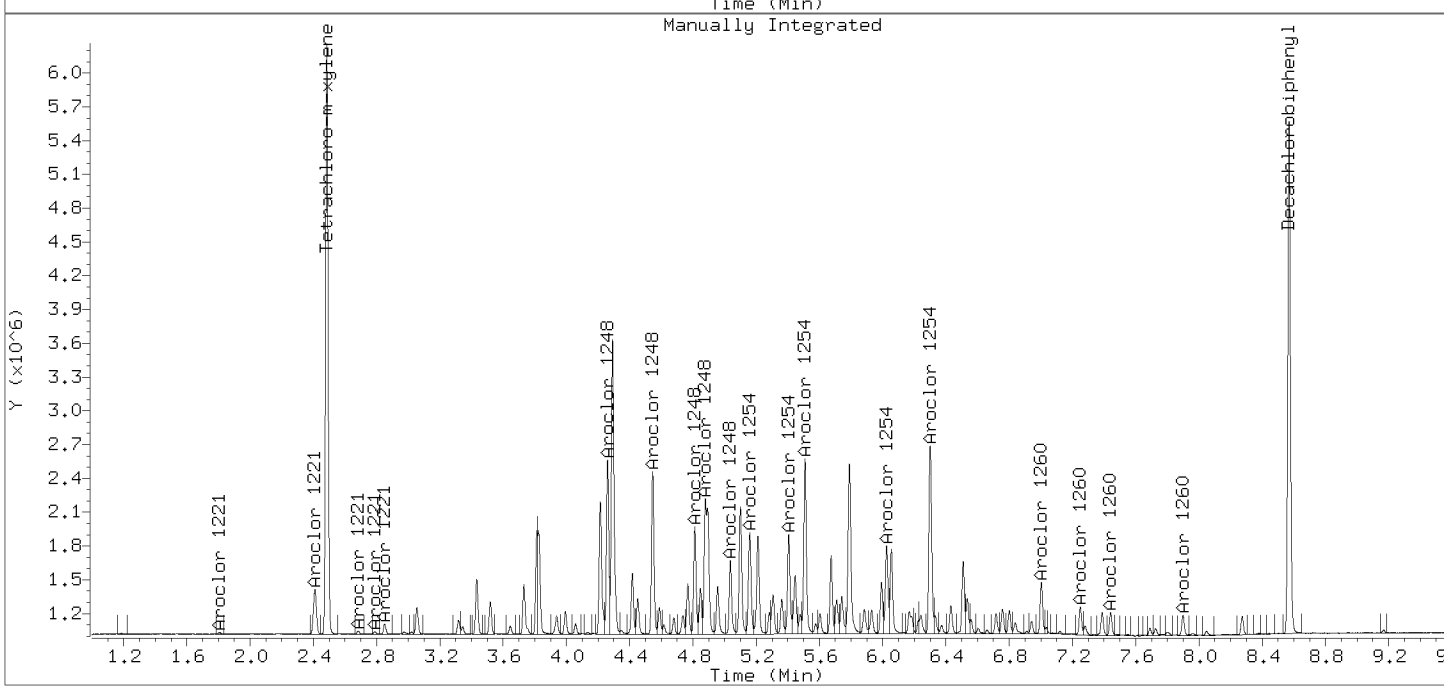
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018015.D
Date : 10-APR-2018 16:13
Client ID: ND5-170615-01-BB-07
Sample Info: 40157703008 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 16:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	134672	0	
Aroclor 1016	134672	0	
Aroclor 1016	134672	0	
Aroclor 1016	134672	0	
Aroclor 1016	134672	0	
Aroclor 1221	24090	24642	BA
Aroclor 1221	24090	24642	BA
Aroclor 1221	24090	24642	BA
Aroclor 1221	24090	24642	BA
Aroclor 1221	24090	24642	BA
Aroclor 1232	107213	0	
Aroclor 1232	107213	0	
Aroclor 1232	107213	0	
Aroclor 1232	107213	0	

Aroclor 1232	107213	0	
Aroclor 1242	134672	0	
Aroclor 1242	134672	0	
Aroclor 1242	134672	0	
Aroclor 1242	134672	0	
Aroclor 1242	134672	0	
Aroclor 1248	1467049	1644132	BA
Aroclor 1248	1467049	1644132	BA
Aroclor 1248	1467049	1644132	BA
Aroclor 1248	1467049	1644132	BA
Aroclor 1248	1467049	1644132	BA
Aroclor 1254	1042998	1091536	CO
Aroclor 1254	1042998	1091536	CO
Aroclor 1254	1042998	1091536	CO
Aroclor 1254	1042998	1091536	CO
Aroclor 1254	1042998	1091536	CO
Aroclor 1260	2198374	0	CO
Aroclor 1260	2198374	0	CO
Aroclor 1260	2198374	0	CO
Aroclor 1260	2198374	0	CO
Aroclor 1260	2198374	0	CO
Tetrachloro-m-xylene	5718869	5717589	BA
Decachlorobiphenyl	5236796	5236796	

==========

SAMPLE NO.

ND5-170615-01-BB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703009
Date Analyzed: 04/10/2018 17:01
Lab File ID: 041018.B\041018018.D
Initial wt/vol: 10.025 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)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	1310	
11097-69-1	PCB-1254 (Aroclor 1254)	829	
11096-82-5	PCB-1260 (Aroclor 1260)	313	
1336-36-3	PCB, Total	2450	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018018.D
Lab Smp Id: 40157703009 Client Smp ID: ND5-170615-01-BB-06
Inj Date : 10-APR-2018 17:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703009 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	49898	38154	0.765	0.08		
2.485	2300588	2128272	0.925	3.84	$ 2 Tetrachloro-m-xylene	
2.848	15948	12704	0.797	0.02		
2.975	25243	19590	0.776	0.04		
3.021	23643	20302	0.859	0.03		
3.056	44438	35811	0.806	0.07		
3.317	64638	59280	0.917	0.10		
3.345	29100	25076	0.862	0.04		
3.435	119247	101790	0.854	0.19		
3.518	154718	144851	0.936	0.25		
3.645	74085	64003	0.864	0.12		
3.732	642135	574724	0.895	1.07		
3.814	865334	1004551	1.161	1.44		
3.826	1117868	1077412	0.964	1.86		
3.937	79203	47790	0.603	0.13		
3.994	162420	146751	0.904	0.27		
4.058	129538	116986	0.903	0.21		
4.136	26883	21132	0.786	0.04		
4.214	1235797	1074748	0.870	2.06		
4.261	1925742	1817039	0.944	3.21	6 Aroclor 1248	BA
4.292	4586225	3902573	0.851	8.16		
4.344	62177	42989	0.691	0.10		
4.417	618739	580014	0.937	1.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	390922	340869	0.872	0.65	
4.546	1740256	1601444	0.920	2.90	6 Aroclor 1248
4.589	383150	346432	0.904	0.64	
4.615	116498	102926	0.884	0.19	
4.679	242148	221580	0.915	0.40	
4.736	255930	227388	0.888	0.42	
4.768	688843	644059	0.935	1.15	
4.813	1314550	1230545	0.936	2.19	6 Aroclor 1248
4.847	385728	359176	0.931	0.64	
4.879	2931052	1451045	0.495	4.89	6 Aroclor 1248
4.956	668674	574522	0.859	1.11	
5.037	531041	457346	0.861	0.88	6 Aroclor 1248
5.100	1794479	1530975	0.853	2.99	
5.158	1493510	1224303	0.820	2.49	7 Aroclor 1254
5.212	1351747	1139209	0.843	2.25	
5.283	293614	297069	1.012	0.49	
5.307	572609	483142	0.844	0.95	
5.362	377180	338651	0.898	0.63	
5.406	1304408	1136981	0.872	2.18	7 Aroclor 1254
5.446	892905	748251	0.838	1.49	
5.478	219690	199417	0.908	0.36	
5.509	2216157	1865914	0.842	3.70	7 Aroclor 1254
5.576	162990	144011	0.884	0.27	
5.603	221419	187960	0.849	0.37	
5.675	877052	819677	0.935	1.46	
5.708	507066	433623	0.855	0.84	
5.743	699368	559789	0.800	1.16	
5.790	3057715	2252765	0.737	5.11	
5.884	391076	299290	0.765	0.65	
5.931	428971	365740	0.853	0.71	
5.993	941815	882061	0.937	1.57	
6.024	1260481	1049773	0.833	2.10	7 Aroclor 1254
6.055	1307651	1095181	0.838	2.18	
6.168	478381	276179	0.577	0.79	
6.227	166070	198303	1.194	0.27	
6.241	346819	268181	0.773	0.57	
6.301	3443468	2768253	0.804	5.75	7 Aroclor 1254
6.331	269563	261631	0.971	0.45	
6.374	134815	105661	0.784	0.22	
6.431	524043	444973	0.849	0.87	
6.509	1340422	1188127	0.886	2.24	
6.534	555951	477745	0.859	0.92	
6.559	222292	212165	0.954	0.37	
6.603	110487	87965	0.796	0.18	
6.660	62292	58702	0.942	0.10	
6.716	317425	268482	0.846	0.53	
6.758	458198	411747	0.899	0.76	
6.800	404758	352097	0.870	0.67	
6.838	226020	164749	0.729	0.37	
6.913	49589	50408	1.017	0.08	
6.942	185521	165007	0.889	0.31	
7.004	997354	887919	0.890	1.66	8 Aroclor 1260
7.034	112510	103540	0.920	0.18	
7.071	14112	17058	1.209	0.02	
7.122	41045	37639	0.917	0.06	
7.251	482088	430267	0.893	0.80	8 Aroclor 1260
7.282	170157	141326	0.831	0.28	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	467189	386352	0.827	0.78	
7.442	465140	404600	0.870	0.77	8 Aroclor 1260
7.552	29790	25463	0.855	0.04	
7.689	121767	117044	0.961	0.20	
7.727	122468	89906	0.734	0.20	
7.800	63007	41074	0.652	0.10	
7.899	376496	323414	0.859	0.62	8 Aroclor 1260
7.963	45593	31658	0.694	0.07	
8.048	62370	49178	0.788	0.10	
8.273	292693	253158	0.865	0.48	
8.570	2243527	1924308	0.858	3.75	$ 12 Decachlorobiphenyl
9.169	46451	38634	0.832	0.07	
	59824178	50730569		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018018.D
Lab Smp Id: 40157703009 Client Smp ID: ND5-170615-01-BB-06
Inj Date : 10-APR-2018 17:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703009 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	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

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

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	2300587	0.01866		46		

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1925742	0.82192	2000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1740256	0.41931	1000	0.00- 20.00	90.37	BA
4.812	4.812	0.000	1314549	0.64754	1600	0.00- 20.00	68.26	BA
4.879	4.879	0.000	2931051	0.58185	1400	0.00- 20.00	152.20	BA
5.036	5.038	-0.002	531040	0.14798	370	0.00- 20.00	27.58	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.157	5.162	-0.005	1493509	0.28528	710	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1304408	0.30328	760	0.00- 20.00	87.34	CO
5.508	5.510	-0.002	2216156	0.28536	710	0.00- 20.00	148.39	CO
6.024	6.027	-0.003	1260481	0.25884	640	0.00- 20.00	84.40	CO
6.300	6.299	0.001	3443467	0.52919	1300	0.00- 20.00	230.56	CO
Average of Peak Concentrations =					830			
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	997354	0.09959	250	0.00- 20.00	26.89	CO
7.250	7.251	-0.001	482088	0.10086	250	0.00- 20.00	13.00	CO
7.442	7.443	-0.001	465140	0.15956	400	0.00- 20.00	12.54	CO
7.899	7.901	-0.002	376496	0.14268	360	0.00- 20.00	10.15	CO
Average of Peak Concentrations =					310			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2243527	0.02048	51			

QC Flag Legend

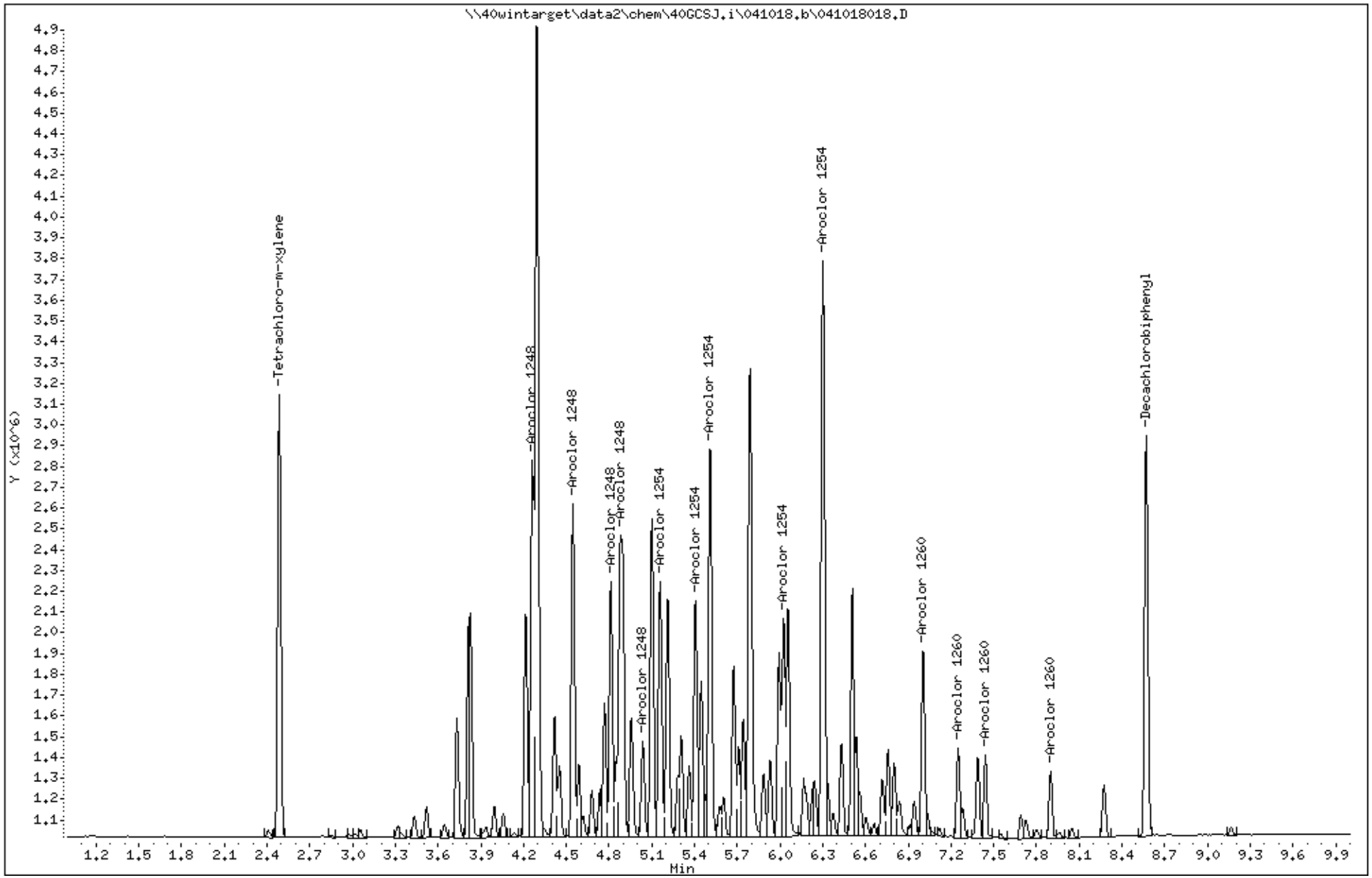
M - Compound response manually integrated.

Review Codes Legend

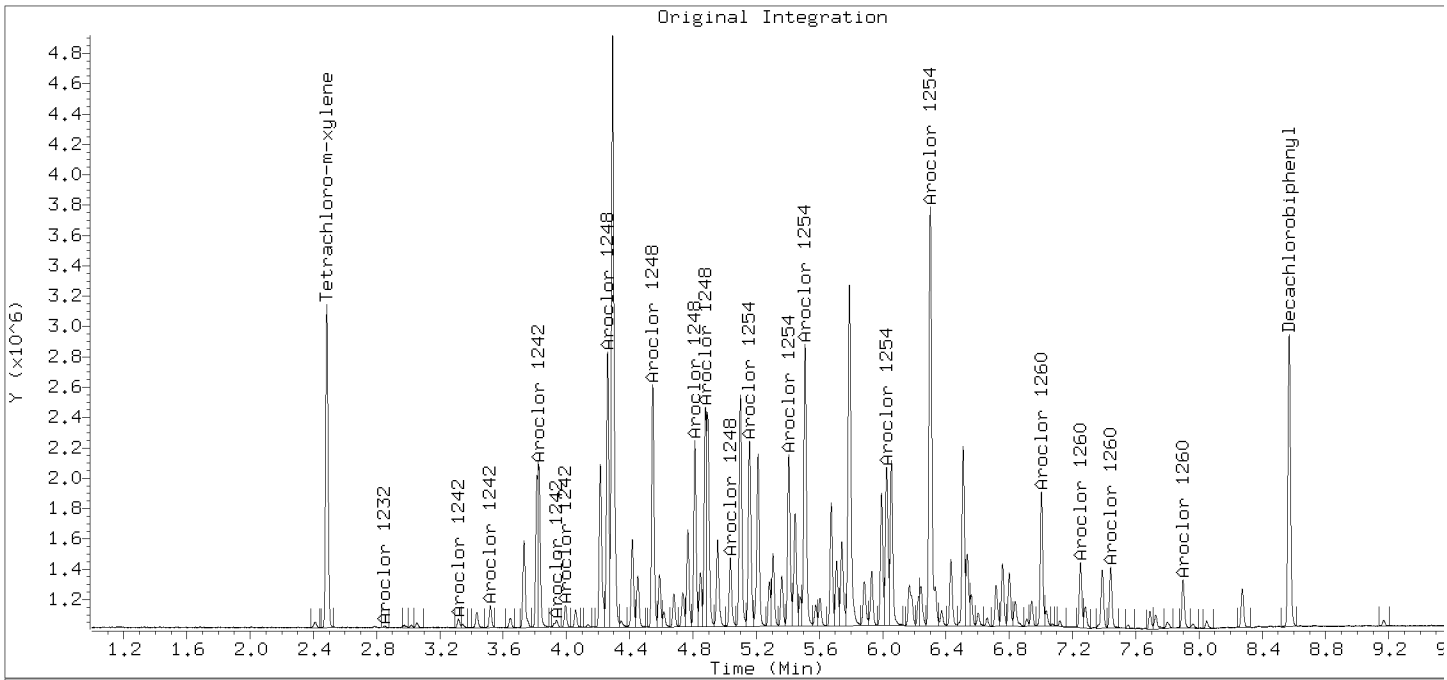
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

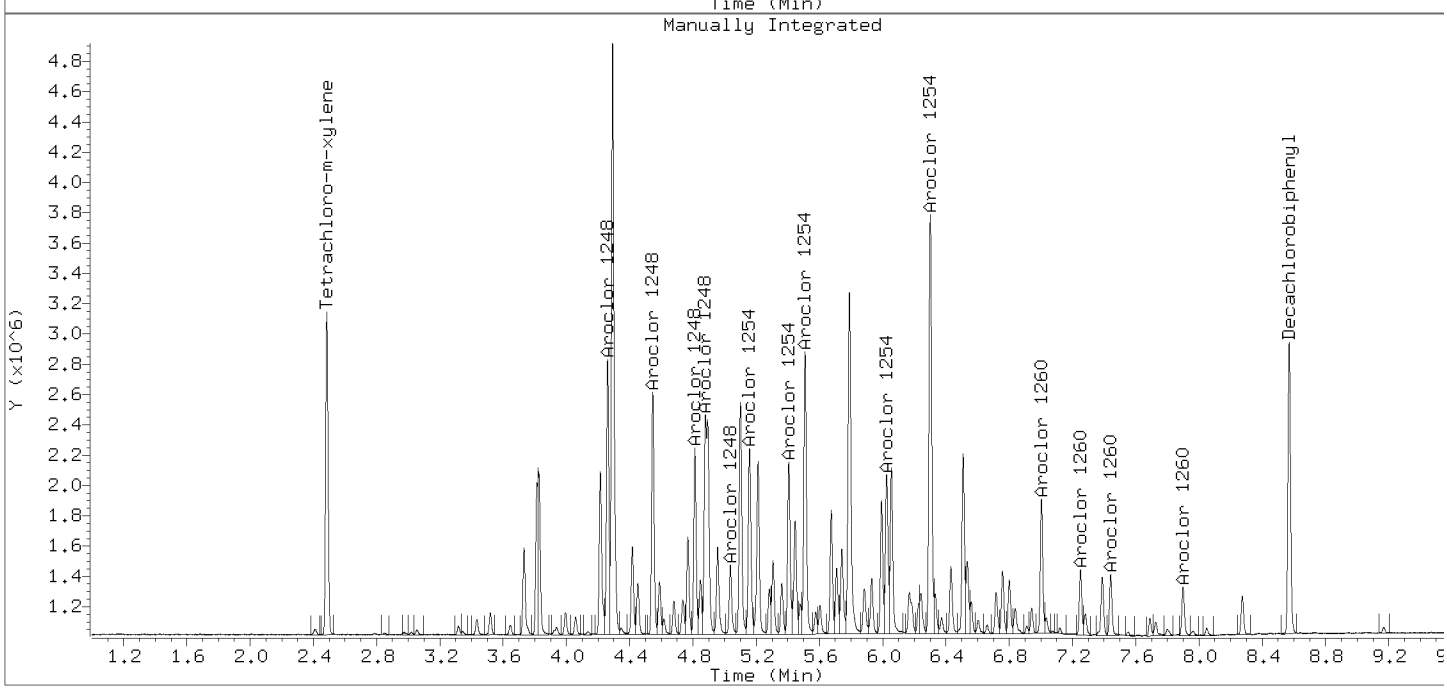
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018018.D
Date : 10-APR-2018 17:01
Client ID: ND5-170615-01-BB-06
Sample Info: 40157703009 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 17:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	64638	0	
Aroclor 1016	64638	0	
Aroclor 1016	64638	0	
Aroclor 1016	64638	0	
Aroclor 1016	64638	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	15948	0	
Aroclor 1232	15948	0	
Aroclor 1232	15948	0	
Aroclor 1232	15948	0	

Aroclor 1232	15948	0	
Aroclor 1242	64638	0	
Aroclor 1242	64638	0	
Aroclor 1242	64638	0	
Aroclor 1242	64638	0	
Aroclor 1242	64638	0	
Aroclor 1248	1917395	1925742	BA
Aroclor 1248	1917395	1925742	BA
Aroclor 1248	1917395	1925742	BA
Aroclor 1248	1917395	1925742	BA
Aroclor 1248	1917395	1925742	BA
Aroclor 1254	1478598	1493509	CO
Aroclor 1254	1478598	1493509	CO
Aroclor 1254	1478598	1493509	CO
Aroclor 1254	1478598	1493509	CO
Aroclor 1254	1478598	1493509	CO
Aroclor 1260	3688129	0	CO
Aroclor 1260	3688129	0	CO
Aroclor 1260	3688129	0	CO
Aroclor 1260	3688129	0	CO
Aroclor 1260	3688129	0	CO
Tetrachloro-m-xylene	2300587	2300587	
Decachlorobiphenyl	2243527	2243527	

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SAMPLE NO.

ND5-170615-01-BB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703010
Date Analyzed: 04/10/2018 17:16
Lab File ID: 041018.B\041018019.D
Initial wt/vol: 10.0253 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	891	
11097-69-1	PCB-1254 (Aroclor 1254)	474	
11096-82-5	PCB-1260 (Aroclor 1260)	114	J
1336-36-3	PCB, Total	1480	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018019.D
Lab Smp Id: 40157703010 Client Smp ID: ND5-170615-01-BB-05
Inj Date : 10-APR-2018 17:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703010 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	60039	44735	0.745	0.16		
2.485	2270373	2148939	0.947	6.20	$ 2 Tetrachloro-m-xylene	
2.788	21533	15735	0.731	0.05		
2.852	46678	43051	0.922	0.12		
2.971	12371	10383	0.839	0.03		
3.019	12565	11959	0.952	0.03		
3.054	33747	30179	0.894	0.09		
3.316	84542	77494	0.917	0.23		
3.342	40971	41046	1.002	0.11		
3.434	202846	189391	0.934	0.55		
3.518	233372	220043	0.943	0.63		
3.644	52848	48582	0.919	0.14		
3.732	311515	261036	0.838	0.85		
3.813	531825	574895	1.081	1.45		
3.826	599628	589610	0.983	1.63		
3.938	118367	80162	0.677	0.32		
3.993	165879	152398	0.919	0.45		
4.057	75132	65911	0.877	0.20		
4.136	17240	16512	0.958	0.04		
4.214	1040483	913815	0.878	2.84		
4.261	1371047	1282148	0.935	3.74	6 Aroclor 1248	BA
4.292	2592908	2189103	0.844	7.60		
4.417	441117	409715	0.929	1.20		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	330845	288694	0.873	0.90	
4.545	1203679	1114515	0.926	3.29	6 Aroclor 1248
4.589	196274	182471	0.930	0.53	
4.618	92402	77717	0.841	0.25	
4.680	127443	108104	0.848	0.34	
4.735	145058	127015	0.876	0.39	
4.767	375584	345807	0.921	1.02	
4.813	767952	703775	0.916	2.10	6 Aroclor 1248
4.847	347487	327235	0.942	0.95	
4.879	1738427	916107	0.527	4.75	6 Aroclor 1248
4.956	369771	309220	0.836	1.01	
5.037	670861	602295	0.898	1.83	6 Aroclor 1248
5.100	989101	863112	0.873	2.70	
5.159	945257	778944	0.824	2.58	7 Aroclor 1254
5.211	856375	723654	0.845	2.34	
5.283	143631	144488	1.006	0.39	
5.307	292299	234622	0.803	0.79	
5.362	313625	269021	0.858	0.85	
5.406	776123	682929	0.880	2.12	7 Aroclor 1254
5.445	494327	411373	0.832	1.35	
5.478	141243	132051	0.935	0.38	
5.509	1448016	1246109	0.861	3.96	7 Aroclor 1254
5.577	82221	73317	0.892	0.22	
5.604	182744	154742	0.847	0.49	
5.674	522808	486556	0.931	1.42	
5.709	277956	239839	0.863	0.76	
5.742	343616	269637	0.785	0.93	
5.789	1634412	1222739	0.748	4.46	
5.883	225811	165006	0.731	0.61	
5.929	182118	150718	0.828	0.49	
5.993	406576	361742	0.890	1.11	
6.026	766966	648852	0.846	2.09	7 Aroclor 1254
6.054	767249	651778	0.850	2.09	
6.169	263163	146586	0.557	0.71	
6.227	87071	100341	1.152	0.23	
6.242	171460	133338	0.778	0.46	
6.300	1597684	1306068	0.817	4.36	7 Aroclor 1254
6.330	145690	132095	0.907	0.39	
6.373	80841	59253	0.733	0.22	
6.431	217429	180335	0.829	0.59	
6.509	592825	530405	0.895	1.62	
6.534	259164	237914	0.918	0.70	
6.559	112648	100335	0.891	0.30	
6.604	52549	41184	0.784	0.14	
6.661	34550	28733	0.832	0.09	
6.717	173376	149851	0.864	0.47	
6.758	200708	176403	0.879	0.54	
6.800	192838	164073	0.851	0.52	
6.838	94654	70342	0.743	0.25	
6.909	21933	20522	0.936	0.05	
6.941	88984	78035	0.877	0.24	
7.004	379383	331845	0.875	1.03	8 Aroclor 1260
7.033	54018	45488	0.842	0.14	
7.076	9091	8703	0.957	0.02	
7.122	28388	20688	0.729	0.07	
7.250	201428	180261	0.895	0.55	8 Aroclor 1260
7.281	78824	59170	0.751	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.336	12222	10067	0.824	0.03	
7.388	152766	141826	0.928	0.41	
7.441	171474	147727	0.862	0.46	8 Aroclor 1260
7.550	10748	11414	1.062	0.02	
7.690	43369	41604	0.959	0.11	
7.725	48152	39594	0.822	0.13	
7.802	33792	21231	0.628	0.09	
7.900	117514	100140	0.852	0.32	8 Aroclor 1260
8.048	33252	26650	0.801	0.09	
8.273	99748	87482	0.877	0.27	
8.382	12115	9071	0.749	0.03	
8.569	2177583	1844025	0.847	5.95	$ 12 Decachlorobiphenyl
9.168	18008	16705	0.928	0.04	
	36564723	31230530		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018019.D
Lab Smp Id: 40157703010 Client Smp ID: ND5-170615-01-BB-05
Inj Date : 10-APR-2018 17:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703010 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	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

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	2270372	0.01841	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1371047	0.58517	1400	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1203679	0.29002	720	0.00- 20.00	87.79	BA
4.812	4.812	0.000	767951	0.37829	940	0.00- 20.00	56.01	BA
4.878	4.879	-0.001	1738427	0.34510	860	0.00- 20.00	126.80	BA
5.036	5.038	-0.002	670860	0.18694	470	0.00- 20.00	48.93	BA
Average of Peak Concentrations =					890			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	945257	0.18056	450	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	776123	0.18045	450	0.00- 20.00	82.11	BA
5.508	5.510	-0.002	1448015	0.18645	460	0.00- 20.00	153.19	BA
6.025	6.027	-0.002	766965	0.15750	390	0.00- 20.00	81.14	BA
6.299	6.299	0.000	1597684	0.24553	610	0.00- 20.00	169.02	BA
Average of Peak Concentrations =					470			
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	379382	0.03788	94	0.00- 20.00	23.75	BA
7.250	7.251	-0.001	201428	0.04214	100	0.00- 20.00	12.61	BA
7.440	7.443	-0.003	171473	0.05882	150	0.00- 20.00	10.73	BA
7.899	7.901	-0.002	117513	0.04453	110	0.00- 20.00	7.36	BA
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2177582	0.01988	50			

QC Flag Legend

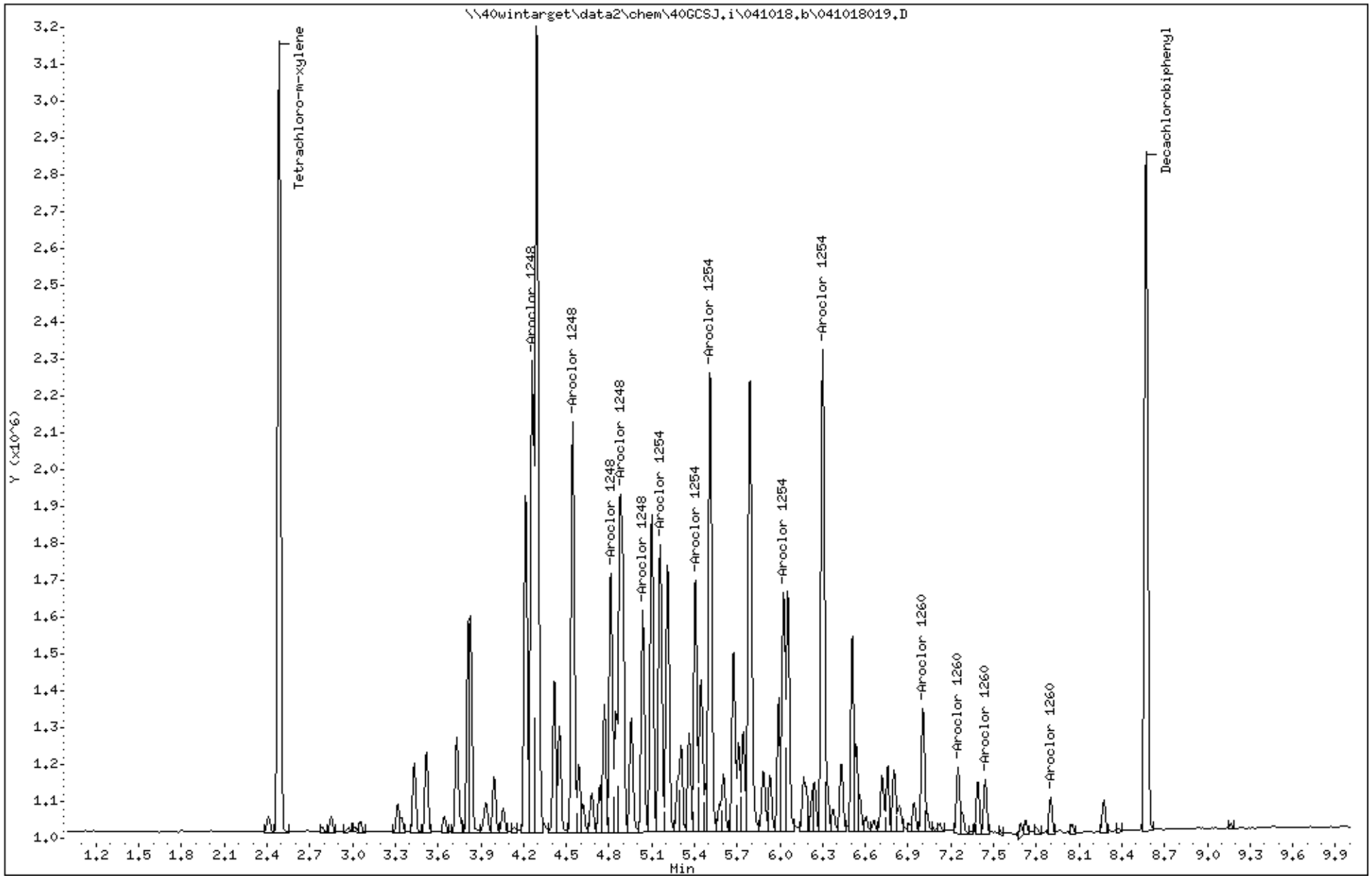
M - Compound response manually integrated.

Review Codes Legend

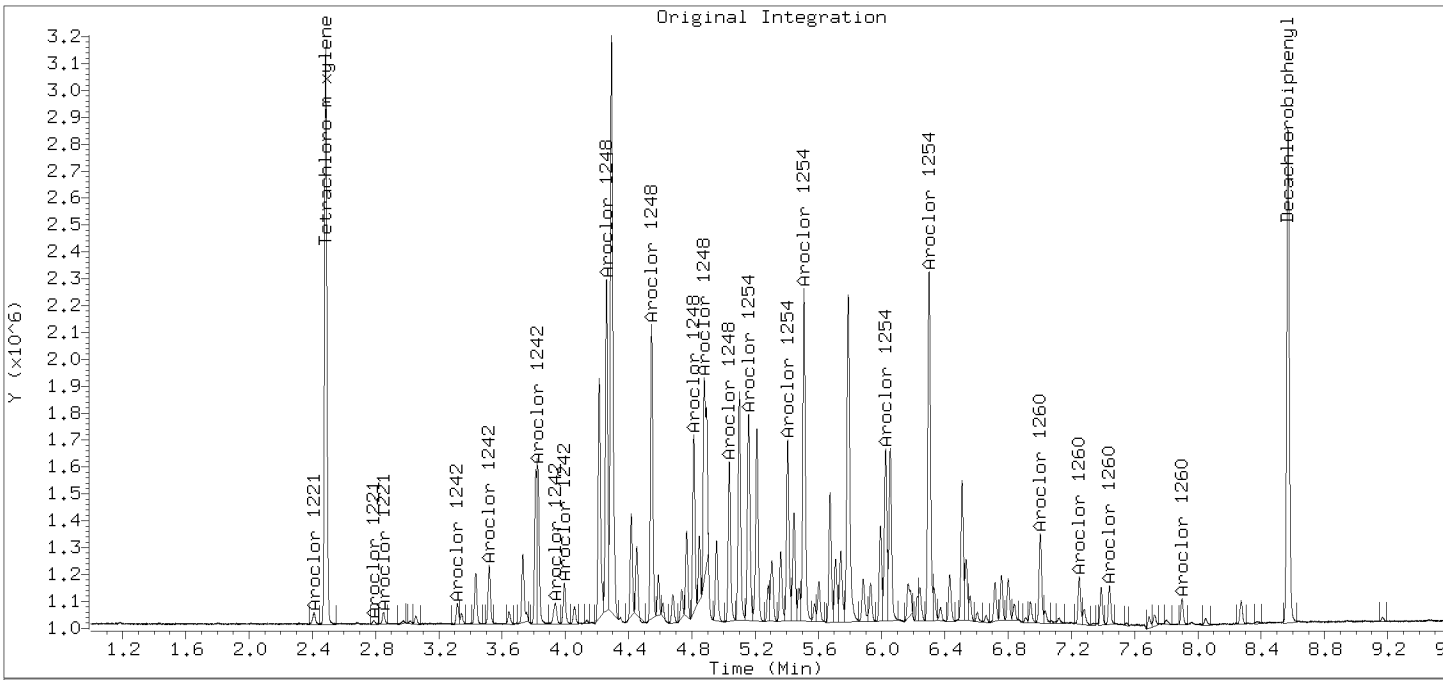
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

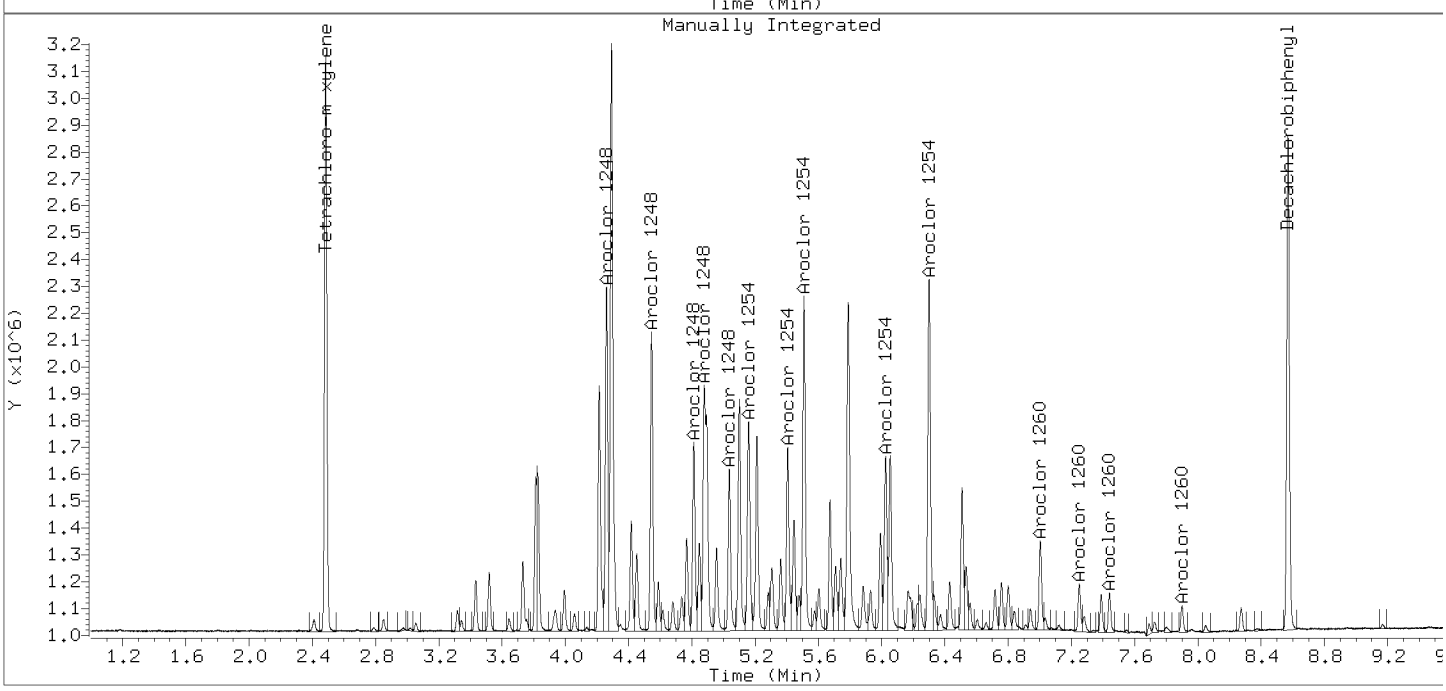
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018019.D
Date : 10-APR-2018 17:16
Client ID: ND5-170615-01-BB-05
Sample Info: 40157703010 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 17:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	84542	0	
Aroclor 1016	84542	0	
Aroclor 1016	84542	0	
Aroclor 1016	84542	0	
Aroclor 1016	84542	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	46677	0	
Aroclor 1232	46677	0	
Aroclor 1232	46677	0	
Aroclor 1232	46677	0	

Aroclor 1232	46677	0	
Aroclor 1242	84542	0	
Aroclor 1242	84542	0	
Aroclor 1242	84542	0	
Aroclor 1242	84542	0	
Aroclor 1242	84542	0	
Aroclor 1248	1262291	1371047	BA
Aroclor 1248	1262291	1371047	BA
Aroclor 1248	1262291	1371047	BA
Aroclor 1248	1262291	1371047	BA
Aroclor 1248	1262291	1371047	BA
Aroclor 1254	909916	945257	BA
Aroclor 1254	909916	945257	BA
Aroclor 1254	909916	945257	BA
Aroclor 1254	909916	945257	BA
Aroclor 1254	909916	945257	BA
Aroclor 1260	1568654	0	BA
Aroclor 1260	1568654	0	BA
Aroclor 1260	1568654	0	BA
Aroclor 1260	1568654	0	BA
Aroclor 1260	1568654	0	BA
Tetrachloro-m-xylene	2270372	2270372	
Decachlorobiphenyl	2177582	2177582	

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SAMPLE NO.

ND5-170615-01-BB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703011
Date Analyzed: 04/10/2018 17:32
Lab File ID: 041018.B\041018020.D
Initial wt/vol: 9.9851 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)	74.0	J
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	436	
11097-69-1	PCB-1254 (Aroclor 1254)	265	
11096-82-5	PCB-1260 (Aroclor 1260)	118	
1336-36-3	PCB, Total	892	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018020.D
Lab Smp Id: 40157703011 Client Smp ID: ND5-170615-01-BB-04
Inj Date : 10-APR-2018 17:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703011 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.985	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.427	13069	7311	0.559	0.02			
2.412	129386	102984	0.796	0.22		1 Aroclor 1221	BA
2.485	5726258	5297339	0.925	10.61	$	2 Tetrachloro-m-xylene	BA
2.684	18354	13808	0.752	0.03		1 Aroclor 1221	BA
2.787	27645	19979	0.723	0.04		1 Aroclor 1221	BA
2.850	68238	56764	0.832	0.12		1 Aroclor 1221	BA
2.974	39428	25629	0.650	0.06			
3.021	27933	26057	0.933	0.04			
3.055	101917	88786	0.871	0.17			
3.318	112201	104373	0.930	0.19			
3.344	107380	93144	0.867	0.18			
3.433	318183	286699	0.901	0.56			
3.519	302146	276209	0.914	0.53			
3.646	84484	70770	0.838	0.14			
3.732	414975	342107	0.824	0.73			
3.814	1544354	887518	0.575	2.72			
3.938	137785	104560	0.759	0.24			
3.994	213431	192420	0.902	0.37			
4.058	113559	106089	0.934	0.20			
4.136	29648	24628	0.831	0.05			
4.214	1069486	913502	0.854	1.88			
4.261	1543575	1442532	0.935	2.72		6 Aroclor 1248	BA
4.292	3110135	2630696	0.846	5.48			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.349	49913	38332	0.768	0.08	
4.417	608964	559673	0.919	1.07	
4.452	418851	366357	0.875	0.73	
4.546	1474133	1357058	0.921	2.60	6 Aroclor 1248
4.588	267862	247600	0.924	0.47	
4.617	132202	112473	0.851	0.23	
4.681	151766	126622	0.834	0.26	
4.737	192685	168436	0.874	0.34	
4.768	508663	485240	0.954	0.89	
4.812	1064802	1005059	0.944	1.87	6 Aroclor 1248
4.847	469769	436143	0.928	0.82	
4.879	2334560	1264870	0.542	4.11	6 Aroclor 1248
4.956	514007	410007	0.798	0.90	
5.037	618367	555989	0.899	1.09	6 Aroclor 1248
5.100	1351661	1174427	0.869	2.38	
5.158	1145652	929259	0.811	2.02	7 Aroclor 1254
5.211	997333	823493	0.826	1.75	
5.285	224907	221817	0.986	0.39	
5.306	443447	368912	0.832	0.78	
5.363	325273	284227	0.874	0.57	
5.406	1084322	959953	0.885	1.91	7 Aroclor 1254
5.447	668549	549538	0.822	1.17	
5.477	161532	152744	0.946	0.28	
5.509	1752603	1499371	0.856	3.09	7 Aroclor 1254
5.576	120424	108586	0.902	0.21	
5.604	213097	176085	0.826	0.37	
5.675	629993	578221	0.918	1.11	
5.710	403092	340521	0.845	0.71	
5.743	562096	428842	0.763	0.99	
5.790	2377970	1762160	0.741	4.19	
5.884	338701	248667	0.734	0.59	
5.931	374140	306049	0.818	0.66	
5.992	767678	695627	0.906	1.35	
6.025	1035070	880014	0.850	1.82	7 Aroclor 1254
6.055	833547	687027	0.824	1.47	
6.168	394668	225018	0.570	0.69	
6.228	124768	169129	1.356	0.22	
6.241	304158	221679	0.729	0.53	
6.301	2693721	2206555	0.819	4.75	7 Aroclor 1254
6.331	225524	208834	0.926	0.39	
6.371	113690	87797	0.772	0.20	
6.431	458066	395874	0.864	0.80	
6.509	1209180	1048717	0.867	2.13	
6.535	390884	377115	0.965	0.68	
6.559	209133	176108	0.842	0.36	
6.605	89093	70869	0.795	0.15	
6.661	61230	52683	0.860	0.10	
6.718	278582	242749	0.871	0.49	
6.758	399738	360495	0.902	0.70	
6.801	333597	296669	0.889	0.58	
6.838	210205	152247	0.724	0.37	
6.913	50032	51175	1.023	0.08	
6.942	193686	171470	0.885	0.34	
7.004	865038	792824	0.917	1.52	8 Aroclor 1260
7.034	104668	96574	0.923	0.18	
7.074	13243	15185	1.147	0.02	
7.121	39460	34910	0.885	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.251	382658	340974	0.891	0.67	8 Aroclor 1260
7.281	158289	127521	0.806	0.27	
7.336	12292	9936	0.808	0.02	
7.389	442276	388771	0.879	0.78	
7.442	462201	410037	0.887	0.81	8 Aroclor 1260
7.551	31218	24571	0.787	0.05	
7.690	112002	109651	0.979	0.19	
7.727	134277	109240	0.814	0.23	
7.799	82495	50937	0.617	0.14	
7.901	383003	326829	0.853	0.67	8 Aroclor 1260
7.962	49045	30717	0.626	0.08	
8.047	89272	71978	0.806	0.15	
8.273	341936	302260	0.884	0.60	
8.570	5288222	4629995	0.876	9.33	$ 12 Decachlorobiphenyl
9.056	15445	12528	0.811	0.02	
9.169	48557	39655	0.817	0.08	
	56666755	47863579		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018020.D
Lab Smp Id: 40157703011 Client Smp ID: ND5-170615-01-BB-04
Inj Date : 10-APR-2018 17:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703011 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.985	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.411	2.407	0.004	129386	0.23617	240	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	18353	0.01327	13	0.00- 20.00	0.00	BA
2.786	2.789	-0.003	27645	0.02500	25	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	68237	0.02096	21	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					74			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5726257	0.04644	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								BA
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1543575	0.65881	660	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1474133	0.35519	360	0.00- 20.00	95.50	BA
4.812	4.812	0.000	1064801	0.52451	520	0.00- 20.00	68.98	BA
4.878	4.879	-0.001	2334560	0.46344	460	0.00- 20.00	151.24	BA
5.036	5.038	-0.002	618367	0.17232	170	0.00- 20.00	40.06	BA
Average of Peak Concentrations =					440			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1145652	0.21883	220	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1084322	0.25211	250	0.00- 20.00	94.65	BA
5.508	5.510	-0.002	1752603	0.22567	230	0.00- 20.00	152.98	BA
6.024	6.027	-0.003	1035070	0.21255	210	0.00- 20.00	90.35	BA
6.301	6.299	0.002	2693721	0.41397	410	0.00- 20.00	235.13	BA
Average of Peak Concentrations =					260			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	865038	0.08638	86	0.00- 20.00	32.11	BA
7.251	7.251	0.000	382657	0.08006	80	0.00- 20.00	14.21	BA
7.441	7.443	-0.002	462201	0.15855	160	0.00- 20.00	17.16	BA
7.900	7.901	-0.001	383003	0.14515	140	0.00- 20.00	14.22	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5288222	0.04827	48			

QC Flag Legend

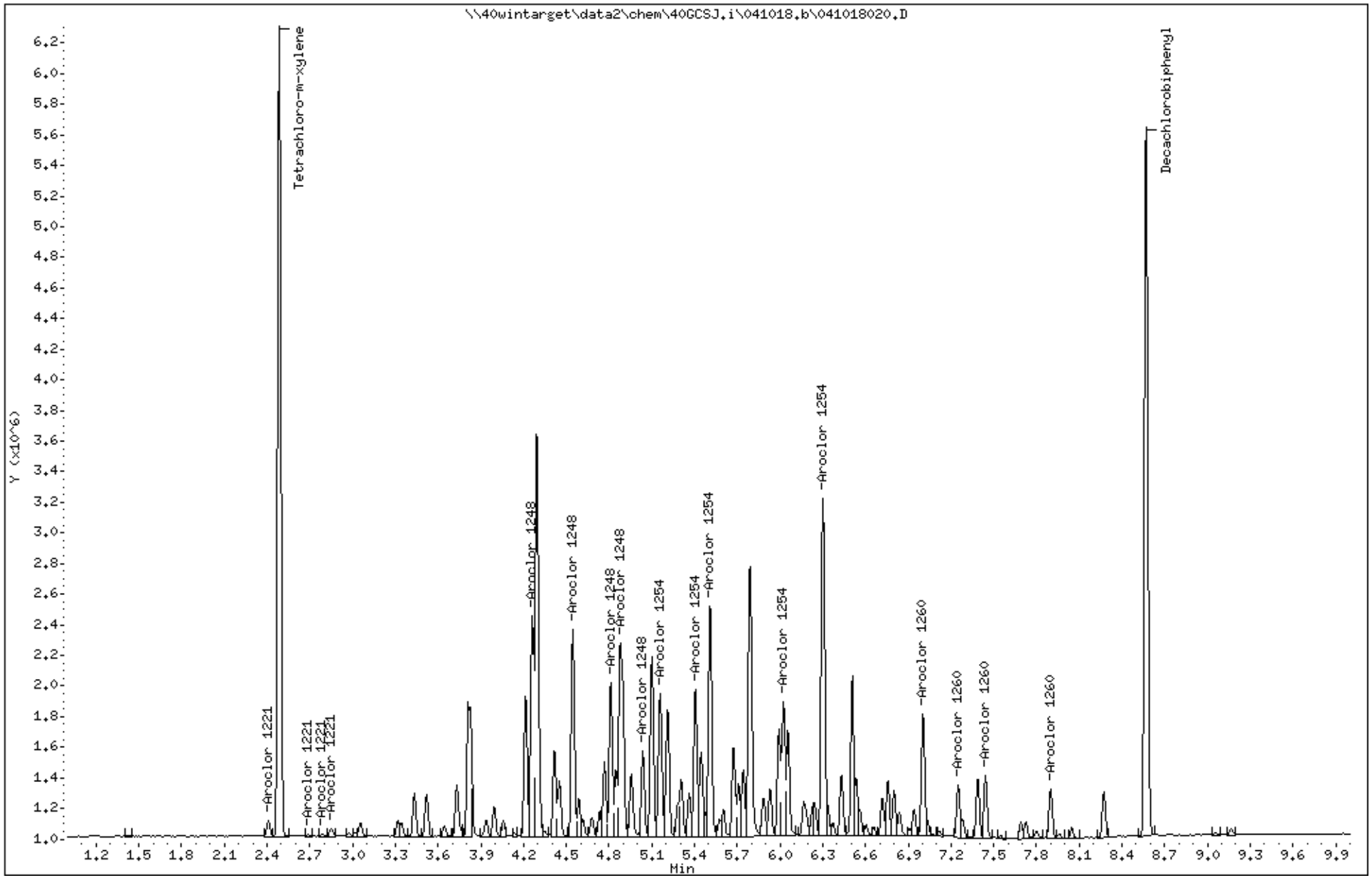
M - Compound response manually integrated.

Review Codes Legend

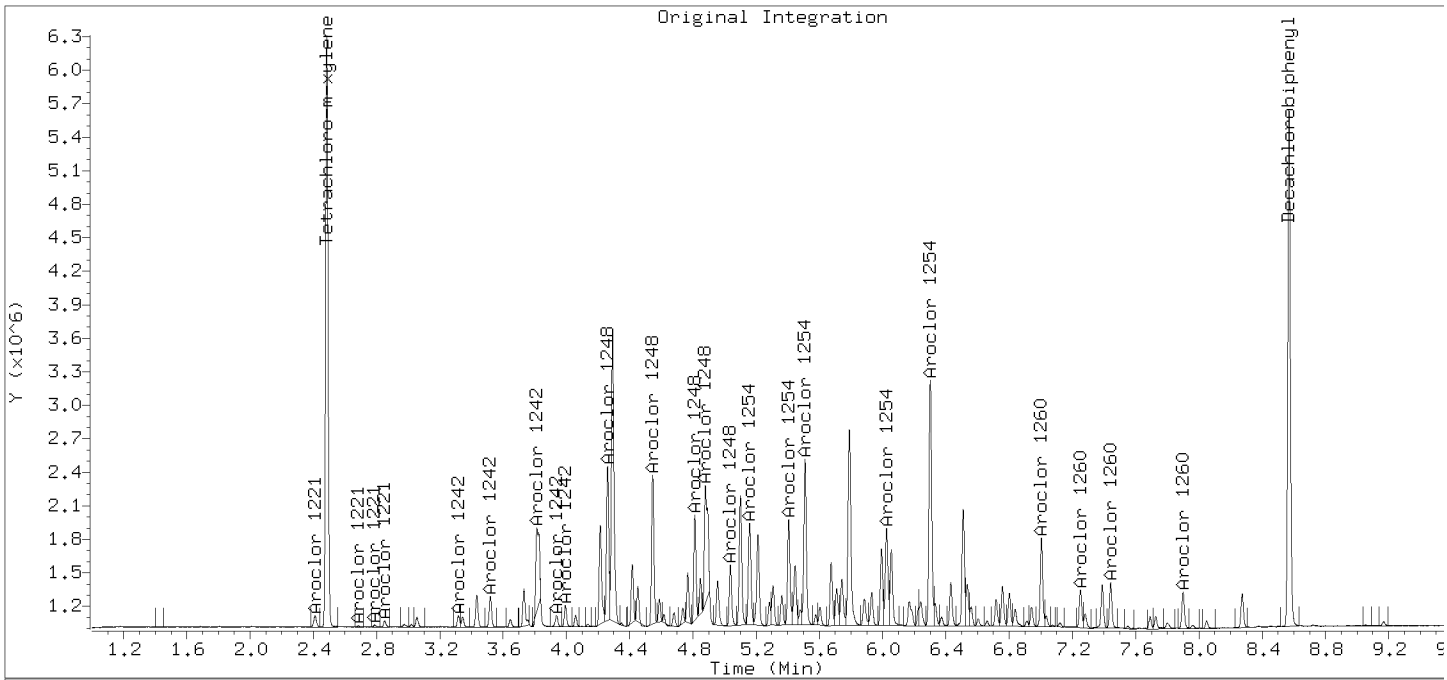
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

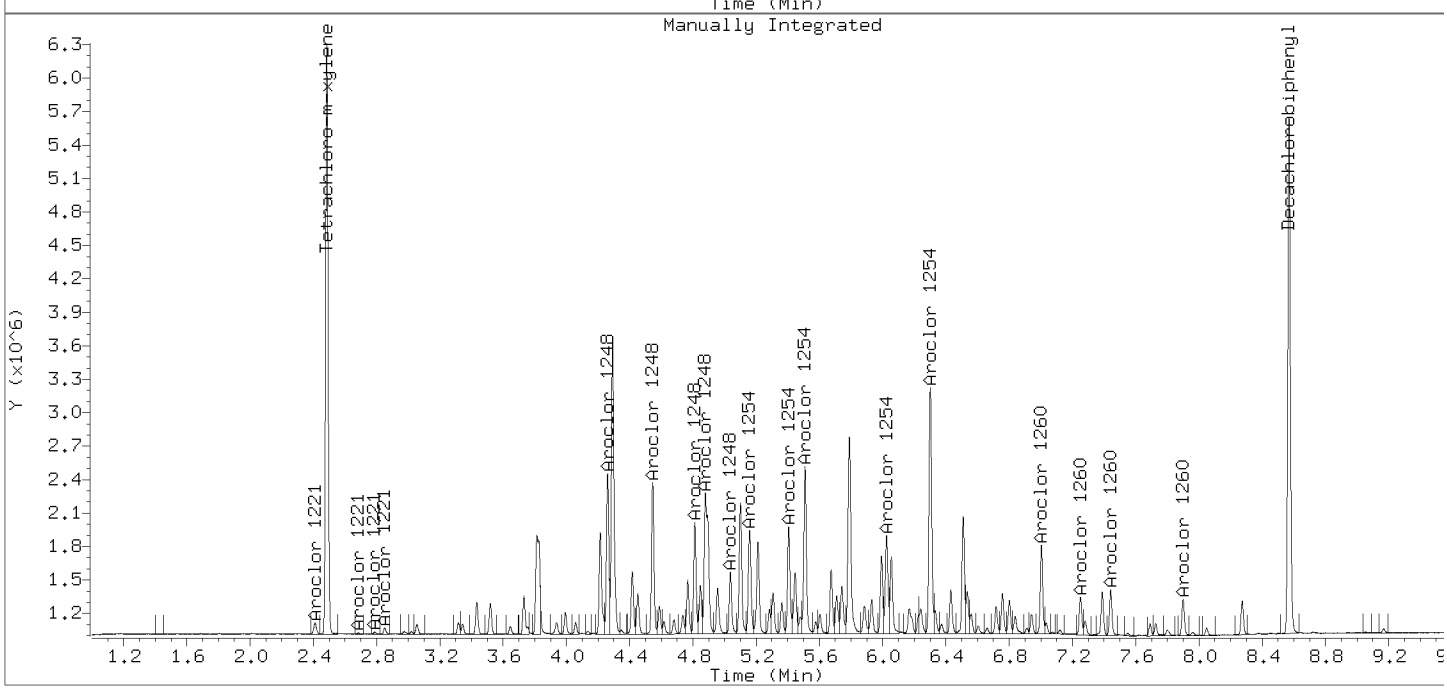
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018020.D
Date : 10-APR-2018 17:32
Client ID: ND5-170615-01-BB-04
Sample Info: 40157703011 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 17:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	112201	0	
Aroclor 1016	112201	0	
Aroclor 1016	112201	0	
Aroclor 1016	112201	0	
Aroclor 1016	112201	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	64325	0	BA
Aroclor 1232	64325	0	BA
Aroclor 1232	64325	0	BA
Aroclor 1232	64325	0	BA

Aroclor 1232	64325	0	BA
Aroclor 1242	112201	0	
Aroclor 1242	112201	0	
Aroclor 1242	112201	0	
Aroclor 1242	112201	0	
Aroclor 1242	112201	0	
Aroclor 1248	1419750	1543575	BA
Aroclor 1248	1419750	1543575	BA
Aroclor 1248	1419750	1543575	BA
Aroclor 1248	1419750	1543575	BA
Aroclor 1248	1419750	1543575	BA
Aroclor 1254	1089116	1145652	BA
Aroclor 1254	1089116	1145652	BA
Aroclor 1254	1089116	1145652	BA
Aroclor 1254	1089116	1145652	BA
Aroclor 1254	1089116	1145652	BA
Aroclor 1260	2674336	0	BA
Aroclor 1260	2674336	0	BA
Aroclor 1260	2674336	0	BA
Aroclor 1260	2674336	0	BA
Aroclor 1260	2674336	0	BA
Tetrachloro-m-xylene	5717800	5726257	BA
Decachlorobiphenyl	5288222	5288222	

==========

SAMPLE NO.

ND5-170615-01-BB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703012
Date Analyzed: 04/11/2018 15:03
Lab File ID: 041118.B\041118006.D
Initial wt/vol: 9.9921 g Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	953	
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)	658	
11097-69-1	PCB-1254 (Aroclor 1254)	370	J
11096-82-5	PCB-1260 (Aroclor 1260)	<114	U
1336-36-3	PCB, Total	1980	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118006.D
Lab Smp Id: 40157703012 Client Smp ID: ND5-170615-01-BB-03
Inj Date : 11-APR-2018 15:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703012 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
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	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.185	11571	9771	0.844	0.07			
1.806	45757	36909	0.807	0.27		1 Aroclor 1221	BA
2.411	432707	323995	0.749	2.63		1 Aroclor 1221	BA
2.485	1090096	1023067	0.939	6.62	$	2 Tetrachloro-m-xylene	BA
2.686	73494	62274	0.847	0.44		1 Aroclor 1221	BA
2.790	31090	23791	0.765	0.18		1 Aroclor 1221	BA
2.850	120110	105511	0.878	0.73		1 Aroclor 1221	BA
3.056	202095	188837	0.934	1.22			
3.319	75082	70879	0.944	0.45			
3.344	53881	49190	0.913	0.32			
3.435	265956	238416	0.896	1.61			
3.520	148812	132147	0.888	0.90			
3.645	39501	31156	0.789	0.24			
3.732	207776	172638	0.831	1.26			
3.813	486039	292914	0.603	2.95			
3.938	89262	73066	0.819	0.54			
3.995	67061	56115	0.837	0.40			
4.059	36578	30635	0.838	0.22			
4.133	13701	9423	0.688	0.08			
4.215	443248	377571	0.852	2.69			
4.261	461682	441313	0.956	2.80		6 Aroclor 1248	BA
4.292	958536	821696	0.857	5.82			
4.349	15445	13448	0.871	0.09			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.416	173394	161658	0.932	1.05	
4.453	113936	99854	0.876	0.69	
4.546	444106	405609	0.913	2.69	6 Aroclor 1248
4.590	107633	78124	0.726	0.65	
4.682	58984	48586	0.824	0.35	
4.735	67023	55163	0.823	0.40	
4.767	117964	105783	0.897	0.71	
4.813	304146	279158	0.918	1.84	6 Aroclor 1248
4.848	113880	102825	0.903	0.69	
4.879	751675	391815	0.521	4.56	6 Aroclor 1248
4.957	151642	123238	0.813	0.92	
5.037	195359	171900	0.880	1.18	6 Aroclor 1248
5.102	395441	334068	0.845	2.40	
5.161	320457	268696	0.838	1.94	7 Aroclor 1254
5.213	316950	256747	0.810	1.92	
5.284	57819	60339	1.044	0.35	
5.307	133398	107715	0.807	0.81	
5.361	109983	92369	0.840	0.66	
5.407	301052	267408	0.888	1.83	7 Aroclor 1254
5.447	190226	160317	0.843	1.15	
5.478	73803	69403	0.940	0.44	
5.509	581830	509081	0.875	3.53	7 Aroclor 1254
5.580	41782	36291	0.869	0.25	
5.605	62094	52720	0.849	0.37	
5.674	256855	241502	0.940	1.56	
5.709	136604	115475	0.845	0.83	
5.742	138906	113198	0.815	0.84	
5.791	653013	488199	0.748	3.97	
5.885	99561	78336	0.787	0.60	
5.932	81739	63517	0.777	0.49	
5.994	171000	157211	0.919	1.03	
6.027	314332	260948	0.830	1.91	7 Aroclor 1254
6.056	285825	234327	0.820	1.73	
6.170	120241	66919	0.557	0.73	
6.228	36162	41932	1.160	0.21	
6.245	74845	57129	0.763	0.45	
6.301	644046	533844	0.829	3.91	7 Aroclor 1254
6.332	45653	53298	1.167	0.27	
6.374	32119	26744	0.833	0.19	
6.432	98246	78111	0.795	0.59	
6.510	240397	210139	0.874	1.46	
6.536	95118	92356	0.971	0.57	
6.561	51161	44783	0.875	0.31	
6.605	20700	18673	0.902	0.12	
6.661	20288	15324	0.755	0.12	
6.717	85449	71175	0.833	0.51	
6.759	91968	82830	0.901	0.55	
6.802	82823	69393	0.838	0.50	
6.838	45167	32199	0.713	0.27	
6.910	13596	13798	1.015	0.08	
6.943	42759	38984	0.912	0.25	
7.005	171852	150278	0.874	1.04	8 Aroclor 1260
7.035	26236	22919	0.874	0.15	
7.119	21890	13552	0.619	0.13	
7.252	89405	78999	0.884	0.54	8 Aroclor 1260
7.282	37397	28055	0.750	0.22	
7.389	82393	68278	0.829	0.50	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.443	82014	68956	0.841	0.49	8 Aroclor 1260
7.689	24885	22212	0.893	0.15	
7.729	29249	20707	0.708	0.17	
7.900	58423	44774	0.766	0.35	8 Aroclor 1260
8.051	18981	12937	0.682	0.11	
8.274	50550	43139	0.853	0.30	
8.571	1127685	934497	0.829	7.33	$ 12 Decachlorobiphenyl
8.941	32953	17504	0.531	0.20	
9.471	37347	19704	0.528	0.22	
9.960	24523	16874	0.688	0.14	
	16448411	13687358		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118006.D
Lab Smp Id: 40157703012 Client Smp ID: ND5-170615-01-BB-03
Inj Date : 11-APR-2018 15:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703012 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
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	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.805	1.804	0.001	45756	0.04394	220	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	432706	0.78984	4000	0.00- 20.00	945.68	BA
2.685	2.688	-0.003	73493	0.05313	260	0.00- 20.00	160.62	BA
2.789	2.789	0.000	31090	0.02812	140	0.00- 20.00	67.95	BA
2.850	2.851	-0.001	120109	0.03690	180	0.00- 20.00	262.50	BA
Average of Peak Concentrations =					950			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	1090095	0.00884	44		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	461681	0.19705	990	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	444106	0.10701	540	0.00- 20.00	96.19	BA
4.813	4.812	0.001	304145	0.14982	750	0.00- 20.00	65.88	BA
4.878	4.879	-0.001	751675	0.14922	750	0.00- 20.00	162.81	BA
5.037	5.038	-0.001	195359	0.05444	270	0.00- 20.00	42.31	BA
Average of Peak Concentrations =					660			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	320457	0.06121	310	0.00- 20.00	100.00(M)	CO
5.407	5.408	-0.001	301052	0.06999	350	0.00- 20.00	93.94	CO
5.509	5.510	-0.001	581829	0.07492	370	0.00- 20.00	181.56	CO
6.027	6.027	0.000	314331	0.06455	320	0.00- 20.00	98.09	CO
6.300	6.299	0.001	644045	0.09898	500	0.00- 20.00	200.98	CO
Average of Peak Concentrations =					370			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1127685	0.01029	52			

QC Flag Legend

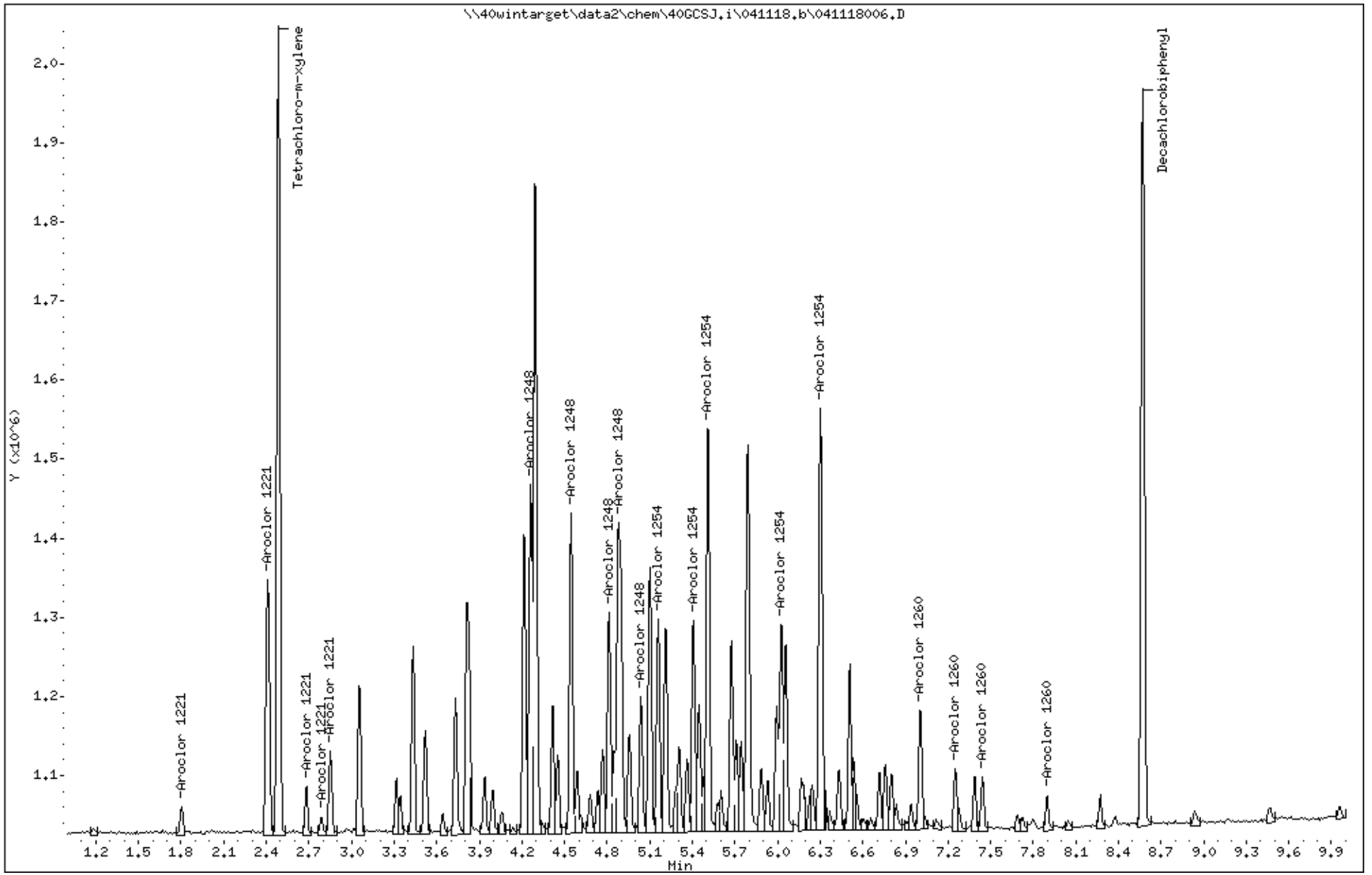
M - Compound response manually integrated.

Review Codes Legend

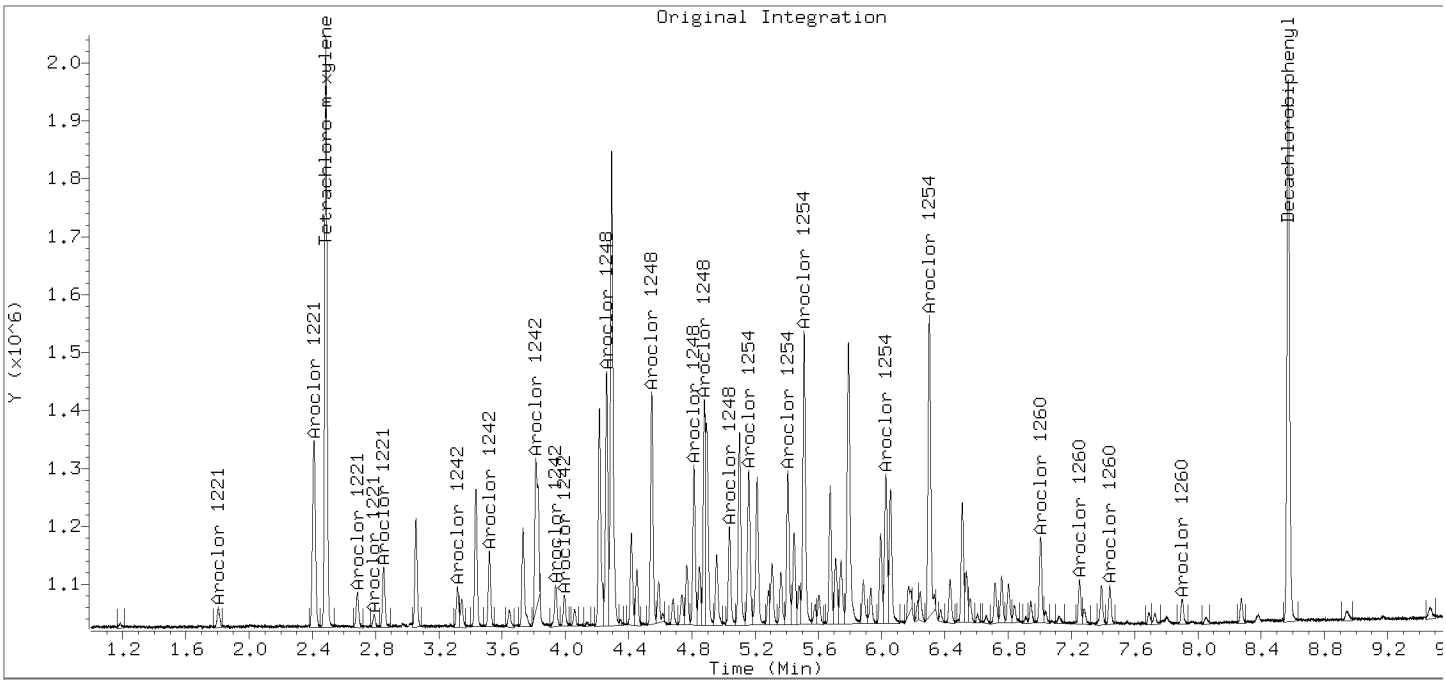
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

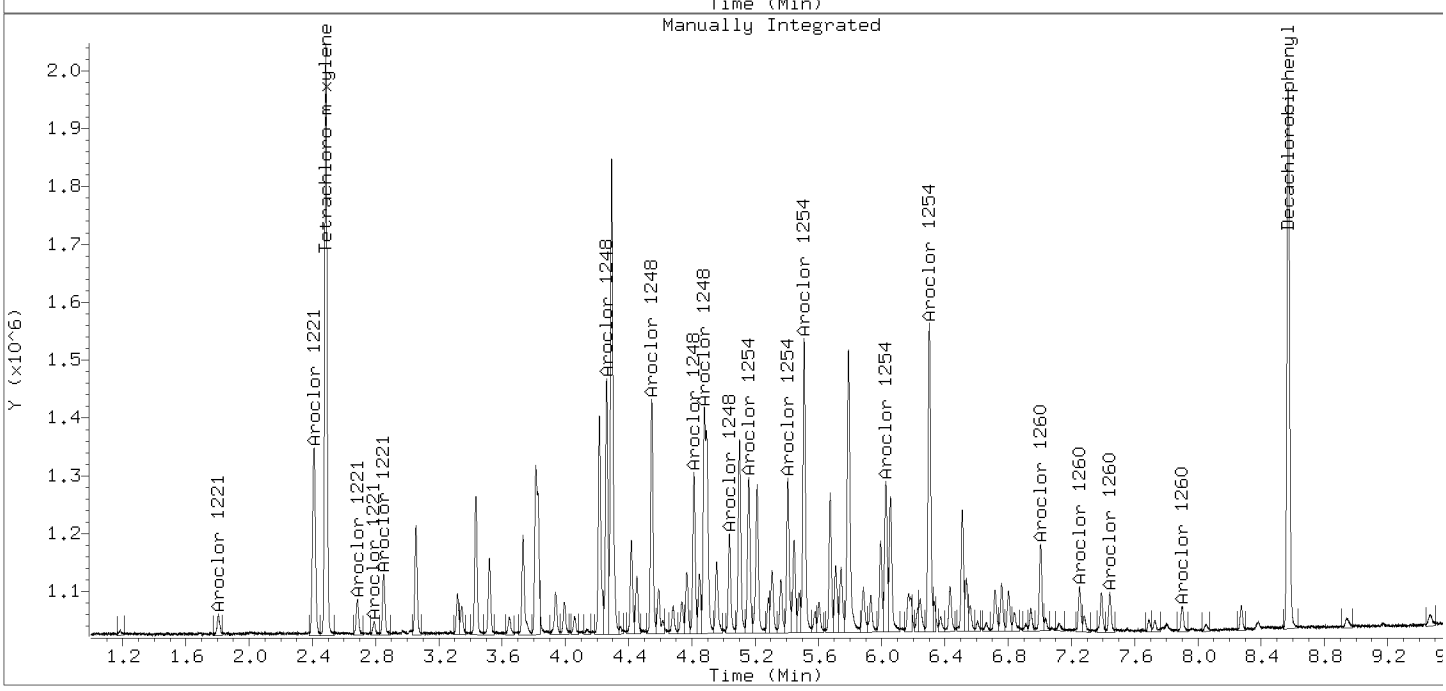
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118006.D
Date : 11-APR-2018 15:03
Client ID: ND5-170615-01-BB-03
Sample Info: 40157703012 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 15:03 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	74411	0	
Aroclor 1016	74411	0	
Aroclor 1016	74411	0	
Aroclor 1016	74411	0	
Aroclor 1016	74411	0	
Aroclor 1221	41563	45756	BA
Aroclor 1221	41563	45756	BA
Aroclor 1221	41563	45756	BA
Aroclor 1221	41563	45756	BA
Aroclor 1221	41563	45756	BA
Aroclor 1232	117238	0	
Aroclor 1232	117238	0	
Aroclor 1232	117238	0	
Aroclor 1232	117238	0	

Aroclor 1232	117238	0	
Aroclor 1242	74411	0	
Aroclor 1242	74411	0	
Aroclor 1242	74411	0	
Aroclor 1242	74411	0	
Aroclor 1242	74411	0	
Aroclor 1248	456348	461681	BA
Aroclor 1248	456348	461681	BA
Aroclor 1248	456348	461681	BA
Aroclor 1248	456348	461681	BA
Aroclor 1248	456348	461681	BA
Aroclor 1254	315523	320457	CO
Aroclor 1254	315523	320457	CO
Aroclor 1254	315523	320457	CO
Aroclor 1254	315523	320457	CO
Aroclor 1254	315523	320457	CO
Aroclor 1260	621647	0	BA
Aroclor 1260	621647	0	BA
Aroclor 1260	621647	0	BA
Aroclor 1260	621647	0	BA
Aroclor 1260	621647	0	BA
Tetrachloro-m-xylene	1078982	1090095	BA
Decachlorobiphenyl	1127685	1127685	

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SAMPLE NO.

ND5-170615-01-BB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703013
Date Analyzed: 04/10/2018 18:04
Lab File ID: 041018.B\041018022.D
Initial wt/vol: 10.0028 Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	619	
11097-69-1	PCB-1254 (Aroclor 1254)	518	
11096-82-5	PCB-1260 (Aroclor 1260)	231	
1336-36-3	PCB, Total	1370	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018022.D
Lab Smp Id: 40157703013 Client Smp ID: ND5-170615-01-BB-02
Inj Date : 10-APR-2018 18:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703013 x3,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.801	16742	8082	0.483	0.02		
2.410	103713	81047	0.781	0.18		
2.485	3842203	3600056	0.937	6.70	$ 2 Tetrachloro-m-xylene	
2.789	19570	15296	0.782	0.03		
2.851	37624	29625	0.787	0.06		
2.973	24214	15266	0.630	0.04		
3.018	19021	18232	0.959	0.03		
3.056	55200	47944	0.869	0.09		
3.319	53884	52627	0.977	0.09		
3.345	52221	46638	0.893	0.09		
3.433	176775	171190	0.968	0.30		
3.521	143926	128786	0.895	0.25		
3.644	29171	25131	0.862	0.05		
3.731	163713	145984	0.892	0.28		
3.826	981550	636955	0.649	1.71		
3.936	65120	46938	0.721	0.11		
3.993	115021	105155	0.914	0.20		
4.058	66490	57288	0.862	0.11		
4.136	19632	16520	0.841	0.03		
4.214	772967	710093	0.919	1.34		
4.261	1067326	1027416	0.963	1.86	6 Aroclor 1248	BA
4.292	1800098	1482480	0.824	3.14		
4.417	637010	599599	0.941	1.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	318832	288952	0.906	0.55	
4.546	962783	896254	0.931	1.68	6 Aroclor 1248
4.588	156605	145487	0.929	0.27	
4.616	89592	78195	0.873	0.15	
4.680	87376	75611	0.865	0.15	
4.735	102841	76868	0.747	0.17	
4.768	351256	333303	0.949	0.61	
4.812	1158259	1084802	0.937	2.02	6 Aroclor 1248
4.847	644554	610958	0.948	1.12	
4.878	2973789	1882310	0.633	5.19	6 Aroclor 1248
4.956	333678	264031	0.791	0.58	
5.037	776608	716689	0.923	1.35	6 Aroclor 1248
5.101	1273546	1115964	0.876	2.22	
5.158	1266469	1067963	0.843	2.21	7 Aroclor 1254
5.211	937684	796298	0.849	1.63	
5.283	230218	222969	0.969	0.40	
5.307	361680	307145	0.849	0.63	
5.362	424752	380529	0.896	0.74	
5.407	1236661	1095131	0.886	2.15	7 Aroclor 1254
5.446	970356	809175	0.834	1.69	
5.480	153962	151562	0.984	0.26	
5.509	2008578	1700645	0.847	3.50	7 Aroclor 1254
5.578	85593	73023	0.853	0.14	
5.604	228182	192392	0.843	0.39	
5.675	899275	836891	0.931	1.57	
5.709	473163	382376	0.808	0.82	
5.742	747655	560729	0.750	1.30	
5.789	3843142	2972541	0.773	7.16	
5.884	387453	288221	0.744	0.67	
5.930	400986	312421	0.779	0.70	
5.992	958992	909973	0.949	1.67	
6.024	1754513	1423593	0.811	3.06	7 Aroclor 1254
6.055	777607	637793	0.820	1.35	
6.168	682442	456616	0.669	1.19	
6.225	272259	280136	1.029	0.47	
6.241	360686	315250	0.874	0.62	
6.300	3764688	3052396	0.811	6.57	7 Aroclor 1254
6.332	336967	307269	0.912	0.58	
6.372	198673	156859	0.790	0.34	
6.431	490618	411190	0.838	0.85	
6.508	1749932	1545364	0.883	3.05	
6.534	678533	603583	0.890	1.18	
6.559	240244	210314	0.875	0.41	
6.604	169777	126835	0.747	0.29	
6.659	86171	76250	0.885	0.15	
6.717	402788	356024	0.884	0.70	
6.757	477300	424244	0.889	0.83	
6.801	563133	503329	0.894	0.98	
6.838	278825	203620	0.730	0.48	
6.911	54642	53777	0.984	0.09	
6.941	217245	195500	0.900	0.37	
7.003	1244964	1099003	0.883	2.17	8 Aroclor 1260
7.034	115672	131316	1.135	0.20	
7.074	18625	19076	1.024	0.03	
7.119	50483	42795	0.848	0.08	
7.250	589528	553727	0.939	1.02	8 Aroclor 1260
7.280	201268	162837	0.809	0.35	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.387	619738	519445	0.838	1.08	
7.441	597895	531115	0.888	1.04	8 Aroclor 1260
7.553	40360	31321	0.776	0.07	
7.688	135299	121680	0.899	0.23	
7.727	159031	133017	0.836	0.27	
7.800	78360	50306	0.642	0.13	
7.899	432464	375440	0.868	0.75	8 Aroclor 1260
7.958	47316	31986	0.676	0.08	
8.048	96515	77893	0.807	0.16	
8.273	387951	341732	0.881	0.67	
8.374	11904	8114	0.682	0.02	
8.452	12563	9001	0.716	0.02	
8.569	3662215	3085102	0.842	6.39	$ 12 Decachlorobiphenyl
8.725	17964	13410	0.746	0.03	
9.050	15361	14912	0.971	0.02	
9.068	13039	12051	0.924	0.02	
9.169	41237	33682	0.817	0.07	
9.464	19235	9997	0.520	0.03	
	57273736	48446656		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018022.D
Lab Smp Id: 40157703013 Client Smp ID: ND5-170615-01-BB-02
Inj Date : 10-APR-2018 18:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703013 x3,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	3842202	0.03116		47		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	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	1067325	0.45554	680	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	962783	0.23198	350	0.00- 20.00	90.21	BA
4.811	4.812	-0.001	1158259	0.57055	860	0.00- 20.00	108.52	BA
4.877	4.879	-0.002	2973788	0.59034	880	0.00- 20.00	278.62	BA
5.036	5.038	-0.002	776608	0.21641	320	0.00- 20.00	72.76	BA
			Average of Peak Concentrations =		620			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1266468	0.24191	360	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1236661	0.28753	430	0.00- 20.00	97.65	BA
5.508	5.510	-0.002	2008577	0.25864	390	0.00- 20.00	158.60	BA
6.023	6.027	-0.004	1754512	0.36029	540	0.00- 20.00	138.54	BA
6.300	6.299	0.001	3764687	0.57855	870	0.00- 20.00	297.26	BA
			Average of Peak Concentrations =		520			
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	1244963	0.12432	190	0.00- 20.00	36.09	CO
7.249	7.251	-0.002	589527	0.12334	180	0.00- 20.00	15.66	CO
7.441	7.443	-0.002	597894	0.20510	310	0.00- 20.00	15.88	CO
7.898	7.901	-0.003	432463	0.16389	240	0.00- 20.00	11.49	CO
			Average of Peak Concentrations =		230			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	3662215	0.03343	50			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018022.D

Date : 10-APR-2018 18:04

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

Instrument: 40GCSJ.i

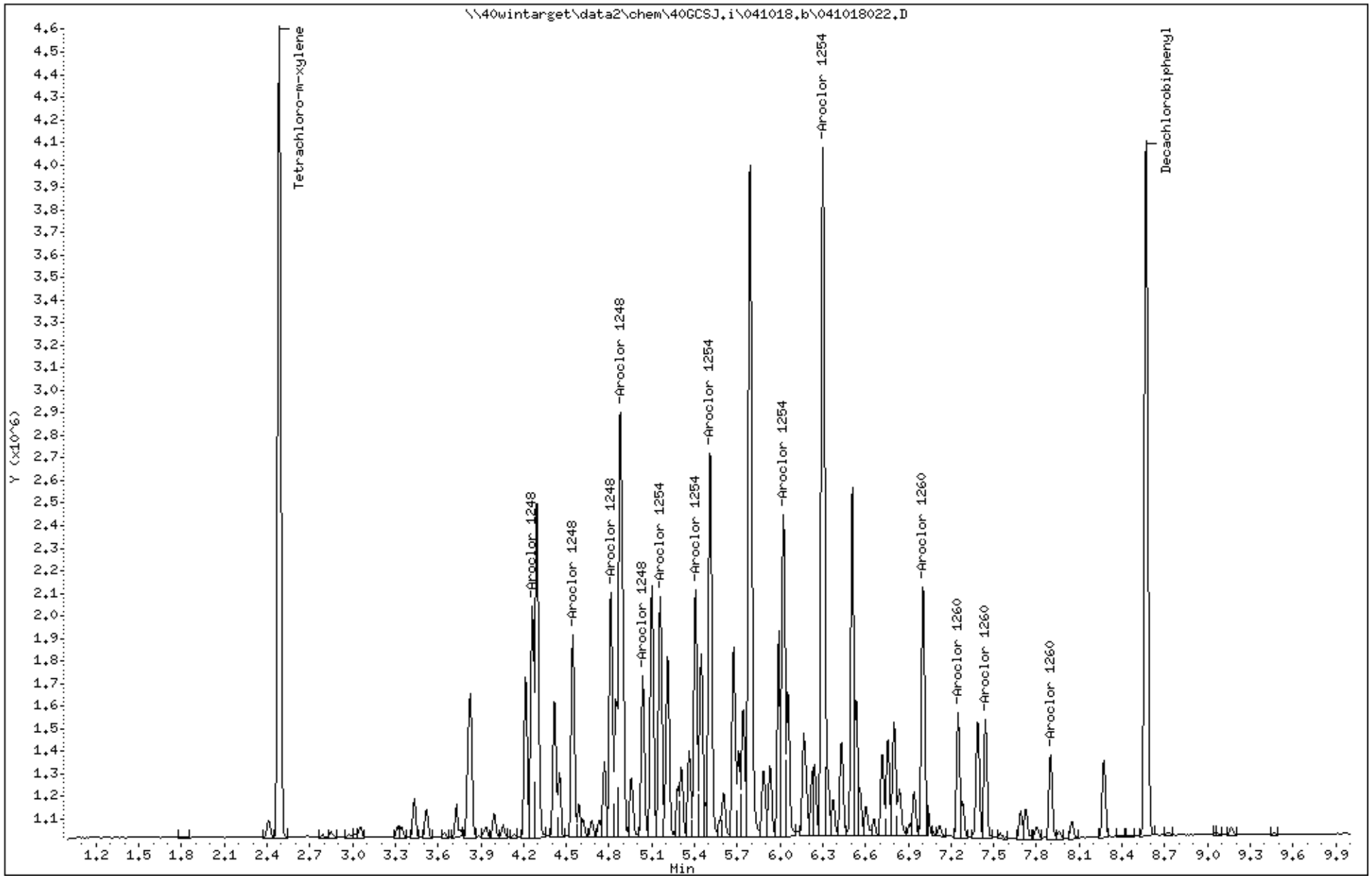
Sample Info: 40157703013 x3,

Volume Injected (uL): 1.0

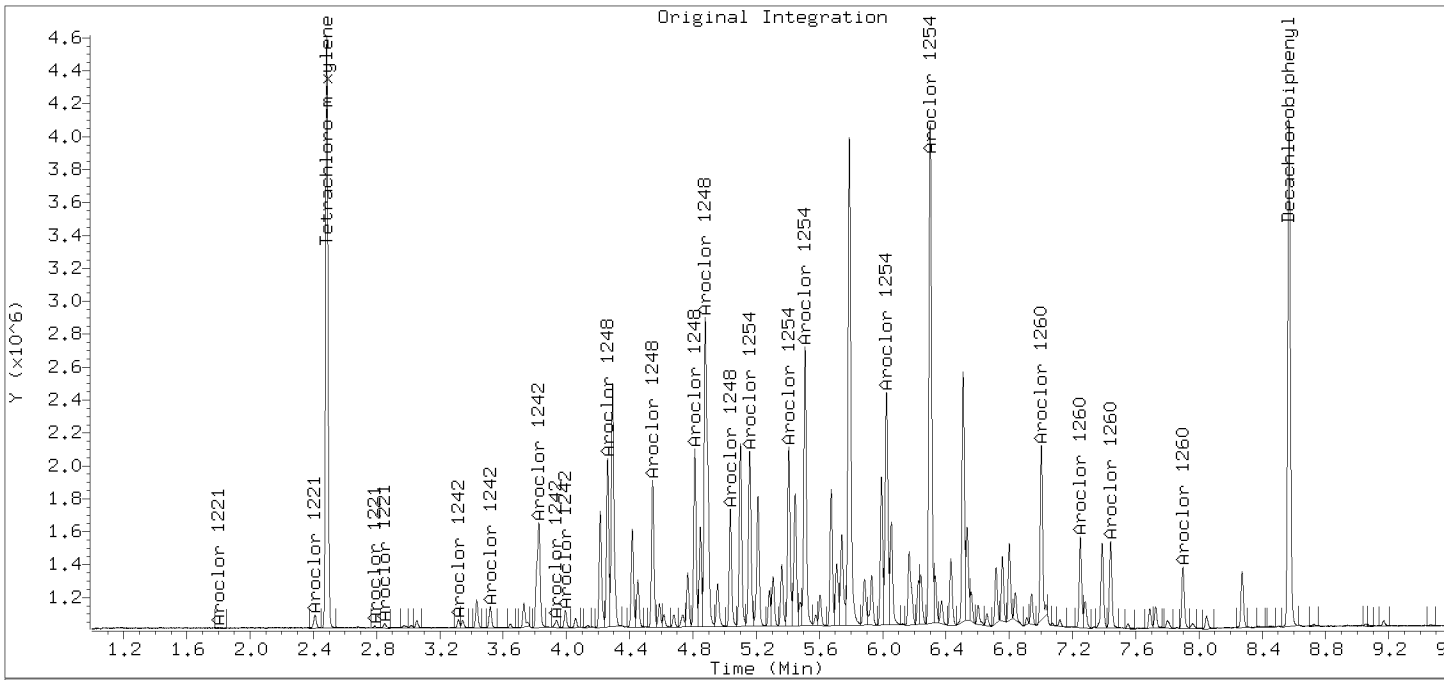
Operator: BLM

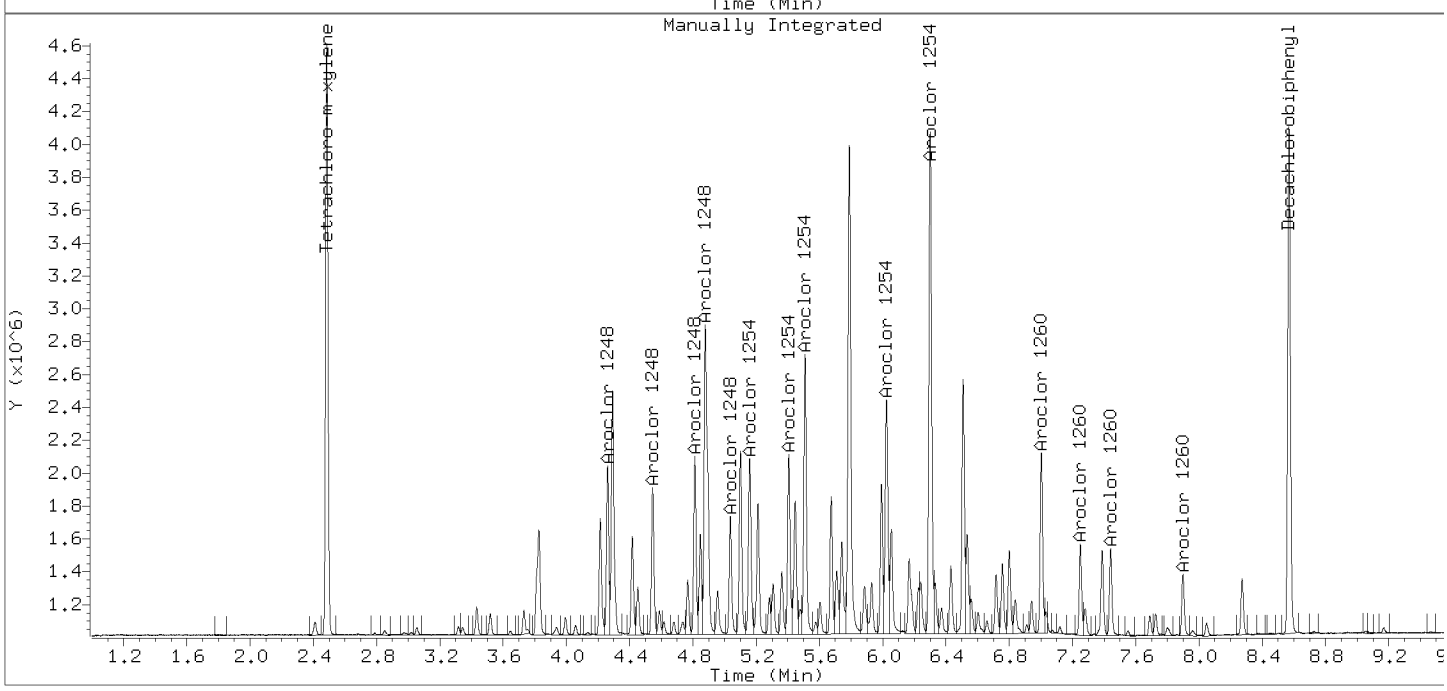
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 18:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	53884	0	
Aroclor 1016	53884	0	
Aroclor 1016	53884	0	
Aroclor 1016	53884	0	
Aroclor 1016	53884	0	
Aroclor 1221	16742	0	
Aroclor 1221	16742	0	
Aroclor 1221	16742	0	
Aroclor 1221	16742	0	
Aroclor 1221	16742	0	
Aroclor 1232	37624	0	
Aroclor 1232	37624	0	
Aroclor 1232	37624	0	
Aroclor 1232	37624	0	

Aroclor 1232	37624	0	
Aroclor 1242	53884	0	
Aroclor 1242	53884	0	
Aroclor 1242	53884	0	
Aroclor 1242	53884	0	
Aroclor 1242	53884	0	
Aroclor 1248	1056755	1067325	BA
Aroclor 1248	1056755	1067325	BA
Aroclor 1248	1056755	1067325	BA
Aroclor 1248	1056755	1067325	BA
Aroclor 1248	1056755	1067325	BA
Aroclor 1254	1247166	1266468	BA
Aroclor 1254	1247166	1266468	BA
Aroclor 1254	1247166	1266468	BA
Aroclor 1254	1247166	1266468	BA
Aroclor 1254	1247166	1266468	BA
Aroclor 1260	3705745	0	CO
Aroclor 1260	3705745	0	CO
Aroclor 1260	3705745	0	CO
Aroclor 1260	3705745	0	CO
Aroclor 1260	3705745	0	CO
Tetrachloro-m-xylene	3842202	3842202	
Decachlorobiphenyl	3662215	3662215	

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SAMPLE NO.

ND5-170615-01-BB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703014
Date Analyzed: 04/10/2018 18:20
Lab File ID: 041018.B\041018023.D
Initial wt/vol: 10.0241 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	327	
11097-69-1	PCB-1254 (Aroclor 1254)	143	
11096-82-5	PCB-1260 (Aroclor 1260)	26.8	J
1336-36-3	PCB, Total	497	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018023.D
Lab Smp Id: 40157703014 Client Smp ID: ND5-170615-01-BB-01
Inj Date : 10-APR-2018 18:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703014 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	10.024	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.026	10800	5639	0.522	0.03		
1.182	14387	9425	0.655	0.04		
2.410	63527	46520	0.732	0.17		
2.485	5099419	4767932	0.935	14.78	$ 2 Tetrachloro-m-xylene	
2.790	23088	18115	0.785	0.06		
2.853	42909	28814	0.672	0.12		
3.020	13137	13686	1.042	0.03		
3.054	37429	33910	0.906	0.10		
3.318	97915	96592	0.986	0.27		
3.344	37679	34545	0.917	0.10		
3.433	131514	120267	0.914	0.37		
3.519	164773	143664	0.872	0.46		
3.645	38988	31329	0.804	0.10		
3.731	365804	303123	0.829	1.03		
3.812	1172899	685832	0.585	3.30		
3.935	102455	59335	0.579	0.28		
3.993	255546	240570	0.941	0.72		
4.059	83378	68996	0.828	0.23		
4.137	22288	17820	0.800	0.06		
4.215	949546	859670	0.905	2.67		
4.261	1189254	1119353	0.941	3.35	6 Aroclor 1248	BA
4.292	1512564	1248272	0.825	4.26		
4.417	620538	581740	0.937	1.74		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	398669	343998	0.863	1.12	
4.545	1188575	1082530	0.911	3.34	6 Aroclor 1248
4.590	103187	92554	0.897	0.29	
4.617	130912	104516	0.798	0.36	
4.679	75276	64178	0.853	0.21	
4.735	86115	65543	0.761	0.24	
4.767	204450	180125	0.881	0.57	
4.812	781606	729730	0.934	2.20	6 Aroclor 1248
4.847	486306	474356	0.975	1.37	
4.879	1586068	945546	0.596	4.46	6 Aroclor 1248
4.956	257980	209893	0.814	0.72	
5.037	515711	453114	0.879	1.45	6 Aroclor 1248
5.100	635633	536135	0.843	1.79	
5.161	710120	618871	0.872	2.00	7 Aroclor 1254
5.212	704141	618388	0.878	1.98	
5.283	100131	99221	0.991	0.28	
5.306	178247	147479	0.827	0.50	
5.361	303533	261230	0.861	0.85	
5.406	538051	473907	0.881	1.51	7 Aroclor 1254
5.445	481148	394111	0.819	1.35	
5.478	81170	79125	0.975	0.22	
5.509	1288696	1120971	0.870	3.63	7 Aroclor 1254
5.577	53034	42802	0.807	0.14	
5.604	158496	133391	0.842	0.44	
5.675	279071	253553	0.909	0.78	
5.709	166297	133412	0.802	0.46	
5.742	226400	173176	0.765	0.63	
5.790	1350375	1025689	0.760	3.80	
5.884	134594	95486	0.709	0.37	
5.931	113739	76224	0.670	0.32	
5.993	231499	211725	0.915	0.65	
6.024	600241	512805	0.854	1.69	7 Aroclor 1254
6.055	563871	466876	0.828	1.58	
6.167	166396	97800	0.588	0.46	
6.229	59038	65942	1.117	0.16	
6.240	109704	90376	0.824	0.30	
6.300	1091201	902298	0.827	3.07	7 Aroclor 1254
6.333	115438	96238	0.834	0.32	
6.371	57186	41243	0.721	0.16	
6.432	111549	85035	0.762	0.31	
6.509	312786	278597	0.891	0.88	
6.535	275951	194692	0.706	0.77	
6.605	32383	24711	0.763	0.09	
6.658	24548	18465	0.752	0.06	
6.716	103683	85172	0.821	0.29	
6.758	110162	94429	0.857	0.31	
6.802	135803	115811	0.853	0.38	
6.838	65382	45364	0.694	0.18	
6.941	66160	57164	0.864	0.18	
7.005	211491	187320	0.886	0.59	8 Aroclor 1260
7.032	23173	26868	1.159	0.06	
7.076	11300	7018	0.621	0.03	
7.121	30101	18502	0.615	0.08	
7.251	132321	111255	0.841	0.37	8 Aroclor 1260
7.280	53991	41294	0.765	0.15	
7.330	11260	8614	0.765	0.03	
7.390	89785	81418	0.907	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.441	97605	78481	0.804	0.27	8 Aroclor 1260
7.690	23962	24193	1.010	0.06	
7.727	42863	35452	0.827	0.12	
7.800	33682	21259	0.631	0.09	
7.899	66407	51152	0.770	0.18	8 Aroclor 1260
8.051	31494	23323	0.741	0.08	
8.274	83892	73097	0.871	0.23	
8.569	4926107	4259475	0.865	13.88	$ 12 Decachlorobiphenyl
9.166	16374	10496	0.641	0.04	
	35486358	30108363		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018023.D
Lab Smp Id: 40157703014 Client Smp ID: ND5-170615-01-BB-01
Inj Date : 10-APR-2018 18:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703014 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	10.024	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	5099418	0.04136		41		

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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	1189254	0.50758	510	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1188574	0.28638	280	0.00- 20.00	99.94	BA
4.812	4.812	0.000	781606	0.38501	380	0.00- 20.00	65.72	BA
4.879	4.879	0.000	1586068	0.31486	310	0.00- 20.00	133.37	BA
5.036	5.038	-0.002	515711	0.14371	140	0.00- 20.00	43.36	BA
Average of Peak Concentrations =					330			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	710120	0.13564	140	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	538051	0.12510	120	0.00- 20.00	75.77	BA
5.509	5.510	-0.001	1288695	0.16594	160	0.00- 20.00	181.48	BA
6.024	6.027	-0.003	600240	0.12326	120	0.00- 20.00	84.53	BA
6.299	6.299	0.000	1091201	0.16769	170	0.00- 20.00	153.66	BA
Average of Peak Concentrations =					140			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	211490	0.02112	21	0.00- 20.00	21.48	CO
7.250	7.251	-0.001	132321	0.02768	28	0.00- 20.00	12.13	CO
7.440	7.443	-0.003	97605	0.03348	33	0.00- 20.00	8.94	CO
7.898	7.901	-0.003	66406	0.02517	25	0.00- 20.00	6.09	CO
Average of Peak Concentrations =					27			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	4926106	0.04496	45			

QC Flag Legend

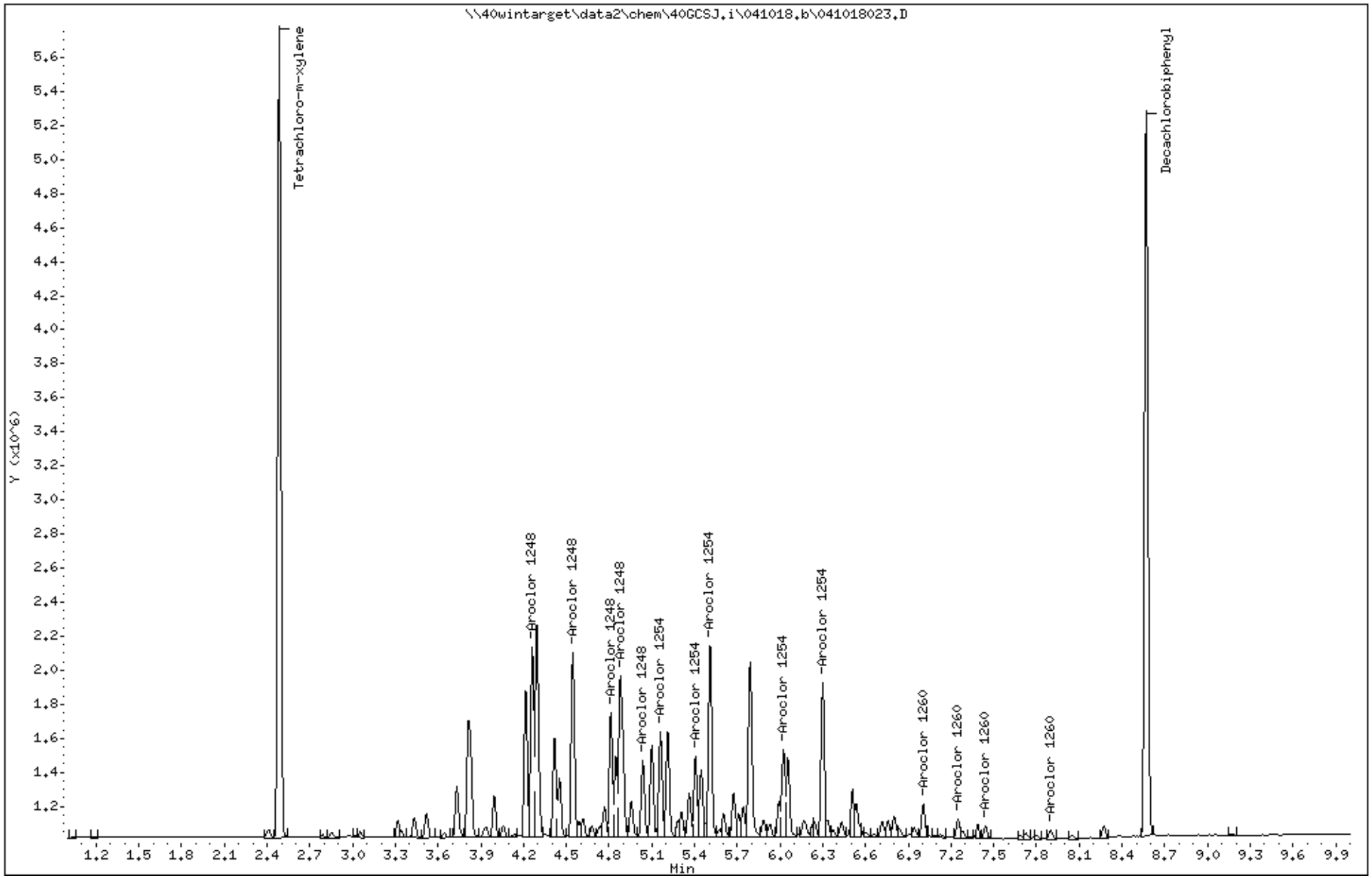
M - Compound response manually integrated.

Review Codes Legend

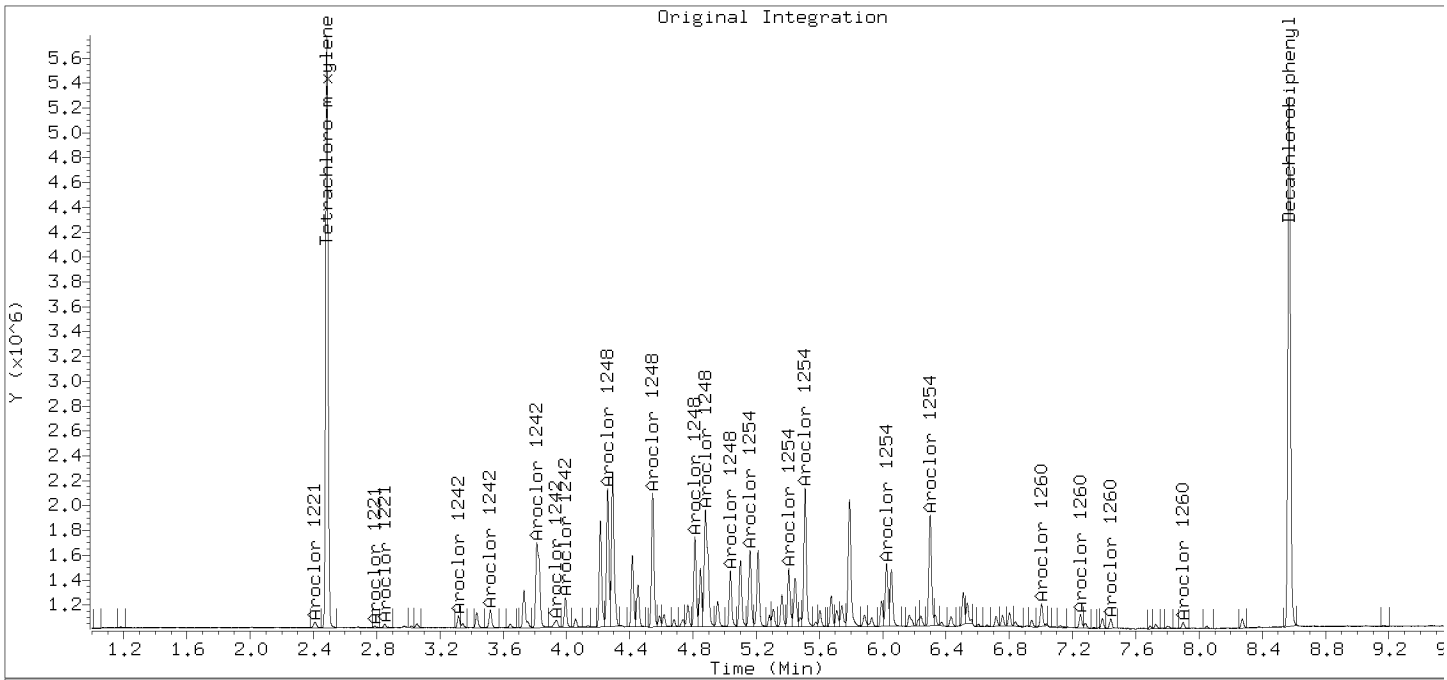
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

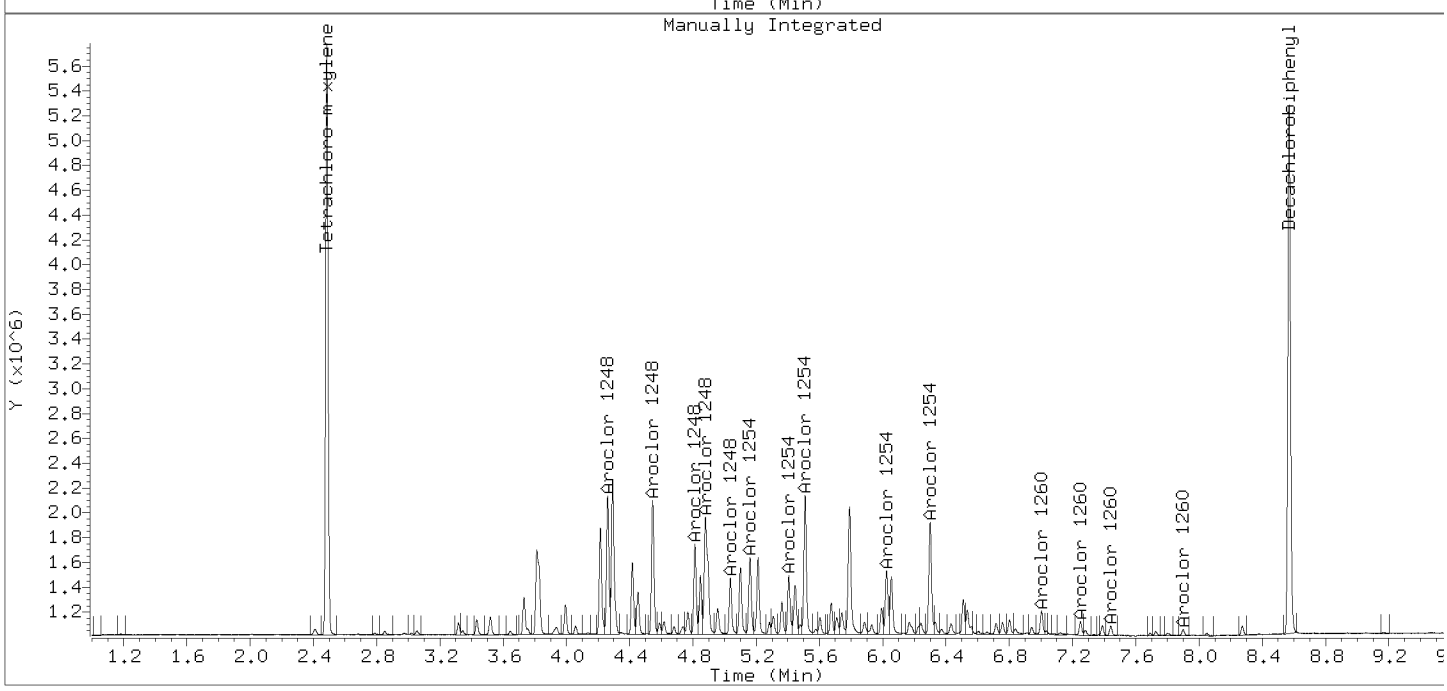
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018023.D
Date : 10-APR-2018 18:20
Client ID: ND5-170615-01-BB-01
Sample Info: 40157703014 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 18:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	97914	0	
Aroclor 1016	97914	0	
Aroclor 1016	97914	0	
Aroclor 1016	97914	0	
Aroclor 1016	97914	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	42908	0	
Aroclor 1232	42908	0	
Aroclor 1232	42908	0	
Aroclor 1232	42908	0	

Aroclor 1232	42908	0	
Aroclor 1242	97914	0	
Aroclor 1242	97914	0	
Aroclor 1242	97914	0	
Aroclor 1242	97914	0	
Aroclor 1242	97914	0	
Aroclor 1248	1173161	1189254	BA
Aroclor 1248	1173161	1189254	BA
Aroclor 1248	1173161	1189254	BA
Aroclor 1248	1173161	1189254	BA
Aroclor 1248	1173161	1189254	BA
Aroclor 1254	693999	710120	BA
Aroclor 1254	693999	710120	BA
Aroclor 1254	693999	710120	BA
Aroclor 1254	693999	710120	BA
Aroclor 1254	693999	710120	BA
Aroclor 1260	1052283	0	CO
Aroclor 1260	1052283	0	CO
Aroclor 1260	1052283	0	CO
Aroclor 1260	1052283	0	CO
Aroclor 1260	1052283	0	CO
Tetrachloro-m-xylene	5099418	5099418	
Decachlorobiphenyl	4926106	4926106	

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SAMPLE NO.

ND3-170615-01-BB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703015
Date Analyzed: 04/10/2018 18:36
Lab File ID: 041018.B\041018024.D
Initial wt/vol: 9.9707 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)	806	
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)	2340	
11097-69-1	PCB-1254 (Aroclor 1254)	1080	
11096-82-5	PCB-1260 (Aroclor 1260)	276	J
1336-36-3	PCB, Total	4510	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018024.D
Lab Smp Id: 40157703015 Client Smp ID: ND3-170615-01-BB-05
Inj Date : 10-APR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703015 x15,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.808	18614	13224	0.710	0.06		1 Aroclor 1221	BA
2.409	177331	130177	0.734	0.62		1 Aroclor 1221	BA
2.485	714951	667491	0.934	2.50	$	2 Tetrachloro-m-xylene	BA
2.685	67744	57484	0.849	0.23		1 Aroclor 1221	BA
2.790	97368	83262	0.855	0.34		1 Aroclor 1221	BA
2.851	187145	165562	0.885	0.65		1 Aroclor 1221	BA
3.016	12334	10536	0.854	0.04			
3.054	85036	74831	0.880	0.29			
3.317	142282	129433	0.910	0.49			
3.343	95101	91174	0.959	0.33			
3.433	255668	236643	0.926	0.89			
3.520	326162	295195	0.905	1.14			
3.644	53110	44319	0.834	0.18			
3.731	431026	360554	0.837	1.51			
3.813	1229577	712781	0.580	4.31			
3.937	115931	81643	0.704	0.40			
3.994	183979	171444	0.932	0.64			
4.058	78939	62799	0.796	0.27			
4.136	23854	15981	0.670	0.08			
4.214	905395	785130	0.867	3.17			
4.260	1161001	1089001	0.938	4.07		6 Aroclor 1248	BA
4.292	2028383	1684615	0.831	7.62			
4.417	409699	379715	0.927	1.43			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	316853	276154	0.872	1.11	
4.545	1109972	1020727	0.920	3.89	6 Aroclor 1248
4.588	158539	140702	0.887	0.55	
4.617	90410	80482	0.890	0.31	
4.680	109751	94110	0.857	0.38	
4.736	114902	97642	0.850	0.40	
4.768	321873	295112	0.917	1.12	
4.812	673984	632779	0.939	2.36	6 Aroclor 1248
4.847	284978	267191	0.938	1.00	
4.879	1492493	787274	0.527	5.23	6 Aroclor 1248
4.955	289196	243632	0.842	1.01	
5.037	600852	529431	0.881	2.10	6 Aroclor 1248
5.099	771601	666901	0.864	2.70	
5.159	646406	545528	0.844	2.26	7 Aroclor 1254
5.211	651158	539339	0.828	2.28	
5.283	117513	115191	0.980	0.41	
5.306	239102	196933	0.824	0.83	
5.362	247723	219570	0.886	0.86	
5.406	602758	534229	0.886	2.11	7 Aroclor 1254
5.445	383093	318724	0.832	1.34	
5.478	111957	96928	0.866	0.39	
5.509	1164891	989375	0.849	4.08	7 Aroclor 1254
5.578	60477	52017	0.860	0.21	
5.604	152058	127194	0.836	0.53	
5.674	385840	357960	0.928	1.35	
5.708	204590	168224	0.822	0.71	
5.743	249106	193592	0.777	0.87	
5.790	1245516	919830	0.739	4.37	
5.884	168484	120083	0.713	0.59	
5.931	145777	112145	0.769	0.51	
5.993	286145	255599	0.893	1.00	
6.025	590601	507371	0.859	2.07	7 Aroclor 1254
6.056	545454	442379	0.811	1.91	
6.169	198516	112896	0.569	0.69	
6.226	63865	74825	1.172	0.22	
6.241	127249	94665	0.744	0.44	
6.300	1192110	965710	0.810	4.18	7 Aroclor 1254
6.330	114015	103280	0.906	0.40	
6.372	63617	45114	0.709	0.22	
6.432	158658	134013	0.845	0.55	
6.509	363288	329436	0.907	1.27	
6.535	215974	187046	0.866	0.75	
6.559	80408	73556	0.915	0.28	
6.604	42396	30262	0.714	0.14	
6.663	27123	19685	0.726	0.09	
6.717	112544	98154	0.872	0.39	
6.758	140953	129172	0.916	0.49	
6.802	146728	125113	0.853	0.51	
6.840	76159	54378	0.714	0.26	
6.908	19477	16860	0.866	0.06	
6.941	60965	50936	0.835	0.21	
7.004	289812	255540	0.882	1.01	8 Aroclor 1260
7.033	36936	34871	0.944	0.12	
7.119	23127	13324	0.576	0.08	
7.251	158970	139765	0.879	0.55	8 Aroclor 1260
7.281	55999	44502	0.795	0.19	
7.387	132699	111050	0.837	0.46	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.440	129288	113149	0.875	0.45	8 Aroclor 1260
7.553	14369	10594	0.737	0.05	
7.690	35872	32216	0.898	0.12	
7.726	37196	27639	0.743	0.13	
7.802	20356	15013	0.738	0.07	
7.900	106640	85069	0.798	0.37	8 Aroclor 1260
7.960	21503	11070	0.515	0.07	
8.052	22716	14120	0.622	0.07	
8.272	89585	70080	0.782	0.31	
8.570	738175	647699	0.877	2.59	$ 12 Decachlorobiphenyl
9.168	13695	11060	0.808	0.04	
9.465	11046	7420	0.672	0.03	
9.959	12220	8511	0.696	0.04	
	28488936	23585135		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018024.D
Lab Smp Id: 40157703015 Client Smp ID: ND3-170615-01-BB-05
Inj Date : 10-APR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703015 x15,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.807	1.804	0.003	18614	0.01788	130	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	177331	0.32369	2400	0.00- 20.00	952.68	BA
2.684	2.688	-0.004	67744	0.04897	370	0.00- 20.00	363.94	BA
2.789	2.789	0.000	97368	0.08805	660	0.00- 20.00	523.09	BA
2.850	2.851	-0.001	187145	0.05749	430	0.00- 20.00	1005.40	BA
Average of Peak Concentrations =					810			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	714951	0.00580	44		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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

    4 Aroclor 1232                                CAS #: 1114-16-5

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

Operator disabled compound identification.
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.260    4.261   -0.001         1161001 0.49552     3700   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1109972 0.26744     2000   0.00-  20.00    95.60         BA
4.812    4.812    0.000          673984 0.33200     2500   0.00-  20.00    58.05         BA
4.879    4.879    0.000         1492492 0.29628     2200   0.00-  20.00   128.55         BA
5.036    5.038   -0.002          600851 0.16744     1200   0.00-  20.00    51.75         BA
               Average of Peak Concentrations =     2300
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.159    5.162   -0.003          646406 0.12347      930   0.00-  20.00   100.00(M)      BA
5.406    5.408   -0.002          602757 0.14014     1000   0.00-  20.00    93.25         BA
5.509    5.510   -0.001         1164890 0.15000     1100   0.00-  20.00   180.21         BA
6.025    6.027   -0.002          590601 0.12128      910   0.00-  20.00    91.37         BA
6.300    6.299    0.001         1192110 0.18320     1400   0.00-  20.00   184.42         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          289811 0.02894      220   0.00-  20.00    24.31         BA
7.250    7.251   -0.001          158969 0.03326      250   0.00-  20.00    13.34         BA
7.440    7.443   -0.003          129288 0.04435      330   0.00-  20.00    10.85         BA
7.900    7.901   -0.001          106639 0.04041      300   0.00-  20.00     8.95         BA
               Average of Peak Concentrations =      280
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.570    8.571   -0.001          738175 0.00674       51
-------------------------------------------------------------------------------
```

QC Flag Legend

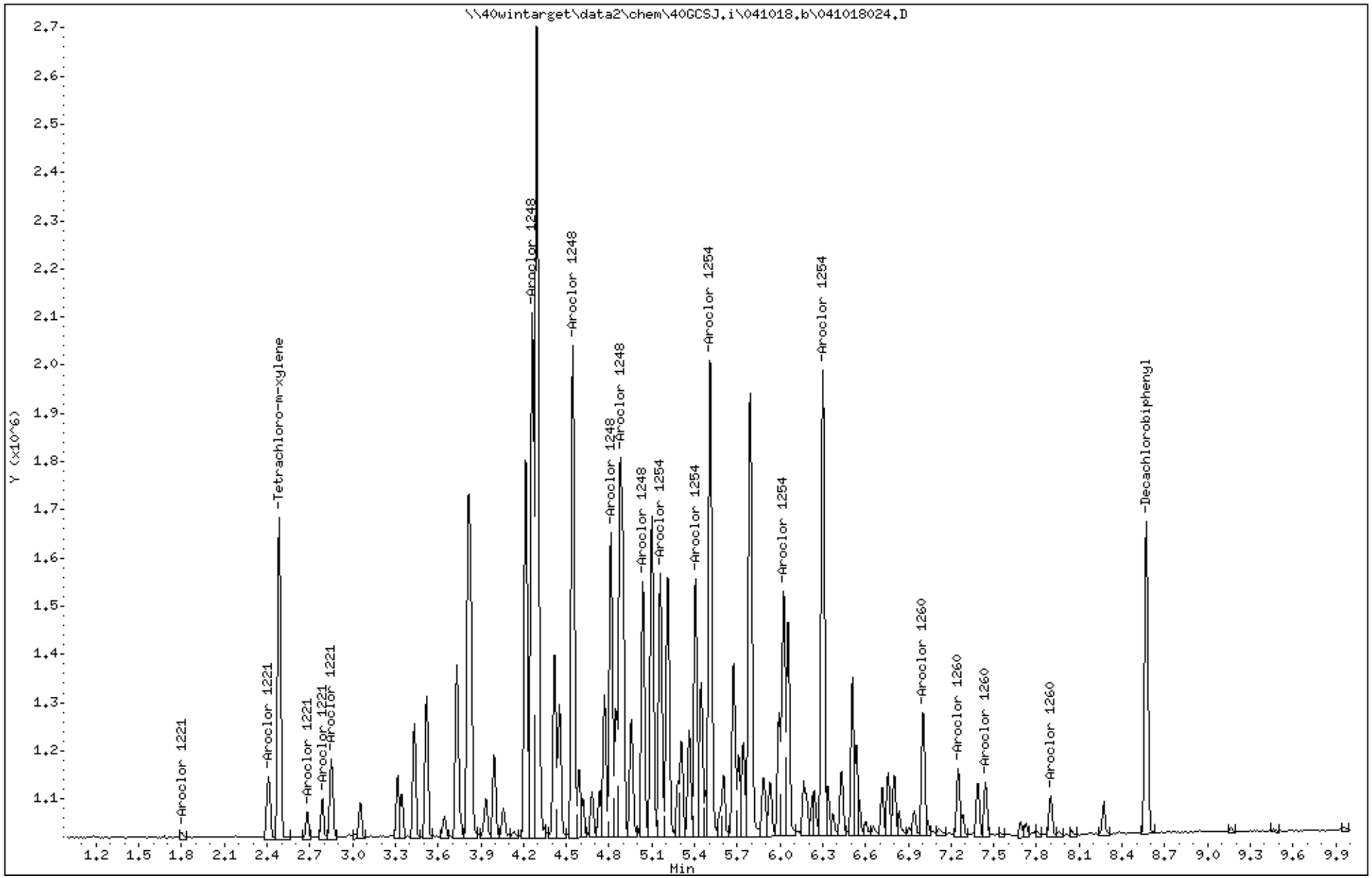
M - Compound response manually integrated.

Review Codes Legend

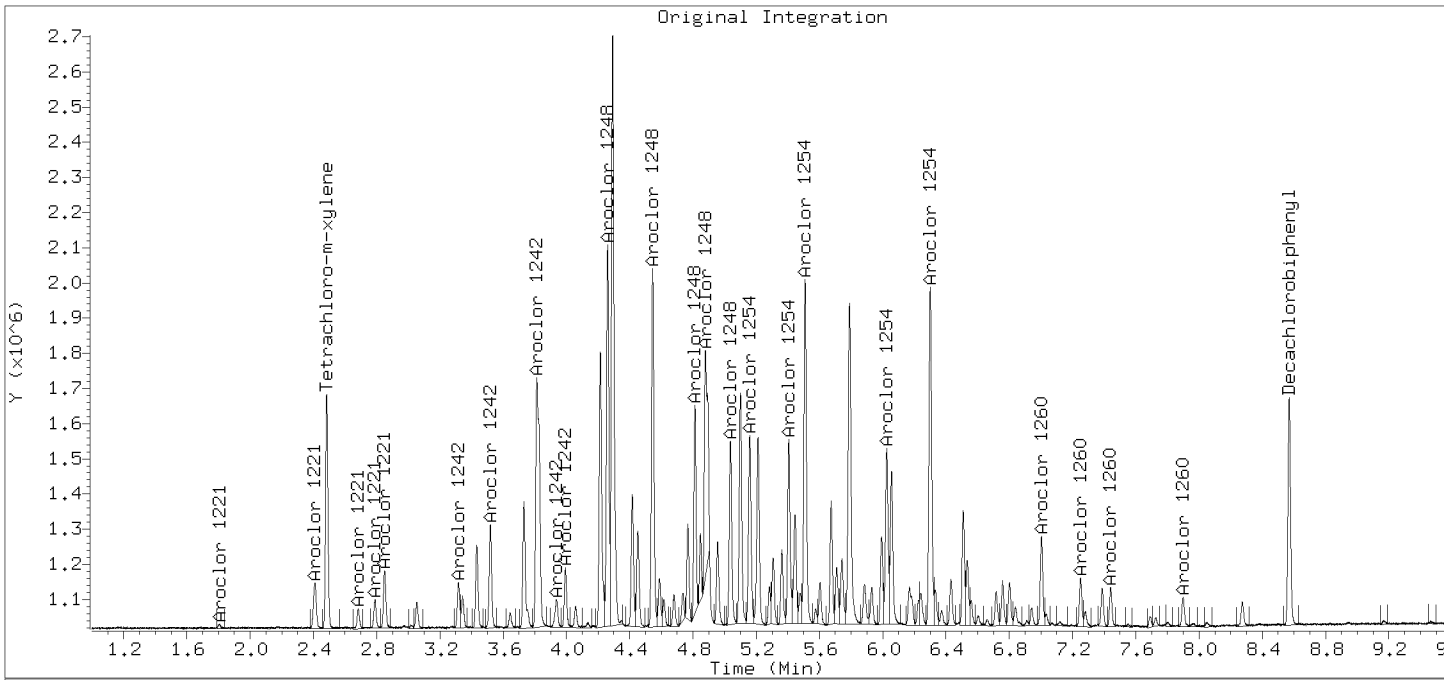
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

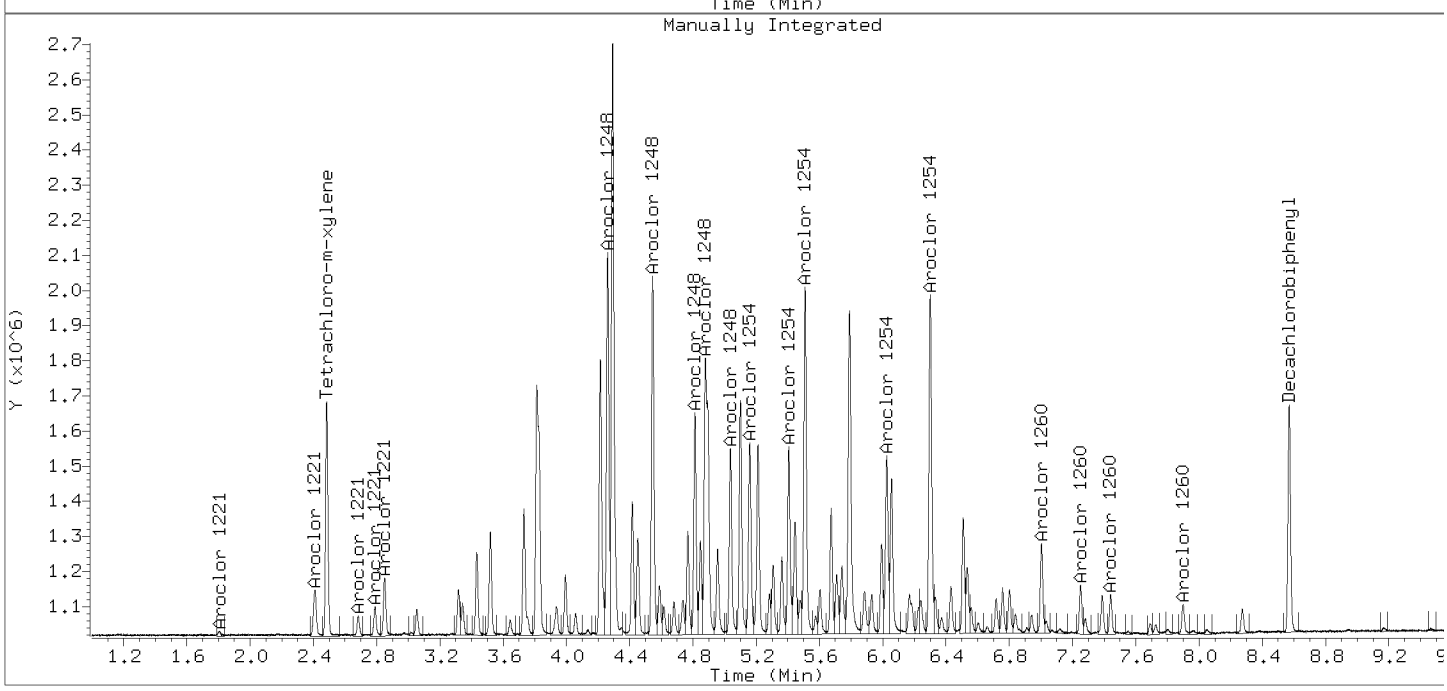
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018024.D
Date : 10-APR-2018 18:36
Client ID: ND3-170615-01-BB-05
Sample Info: 40157703015 x15,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 18:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	138957	0	
Aroclor 1016	138957	0	
Aroclor 1016	138957	0	
Aroclor 1016	138957	0	
Aroclor 1016	138957	0	
Aroclor 1221	16805	18614	BA
Aroclor 1221	16805	18614	BA
Aroclor 1221	16805	18614	BA
Aroclor 1221	16805	18614	BA
Aroclor 1221	16805	18614	BA
Aroclor 1232	179629	0	
Aroclor 1232	179629	0	
Aroclor 1232	179629	0	
Aroclor 1232	179629	0	

Aroclor 1232	179629	0	
Aroclor 1242	138957	0	
Aroclor 1242	138957	0	
Aroclor 1242	138957	0	
Aroclor 1242	138957	0	
Aroclor 1242	138957	0	
Aroclor 1248	1148052	1161001	BA
Aroclor 1248	1148052	1161001	BA
Aroclor 1248	1148052	1161001	BA
Aroclor 1248	1148052	1161001	BA
Aroclor 1248	1148052	1161001	BA
Aroclor 1254	613611	646406	BA
Aroclor 1254	613611	646406	BA
Aroclor 1254	613611	646406	BA
Aroclor 1254	613611	646406	BA
Aroclor 1254	613611	646406	BA
Aroclor 1260	1180591	0	BA
Aroclor 1260	1180591	0	BA
Aroclor 1260	1180591	0	BA
Aroclor 1260	1180591	0	BA
Aroclor 1260	1180591	0	BA
Tetrachloro-m-xylene	709059	714951	BA
Decachlorobiphenyl	738175	738175	

==========

SAMPLE NO.

ND3-170615-01-BB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703016
Date Analyzed: 04/10/2018 18:52
Lab File ID: 041018.B\041018025.D
Initial wt/vol: 10.0176 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	152	J
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	972	
11097-69-1	PCB-1254 (Aroclor 1254)	435	
11096-82-5	PCB-1260 (Aroclor 1260)	97.8	J
1336-36-3	PCB, Total	1660	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018025.D
Lab Smp Id: 40157703016 Client Smp ID: ND3-170615-01-BB-04
Inj Date : 10-APR-2018 18:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703016 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.949	12814	8216	0.641	0.03			
2.411	101737	75969	0.747	0.27		1 Aroclor 1221	BA
2.484	2270951	2059394	0.907	6.67	$	2 Tetrachloro-m-xylene	BA
2.680	17693	13610	0.769	0.04		1 Aroclor 1221	BA
2.788	25693	21376	0.832	0.07		1 Aroclor 1221	BA
2.850	70883	59336	0.837	0.19		1 Aroclor 1221	BA
2.972	41111	21498	0.523	0.11			
3.017	32132	30090	0.936	0.08			
3.054	73004	61201	0.838	0.20			
3.317	125700	117479	0.935	0.34			
3.344	79442	71168	0.896	0.21			
3.433	339817	310129	0.913	0.93			
3.519	334041	308919	0.925	0.91			
3.646	63971	54813	0.857	0.17			
3.731	409578	330118	0.806	1.12			
3.813	701324	795718	1.135	1.92			
3.825	845427	822836	0.973	2.31			
3.936	200322	137256	0.685	0.54			
3.993	259957	240782	0.926	0.71			
4.059	115111	103272	0.897	0.31			
4.136	26013	21648	0.832	0.07			
4.214	1191936	1055639	0.886	3.26			
4.260	1416229	1342735	0.948	3.88		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	2089728	1691005	0.809	5.73	
4.349	33706	27078	0.803	0.09	
4.417	615216	593690	0.965	1.68	
4.451	468240	420741	0.899	1.28	
4.545	1350426	1224563	0.907	3.70	6 Aroclor 1248
4.589	163120	144943	0.889	0.44	
4.617	135352	119554	0.883	0.37	
4.680	127738	108386	0.849	0.35	
4.735	144618	107788	0.745	0.39	
4.767	304675	284889	0.935	0.83	
4.812	837350	791571	0.945	2.29	6 Aroclor 1248
4.846	501034	458398	0.915	1.37	
4.879	1882728	1060747	0.563	5.16	6 Aroclor 1248
4.957	351954	287122	0.816	0.96	
5.037	833274	746133	0.895	2.28	6 Aroclor 1248
5.100	857276	752082	0.877	2.35	
5.160	828285	691605	0.835	2.27	7 Aroclor 1254
5.211	744043	629669	0.846	2.04	
5.283	120717	119349	0.989	0.33	
5.308	273908	222191	0.811	0.75	
5.362	309363	265114	0.857	0.84	
5.405	742773	643030	0.866	2.03	7 Aroclor 1254
5.446	483761	411671	0.851	1.32	
5.478	132404	117286	0.886	0.36	
5.509	1383484	1196629	0.865	3.79	7 Aroclor 1254
5.576	66916	58285	0.871	0.18	
5.604	202375	169474	0.837	0.55	
5.675	431879	396692	0.919	1.18	
5.709	252007	205918	0.817	0.69	
5.742	295658	220490	0.746	0.81	
5.790	1468634	1094240	0.745	4.02	
5.884	203847	147150	0.722	0.55	
5.931	161516	127812	0.791	0.44	
5.993	313478	281732	0.899	0.85	
6.025	754803	644562	0.854	2.07	7 Aroclor 1254
6.056	640501	507106	0.792	1.75	
6.168	253916	146451	0.577	0.69	
6.227	67524	88632	1.313	0.18	
6.241	158645	112610	0.710	0.43	
6.301	1350374	1096323	0.812	3.70	7 Aroclor 1254
6.333	137237	126258	0.920	0.37	
6.372	72078	57140	0.793	0.19	
6.432	190320	151034	0.794	0.52	
6.509	403241	362432	0.899	1.10	
6.535	314387	207830	0.661	0.86	
6.605	46268	34282	0.741	0.12	
6.660	30512	26772	0.877	0.08	
6.717	139731	124060	0.888	0.38	
6.758	174211	153756	0.883	0.47	
6.802	174588	152248	0.872	0.47	
6.837	92169	63264	0.686	0.25	
6.913	19764	17518	0.886	0.05	
6.942	93038	83902	0.902	0.25	
7.003	307575	278463	0.905	0.84	8 Aroclor 1260
7.033	33400	35664	1.068	0.09	
7.120	27106	16918	0.624	0.07	
7.250	168402	153362	0.911	0.46	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	74531	53065	0.712	0.20	
7.389	131030	119354	0.911	0.35	
7.442	155383	121315	0.781	0.42	8 Aroclor 1260
7.690	40060	35951	0.897	0.10	
7.723	42732	33534	0.785	0.11	
7.807	34442	21815	0.633	0.09	
7.898	98803	80206	0.812	0.27	8 Aroclor 1260
7.958	19584	11799	0.602	0.05	
8.051	50150	34689	0.692	0.13	
8.273	82854	75257	0.908	0.22	
8.376	9352	7148	0.764	0.02	
8.569	2186713	1825840	0.835	5.99	$ 12 Decachlorobiphenyl
9.168	20748	15307	0.738	0.05	
	36462544	30956096		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018025.D
Lab Smp Id: 40157703016 Client Smp ID: ND3-170615-01-BB-04
Inj Date : 10-APR-2018 18:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703016 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	101736	0.18570	460	0.00- 20.00	0.00	BA
2.680	2.688	-0.008	17693	0.01279	32	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	25692	0.02323	58	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	70882	0.02177	54	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					150			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2270951	0.01842	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1416229	0.60446	1500	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1350425	0.32538	810	0.00- 20.00	95.35	BA
4.812	4.812	0.000	837350	0.41247	1000	0.00- 20.00	59.13	BA
4.878	4.879	-0.001	1882728	0.37375	930	0.00- 20.00	132.94	BA
5.036	5.038	-0.002	833273	0.23220	580	0.00- 20.00	58.84	BA
Average of Peak Concentrations =					970			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	828285	0.15821	390	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	742773	0.17270	430	0.00- 20.00	89.68	BA
5.509	5.510	-0.001	1383483	0.17814	440	0.00- 20.00	167.03	BA
6.025	6.027	-0.002	754802	0.15500	390	0.00- 20.00	91.13	BA
6.301	6.299	0.002	1350374	0.20752	520	0.00- 20.00	163.03	BA
Average of Peak Concentrations =					440			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.002	7.006	-0.004	307574	0.03071	77	0.00- 20.00	25.21	CO
7.250	7.251	-0.001	168402	0.03523	88	0.00- 20.00	12.47	CO
7.441	7.443	-0.002	155382	0.05330	130	0.00- 20.00	11.51	CO
7.898	7.901	-0.003	98803	0.03744	93	0.00- 20.00	7.32	CO
Average of Peak Concentrations =					98			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	2186712	0.01996	50			

QC Flag Legend

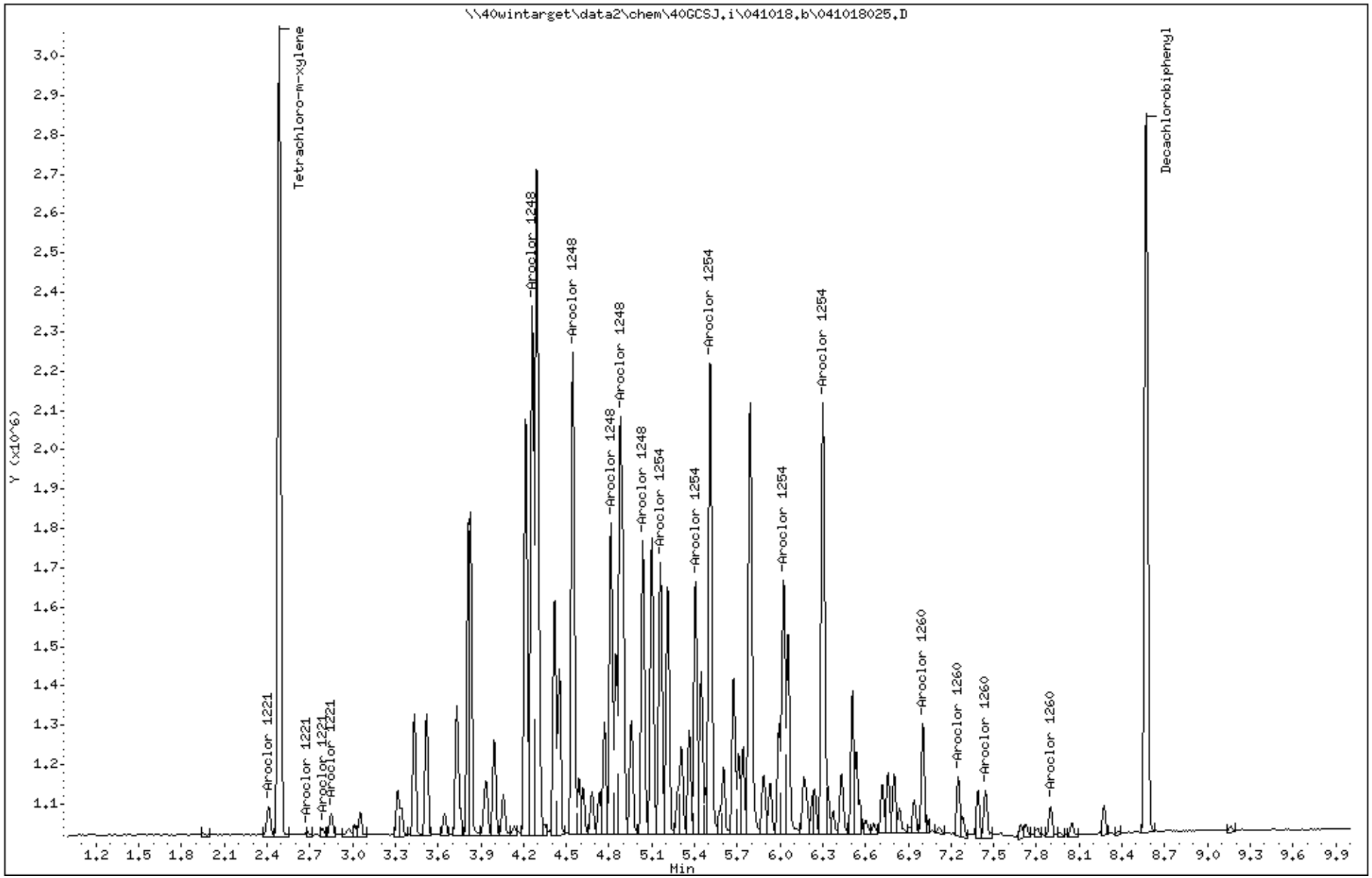
M - Compound response manually integrated.

Review Codes Legend

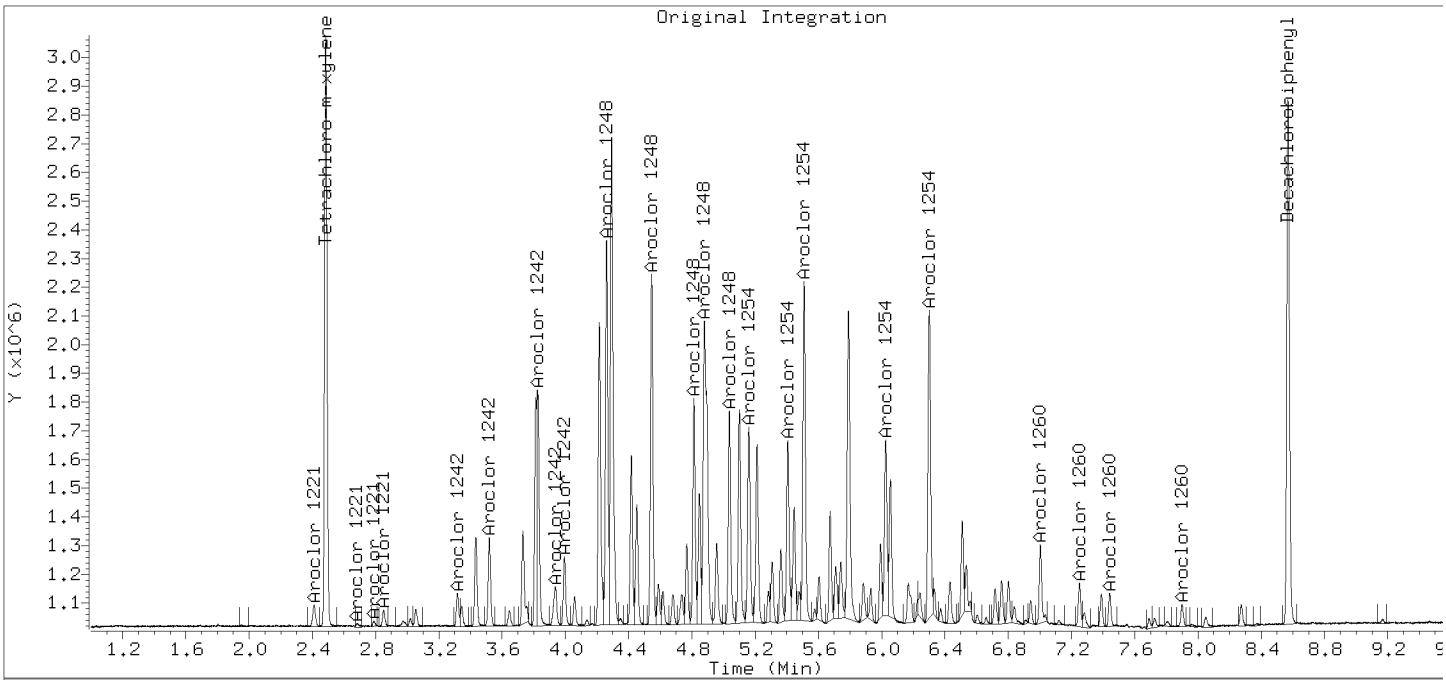
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

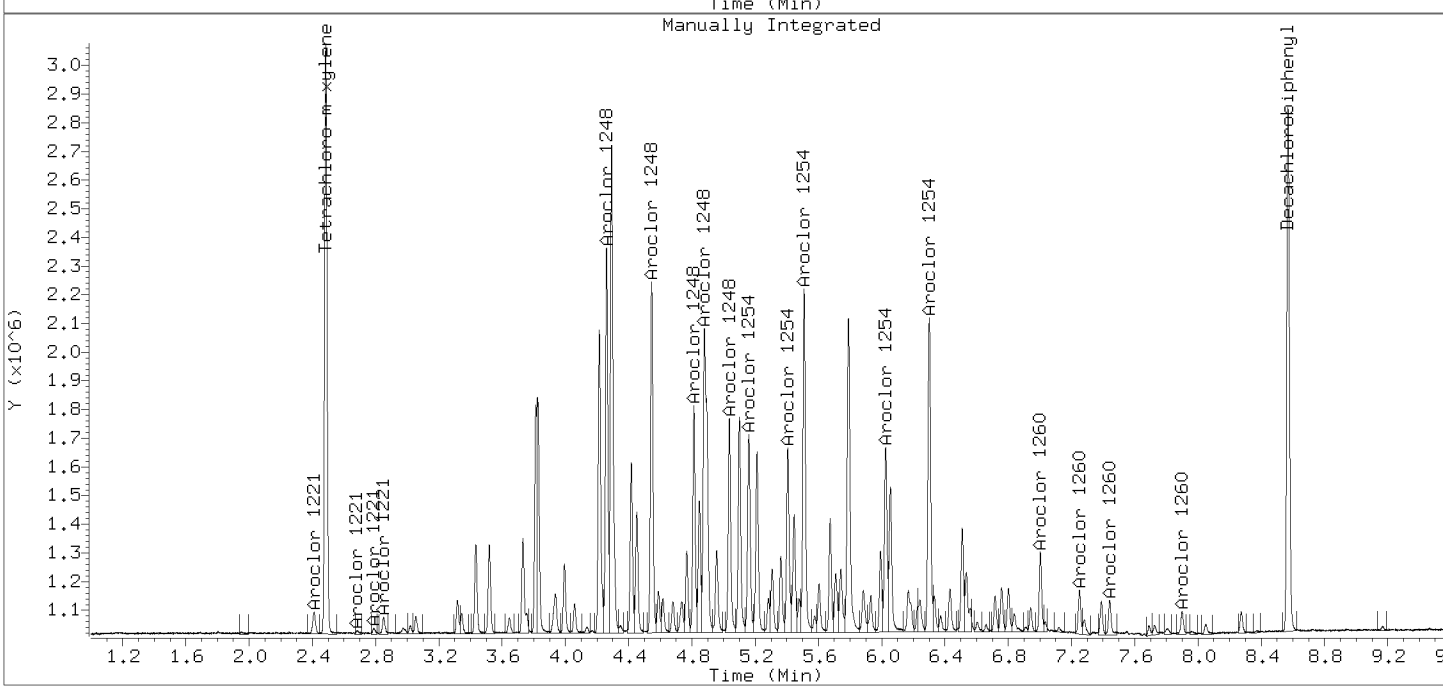
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018025.D
Date : 10-APR-2018 18:52
Client ID: ND3-170615-01-BB-04
Sample Info: 40157703016 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 18:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	123275	0	
Aroclor 1016	123275	0	
Aroclor 1016	123275	0	
Aroclor 1016	123275	0	
Aroclor 1016	123275	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	63666	0	
Aroclor 1232	63666	0	
Aroclor 1232	63666	0	
Aroclor 1232	63666	0	

Aroclor 1232	63666	0	
Aroclor 1242	123275	0	
Aroclor 1242	123275	0	
Aroclor 1242	123275	0	
Aroclor 1242	123275	0	
Aroclor 1242	123275	0	
Aroclor 1248	1405226	1416229	BA
Aroclor 1248	1405226	1416229	BA
Aroclor 1248	1405226	1416229	BA
Aroclor 1248	1405226	1416229	BA
Aroclor 1248	1405226	1416229	BA
Aroclor 1254	797815	828285	BA
Aroclor 1254	797815	828285	BA
Aroclor 1254	797815	828285	BA
Aroclor 1254	797815	828285	BA
Aroclor 1254	797815	828285	BA
Aroclor 1260	1276603	0	CO
Aroclor 1260	1276603	0	CO
Aroclor 1260	1276603	0	CO
Aroclor 1260	1276603	0	CO
Aroclor 1260	1276603	0	CO
Tetrachloro-m-xylene	2265846	2270951	BA
Decachlorobiphenyl	2186712	2186712	

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SAMPLE NO.

ND3-170615-01-BB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703017
Date Analyzed: 04/10/2018 19:07
Lab File ID: 041018.B\041018026.D
Initial wt/vol: 9.9676 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)	220	
11097-69-1	PCB-1254 (Aroclor 1254)	160	
11096-82-5	PCB-1260 (Aroclor 1260)	196	
1336-36-3	PCB, Total	577	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018026.D
Lab Smp Id: 40157703017 Client Smp ID: ND3-170615-01-BB-03
Inj Date : 10-APR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703017,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	10777	9237	0.857	0.01		
1.432	12298	8815	0.717	0.01		
2.196	25716	20679	0.804	0.03		
2.411	37809	29977	0.793	0.04		
2.484	10086245	9559842	0.948	11.77	$ 2 Tetrachloro-m-xylene	
2.785	19839	19328	0.974	0.02		
2.851	30092	21673	0.720	0.03		
2.976	23419	16326	0.697	0.02		
3.020	20794	18939	0.911	0.02		
3.054	29265	24698	0.844	0.03		
3.318	26357	23731	0.900	0.03		
3.345	24946	20169	0.808	0.02		
3.433	66088	62620	0.948	0.07		
3.519	109979	100245	0.911	0.12		
3.645	29993	29286	0.976	0.03		
3.731	178384	157969	0.886	0.20		
3.826	908262	646259	0.712	1.06		
3.935	26992	19050	0.706	0.03		
3.993	120429	108833	0.904	0.14		
4.056	41727	33611	0.806	0.04		
4.139	13935	10532	0.756	0.01		
4.214	428319	343867	0.803	0.50		
4.261	856956	820643	0.958	1.00	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	2808372	2390567	0.851	3.27	
4.350	31288	23745	0.759	0.03	
4.416	497758	462173	0.929	0.58	
4.452	225669	203281	0.901	0.26	
4.545	1203312	1117920	0.929	1.40	6 Aroclor 1248
4.589	265306	238840	0.900	0.30	
4.616	95992	78729	0.820	0.11	
4.679	113706	96498	0.849	0.13	
4.737	145876	130507	0.895	0.17	
4.767	621698	577527	0.929	0.72	
4.813	1482815	1356514	0.915	1.73	6 Aroclor 1248
4.847	211932	200796	0.947	0.24	
4.878	2870067	1735936	0.605	3.35	6 Aroclor 1248
4.957	412779	312362	0.757	0.48	
5.037	867337	802189	0.925	1.01	6 Aroclor 1248
5.100	1722534	1496085	0.869	2.01	
5.157	1280283	1105812	0.864	1.49	7 Aroclor 1254
5.211	984998	813822	0.826	1.15	
5.283	341558	333475	0.976	0.39	
5.307	598300	513094	0.858	0.69	
5.361	391727	334958	0.855	0.45	
5.405	1473442	1320256	0.896	1.72	7 Aroclor 1254
5.446	940106	759328	0.808	1.09	
5.478	179844	174147	0.968	0.20	
5.509	2262115	1953224	0.863	2.64	7 Aroclor 1254
5.577	125401	118813	0.947	0.14	
5.603	297605	249206	0.837	0.34	
5.674	1126112	1055868	0.938	1.31	
5.708	609947	535926	0.879	0.71	
5.741	1060512	831924	0.784	1.23	
5.789	4350731	3337752	0.767	5.07	
5.884	545616	419937	0.770	0.63	
5.931	715653	589959	0.824	0.83	
5.993	1642444	1477365	0.899	1.91	
6.024	1953514	1580249	0.809	2.28	7 Aroclor 1254
6.054	681602	556993	0.817	0.79	
6.168	824789	549408	0.666	0.96	
6.228	332041	385689	1.162	0.38	
6.241	575897	480355	0.834	0.67	
6.302	5185528	4158929	0.802	6.05	8 Aroclor 1260
6.332	468562	429626	0.917	0.54	
6.371	213670	174016	0.814	0.24	
6.431	1041960	921619	0.885	1.21	
6.509	2792835	2445346	0.876	3.26	
6.534	835714	773982	0.926	0.97	
6.559	446869	403707	0.903	0.52	
6.604	204961	175690	0.857	0.23	
6.660	144612	130702	0.904	0.16	
6.717	618466	532909	0.862	0.72	
6.757	978214	863789	0.883	1.14	
6.801	845451	762721	0.902	0.98	
6.839	502401	389068	0.774	0.58	
6.912	153771	145420	0.946	0.17	
6.941	423146	397399	0.939	0.49	
7.004	2457111	2160895	0.879	2.86	8 Aroclor 1260
7.033	275122	245869	0.894	0.32	
7.074	44248	41164	0.930	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.120	89705	83610	0.932	0.10	
7.251	1012375	908280	0.897	1.18	8 Aroclor 1260
7.280	369161	307945	0.834	0.43	
7.388	1367294	1143656	0.836	1.59	
7.441	1415796	1250500	0.883	1.65	8 Aroclor 1260
7.551	72373	61288	0.847	0.08	
7.689	353682	321934	0.910	0.41	
7.727	339919	302417	0.890	0.39	
7.799	175678	132085	0.752	0.20	
7.899	1125616	1016971	0.903	1.31	8 Aroclor 1260
7.962	115409	80808	0.700	0.13	
8.048	126715	106901	0.844	0.14	
8.224	13232	15908	1.202	0.01	
8.241	21209	20246	0.955	0.02	
8.273	1105258	969656	0.877	1.29	
8.379	22486	13477	0.599	0.02	
8.457	14772	9993	0.676	0.01	
8.499	13725	13019	0.949	0.01	
8.569	10128140	8428401	0.832	12.31	$ 12 Decachlorobiphenyl
8.722	19485	14731	0.756	0.02	
9.051	12529	11429	0.912	0.01	
9.167	83551	72507	0.868	0.09	
9.700	19128	14419	0.754	0.02	
	85649173	73260590		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018026.D
Lab Smp Id: 40157703017 Client Smp ID: ND3-170615-01-BB-03
Inj Date : 10-APR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703017,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.968	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	10086245	0.08181	41			

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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	856956	0.36576	180	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1203312	0.28993	140	0.00- 20.00	140.42	BA
4.812	4.812	0.000	1482815	0.73042	370	0.00- 20.00	173.03	BA
4.877	4.879	-0.002	2870066	0.56975	280	0.00- 20.00	334.91	BA
5.036	5.038	-0.002	867337	0.24170	120	0.00- 20.00	101.21	BA
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.156	5.162	-0.006	1280282	0.24455	120	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1473442	0.34258	170	0.00- 20.00	115.09	BA
5.508	5.510	-0.002	2262114	0.29128	150	0.00- 20.00	176.69	BA
6.023	6.027	-0.004	1953513	0.40116	200	0.00- 20.00	152.58	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					160			
8 Aroclor 1260					CAS #: 11096-82-5			
6.301	6.300	0.001	5185527	0.58512	290	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2457110	0.24536	120	0.00- 20.00	47.38	BA
7.250	7.251	-0.001	1012374	0.21180	110	0.00- 20.00	19.52	BA
7.441	7.443	-0.002	1415796	0.48567	240	0.00- 20.00	27.30	BA
7.899	7.901	-0.002	1125616	0.42657	210	0.00- 20.00	21.71	BA
Average of Peak Concentrations =					200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10128139	0.09244	46			

QC Flag Legend

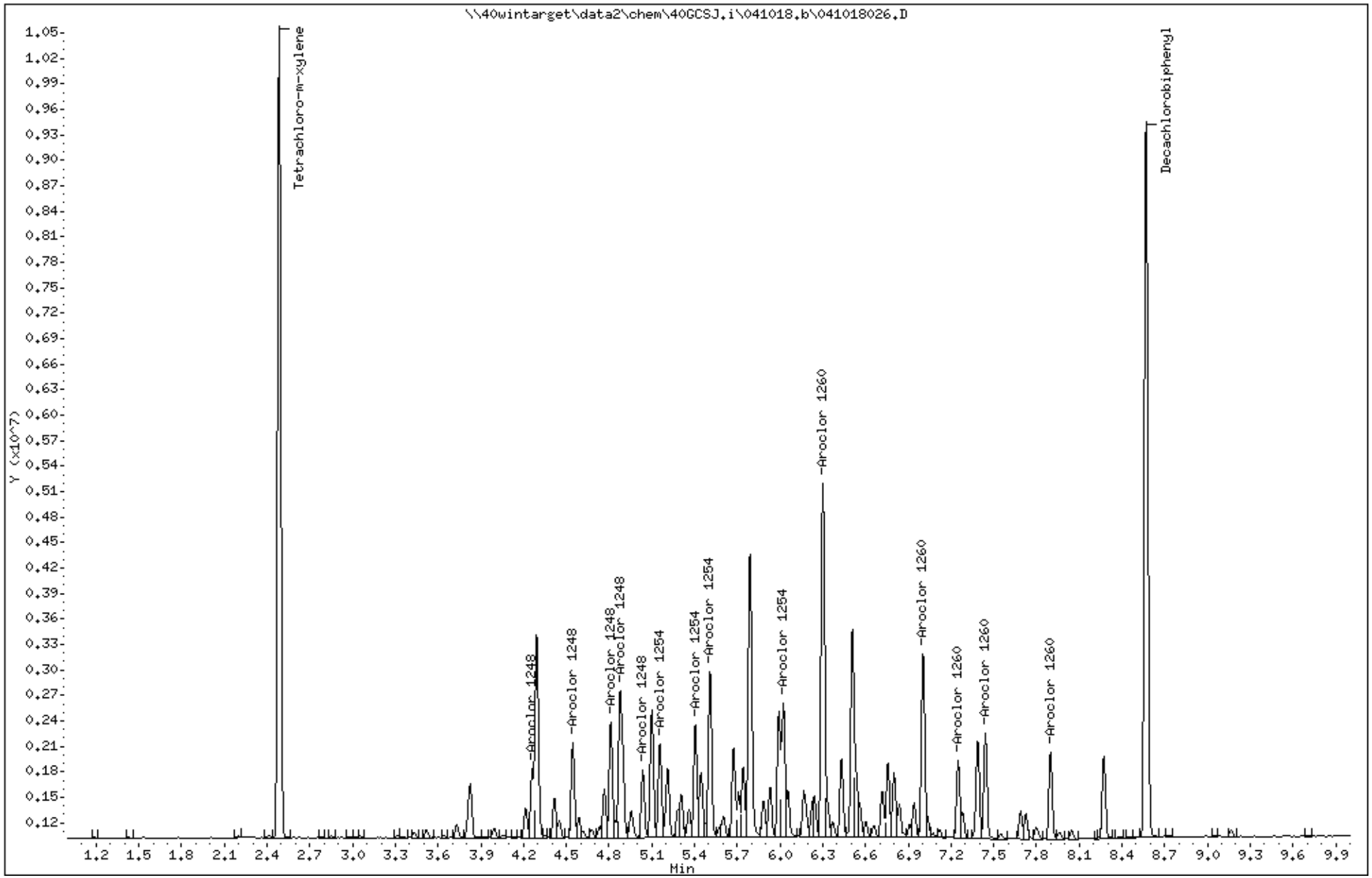
M - Compound response manually integrated.

Review Codes Legend

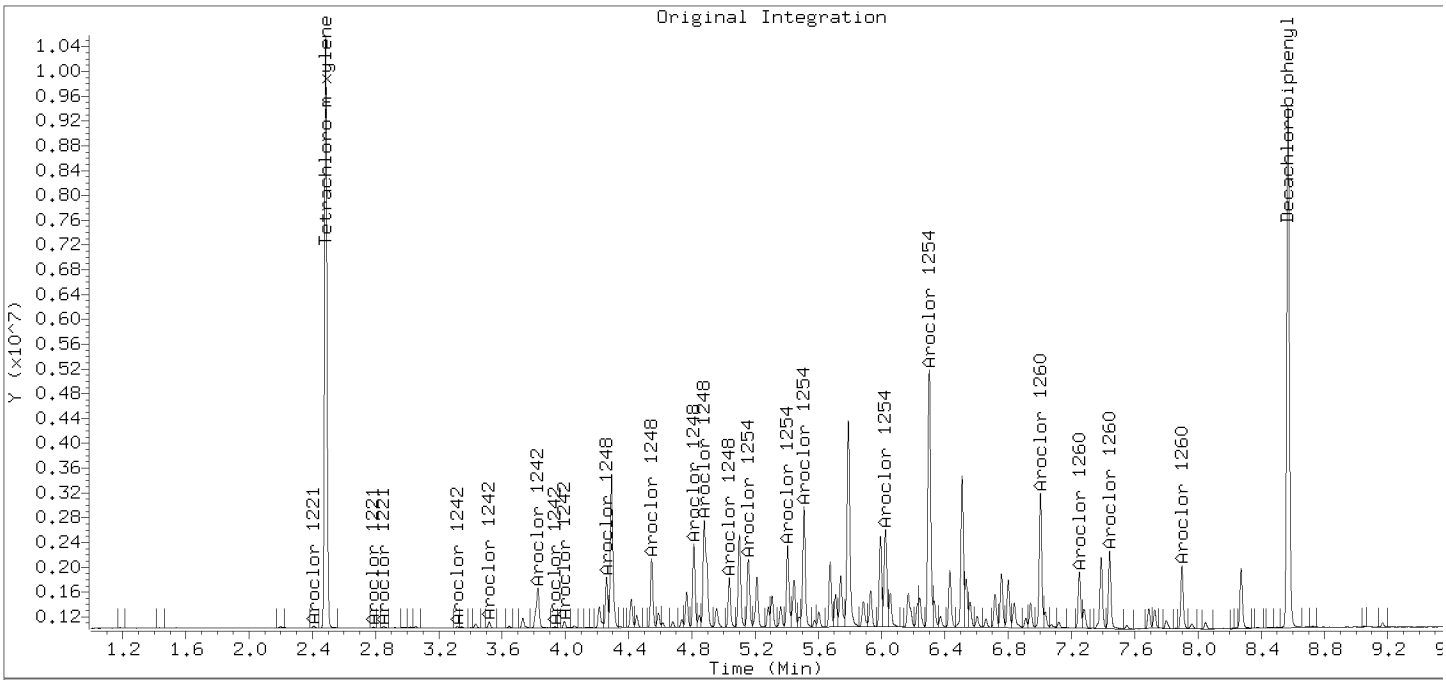
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

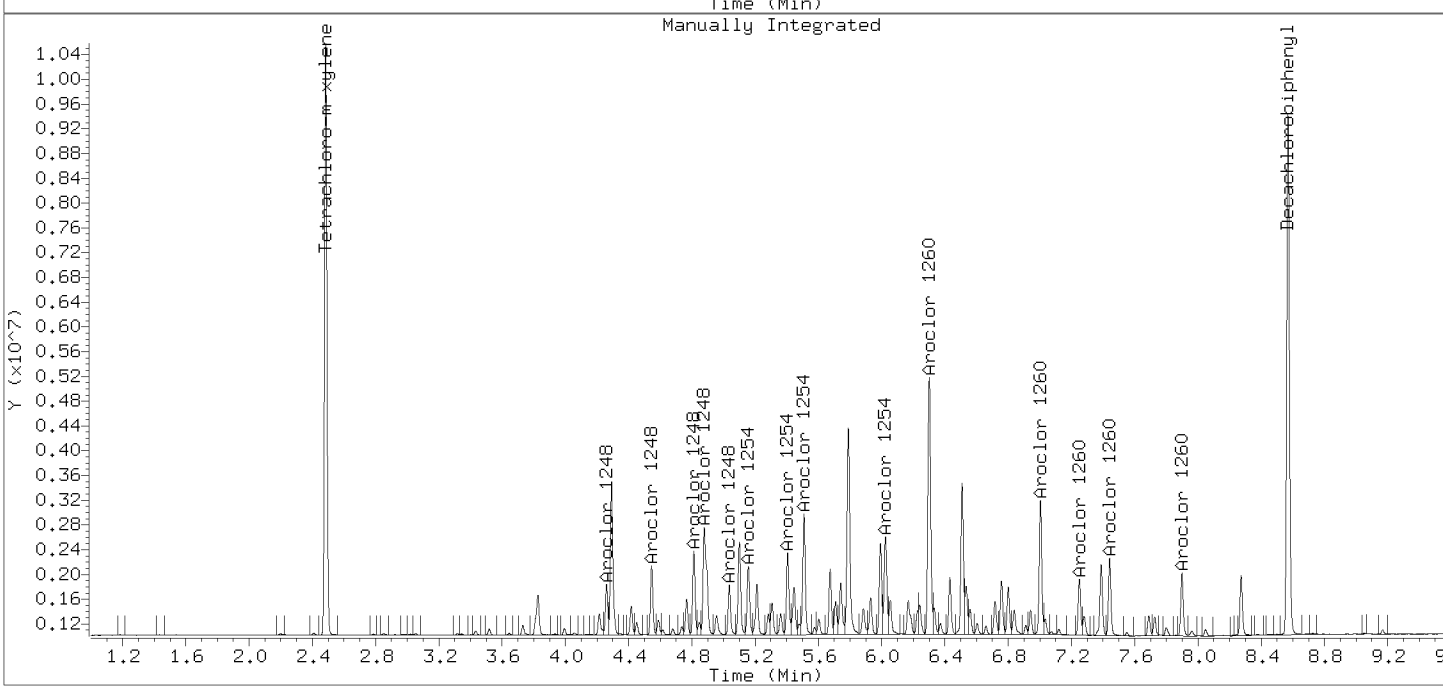
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018026.D
Date : 10-APR-2018 19:07
Client ID: ND3-170615-01-BB-03
Sample Info: 40157703017,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 19:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703017





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	26356	0	
Aroclor 1016	26356	0	
Aroclor 1016	26356	0	
Aroclor 1016	26356	0	
Aroclor 1016	26356	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30092	0	
Aroclor 1232	30092	0	
Aroclor 1232	30092	0	
Aroclor 1232	30092	0	

Aroclor 1232	30092	0	
Aroclor 1242	26356	0	
Aroclor 1242	26356	0	
Aroclor 1242	26356	0	
Aroclor 1242	26356	0	
Aroclor 1242	26356	0	
Aroclor 1248	847769	856956	BA
Aroclor 1248	847769	856956	BA
Aroclor 1248	847769	856956	BA
Aroclor 1248	847769	856956	BA
Aroclor 1248	847769	856956	BA
Aroclor 1254	1257425	1280282	BA
Aroclor 1254	1257425	1280282	BA
Aroclor 1254	1257425	1280282	BA
Aroclor 1254	1257425	1280282	BA
Aroclor 1254	1257425	1280282	BA
Aroclor 1260	5172727	5185527	BA
Aroclor 1260	5172727	5185527	BA
Aroclor 1260	5172727	5185527	BA
Aroclor 1260	5172727	5185527	BA
Aroclor 1260	5172727	5185527	BA
Tetrachloro-m-xylene	10086245	10086245	
Decachlorobiphenyl	10128139	10128139	

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SAMPLE NO.

ND3-170615-01-BB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703018
Date Analyzed: 04/10/2018 19:23
Lab File ID: 041018.B\041018027.D
Initial wt/vol: 9.9767 g Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	255	J
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)	1520	
11097-69-1	PCB-1254 (Aroclor 1254)	1230	
11096-82-5	PCB-1260 (Aroclor 1260)	449	J
1336-36-3	PCB, Total	3450	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018027.D
Lab Smp Id: 40157703018 Client Smp ID: ND3-170615-01-BB-02
Inj Date : 10-APR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703018 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
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	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	82101	61751	0.752	0.21	1 Aroclor 1221	BA
2.484	1035204	990238	0.957	2.68	$ 2 Tetrachloro-m-xylene	BA
2.678	15229	13103	0.860	0.03	1 Aroclor 1221	BA
2.788	24363	19476	0.799	0.06	1 Aroclor 1221	BA
2.850	68294	58629	0.858	0.17	1 Aroclor 1221	BA
3.018	13172	10253	0.778	0.03		
3.056	48781	41139	0.843	0.12		
3.317	64347	59837	0.930	0.16		
3.344	49048	43305	0.883	0.12		
3.433	130667	116735	0.893	0.33		
3.519	149680	134648	0.900	0.38		
3.642	30010	26925	0.897	0.07		
3.732	167490	161015	0.961	0.43		
3.813	242815	309932	1.276	0.62		
3.826	399093	353888	0.887	1.03		
3.937	59760	43993	0.736	0.15		
3.994	88745	75397	0.850	0.23		
4.058	40481	33675	0.832	0.10		
4.131	13845	9804	0.708	0.03		
4.214	502089	426385	0.849	1.30		
4.260	753561	731033	0.970	1.95	6 Aroclor 1248	BA
4.292	2296437	1939333	0.844	5.95		
4.344	30287	18142	0.599	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	266352	244380	0.918	0.69	
4.451	165977	145413	0.876	0.43	
4.545	904968	821356	0.908	2.34	6 Aroclor 1248
4.587	229894	204127	0.888	0.59	
4.615	54232	46837	0.864	0.14	
4.680	113216	98475	0.870	0.29	
4.736	145593	126904	0.872	0.37	
4.767	488374	466568	0.955	1.26	
4.813	896113	836240	0.933	2.32	6 Aroclor 1248
4.846	182335	172342	0.945	0.47	
4.879	1992490	1057340	0.531	5.16	6 Aroclor 1248
4.956	367814	294929	0.802	0.95	
5.037	498485	455972	0.915	1.29	6 Aroclor 1248
5.100	1226917	1087165	0.886	3.18	
5.157	854313	737801	0.864	2.21	7 Aroclor 1254
5.212	822744	679289	0.826	2.13	
5.283	209269	205246	0.981	0.54	
5.306	413497	340354	0.823	1.07	
5.361	286102	249009	0.870	0.74	
5.406	966263	845531	0.875	2.50	7 Aroclor 1254
5.445	590317	471157	0.798	1.53	
5.477	155814	147360	0.946	0.40	
5.509	1647038	1380558	0.838	4.27	7 Aroclor 1254
5.576	98875	87838	0.888	0.25	
5.603	188327	156310	0.830	0.48	
5.674	905251	837149	0.925	2.34	
5.708	380728	325251	0.854	0.98	
5.742	517414	407467	0.788	1.34	
5.789	2398158	1810478	0.755	6.22	
5.883	319622	238840	0.747	0.82	
5.930	323900	260030	0.803	0.84	
5.991	658610	599164	0.910	1.70	
6.024	1116848	934502	0.837	2.89	7 Aroclor 1254
6.054	646679	521655	0.807	1.67	
6.168	442974	257292	0.581	1.14	
6.226	129220	161366	1.249	0.33	
6.240	269461	208335	0.773	0.69	
6.301	2581951	2059120	0.798	7.17	7 Aroclor 1254
6.330	222387	213571	0.960	0.57	
6.373	122907	95060	0.773	0.31	
6.431	404959	339355	0.838	1.05	
6.508	1031382	925360	0.897	2.67	
6.534	394107	342540	0.869	1.02	
6.559	152083	144106	0.948	0.39	
6.605	88923	69779	0.785	0.23	
6.661	58604	48321	0.825	0.15	
6.716	271762	234543	0.863	0.70	
6.758	342902	295810	0.863	0.88	
6.801	335674	286129	0.852	0.87	
6.838	181377	129264	0.713	0.47	
6.912	42076	38030	0.904	0.10	
6.942	133345	115966	0.870	0.34	
7.003	712830	649310	0.911	1.84	8 Aroclor 1260
7.035	96762	88076	0.910	0.25	
7.075	17193	15042	0.875	0.04	
7.122	44550	31424	0.705	0.11	
7.250	364465	313300	0.860	0.94	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.280	123905	101435	0.819	0.32	
7.387	377753	311434	0.824	0.98	
7.441	329884	298647	0.905	0.85	8 Aroclor 1260
7.550	24322	19921	0.819	0.06	
7.689	95337	82045	0.861	0.24	
7.725	91366	67515	0.739	0.23	
7.800	44754	27584	0.616	0.11	
7.898	258587	219968	0.851	0.67	8 Aroclor 1260
7.959	38080	22654	0.595	0.09	
8.048	31286	27512	0.879	0.08	
8.273	202228	181073	0.895	0.52	
8.570	1116373	946014	0.847	2.89	$ 12 Decachlorobiphenyl
9.168	31118	27130	0.872	0.08	
	38544916	32365704		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018027.D
Lab Smp Id: 40157703018 Client Smp ID: ND3-170615-01-BB-02
Inj Date : 10-APR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703018 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
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	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	82101	0.14986	750	0.00- 20.00	0.00	BA
2.685	2.688	-0.003	15229	0.01101	55	0.00- 20.00	0.00	BA
2.787	2.789	-0.002	24362	0.02203	110	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	68294	0.02098	100	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					260			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	1035203	0.00840	42		(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			
4.260	4.261	-0.001	753561	0.32163	1600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	904968	0.21805	1100	0.00- 20.00	120.09	BA
4.812	4.812	0.000	896113	0.44142	2200	0.00- 20.00	118.92	BA
4.879	4.879	0.000	1992489	0.39554	2000	0.00- 20.00	264.41	BA
5.036	5.038	-0.002	498484	0.13891	700	0.00- 20.00	66.15	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.156	5.162	-0.006	854313	0.16318	820	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	966262	0.22466	1100	0.00- 20.00	113.10	CO
5.508	5.510	-0.002	1647037	0.21208	1100	0.00- 20.00	192.79	CO
6.024	6.027	-0.003	1116847	0.22935	1100	0.00- 20.00	130.73	CO
6.301	6.299	0.002	2581951	0.39679	2000	0.00- 20.00	302.23	CO
Average of Peak Concentrations =					1200			
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	712830	0.07118	360	0.00- 20.00	25.45	CO
7.250	7.251	-0.001	364465	0.07625	380	0.00- 20.00	13.01	CO
7.441	7.443	-0.002	329883	0.11316	570	0.00- 20.00	11.78	CO
7.898	7.901	-0.003	258587	0.09800	490	0.00- 20.00	9.23	CO
Average of Peak Concentrations =					450			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1116373	0.01019	51			

QC Flag Legend

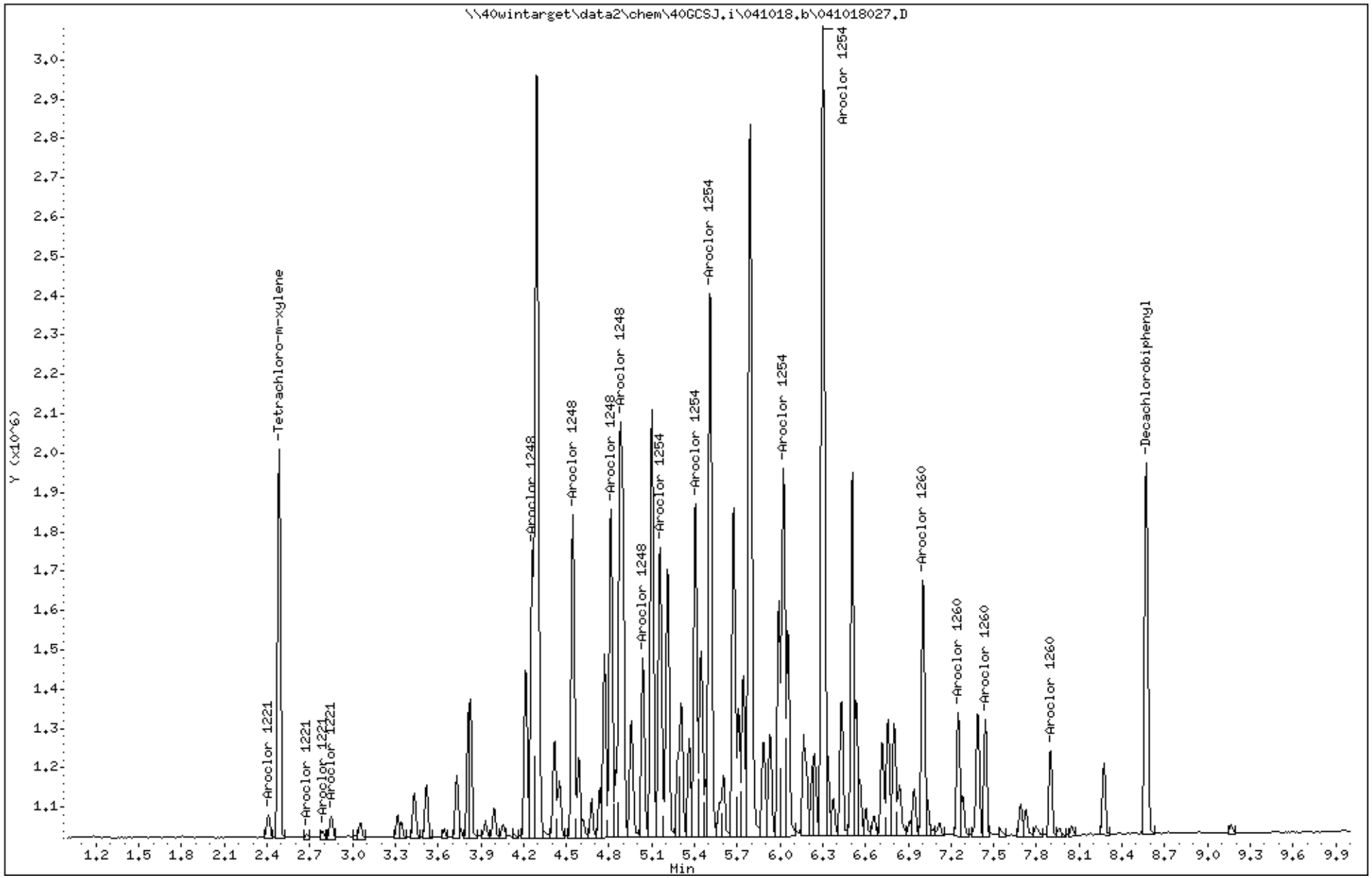
M - Compound response manually integrated.

Review Codes Legend

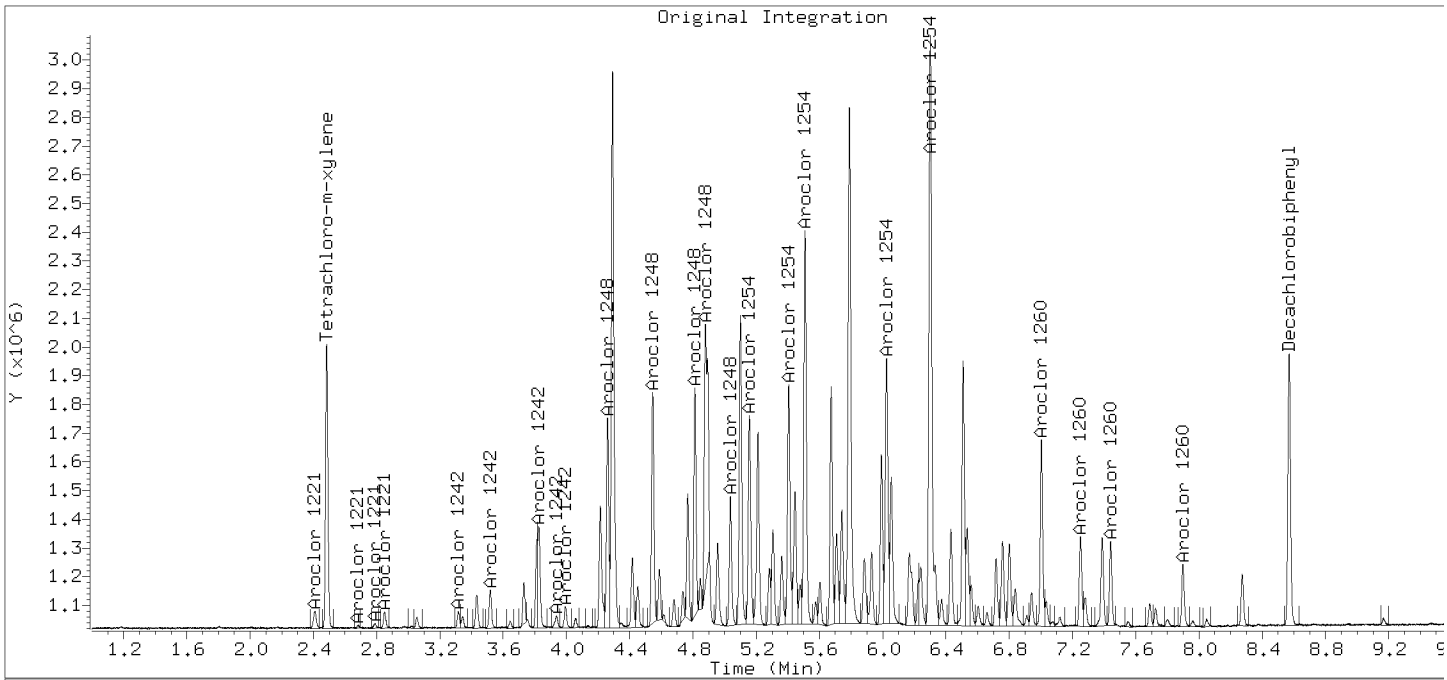
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

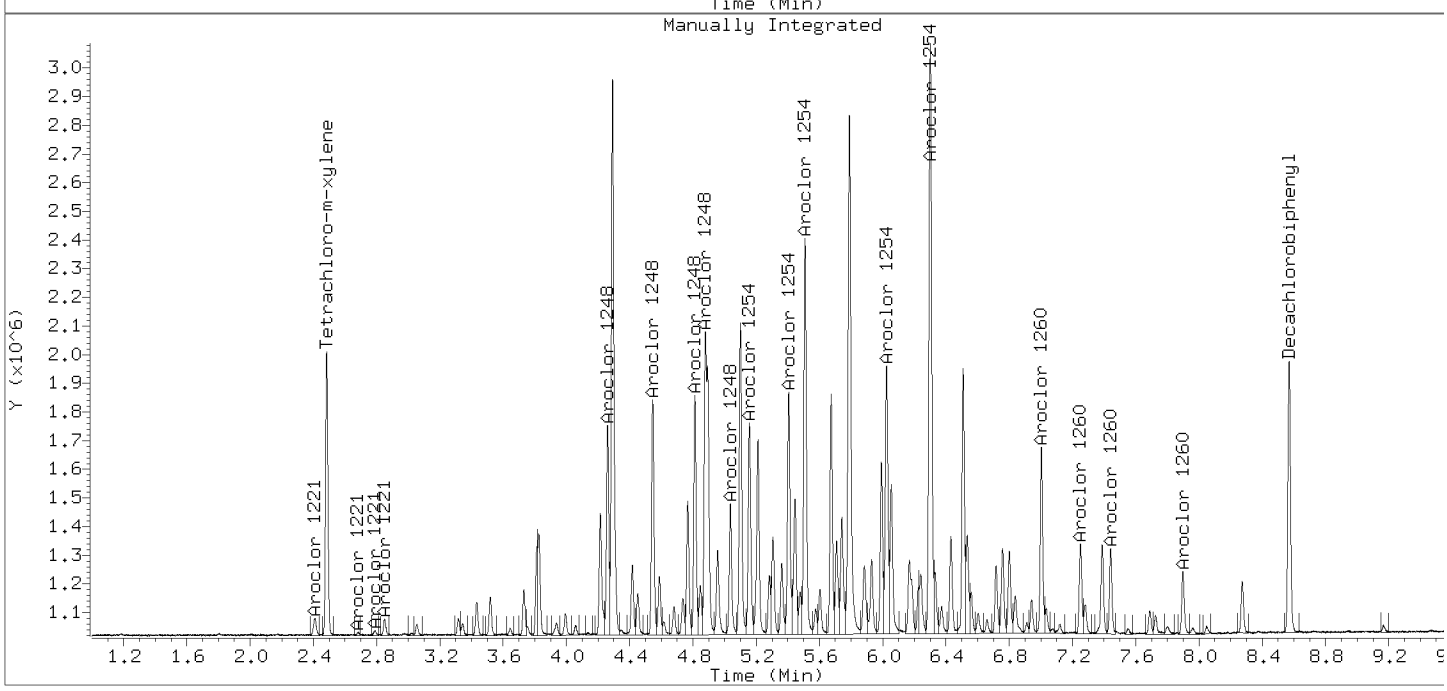
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018027.D
Date : 10-APR-2018 19:23
Client ID: ND3-170615-01-BB-02
Sample Info: 40157703018 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	59996	0	BA
Aroclor 1016	59996	0	BA
Aroclor 1016	59996	0	BA
Aroclor 1016	59996	0	BA
Aroclor 1016	59996	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	59671	0	BA
Aroclor 1232	59671	0	BA
Aroclor 1232	59671	0	BA
Aroclor 1232	59671	0	BA

Aroclor 1232	59671	0	BA
Aroclor 1242	59996	0	BA
Aroclor 1242	59996	0	BA
Aroclor 1242	59996	0	BA
Aroclor 1242	59996	0	BA
Aroclor 1242	59996	0	BA
Aroclor 1248	748382	753561	BA
Aroclor 1248	748382	753561	BA
Aroclor 1248	748382	753561	BA
Aroclor 1248	748382	753561	BA
Aroclor 1248	748382	753561	BA
Aroclor 1254	817544	854313	CO
Aroclor 1254	817544	854313	CO
Aroclor 1254	817544	854313	CO
Aroclor 1254	817544	854313	CO
Aroclor 1254	817544	854313	CO
Aroclor 1260	2780133	0	CO
Aroclor 1260	2780133	0	CO
Aroclor 1260	2780133	0	CO
Aroclor 1260	2780133	0	CO
Aroclor 1260	2780133	0	CO
Tetrachloro-m-xylene	1031368	1035203	BA
Decachlorobiphenyl	1116373	1116373	

==========

SAMPLE NO.

ND3-170615-01-BB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157703019
Date Analyzed: 04/10/2018 20:43
Lab File ID: 041018.B\041018032.D
Initial wt/vol: 9.9989 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)	<57.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	142	J
11141-16-5	PCB-1232 (Aroclor 1232)	<57.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	1320	
11097-69-1	PCB-1254 (Aroclor 1254)	674	
11096-82-5	PCB-1260 (Aroclor 1260)	202	J
1336-36-3	PCB, Total	2340	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018032.D
Lab Smp Id: 40157703019 Client Smp ID: ND3-170615-01-BB-01
Inj Date : 10-APR-2018 20:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703019 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	9.999	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.410	91579	63573	0.694	0.17		1 Aroclor 1221	BA
2.484	2156722	1982724	0.919	4.20	$	2 Tetrachloro-m-xylene	BA
2.686	18989	12893	0.679	0.03		1 Aroclor 1221	BA
2.791	28455	19273	0.677	0.05		1 Aroclor 1221	BA
2.850	67186	52264	0.778	0.13		1 Aroclor 1221	BA
2.972	24523	18081	0.737	0.04			
3.016	34235	28336	0.828	0.06			
3.056	57759	47045	0.815	0.11			
3.316	118694	101536	0.855	0.23			
3.344	58120	54495	0.938	0.11			
3.433	225138	203002	0.902	0.43			
3.518	274345	242872	0.885	0.53			
3.645	81549	70714	0.867	0.15			
3.732	560023	486637	0.869	1.09			
3.813	781602	966317	1.236	1.52			
3.825	1146883	1042829	0.909	2.23			
3.938	161000	111416	0.692	0.31			
3.994	250430	227390	0.908	0.48			
4.057	104701	91409	0.873	0.20			
4.133	22411	16129	0.720	0.04			
4.214	1515120	1296419	0.856	2.95			
4.260	1935197	1797733	0.929	3.77		6 Aroclor 1248	BA
4.291	3626088	3038255	0.838	7.53			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.347	53533	41910	0.783	0.10	
4.417	662036	614967	0.929	1.29	
4.452	477425	420055	0.880	0.93	
4.545	1841916	1677208	0.911	3.59	6 Aroclor 1248
4.588	287910	265826	0.923	0.56	
4.616	130875	109908	0.840	0.25	
4.679	194544	171528	0.882	0.37	
4.735	208849	177775	0.851	0.40	
4.767	648288	606616	0.936	1.26	
4.813	1245063	1148507	0.922	2.42	6 Aroclor 1248
4.847	495743	466075	0.940	0.96	
4.878	2595112	1398182	0.539	5.05	6 Aroclor 1248
4.956	516917	425585	0.823	1.00	
5.037	879690	791668	0.900	1.71	6 Aroclor 1248
5.101	1394458	1212229	0.869	2.71	
5.158	1287821	1049832	0.815	2.51	7 Aroclor 1254
5.212	1289803	1084597	0.841	2.51	
5.283	217046	210004	0.968	0.42	
5.306	459088	379892	0.827	0.89	
5.362	427915	375994	0.879	0.83	
5.406	1136589	1013185	0.891	2.21	7 Aroclor 1254
5.445	762490	635925	0.834	1.48	
5.477	184429	167645	0.909	0.35	
5.509	1999876	1691013	0.846	3.89	7 Aroclor 1254
5.576	110696	97038	0.877	0.21	
5.603	247255	214213	0.866	0.48	
5.674	754069	707043	0.938	1.46	
5.708	353512	299046	0.846	0.68	
5.741	477602	370924	0.777	0.93	
5.789	2300458	1706214	0.742	4.48	
5.885	297580	219936	0.739	0.58	
5.931	289408	234945	0.812	0.56	
5.992	572576	534778	0.934	1.11	
6.024	1079351	900035	0.834	2.10	7 Aroclor 1254
6.055	1175429	962383	0.819	2.29	
6.168	369034	208249	0.564	0.71	
6.227	121376	144184	1.188	0.23	
6.240	238162	185588	0.779	0.46	
6.300	2328872	1877806	0.806	4.53	7 Aroclor 1254
6.331	217165	194970	0.898	0.42	
6.373	102029	82855	0.812	0.19	
6.430	330951	274314	0.829	0.64	
6.509	766563	694067	0.905	1.49	
6.534	415716	374028	0.900	0.81	
6.560	172129	148455	0.862	0.33	
6.603	74099	58895	0.795	0.14	
6.660	40191	36437	0.907	0.07	
6.718	206864	172950	0.836	0.40	
6.758	279120	246536	0.883	0.54	
6.801	288667	249298	0.864	0.56	
6.838	144718	108363	0.749	0.28	
6.911	29687	30660	1.033	0.05	
6.941	123418	113681	0.921	0.24	
7.003	623860	551527	0.884	1.21	8 Aroclor 1260
7.033	68600	64311	0.937	0.13	
7.071	11048	11789	1.067	0.02	
7.121	24761	23353	0.943	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	344135	296687	0.862	0.67	8 Aroclor 1260
7.280	106505	89364	0.839	0.20	
7.388	287381	256304	0.892	0.56	
7.442	289563	246021	0.850	0.56	8 Aroclor 1260
7.551	19415	17881	0.921	0.03	
7.689	86143	81002	0.940	0.16	
7.725	70542	59159	0.839	0.13	
7.804	43905	26316	0.599	0.08	
7.899	234944	203940	0.868	0.45	8 Aroclor 1260
7.960	27002	19183	0.710	0.05	
8.049	37859	27090	0.716	0.07	
8.273	186999	160952	0.861	0.36	
8.569	2142899	1849823	0.863	4.17	$ 12 Decachlorobiphenyl
8.725	10899	6935	0.636	0.02	
9.061	10213	7840	0.768	0.01	
9.167	34384	27654	0.804	0.06	
	51305921	43582490		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018032.D
Lab Smp Id: 40157703019 Client Smp ID: ND3-170615-01-BB-01
Inj Date : 10-APR-2018 20:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157703019 x5,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	9.999	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	91578	0.16716	420	0.00- 20.00	0.00	BA
2.686	2.688	-0.002	18989	0.01373	34	0.00- 20.00	0.00	BA
2.791	2.789	0.002	28455	0.02573	64	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	67186	0.02064	52	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					140			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2156722	0.01749	44		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1935197	0.82596	2100	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1841915	0.44380	1100	0.00- 20.00	95.18	BA
4.812	4.812	0.000	1245063	0.61331	1500	0.00- 20.00	64.34	BA
4.878	4.879	-0.001	2595112	0.51516	1300	0.00- 20.00	134.10	BA
5.037	5.038	-0.001	879690	0.24514	610	0.00- 20.00	45.46	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1287820	0.24599	620	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1136588	0.26426	660	0.00- 20.00	88.26	BA
5.509	5.510	-0.001	1999876	0.25751	640	0.00- 20.00	155.29	BA
6.024	6.027	-0.003	1079351	0.22165	550	0.00- 20.00	83.81	BA
6.300	6.299	0.001	2328872	0.35790	890	0.00- 20.00	180.84	BA
Average of Peak Concentrations =					670			
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	623859	0.06230	160	0.00- 20.00	26.79	BA
7.249	7.251	-0.002	344135	0.07200	180	0.00- 20.00	14.78	BA
7.441	7.443	-0.002	289563	0.09933	250	0.00- 20.00	12.43	BA
7.899	7.901	-0.002	234943	0.08904	220	0.00- 20.00	10.09	BA
Average of Peak Concentrations =					200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2142899	0.01956	49			

QC Flag Legend

M - Compound response manually integrated.

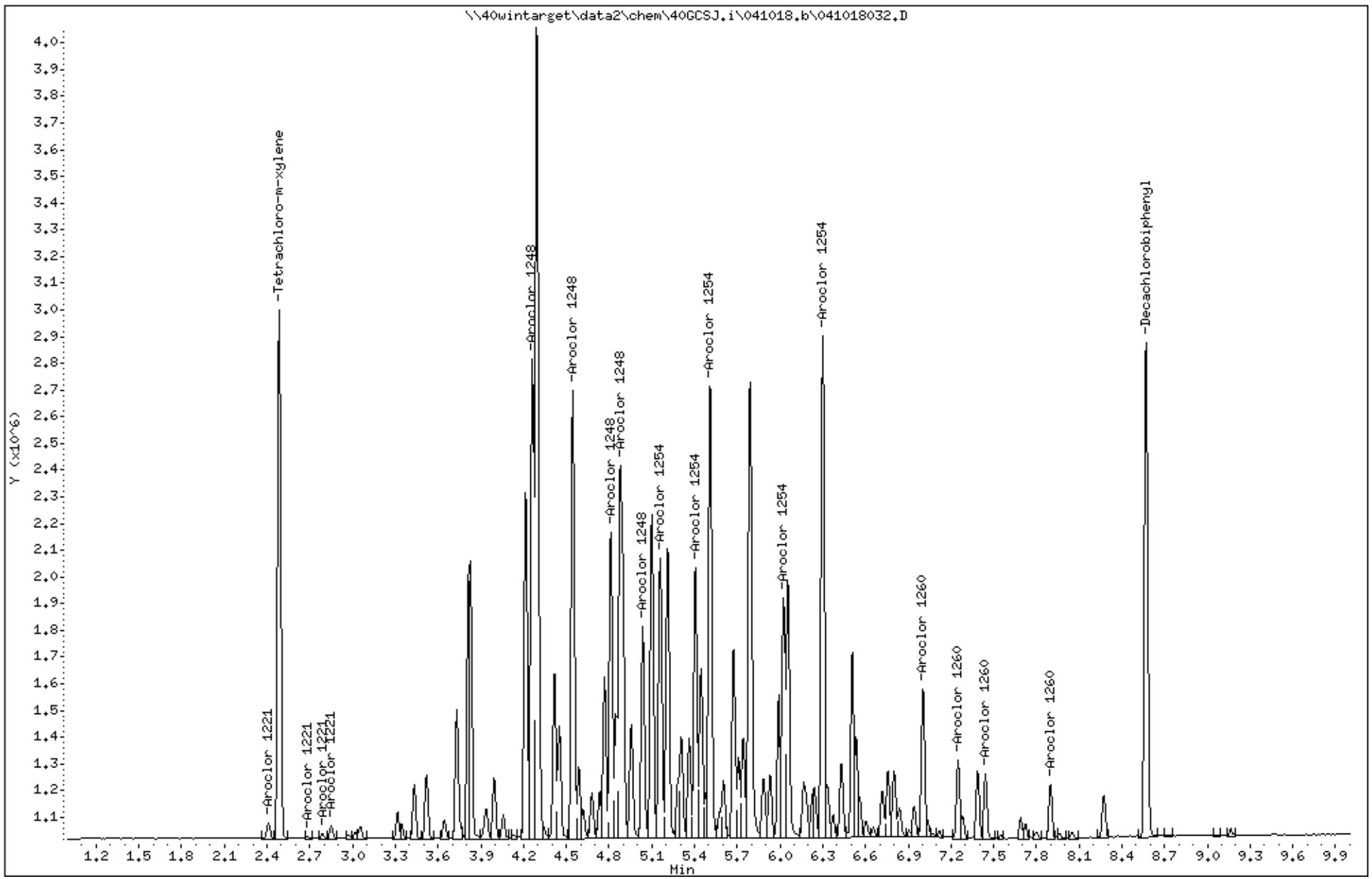
Review Codes Legend

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

:

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018032.D
Date : 10-APR-2018 20:43
Client ID: ND3-170615-01-BB-01
Sample Info: 40157703019 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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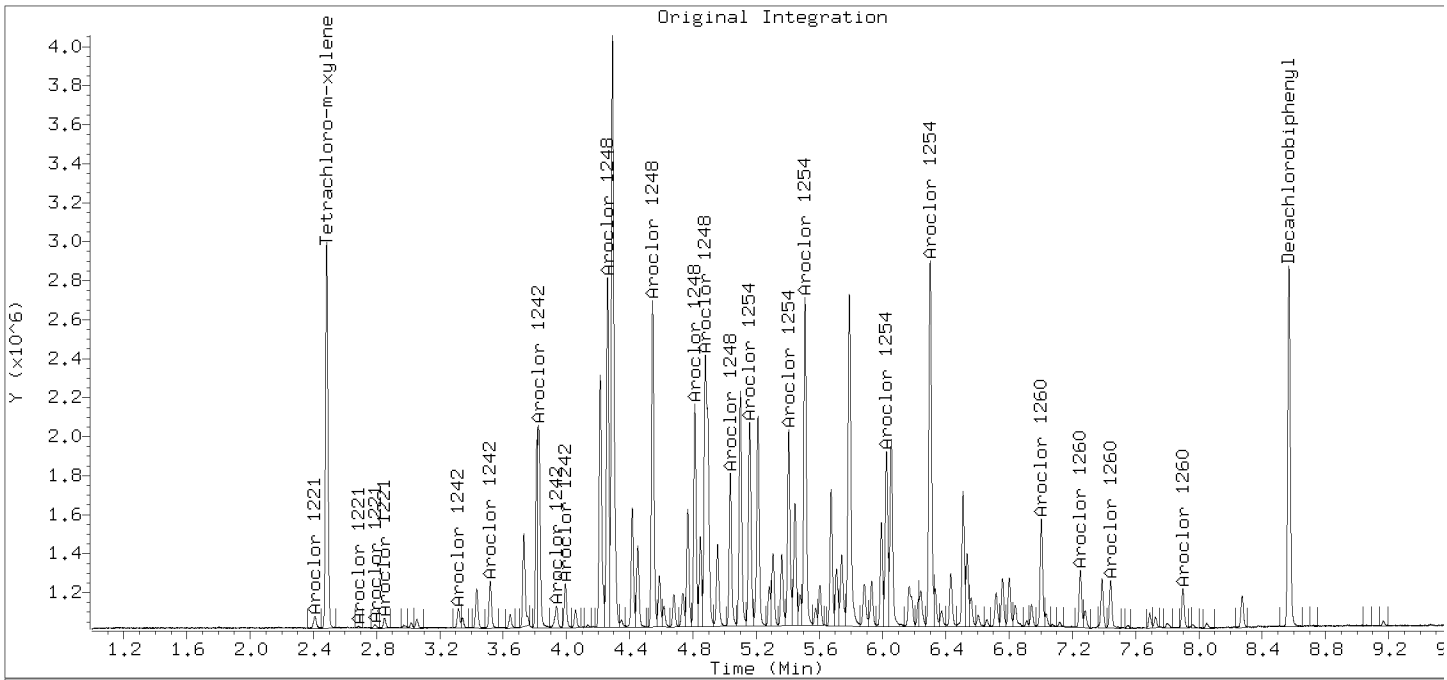
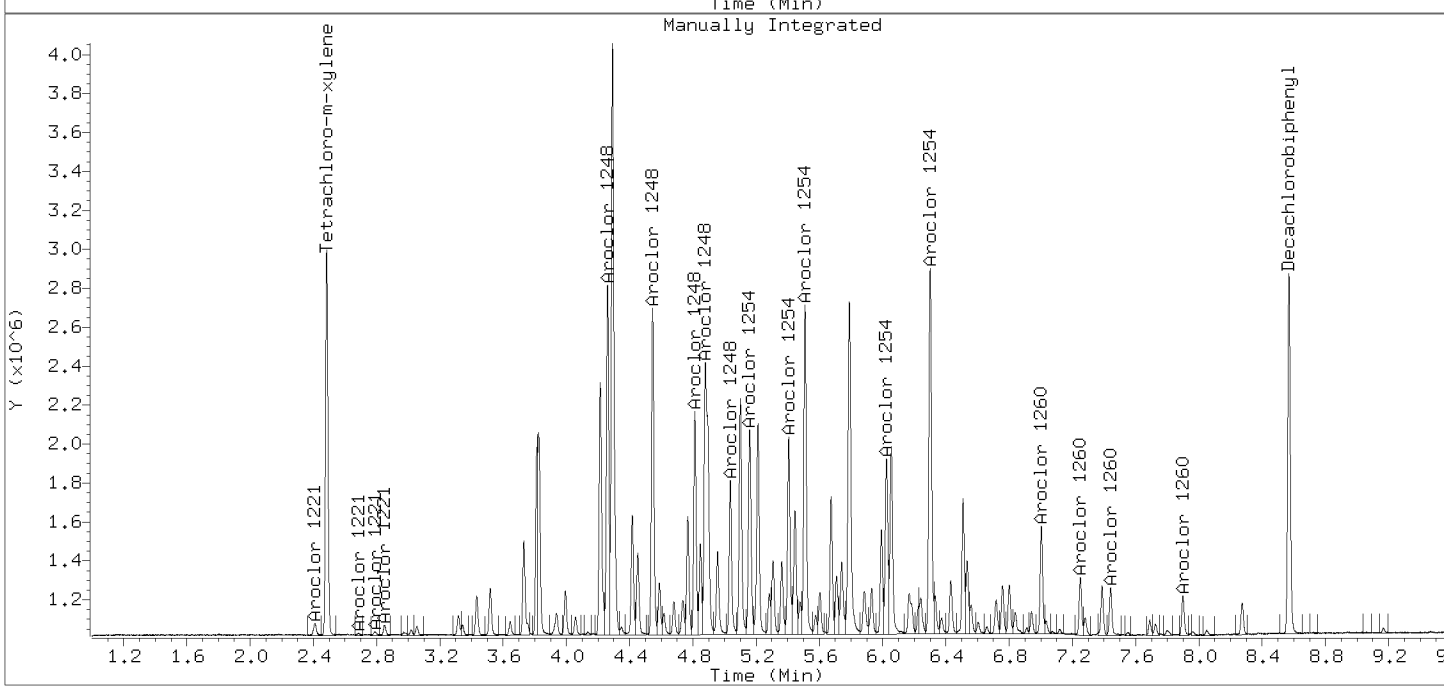
Injection Date: 10-APR-2018 20:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157703019





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	115812	0	
Aroclor 1016	115812	0	
Aroclor 1016	115812	0	
Aroclor 1016	115812	0	
Aroclor 1016	115812	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	62008	0	
Aroclor 1232	62008	0	
Aroclor 1232	62008	0	
Aroclor 1232	62008	0	

Aroclor 1232	62008	0	
Aroclor 1242	115812	0	
Aroclor 1242	115812	0	
Aroclor 1242	115812	0	
Aroclor 1242	115812	0	
Aroclor 1242	115812	0	
Aroclor 1248	1924708	1935197	BA
Aroclor 1248	1924708	1935197	BA
Aroclor 1248	1924708	1935197	BA
Aroclor 1248	1924708	1935197	BA
Aroclor 1248	1924708	1935197	BA
Aroclor 1254	1264793	1287820	BA
Aroclor 1254	1264793	1287820	BA
Aroclor 1254	1264793	1287820	BA
Aroclor 1254	1264793	1287820	BA
Aroclor 1254	1264793	1287820	BA
Aroclor 1260	2322461	0	BA
Aroclor 1260	2322461	0	BA
Aroclor 1260	2322461	0	BA
Aroclor 1260	2322461	0	BA
Aroclor 1260	2322461	0	BA
Tetrachloro-m-xylene	2144480	2156722	BA
Decachlorobiphenyl	2142899	2142899	

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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.: 40157703

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.: 40157703

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.: 40157703

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.

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157703

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.: 40157703

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

LAB FILE ID

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

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

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

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157703

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.: 40157703

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

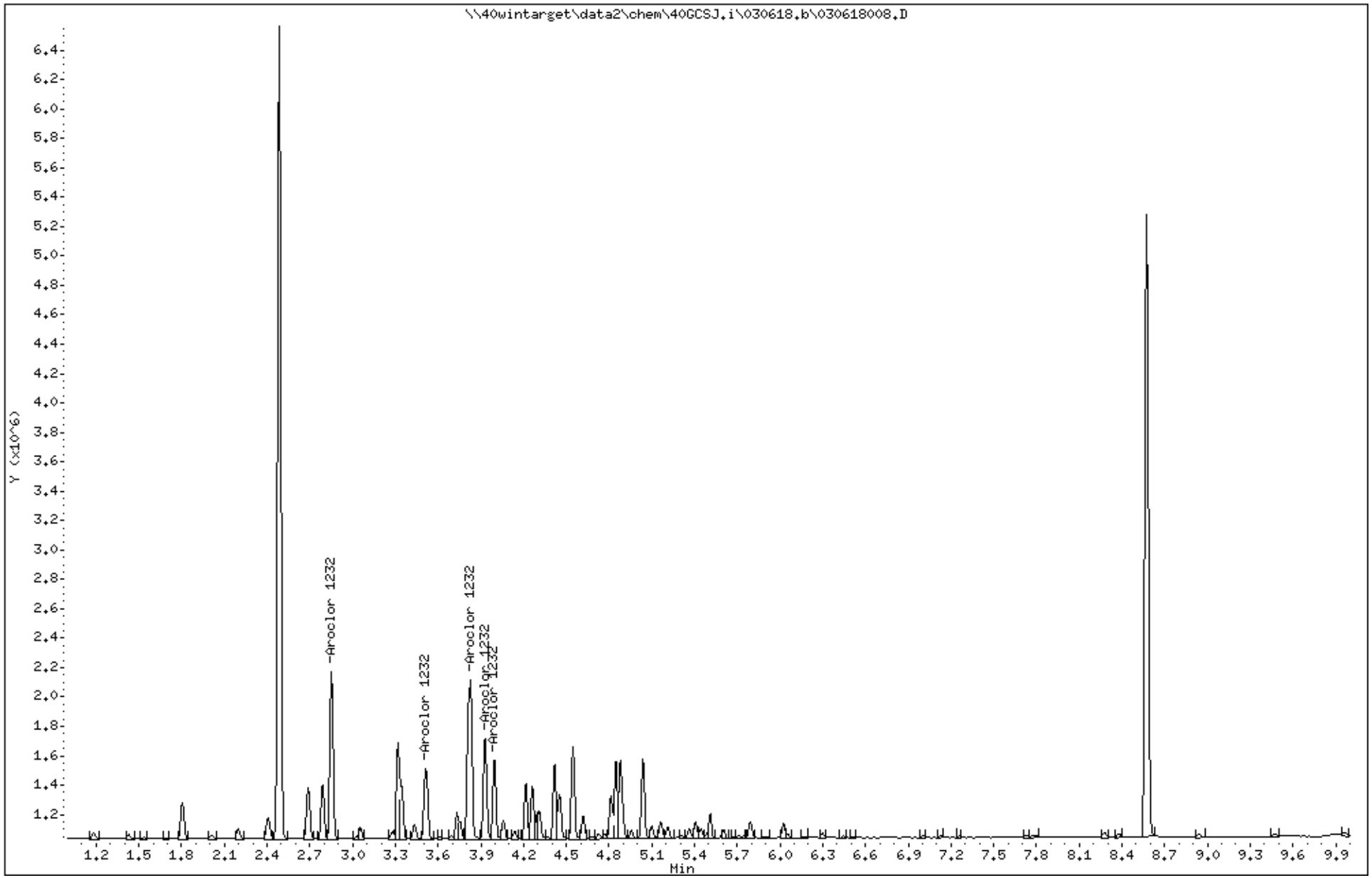
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

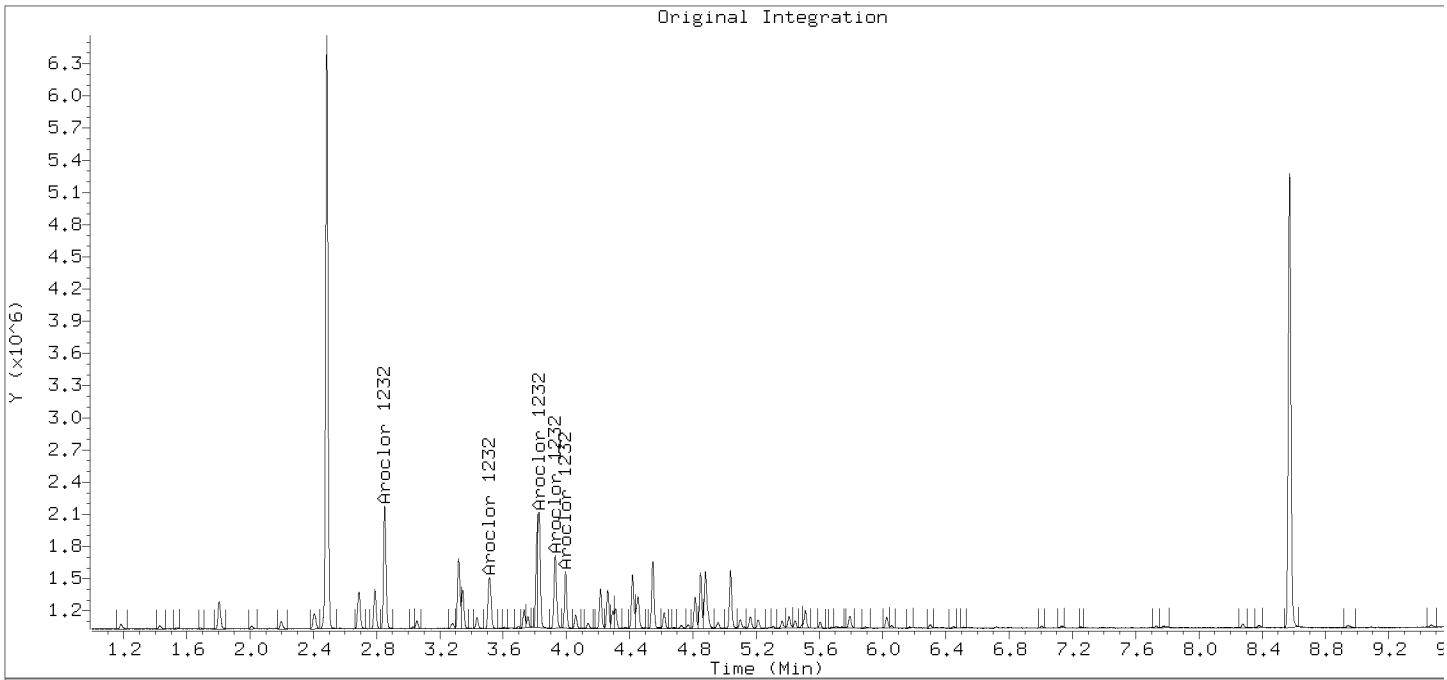
Column phase: ZB-1ms

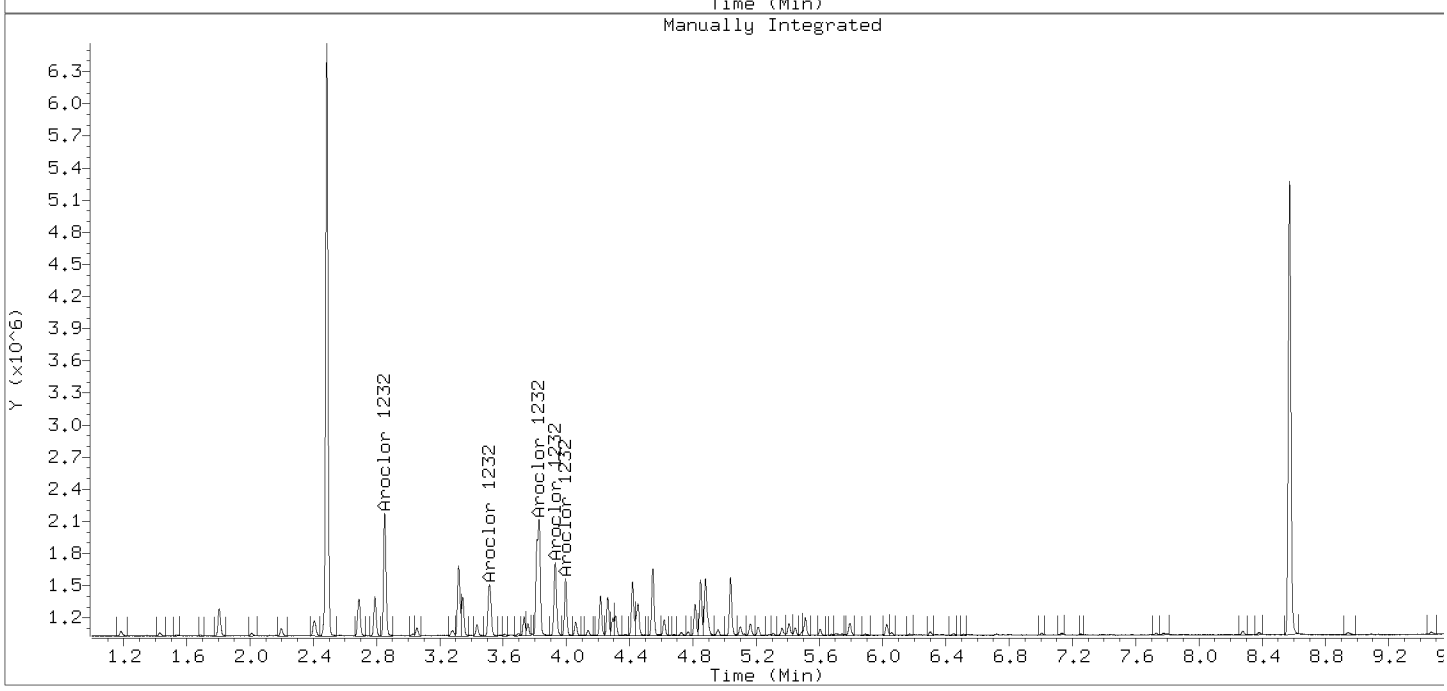
Instrument: 40GCSJ.i

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

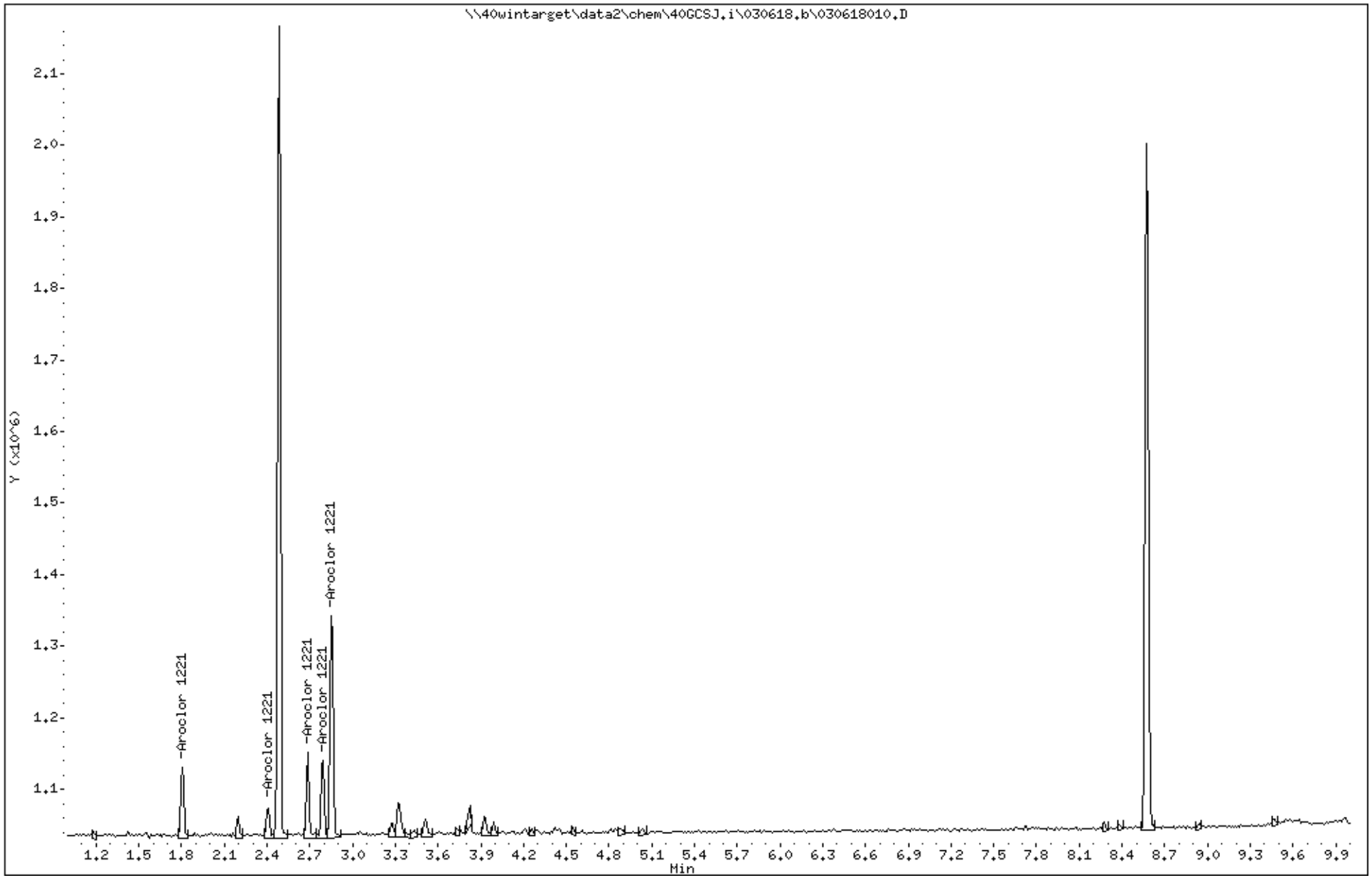
M - Compound response manually integrated.

Review Codes Legend

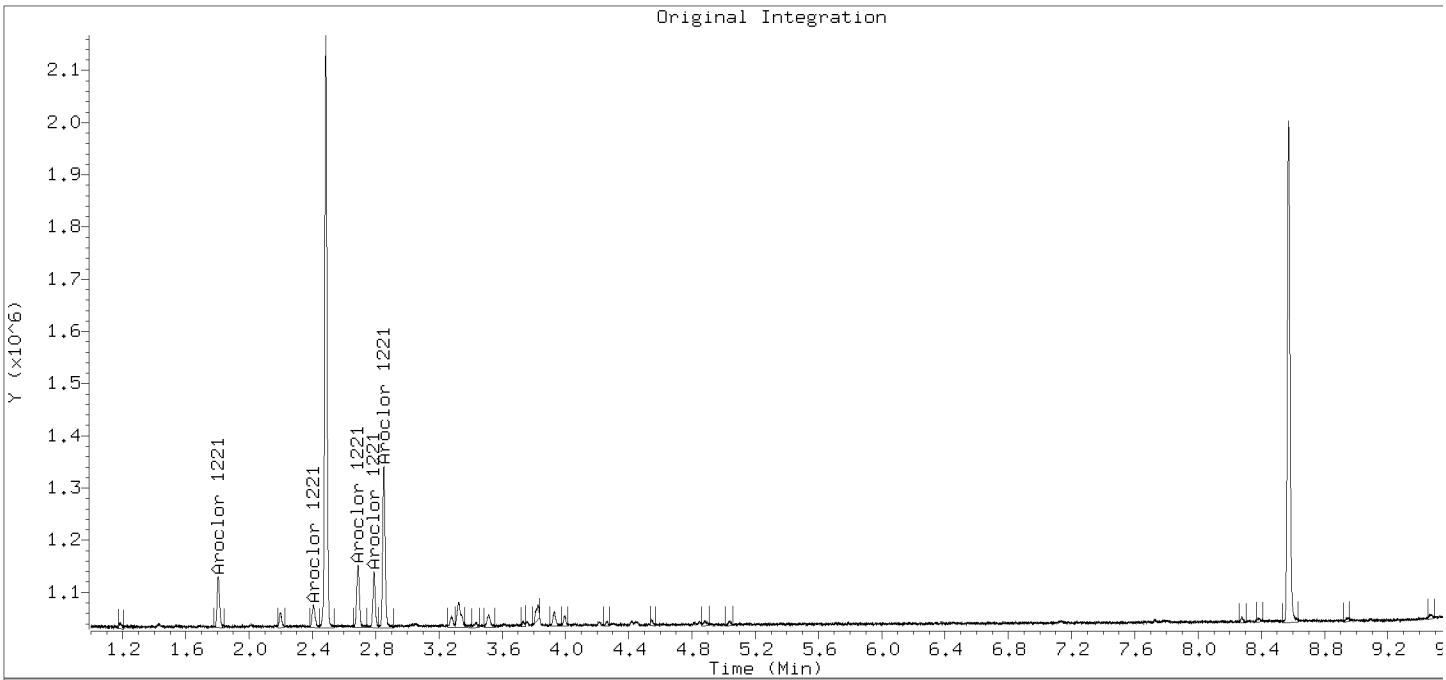
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

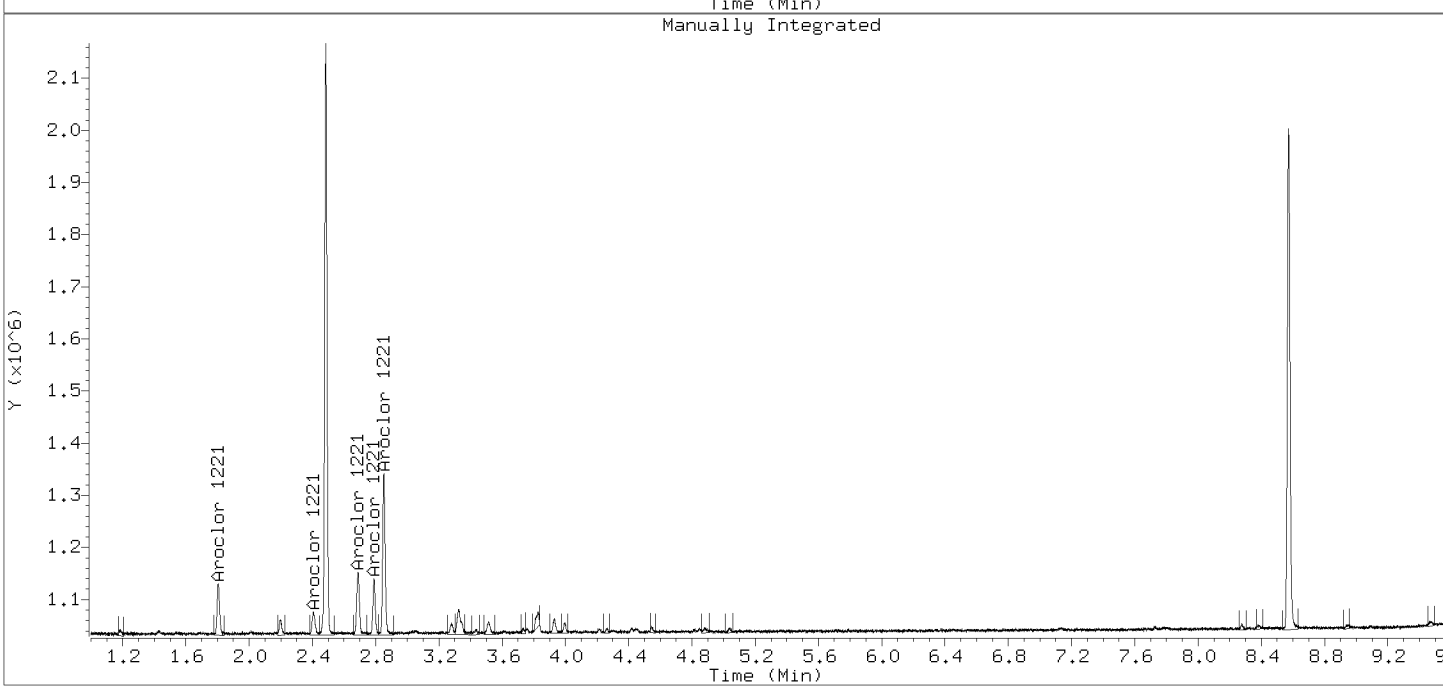
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

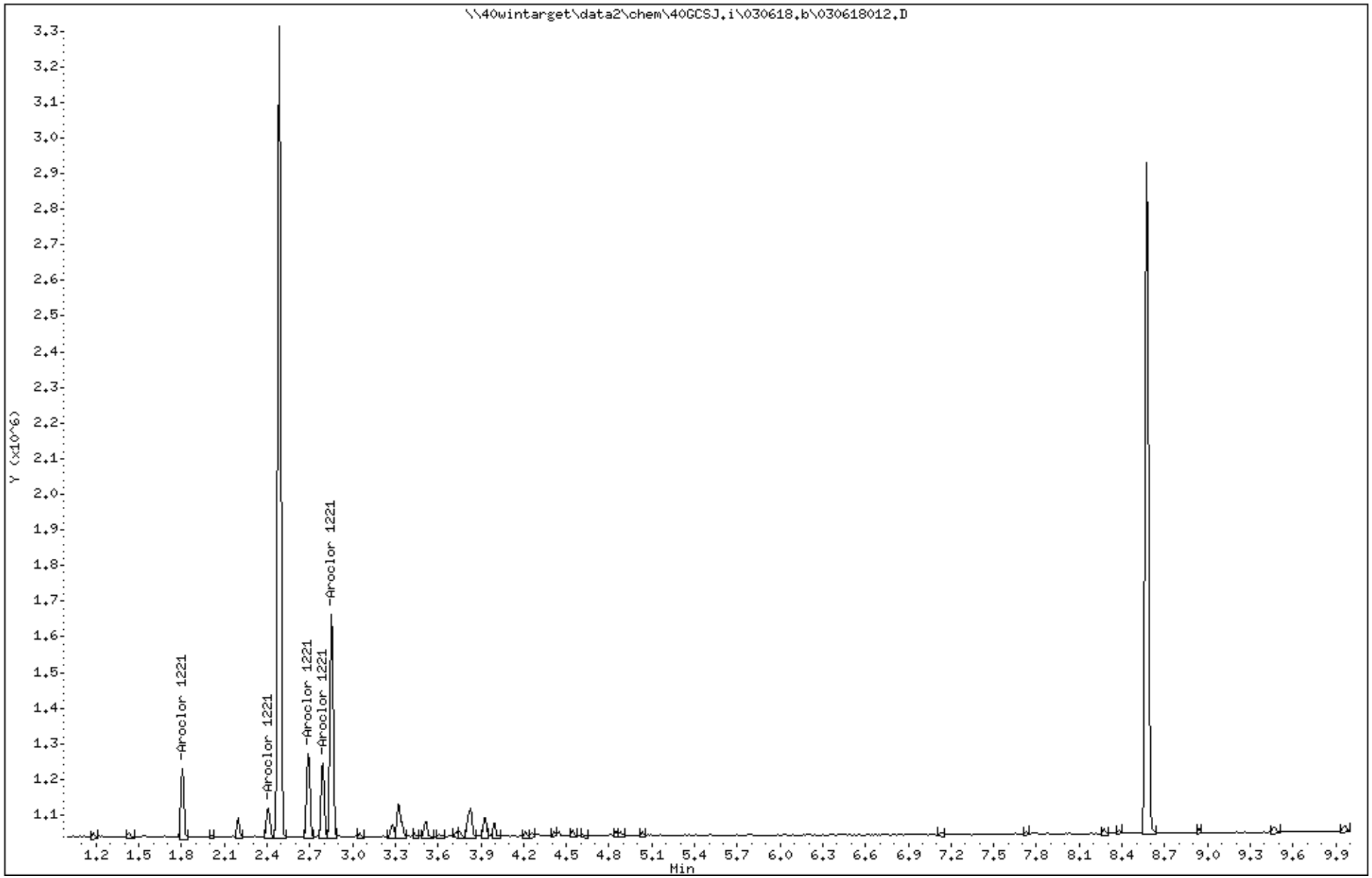
M - Compound response manually integrated.

Review Codes Legend

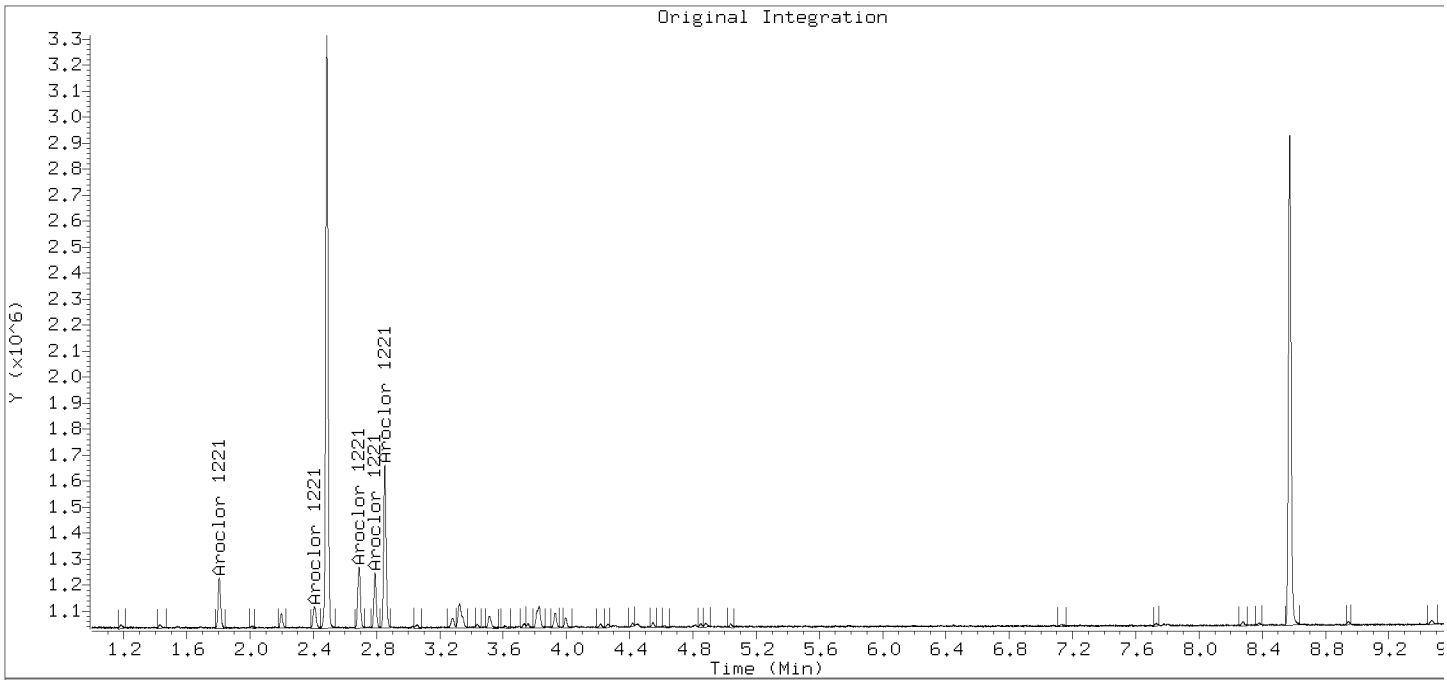
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

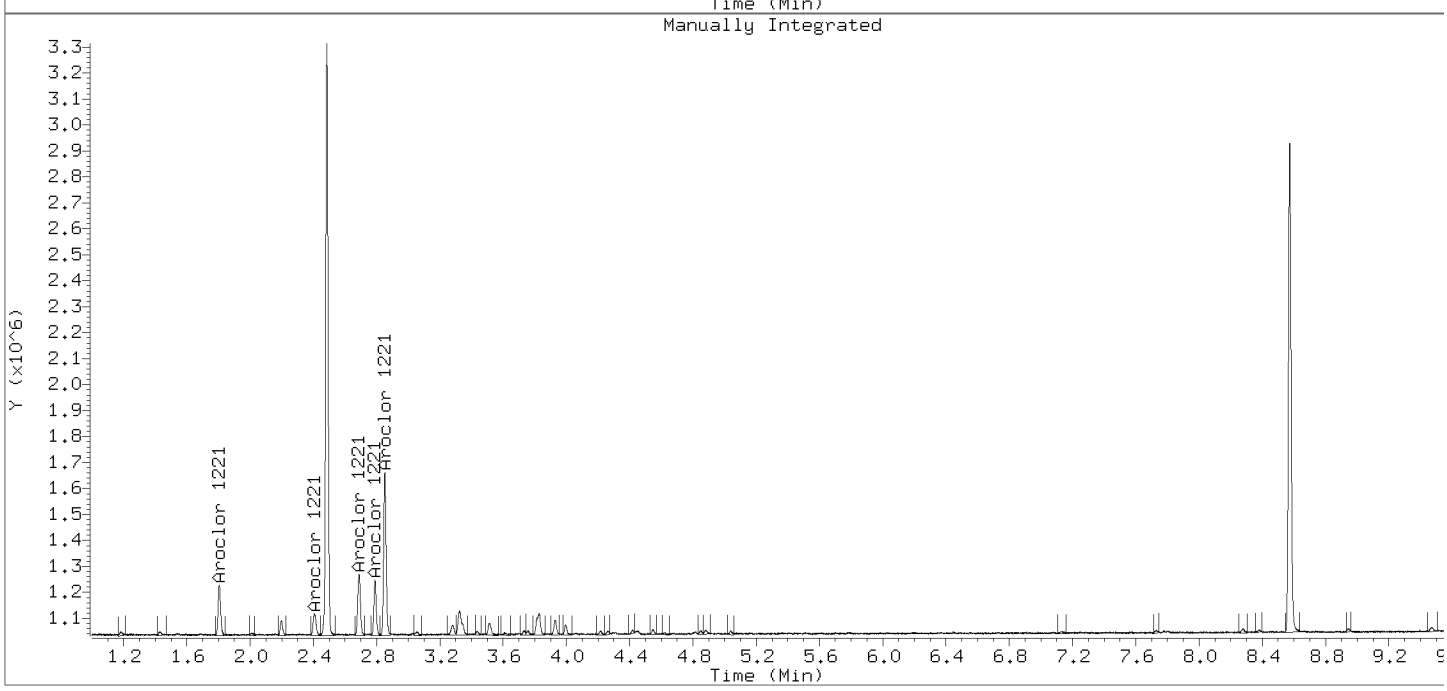
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

Total unknown % area = 79

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SW846-8082

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

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

QC Flag Legend

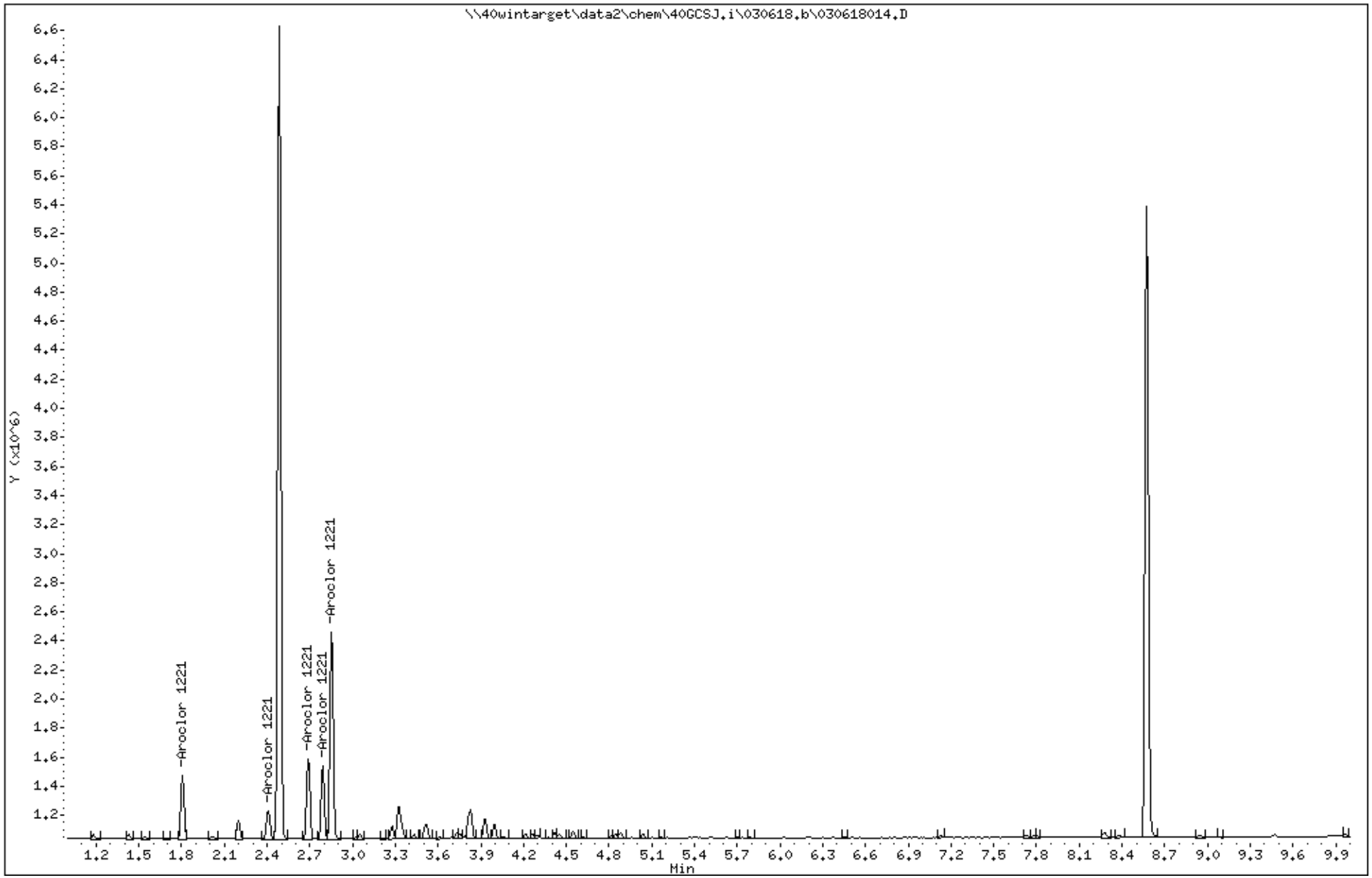
M - Compound response manually integrated.

Review Codes Legend

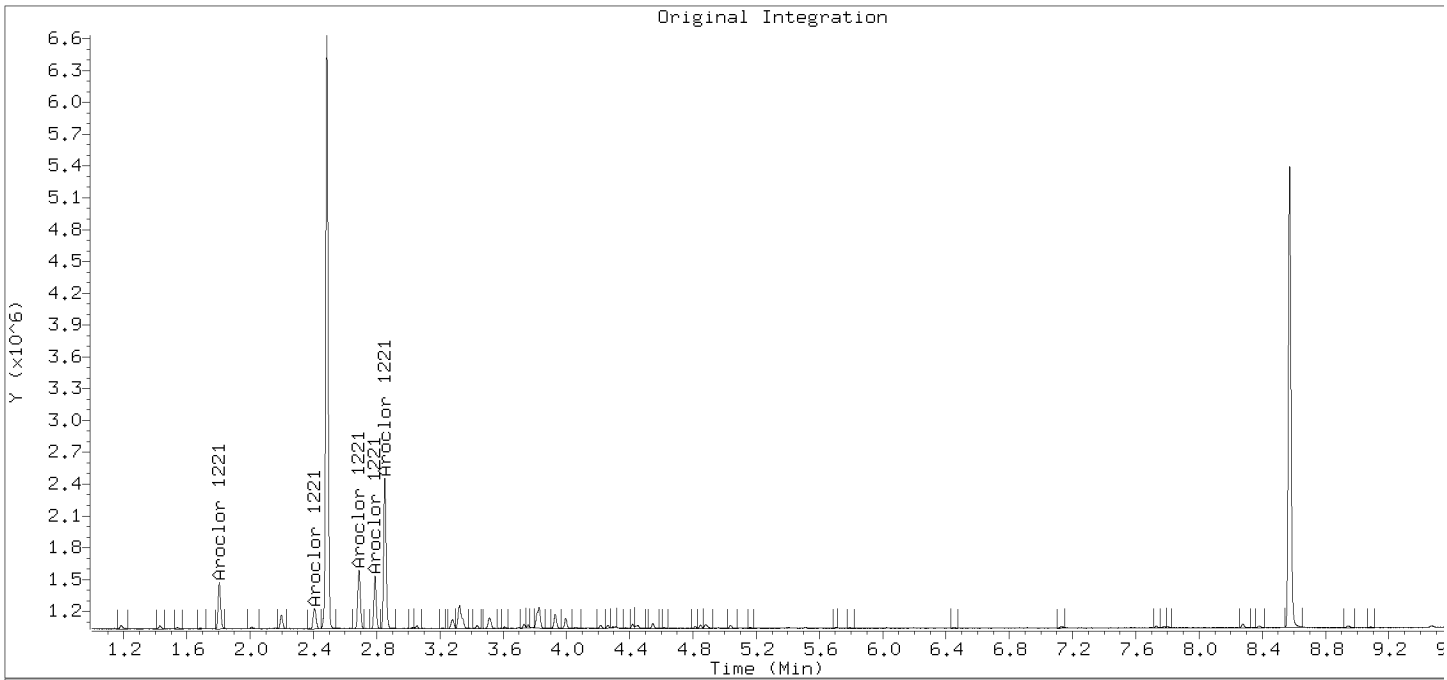
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

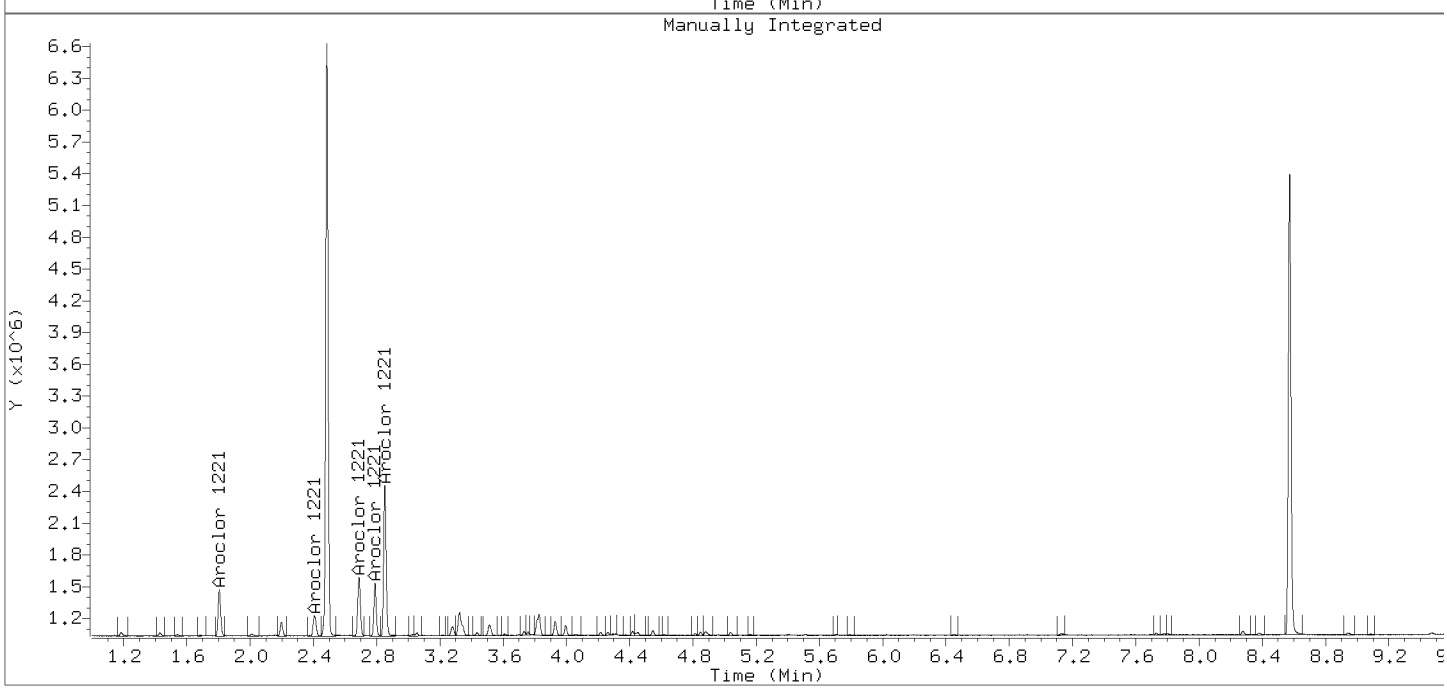
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

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SW846-8082

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

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

QC Flag Legend

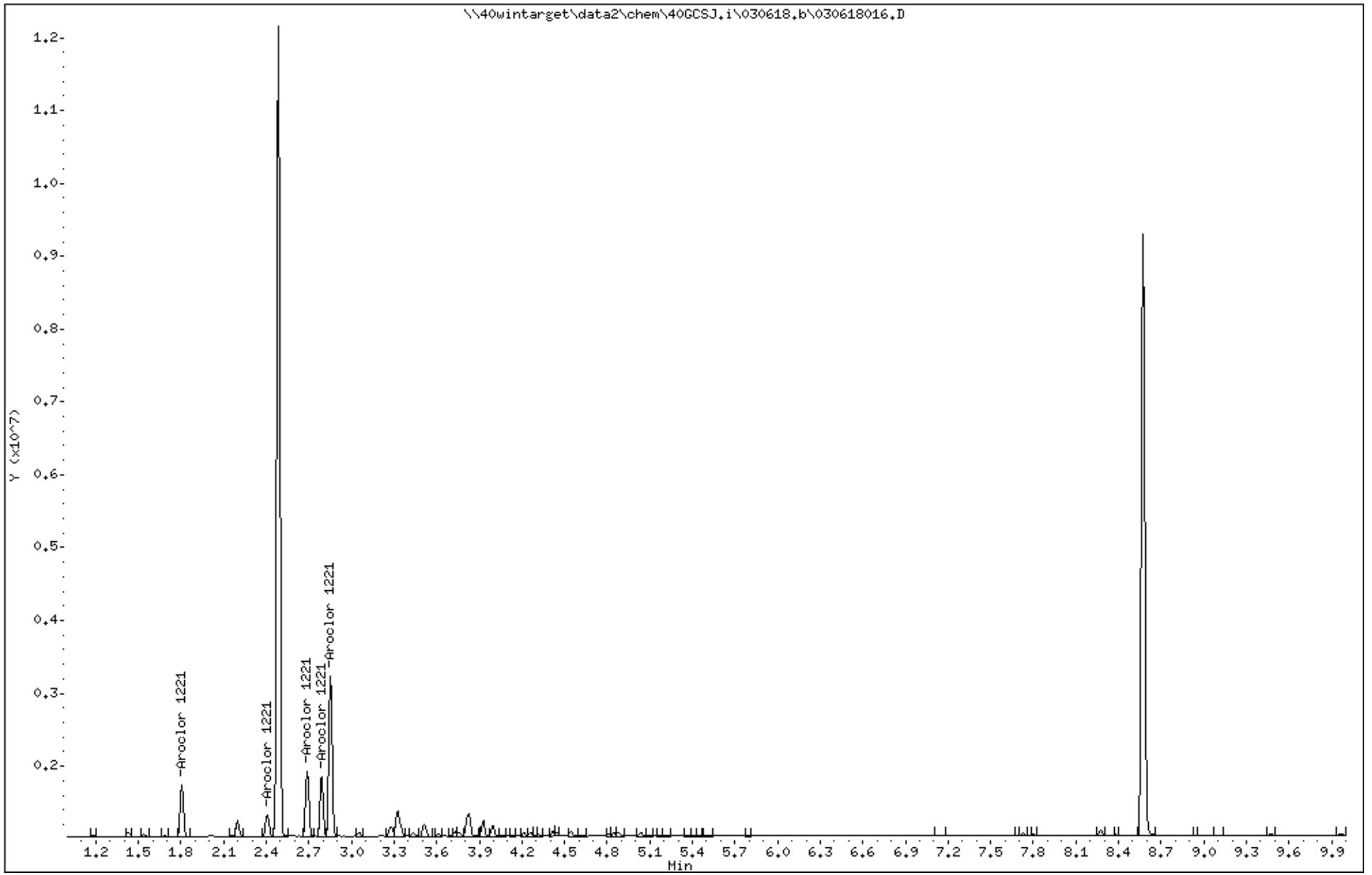
M - Compound response manually integrated.

Review Codes Legend

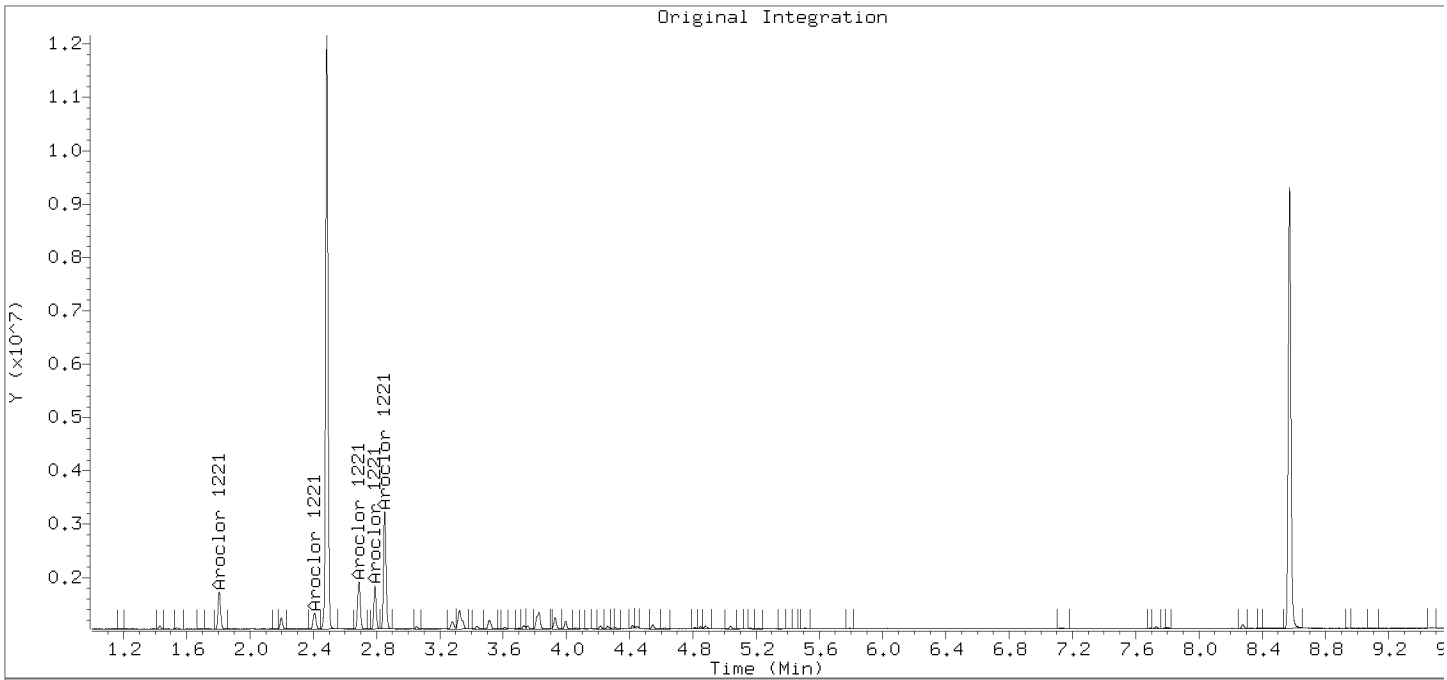
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

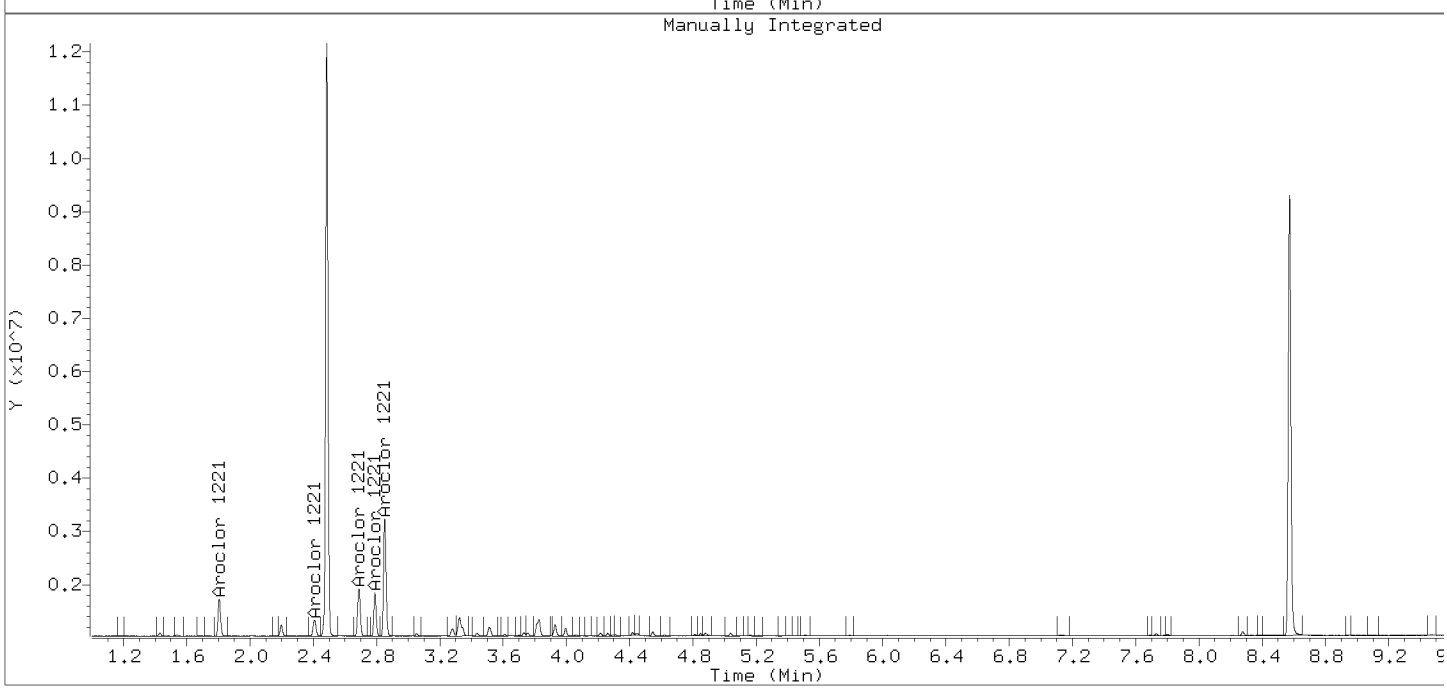
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

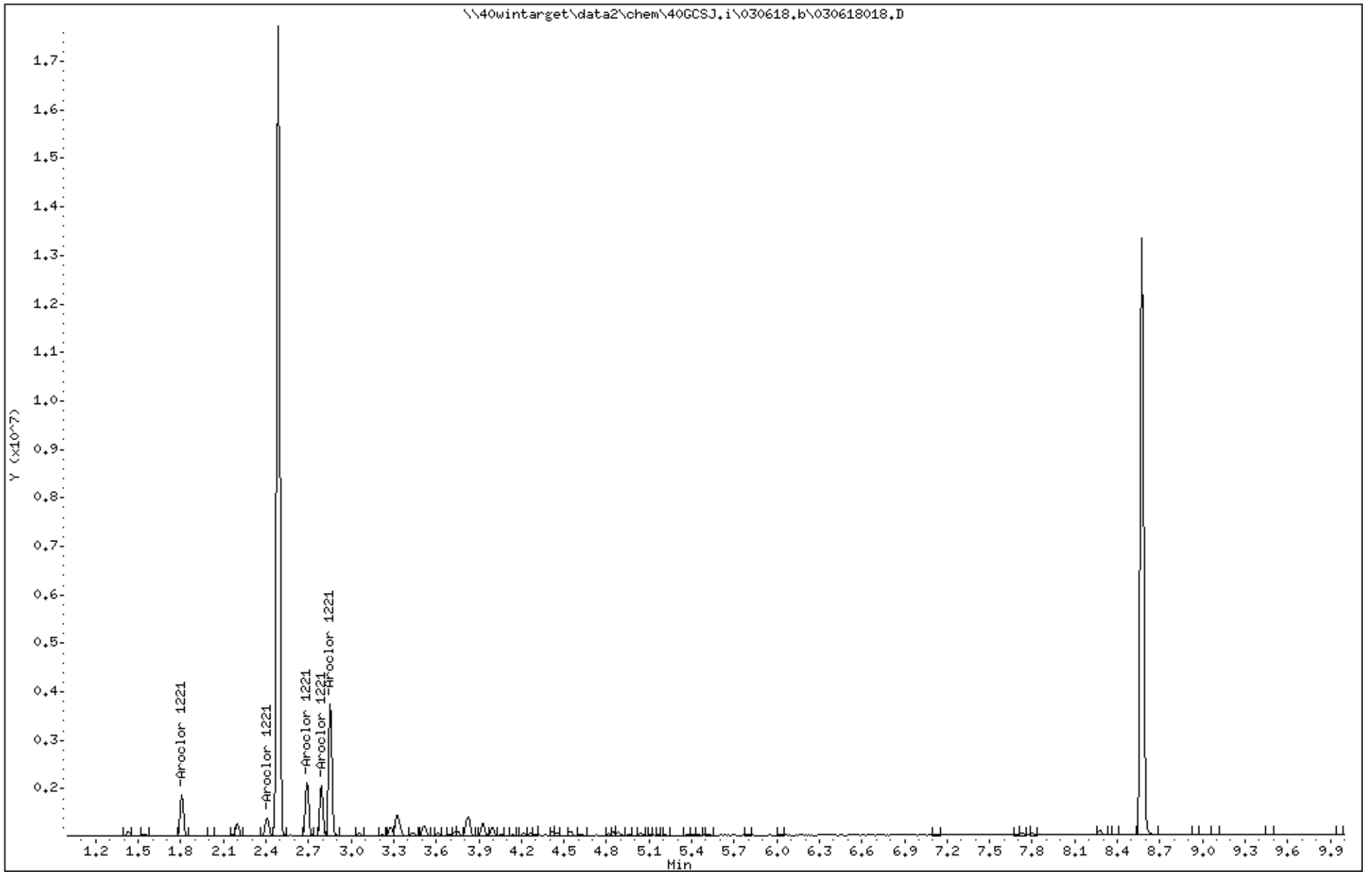
M - Compound response manually integrated.

Review Codes Legend

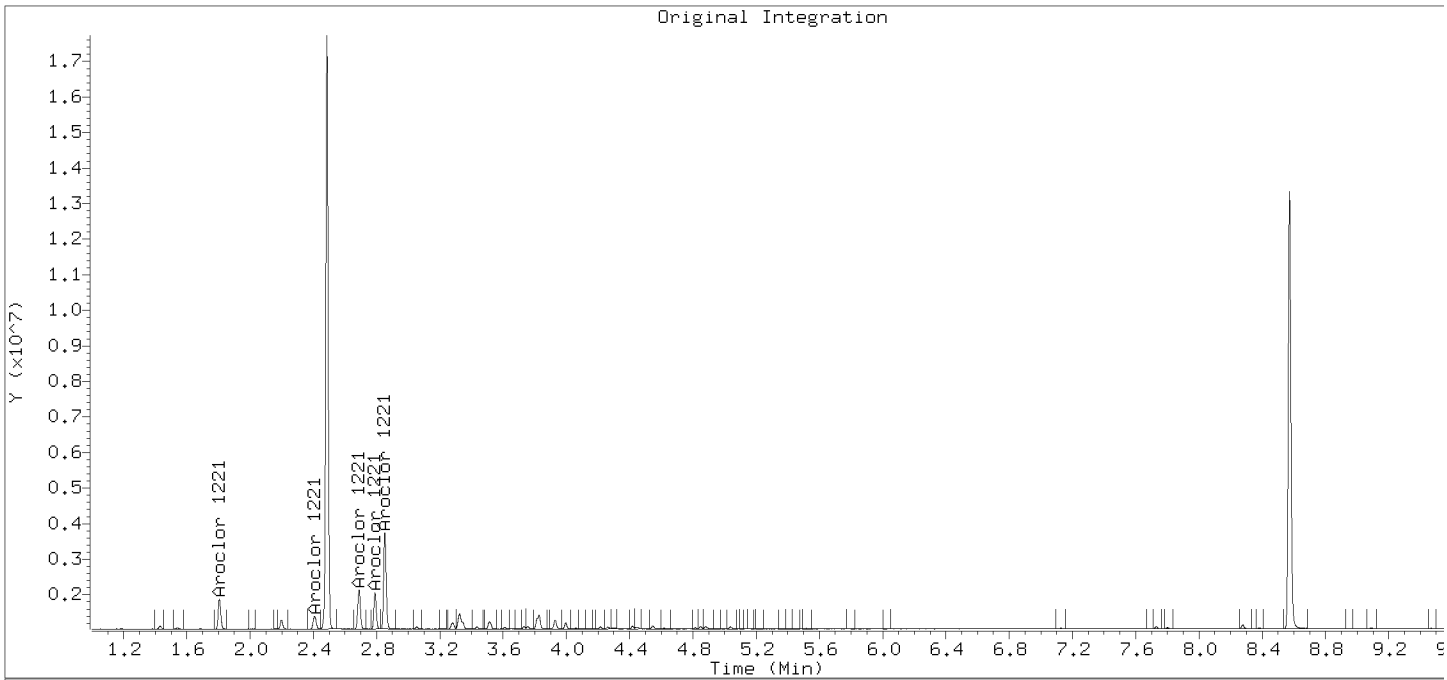
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

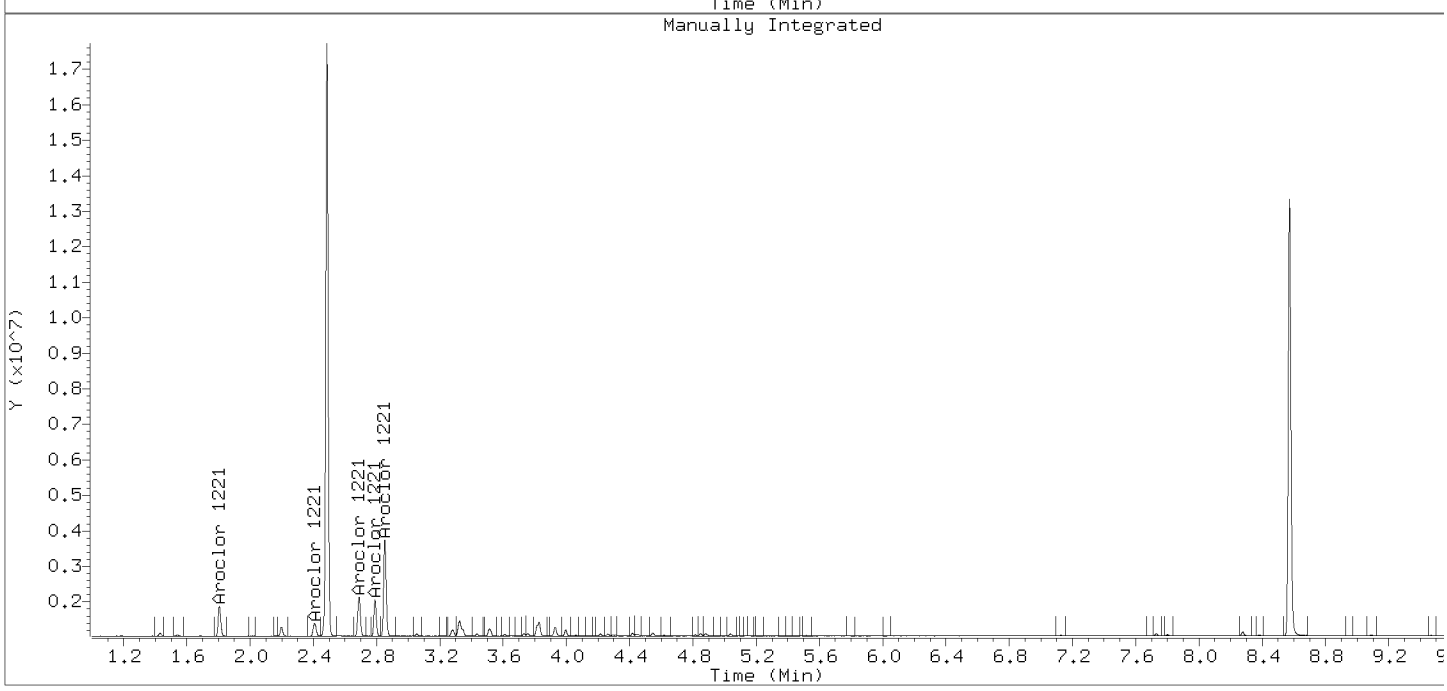
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

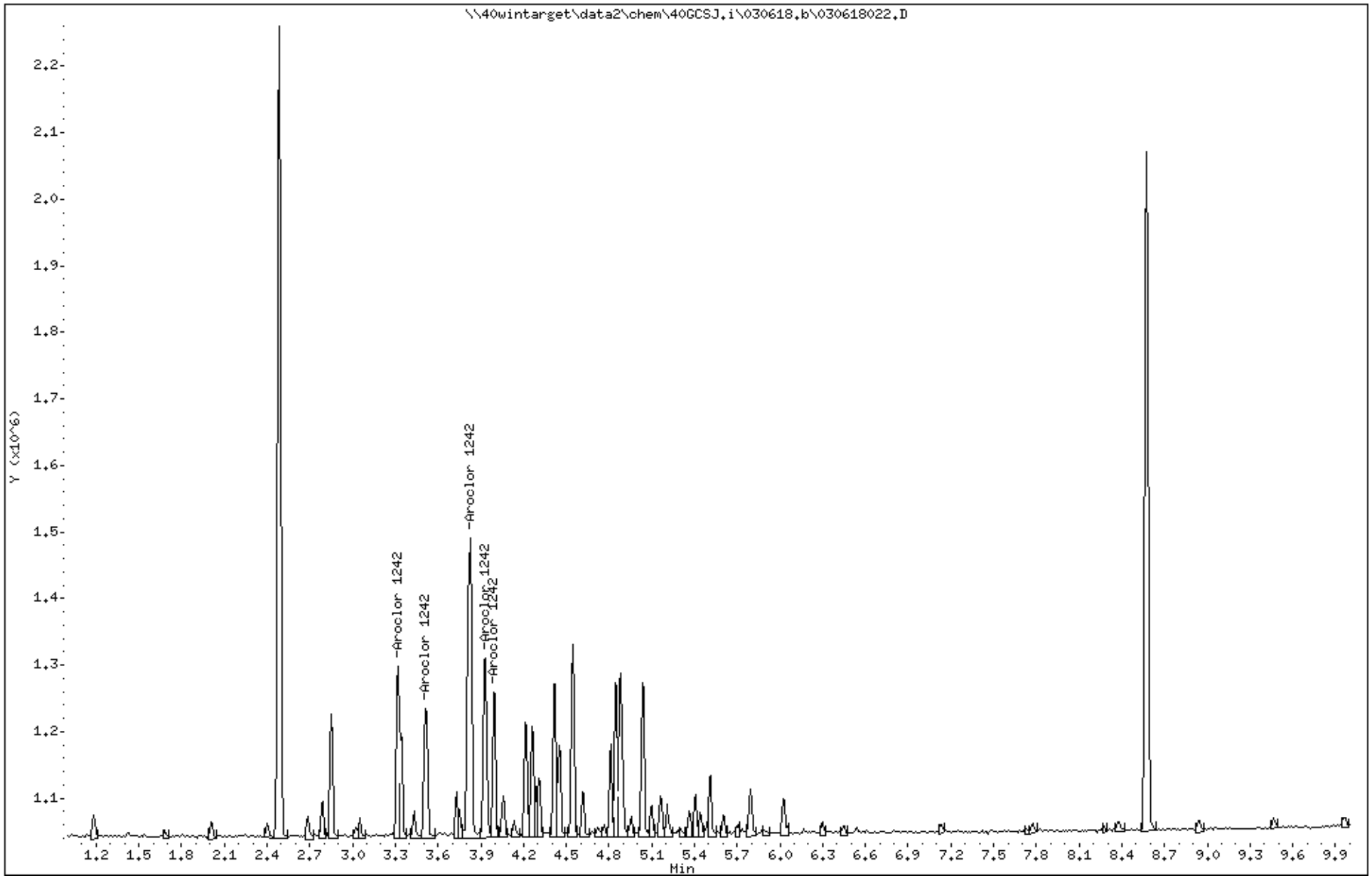
M - Compound response manually integrated.

Review Codes Legend

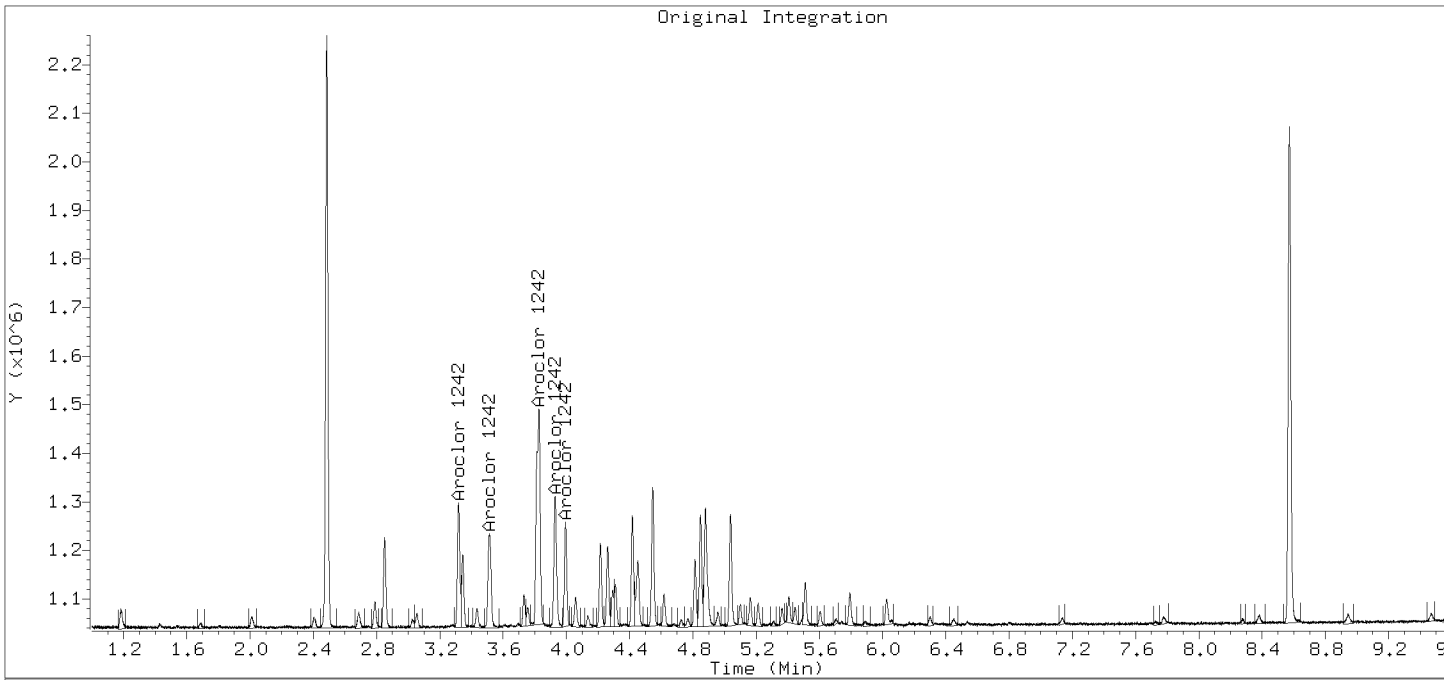
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

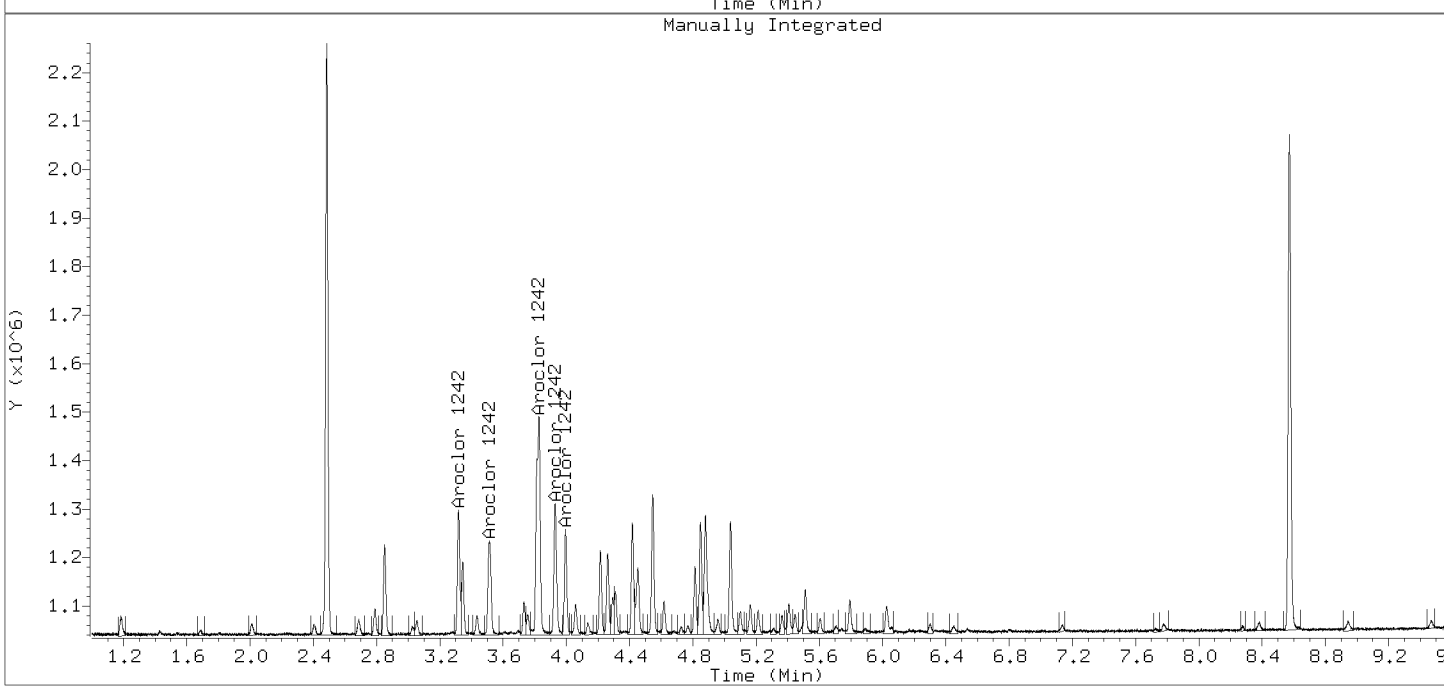
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

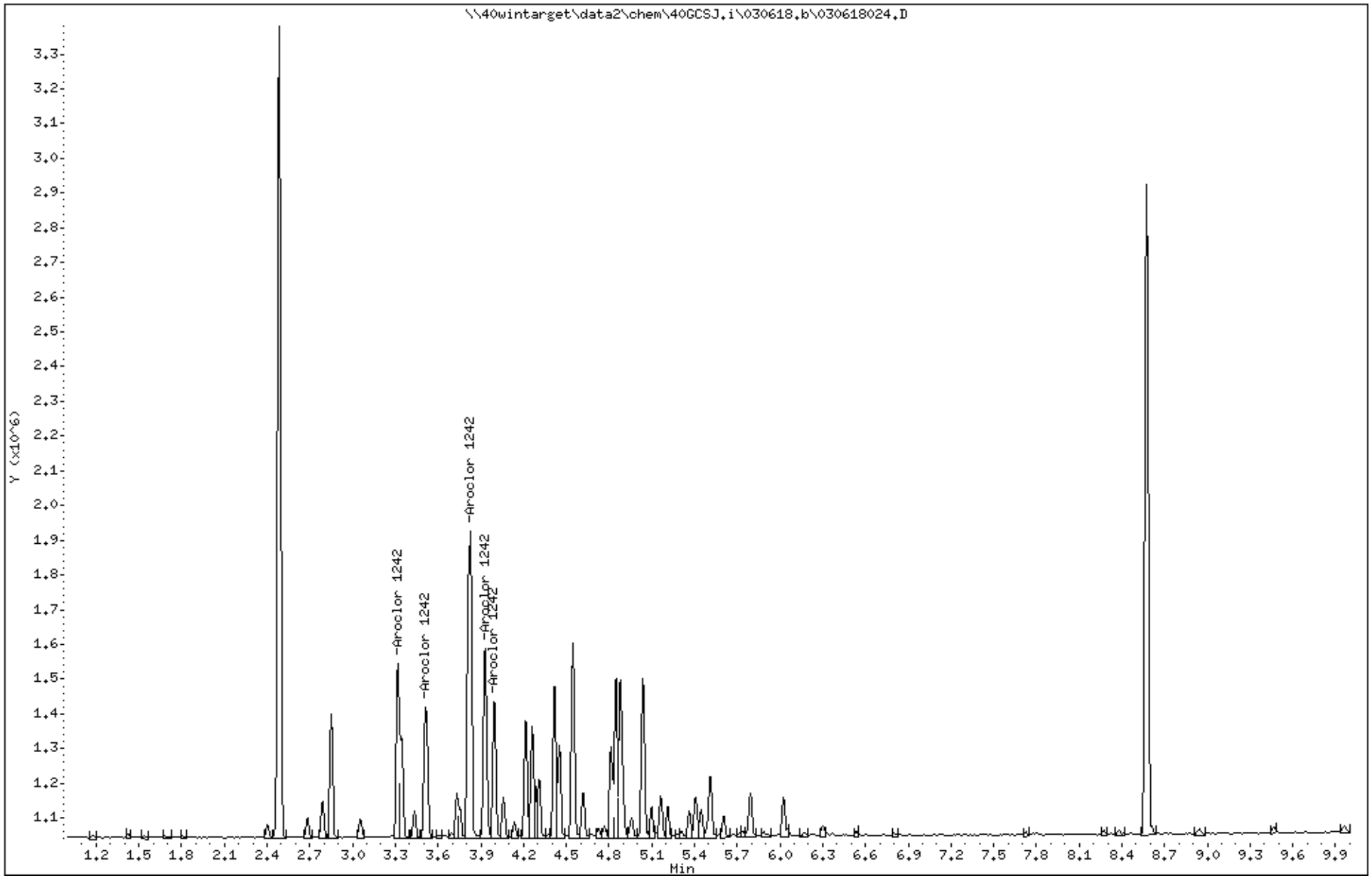
M - Compound response manually integrated.

Review Codes Legend

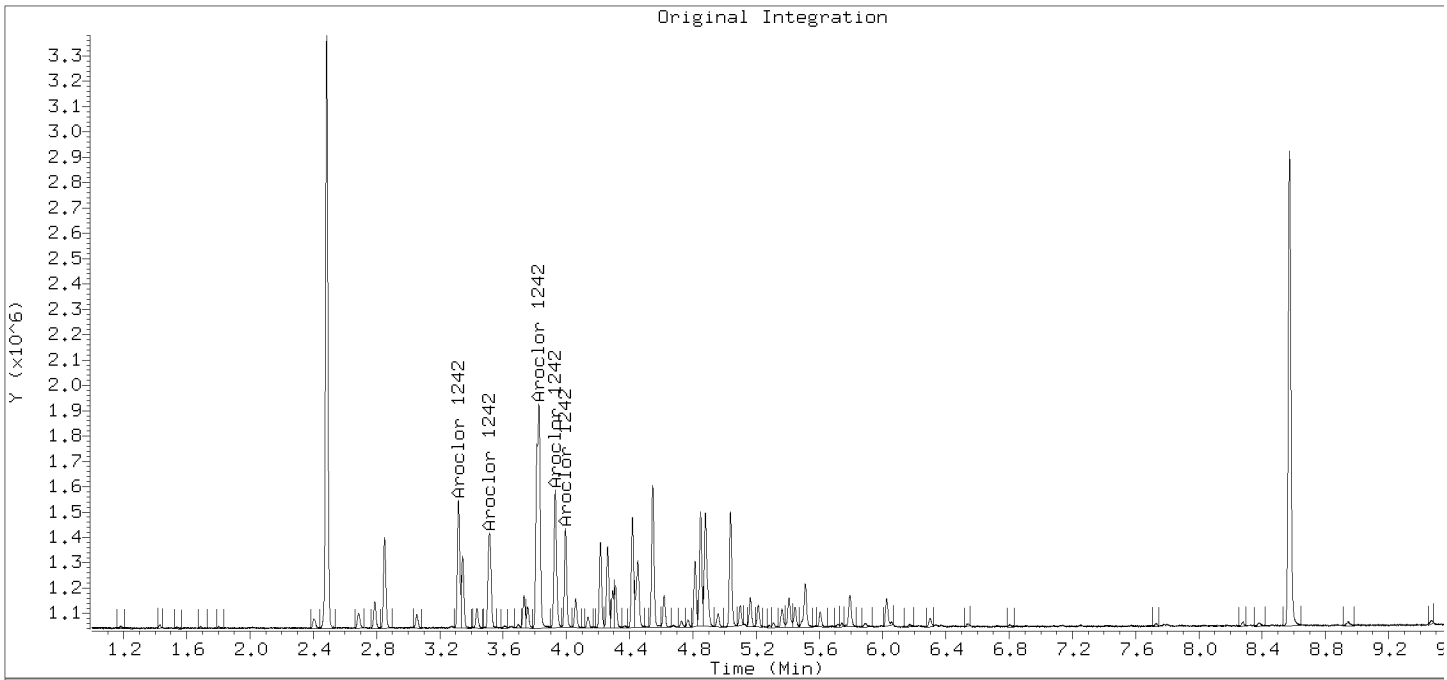
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

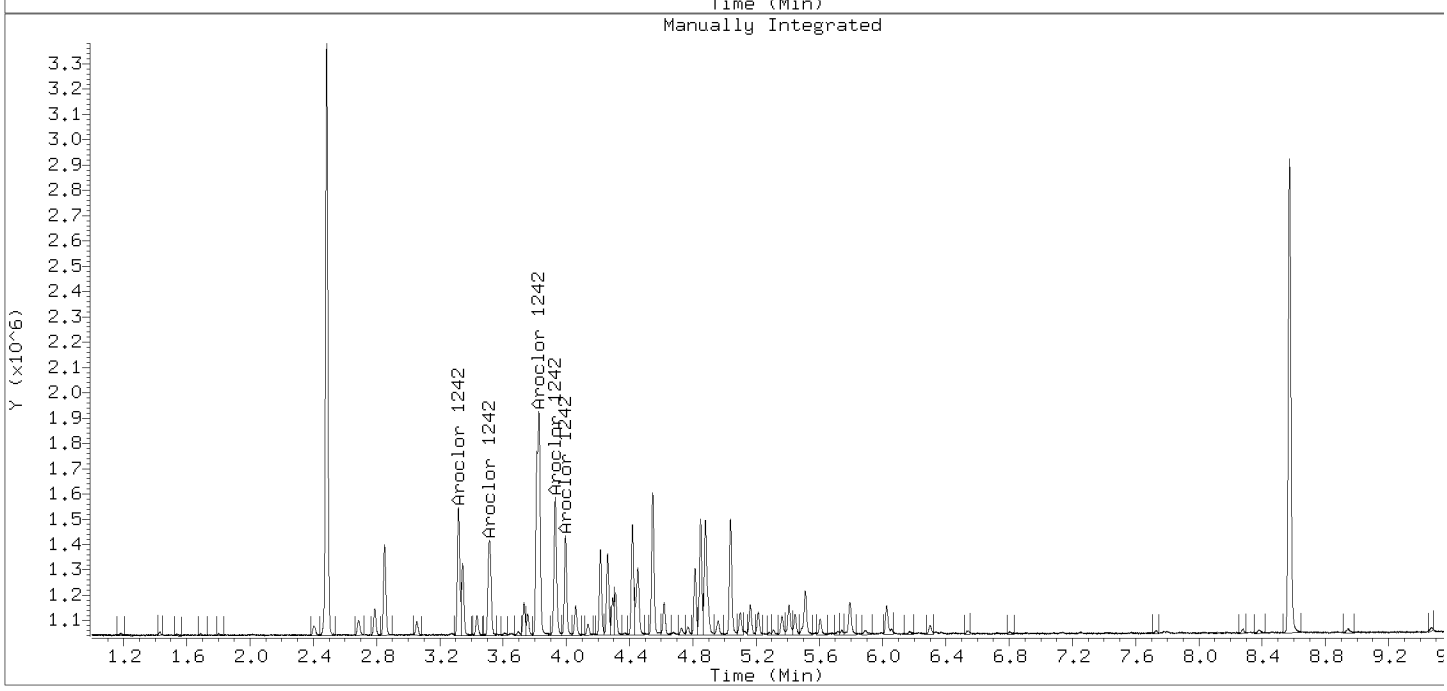
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

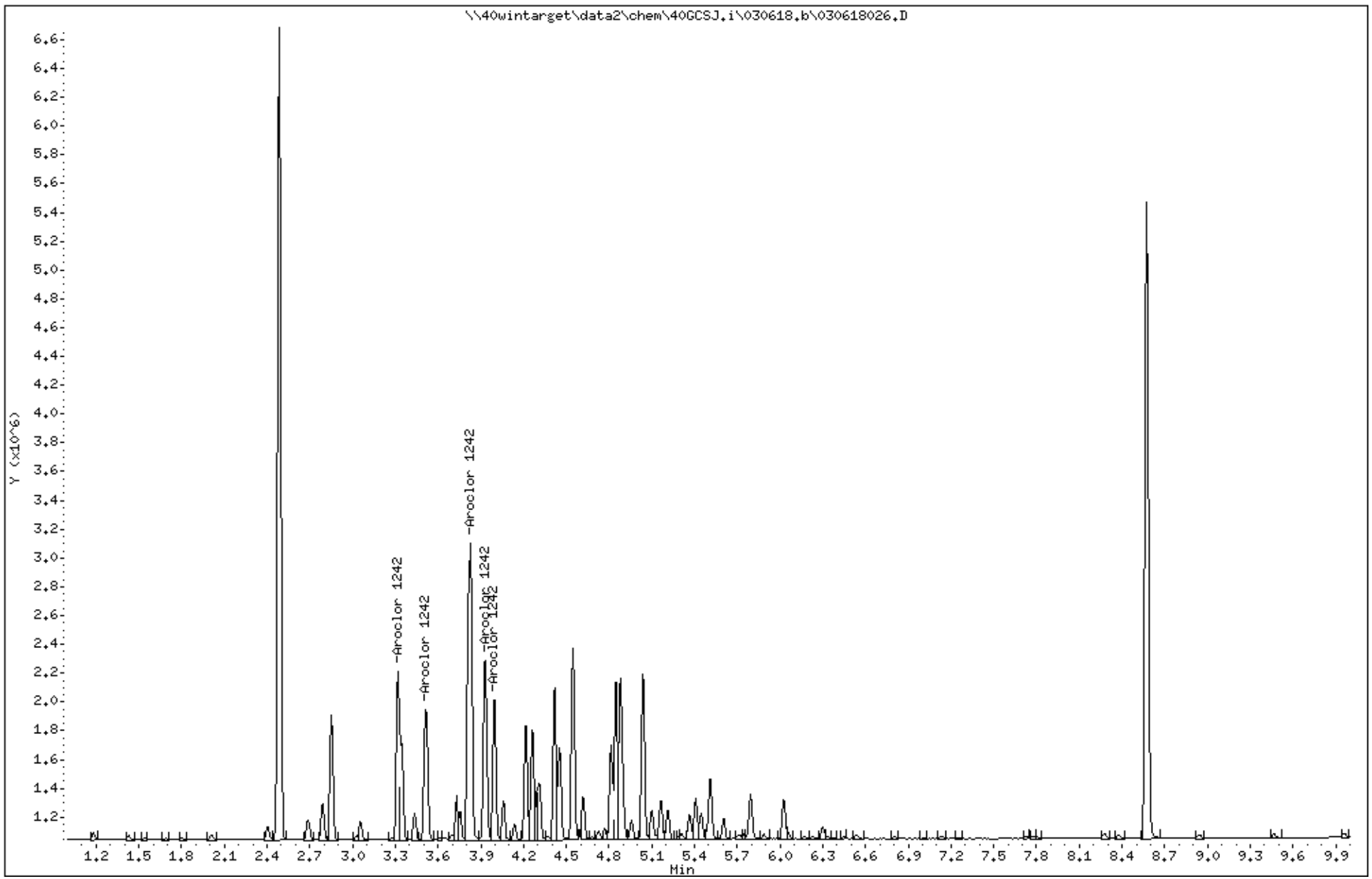
M - Compound response manually integrated.

Review Codes Legend

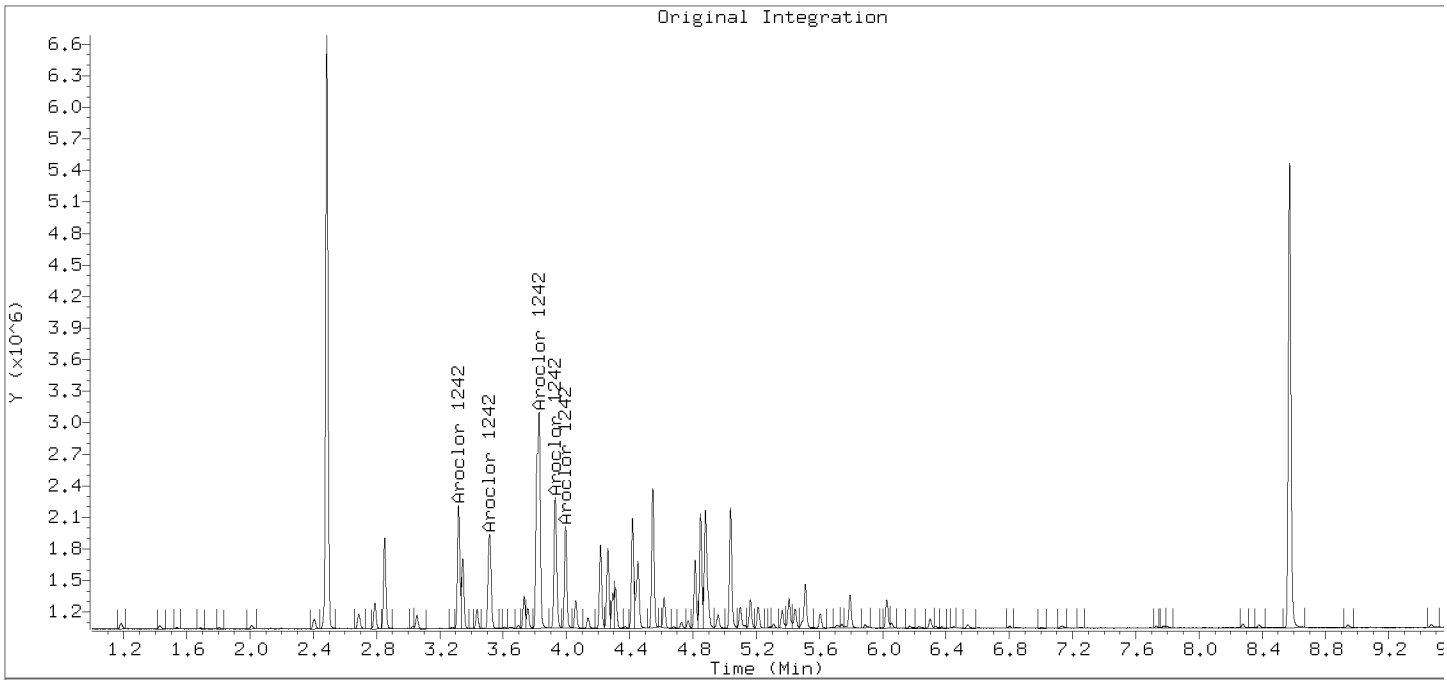
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

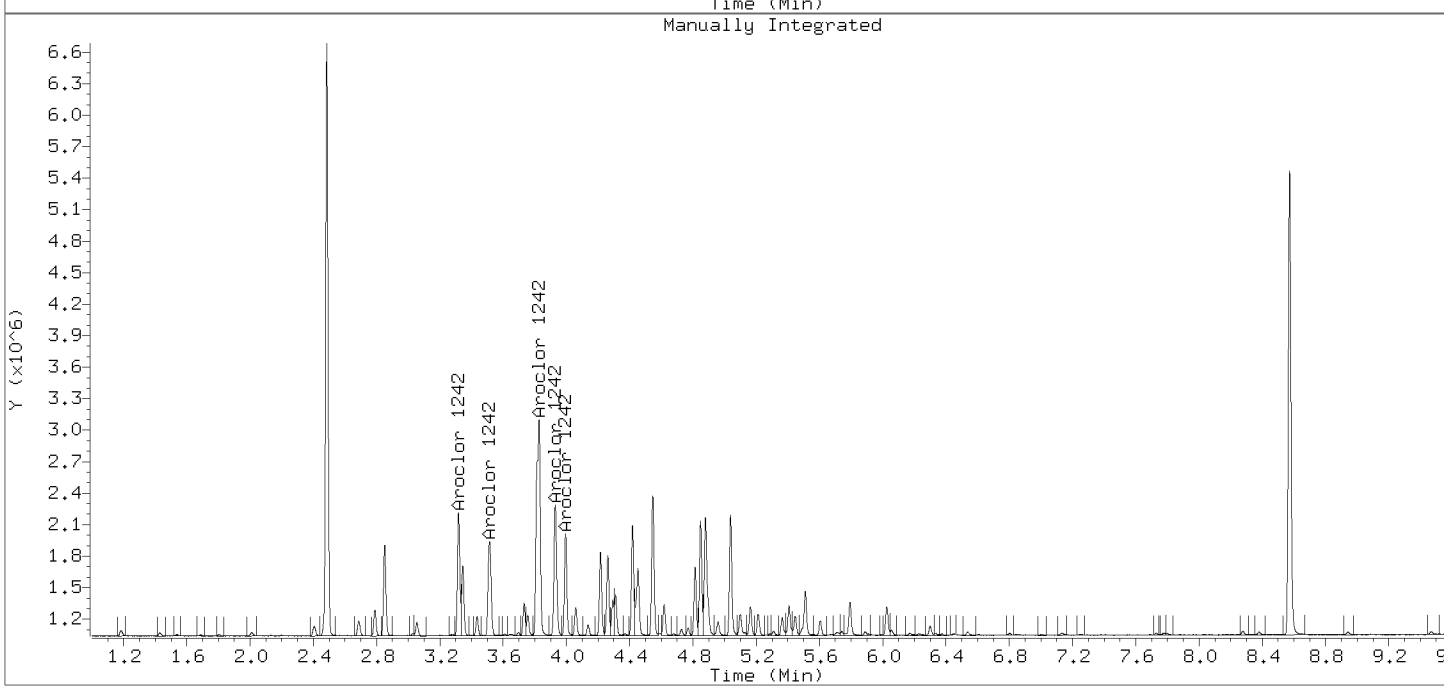
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

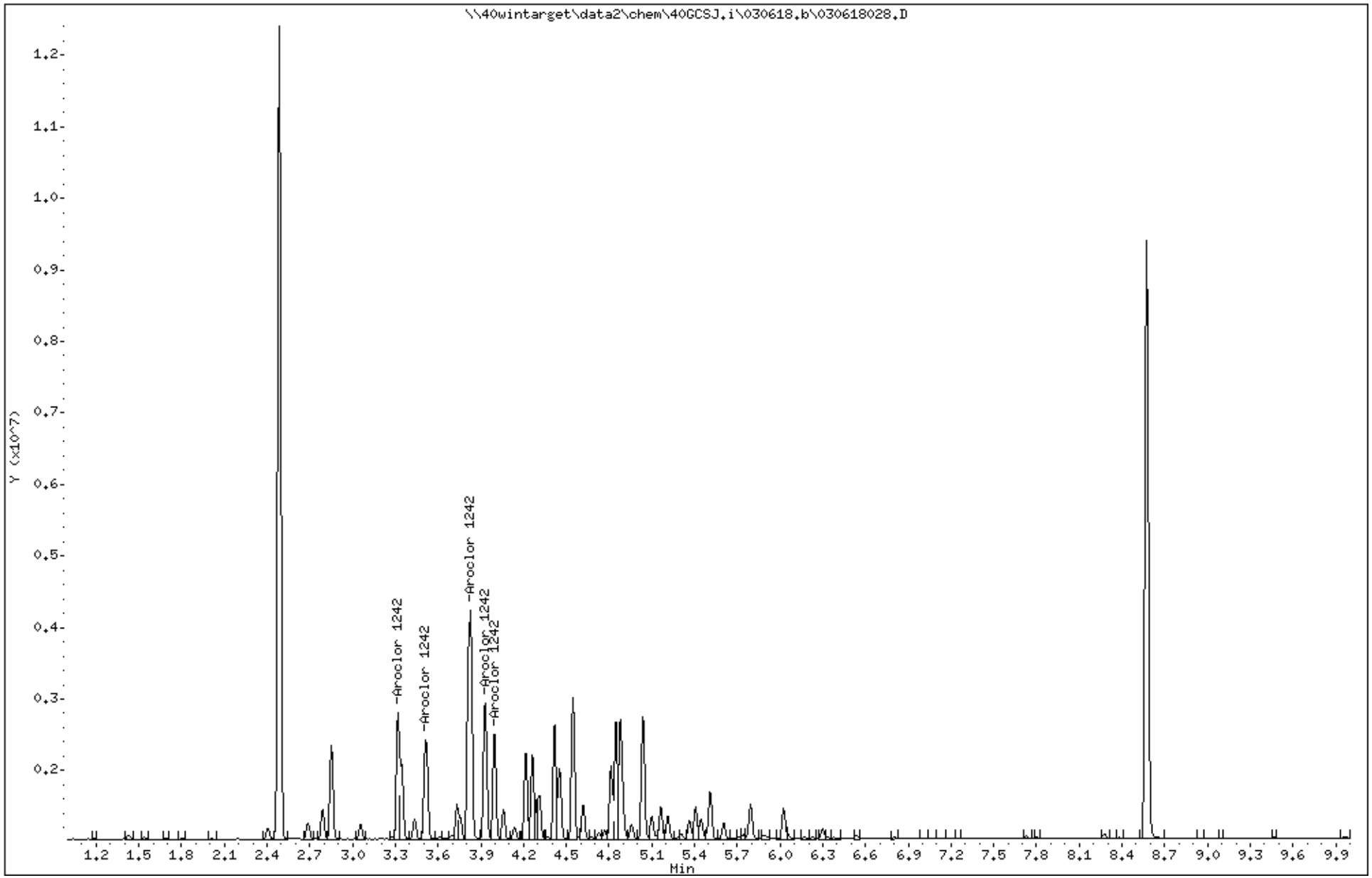
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

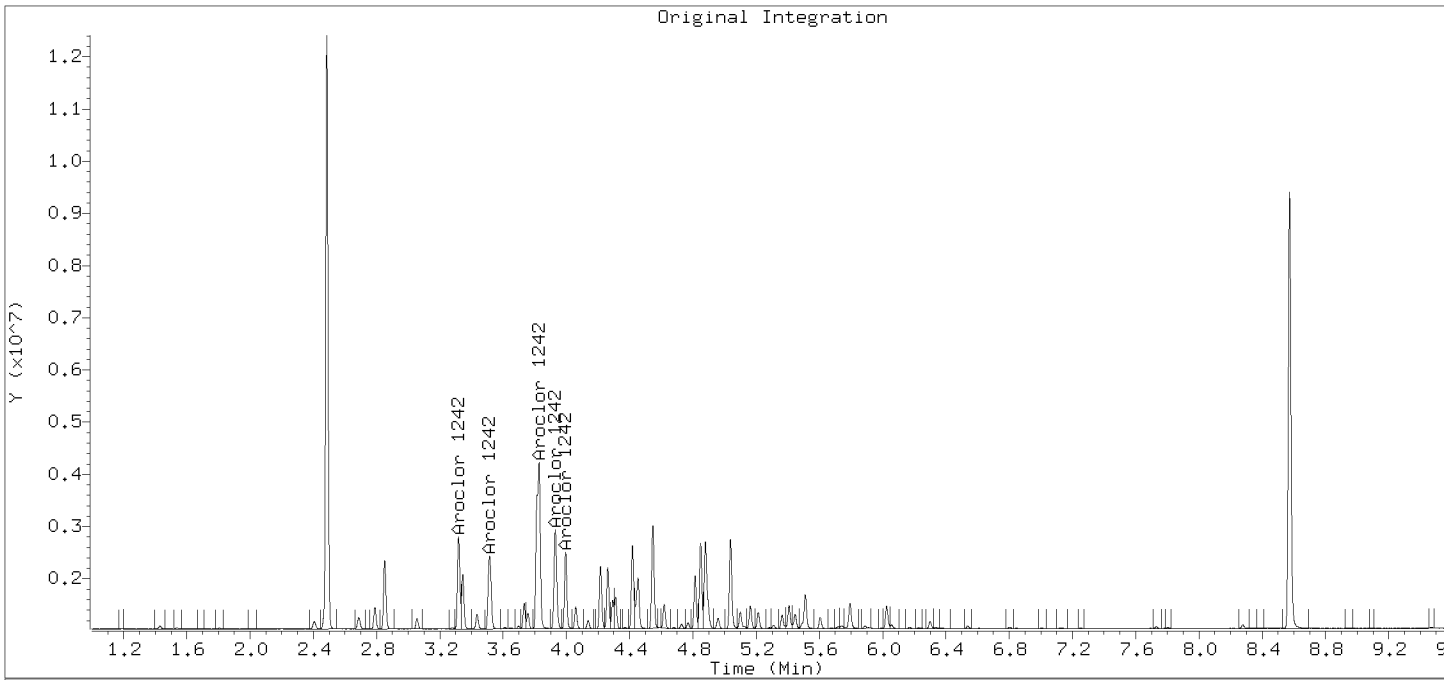
Operator: BLM

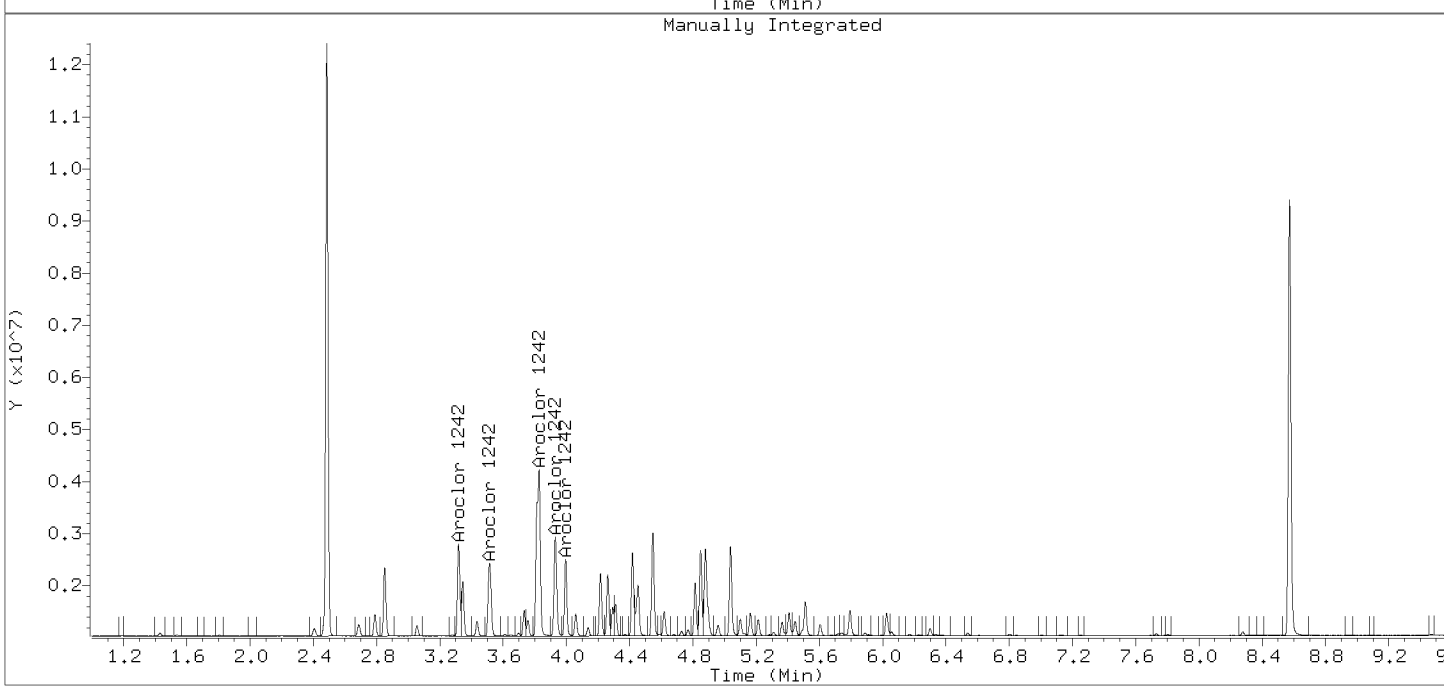
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

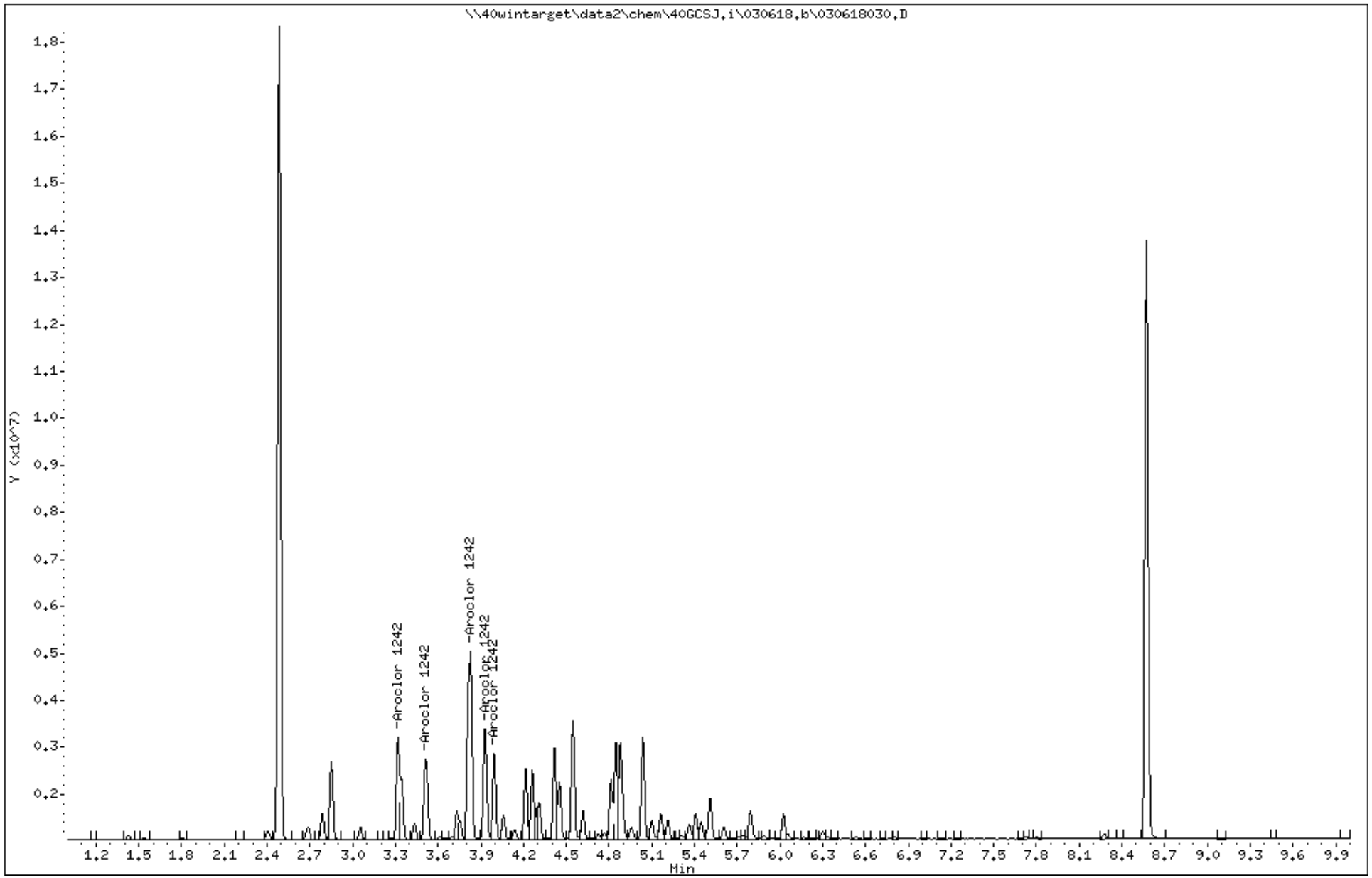
M - Compound response manually integrated.

Review Codes Legend

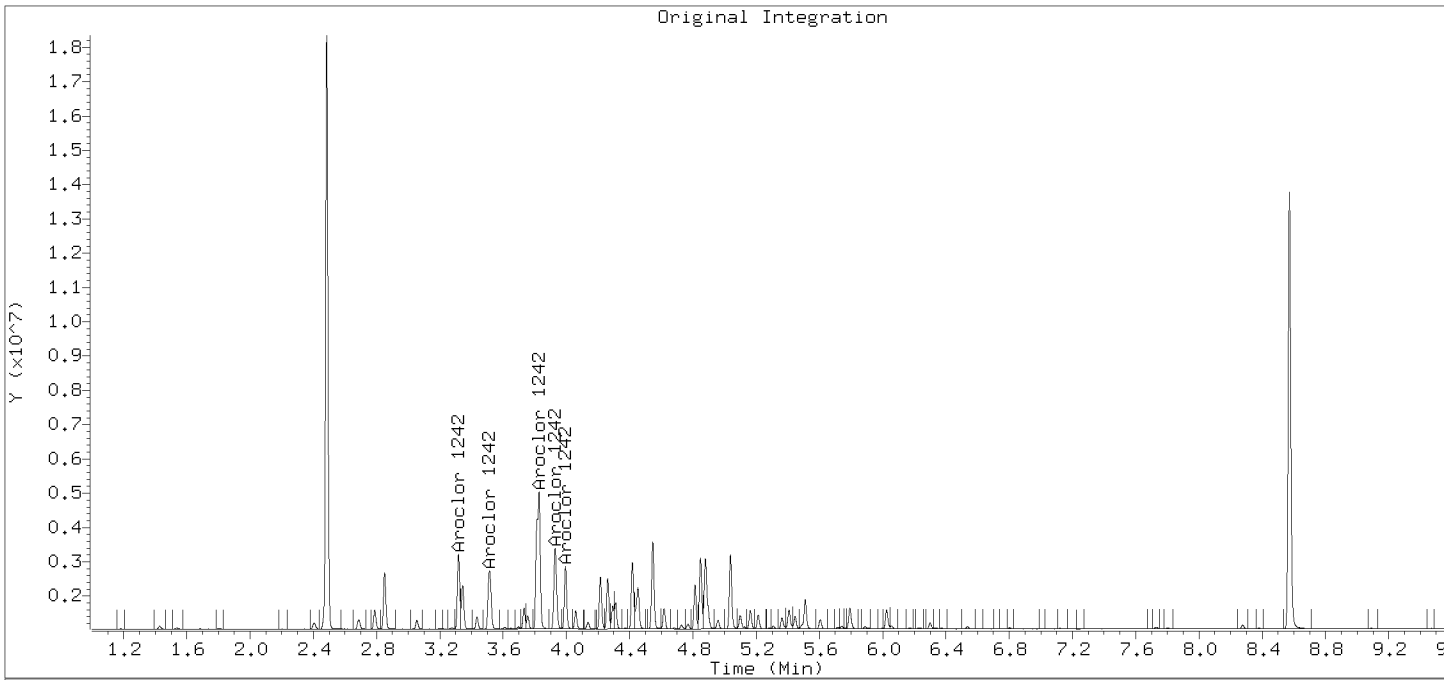
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

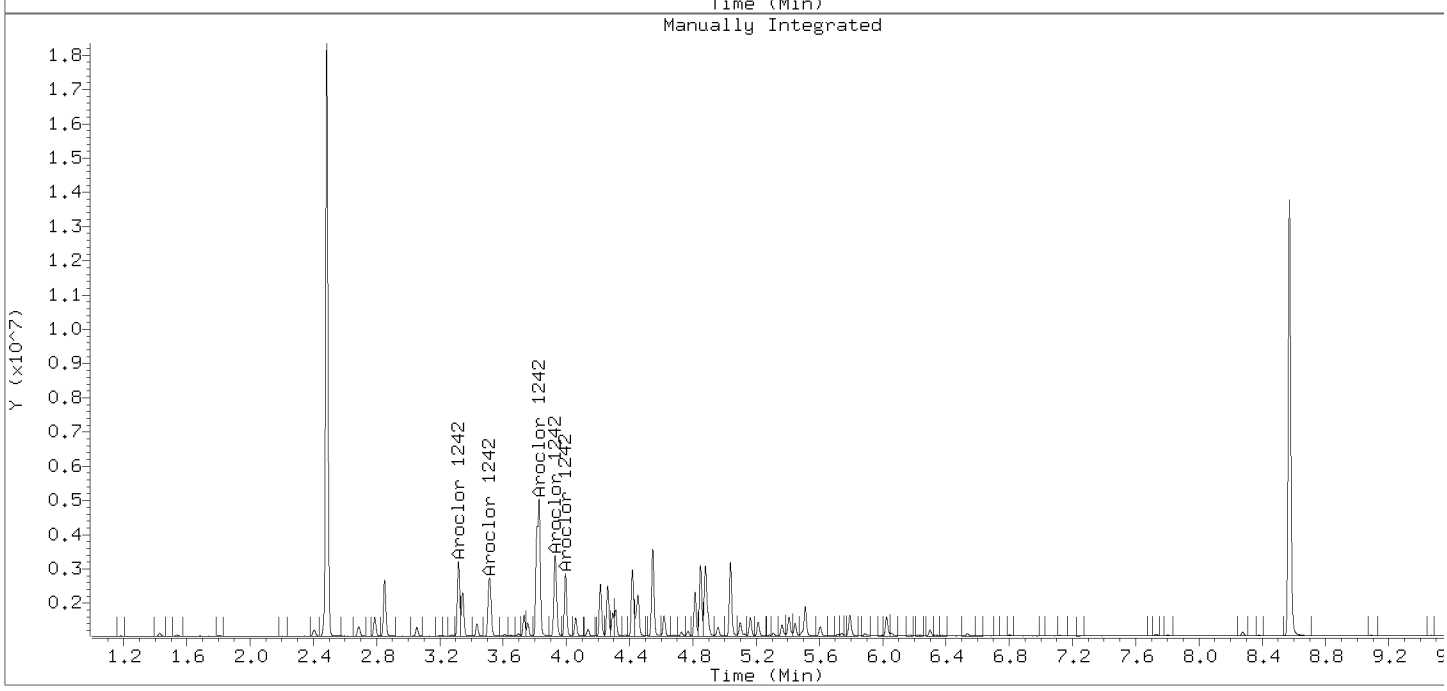
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

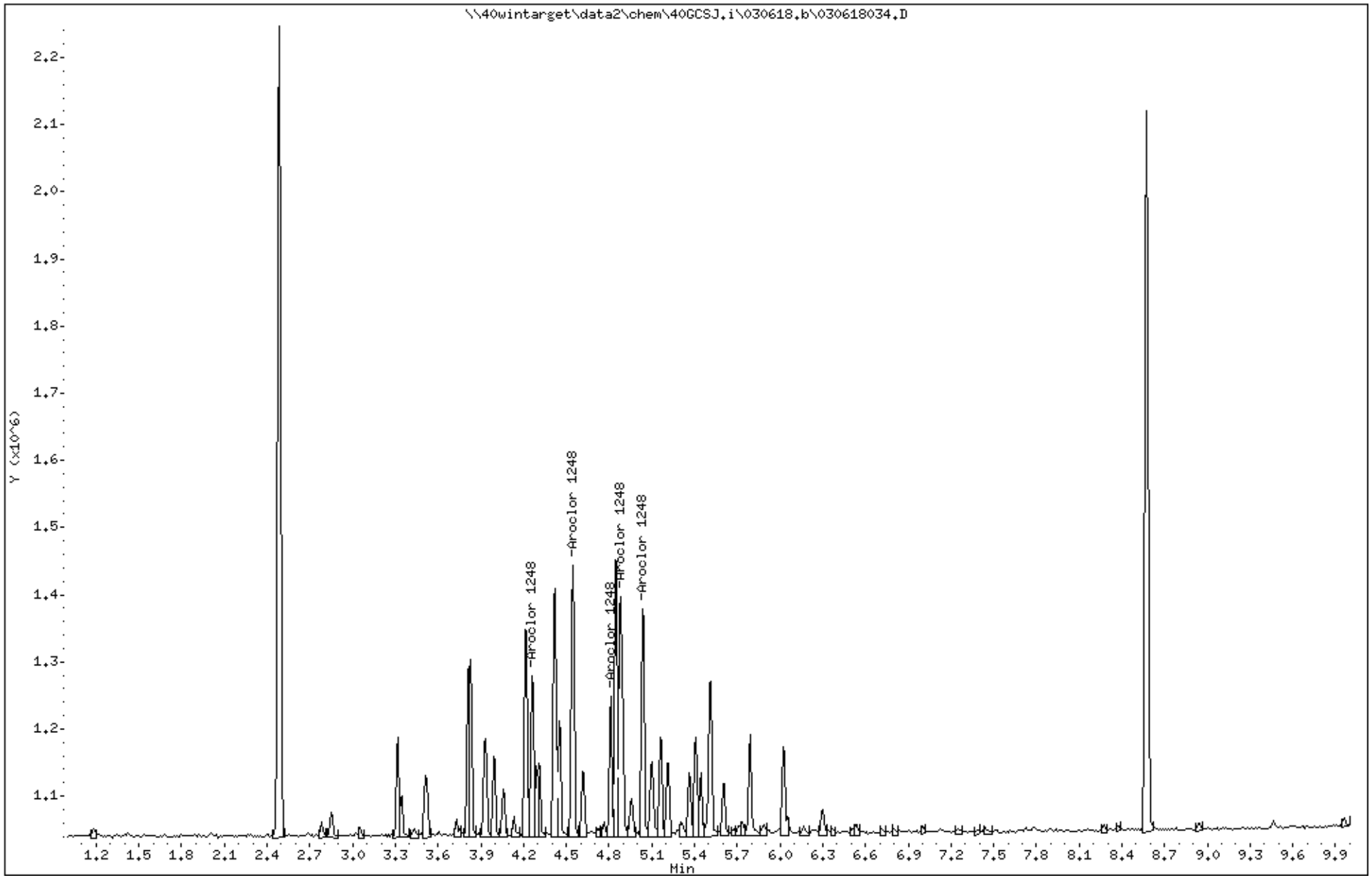
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

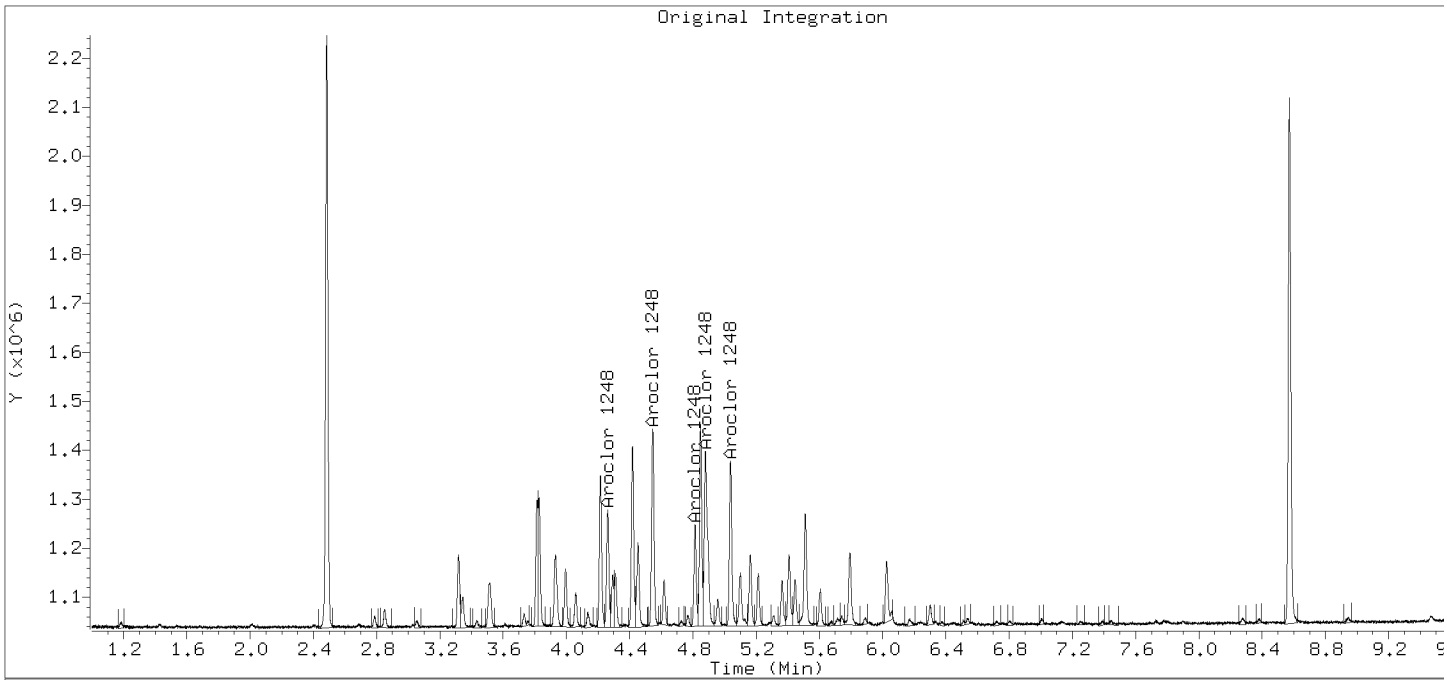
Operator: BLM

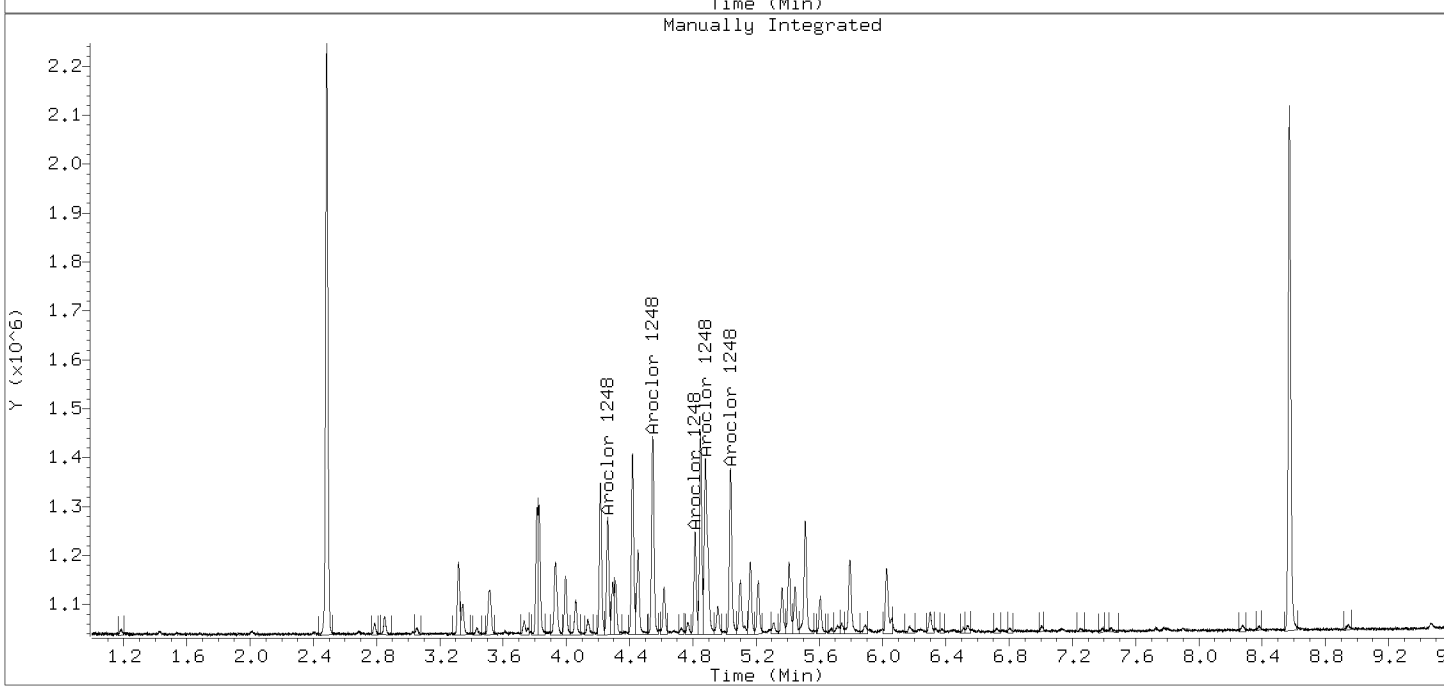
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

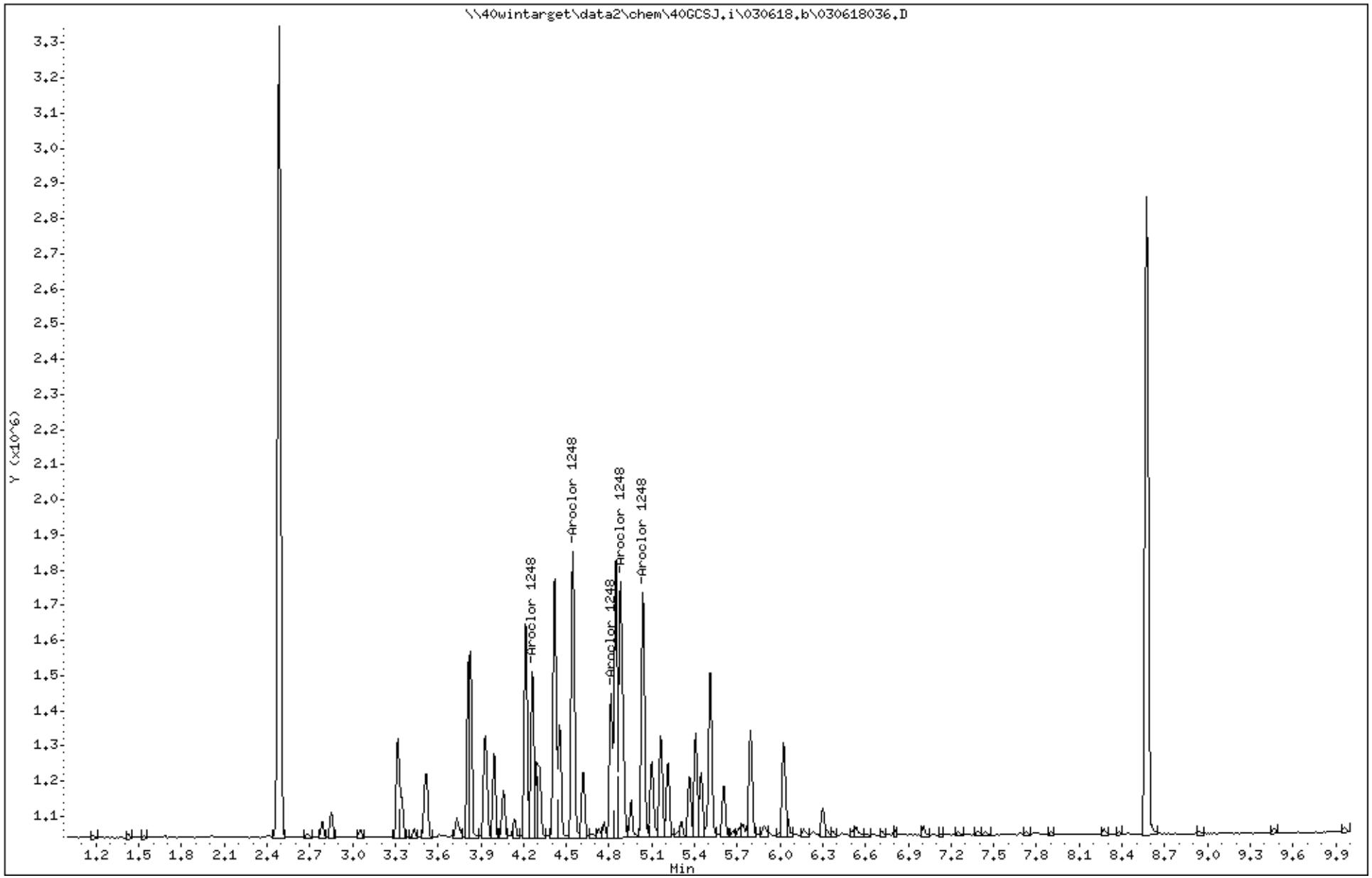
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

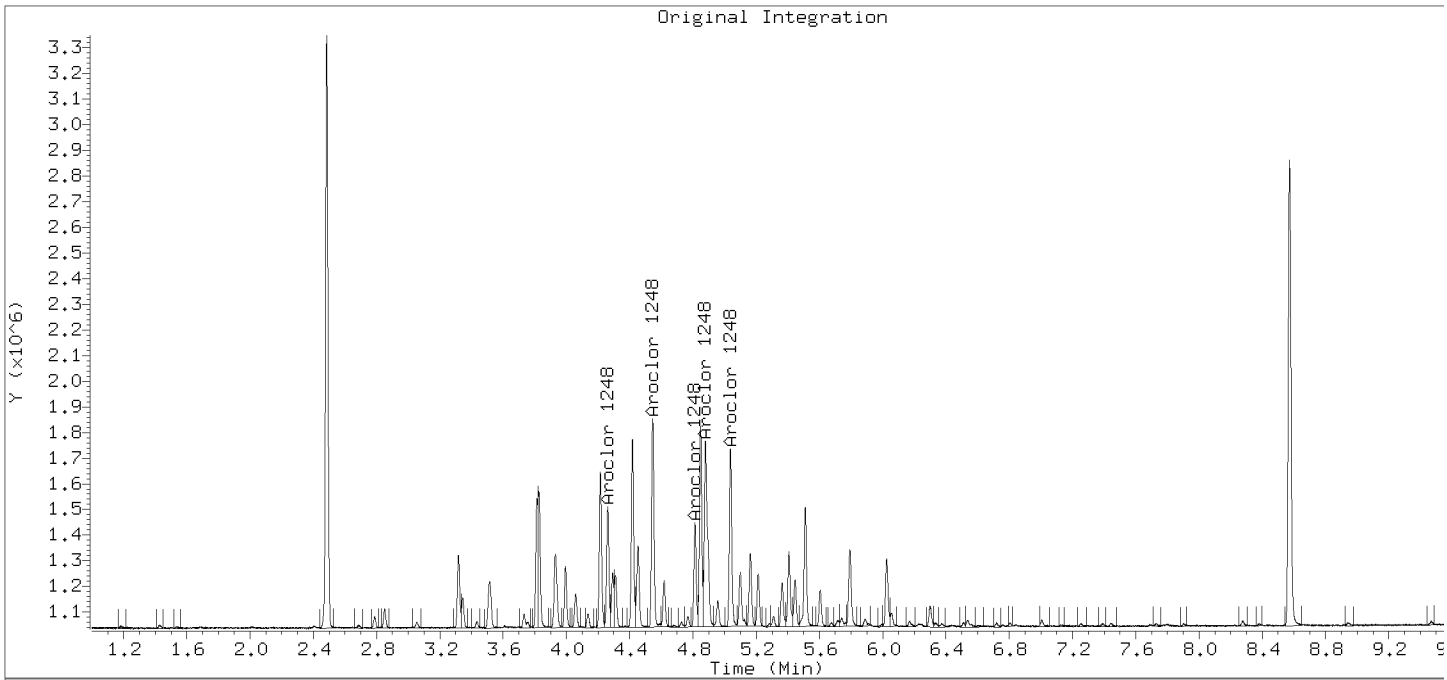
Operator: BLM

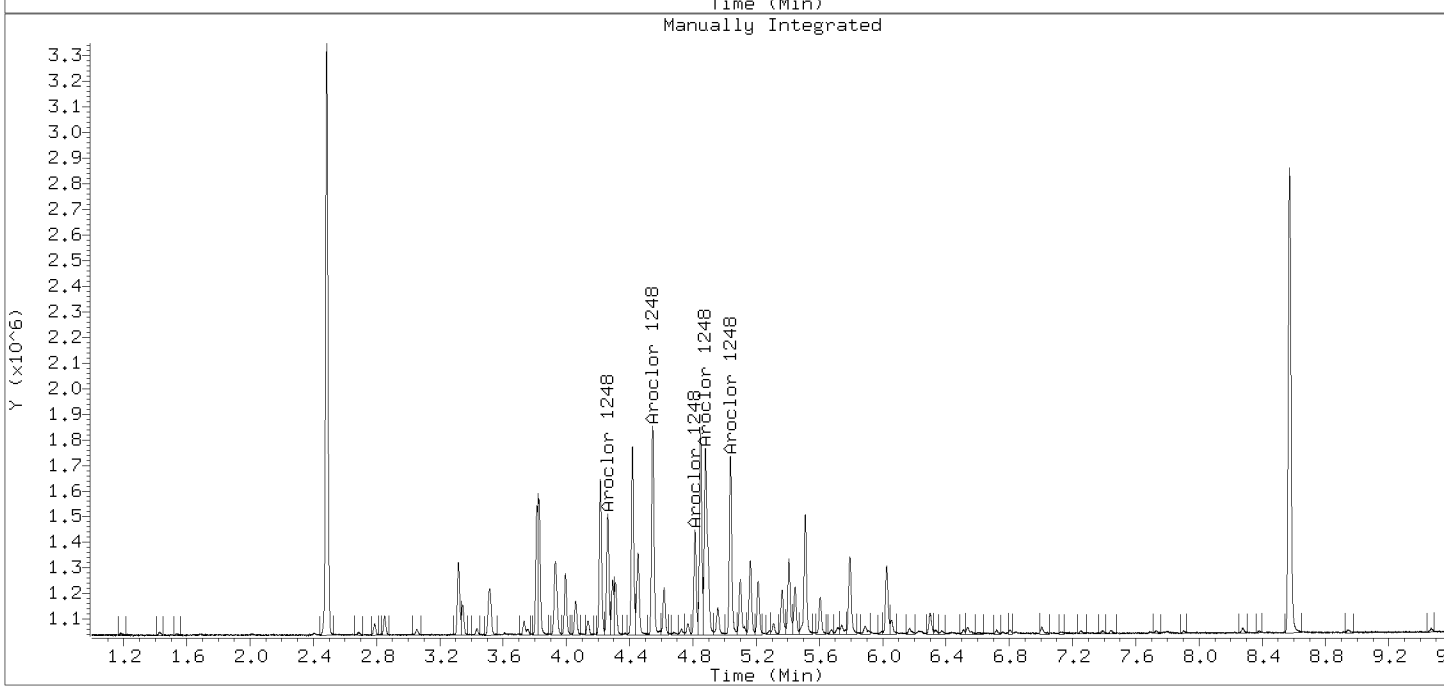
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D

Date : 06-MAR-2018 15:53

Client ID: 1248-CAL3D

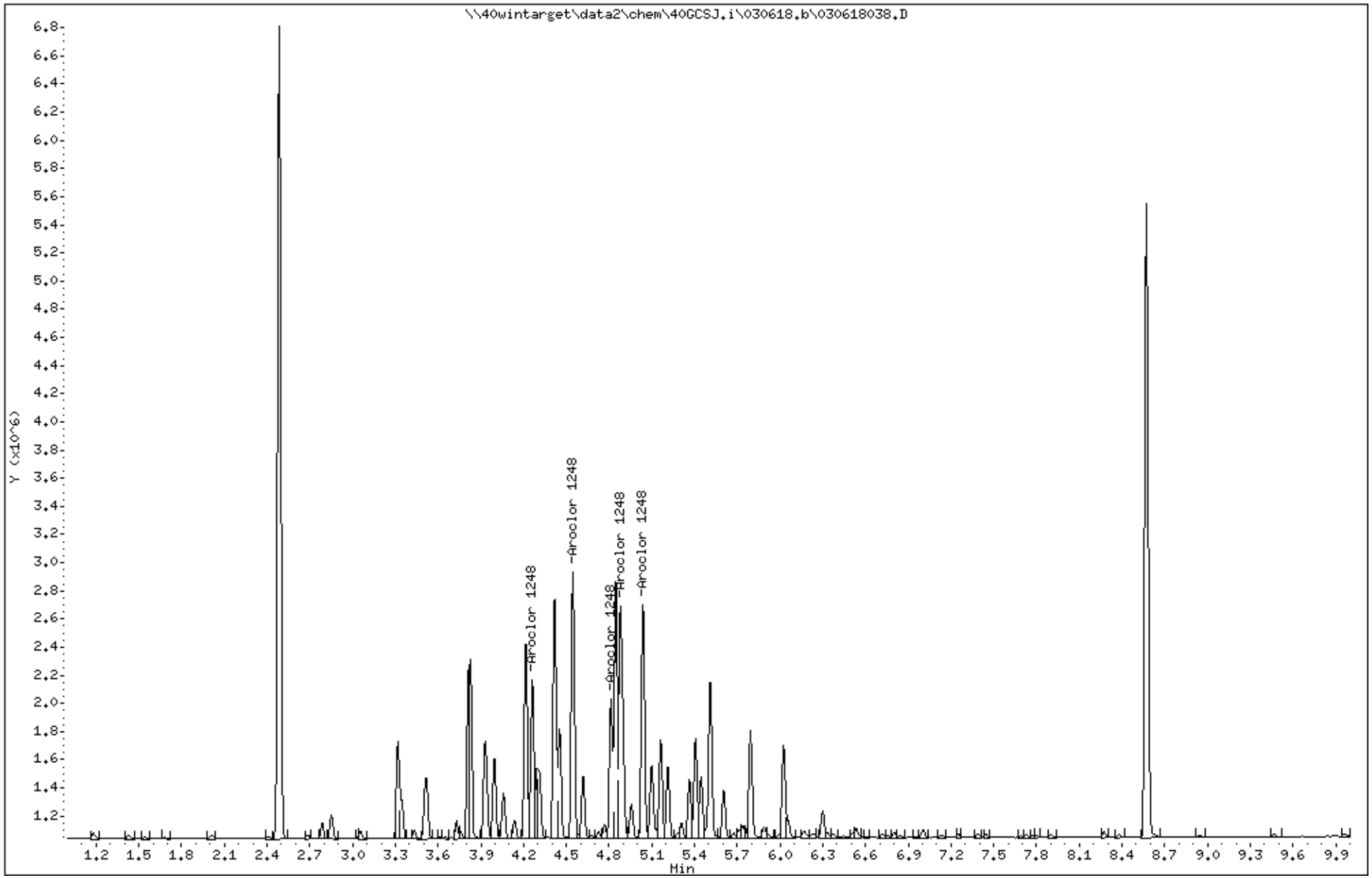
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

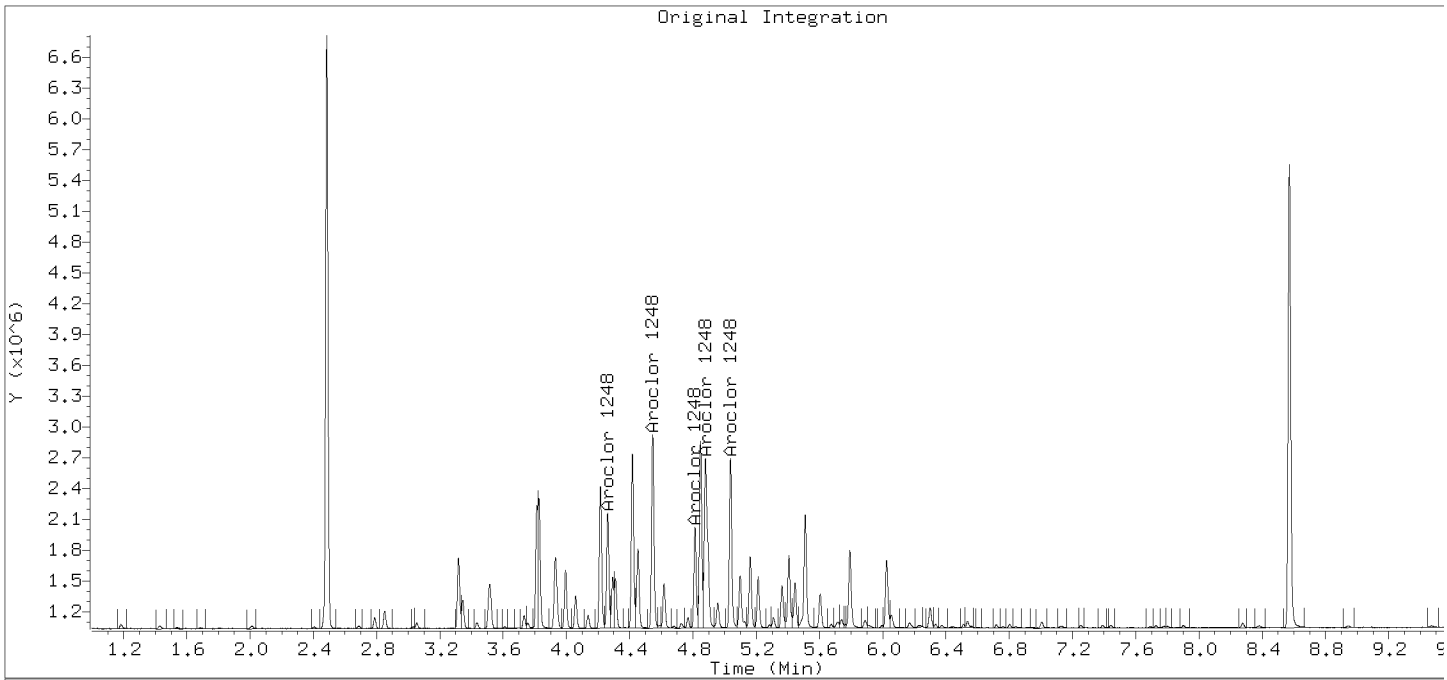
Operator: BLM

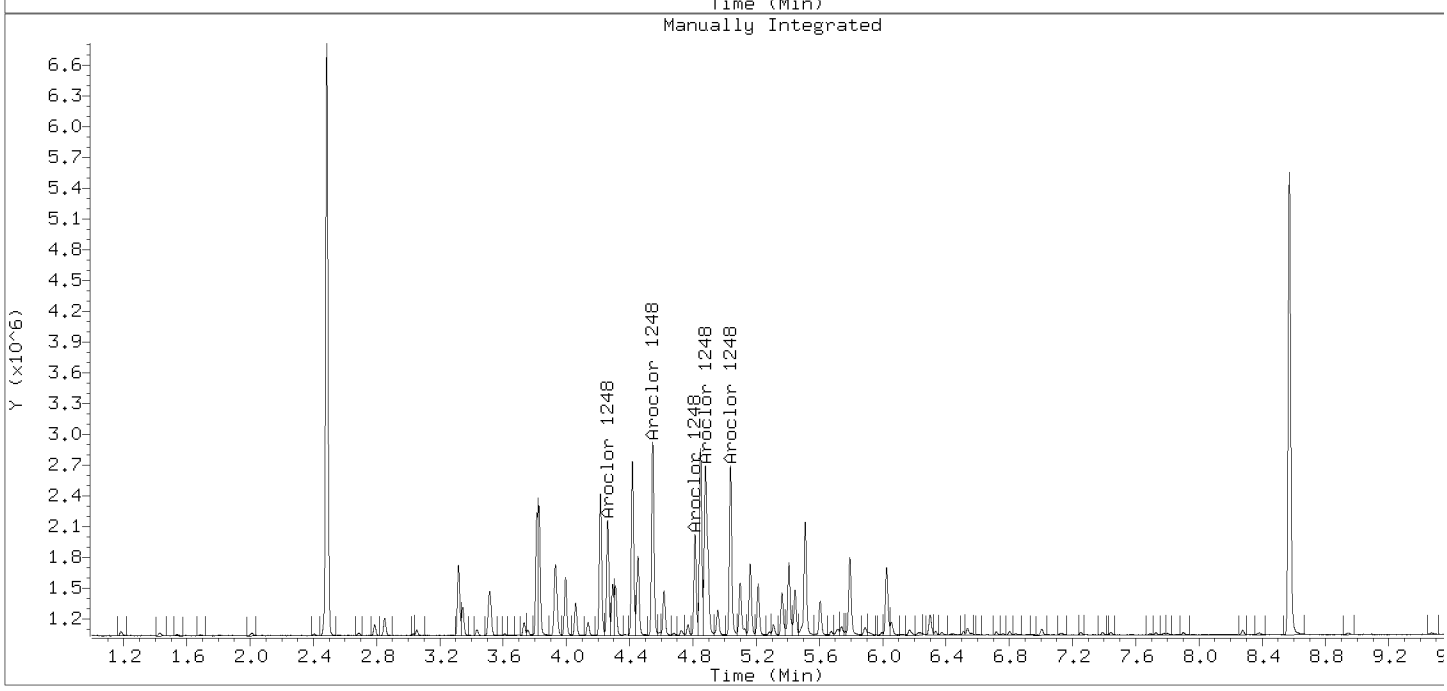
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

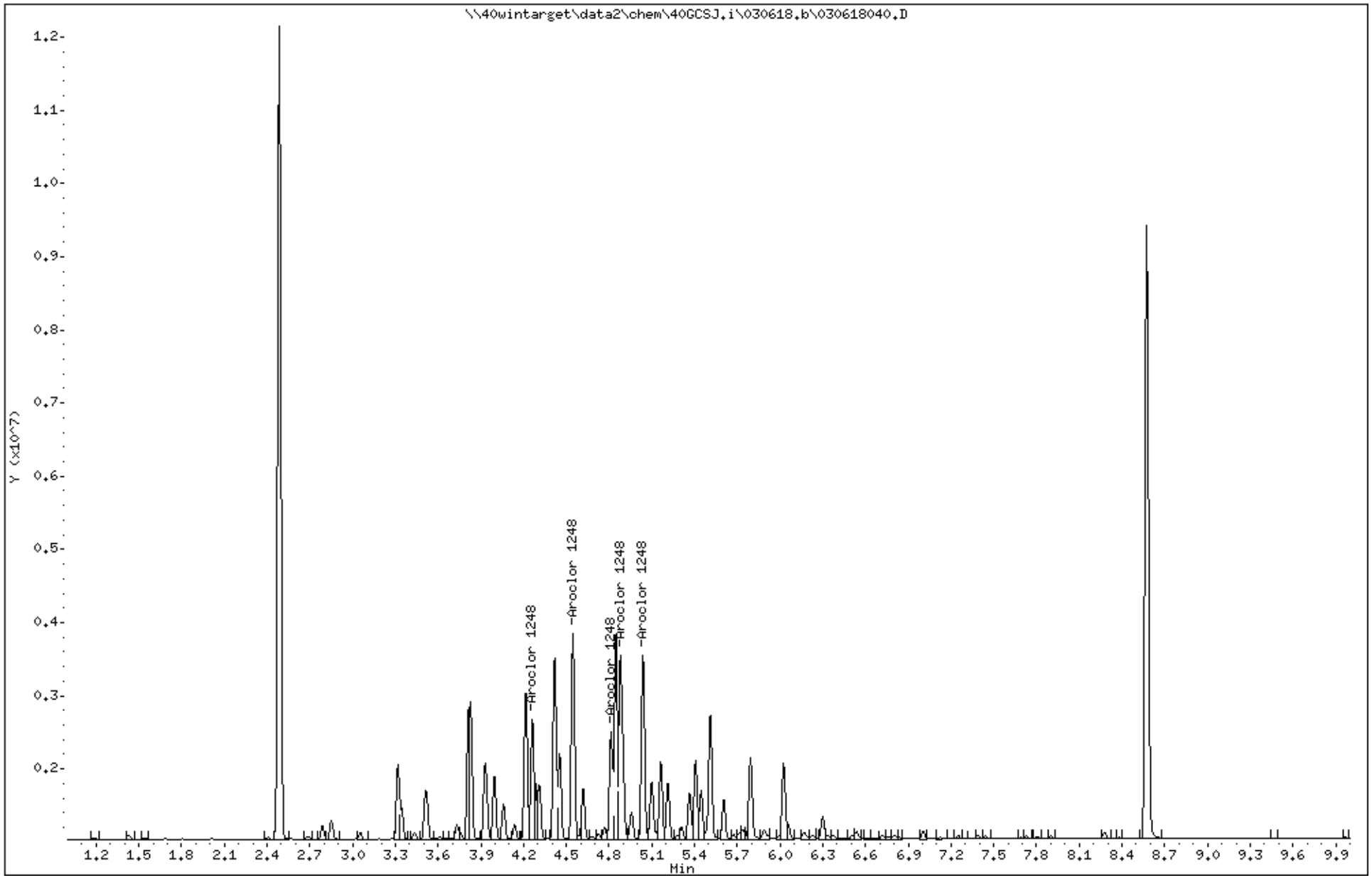
M - Compound response manually integrated.

Review Codes Legend

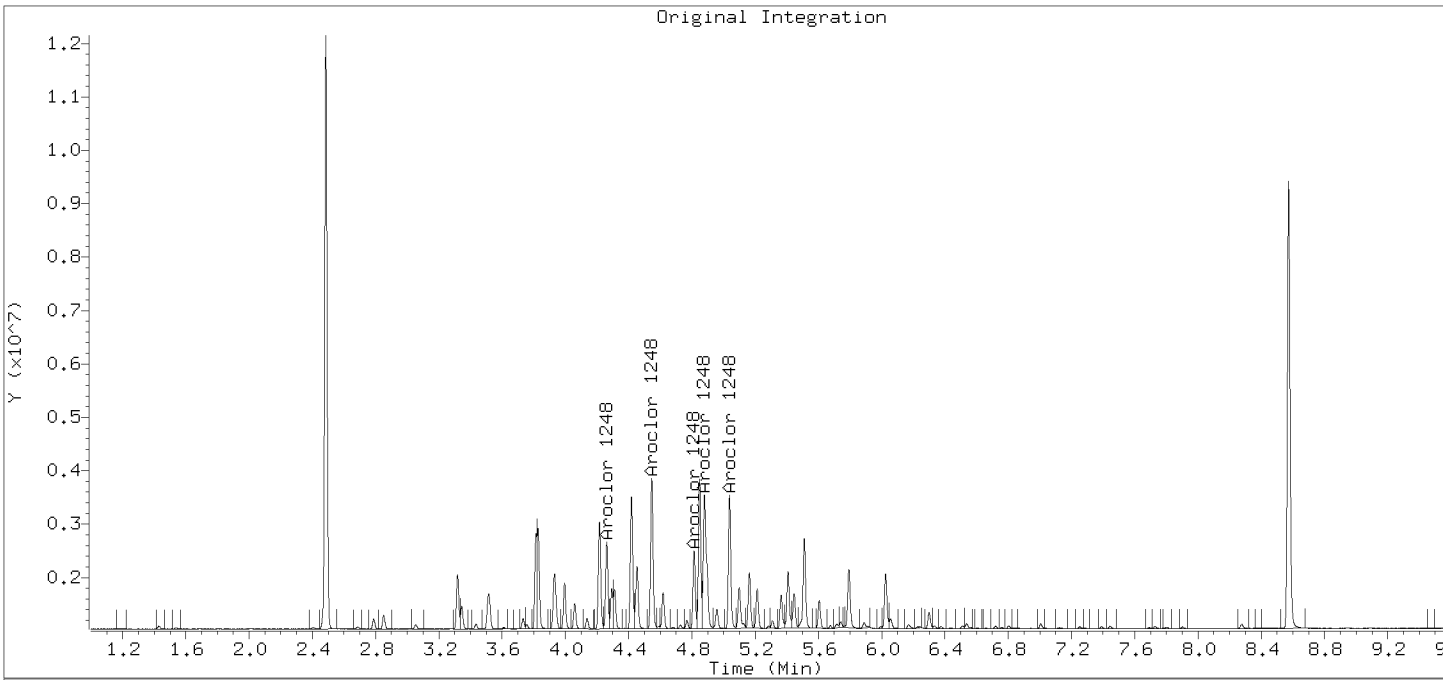
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

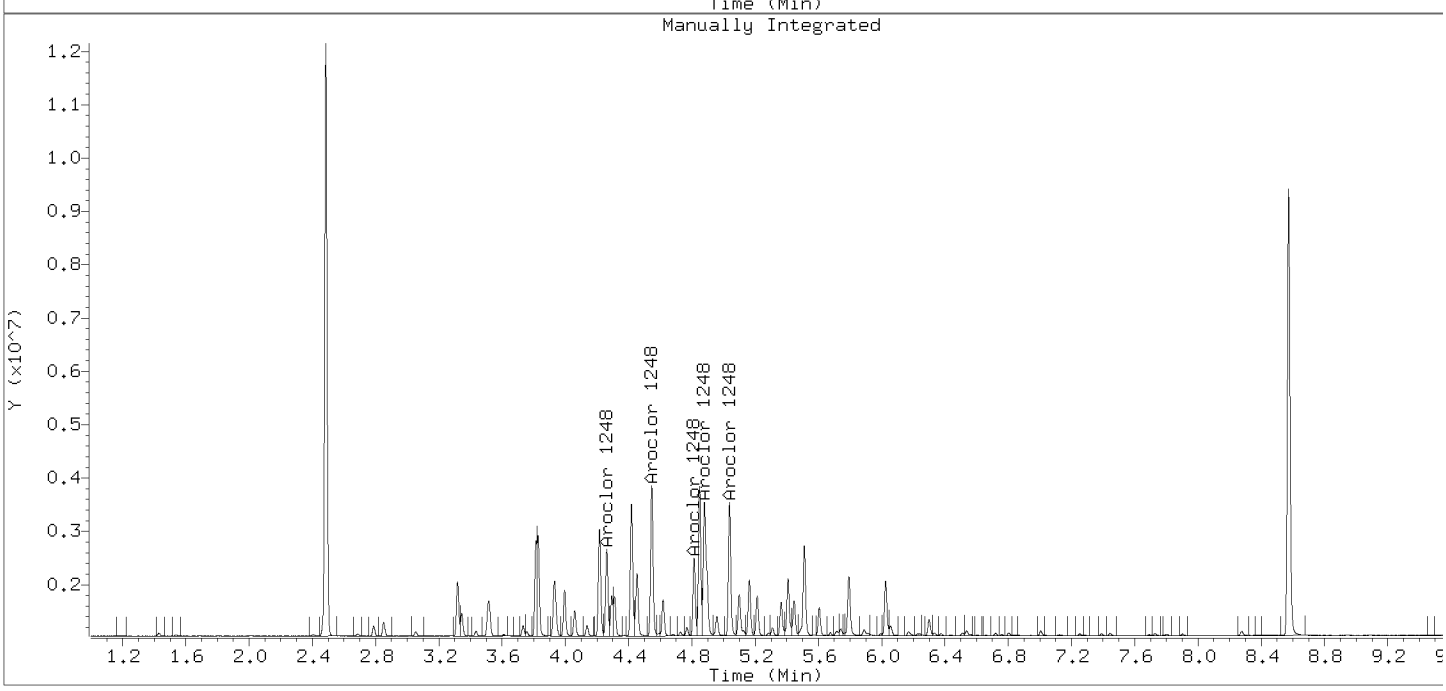
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Date : 06-MAR-2018 16:09
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

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

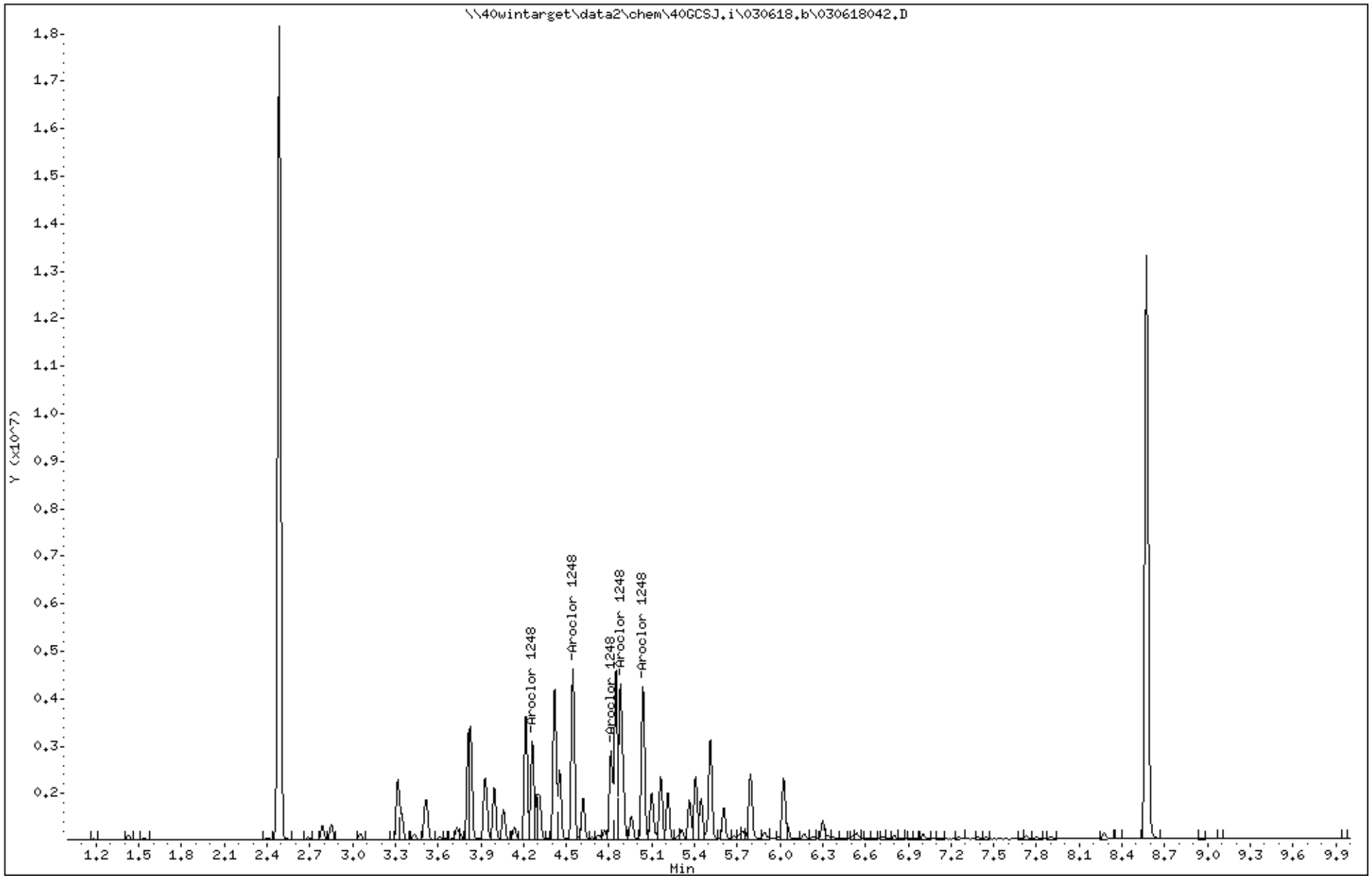
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

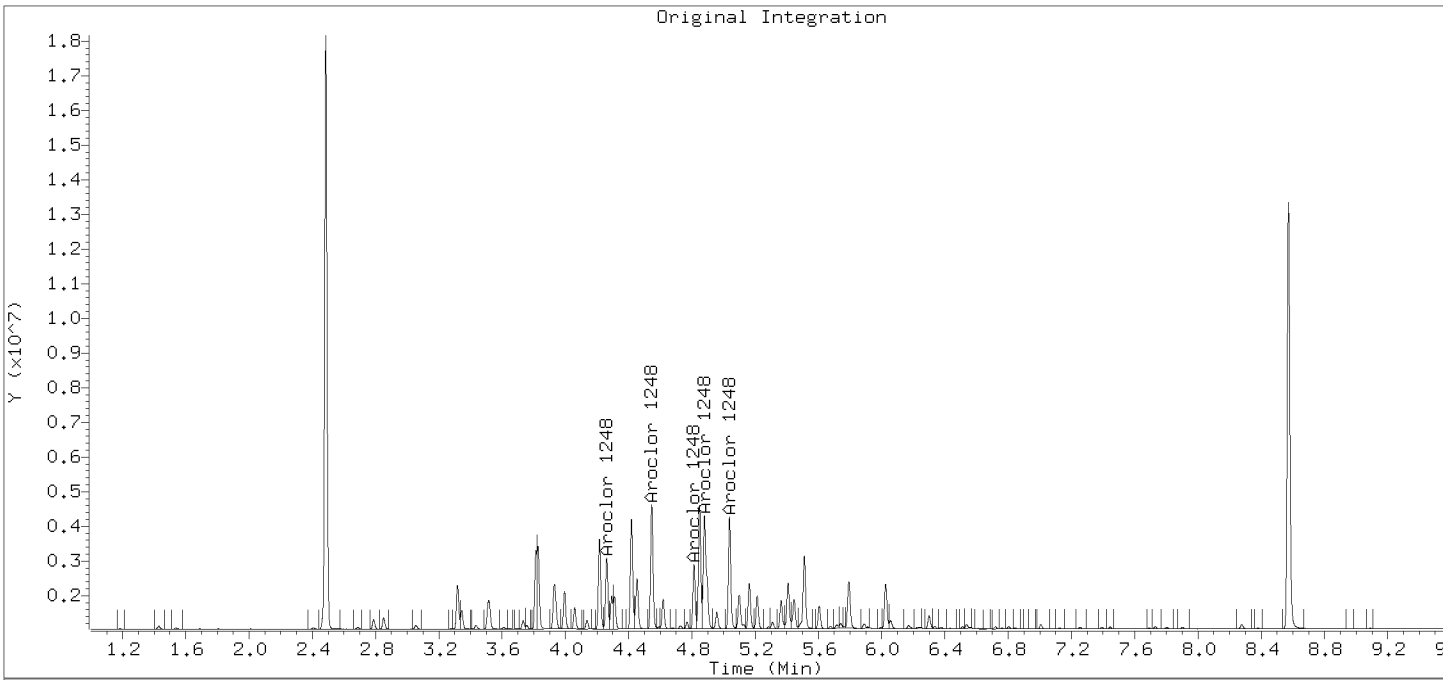
Operator: BLM

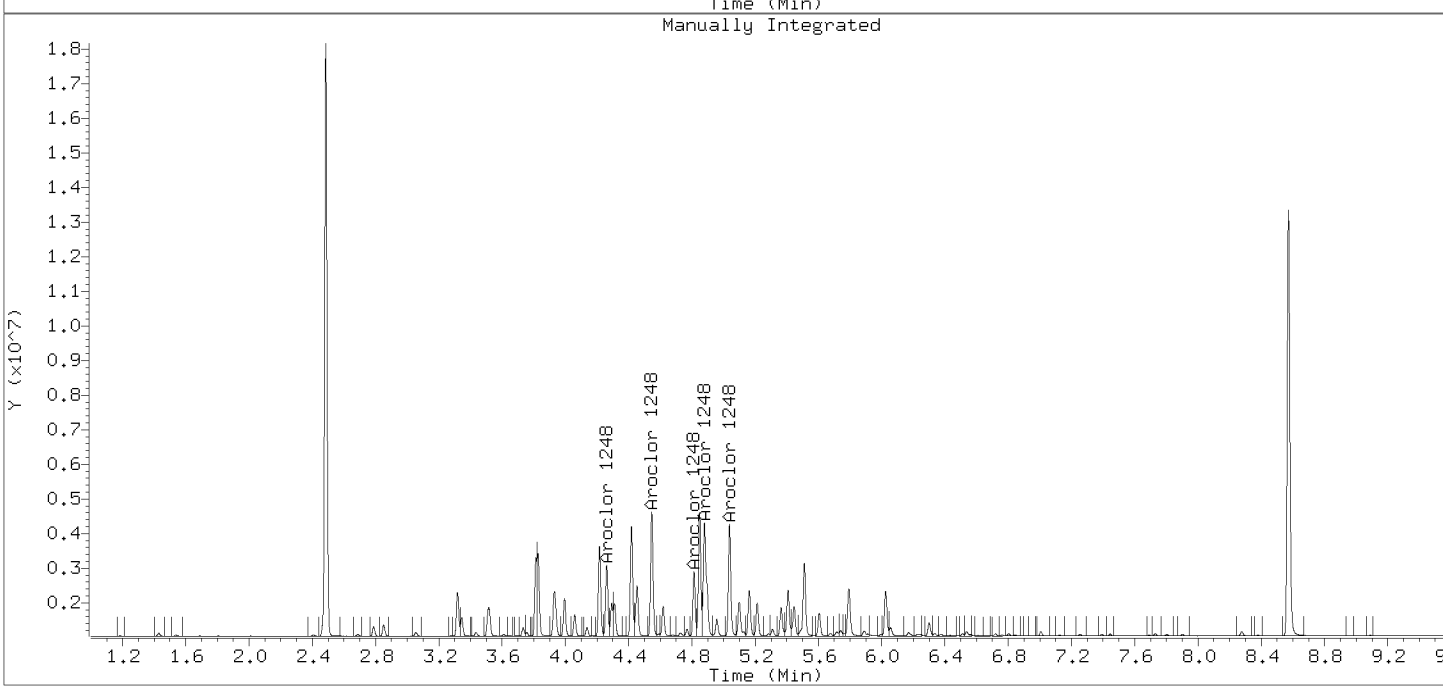
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

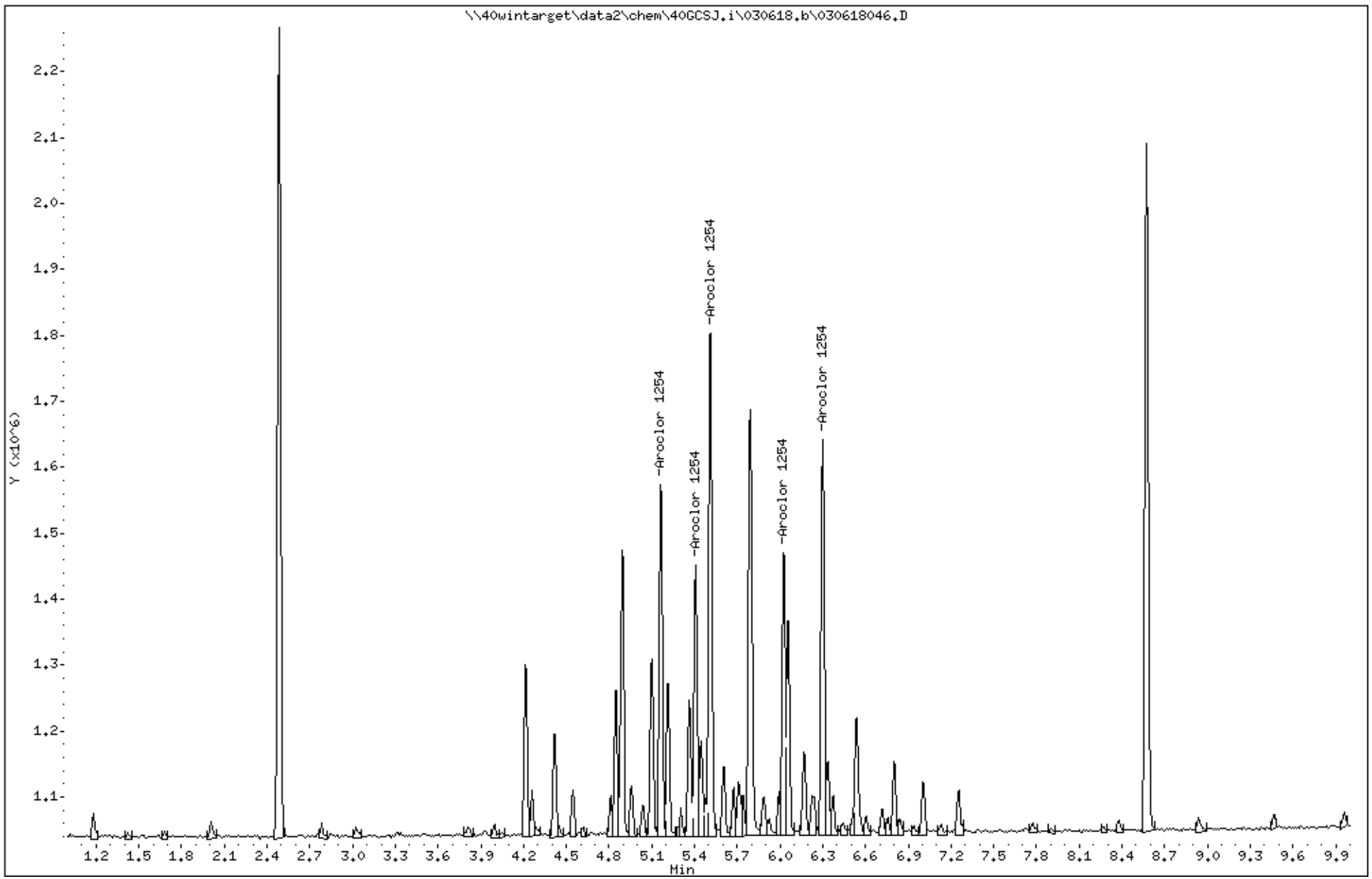
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

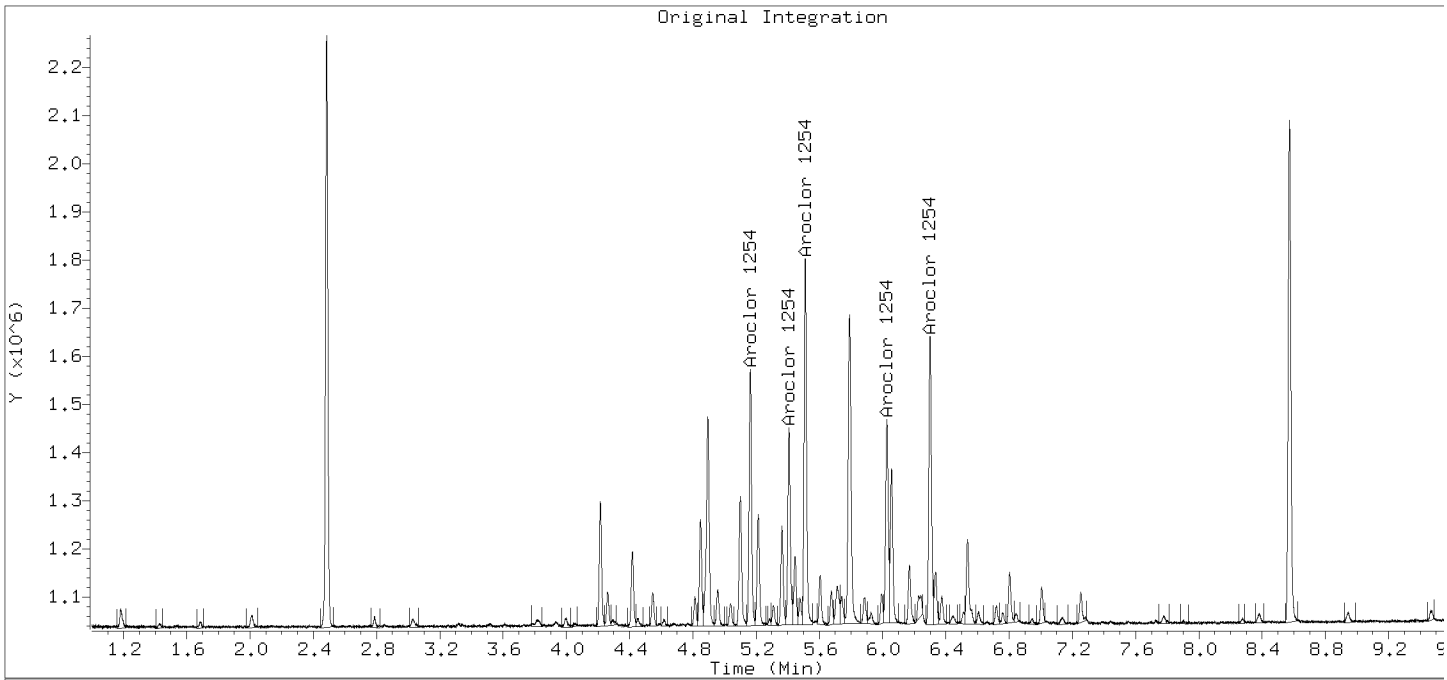
Column phase: ZB-1ms

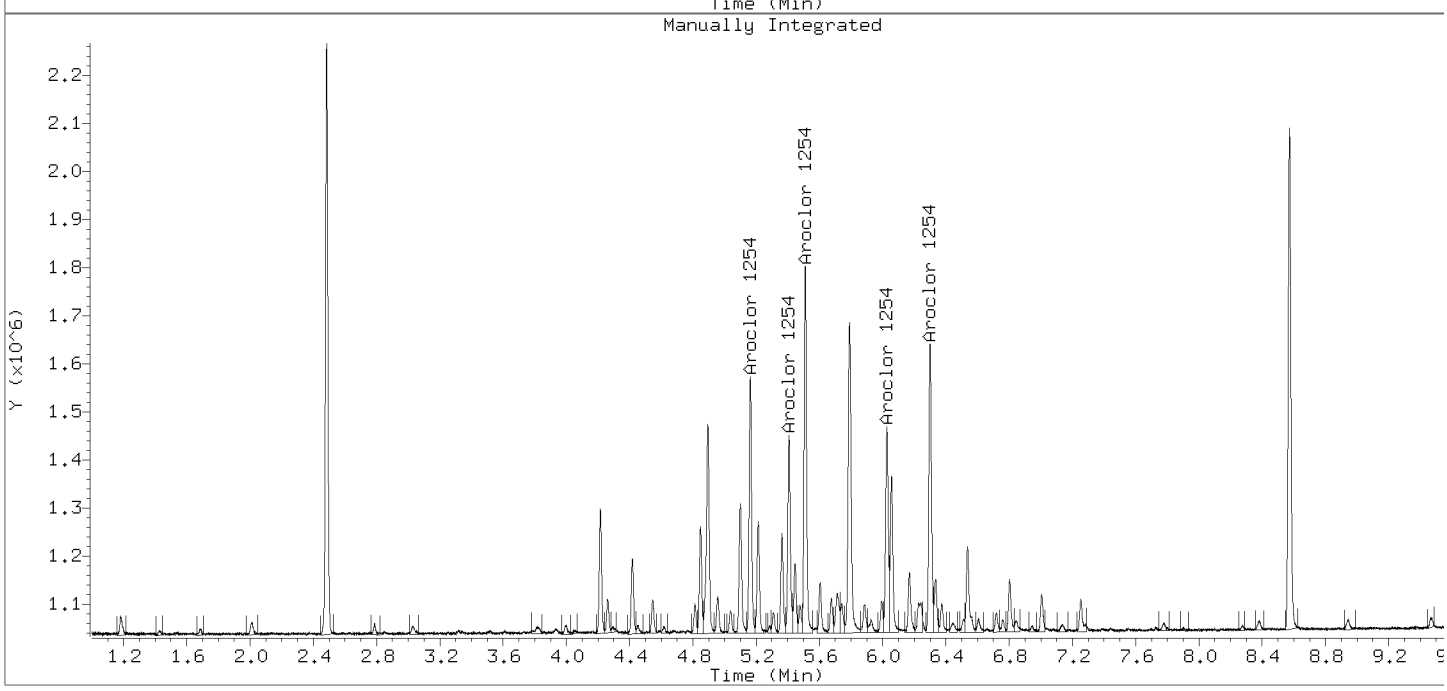
Instrument: 40GCSJ.i

Operator: BLM
Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:13

Client ID: 1254-CAL2C

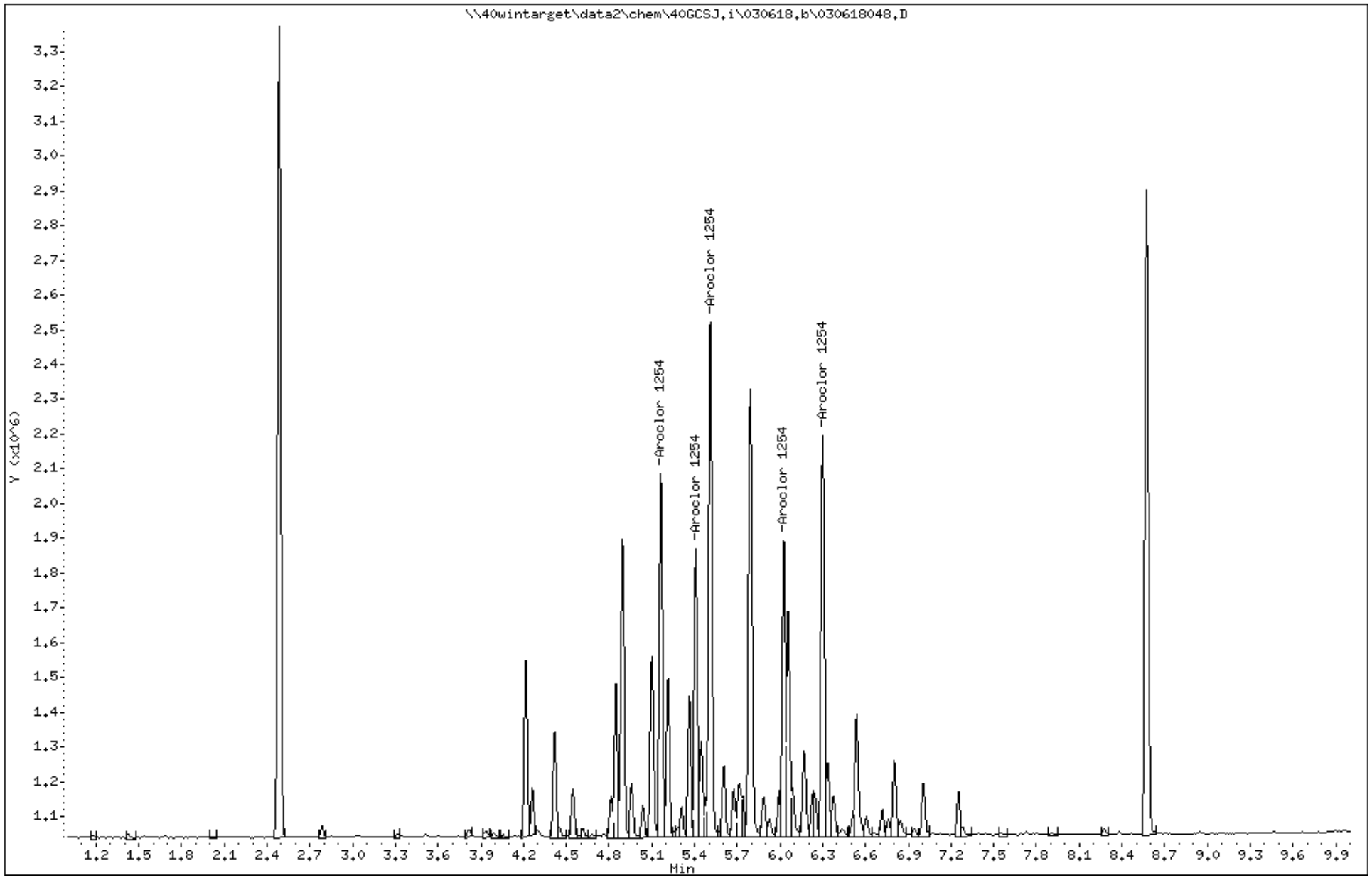
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

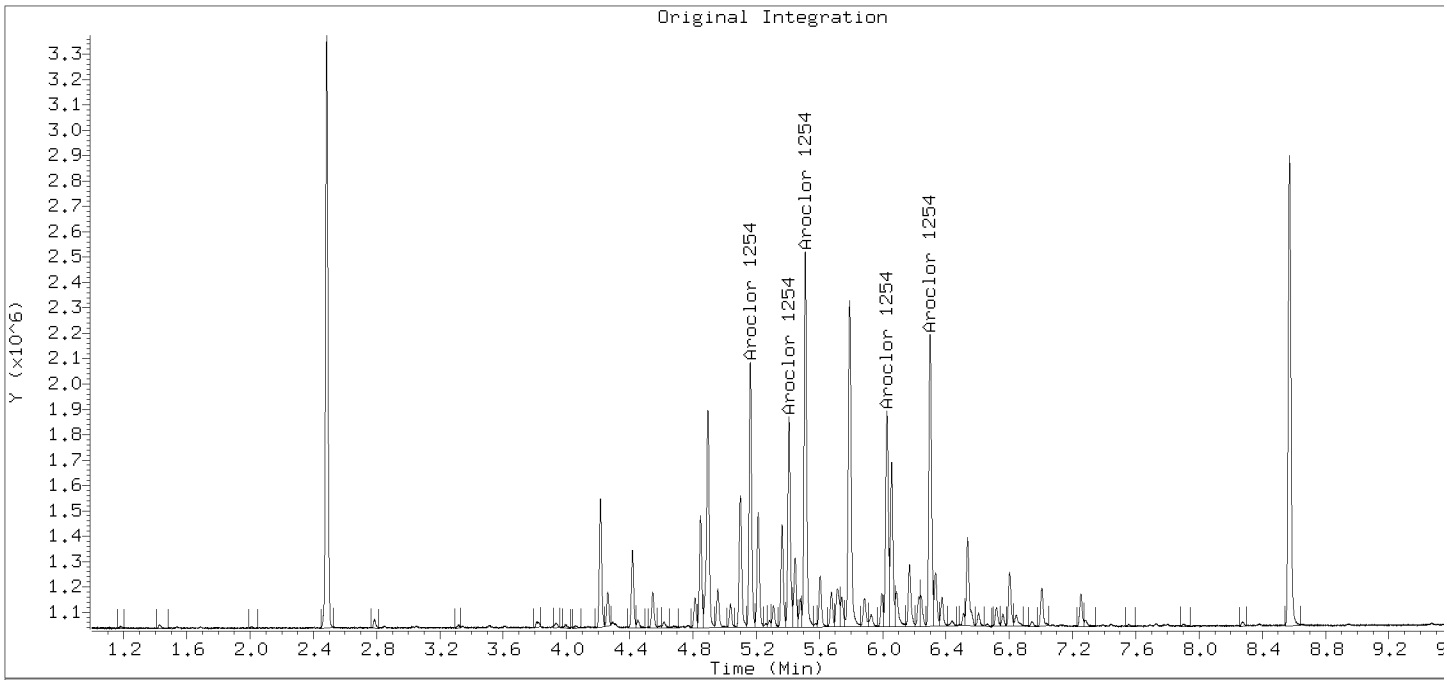
Operator: BLM

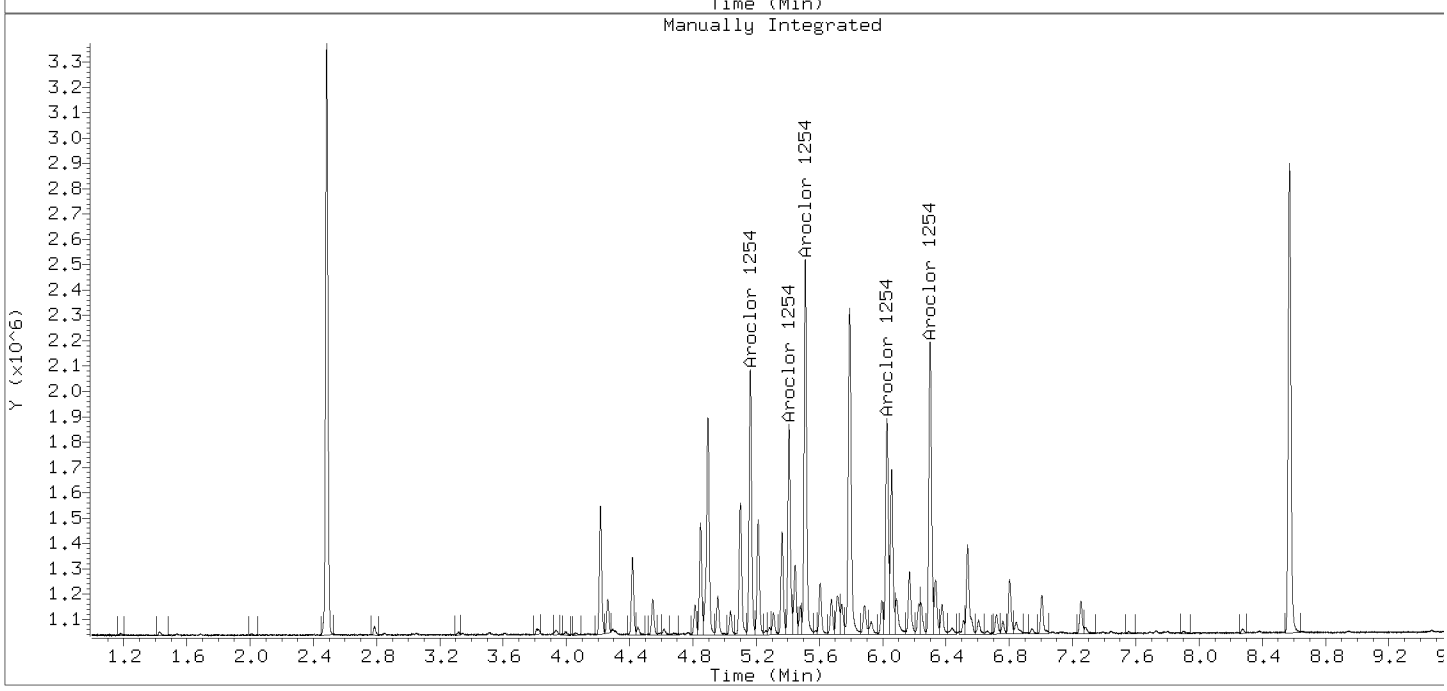
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

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SW846-8082

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

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

QC Flag Legend

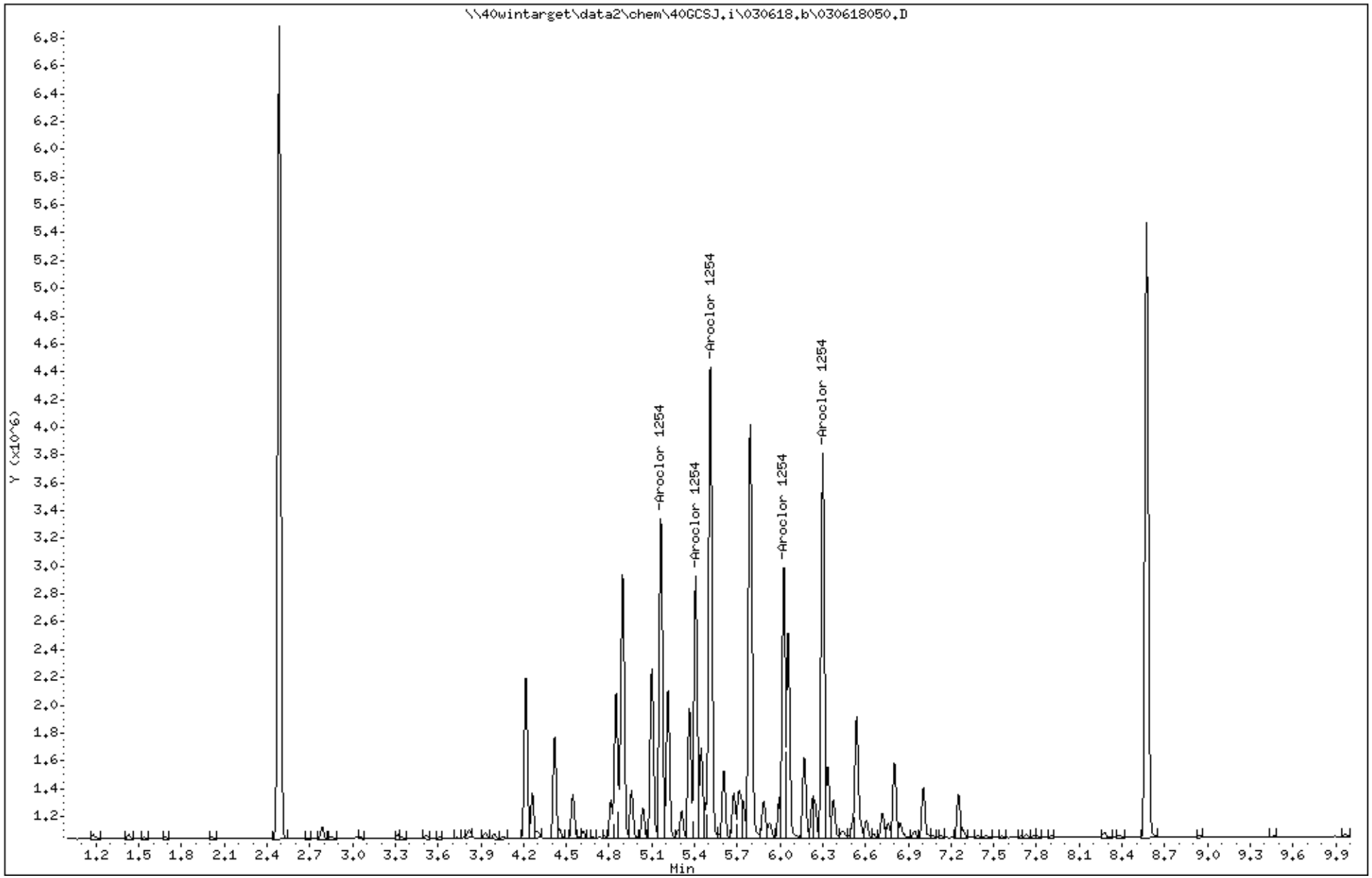
M - Compound response manually integrated.

Review Codes Legend

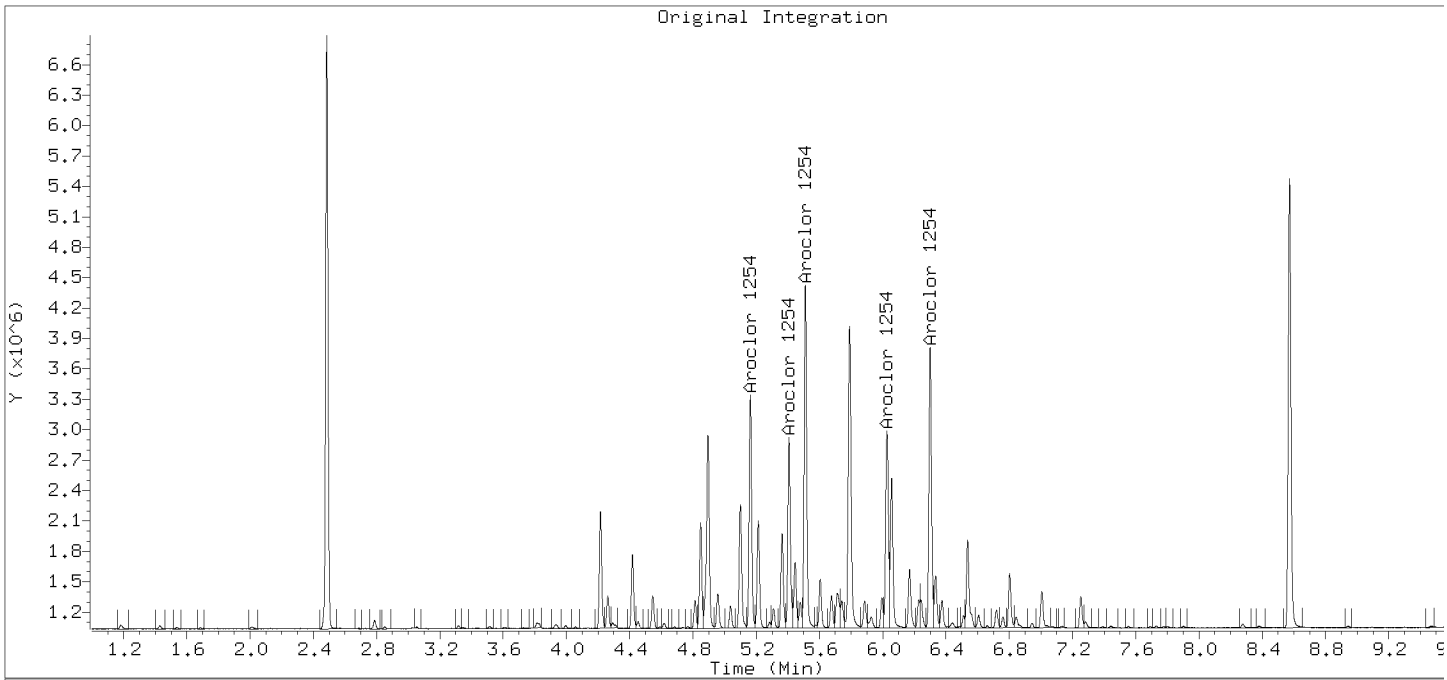
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

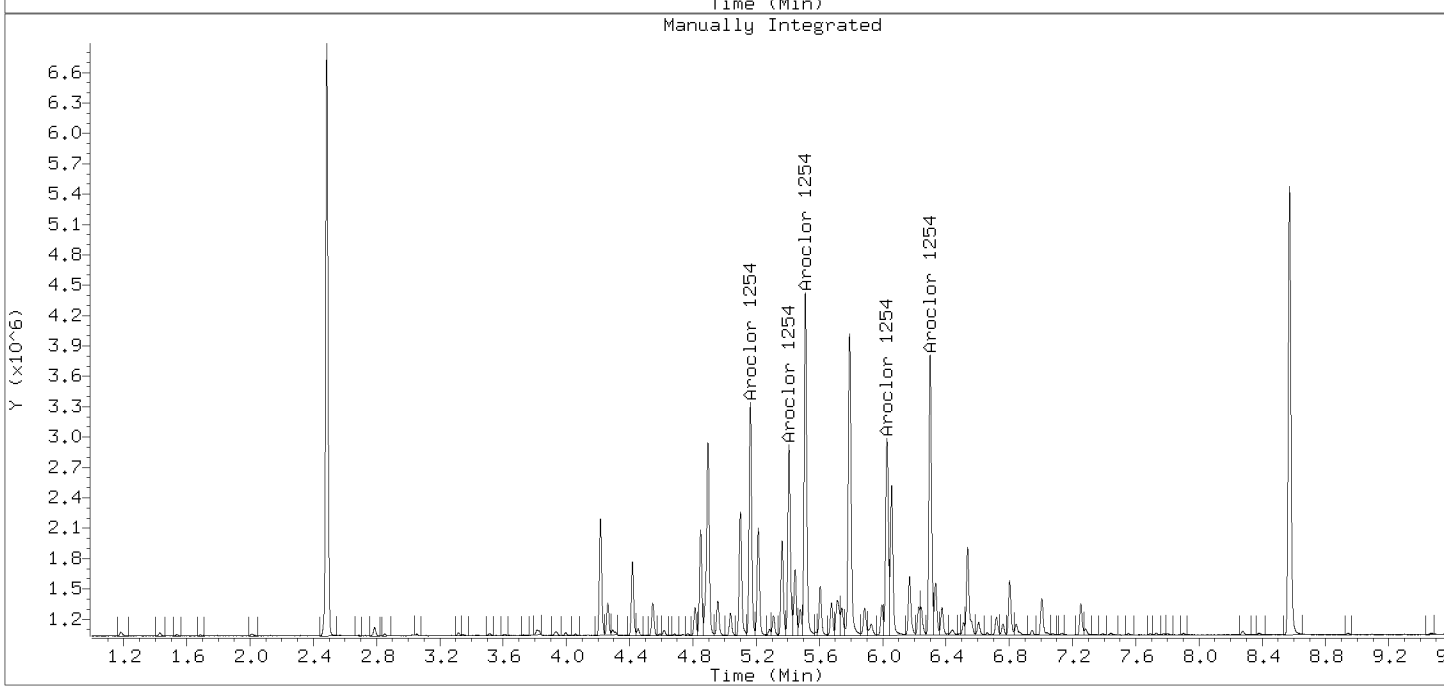
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Date : 06-MAR-2018 17:30
Client ID: 1254-CAL3C
Sample Info: 1254-CAL3C, 185554:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

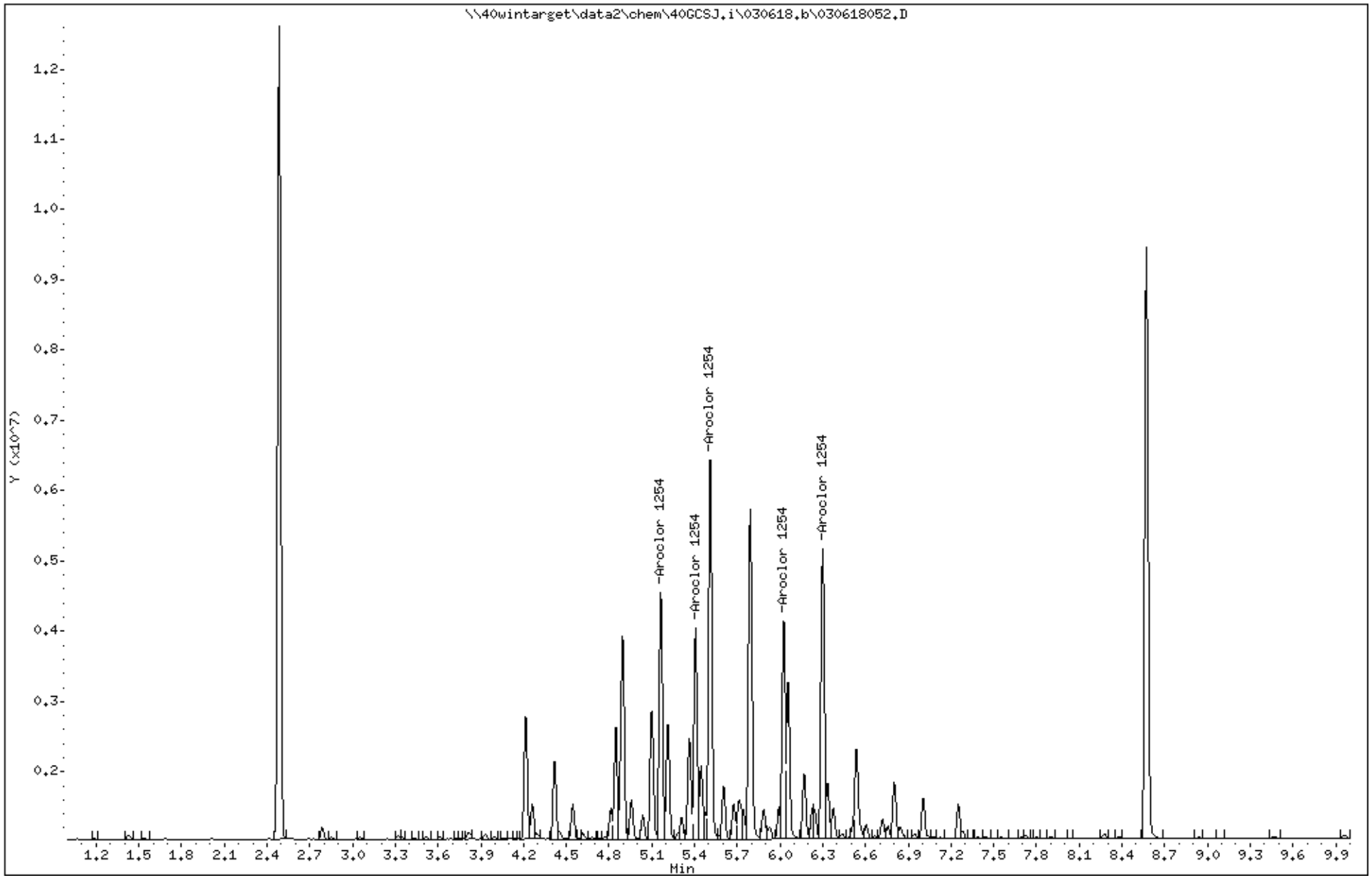
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Date : 06-MAR-2018 17:46
Client ID: 1254-CAL4C
Sample Info: 1254-CAL4C, 185555:1

Instrument: 40GCSJ.i

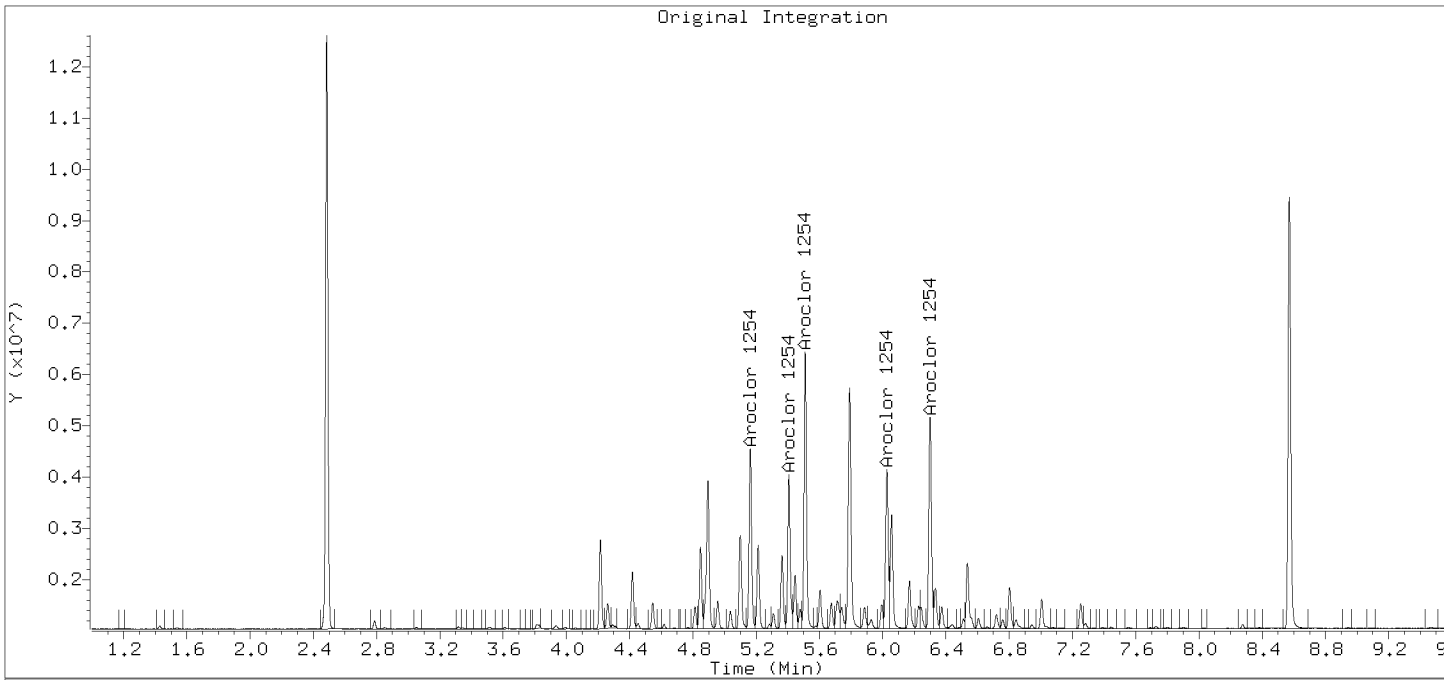
Operator: BLM

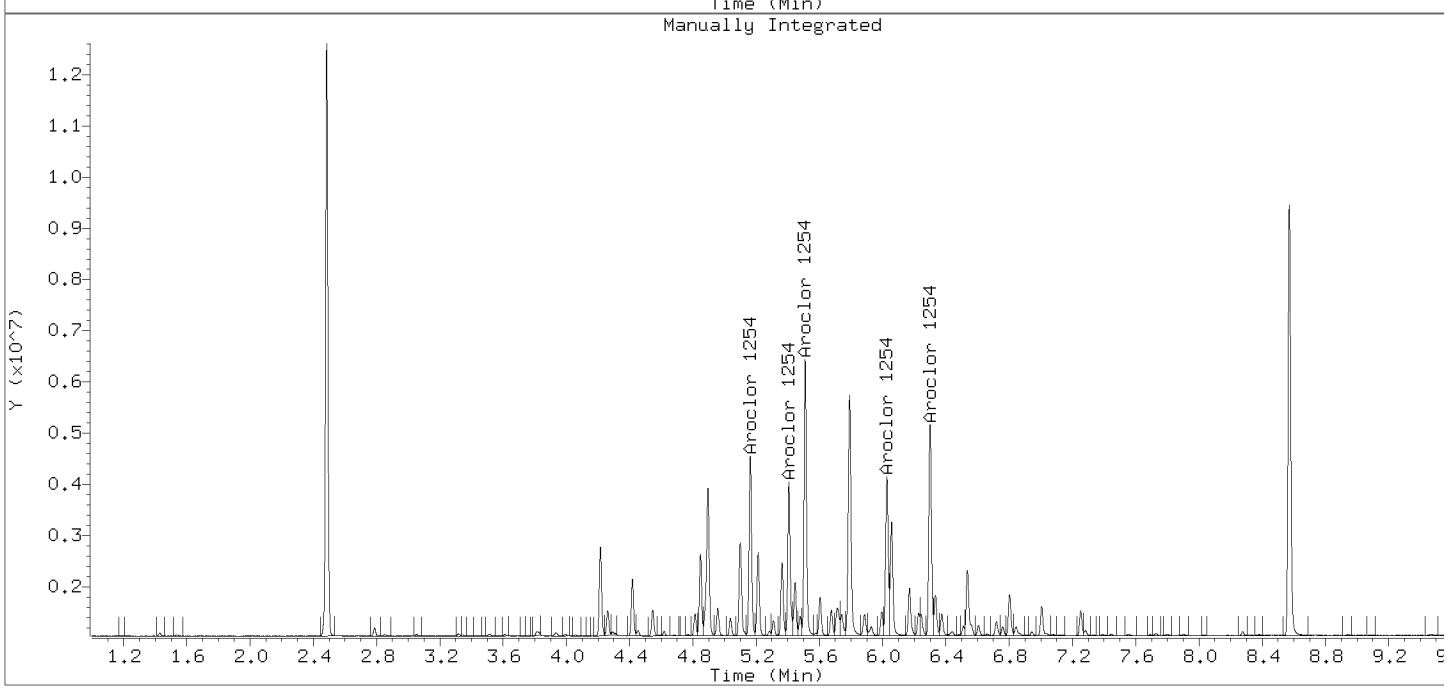
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

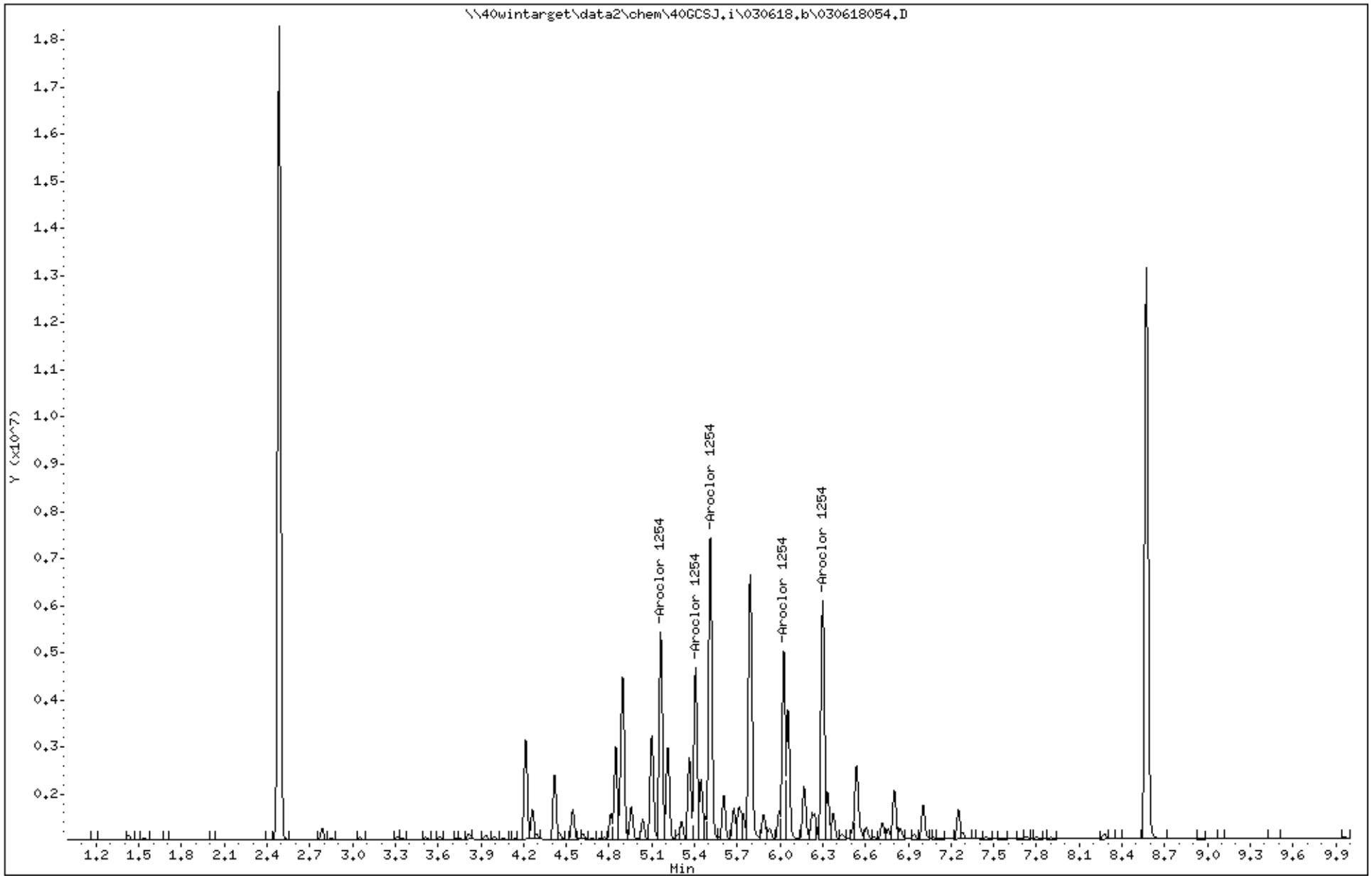
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

Column phase: ZB-1ms

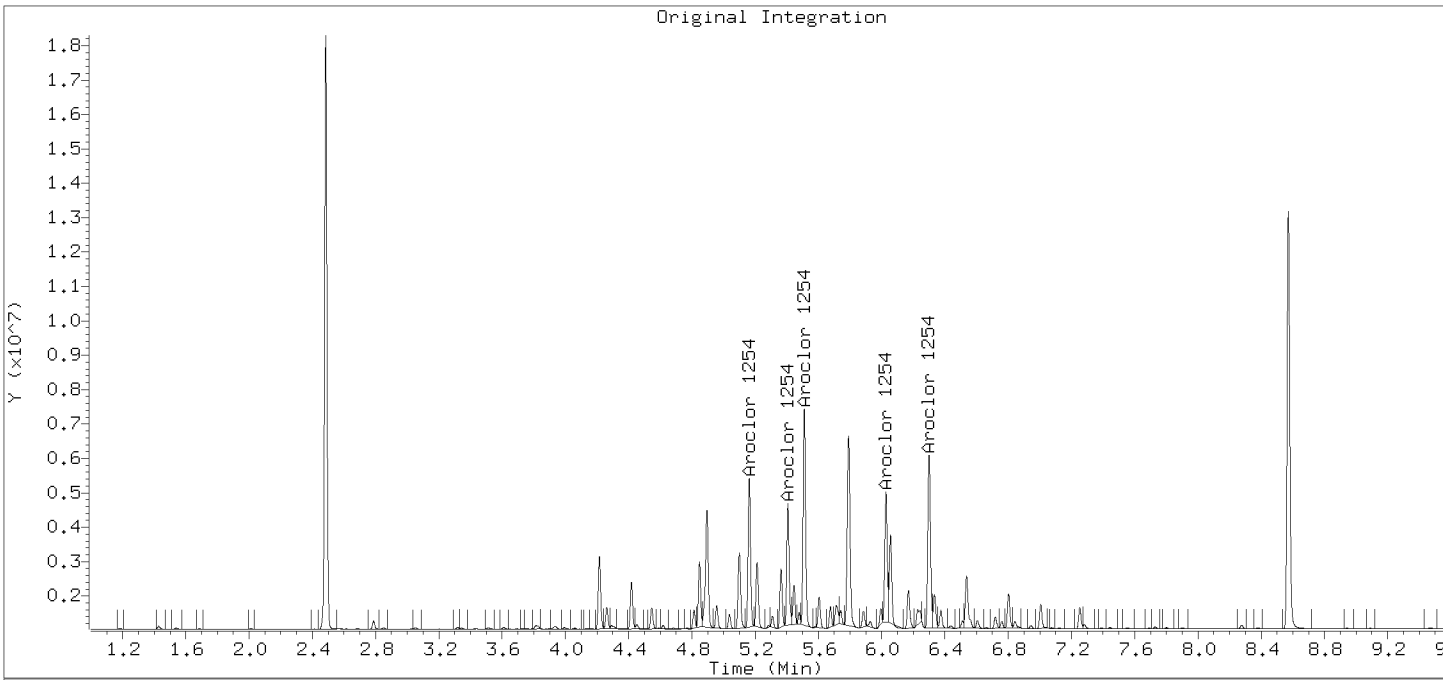
Instrument: 40GCSJ.i

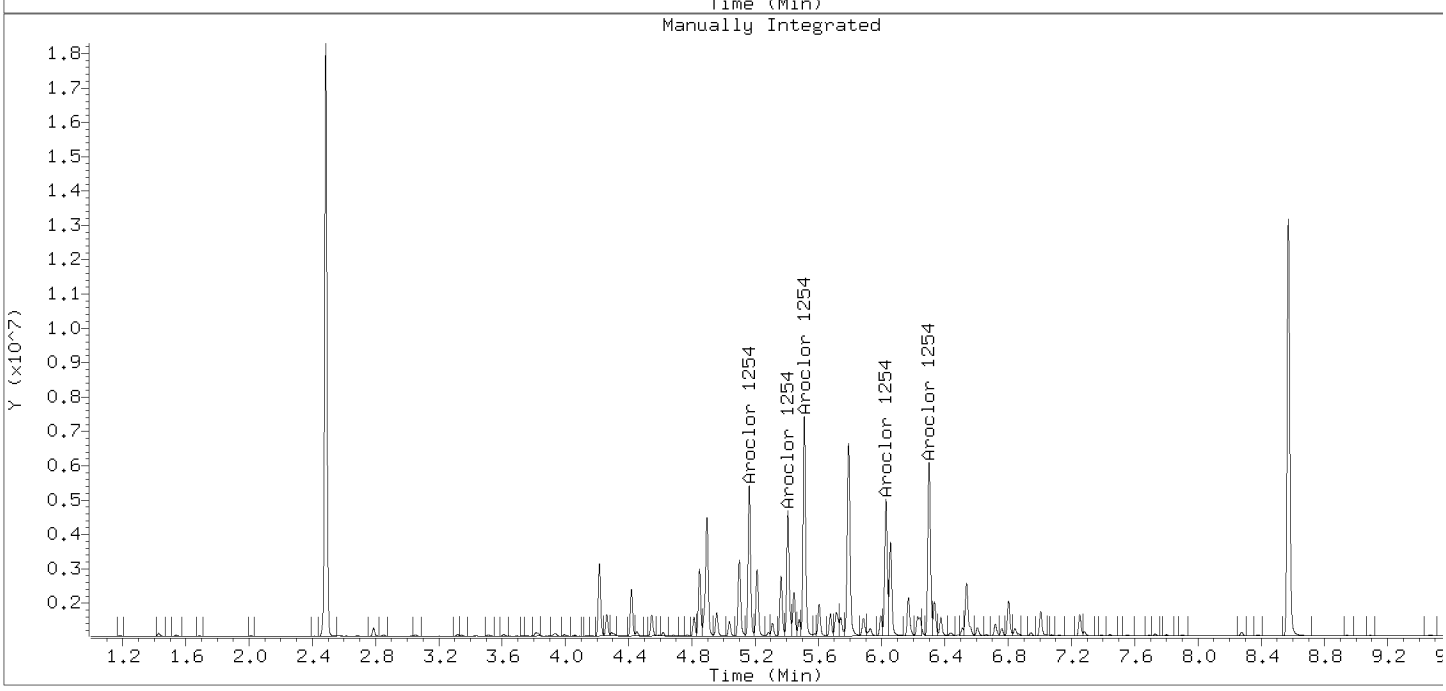
Operator: BLM

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

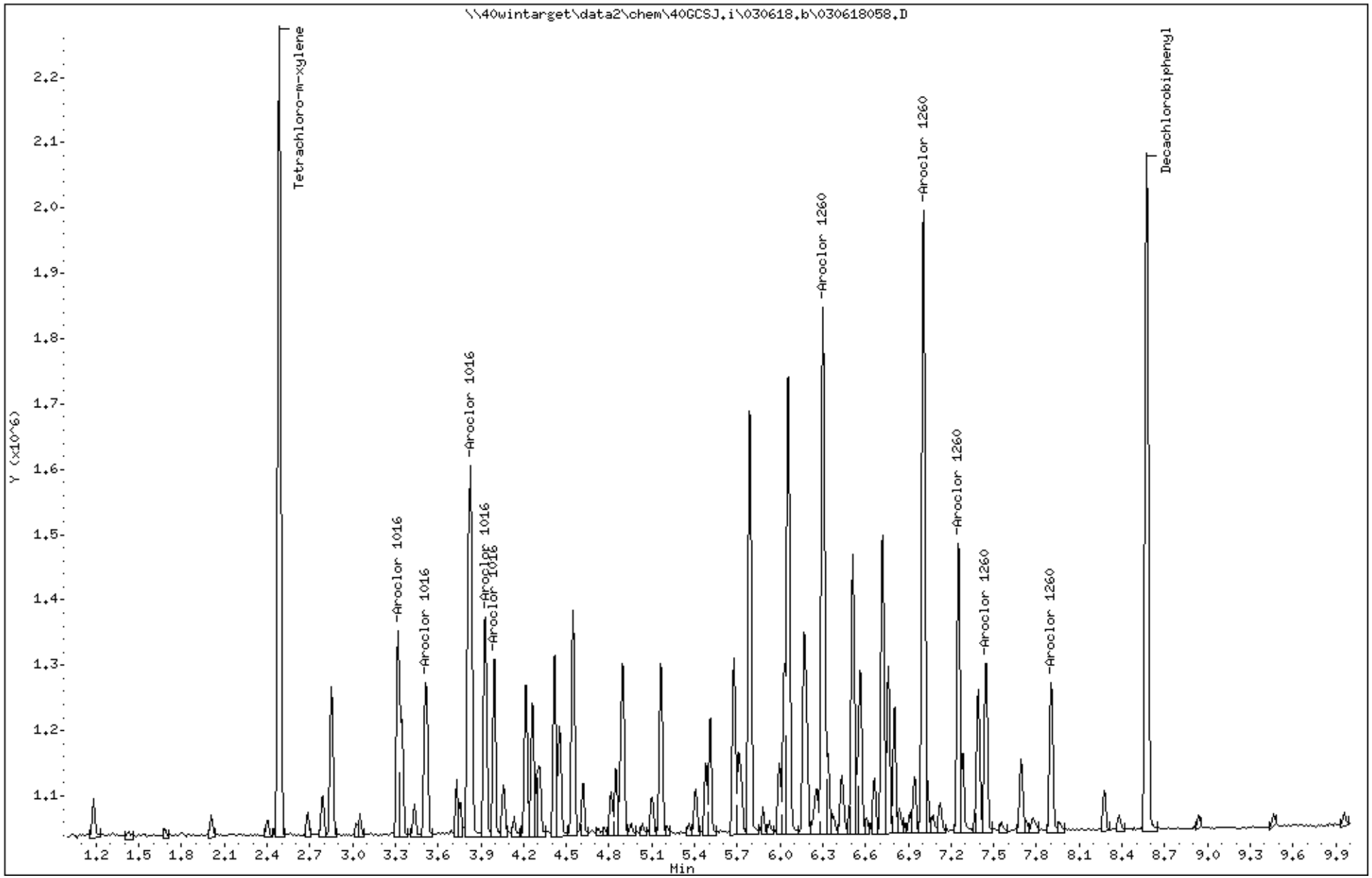
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

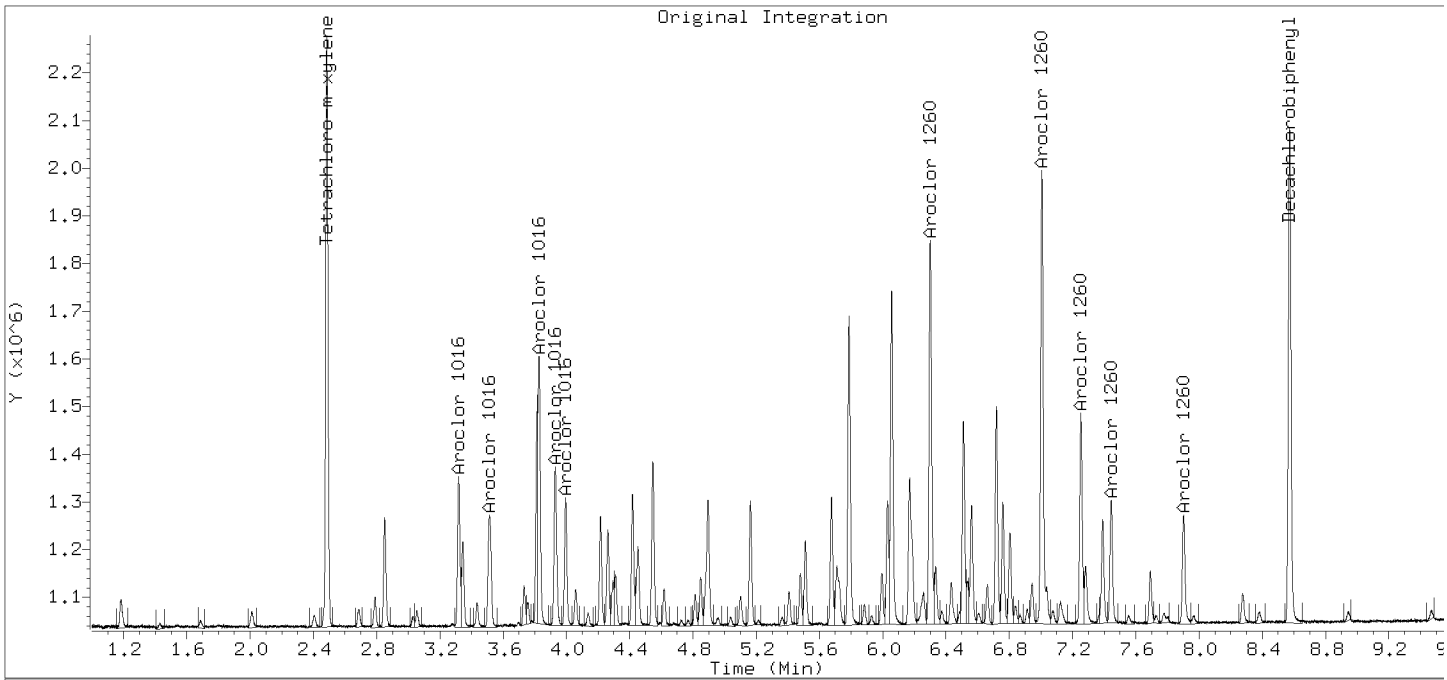
Operator: BLM

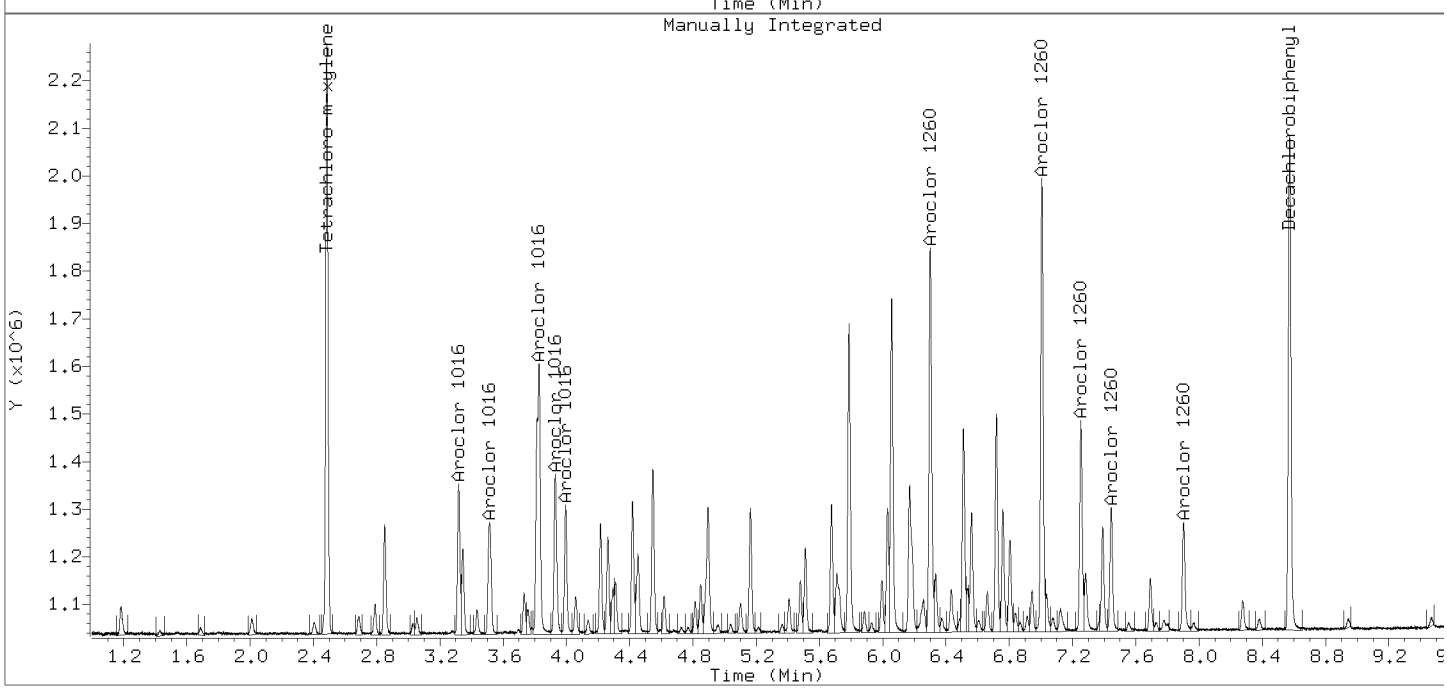
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

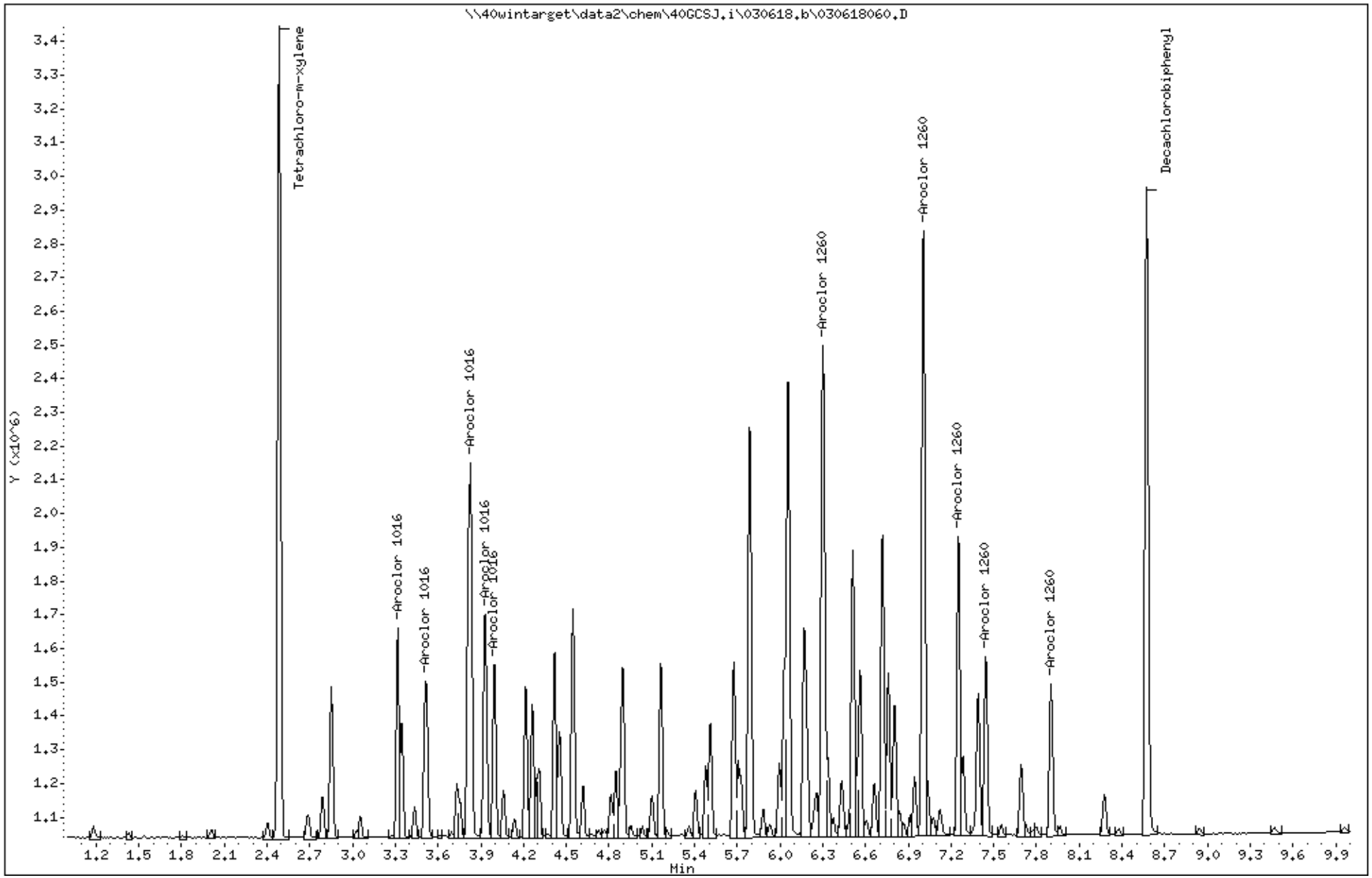
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

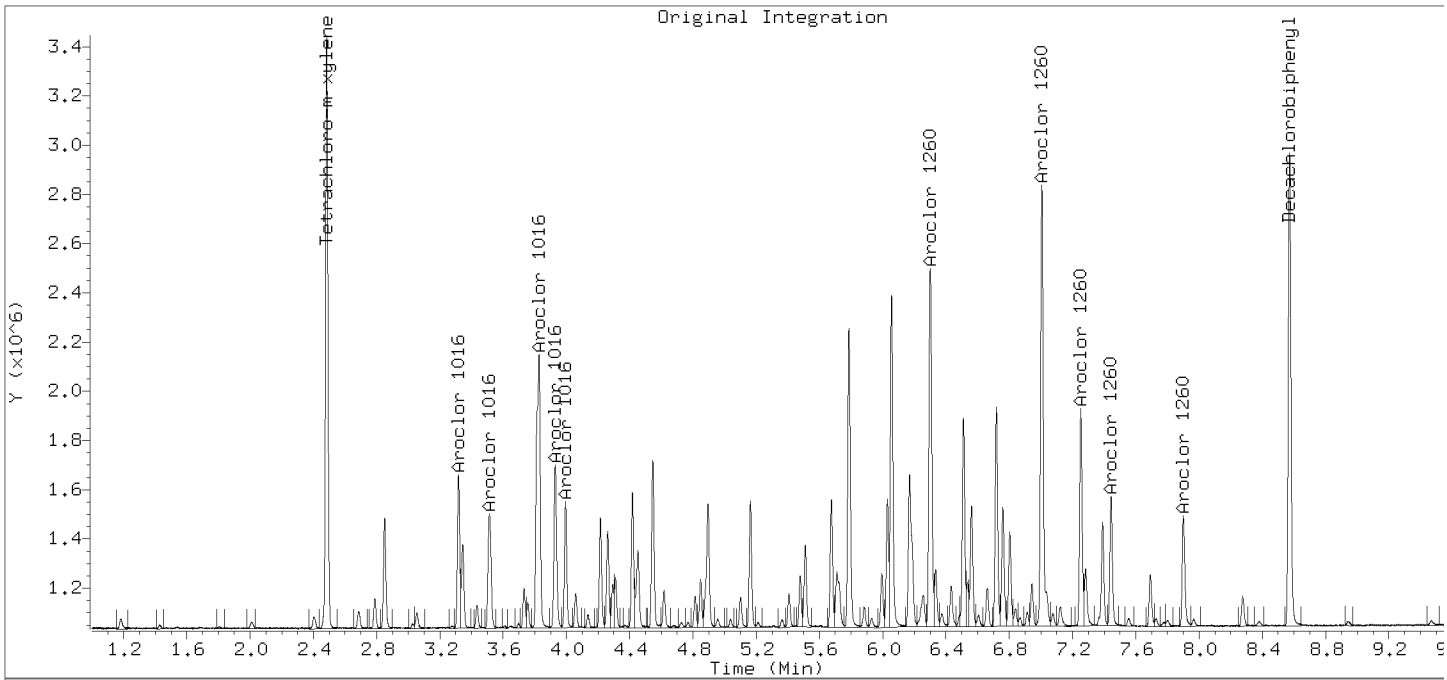
Operator: BLM

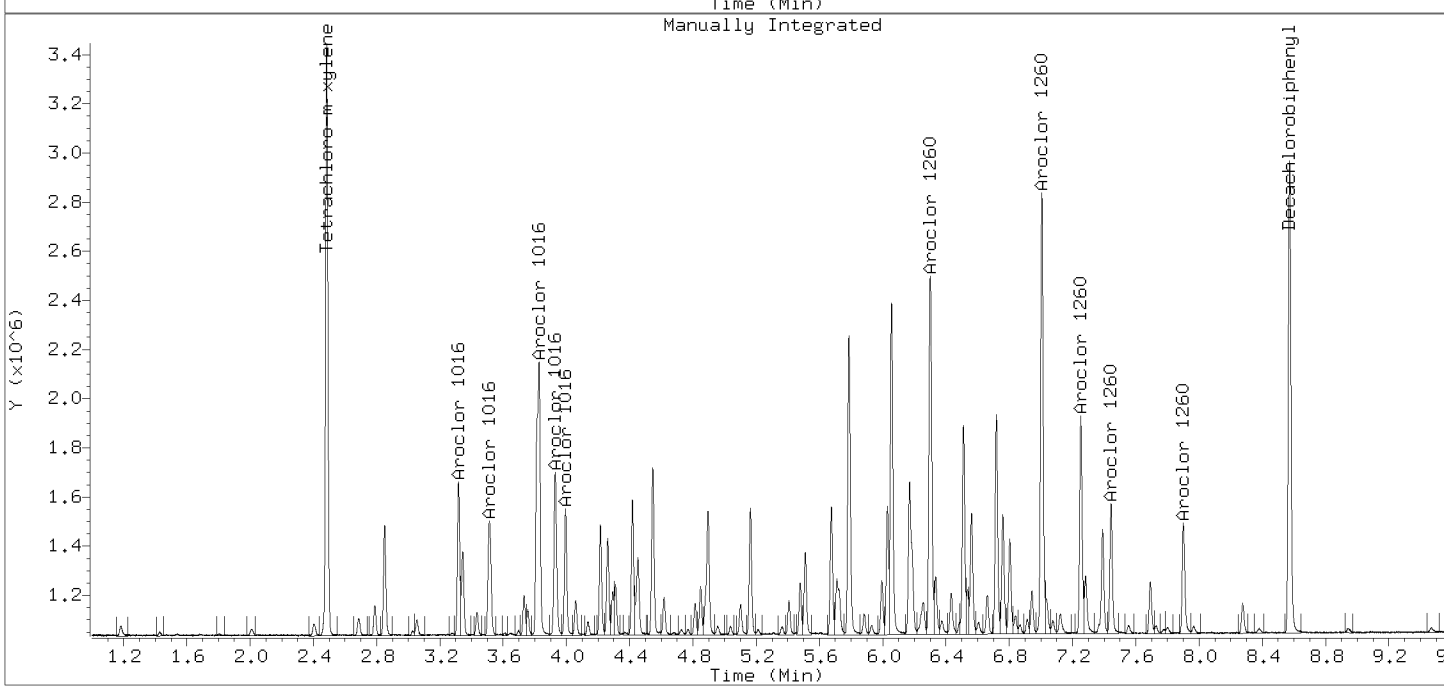
Column phase: ZB-1ms

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.

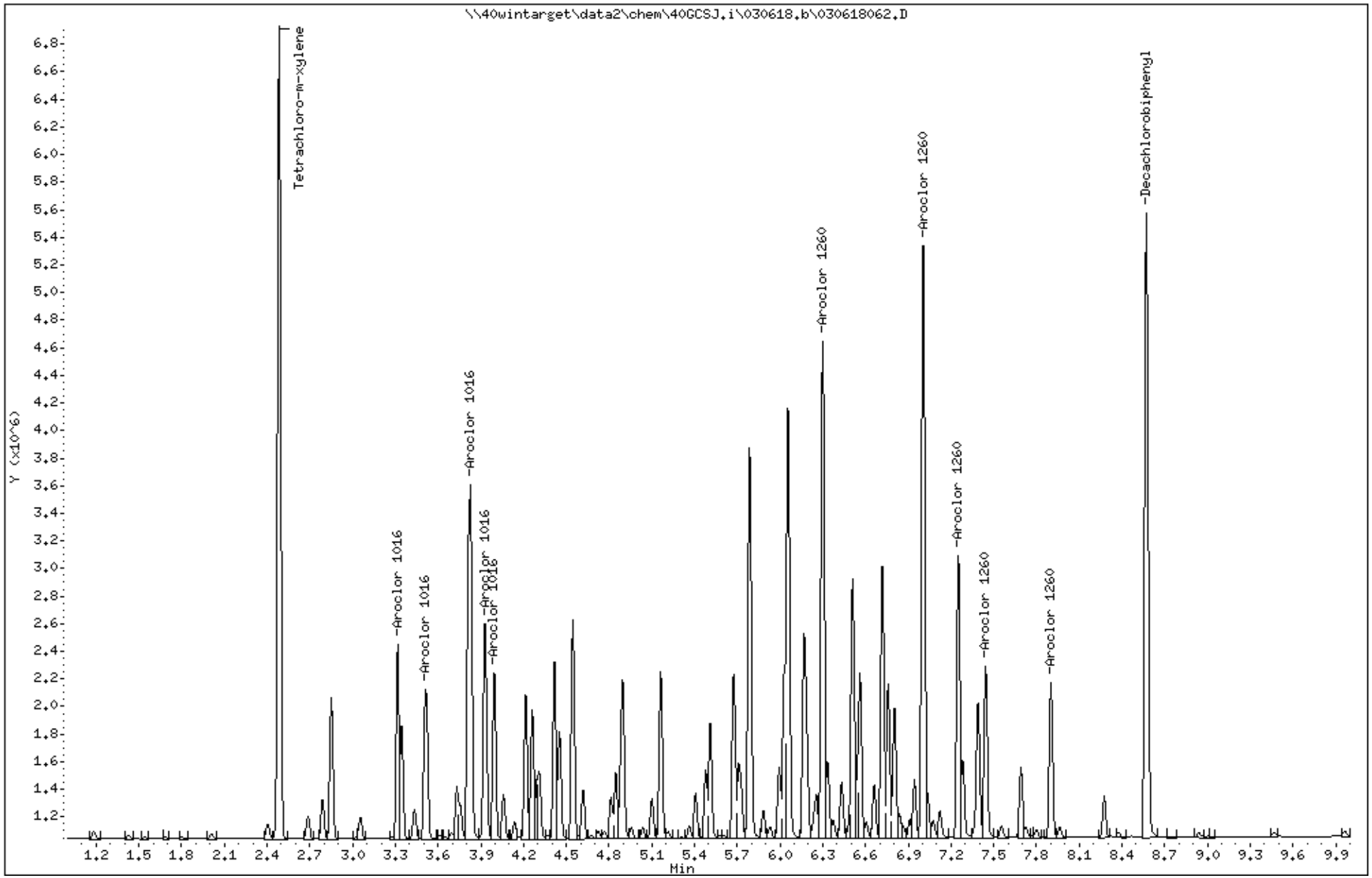
QC Flag Legend

Review Codes Legend

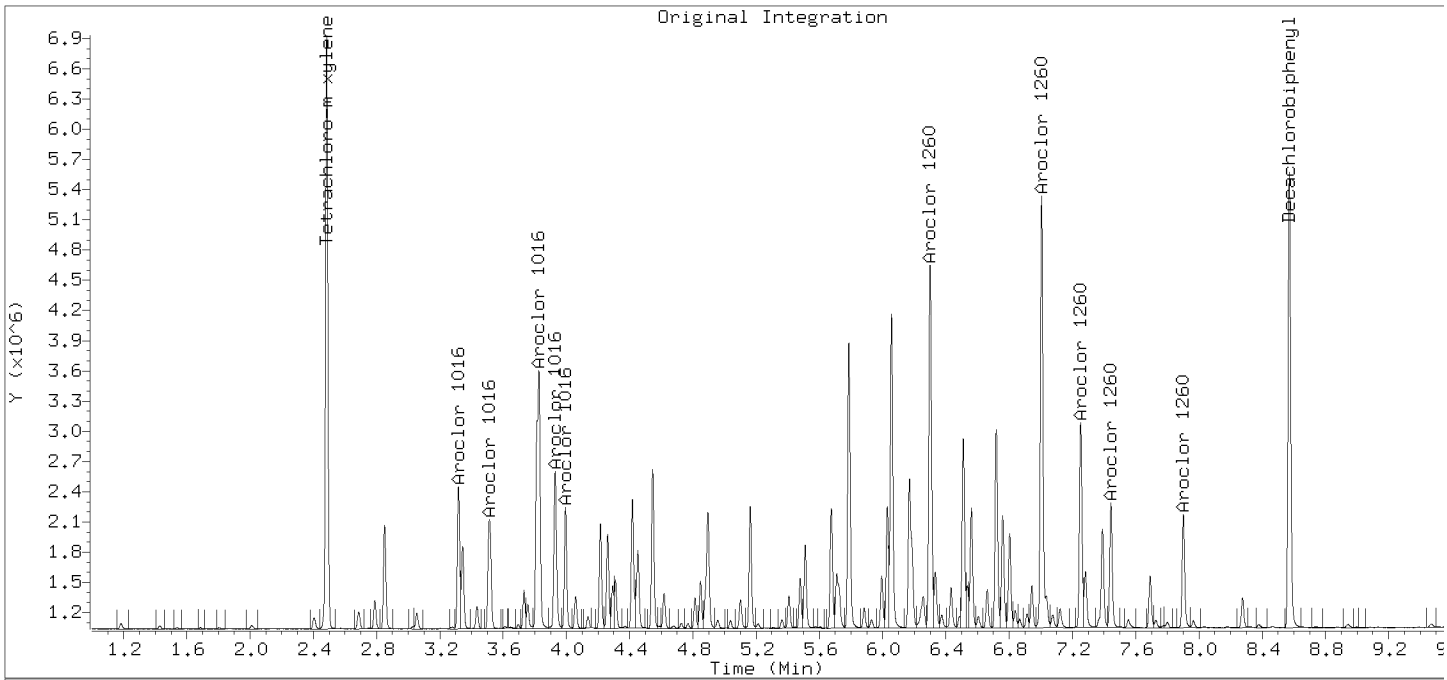
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

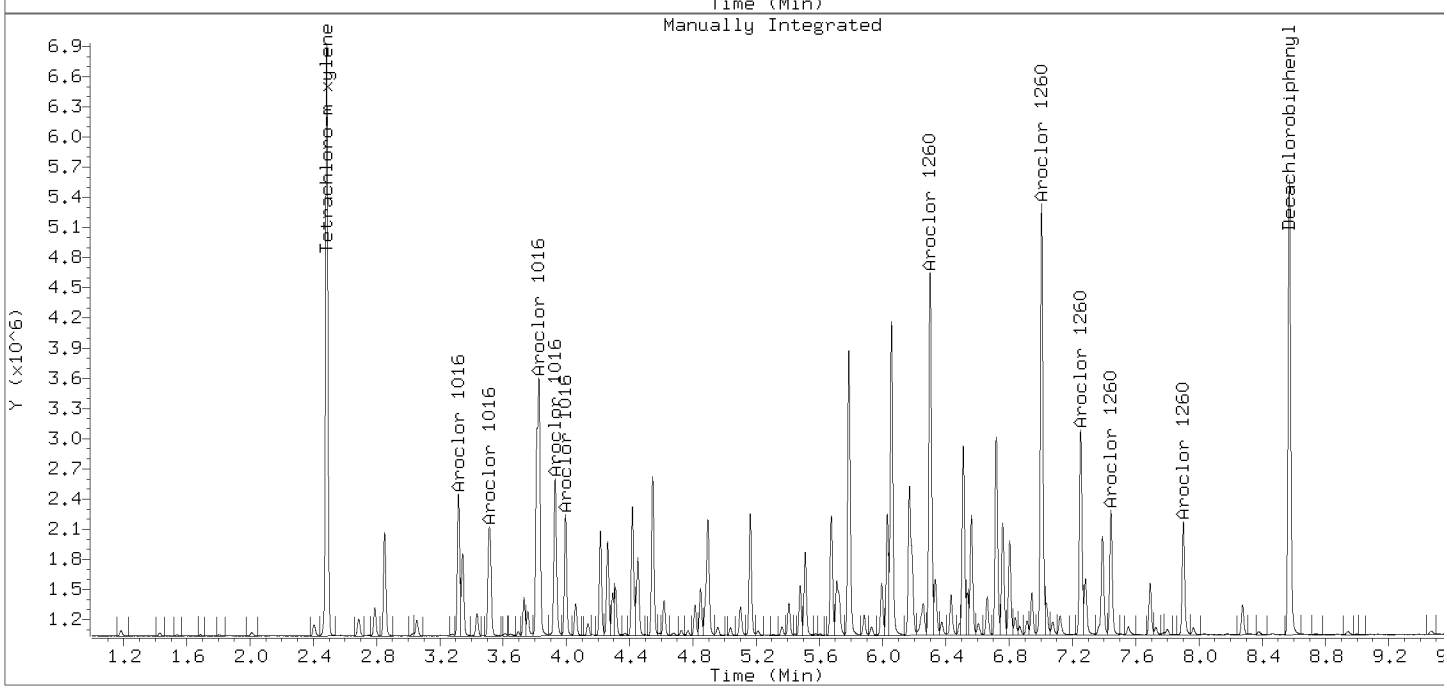
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

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

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

QC Flag Legend

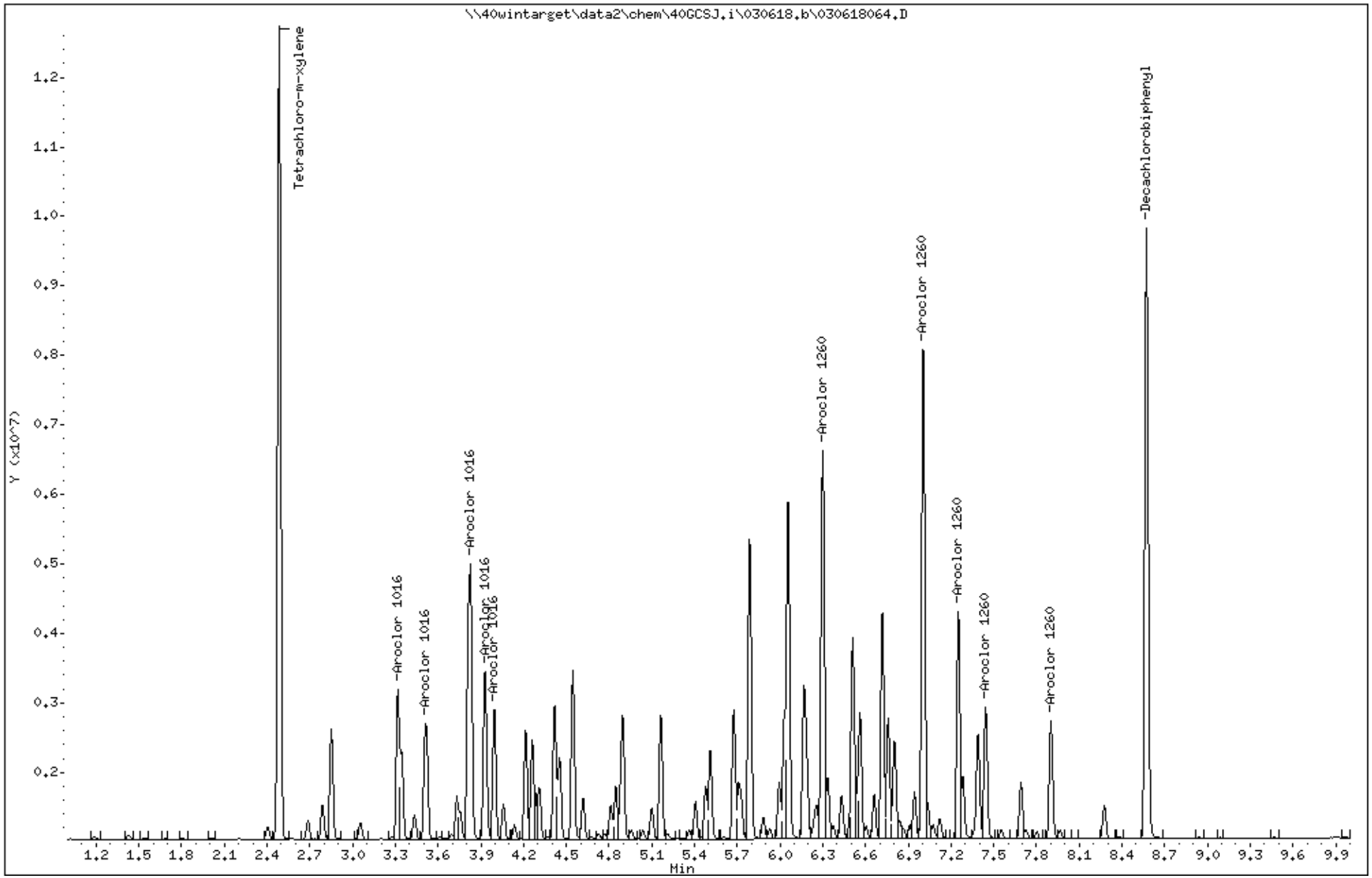
M - Compound response manually integrated.

Review Codes Legend

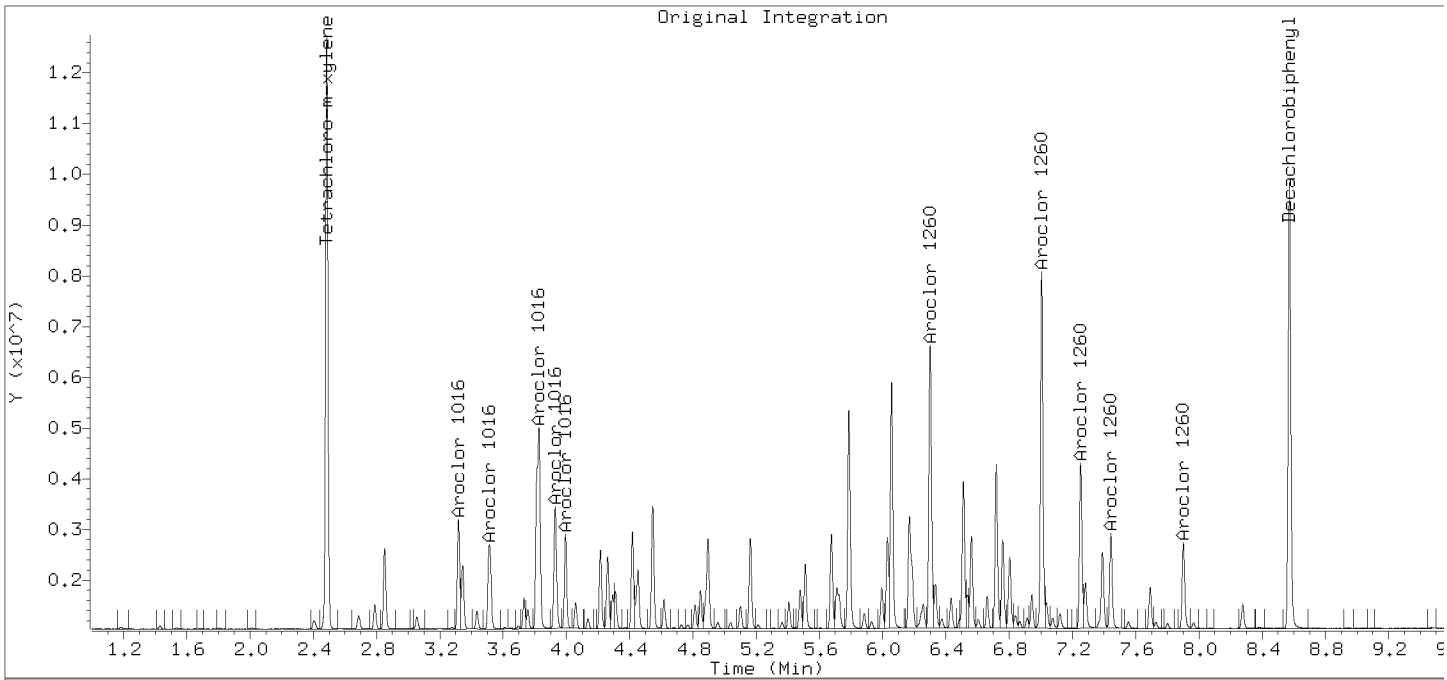
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

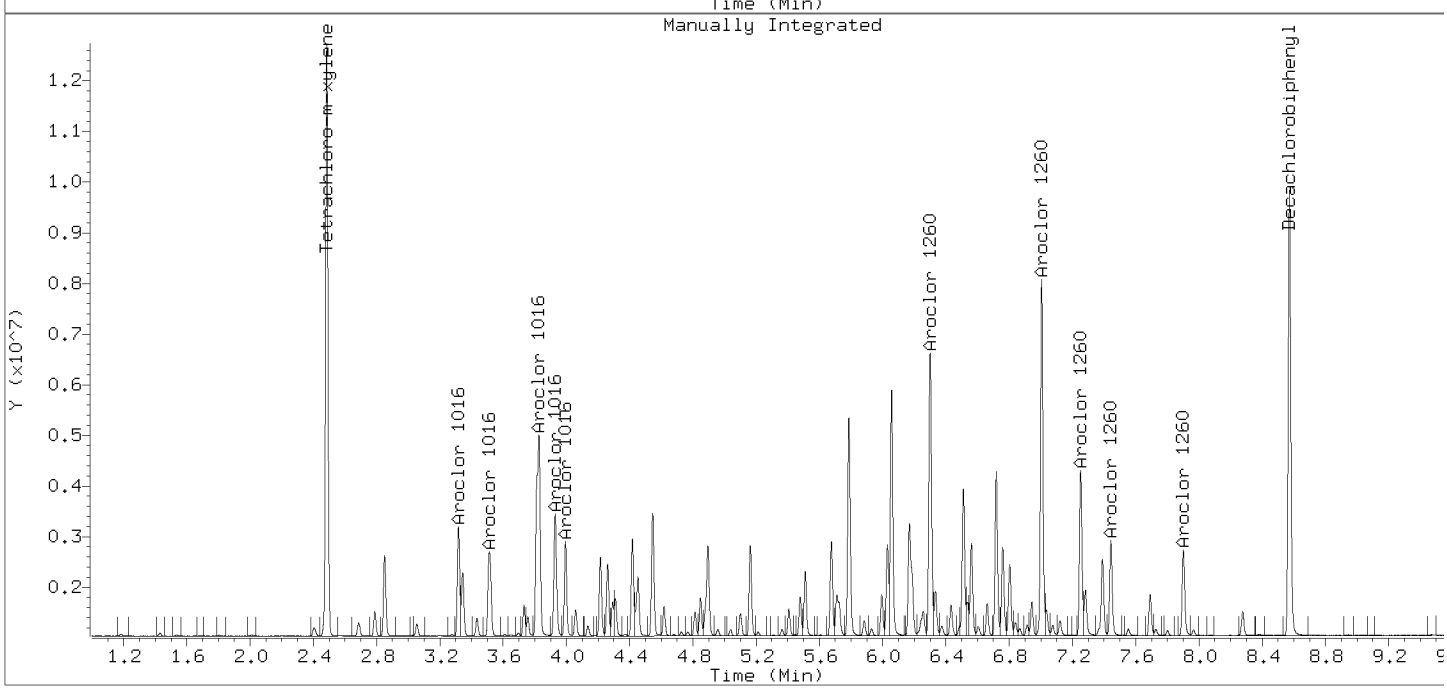
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Date : 06-MAR-2018 19:23
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

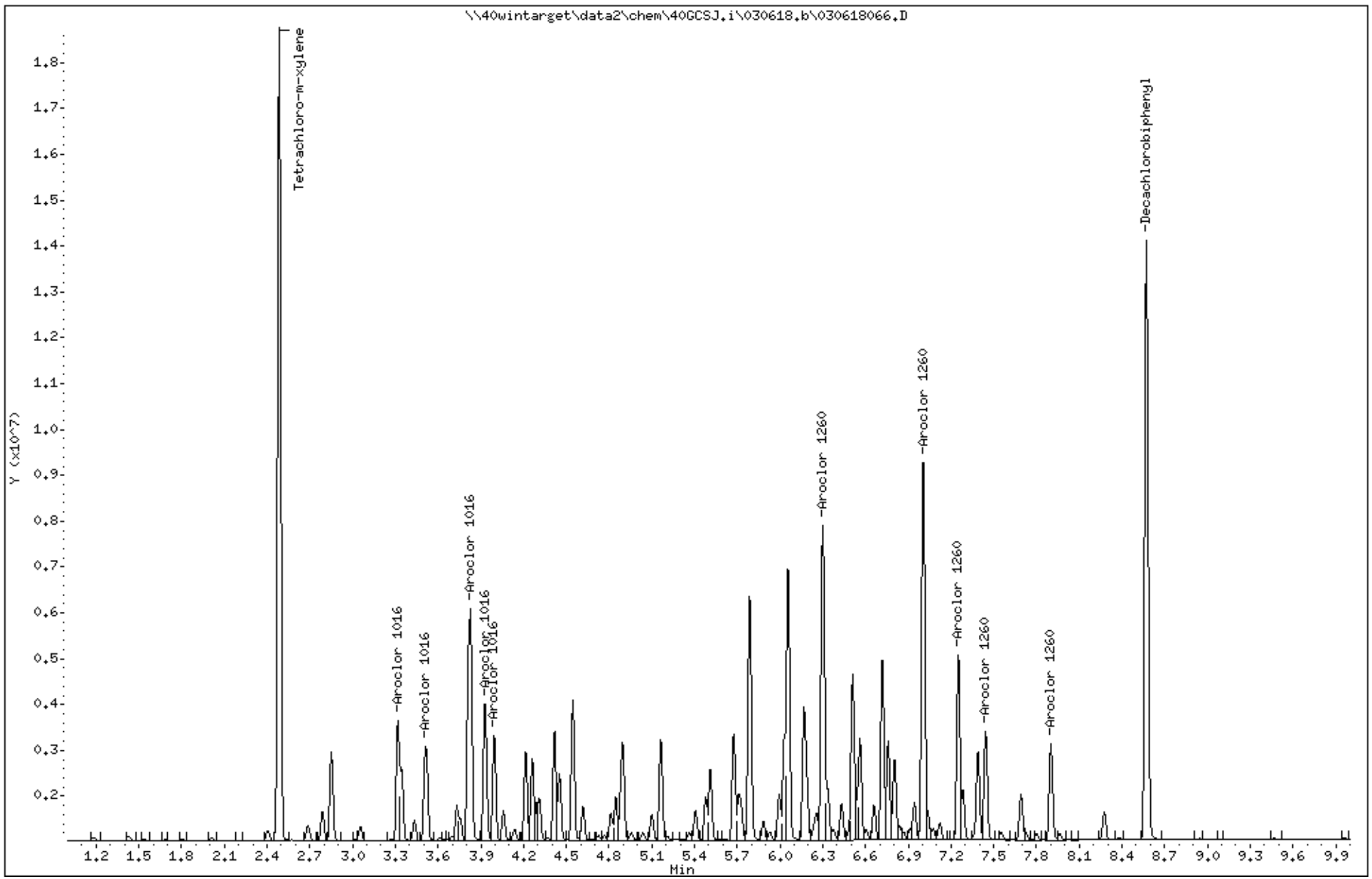
M - Compound response manually integrated.

Review Codes Legend

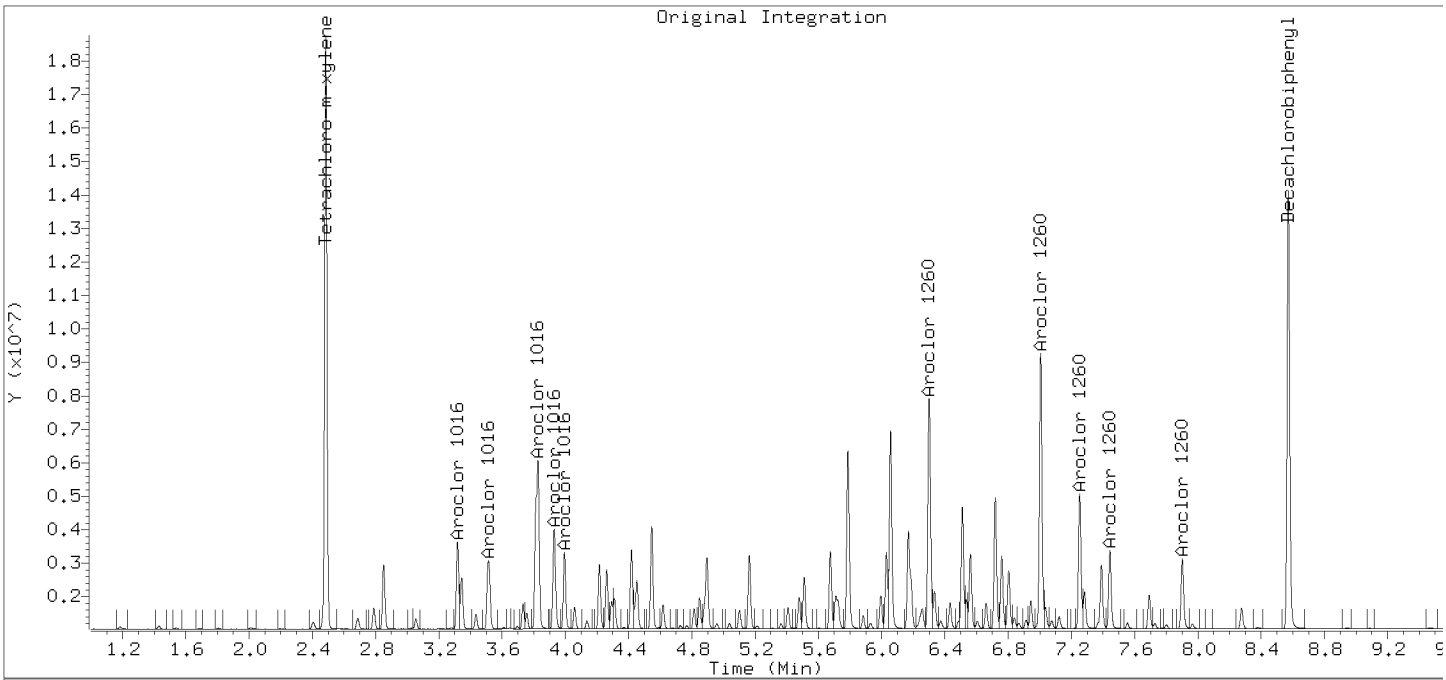
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

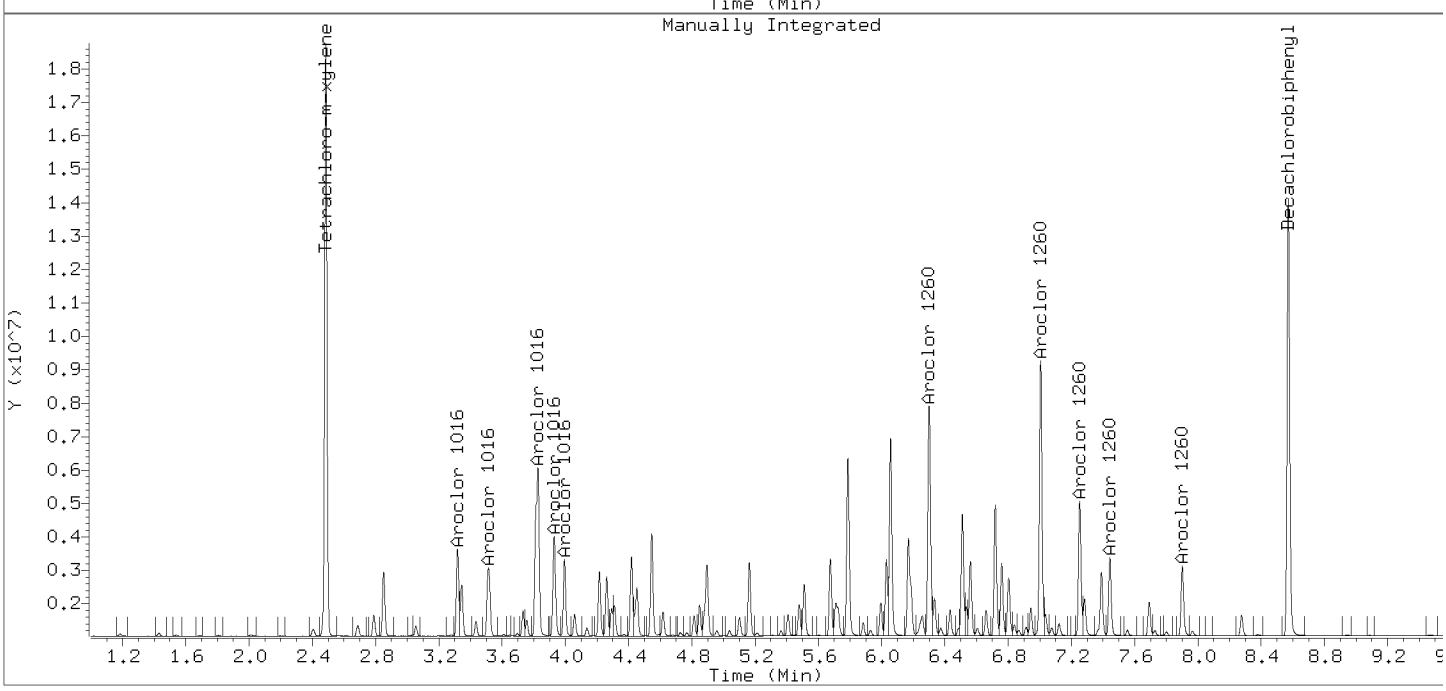
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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.: 40157703

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.: 40157703

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.: 40157703

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.: 40157703

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.: 40157703

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.

10879472CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 13:35

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

Lab File ID: 041018.B\041018005.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157703

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	3095052.00	0.4616
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3106766.00	0.2505
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	8509670.00	-3.9734
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3663310.00	-3.0928
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2475860.00	-4.8971
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	8453318.00	-4.6154
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	9559216.00	-4.5450
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4522726.00	-5.3784
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	2897864.00	-0.5916
Aroclor 1260	5	Averaged	7.899	7.867	7.935	2638735.95	2504900.00	-5.0720
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108268860.	-1.1785
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	125460580.	1.7563

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

SAMPLE NO.

10879473CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 16:29

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

Lab File ID: 041018.B\041018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157703

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.805	1.77	1.838	1041256.70	1046386.00	0.4926
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	547456.000	-0.0706
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1395476.00	0.8775
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1103498.00	-0.2054
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3384472.00	3.9649
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	107819840.	-1.5883
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	123498360.	0.1649

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

SAMPLE NO.

10883265CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40157703

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

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

SAMPLE NO.

10883264CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

Lab File ID: 041018.B\041018040.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157703

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.316	3.284	3.352	2533198.70	2657754.00	4.9169
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2626344.00	4.2186
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7550162.00	6.0944
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3225182.00	6.0380
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2162356.00	5.5968
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	110791280.	1.1238
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124422140.	0.9141

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

SAMPLE NO.

10883263CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 14:32

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

Lab File ID: 041118.B\041118004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157703

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.318	3.284	3.352	3080830.60	3322482.00	7.8437
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3324720.00	7.2836
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9525296.00	7.4873
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	4059162.00	7.3789
Aroclor 1016	5	Averaged	3.995	3.96	4.028	2603349.30	2727816.00	4.7810
Aroclor 1260	1	Averaged	6.3	6.266	6.334	8862352.50	9578748.00	8.0836
Aroclor 1260	2	Averaged	7.005	6.972	7.04	10014373.3	10891814.0	8.7618
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	5227694.00	9.3705
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3175498.00	8.9323
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2876768.00	9.0207
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	120044140.	9.5693
Tetrachloro-m-xylene		Averaged	2.486	2.45	2.518	123295106.	131535220.	6.6832

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

SAMPLE NO.

10883259CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 17:42

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

Lab File ID: 041118.B\041118016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157703

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	1045244.00	0.3829
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	542802.000	-0.9201
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1453902.00	5.1011
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1116546.00	0.9746
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3437198.00	5.5846
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	111926100.	2.1596
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	123101260.	-0.1572

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

SAMPLE NO.

10900691CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 14:33
Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018
Lab File ID: 041318.B\041318004.D
Init. Calib. Time(s): 11:02 19:39
SDG No.: 40157703

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

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

SAMPLE NO.

10900696CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40157703

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.804	1.77	1.838	1041256.70	1047946.00	0.6424
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	547976.000	0.0243
Aroclor 1221	3	Averaged	2.687	2.654	2.722	1383336.70	1431008.00	3.4461
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1119668.00	1.2569
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3436568.00	5.5652
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	112176180.	2.3879
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	123672060.	0.3057

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

SAMPLE NO.

10901015CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 20:53

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

Lab File ID: 041318.B\041318028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157703

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	2762406.00	10.4952
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1435340.00	7.1324
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4175178.00	11.3462
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1767726.00	10.0364
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1180628.00	8.1284
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	112726760.	2.8904
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	121487600.	-1.4660

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

SAMPLE NO.

10901016CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 21:57

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

Lab File ID: 041318.B\041318032.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157703

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	2655952.00	4.8458
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2634502.00	4.5423
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7602032.00	6.8233
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3253644.00	6.9738
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2177860.00	6.3540
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113469080.	3.5680
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122455180.	-0.6812

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

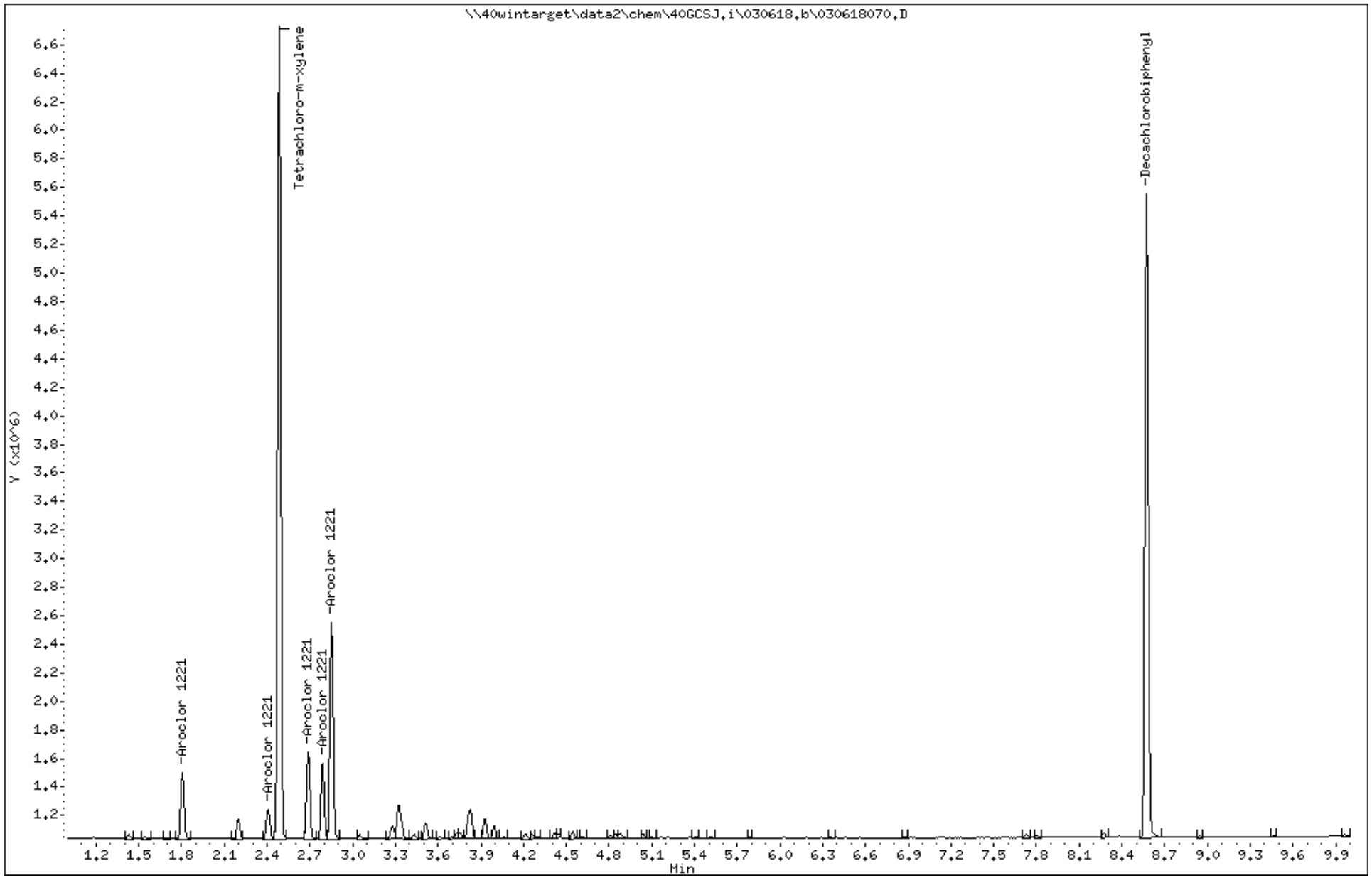
M - Compound response manually integrated.

Review Codes Legend

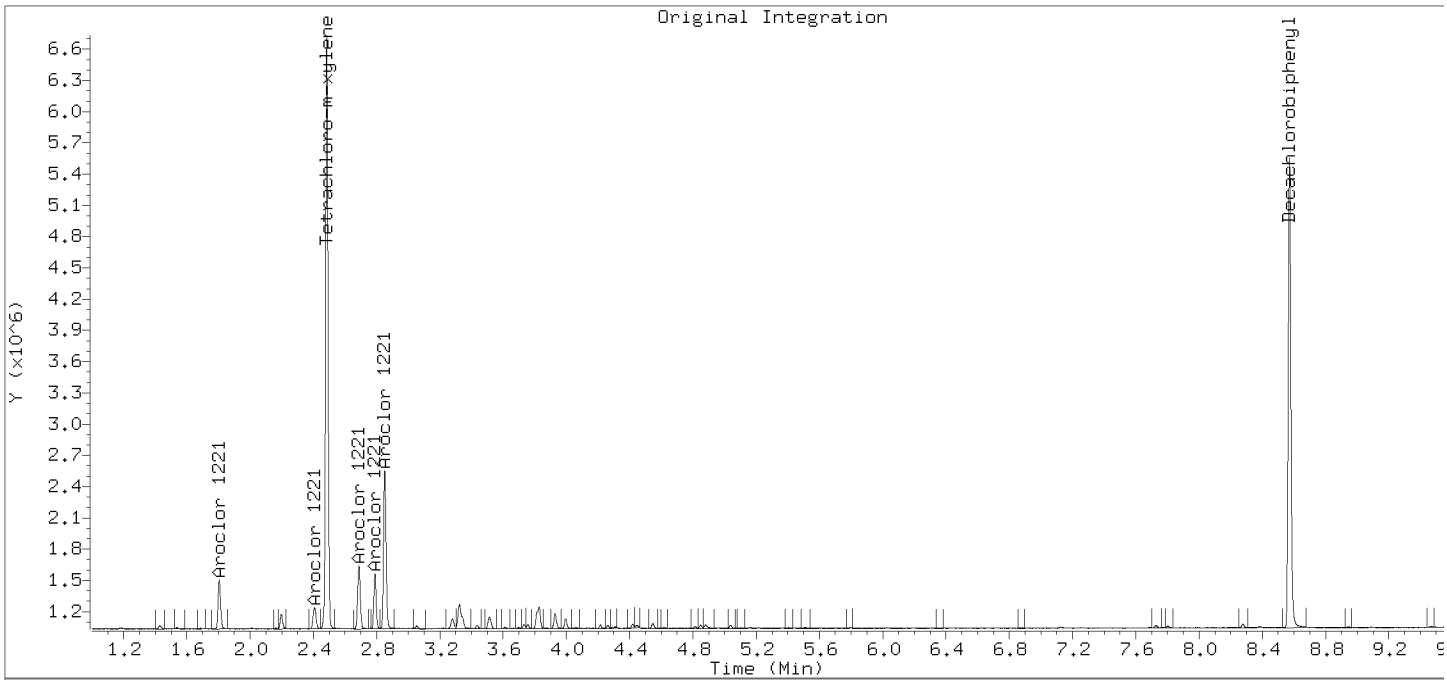
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

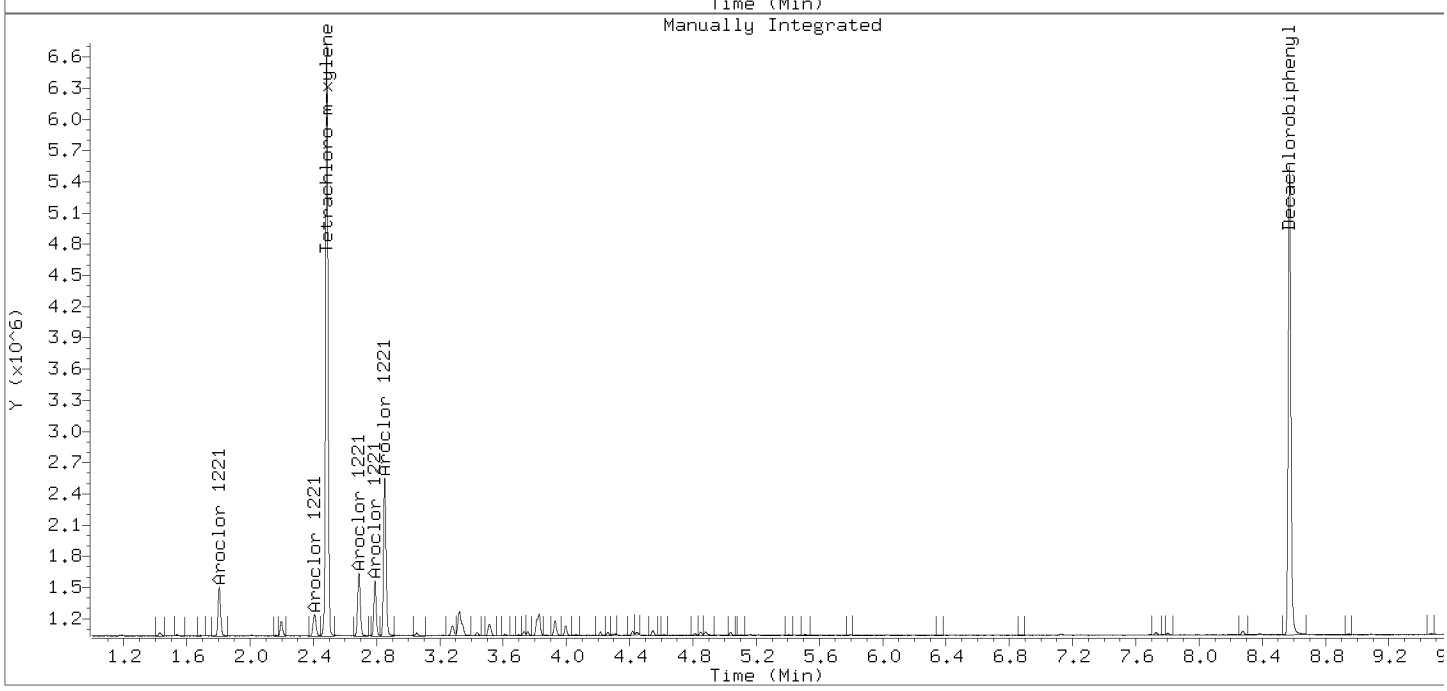
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

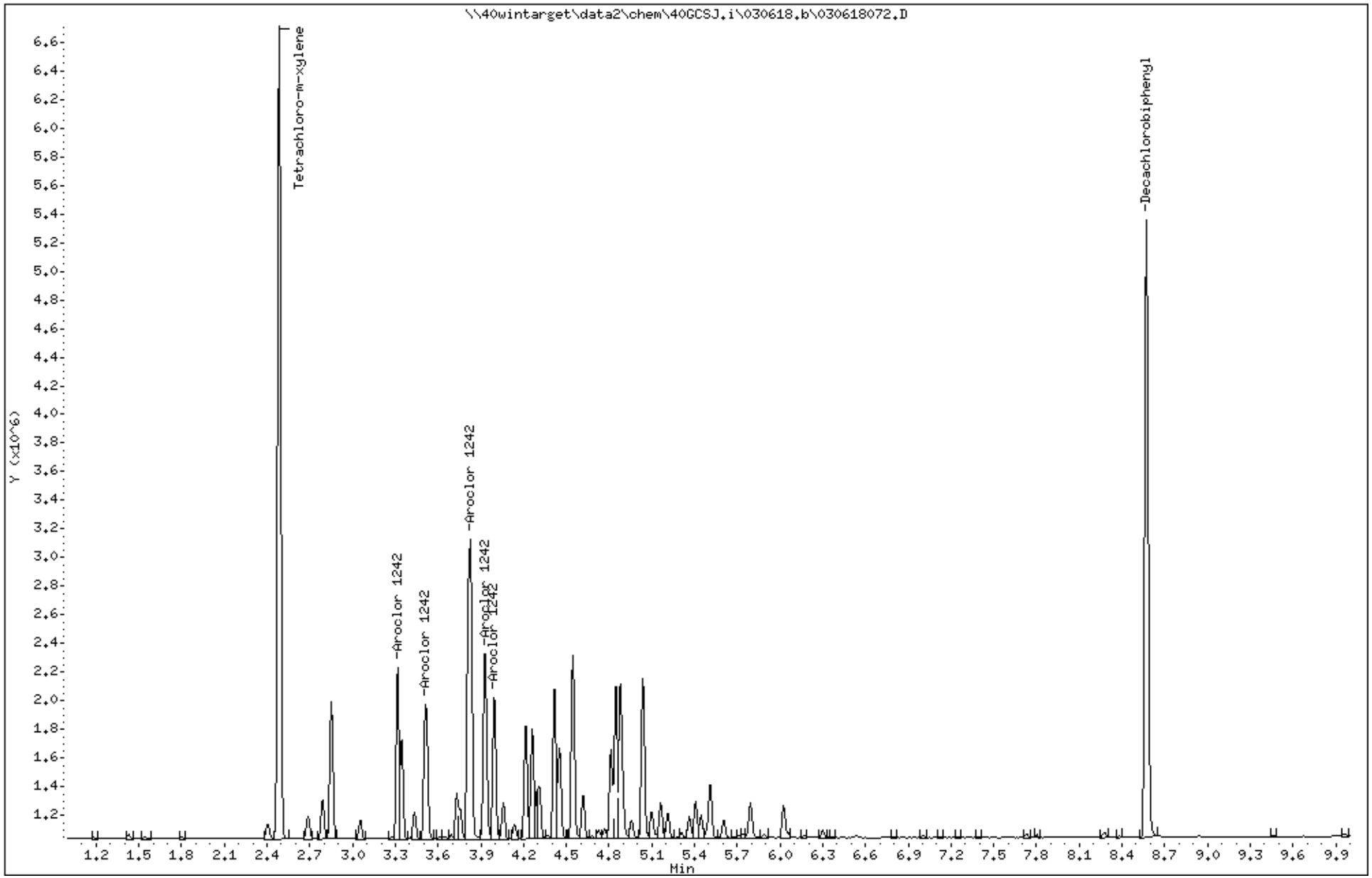
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i

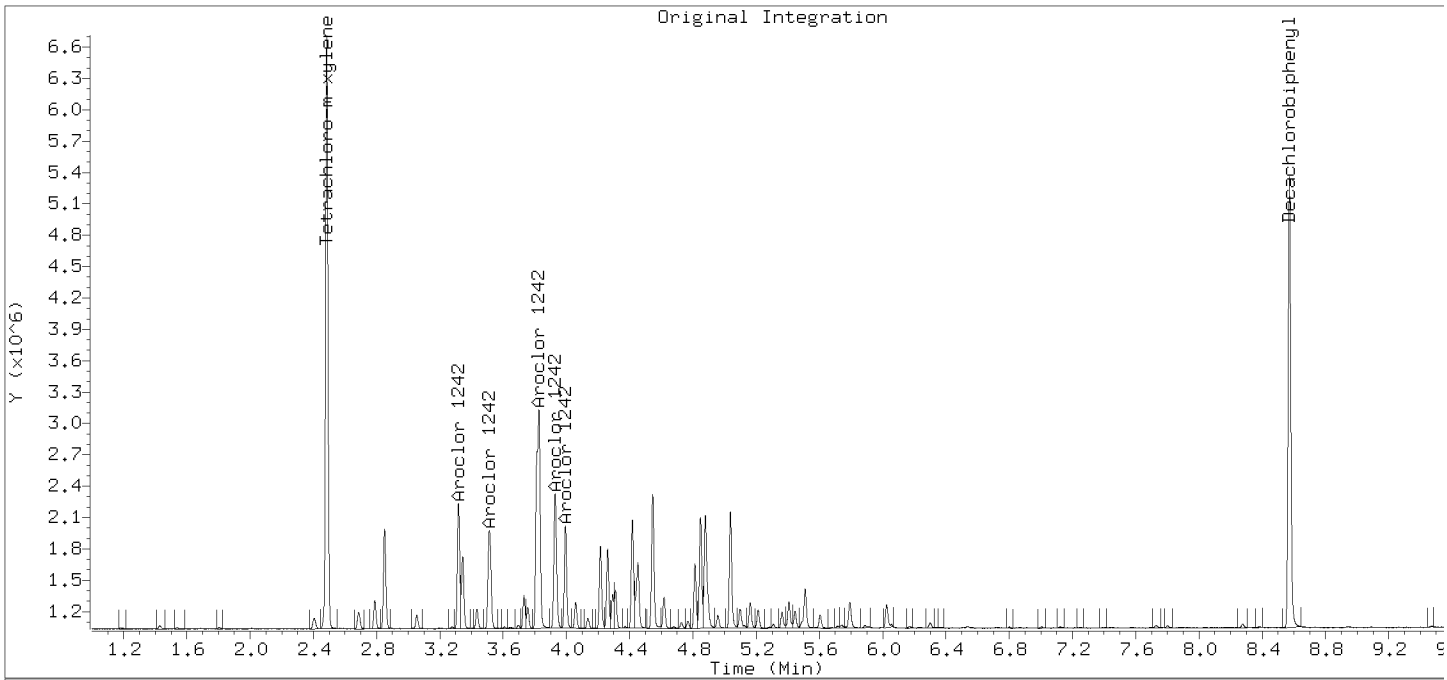
Operator: BLM

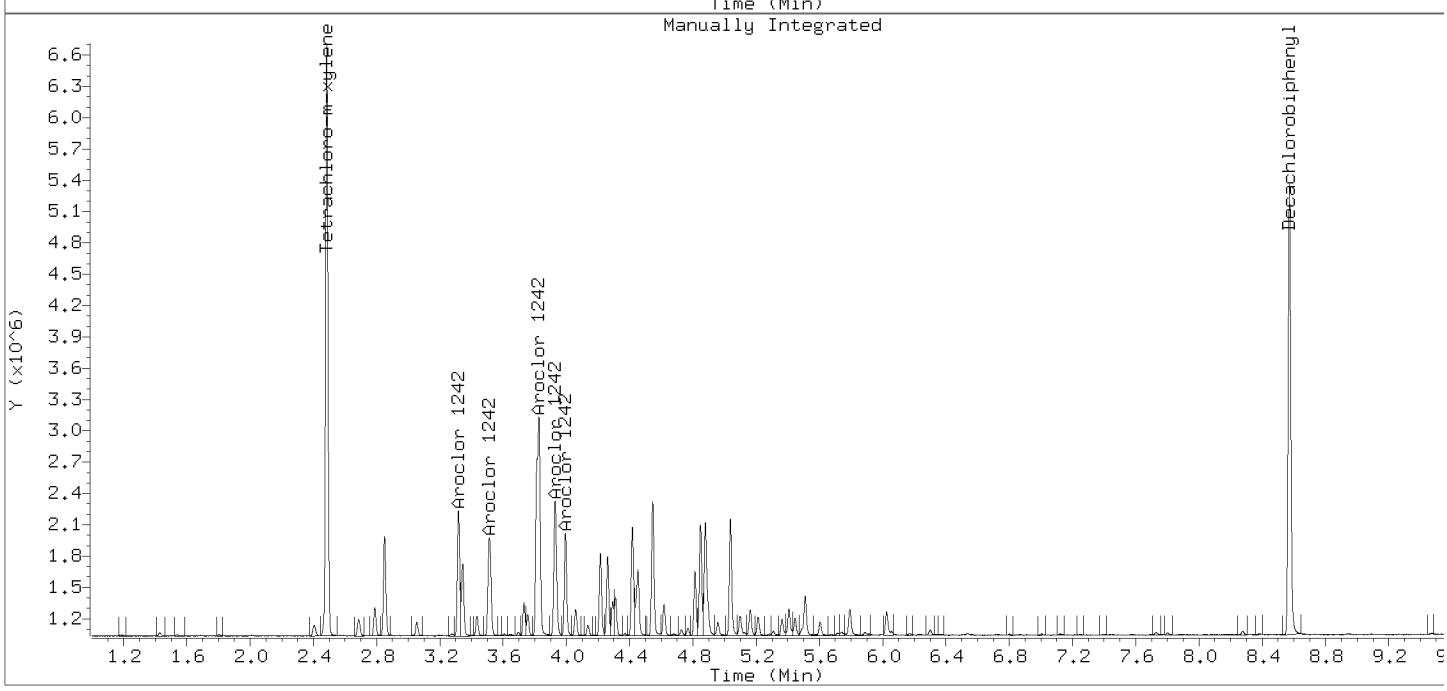
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

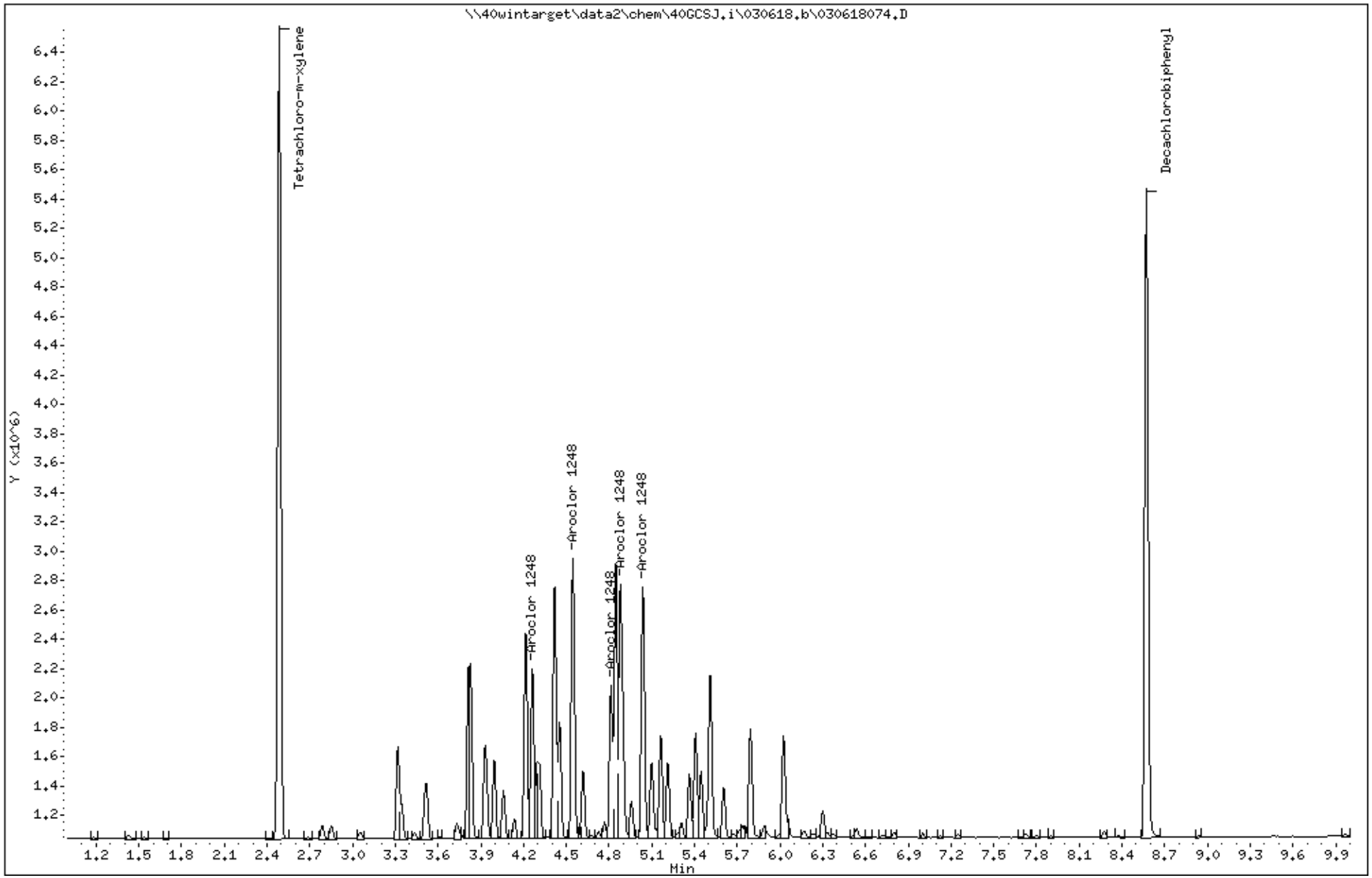
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

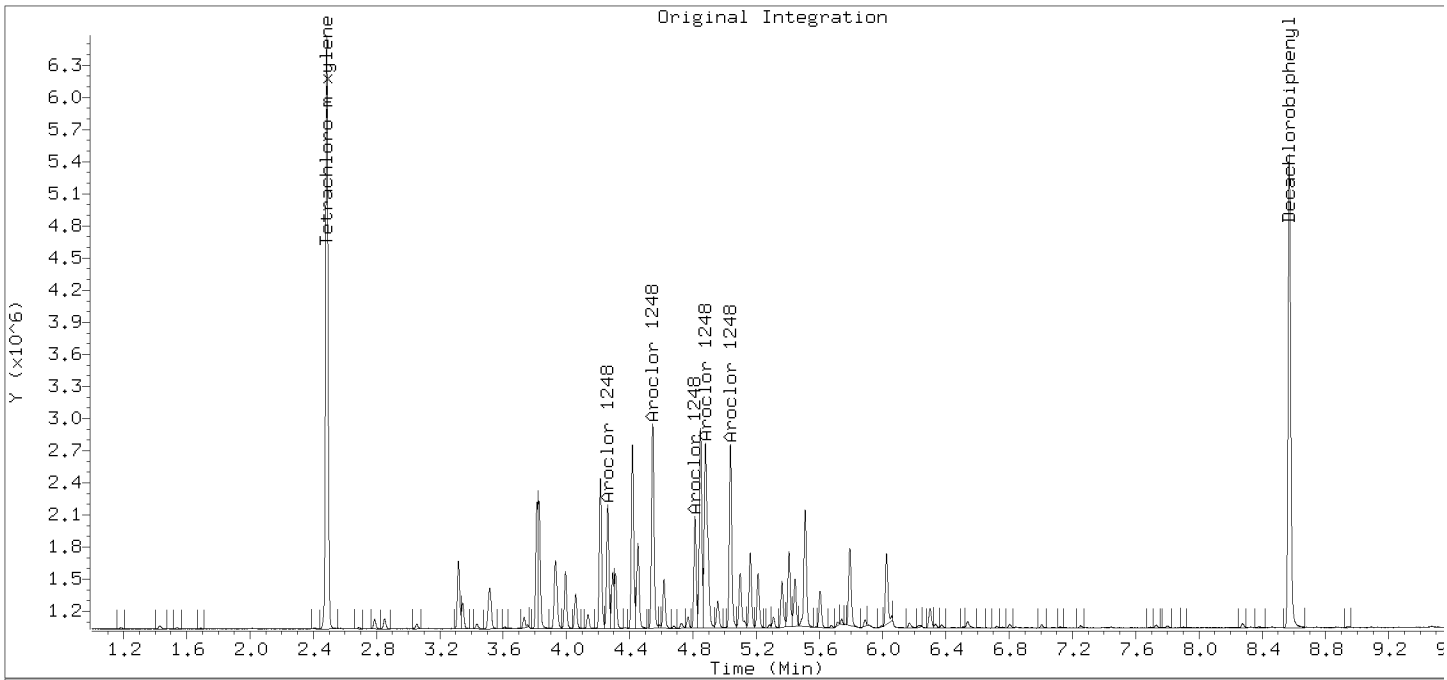
Operator: BLM

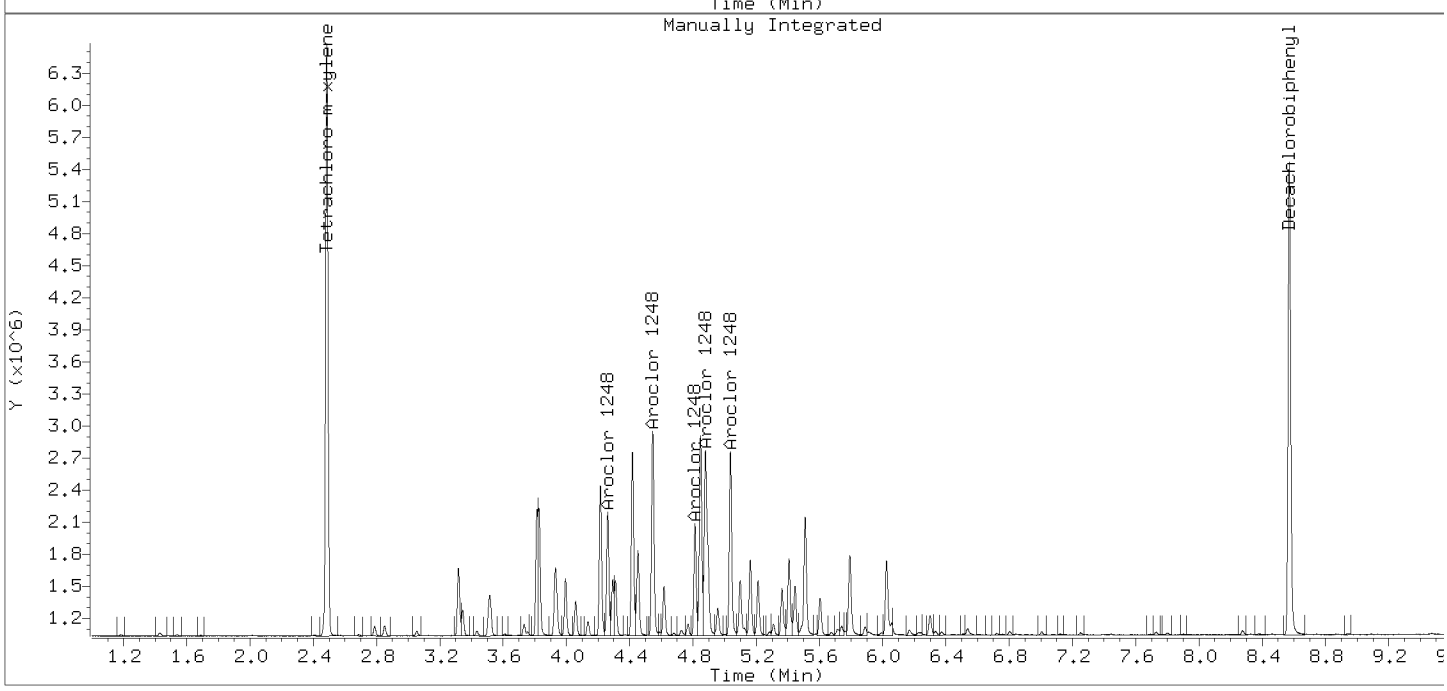
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

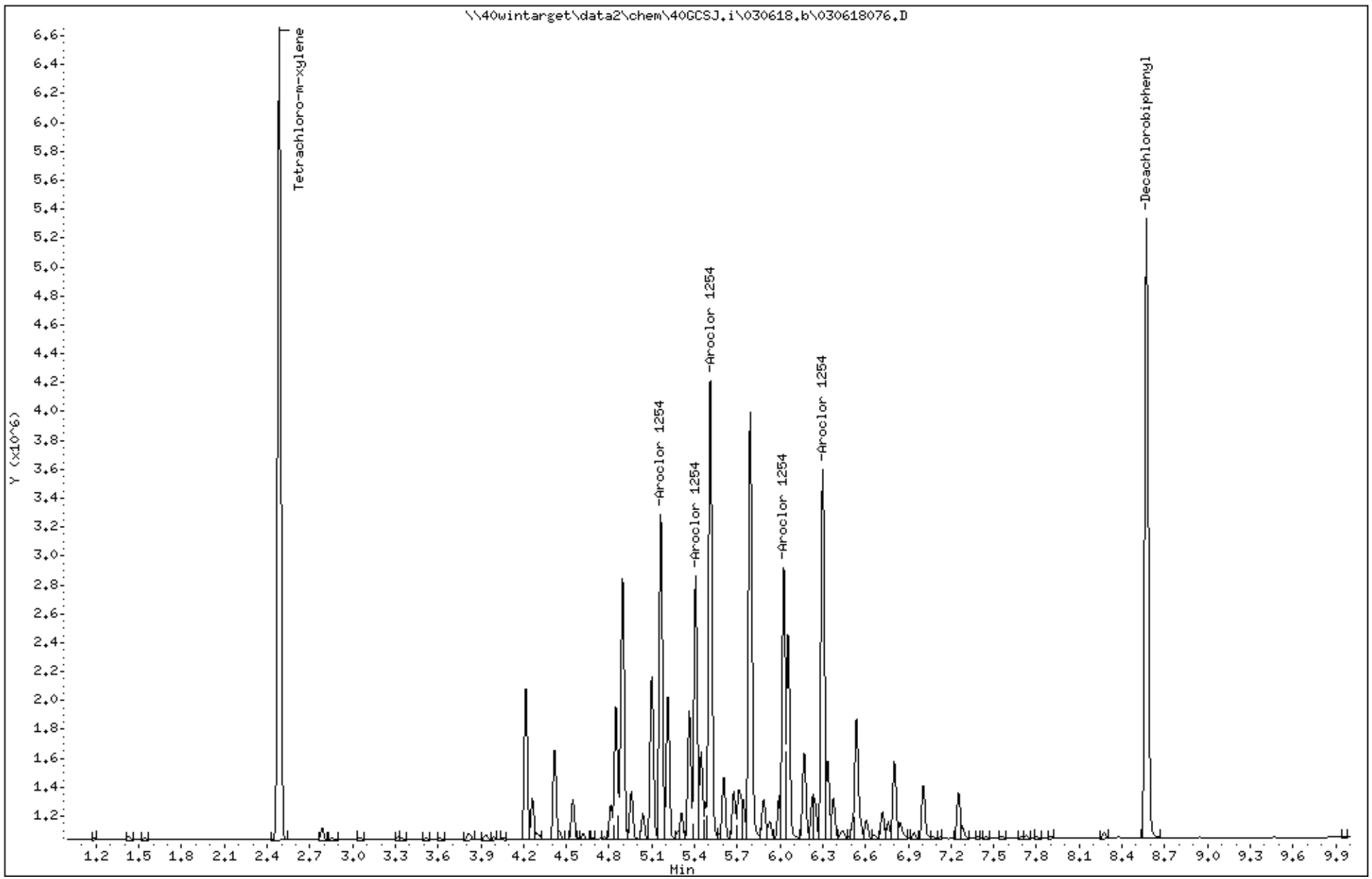
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

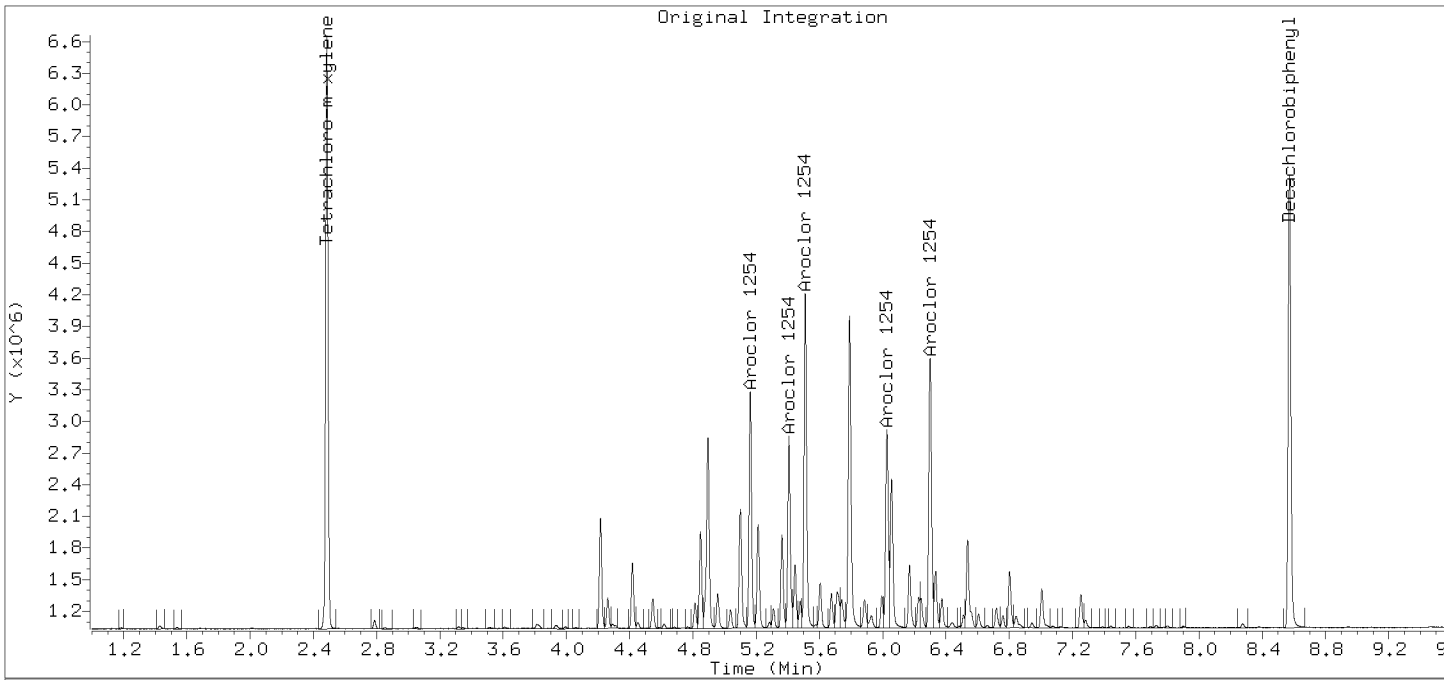
Operator: BLM

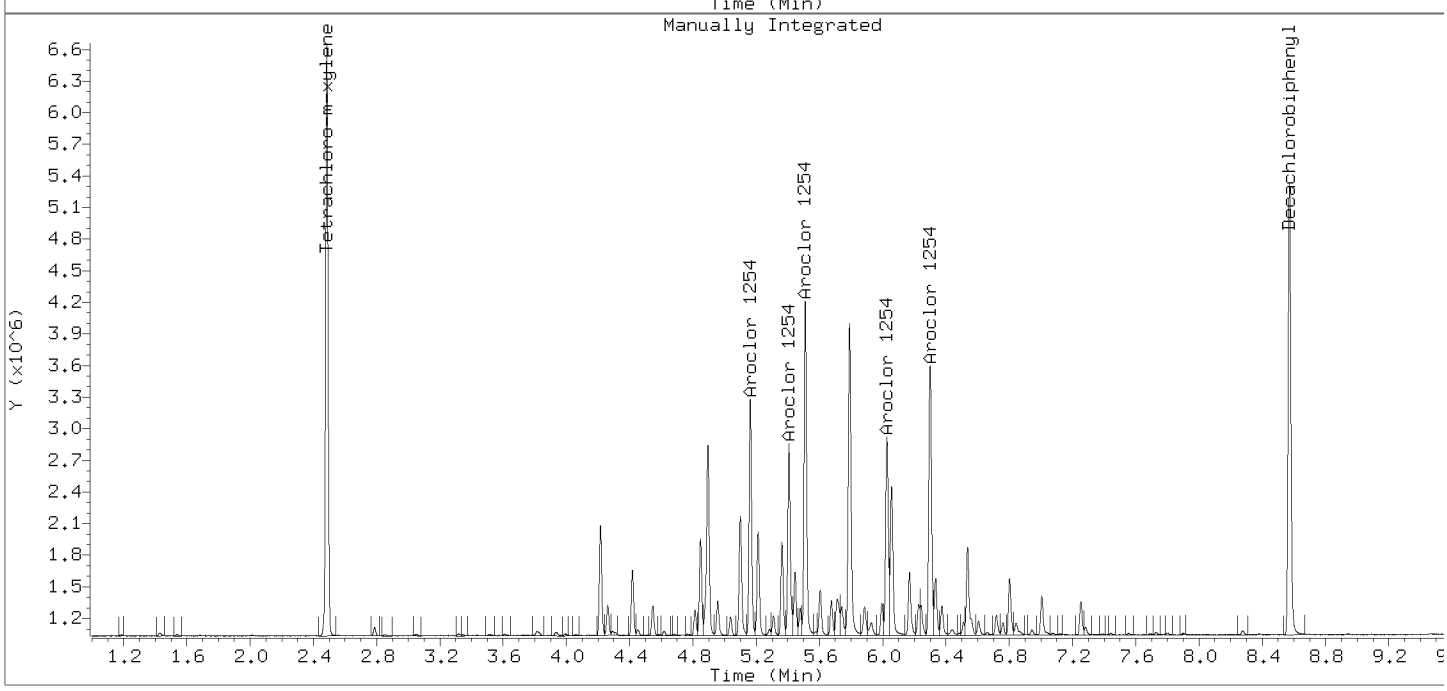
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

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

Total unknown % area = 56

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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.

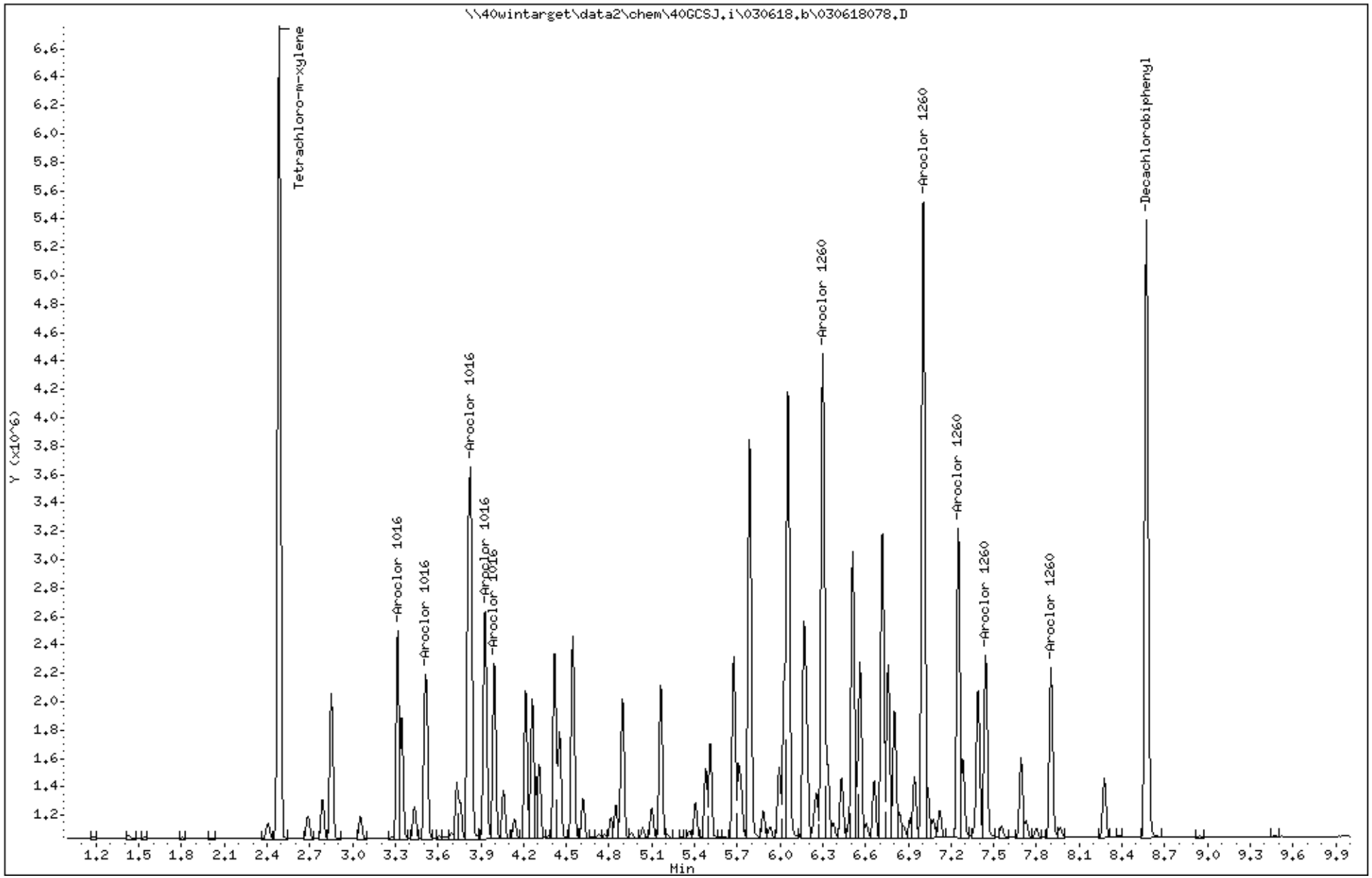
QC Flag Legend

Review Codes Legend

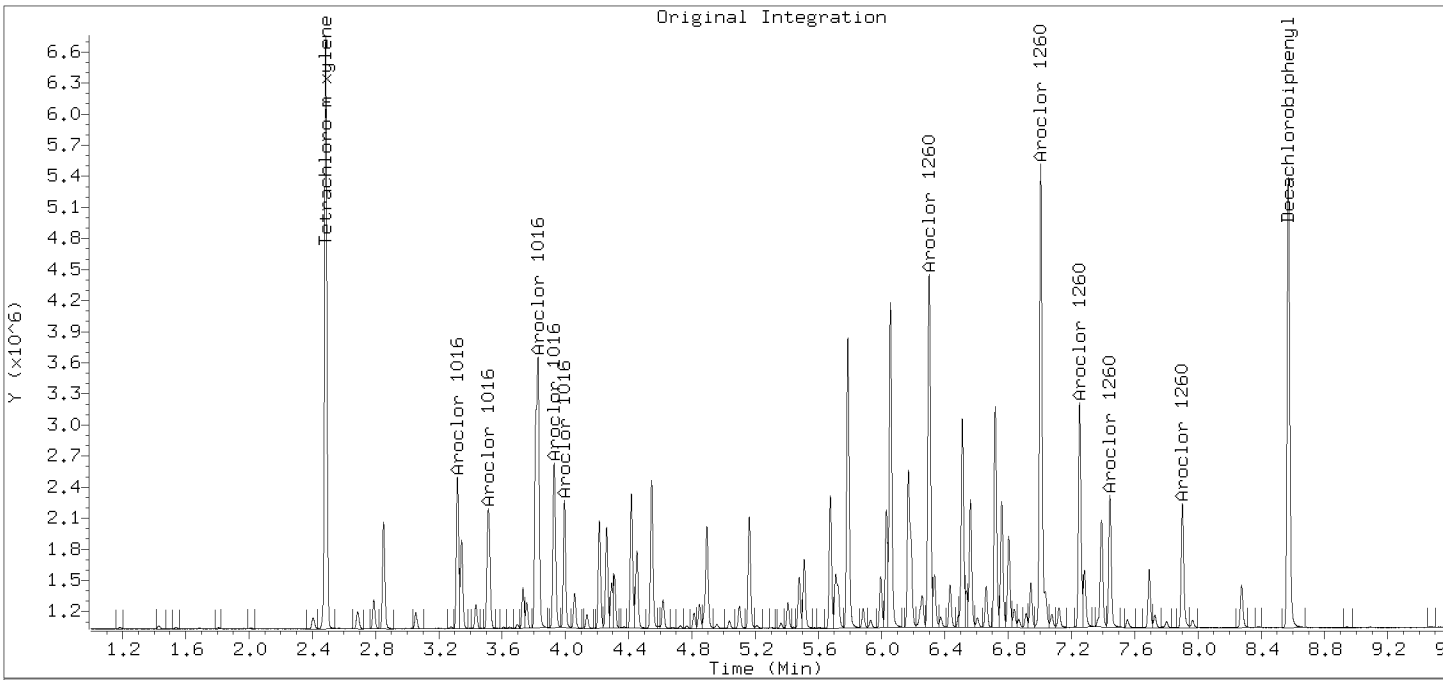
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

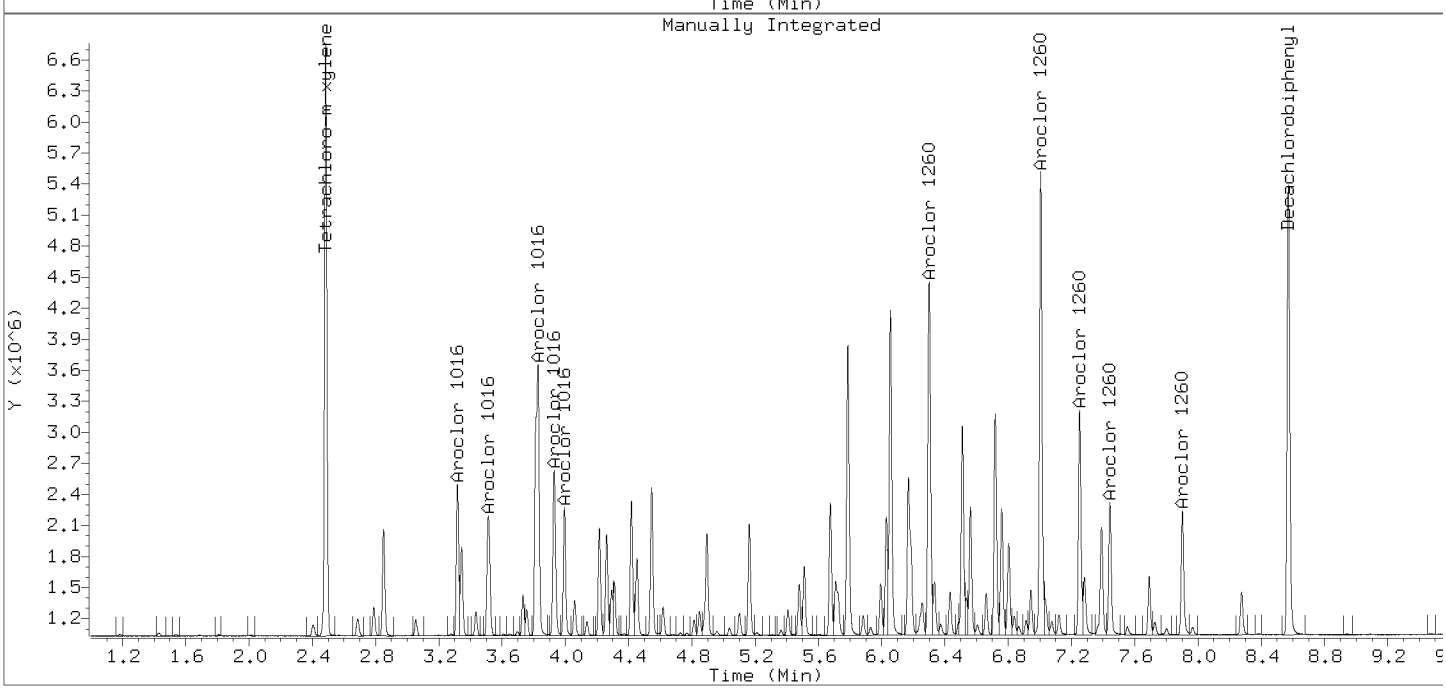
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018005.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 10-APR-2018 13:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	73265	56725	0.774	0.08		
1.429	36220	29509	0.815	0.04		
1.539	18797	13083	0.696	0.02		
1.685	17737	14520	0.819	0.02		
1.805	19386	13383	0.690	0.02		
2.012	46598	32127	0.689	0.05		
2.406	143729	108445	0.755	0.17		
2.486	6273030	5695465	0.908	7.97	$ 2 Tetrachloro-m-xylene	
2.688	207453	162431	0.783	0.24		
2.790	305093	276715	0.907	0.36		
2.851	1104614	994637	0.900	1.31		
3.030	18923	21529	1.138	0.02		
3.056	169619	153908	0.907	0.20		
3.277	24074	18043	0.749	0.02		
3.318	1547527	1425659	0.921	1.83	5 Aroclor 1016	BA
3.344	892204	831643	0.932	1.06		
3.435	247586	222171	0.897	0.29		
3.514	1553384	1113115	0.717	1.84	5 Aroclor 1016	BA
3.612	19295	16923	0.877	0.02		
3.649	26566	17947	0.676	0.03		
3.696	42078	39973	0.950	0.04		
3.732	385847	367731	0.953	0.45		
3.756	257836	238351	0.924	0.30		
3.827	4254835	2462242	0.579	5.05	5 Aroclor 1016	BA
3.929	1831656	1474341	0.805	2.17	5 Aroclor 1016	BA
3.994	1237931	1163041	0.940	1.47	5 Aroclor 1016	BA
4.058	375851	337567	0.898	0.44		
4.137	146383	131686	0.900	0.17		
4.215	1122473	1054126	0.939	1.33		
4.262	999079	931911	0.933	1.18		
4.293	420376	429175	1.021	0.49		
4.311	521466	480124	0.921	0.61		
4.371	30667	23488	0.766	0.03		
4.418	1382984	1265207	0.915	1.64		
4.452	974183	762947	0.783	1.15		
4.546	1738105	1564467	0.900	2.06		
4.617	397655	360454	0.906	0.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.678	25243	21257	0.842	0.02	
4.727	64551	53213	0.824	0.07	
4.768	55886	51295	0.918	0.06	
4.813	304956	286009	0.938	0.36	
4.848	467031	431524	0.924	0.55	
4.895	1615513	1194556	0.739	1.91	
4.957	108607	84956	0.782	0.12	
5.038	91165	76992	0.845	0.10	
5.100	344333	296833	0.862	0.40	
5.162	1302116	1214914	0.933	1.54	
5.213	66715	52532	0.787	0.07	
5.310	18863	15765	0.836	0.02	
5.363	90158	79129	0.878	0.10	
5.407	374686	323356	0.863	0.44	
5.477	538194	502615	0.934	0.63	
5.509	883332	789840	0.894	1.04	
5.605	20176	16478	0.817	0.02	
5.674	1351904	1266713	0.937	1.60	
5.709	982566	543557	0.553	1.16	
5.786	3288911	2810529	0.855	3.90	
5.883	229587	206250	0.898	0.27	
5.927	110378	86383	0.783	0.13	
5.994	541639	526200	0.971	0.64	
6.030	1256894	1212321	0.965	1.49	
6.056	3558455	3022227	0.849	4.22	
6.168	2347757	1438009	0.613	2.78	
6.256	547306	317158	0.579	0.65	
6.300	4226659	3336079	0.789	5.02	8 Aroclor 1260
6.332	627695	543238	0.865	0.74	
6.373	163395	125562	0.768	0.19	
6.432	469365	392992	0.837	0.55	
6.484	91675	122823	1.340	0.10	
6.510	2172796	1948283	0.897	2.58	
6.534	389580	410836	1.055	0.46	
6.561	1335619	1179396	0.883	1.58	
6.604	135075	106607	0.789	0.16	
6.660	423537	372996	0.881	0.50	
6.718	2308254	2064014	0.894	2.74	
6.757	1305605	1120104	0.858	1.55	
6.803	1023926	884872	0.864	1.21	
6.838	206769	171542	0.830	0.24	
6.867	100714	86649	0.860	0.11	
6.913	148827	141818	0.953	0.17	
6.943	445813	409500	0.919	0.52	
7.004	4779608	4307674	0.901	5.67	8 Aroclor 1260
7.034	330949	325819	0.984	0.39	
7.076	153287	122188	0.797	0.18	
7.121	243031	194701	0.801	0.28	
7.251	2261363	2016215	0.892	2.68	8 Aroclor 1260
7.281	665881	533715	0.802	0.79	
7.389	1208933	984290	0.814	1.43	
7.442	1448932	1237461	0.854	1.72	8 Aroclor 1260
7.552	100543	73200	0.728	0.11	
7.689	573413	495446	0.864	0.68	
7.727	101650	83293	0.819	0.12	
7.775	17090	17975	1.052	0.02	
7.800	89314	68549	0.768	0.10	

Data File: ...wintarget\data2\chem\40GCSJ.i\041018.b\041018005.D Page 3
Report Date: 12-Apr-2018 13:49

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.900	1252451	1053755	0.841	1.48	8 Aroclor 1260
7.963	94251	70673	0.750	0.11	
8.274	348430	292770	0.840	0.41	
8.375	26897	19152	0.712	0.03	
8.570	5413443	4468338	0.825	6.43	$ 12 Decachlorobiphenyl
9.460	12331	10188	0.826	0.01	
9.956	10653	9121	0.856	0.01	
	84159180	71027254		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018005.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 10-APR-2018 13:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 5 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	6273029	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1547526	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1553383	0.50000	0.50	0.00- 20.00	100.38	BA
3.826	3.826	0.000	4254835	0.50000	0.48	0.00- 20.00	274.94	BA
3.928	3.929	-0.001	1831655	0.50000	0.48	0.00- 20.00	118.36	BA
3.994	3.994	0.000	1237930	0.50000	0.48	0.00- 20.00	79.99	BA
Average of Peak Amounts =					0.48800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4226659	0.50000	0.48	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	4779608	0.50000	0.48	0.00- 20.00	113.08	BA
7.251	7.251	0.000	2261363	0.50000	0.47	0.00- 20.00	53.50	BA
7.442	7.443	-0.001	1448932	0.50000	0.50	0.00- 20.00	34.28	BA
7.899	7.901	-0.002	1252450	0.50000	0.47	0.00- 20.00	29.63	BA
Average of Peak Amounts =					0.48000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5413443	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\041018.b\041018005.D

Date : 10-APR-2018 13:35

Client ID: 1660-CCV

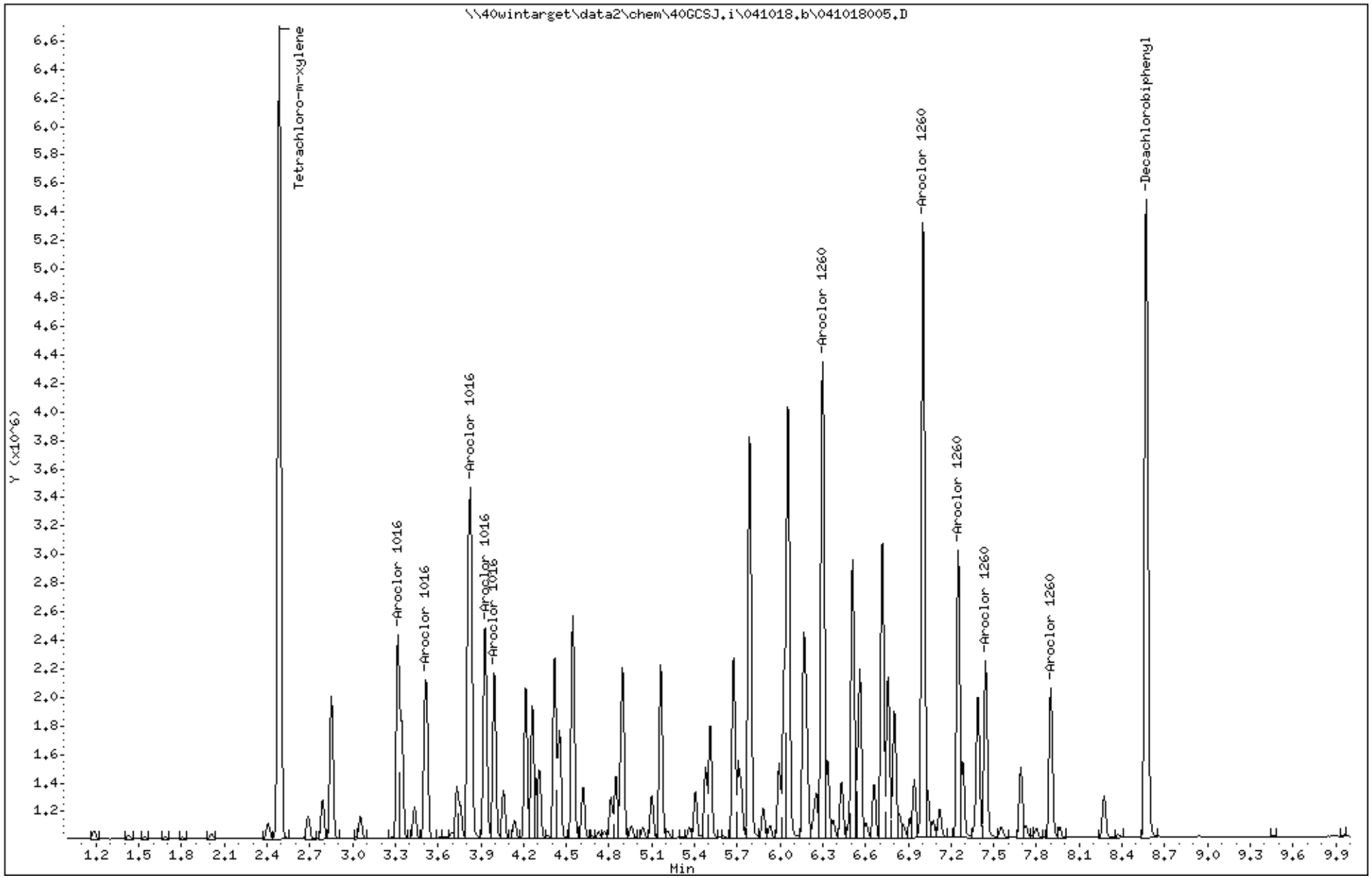
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

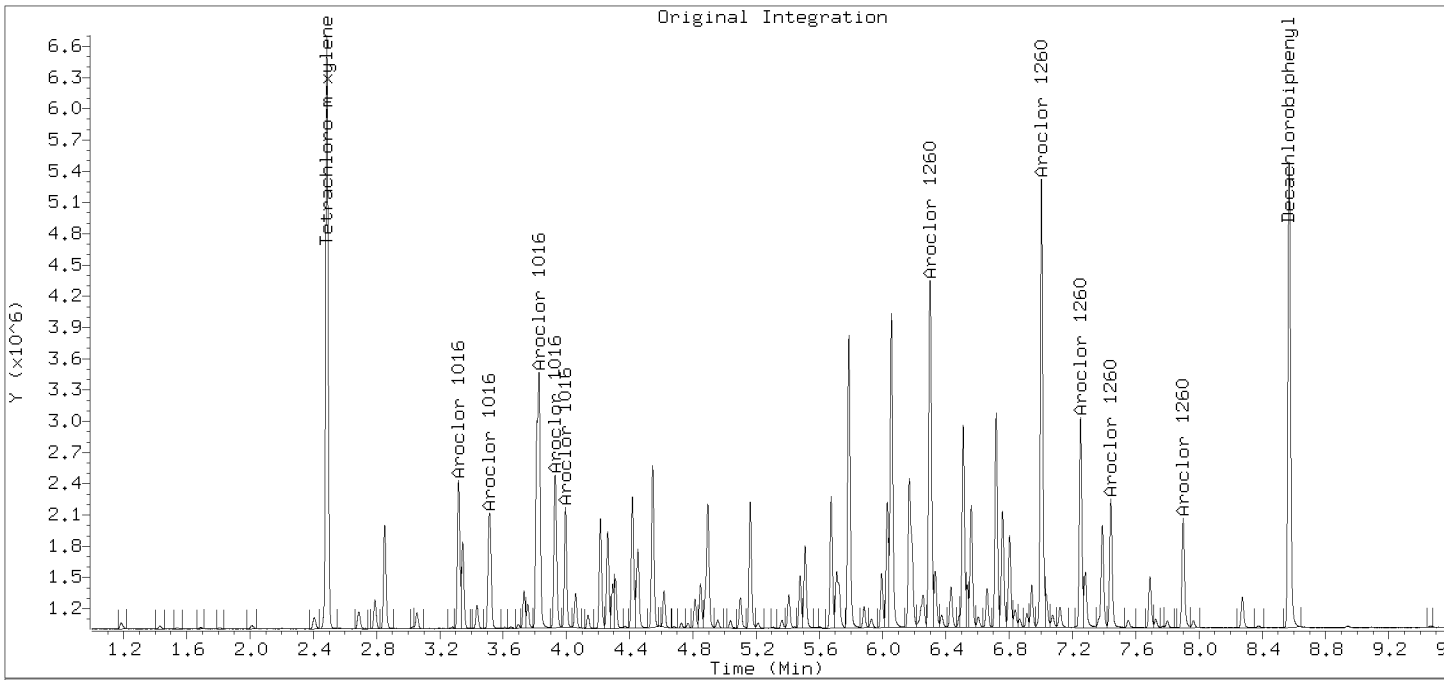
Operator: BLM

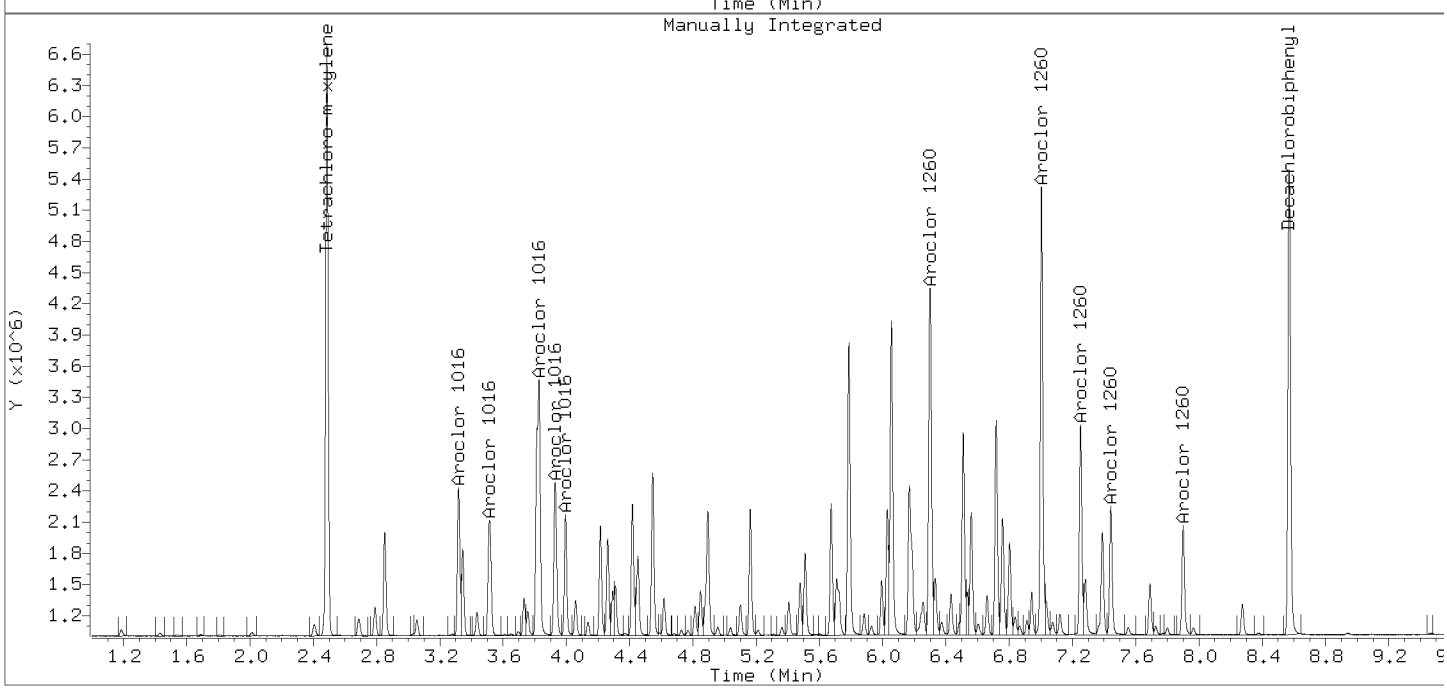
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018005.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 10-APR-2018 13:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Tetrachloro-m-xylene	6273029	6273029	
Decachlorobiphenyl	5413443	5413443	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-APR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.184	59194	40776	0.689	0.33			
1.432	42038	29812	0.709	0.23			
1.537	20269	15803	0.780	0.11			
1.687	18990	14956	0.788	0.10			
1.806	523193	411969	0.787	2.93		1 Aroclor 1221	BA
2.011	39831	25772	0.647	0.22			
2.196	164968	130993	0.794	0.92			
2.408	273729	193651	0.707	1.53		1 Aroclor 1221	BA
2.485	6174919	5590531	0.905	34.96	$	2 Tetrachloro-m-xylene	BA
2.689	697739	563510	0.808	3.91		1 Aroclor 1221	BA
2.790	551750	500979	0.908	3.09		1 Aroclor 1221	BA
2.852	1692236	1438759	0.850	9.50		1 Aroclor 1221	BA
3.030	17322	17460	1.008	0.09			
3.055	33815	27925	0.826	0.18			
3.280	114871	88176	0.768	0.64			
3.324	392976	218108	0.555	2.20			
3.436	34733	30833	0.888	0.19			
3.512	142838	104709	0.733	0.80			
3.608	16096	16584	1.030	0.09			
3.731	43199	42698	0.988	0.24			
3.757	45430	40489	0.891	0.25			
3.827	345026	198190	0.574	1.93			
3.929	168997	135200	0.800	0.94			
3.994	114484	100379	0.877	0.64			
4.056	26022	21839	0.839	0.14			
4.215	34537	33787	0.978	0.19			
4.260	27677	29529	1.067	0.15			
4.293	14442	10367	0.718	0.08			
4.416	42894	39578	0.923	0.24			
4.449	40504	28956	0.715	0.22			
4.546	53001	48200	0.909	0.29			
4.619	16685	13062	0.783	0.09			
4.813	23611	19559	0.828	0.13			
4.846	34335	31216	0.909	0.19			
4.880	57870	40390	0.698	0.32			
5.035	36985	30361	0.821	0.20			
5.096	15002	9562	0.637	0.08			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.209	9478	8397	0.886	0.05	
5.506	11779	10381	0.881	0.06	
5.699	13056	11034	0.845	0.07	
5.791	11560	8144	0.704	0.06	
6.448	16730	10619	0.635	0.09	
7.135	23751	13201	0.556	0.13	
7.727	25022	21040	0.841	0.14	
7.774	12264	10992	0.896	0.06	
7.799	19150	17446	0.911	0.10	
8.273	54002	41171	0.762	0.30	
8.382	17959	15437	0.860	0.10	
8.570	5390993	4413964	0.819	30.28	$ 12 Decachlorobiphenyl
8.937	11199	9852	0.880	0.06	
9.467	16749	12790	0.764	0.09	
9.959	13634	12000	0.880	0.07	
	17799536	14951136		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-APR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6174918	0.05000	0.050		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.805	1.804	0.001	523193	0.50000	0.50	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	273728	0.50000	0.50	0.00- 20.00	52.32	BA
2.688	2.688	0.000	697738	0.50000	0.50	0.00- 20.00	133.36	BA
2.789	2.789	0.000	551749	0.50000	0.50	0.00- 20.00	105.46	BA
2.851	2.851	0.000	1692236	0.50000	0.52	0.00- 20.00	323.44	BA
Average of Peak Amounts =					0.50400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5390992	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\041018.b\041018016.D

Date : 10-APR-2018 16:29

Client ID: 1221-CCV

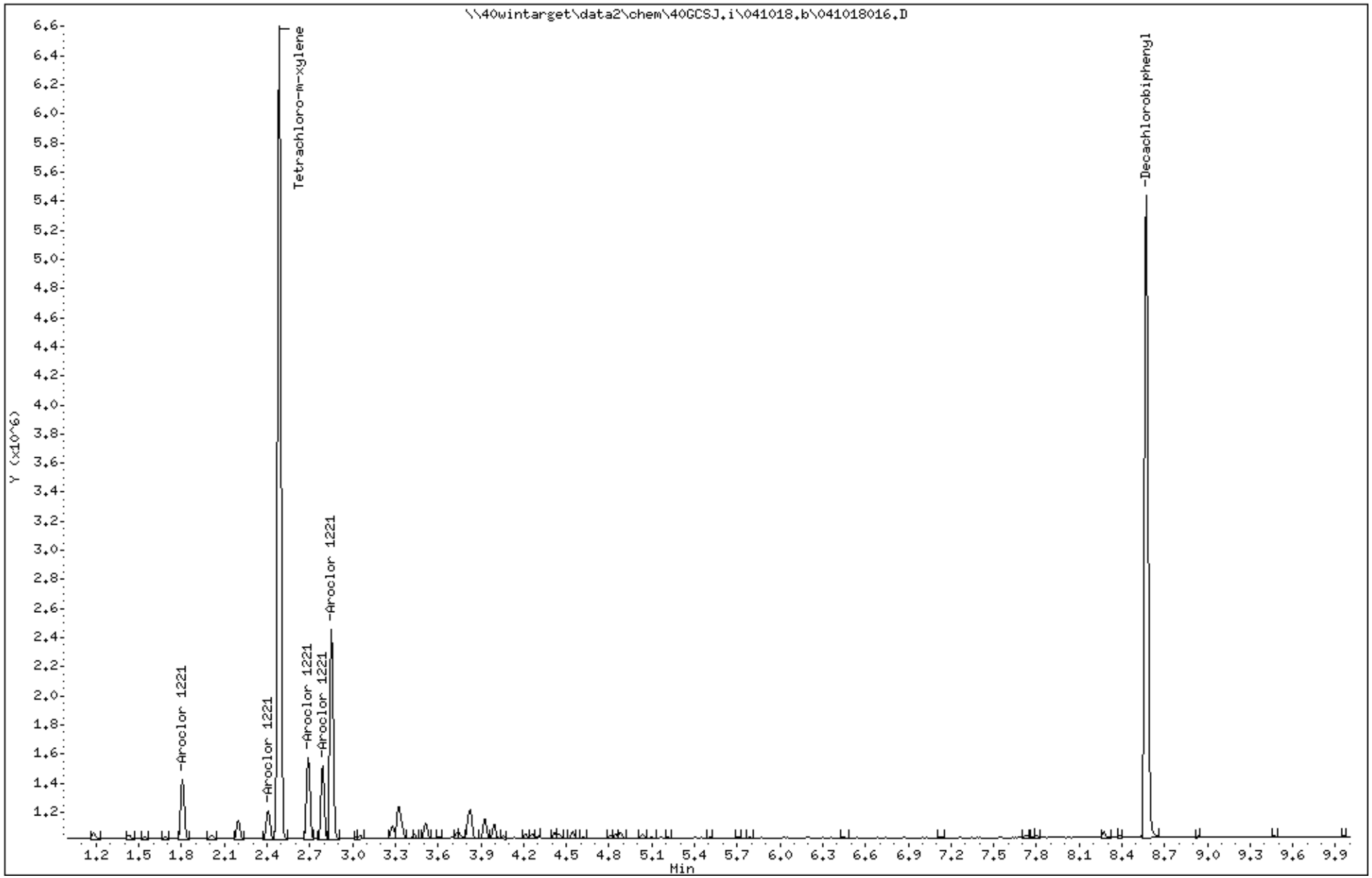
Instrument: 40GCSJ.i

Sample Info: 1221-CCV, 185538:1

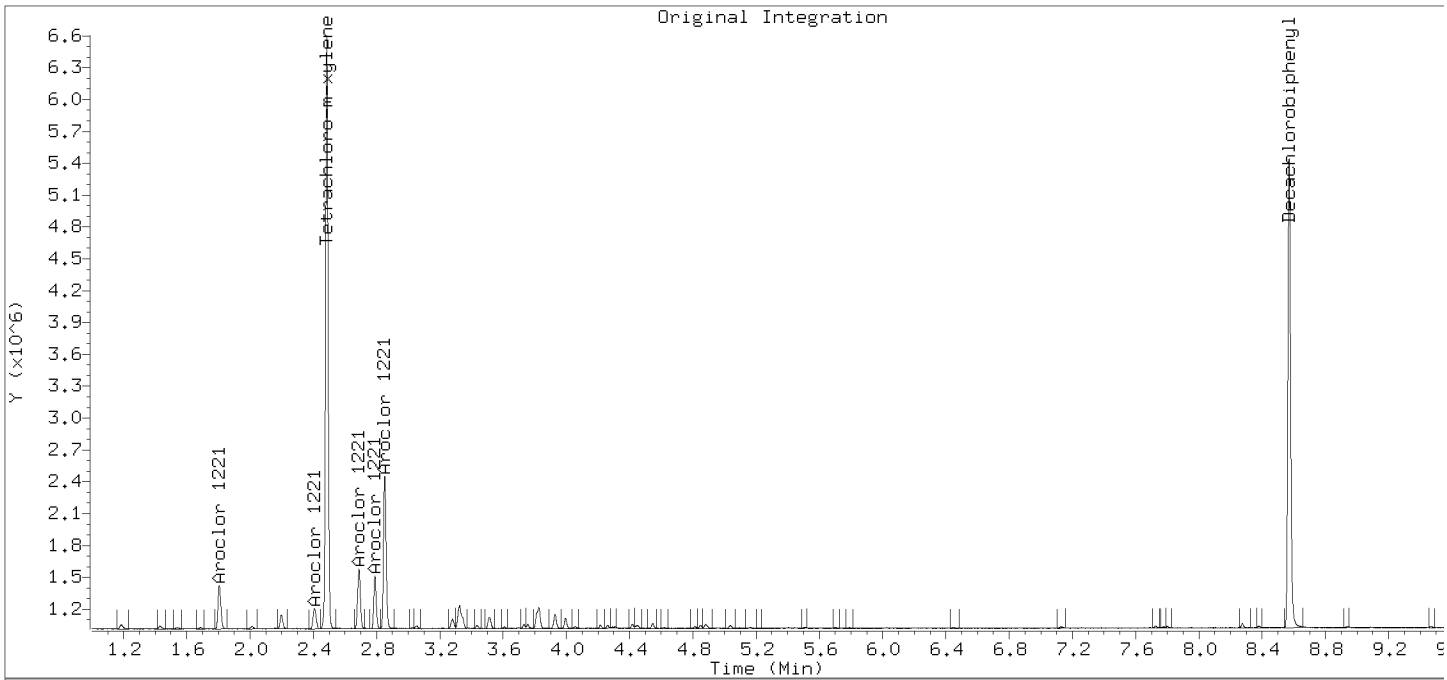
Operator: BLM

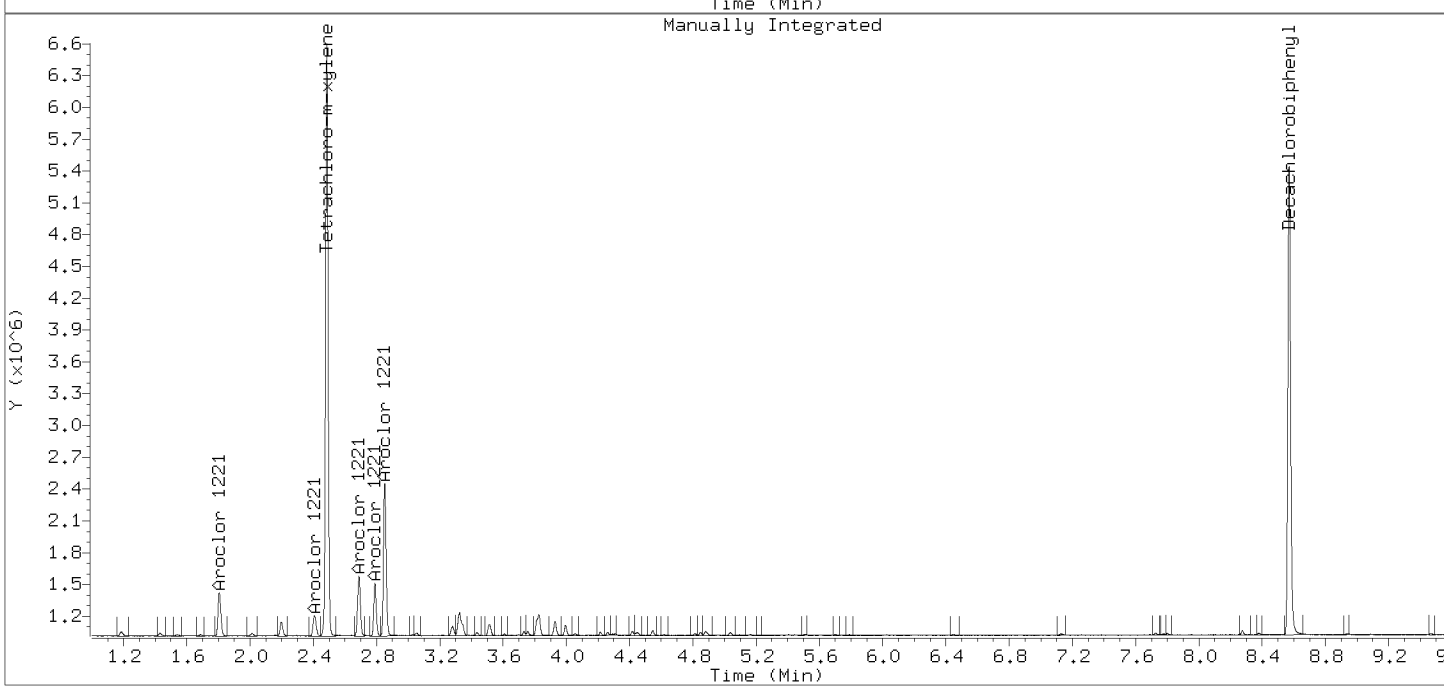
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 10-APR-2018 16:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Tetrachloro-m-xylene	6158821	6174918	BA
Decachlorobiphenyl	5390992	5390992	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	37854	26493	0.700	0.13		
1.428	36502	31369	0.859	0.13		
1.541	18337	13278	0.724	0.06		
1.682	14585	11900	0.816	0.05		
1.804	306633	259866	0.847	1.12		
2.007	24279	14296	0.589	0.08		
2.197	83832	74872	0.893	0.30		
2.407	198784	146730	0.738	0.72		
2.484	5940254	5589667	0.941	22.07	$ 2 Tetrachloro-m-xylene	
2.688	446112	361477	0.810	1.63		
2.788	407371	375077	0.921	1.48		
2.850	1333721	1167621	0.875	4.87	4 Aroclor 1232	BA
3.053	87858	76901	0.875	0.32		
3.280	75026	54386	0.725	0.27		
3.317	761993	674789	0.886	2.78		
3.342	422534	382353	0.905	1.54		
3.434	121439	106547	0.877	0.44		
3.514	691523	493485	0.714	2.52	4 Aroclor 1232	BA
3.608	23499	18858	0.803	0.08		
3.646	15741	10842	0.689	0.05		
3.696	23707	22739	0.959	0.08		
3.731	176775	174987	0.990	0.64		
3.756	137994	120152	0.871	0.50		
3.826	1984568	1140998	0.575	7.25	4 Aroclor 1232	BA
3.928	852402	700721	0.822	3.11	4 Aroclor 1232	BA
3.993	556499	513643	0.923	2.03	4 Aroclor 1232	BA
4.058	153800	133829	0.870	0.56		
4.135	61965	53029	0.856	0.22		
4.214	408726	373634	0.914	1.49		
4.261	394493	355104	0.900	1.44		
4.293	156288	170271	1.089	0.57		
4.309	226655	191517	0.845	0.82		
4.369	17679	13729	0.777	0.06		
4.416	554417	516318	0.931	2.02		
4.450	448510	316663	0.706	1.63		
4.545	714586	640980	0.897	2.61		
4.616	171993	155745	0.906	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.676	13876	11492	0.828	0.05	
4.725	36960	29918	0.809	0.13	
4.769	39886	35144	0.881	0.14	
4.812	317789	290571	0.914	1.16	
4.848	554706	512255	0.923	2.02	
4.879	724787	535072	0.738	2.64	
4.957	82875	59262	0.715	0.30	
5.037	601961	537527	0.893	2.19	
5.098	118660	86202	0.726	0.43	
5.161	132038	119862	0.908	0.48	
5.211	93368	80719	0.865	0.34	
5.309	23642	19398	0.820	0.08	
5.362	80789	68055	0.842	0.29	
5.406	143938	115387	0.802	0.52	
5.446	89862	73288	0.816	0.32	
5.510	236132	164868	0.698	0.86	
5.605	72392	58497	0.808	0.26	
5.672	13799	12724	0.922	0.05	
5.715	18964	13820	0.729	0.06	
5.739	18225	16297	0.894	0.06	
5.791	154195	111198	0.721	0.56	
5.887	16724	13719	0.820	0.06	
6.023	117836	96540	0.819	0.43	
6.054	38272	31575	0.825	0.13	
6.167	16981	12340	0.727	0.06	
6.297	39774	32275	0.811	0.14	
6.511	9991	10389	1.040	0.03	
6.718	16896	13291	0.787	0.06	
6.755	12127	8674	0.715	0.04	
7.004	33575	22775	0.678	0.12	
7.253	15548	10646	0.685	0.05	
7.727	26914	23680	0.880	0.09	
7.774	9803	8128	0.829	0.03	
7.801	21461	17600	0.820	0.07	
7.899	12382	7784	0.629	0.04	
8.275	54606	40784	0.747	0.19	
8.372	9723	8774	0.902	0.03	
8.571	5254551	4329601	0.824	19.20	$ 12 Decachlorobiphenyl
	27364942	23124997		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5940253	0.05000	0.048			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1333721	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	691523	0.50000	0.52	0.00- 20.00	51.85	BA
3.825	3.827	-0.002	1984568	0.50000	0.53	0.00- 20.00	148.80	BA
3.928	3.929	-0.001	852402	0.50000	0.53	0.00- 20.00	63.91	BA
3.993	3.995	-0.002	556499	0.50000	0.51	0.00- 20.00	41.73	BA
Average of Peak Amounts =					0.52400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5254551	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D

Date : 10-APR-2018 19:39

Client ID: 1232-CCV

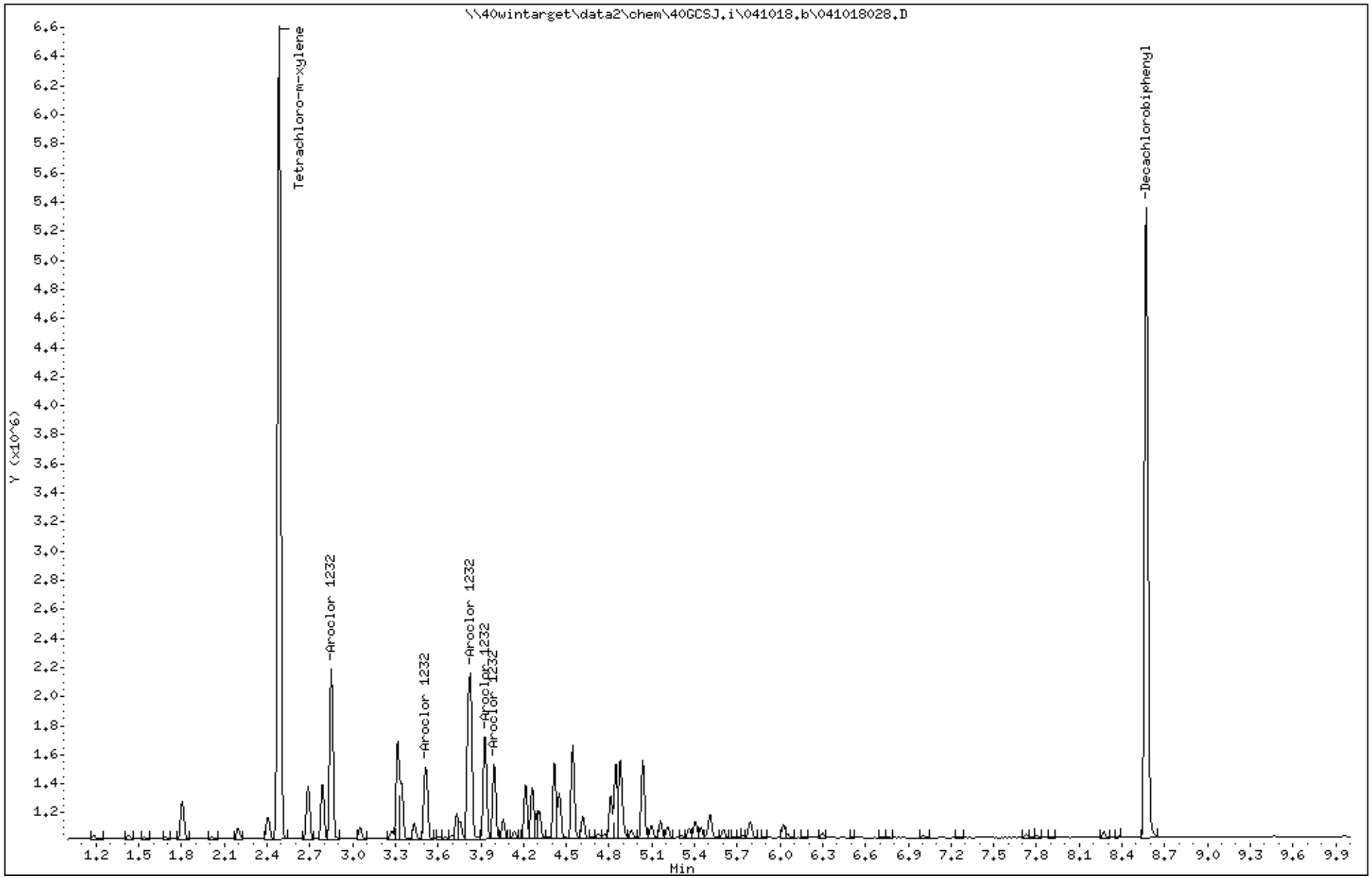
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

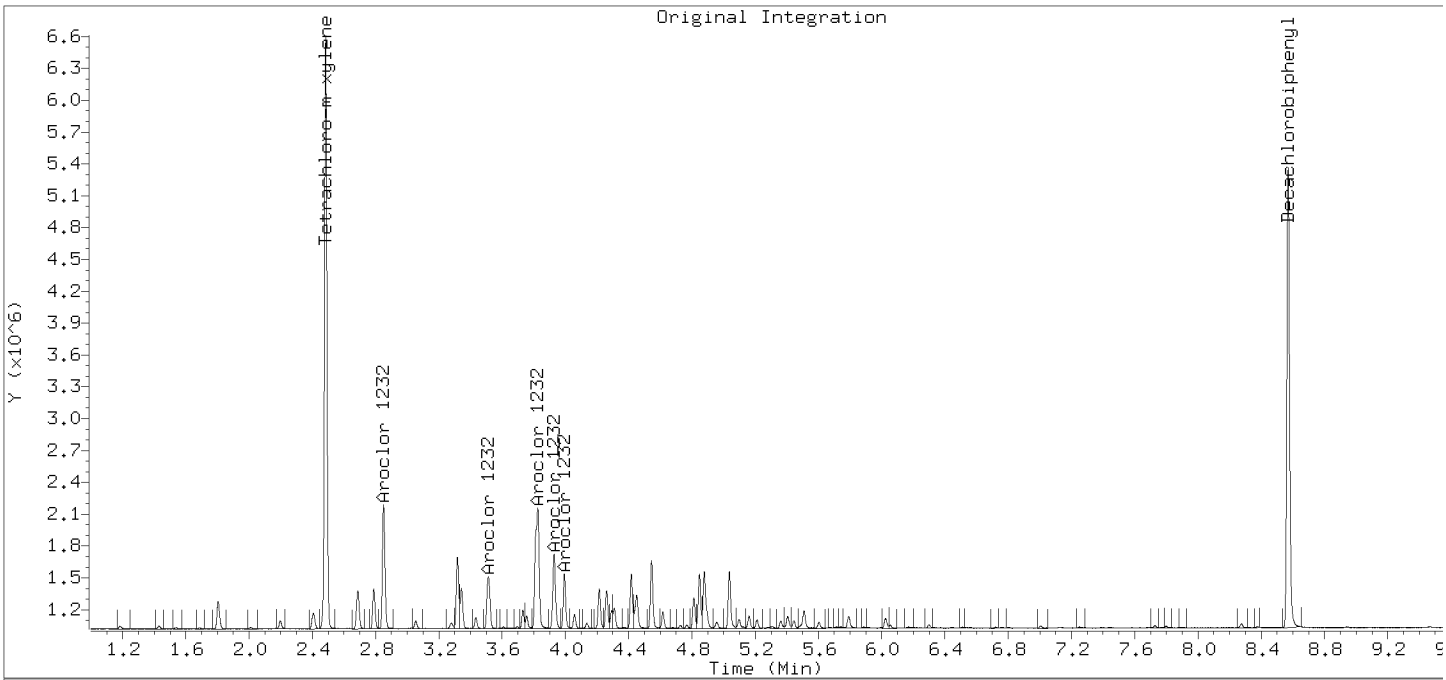
Operator: BLM

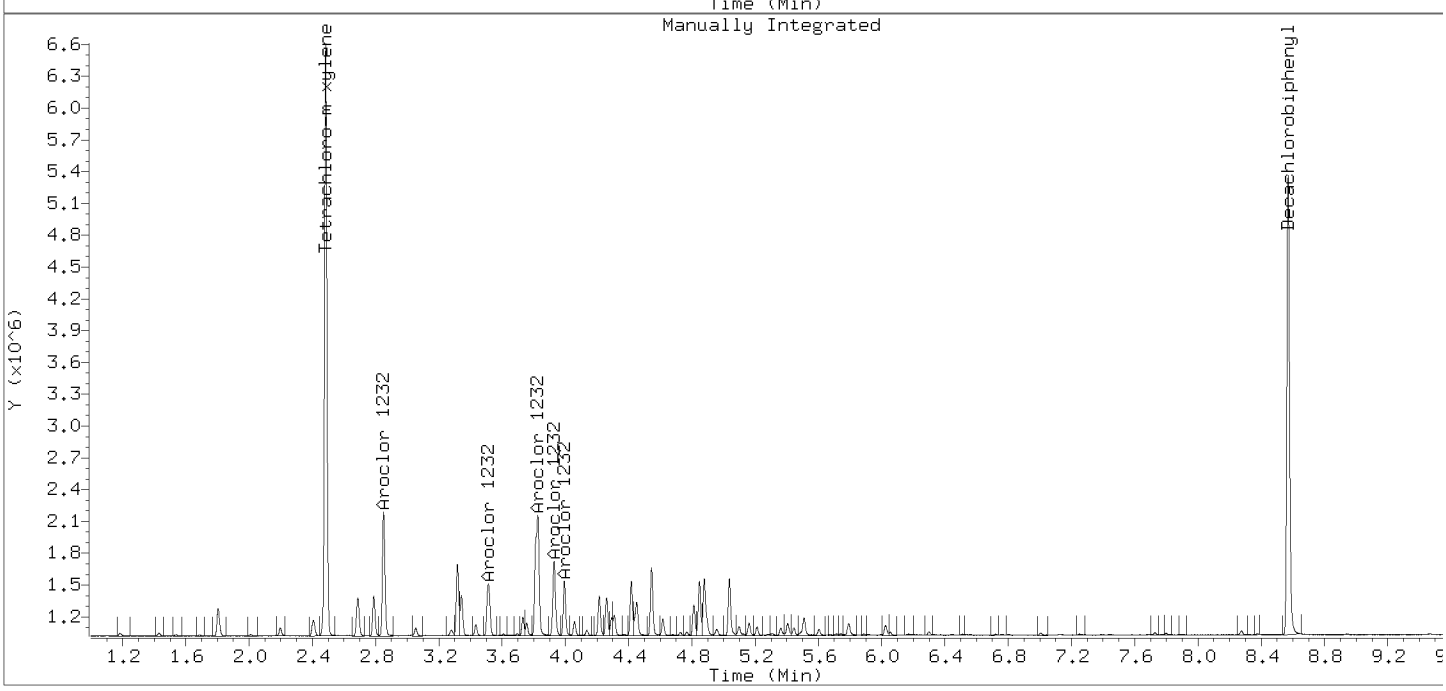
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 10-APR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Tetrachloro-m-xylene	5940253	5940253	
Decachlorobiphenyl	5254551	5254551	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	51261	37733	0.736	0.12		
1.429	33865	30721	0.907	0.08		
1.534	20060	14201	0.708	0.04		
1.686	17924	16199	0.904	0.04		
1.805	18404	15749	0.856	0.04		
2.008	23091	17788	0.770	0.05		
2.405	127348	94496	0.742	0.31		
2.484	6221108	5872455	0.944	15.82	$ 2 Tetrachloro-m-xylene	
2.686	184630	149952	0.812	0.45		
2.788	280448	259495	0.925	0.69		
2.850	980713	901281	0.919	2.42		
3.054	154293	131491	0.852	0.38		
3.278	22434	18974	0.846	0.05		
3.317	1328878	1218671	0.917	3.28	3 Aroclor 1242	BA
3.343	762840	705721	0.925	1.88		
3.434	208844	193024	0.924	0.51		
3.513	1313172	940223	0.716	3.25	3 Aroclor 1242	BA
3.611	19756	18392	0.931	0.04		
3.645	21340	14929	0.700	0.05		
3.695	36473	35467	0.972	0.09		
3.731	332669	327171	0.983	0.82		
3.755	219390	199217	0.908	0.54		
3.826	3775082	2226689	0.590	9.34	3 Aroclor 1242	BA
3.929	1612592	1333199	0.827	3.99	3 Aroclor 1242	BA
3.994	1081179	1007723	0.932	2.67	3 Aroclor 1242	BA
4.058	318244	283881	0.892	0.78		
4.136	124255	107850	0.868	0.30		
4.214	885257	844169	0.954	2.19		
4.260	858526	808492	0.942	2.12		
4.292	342230	365676	1.069	0.84		
4.309	458921	406505	0.886	1.13		
4.368	25952	19632	0.756	0.06		
4.416	1175134	1112270	0.947	2.90		
4.451	921222	670567	0.728	2.28		
4.545	1522511	1385991	0.910	3.76		
4.617	348793	318164	0.912	0.86		
4.679	24943	20599	0.826	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.725	73608	62265	0.846	0.18	
4.767	81594	77316	0.948	0.20	
4.812	710381	665416	0.937	1.75	
4.847	1215339	1155904	0.951	3.00	
4.878	1601381	1140546	0.712	3.96	
4.957	175608	137696	0.784	0.43	
5.037	1295359	1154461	0.891	3.20	
5.099	286013	217951	0.762	0.70	
5.161	324785	294143	0.906	0.80	
5.211	246332	215355	0.874	0.60	
5.286	20967	18593	0.887	0.05	
5.309	54810	45682	0.833	0.13	
5.362	209107	177511	0.849	0.51	
5.406	350674	289517	0.826	0.86	
5.446	227608	192669	0.846	0.56	
5.510	568043	437721	0.771	1.40	
5.604	168563	146777	0.871	0.41	
5.673	13868	11820	0.852	0.03	
5.715	38522	27447	0.713	0.09	
5.741	45186	39555	0.875	0.11	
5.792	409894	316635	0.772	1.01	
5.889	62303	36660	0.588	0.15	
6.023	374890	267139	0.713	0.92	
6.169	15439	15847	1.026	0.03	
6.297	108333	87694	0.809	0.26	
6.335	26265	20230	0.770	0.06	
6.372	18351	13567	0.739	0.04	
6.446	10701	10579	0.989	0.02	
6.537	40781	31760	0.779	0.10	
6.799	23283	19475	0.836	0.05	
6.843	16016	10126	0.632	0.03	
7.130	19841	11751	0.592	0.04	
7.727	31593	24991	0.791	0.07	
7.778	12216	11804	0.966	0.03	
7.797	23904	17953	0.751	0.05	
8.275	54580	42152	0.772	0.13	
8.379	19062	14196	0.745	0.04	
8.570	5539564	4616000	0.833	13.71	$ 12 Decachlorobiphenyl
8.941	15579	11922	0.765	0.03	
9.962	15333	10856	0.708	0.03	
	40399459	34224439		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6221107	0.05000	0.050			
3 Aroclor 1242						CAS #: 53469-21-9		
3.316	3.318	-0.002	1328877	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1313172	0.50000	0.52	0.00- 20.00	98.82	BA
3.825	3.827	-0.002	3775081	0.50000	0.53	0.00- 20.00	284.08	BA
3.928	3.929	-0.001	1612591	0.50000	0.53	0.00- 20.00	121.35	BA
3.993	3.995	-0.002	1081178	0.50000	0.53	0.00- 20.00	81.36	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5539564	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D

Date : 10-APR-2018 22:49

Client ID: 1242-CCV

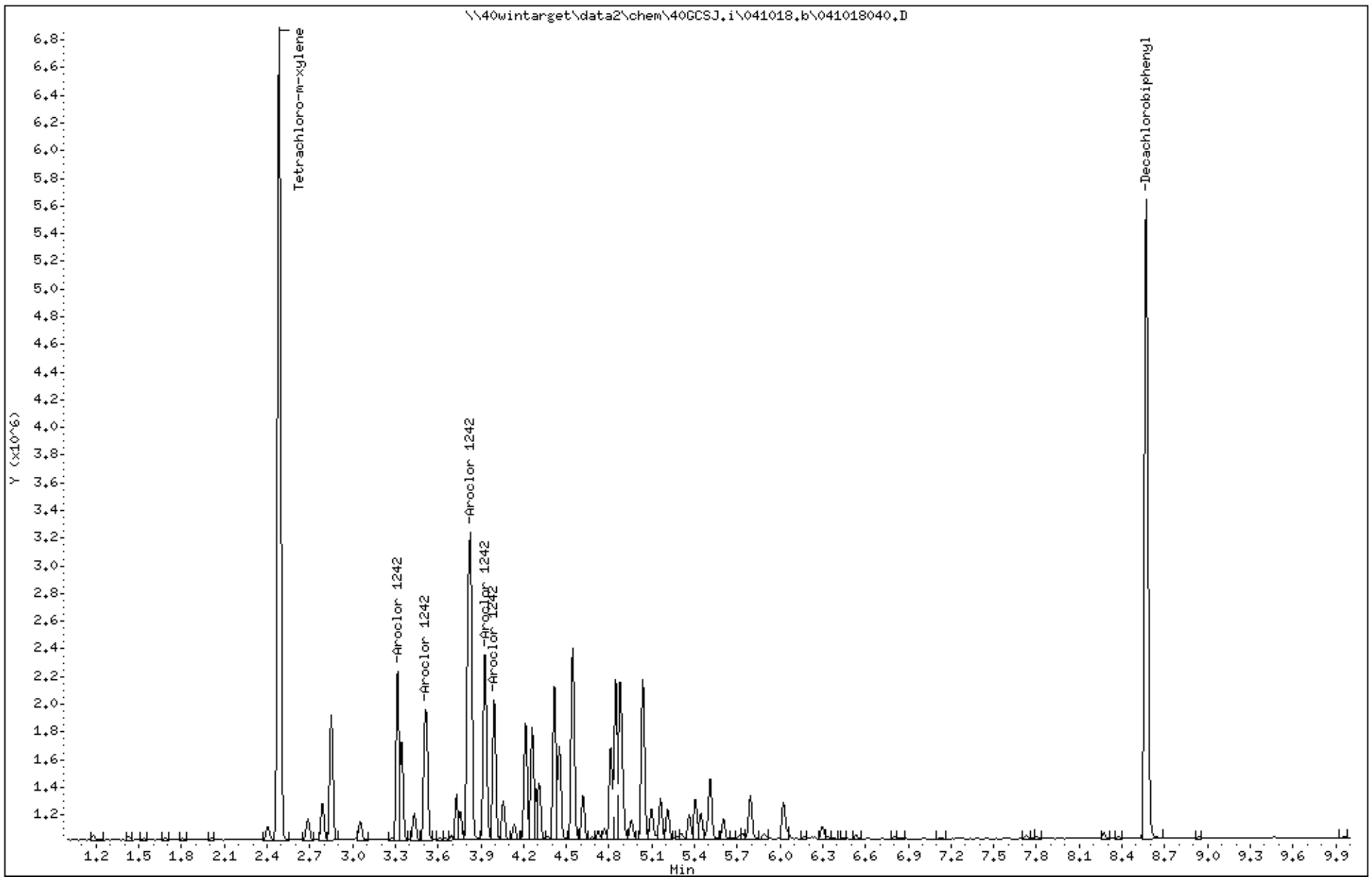
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

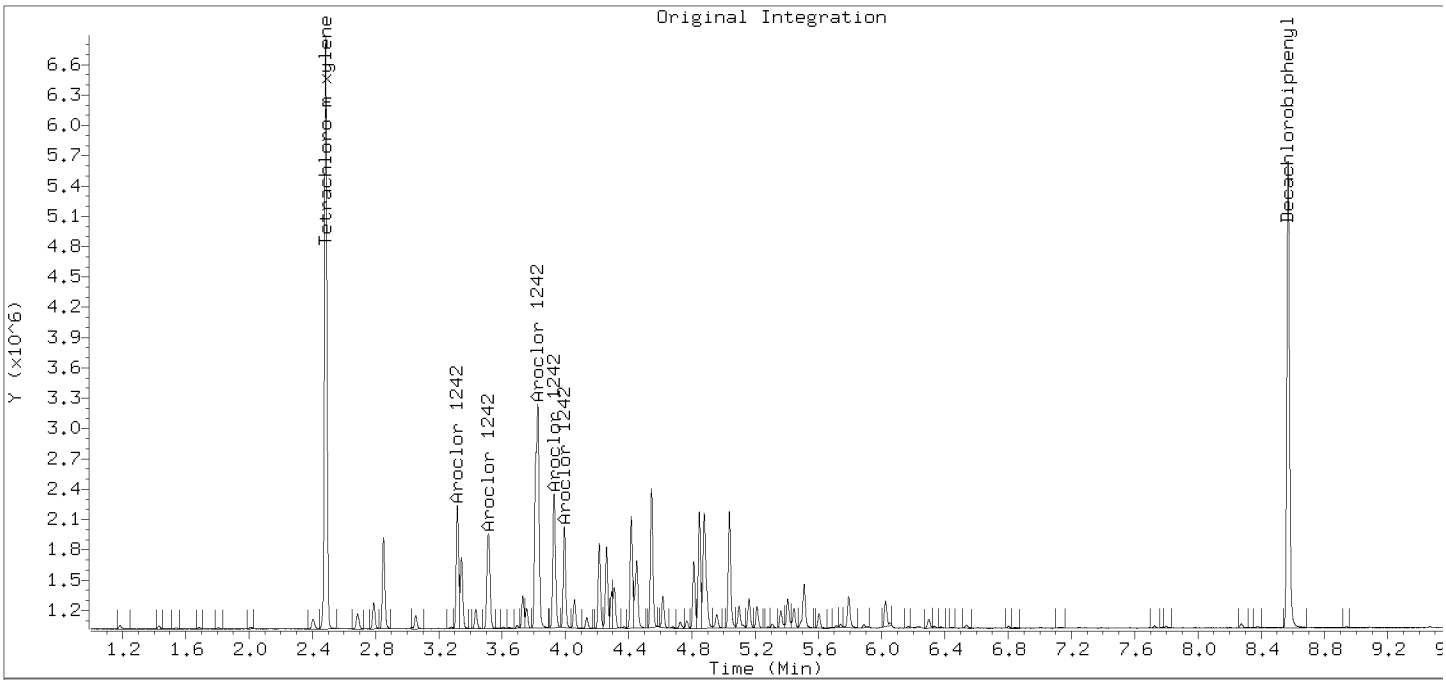
Operator: BLM

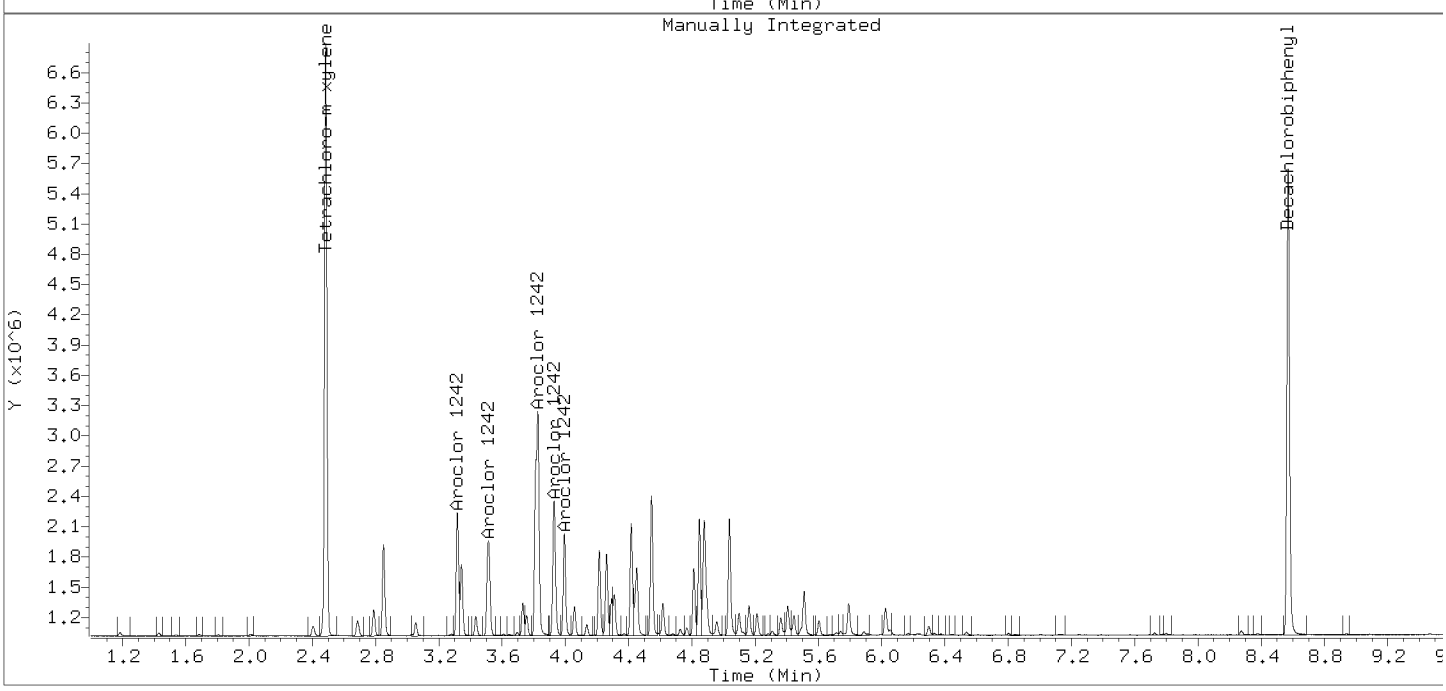
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018040.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 10-APR-2018 22:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Tetrachloro-m-xylene	6221107	6221107	
Decachlorobiphenyl	5539564	5539564	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 11-APR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	26524	20962	0.790	0.02		
1.431	40279	31068	0.771	0.04		
1.540	18687	13752	0.736	0.02		
1.686	31039	22697	0.731	0.03		
1.805	18549	15692	0.846	0.02		
2.014	16250	12687	0.781	0.01		
2.196	12704	8220	0.647	0.01		
2.408	153388	112370	0.733	0.16		
2.486	6576761	5819497	0.885	7.62	$ 2 Tetrachloro-m-xylene	
2.688	218530	174076	0.797	0.23		
2.790	332346	294448	0.886	0.35		
2.851	1218010	1088293	0.894	1.31		
3.055	184589	160131	0.868	0.19		
3.275	28615	21370	0.747	0.03		
3.318	1661242	1503796	0.905	1.79	5 Aroclor 1016	BA
3.344	960469	865911	0.902	1.03		
3.435	267939	241404	0.901	0.28		
3.514	1662361	1192095	0.717	1.79	5 Aroclor 1016	BA
3.611	24055	20212	0.840	0.02		
3.645	25827	17507	0.678	0.02		
3.697	45657	44679	0.979	0.04		
3.732	425301	423571	0.996	0.45		
3.757	281209	254582	0.905	0.30		
3.826	4762648	2782897	0.584	5.14	5 Aroclor 1016	BA
3.929	2029582	1651865	0.814	2.19	5 Aroclor 1016	BA
3.995	1363908	1270588	0.932	1.47	5 Aroclor 1016	BA
4.059	392098	351555	0.897	0.42		
4.137	153414	143624	0.936	0.16		
4.215	1200345	1095789	0.913	1.29		
4.261	1078283	1010685	0.937	1.16		
4.293	445750	453968	1.018	0.48		
4.310	570921	534791	0.937	0.61		
4.372	34739	26164	0.753	0.03		
4.418	1485039	1348038	0.908	1.60		
4.453	1101105	843441	0.766	1.18		
4.546	1886400	1716754	0.910	2.03		
4.591	27304	25222	0.924	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	424808	392006	0.923	0.45	
4.678	26918	20693	0.769	0.02	
4.729	68199	58011	0.851	0.07	
4.769	58856	54780	0.931	0.06	
4.814	343419	325423	0.948	0.37	
4.848	532779	506398	0.950	0.57	
4.895	1724929	1257837	0.729	1.86	
4.955	113045	87644	0.775	0.12	
5.037	100550	89815	0.893	0.10	
5.100	361163	307233	0.851	0.39	
5.163	1423544	1312298	0.922	1.53	
5.212	67541	54485	0.807	0.07	
5.307	14853	15473	1.042	0.01	
5.362	97731	87181	0.892	0.10	
5.407	409365	369921	0.904	0.44	
5.478	566699	526807	0.930	0.61	
5.510	987790	881995	0.893	1.06	
5.605	20395	16965	0.832	0.02	
5.675	1448172	1354359	0.935	1.56	
5.710	1049661	575135	0.548	1.13	
5.785	3573505	3091246	0.865	3.86	
5.882	241624	215745	0.893	0.26	
5.930	115727	94253	0.814	0.12	
5.994	602907	576942	0.957	0.65	
6.029	1372559	1351059	0.984	1.48	
6.056	3948296	3437019	0.871	4.26	
6.169	2590241	1609415	0.621	2.79	
6.256	594257	344869	0.580	0.64	
6.300	4789374	3835362	0.801	5.17	8 Aroclor 1260
6.334	698179	621004	0.889	0.75	
6.373	175778	137084	0.780	0.18	
6.431	492672	434394	0.882	0.53	
6.486	101218	132681	1.311	0.10	
6.510	2363091	2149821	0.910	2.55	
6.535	446821	481648	1.078	0.48	
6.560	1475465	1304351	0.884	1.59	
6.605	152836	128536	0.841	0.16	
6.660	459725	419717	0.913	0.49	
6.718	2527503	2306145	0.912	2.73	
6.760	1423158	1250089	0.878	1.53	
6.803	1169060	1024295	0.876	1.26	
6.838	218415	188620	0.864	0.23	
6.866	109210	92561	0.848	0.11	
6.913	157704	150079	0.952	0.17	
6.943	504270	455389	0.903	0.54	
7.005	5445908	4883049	0.897	5.88	8 Aroclor 1260
7.034	361975	351143	0.970	0.39	
7.075	167758	135921	0.810	0.18	
7.122	251007	207553	0.827	0.27	
7.252	2613847	2366081	0.905	2.82	8 Aroclor 1260
7.282	751367	600808	0.800	0.81	
7.389	1330285	1104095	0.830	1.43	
7.443	1587750	1369159	0.862	1.71	8 Aroclor 1260
7.552	117411	90183	0.768	0.12	
7.691	649802	560316	0.862	0.70	
7.729	109373	91806	0.839	0.11	
7.776	13308	16217	1.219	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.801	103145	74597	0.723	0.11	
7.901	1438385	1183223	0.823	1.55	8 Aroclor 1260
7.964	111125	80485	0.724	0.12	
8.275	400238	335068	0.837	0.43	
8.381	38179	24942	0.653	0.04	
8.572	6002208	5034228	0.839	6.48	$ 12 Decachlorobiphenyl
8.944	37272	23825	0.639	0.04	
9.090	10657	9721	0.912	0.01	
9.432	13728	13864	1.010	0.01	
9.467	47015	25808	0.549	0.05	
9.960	24723	19579	0.792	0.02	
	92532346	78342855		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 11-APR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.486	2.484	0.002	6576761	0.05000	0.053			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	1661241	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1662360	0.50000	0.54	0.00- 20.00	100.07	BA
3.826	3.826	0.000	4762648	0.50000	0.54	0.00- 20.00	286.69	BA
3.929	3.929	0.000	2029581	0.50000	0.54	0.00- 20.00	122.17	BA
3.995	3.994	0.001	1363908	0.50000	0.52	0.00- 20.00	82.10	BA
Average of Peak Amounts =					0.53600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4789374	0.50000	0.54	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5445907	0.50000	0.54	0.00- 20.00	113.71	CO
7.251	7.251	0.000	2613847	0.50000	0.55	0.00- 20.00	54.58	CO
7.442	7.443	-0.001	1587749	0.50000	0.54	0.00- 20.00	33.15	CO
7.900	7.901	-0.001	1438384	0.50000	0.54	0.00- 20.00	30.03	CO
Average of Peak Amounts =					0.54200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	6002207	0.05000	0.055			

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\041118.b\041118004.D

Date : 11-APR-2018 14:32

Client ID: 1660-CCV

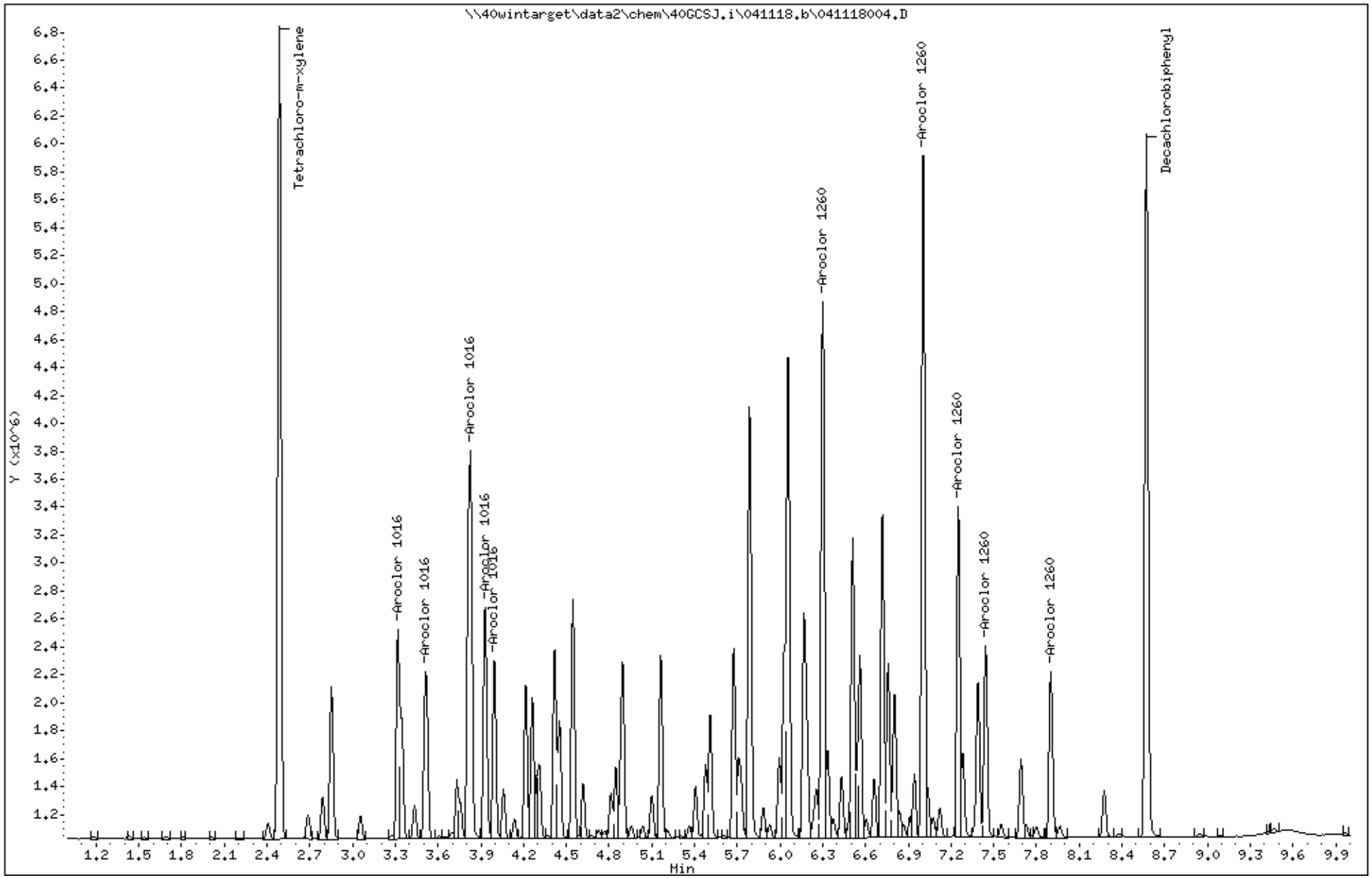
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

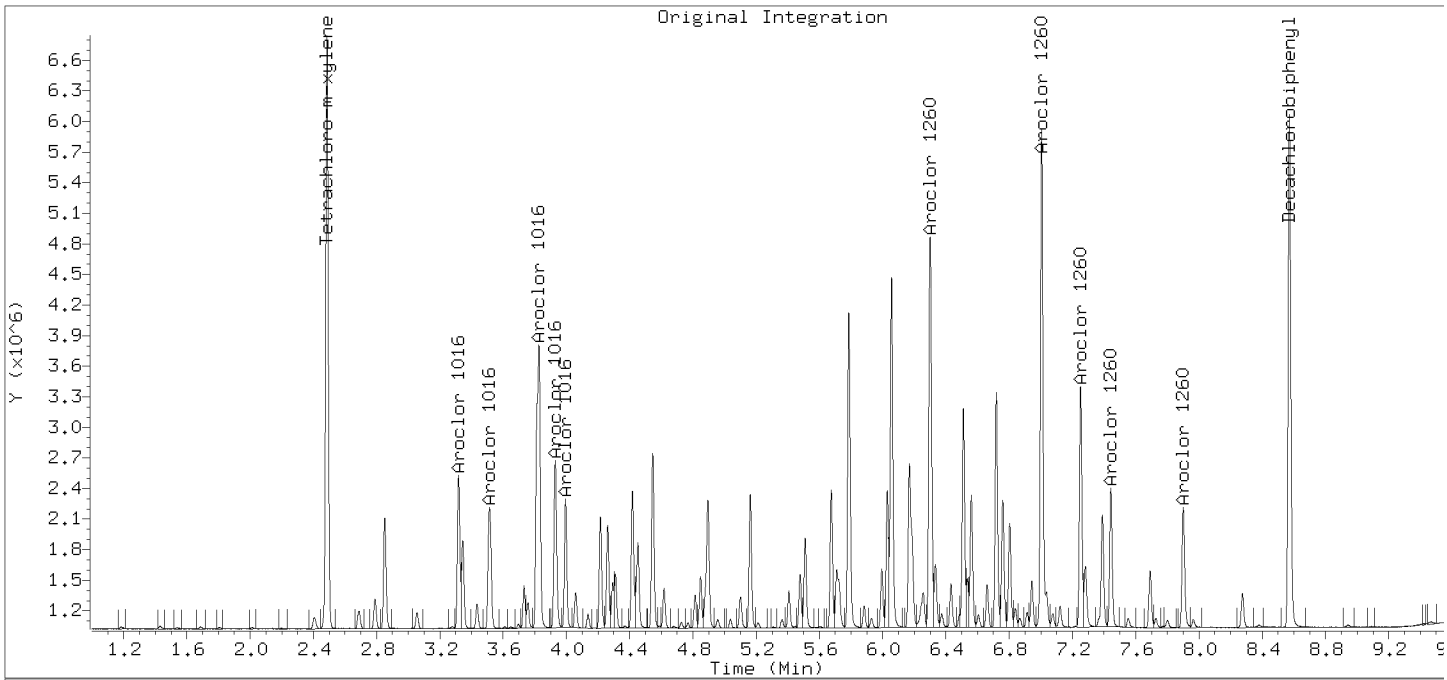
Operator: BLM

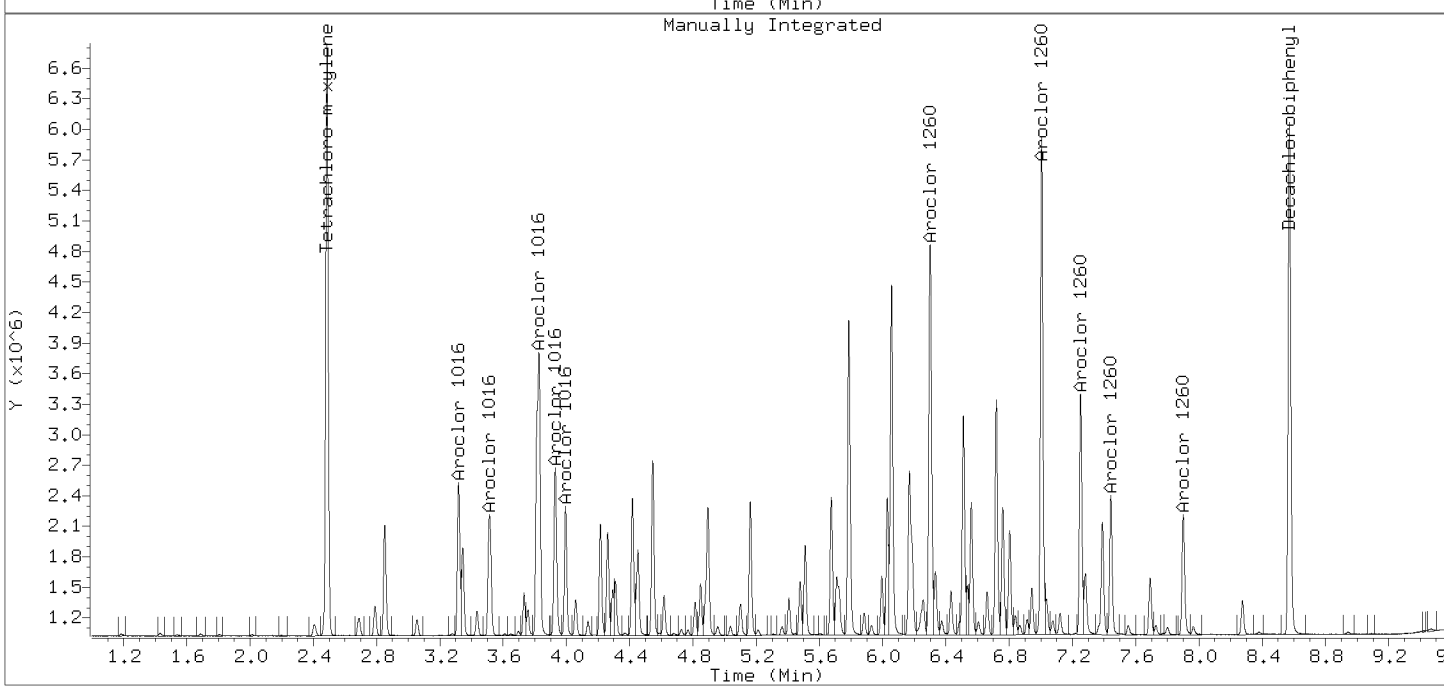
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 11-APR-2018 14:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1016	1651528	1661241	BA
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Aroclor 1260	4771258	4789374	CO
Tetrachloro-m-xylene	6576761	6576761	
Decachlorobiphenyl	6002207	6002207	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 11-APR-2018 17:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	26783	19474	0.727	0.14		
1.428	35928	31888	0.888	0.19		
1.541	29116	15364	0.528	0.16		
1.685	23996	19947	0.831	0.13		
1.805	522623	441378	0.845	2.88	1 Aroclor 1221	BA
2.011	21345	13632	0.639	0.11		
2.162	12106	9820	0.811	0.06		
2.197	164599	139838	0.850	0.90		
2.407	271402	194845	0.718	1.49	1 Aroclor 1221	BA
2.484	6155063	5709632	0.928	34.24	$ 2 Tetrachloro-m-xylene	BA
2.688	726952	585111	0.805	4.01	1 Aroclor 1221	BA
2.789	558274	519926	0.931	3.08	1 Aroclor 1221	BA
2.851	1718600	1482514	0.863	9.48	1 Aroclor 1221	BA
3.030	13200	11857	0.898	0.07		
3.054	35047	29120	0.831	0.19		
3.280	124541	93232	0.749	0.68		
3.324	405341	231834	0.572	2.23		
3.435	35232	31360	0.890	0.19		
3.514	145429	106464	0.732	0.80		
3.606	16114	15709	0.975	0.08		
3.695	11301	10851	0.960	0.06		
3.731	45895	46277	1.008	0.25		
3.756	44733	38798	0.867	0.24		
3.827	352183	208190	0.591	1.94		
3.929	175428	137565	0.784	0.96		
3.995	107924	96724	0.896	0.59		
4.057	22976	18235	0.794	0.12		
4.215	33852	33823	0.999	0.18		
4.259	34525	33976	0.984	0.19		
4.291	16102	16958	1.053	0.08		
4.310	20522	18956	0.924	0.11		
4.417	43044	40617	0.944	0.23		
4.442	55020	30274	0.550	0.30		
4.545	55754	50356	0.903	0.30		
4.616	14492	16587	1.145	0.07		
4.810	25074	19972	0.797	0.13		
4.848	38531	35460	0.920	0.21		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.878	56099	37752	0.673	0.30	
5.038	41384	32776	0.792	0.22	
5.091	10405	7383	0.710	0.05	
5.218	9747	8044	0.825	0.05	
5.385	15401	11778	0.765	0.08	
5.509	16079	12387	0.770	0.08	
7.119	24148	13073	0.541	0.13	
7.727	32400	26930	0.831	0.17	
7.774	10672	9679	0.907	0.05	
7.800	29744	23917	0.804	0.16	
8.274	55425	44129	0.796	0.30	
8.382	17298	11722	0.678	0.09	
8.571	5596306	4563637	0.815	30.88	$ 12 Decachlorobiphenyl
8.941	22134	12886	0.582	0.12	
9.467	20327	15458	0.760	0.11	
9.959	25986	15994	0.615	0.14	
	18122599	15404109		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 11-APR-2018 17:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO		REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.484	2.484	0.000	6155063	0.05000	0.050			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	522622	0.50000	0.50	0.00- 20.00	100.00	(M)	BA
2.406	2.407	-0.001	271401	0.50000	0.50	0.00- 20.00	51.93		BA
2.688	2.688	0.000	726951	0.50000	0.52	0.00- 20.00	139.10		BA
2.788	2.789	-0.001	558273	0.50000	0.50	0.00- 20.00	106.82		BA
2.850	2.851	-0.001	1718599	0.50000	0.53	0.00- 20.00	328.84		BA
Average of Peak Amounts =					0.51000				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.571	8.571	0.000	5596305	0.05000	0.051				

QC Flag Legend

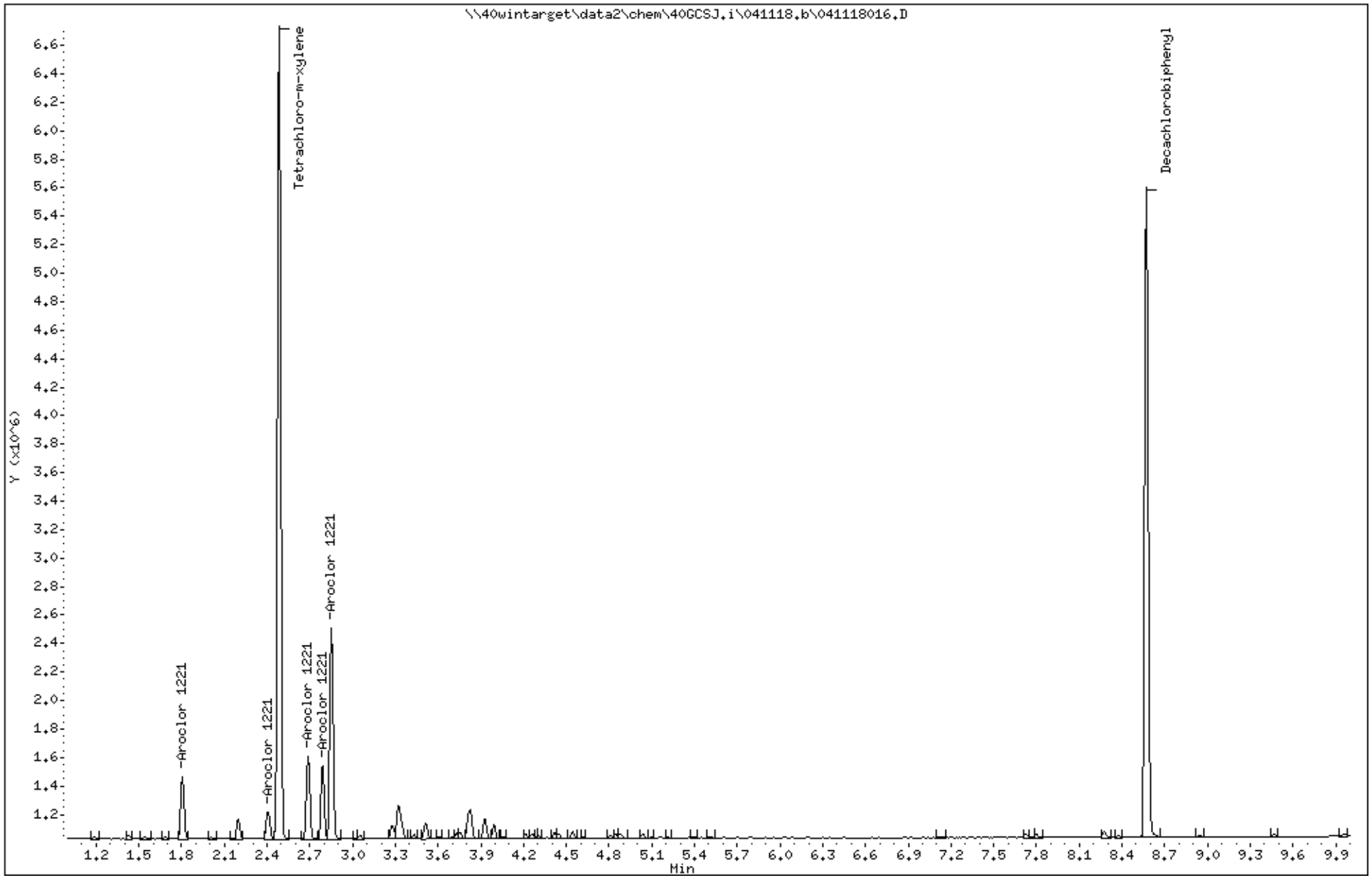
M - Compound response manually integrated.

Review Codes Legend

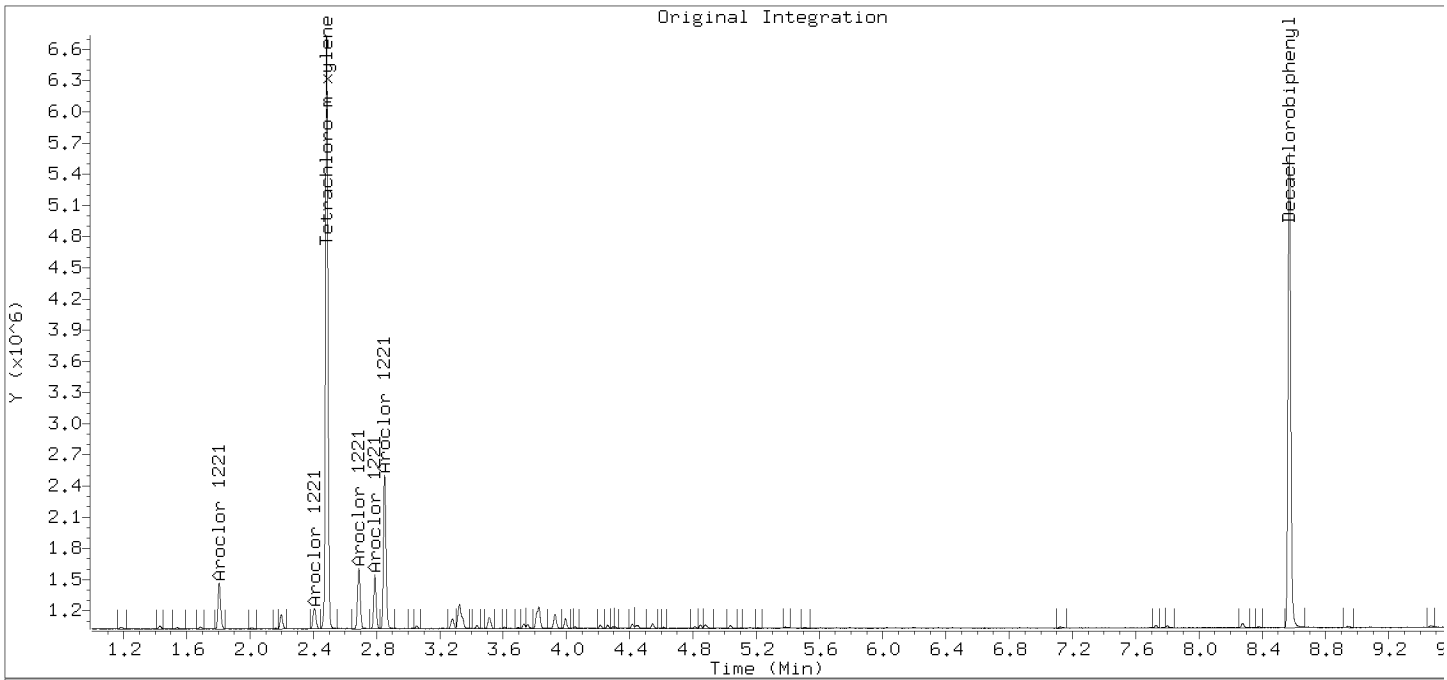
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

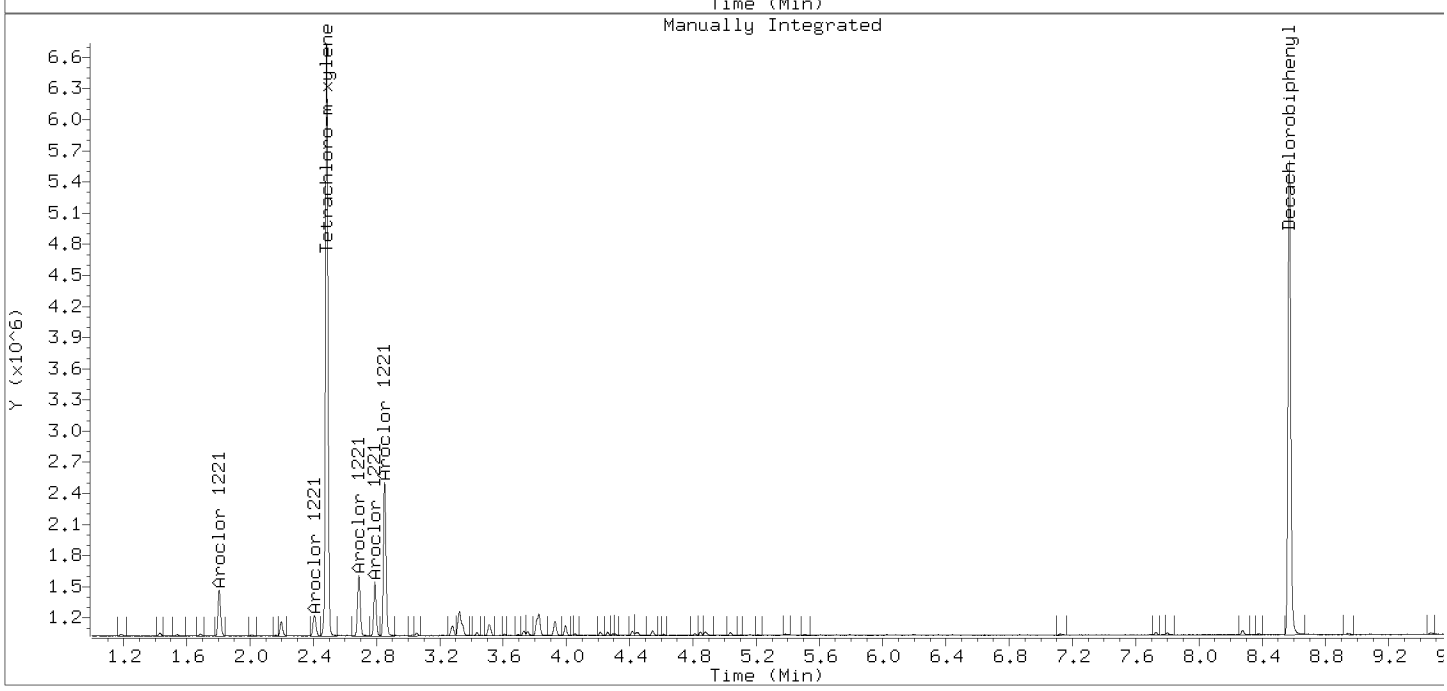
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Date : 11-APR-2018 17:42
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 11-APR-2018 17:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Aroclor 1221	521850	522622	BA
Tetrachloro-m-xylene	6135640	6155063	BA
Decachlorobiphenyl	5596305	5596305	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.189	21465	14887	0.694	0.02		
1.430	42547	30875	0.726	0.04		
1.541	17974	15307	0.852	0.01		
1.689	21939	17922	0.817	0.02		
1.804	15165	13683	0.902	0.01		
2.406	163409	122386	0.749	0.16		
2.486	7071044	6156850	0.871	7.69	$ 2 Tetrachloro-m-xylene	
2.687	237750	183348	0.771	0.24		
2.790	356812	311092	0.872	0.36		
2.852	1295544	1131134	0.873	1.31		
3.055	197481	170508	0.863	0.20		
3.281	31867	21628	0.679	0.03		
3.318	1777287	1580741	0.889	1.80	5 Aroclor 1016	BA
3.344	1028017	929609	0.904	1.04		
3.435	294933	249717	0.847	0.29		
3.513	1776270	1240703	0.698	1.80	5 Aroclor 1016	BA
3.612	24279	20090	0.827	0.02		
3.649	33890	20932	0.618	0.03		
3.695	48768	46839	0.960	0.04		
3.732	451262	443426	0.983	0.45		
3.756	297224	281932	0.949	0.30		
3.826	5044713	2915111	0.578	5.12	5 Aroclor 1016	BA
3.929	2155981	1729240	0.802	2.18	5 Aroclor 1016	BA
3.994	1445687	1307776	0.905	1.46	5 Aroclor 1016	BA
4.058	425641	378027	0.888	0.43		
4.137	164371	150964	0.918	0.16		
4.215	1285071	1184350	0.922	1.30		
4.262	1157332	1070866	0.925	1.17		
4.292	475516	488267	1.027	0.48		
4.310	609616	558240	0.916	0.61		
4.368	40261	27033	0.671	0.04		
4.417	1595703	1459303	0.915	1.62		
4.452	1155234	895189	0.775	1.17		
4.546	2043760	1793596	0.878	2.07		
4.618	461224	413748	0.897	0.46		
4.678	29560	23530	0.796	0.03		
4.728	75815	60917	0.803	0.07		

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	7071043	0.05000	0.057			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	1777286	0.50000	0.58	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1776269	0.50000	0.57	0.00- 20.00	99.94	BA
3.826	3.826	0.000	5044712	0.50000	0.57	0.00- 20.00	283.84	BA
3.928	3.929	-0.001	2155980	0.50000	0.57	0.00- 20.00	121.31	BA
3.994	3.994	0.000	1445687	0.50000	0.56	0.00- 20.00	81.34	BA
Average of Peak Amounts =					0.57000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	5063480	0.50000	0.57	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	5758726	0.50000	0.58	0.00- 20.00	113.73	CO
7.250	7.251	-0.001	2734027	0.50000	0.57	0.00- 20.00	54.00	CO
7.442	7.443	-0.001	1703182	0.50000	0.58	0.00- 20.00	33.64	CO
7.898	7.901	-0.003	1514488	0.50000	0.57	0.00- 20.00	29.91	CO
Average of Peak Amounts =					0.57400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	6381994	0.05000	0.058			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D

Date : 13-APR-2018 14:33

Client ID: 1660-CCV

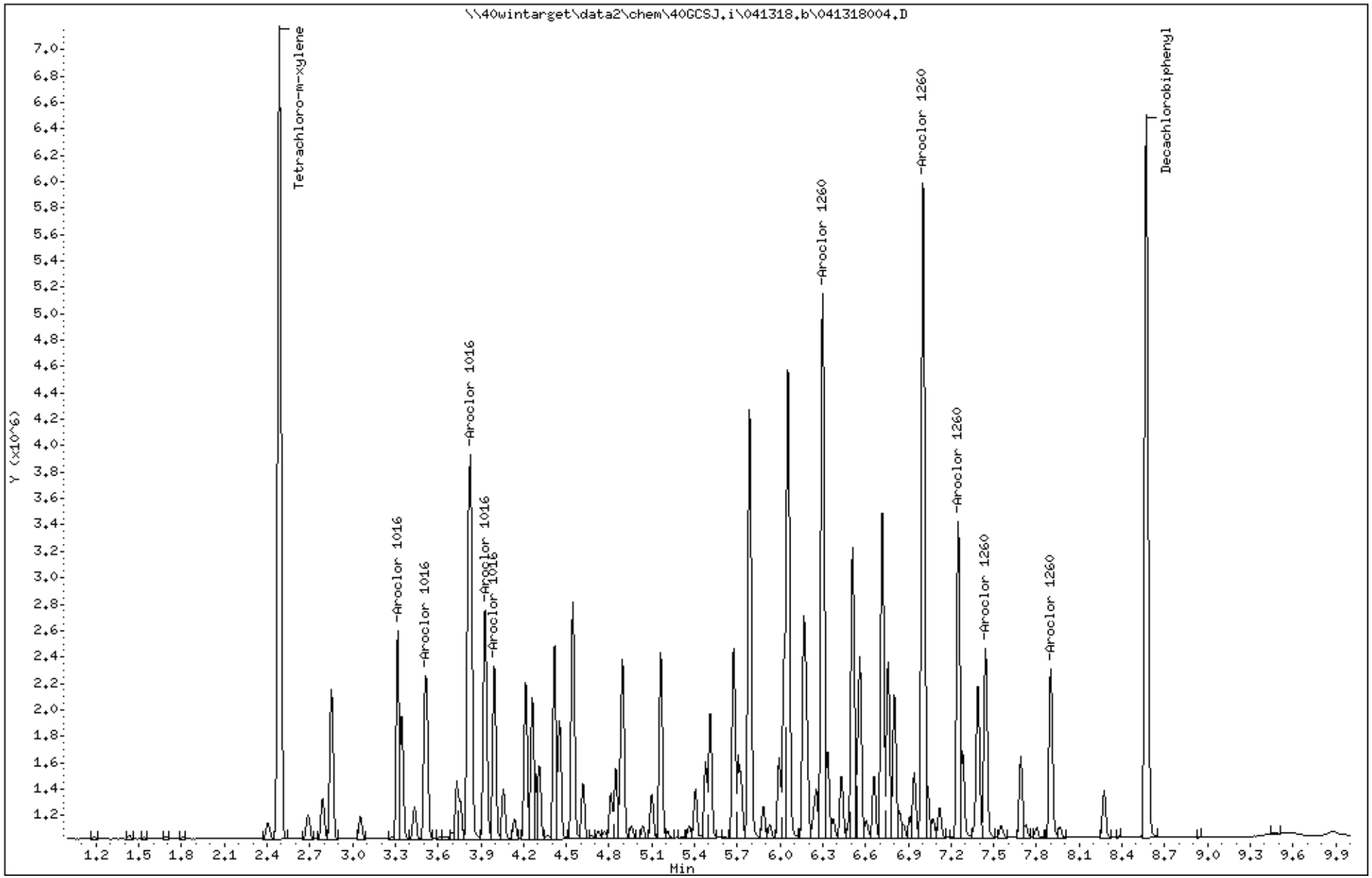
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

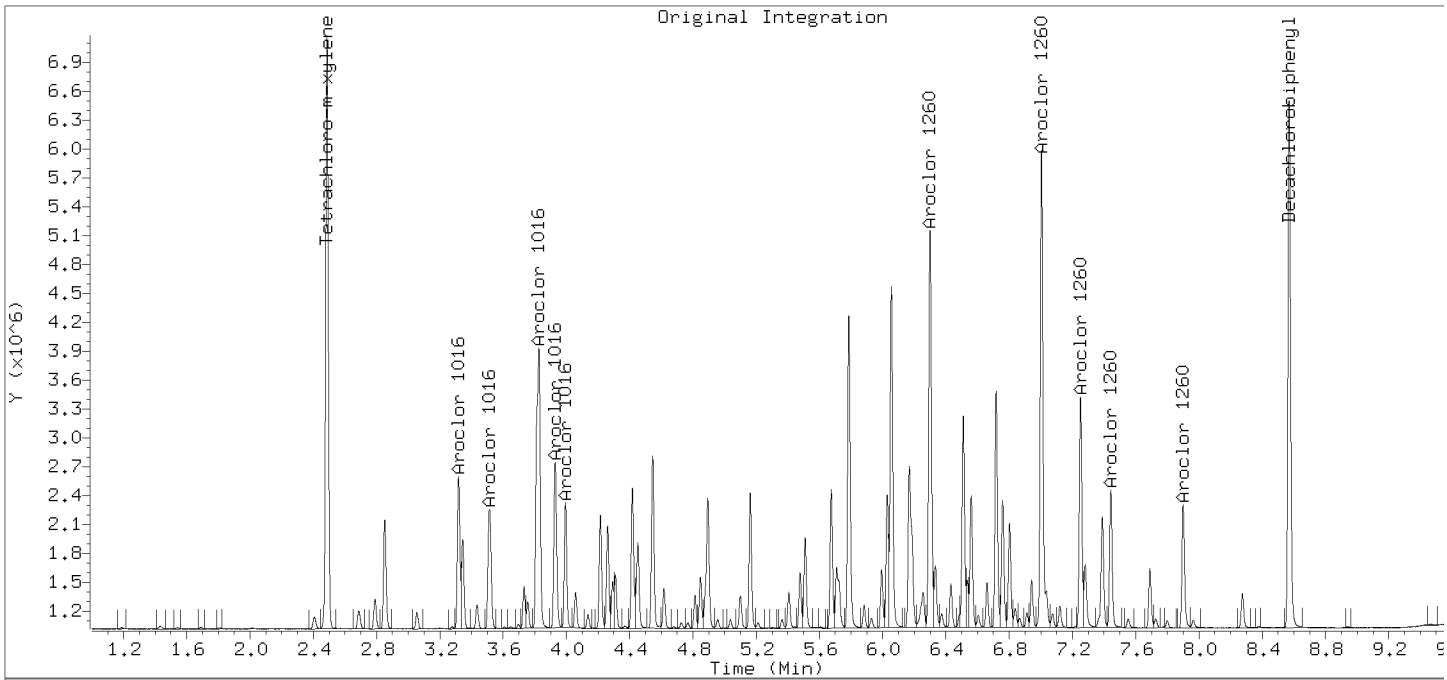
Operator: BLM

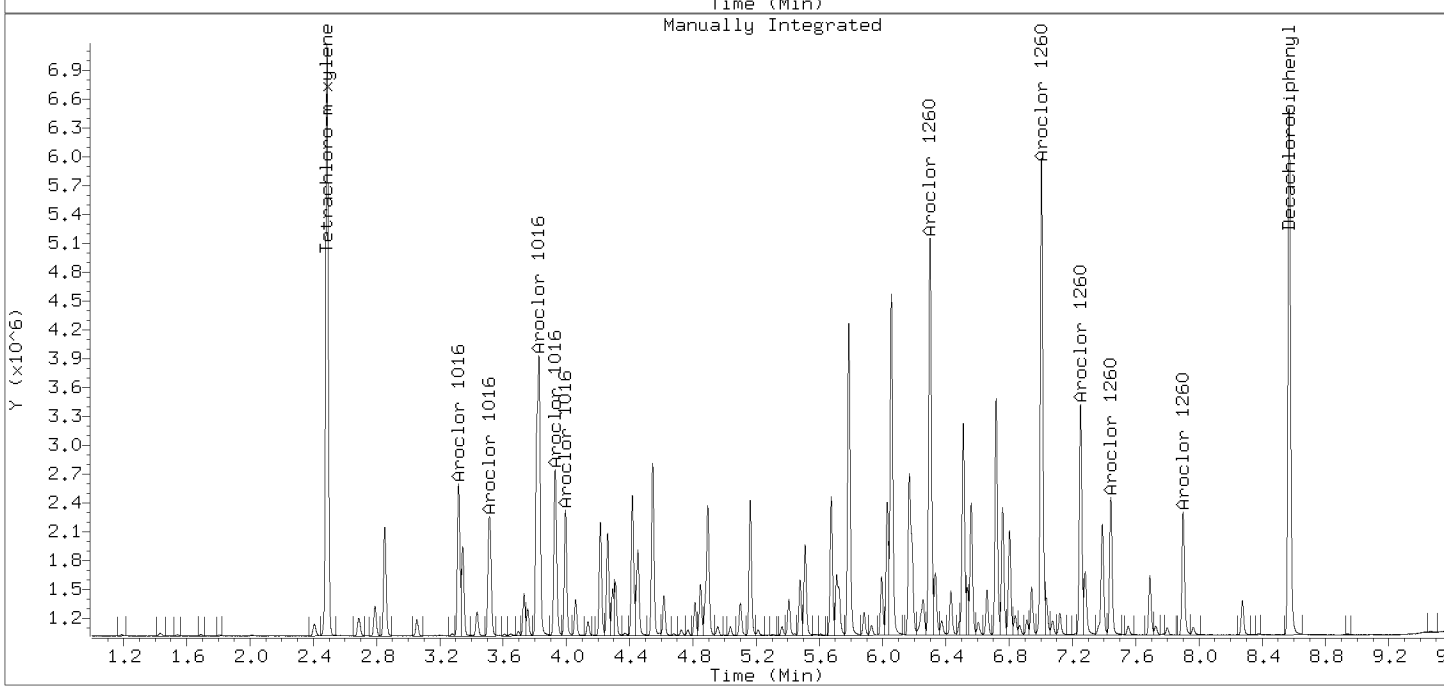
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 13-APR-2018 17:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	35572	31950	0.898	0.19		
1.536	20305	13291	0.655	0.11		
1.683	11489	12119	1.055	0.06		
1.805	523973	433855	0.828	2.92	1 Aroclor 1221	BA
2.012	15126	12373	0.818	0.08		
2.197	170980	137777	0.806	0.95		
2.406	273988	196115	0.716	1.53	1 Aroclor 1221	BA
2.484	6183603	5679394	0.918	34.76	$ 2 Tetrachloro-m-xylene	BA
2.688	715504	580104	0.811	4.00	1 Aroclor 1221	BA
2.789	559835	505932	0.904	3.13	1 Aroclor 1221	BA
2.851	1718284	1500887	0.873	9.60	1 Aroclor 1221	BA
3.051	34459	28740	0.834	0.19		
3.278	125100	93208	0.745	0.69		
3.324	410492	229191	0.558	2.29		
3.434	36964	32464	0.878	0.20		
3.512	148129	108351	0.731	0.82		
3.608	20428	17820	0.872	0.11		
3.694	12339	10697	0.867	0.06		
3.731	43504	42912	0.986	0.24		
3.756	43720	38872	0.889	0.24		
3.826	340241	206410	0.607	1.90		
3.929	163179	137719	0.844	0.91		
3.994	97147	91329	0.940	0.54		
4.056	24621	17302	0.703	0.13		
4.213	41460	36173	0.872	0.23		
4.262	30742	31254	1.017	0.17		
4.295	15830	10118	0.639	0.08		
4.417	39642	39762	1.003	0.22		
4.445	33993	24275	0.714	0.19		
4.544	55694	48859	0.877	0.31		
4.616	16331	13476	0.825	0.09		
4.812	20567	21022	1.022	0.11		
4.849	35095	33221	0.947	0.19		
4.880	51731	36270	0.701	0.28		
5.037	32328	31494	0.974	0.18		
5.097	9329	8768	0.940	0.05		
5.160	9498	8086	0.851	0.05		

Data File: ...wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D Page 2
Report Date: 19-Apr-2018 09:10

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 13-APR-2018 17:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6183603	0.05000	0.050		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	523973	0.50000	0.50	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	273988	0.50000	0.50	0.00- 20.00	52.29	BA
2.687	2.688	-0.001	715504	0.50000	0.52	0.00- 20.00	136.55	BA
2.788	2.789	-0.001	559834	0.50000	0.51	0.00- 20.00	106.84	BA
2.851	2.851	0.000	1718284	0.50000	0.53	0.00- 20.00	327.93	BA
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5608809	0.05000	0.051			

QC Flag Legend

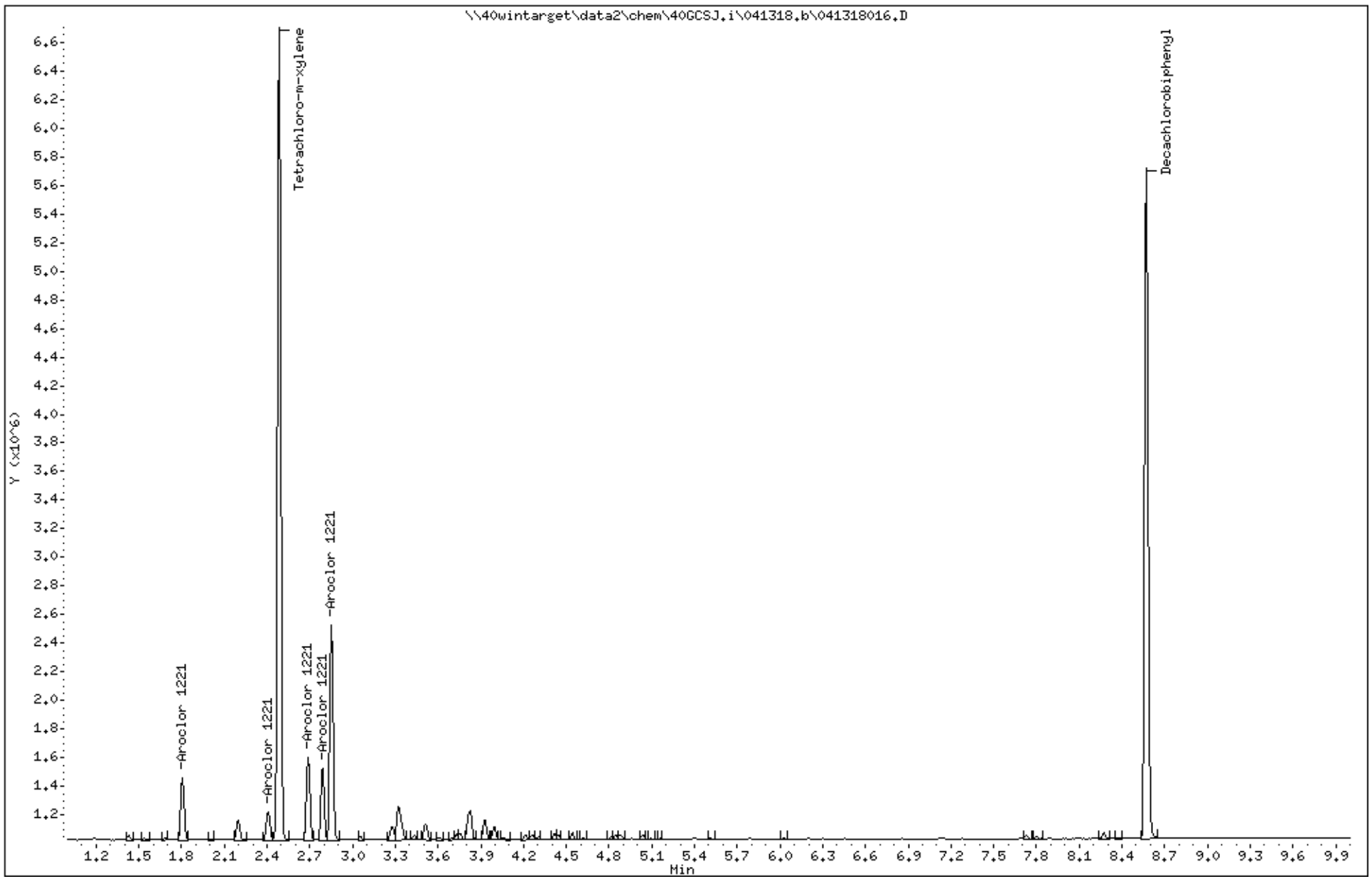
M - Compound response manually integrated.

Review Codes Legend

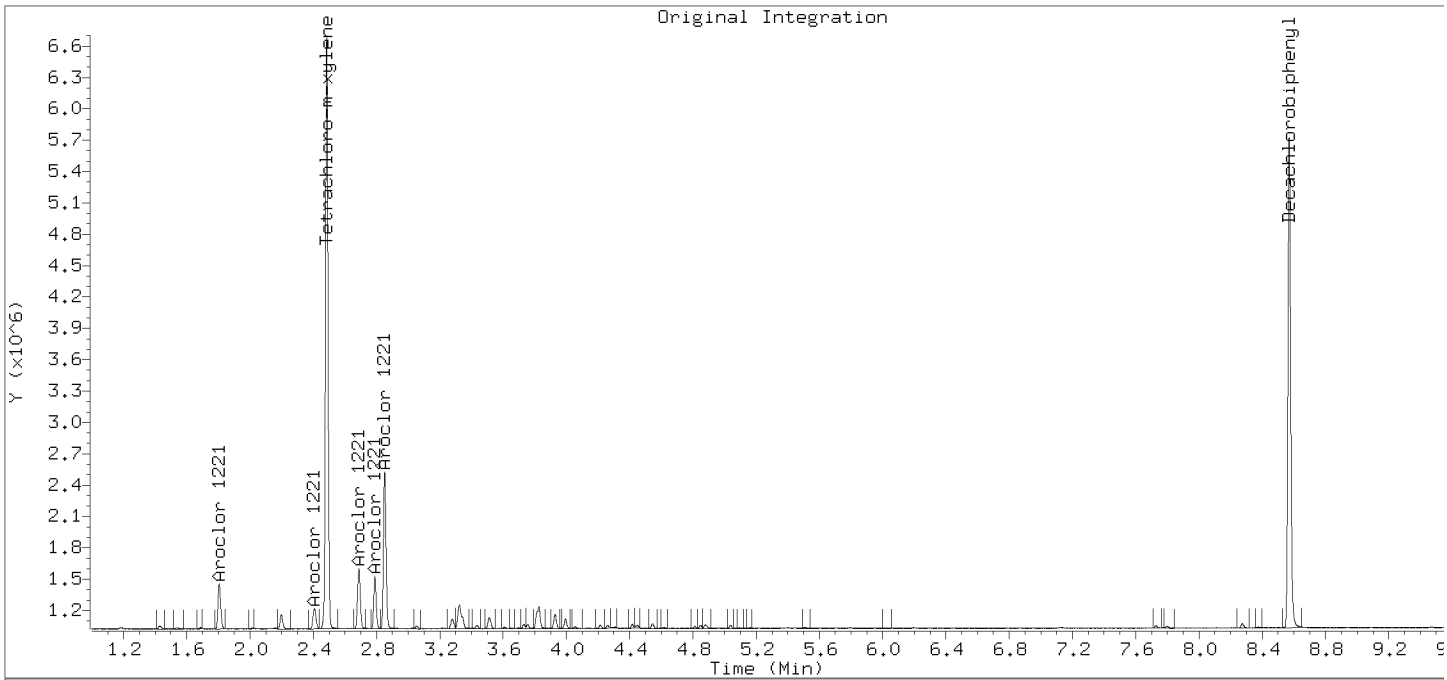
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

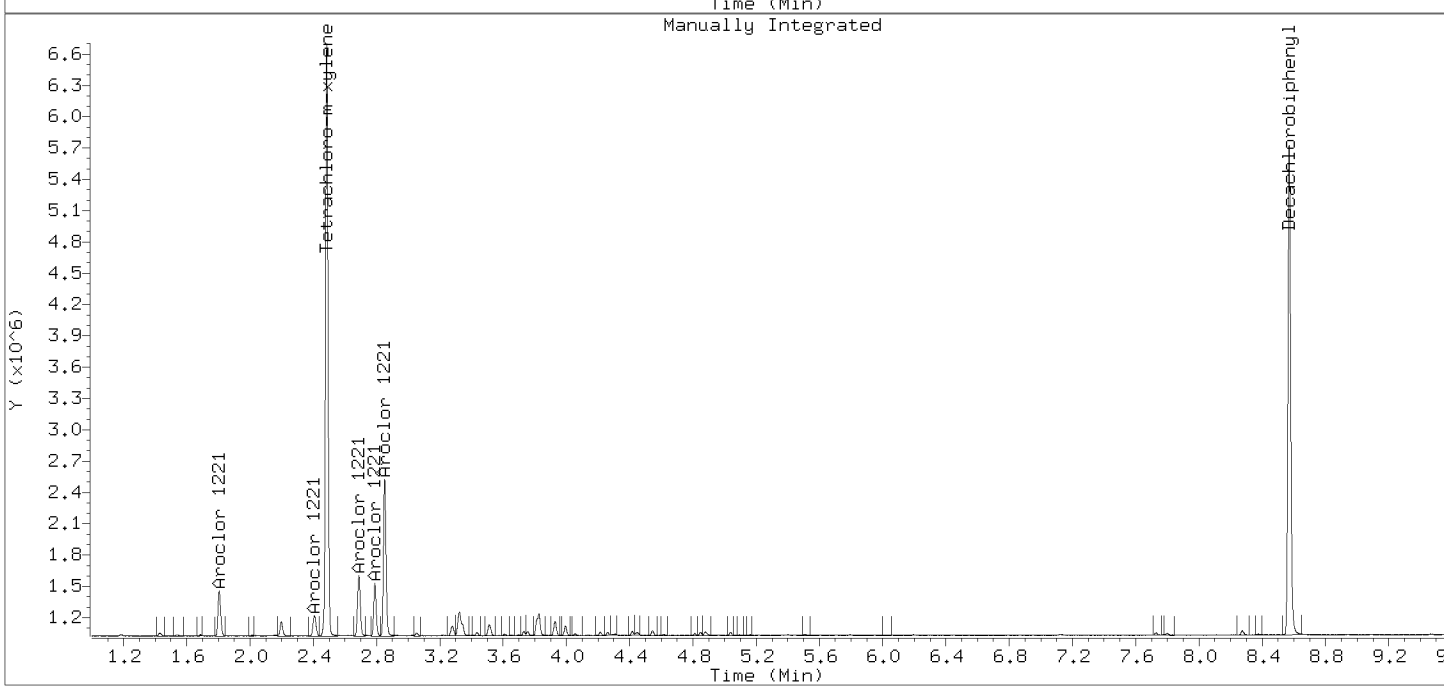
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Date : 13-APR-2018 17:43
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 13-APR-2018 20:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	23661	17932	0.758	0.08		
1.429	38489	27439	0.713	0.13		
1.535	18649	14351	0.770	0.06		
1.686	37093	30941	0.834	0.12		
1.805	315222	245450	0.779	1.09		
2.196	101804	74837	0.735	0.35		
2.407	210536	149046	0.708	0.73		
2.485	6074380	5393976	0.888	21.63	$ 2 Tetrachloro-m-xylene	
2.688	461144	359629	0.780	1.60		
2.789	424148	381141	0.899	1.47		
2.851	1381203	1195746	0.866	4.81	4 Aroclor 1232	BA
3.053	94421	76148	0.806	0.32		
3.281	78688	58579	0.744	0.27		
3.319	796604	689108	0.865	2.77		
3.344	420880	383626	0.911	1.46		
3.435	125025	107826	0.862	0.43		
3.512	717670	512208	0.714	2.50	4 Aroclor 1232	BA
3.607	22523	19986	0.887	0.07		
3.644	16912	11123	0.658	0.05		
3.697	27088	23708	0.875	0.09		
3.730	189587	184516	0.973	0.66		
3.755	153387	123514	0.805	0.53		
3.826	2087589	1216132	0.583	7.28	4 Aroclor 1232	BA
3.929	883864	740216	0.837	3.08	4 Aroclor 1232	BA
3.994	590315	554411	0.939	2.05	4 Aroclor 1232	BA
4.058	162217	138815	0.856	0.56		
4.136	65396	53342	0.816	0.22		
4.214	422456	391611	0.927	1.47		
4.260	412138	389518	0.945	1.43		
4.292	180191	177563	0.985	0.62		
4.310	211344	197819	0.936	0.73		
4.372	23491	16340	0.696	0.08		
4.417	581066	534952	0.921	2.02		
4.451	470544	329295	0.700	1.64		
4.545	735726	683026	0.928	2.56		
4.617	176394	158267	0.897	0.61		
4.675	18143	12024	0.663	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	38886	33251	0.855	0.13	
4.767	43016	36894	0.858	0.15	
4.812	336592	311443	0.925	1.17	
4.847	597362	564793	0.945	2.08	
4.878	764108	588613	0.770	2.66	
4.958	79798	65152	0.816	0.27	
5.037	642048	576891	0.899	2.24	
5.097	117618	88502	0.752	0.41	
5.163	139543	123785	0.887	0.48	
5.212	97513	89303	0.916	0.34	
5.310	25155	21364	0.849	0.08	
5.362	92752	72508	0.782	0.32	
5.407	147710	118225	0.800	0.51	
5.445	92102	79633	0.865	0.32	
5.509	247885	183143	0.739	0.86	
5.605	72846	61702	0.847	0.25	
5.672	15256	12887	0.845	0.05	
5.739	25184	17189	0.683	0.08	
5.791	165318	130607	0.790	0.57	
5.889	25263	14380	0.569	0.08	
6.023	128058	112034	0.875	0.44	
6.053	29840	28169	0.944	0.10	
6.298	43181	35766	0.828	0.15	
6.510	11295	12453	1.103	0.03	
6.717	16426	13919	0.847	0.05	
6.758	10632	9461	0.890	0.03	
6.802	9708	10688	1.101	0.03	
7.003	24779	22663	0.915	0.08	
7.122	20710	12560	0.606	0.07	
7.250	13411	14258	1.063	0.04	
7.441	10310	8900	0.863	0.03	
7.681	10475	6837	0.653	0.03	
7.729	30601	24872	0.813	0.10	
7.765	10878	7077	0.651	0.03	
7.798	26740	19237	0.719	0.09	
7.901	10305	8975	0.871	0.03	
8.273	56509	47263	0.836	0.19	
8.375	16676	11392	0.683	0.05	
8.569	5636339	4749490	0.843	19.66	$ 12 Decachlorobiphenyl
8.943	14264	9872	0.692	0.04	
9.958	14957	9238	0.618	0.05	
	28662043	24039550		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 13-APR-2018 20:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6074380	0.05000	0.049			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1381203	0.50000	0.55	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	717670	0.50000	0.54	0.00- 20.00	51.96	BA
3.826	3.827	-0.001	2087589	0.50000	0.56	0.00- 20.00	151.14	BA
3.928	3.929	-0.001	883863	0.50000	0.55	0.00- 20.00	63.99	BA
3.993	3.995	-0.002	590314	0.50000	0.54	0.00- 20.00	42.74	BA
Average of Peak Amounts =					0.54800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5636338	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318028.D

Date : 13-APR-2018 20:53

Client ID: 1232-CCV

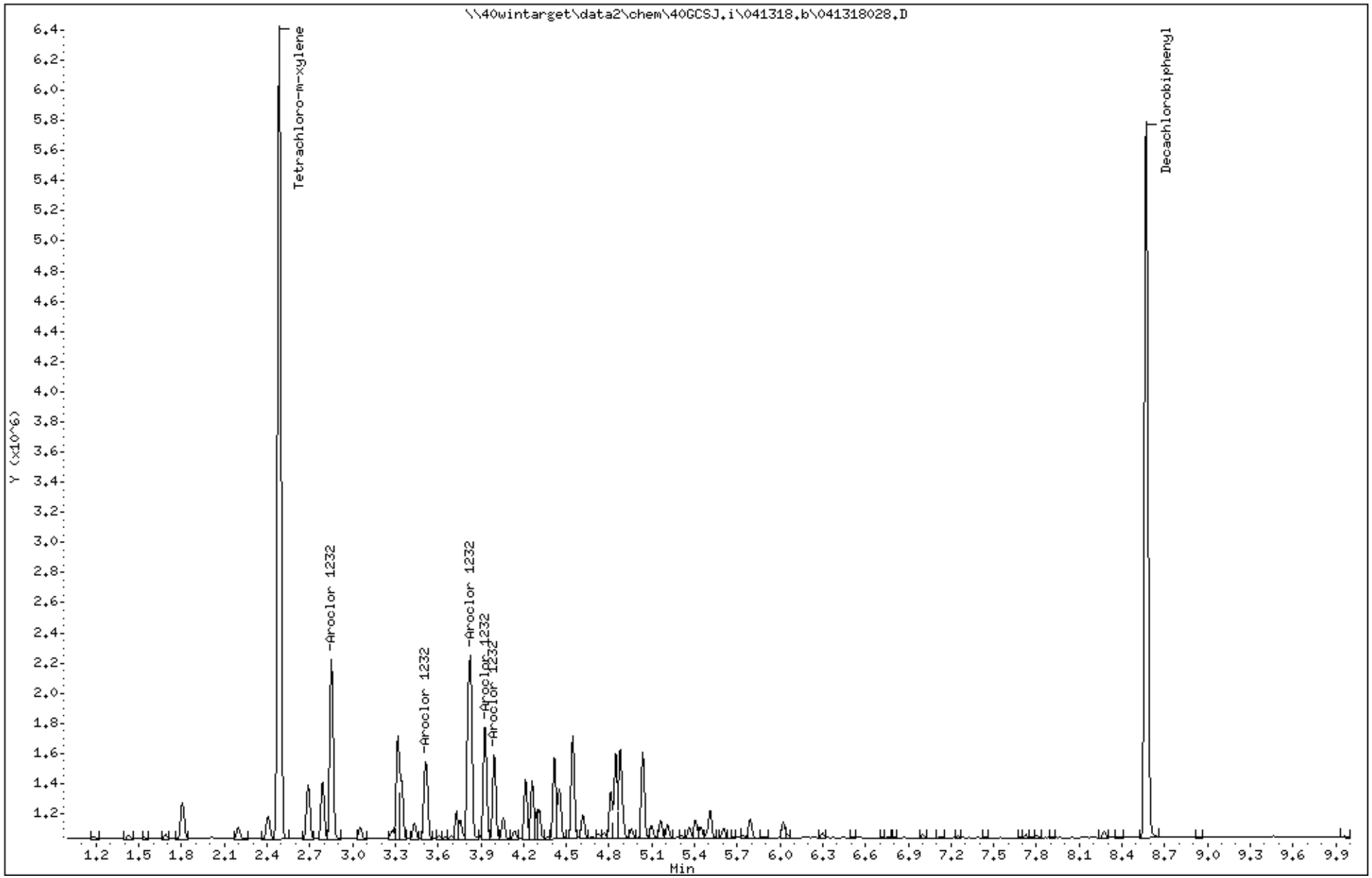
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

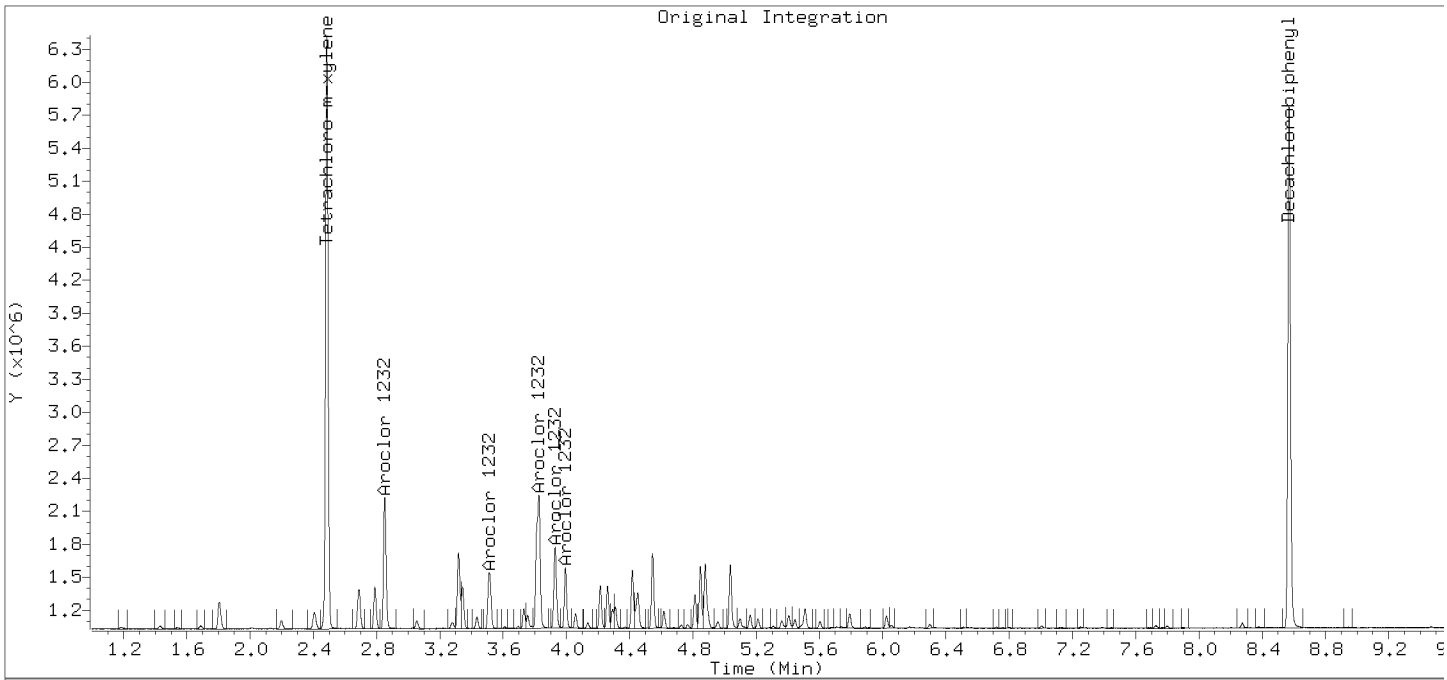
Operator: BLM

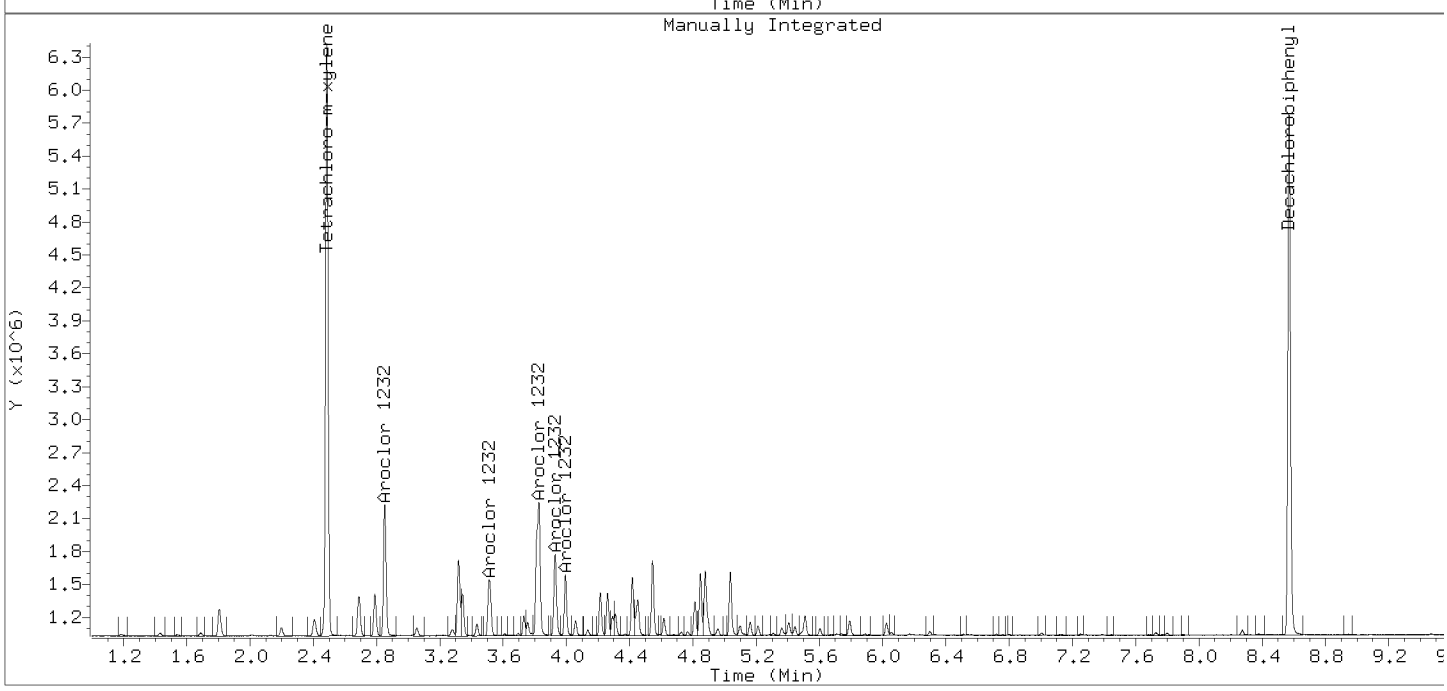
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 13-APR-2018 20:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Tetrachloro-m-xylene	6074380	6074380	
Decachlorobiphenyl	5636338	5636338	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318032.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 13-APR-2018 21:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32 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	35475	26891	0.758	0.08		
1.429	40442	30724	0.760	0.09		
1.541	18536	13360	0.721	0.04		
1.684	15551	13241	0.851	0.03		
1.806	14065	13837	0.984	0.03		
2.011	30326	17341	0.572	0.07		
2.404	128737	93535	0.727	0.31		
2.485	6122760	5714931	0.933	15.38	$ 2 Tetrachloro-m-xylene	
2.686	183754	147788	0.804	0.44		
2.788	284622	257972	0.906	0.69		
2.851	983941	906643	0.921	2.40		
3.032	10373	11918	1.149	0.02		
3.054	144621	130006	0.899	0.35		
3.276	23177	19412	0.838	0.05		
3.317	1327977	1231395	0.927	3.24	3 Aroclor 1242	BA
3.344	761703	707331	0.929	1.86		
3.434	213159	192504	0.903	0.52		
3.512	1317252	937850	0.712	3.22	3 Aroclor 1242	BA
3.610	24385	20294	0.832	0.05		
3.647	22961	15577	0.678	0.05		
3.696	37892	35647	0.941	0.09		
3.731	334939	325430	0.972	0.81		
3.756	219703	207160	0.943	0.53		
3.825	3801016	2196229	0.578	9.29	3 Aroclor 1242	BA
3.928	1626822	1331243	0.818	3.97	3 Aroclor 1242	BA
3.993	1088930	1033533	0.949	2.66	3 Aroclor 1242	BA
4.058	310582	284560	0.916	0.75		
4.136	126705	111283	0.878	0.30		
4.214	890377	841014	0.945	2.17		
4.260	861817	799327	0.927	2.10		
4.292	349274	361146	1.034	0.85		
4.309	452077	419397	0.928	1.10		
4.370	28133	22748	0.809	0.06		
4.416	1189857	1091973	0.918	2.90		
4.450	930717	691197	0.743	2.27		
4.545	1554337	1412844	0.909	3.80		
4.617	351191	316534	0.901	0.85		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	29836	21900	0.734	0.07	
4.724	74379	68246	0.918	0.18	
4.768	87758	79586	0.907	0.21	
4.812	727693	699822	0.962	1.77	
4.846	1243913	1165317	0.937	3.04	
4.877	1619965	1196448	0.739	3.96	
4.957	187324	138945	0.742	0.45	
5.036	1333564	1209058	0.907	3.26	
5.098	283497	217817	0.768	0.69	
5.160	332603	289423	0.870	0.81	
5.211	259294	225138	0.868	0.63	
5.282	21419	20413	0.953	0.05	
5.306	60140	48097	0.800	0.14	
5.362	211939	180991	0.854	0.51	
5.406	364106	291338	0.800	0.89	
5.445	234247	198300	0.847	0.57	
5.509	594573	452880	0.762	1.45	
5.603	177905	150431	0.846	0.43	
5.713	45421	29534	0.650	0.11	
5.740	47355	43260	0.914	0.11	
5.790	407089	325696	0.800	0.99	
5.888	68645	38699	0.564	0.16	
6.023	402423	292363	0.727	0.98	
6.165	27249	22241	0.816	0.06	
6.190	18519	14853	0.802	0.04	
6.228	40003	20055	0.501	0.09	
6.297	114656	95364	0.832	0.28	
6.332	27337	24155	0.884	0.06	
6.377	21466	15621	0.728	0.05	
6.444	19635	10070	0.513	0.04	
6.534	47314	35146	0.743	0.11	
6.801	26930	22509	0.836	0.06	
7.123	16202	12068	0.745	0.03	
7.726	27594	23287	0.844	0.06	
7.768	12097	10337	0.855	0.02	
7.801	24619	18145	0.737	0.06	
8.272	55786	44782	0.803	0.13	
8.375	19412	13379	0.689	0.04	
8.570	5673454	4747599	0.837	13.87	$ 12 Decachlorobiphenyl
8.939	20836	12989	0.623	0.05	
9.460	20311	12134	0.597	0.04	
9.957	12779	13027	1.019	0.03	
	40899477	34535278		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318032.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 13-APR-2018 21:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32 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	6122759	0.05000	0.050			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1327976	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1317251	0.50000	0.52	0.00- 20.00	99.19	BA
3.825	3.827	-0.002	3801016	0.50000	0.53	0.00- 20.00	286.23	BA
3.928	3.929	-0.001	1626822	0.50000	0.53	0.00- 20.00	122.50	BA
3.993	3.995	-0.002	1088930	0.50000	0.53	0.00- 20.00	82.00	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5673454	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318032.D

Date : 13-APR-2018 21:57

Client ID: 1242-CCV

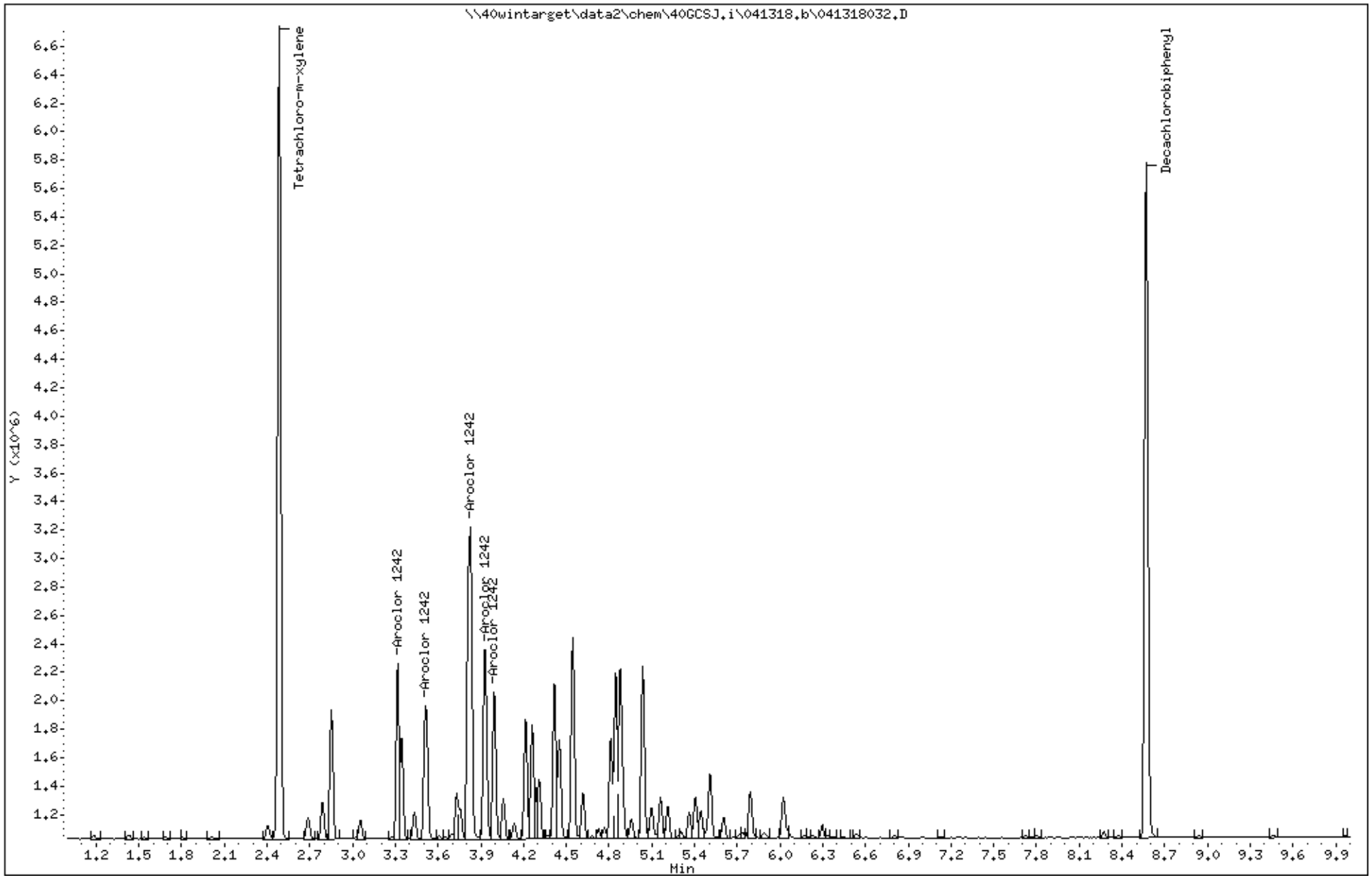
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

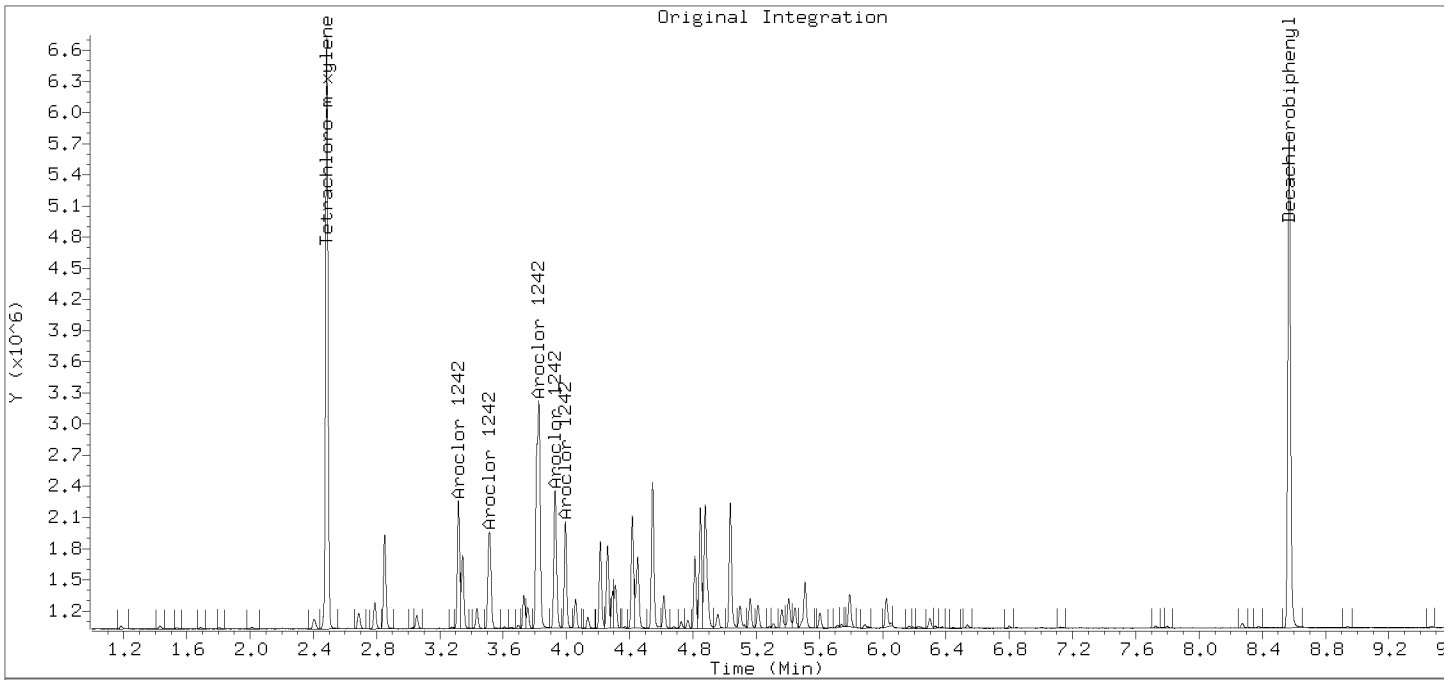
Operator: BLM

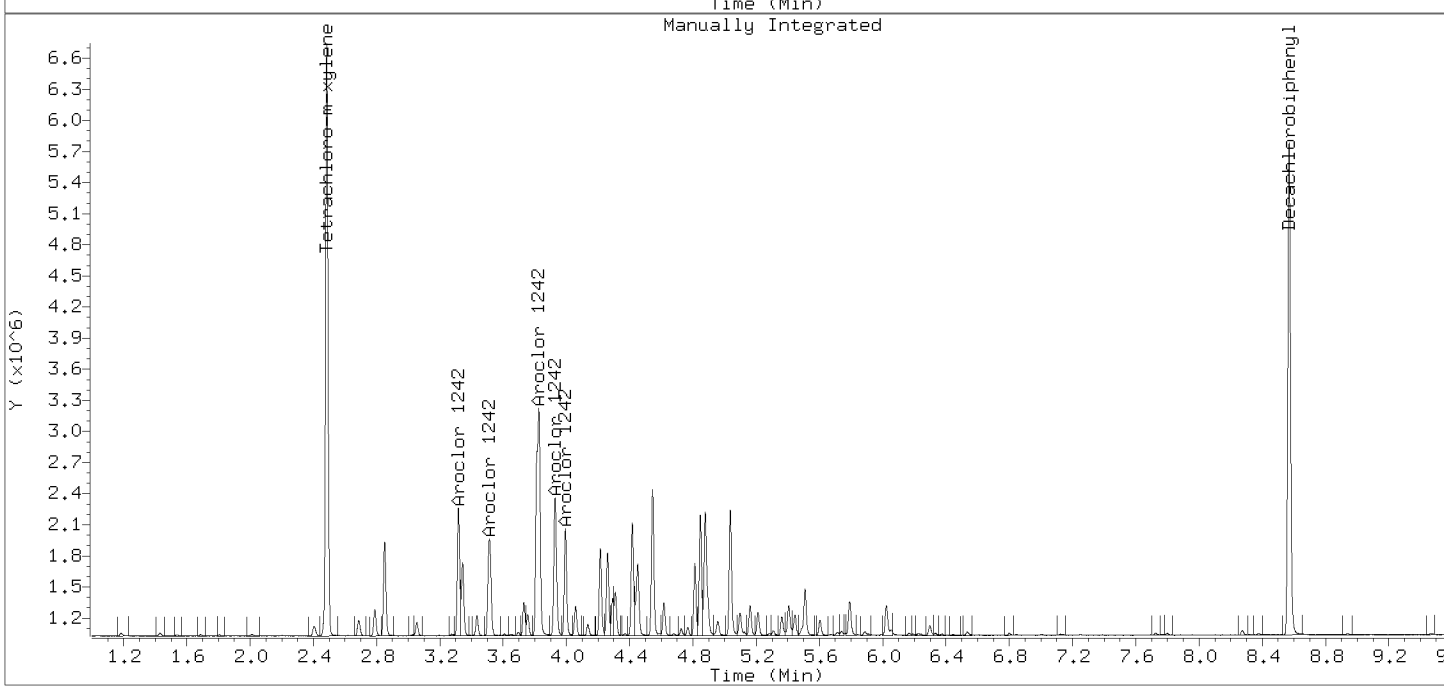
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318032.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 13-APR-2018 21:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1321311	1327976	BA
Aroclor 1242	1321311	1327976	BA
Aroclor 1242	1321311	1327976	BA
Aroclor 1242	1321311	1327976	BA
Aroclor 1242	1321311	1327976	BA
Tetrachloro-m-xylene	6122759	6122759	
Decachlorobiphenyl	5673454	5673454	

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157703

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 1669842

Date Analyzed: 04/10/2018 14:22

Lab File ID: 041018.B\041018008.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018008.D
Lab Smp Id: 1669842 Client Smp ID: MB
Inj Date : 10-APR-2018 14:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669842,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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
1.187	17798	12521	0.704	0.09		
1.427	12796	7888	0.616	0.06		
2.009	12767	7664	0.600	0.06		
2.198	16828	14813	0.880	0.08		
2.485	8899270	8460069	0.951	47.29	$ 2 Tetrachloro-m-xylene	
2.786	16280	14338	0.881	0.08		
4.289	10326	9713	0.941	0.05		
5.033	9460	5850	0.618	0.05		
5.379	11011	5051	0.459	0.05		
5.508	9716	8260	0.850	0.05		
5.786	10672	8681	0.813	0.05		
6.348	11901	6501	0.546	0.06		
7.123	17993	14346	0.797	0.09		
7.687	13151	10025	0.762	0.06		
7.726	48754	43098	0.884	0.25		
7.797	39773	32573	0.819	0.21		
8.273	88608	71430	0.806	0.47		
8.373	12842	9057	0.705	0.06		
8.571	9557387	8170304	0.855	50.89	$ 12 Decachlorobiphenyl	
	18817333	16912182		100.000		

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018008.D
Lab Smp Id: 1669842 Client Smp ID: MB
Inj Date : 10-APR-2018 14:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669842,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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	8899270	0.07218	36			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

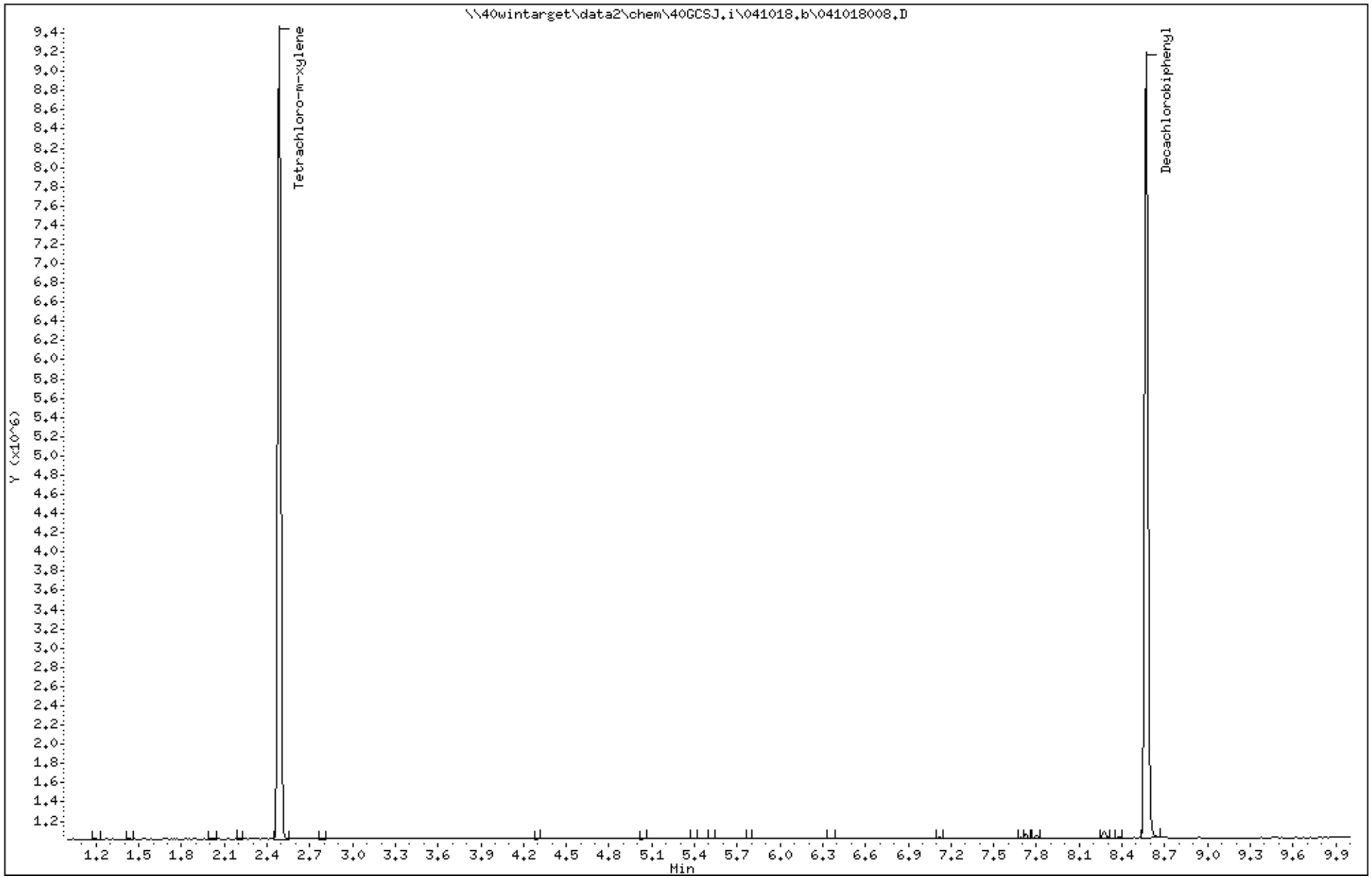
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9557386	0.08723	44			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018008.D
Date : 10-APR-2018 14:22
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1669842,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 14:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1669842

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	8899270	8899270	
Decachlorobiphenyl	9557386	9557386	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157703

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 1669843

Date Analyzed: 04/10/2018 14:38

Lab File ID: 041018.B\041018009.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)	224	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018009.D
Lab Smp Id: 1669843 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 14:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669843,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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
1.181	9734	7616	0.782	0.02		
1.682	11332	8754	0.773	0.02		
1.807	16441	12787	0.778	0.03		
2.200	18584	15707	0.845	0.04		
2.405	109417	83291	0.761	0.24		
2.485	10436265	9573622	0.917	23.85	$ 2 Tetrachloro-m-xylene	
2.688	168834	135977	0.805	0.38		
2.790	204881	182915	0.893	0.46		
2.851	892427	786259	0.881	2.01		
3.057	122131	104366	0.855	0.27		
3.274	20718	15887	0.767	0.04		
3.318	1152204	1053966	0.915	2.59	3 Aroclor 1242	BA
3.345	651891	597716	0.917	1.46		
3.434	182513	162721	0.892	0.41		
3.514	1123437	794038	0.707	2.53	3 Aroclor 1242	BA
3.649	19862	12109	0.610	0.04		
3.696	31485	32998	1.048	0.07		
3.732	294251	283055	0.962	0.66		
3.755	188676	179820	0.953	0.42		
3.826	3206527	1824160	0.569	7.22	3 Aroclor 1242	BA
3.930	1374089	1133508	0.825	3.09	3 Aroclor 1242	BA
3.995	891485	837185	0.939	2.00	3 Aroclor 1242	BA
4.058	253478	225249	0.889	0.57		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.135	108453	88908	0.820	0.24	
4.215	760200	725971	0.955	1.71	
4.261	716031	681772	0.952	1.61	
4.293	298512	301565	1.010	0.67	
4.310	358003	333923	0.933	0.80	
4.370	25108	17703	0.705	0.05	
4.417	985496	914080	0.928	2.22	
4.451	763663	548652	0.718	1.72	
4.545	1261830	1098238	0.870	2.84	
4.617	290130	264049	0.910	0.65	
4.679	19270	16210	0.841	0.04	
4.726	61857	52843	0.854	0.13	
4.768	70908	61324	0.865	0.15	
4.813	559494	523687	0.936	1.26	
4.848	1000565	927443	0.927	2.25	
4.878	1289454	922308	0.715	2.90	
4.956	143766	108015	0.751	0.32	
5.037	1037284	914196	0.881	2.33	
5.098	229173	170168	0.743	0.51	
5.161	256138	222584	0.869	0.57	
5.211	192266	165868	0.863	0.43	
5.283	16088	14879	0.925	0.03	
5.309	45708	36568	0.800	0.10	
5.363	167146	136293	0.815	0.37	
5.406	260084	226021	0.869	0.58	
5.446	170656	142440	0.835	0.38	
5.509	439373	328392	0.747	0.98	
5.604	135073	108887	0.806	0.30	
5.678	15593	13448	0.862	0.03	
5.715	25390	20400	0.803	0.05	
5.742	46585	28486	0.611	0.10	
5.792	281282	213498	0.759	0.63	
5.889	45113	28328	0.628	0.10	
6.023	260796	187292	0.718	0.58	
6.167	24106	15842	0.657	0.05	
6.299	58374	50054	0.857	0.13	
6.335	15795	9876	0.625	0.03	
6.510	10084	8704	0.863	0.02	
6.537	17242	15222	0.883	0.03	
6.715	12644	11673	0.923	0.02	
6.799	9971	10253	1.028	0.02	
7.005	21915	16371	0.747	0.04	
7.123	15231	15214	0.999	0.03	
7.252	9232	8348	0.904	0.02	
7.386	10758	9397	0.874	0.02	
7.689	12527	12216	0.975	0.02	
7.726	52608	46042	0.875	0.11	
7.800	46320	37406	0.808	0.10	
8.275	90164	79137	0.878	0.20	
8.377	13644	11781	0.863	0.03	
8.570	10244646	8792900	0.858	23.08	$ 12 Decachlorobiphenyl
	44382414	37758581		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018009.D
Lab Smp Id: 1669843 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 14:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669843,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10436265	0.08464	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1152204	0.45484	230	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1123437	0.44580	220	0.00- 20.00	97.50	BA
3.826	3.827	-0.001	3206527	0.45058	220	0.00- 20.00	278.30	BA
3.929	3.929	0.000	1374088	0.45177	220	0.00- 20.00	119.26	BA
3.994	3.995	-0.001	891484	0.43535	220	0.00- 20.00	77.37	BA
Average of Peak Concentrations =					220			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10244646	0.09351	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\041018.b\041018009.D

Date : 10-APR-2018 14:38

Client ID: MBLCS

Instrument: 40GCSJ.i

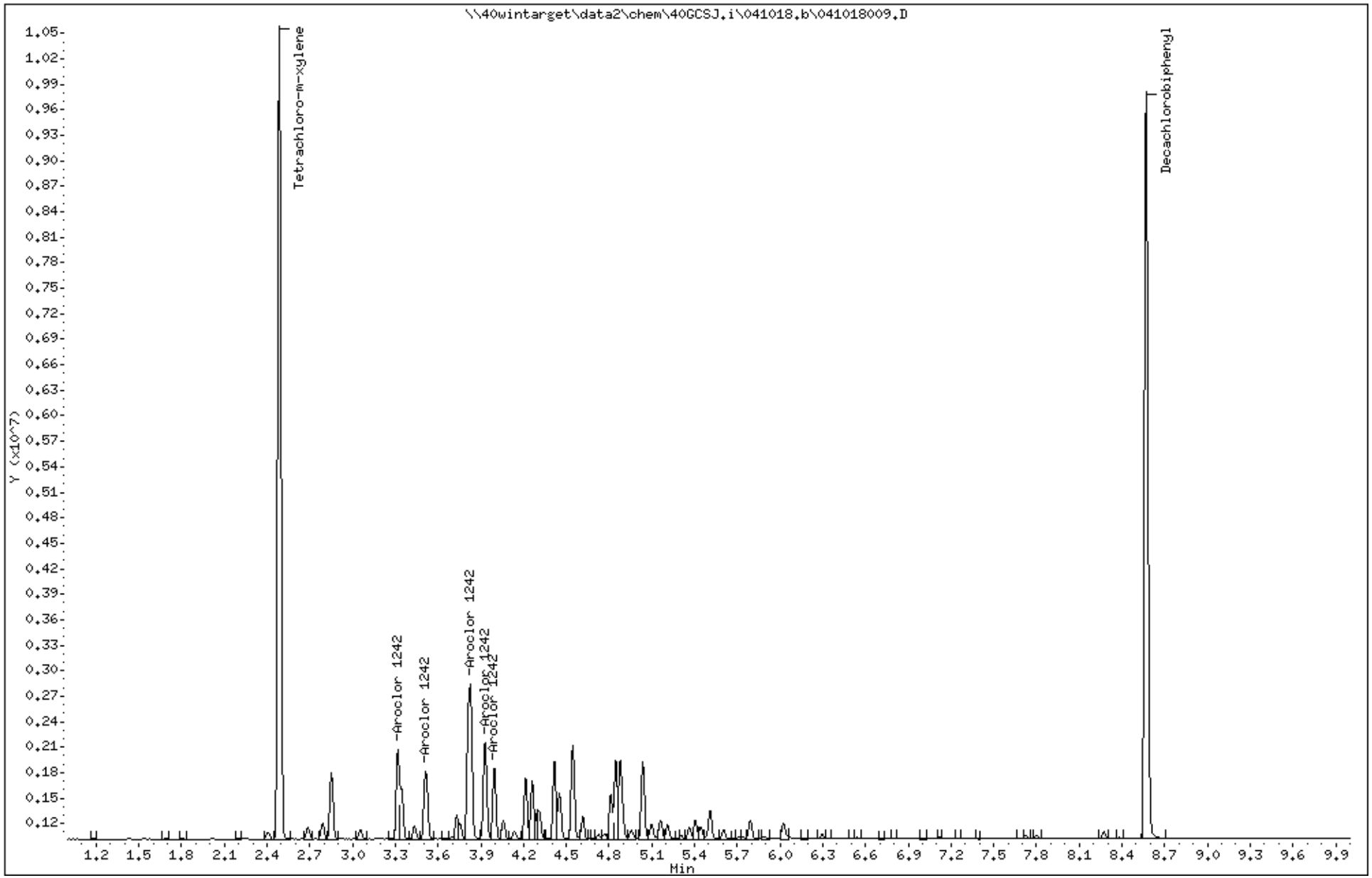
Sample Info: 1669843,

Volume Injected (uL): 1.0

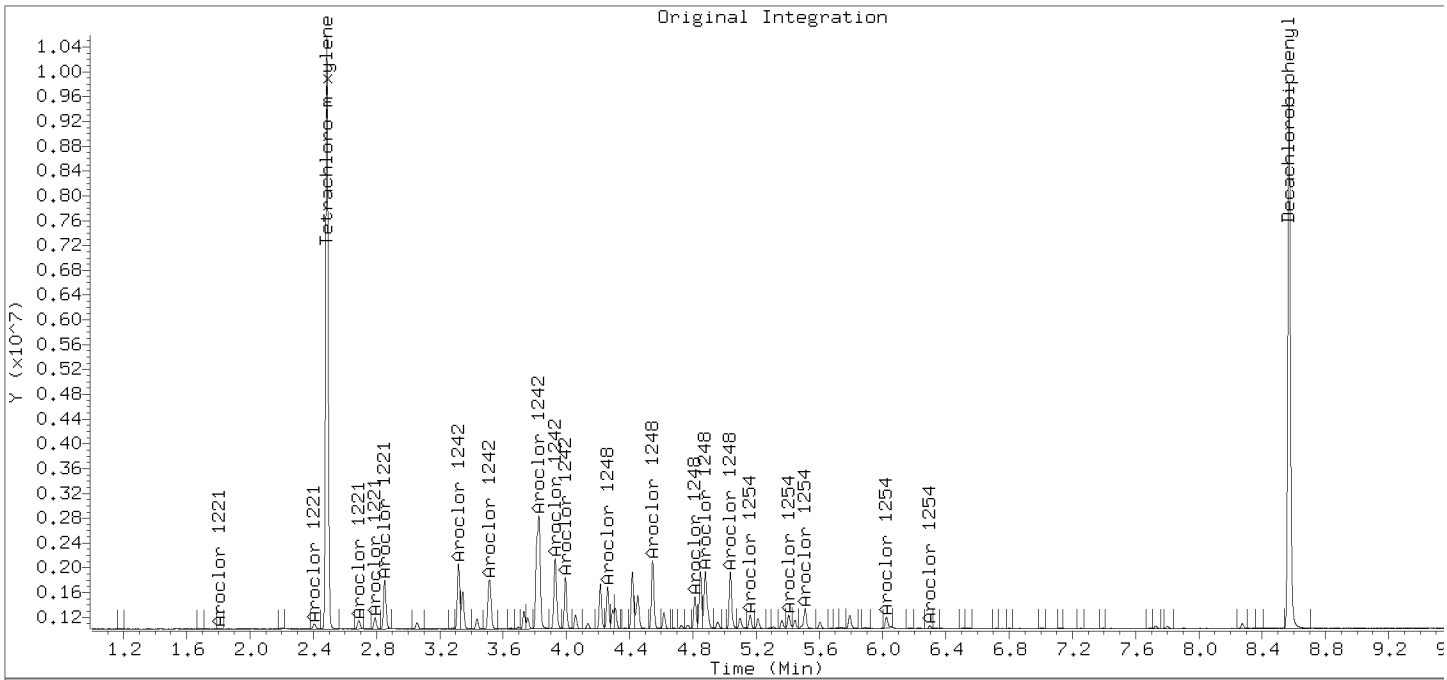
Operator: BLM

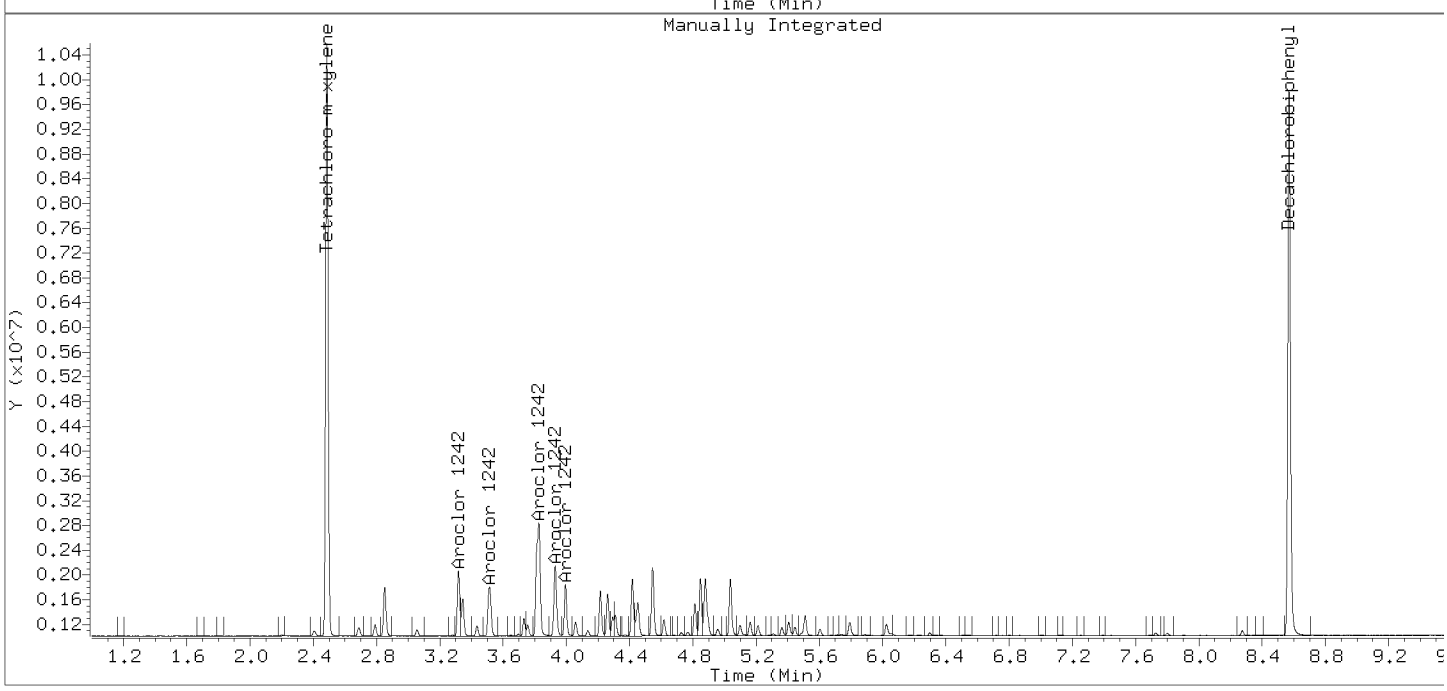
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 14:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1669843





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1232	882082	0	
Aroclor 1232	882082	0	
Aroclor 1232	882082	0	
Aroclor 1232	882082	0	

Aroclor 1232	882082	0	
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10436265	10436265	
Decachlorobiphenyl	10244646	10244646	

==========

SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157703
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 1669844
Date Analyzed: 04/10/2018 20:11
Lab File ID: 041018.B\041018030.D
Initial wt/vol: 10.0207 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)	355	J
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	465	J
12672-29-6	PCB-1248 (Aroclor 1248)	1650	
11097-69-1	PCB-1254 (Aroclor 1254)	1240	
11096-82-5	PCB-1260 (Aroclor 1260)	450	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018030.D
Lab Smp Id: 1669844 Client Smp ID: ND3-170615-01-BB-02
Inj Date : 10-APR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669844 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30 QC Sample: MS
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	10.021	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.409	93353	69321	0.743	0.22		1 Aroclor 1221	BA
2.484	1090904	1031245	0.945	2.67	$	2 Tetrachloro-m-xylene	BA
2.686	33374	26460	0.793	0.08		1 Aroclor 1221	BA
2.789	43320	37874	0.874	0.10		1 Aroclor 1221	BA
2.850	164997	141488	0.858	0.40		1 Aroclor 1221	BA
3.055	55365	51398	0.928	0.13			
3.317	185686	173183	0.933	0.45		3 Aroclor 1242	BA
3.344	115019	104597	0.909	0.28			
3.433	144258	133188	0.923	0.35			
3.518	260735	205050	0.786	0.64		3 Aroclor 1242	BA
3.645	33664	26157	0.777	0.08			
3.730	232640	183614	0.789	0.57			
3.825	962641	546551	0.568	2.36		3 Aroclor 1242	BA
3.928	209486	148218	0.708	0.51		3 Aroclor 1242	BA
3.994	174732	159555	0.913	0.42		3 Aroclor 1242	BA
4.058	64314	57172	0.889	0.15			
4.138	19943	17562	0.881	0.04			
4.214	566955	484099	0.854	1.39			
4.261	826709	801729	0.970	2.03		6 Aroclor 1248	BA
4.292	2363922	1956843	0.828	5.80			
4.417	361990	335282	0.926	0.88			
4.451	237355	198579	0.837	0.58			
4.545	1021840	940367	0.920	2.50		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.589	224081	205142	0.915	0.55	
4.616	86159	75146	0.872	0.21	
4.681	110807	98039	0.885	0.27	
4.736	147351	126206	0.856	0.36	
4.768	493462	466599	0.946	1.21	
4.812	948148	882029	0.930	2.32	6 Aroclor 1248
4.848	280357	263081	0.938	0.68	
4.879	2106111	1128627	0.536	5.17	6 Aroclor 1248
4.956	378101	306141	0.810	0.92	
5.036	599338	549247	0.916	1.47	6 Aroclor 1248
5.101	1246433	1091661	0.876	3.06	
5.157	879024	753362	0.857	2.15	7 Aroclor 1254
5.211	832798	678395	0.815	2.04	
5.283	211948	210997	0.996	0.52	
5.307	410572	349395	0.851	1.00	
5.363	303999	256152	0.843	0.74	
5.406	976057	875106	0.897	2.39	7 Aroclor 1254
5.445	613891	492724	0.803	1.50	
5.478	162814	145978	0.897	0.39	
5.509	1669427	1397699	0.837	4.10	7 Aroclor 1254
5.577	99390	87784	0.883	0.24	
5.604	194753	168443	0.865	0.47	
5.674	900702	838971	0.931	2.21	
5.708	380634	328156	0.862	0.93	
5.741	517947	419585	0.810	1.27	
5.790	2414439	1801401	0.746	5.92	
5.882	323835	236826	0.731	0.79	
5.931	321511	265683	0.826	0.78	
5.993	653673	583625	0.893	1.60	
6.024	1141122	964946	0.846	2.80	7 Aroclor 1254
6.054	644273	536127	0.832	1.58	
6.168	439898	253091	0.575	1.08	
6.228	121794	161821	1.329	0.29	
6.240	272573	203291	0.746	0.66	
6.300	2569328	2105973	0.820	6.79	7 Aroclor 1254
6.332	235233	214110	0.910	0.57	
6.373	118176	90763	0.768	0.29	
6.431	399023	344331	0.863	0.97	
6.508	1036064	918200	0.886	2.54	
6.534	381195	348111	0.913	0.93	
6.559	156815	142058	0.906	0.38	
6.603	85504	69327	0.811	0.20	
6.659	53426	47604	0.891	0.13	
6.716	267069	236630	0.886	0.65	
6.757	337344	294245	0.872	0.82	
6.801	335693	288266	0.859	0.82	
6.840	173782	127232	0.732	0.42	
6.911	38419	37627	0.979	0.09	
6.942	128677	118501	0.921	0.31	
7.003	699838	636412	0.909	1.71	8 Aroclor 1260
7.034	102925	83496	0.811	0.25	
7.072	15826	13756	0.869	0.03	
7.119	41996	30164	0.718	0.10	
7.250	365937	320614	0.876	0.89	8 Aroclor 1260
7.279	124730	98012	0.786	0.30	
7.388	377780	316789	0.839	0.92	
7.442	339690	290736	0.856	0.83	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.554	25184	19672	0.781	0.06	
7.689	96880	87614	0.904	0.23	
7.725	92166	68817	0.747	0.22	
7.797	45832	29399	0.641	0.11	
7.899	258573	218550	0.845	0.63	8 Aroclor 1260
7.963	40616	23385	0.576	0.09	
8.049	29984	26706	0.891	0.07	
8.274	206641	179580	0.869	0.50	
8.375	9989	7440	0.745	0.02	
8.569	1125428	921789	0.819	2.76	$ 12 Decachlorobiphenyl
9.168	30585	25243	0.825	0.07	
	40716973	33812160		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018030.D
Lab Smp Id: 1669844 Client Smp ID: ND3-170615-01-BB-02
Inj Date : 10-APR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669844 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30 QC Sample: MS
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	10.021	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	93352	0.17040	850	0.00- 20.00	0.00	BA
2.685	2.688	-0.003	33374	0.02413	120	0.00- 20.00	0.00	BA
2.789	2.789	0.000	43319	0.03918	200	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	164997	0.05068	250	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					350			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	1090904	0.00885	44		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.316	3.318	-0.002	185686	0.07330	360	0.00- 20.00	100.00(RM)	BA
3.518	3.513	0.005	260734	0.10346	520	0.00- 20.00	140.42	BA
3.825	3.827	-0.002	962640	0.13527	670	0.00- 20.00	518.42	BA
3.928	3.929	-0.001	209486	0.06888	340	0.00- 20.00	112.82	BA
3.994	3.995	-0.001	174732	0.08533	420	0.00- 20.00	94.10	BA
Average of Peak Concentrations =					460			

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	826708	0.35285	1800	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1021839	0.24621	1200	0.00- 20.00	123.60	BA
4.811	4.812	-0.001	948147	0.46705	2300	0.00- 20.00	114.69	BA
4.878	4.879	-0.001	2106111	0.41809	2100	0.00- 20.00	254.76	BA
5.036	5.038	-0.002	599337	0.16701	830	0.00- 20.00	72.50	BA
Average of Peak Concentrations =					1600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.156	5.162	-0.006	879024	0.16790	840	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	976056	0.22693	1100	0.00- 20.00	111.04	BA
5.508	5.510	-0.002	1669427	0.21496	1100	0.00- 20.00	189.92	BA
6.023	6.027	-0.004	1141122	0.23433	1200	0.00- 20.00	129.82	BA
6.300	6.299	0.001	2569327	0.39485	2000	0.00- 20.00	292.29	BA
Average of Peak Concentrations =					1200			
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	699838	0.06988	350	0.00- 20.00	27.24	BA
7.250	7.251	-0.001	365937	0.07656	380	0.00- 20.00	14.24	BA
7.441	7.443	-0.002	339690	0.11653	580	0.00- 20.00	13.22	BA
7.899	7.901	-0.002	258572	0.09799	490	0.00- 20.00	10.06	BA
Average of Peak Concentrations =					450			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1125427	0.01027	51			

QC Flag Legend

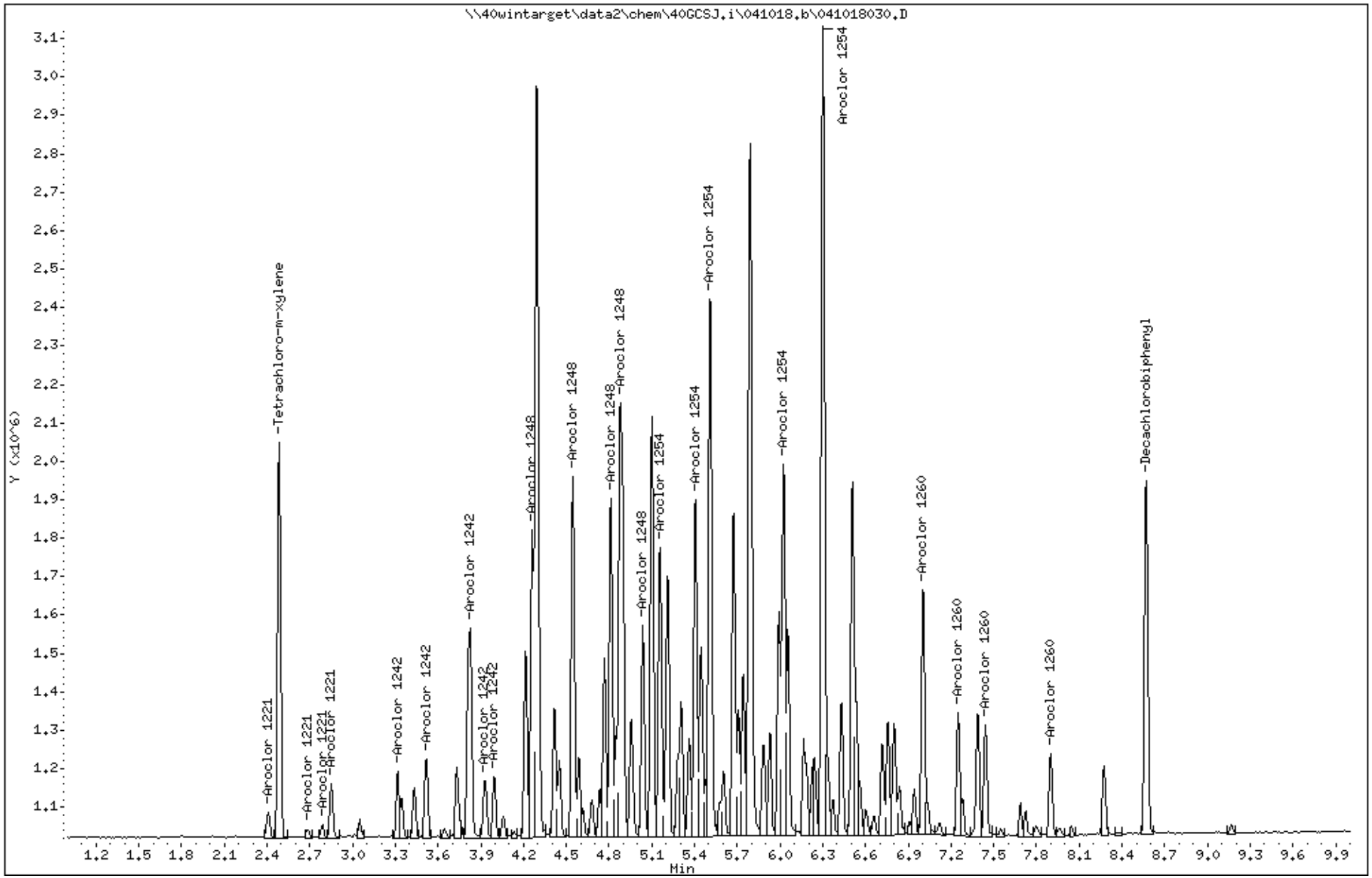
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

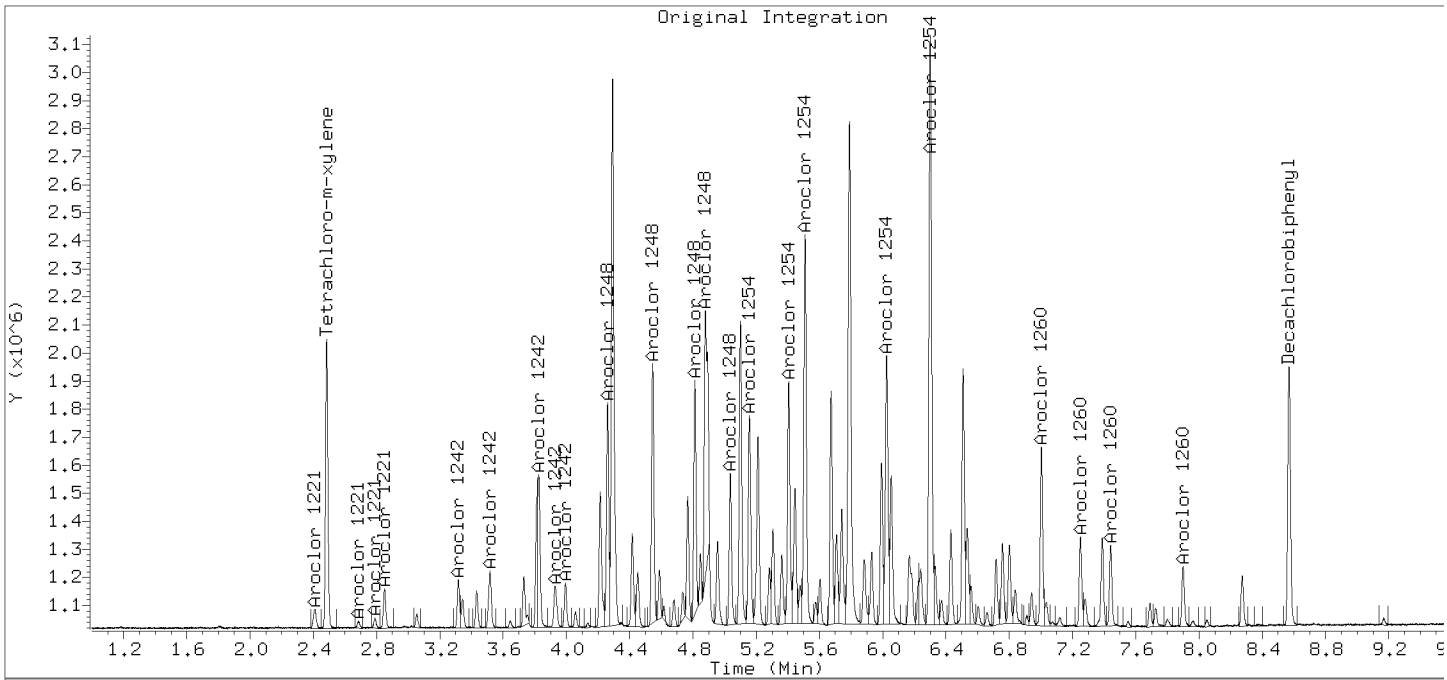
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

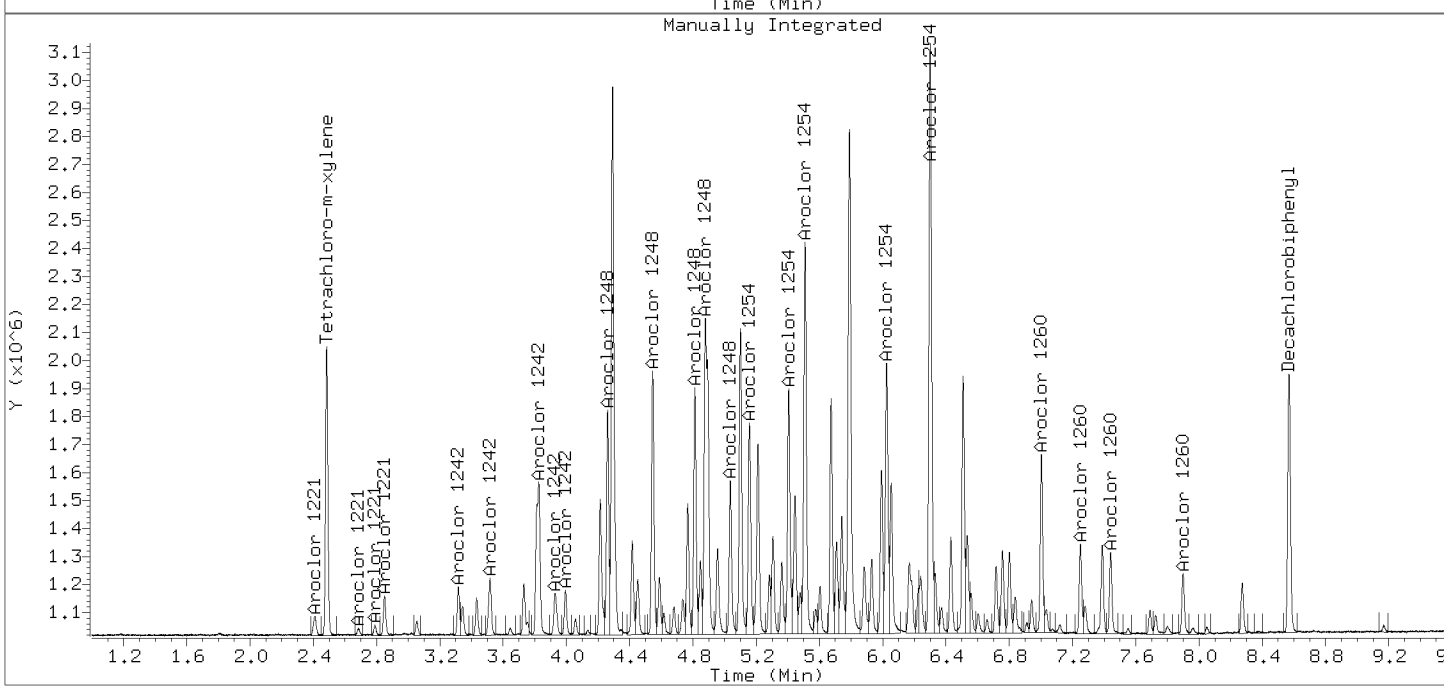
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018030.D
Date : 10-APR-2018 20:11
Client ID: ND3-170615-01-BB-02
Sample Info: 1669844 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 20:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1669844





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	182759	0	
Aroclor 1016	182759	0	
Aroclor 1016	182759	0	
Aroclor 1016	182759	0	
Aroclor 1016	182759	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	159587	0	
Aroclor 1232	159587	0	
Aroclor 1232	159587	0	
Aroclor 1232	159587	0	

Aroclor 1232	159587	0	
Aroclor 1242	182759	185686	BA
Aroclor 1242	182759	185686	BA
Aroclor 1242	182759	185686	BA
Aroclor 1242	182759	185686	BA
Aroclor 1242	182759	185686	BA
Aroclor 1248	812597	826708	BA
Aroclor 1248	812597	826708	BA
Aroclor 1248	812597	826708	BA
Aroclor 1248	812597	826708	BA
Aroclor 1248	812597	826708	BA
Aroclor 1254	839720	879024	BA
Aroclor 1254	839720	879024	BA
Aroclor 1254	839720	879024	BA
Aroclor 1254	839720	879024	BA
Aroclor 1254	839720	879024	BA
Aroclor 1260	2550793	0	BA
Aroclor 1260	2550793	0	BA
Aroclor 1260	2550793	0	BA
Aroclor 1260	2550793	0	BA
Aroclor 1260	2550793	0	BA
Tetrachloro-m-xylene	1087673	1090904	BA
Decachlorobiphenyl	1125427	1125427	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 09/29/2017 10:00

Matrix: Tissue SDG No.: 40157703

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 1669845

Date Analyzed: 04/10/2018 20:27

Lab File ID: 041018.B\041018031.D

Initial wt/vol: 10.011 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	280	J
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)	1600	
11097-69-1	PCB-1254 (Aroclor 1254)	1270	
11096-82-5	PCB-1260 (Aroclor 1260)	460	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018031.D
Lab Smp Id: 1669845 Client Smp ID: ND3-170615-01-BB-02
Inj Date : 10-APR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669845 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31 QC Sample: FIELDDUP
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	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.806	12127	8817	0.727	0.03			
2.409	89502	67987	0.760	0.22		1 Aroclor 1221	BA
2.484	1135368	1113696	0.981	2.83	$	2 Tetrachloro-m-xylene	BA
2.682	22832	14743	0.646	0.05		1 Aroclor 1221	BA
2.787	24263	20442	0.843	0.06		1 Aroclor 1221	BA
2.850	73541	64701	0.880	0.18		1 Aroclor 1221	BA
3.055	47326	43364	0.916	0.11			
3.317	70335	63089	0.897	0.17			
3.343	49379	46552	0.943	0.12			
3.433	139974	130454	0.932	0.34			
3.519	157242	142780	0.908	0.39			
3.643	32570	26218	0.805	0.08			
3.731	205486	172948	0.842	0.51			
3.813	284023	323879	1.140	0.70			
3.827	397668	374054	0.941	0.99			
3.938	69075	46064	0.667	0.17			
3.994	86994	81092	0.932	0.21			
4.058	39563	35205	0.890	0.09			
4.139	15122	10206	0.675	0.03			
4.215	525792	444450	0.845	1.31			
4.261	800873	780969	0.975	1.99		6 Aroclor 1248	BA
4.292	2431540	2007075	0.825	6.06			
4.416	279716	256423	0.917	0.69			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	169302	148530	0.877	0.42	
4.546	949117	881882	0.929	2.36	6 Aroclor 1248
4.588	240112	216398	0.901	0.59	
4.616	55750	47920	0.860	0.13	
4.679	115588	102912	0.890	0.28	
4.737	146711	132288	0.902	0.36	
4.768	512542	485786	0.948	1.27	
4.812	946532	867622	0.917	2.36	6 Aroclor 1248
4.847	190721	177219	0.929	0.47	
4.879	2090247	1098956	0.526	5.21	6 Aroclor 1248
4.956	376331	313529	0.833	0.93	
5.036	526581	470272	0.893	1.31	6 Aroclor 1248
5.101	1278667	1120745	0.876	3.19	
5.157	893612	761777	0.852	2.22	7 Aroclor 1254
5.211	856145	728603	0.851	2.13	
5.284	220939	216939	0.982	0.55	
5.307	428536	356607	0.832	1.06	
5.361	296930	256171	0.863	0.74	
5.405	1001166	877881	0.877	2.49	7 Aroclor 1254
5.445	627208	519988	0.829	1.56	
5.477	165779	152746	0.921	0.41	
5.509	1706822	1459649	0.855	4.25	7 Aroclor 1254
5.576	107107	94275	0.880	0.26	
5.604	183731	169415	0.922	0.45	
5.674	939852	874591	0.931	2.34	
5.709	390411	336747	0.863	0.97	
5.742	535207	423900	0.792	1.33	
5.790	2494512	1836189	0.736	6.22	
5.884	323563	244903	0.757	0.80	
5.930	336238	277453	0.825	0.83	
5.993	677915	609630	0.899	1.69	
6.025	1164459	973138	0.836	2.90	7 Aroclor 1254
6.055	667436	543088	0.814	1.66	
6.168	453711	261431	0.576	1.13	
6.232	154550	163269	1.056	0.38	
6.242	255037	210468	0.825	0.63	
6.301	2660879	2124416	0.798	7.13	7 Aroclor 1254
6.333	240919	218711	0.908	0.60	
6.372	117215	95510	0.815	0.29	
6.431	408693	337393	0.826	1.01	
6.509	1054758	956461	0.907	2.63	
6.534	409873	368187	0.898	1.02	
6.559	150441	143336	0.953	0.37	
6.606	87561	69295	0.791	0.21	
6.660	53321	46393	0.870	0.13	
6.717	273553	237150	0.867	0.68	
6.758	344343	310358	0.901	0.85	
6.801	341253	294919	0.864	0.85	
6.838	184497	134476	0.729	0.46	
6.910	37162	37022	0.996	0.09	
6.941	131936	121686	0.922	0.32	
7.003	723420	659658	0.912	1.80	8 Aroclor 1260
7.035	95333	86305	0.905	0.23	
7.075	15935	14746	0.925	0.03	
7.119	42830	33310	0.778	0.10	
7.250	369847	332047	0.898	0.92	8 Aroclor 1260
7.281	132408	105688	0.798	0.33	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.389	386373	327732	0.848	0.96	
7.442	347640	305455	0.879	0.86	8 Aroclor 1260
7.552	22851	20786	0.910	0.05	
7.689	95180	86258	0.906	0.23	
7.727	90440	68779	0.760	0.22	
7.801	50434	30809	0.611	0.12	
7.900	263061	220225	0.837	0.65	8 Aroclor 1260
7.961	35337	23918	0.677	0.08	
8.050	38613	27021	0.700	0.09	
8.273	212229	179198	0.844	0.52	
8.570	1165124	1007780	0.865	2.90	$ 12 Decachlorobiphenyl
9.170	27559	22909	0.831	0.06	
	40080399	33736062		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018031.D
Lab Smp Id: 1669845 Client Smp ID: ND3-170615-01-BB-02
Inj Date : 10-APR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669845 x10,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31 QC Sample: FIELDDUP
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	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.408	2.407	0.001	89501	0.16337	820	0.00- 20.00	738.03	BA
2.681	2.688	-0.007	22831	0.01650	82	0.00- 20.00	188.27	BA
2.787	2.789	-0.002	24262	0.02194	110	0.00- 20.00	200.07	BA
2.850	2.851	-0.001	73540	0.02259	110	0.00- 20.00	606.42	BA
Average of Peak Concentrations =					280			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	1135368	0.00921	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	800873	0.34182	1700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	949117	0.22869	1100	0.00- 20.00	118.51	BA
4.812	4.812	0.000	946532	0.46625	2300	0.00- 20.00	118.19	BA
4.878	4.879	-0.001	2090246	0.41494	2100	0.00- 20.00	261.00	BA
5.035	5.038	-0.003	526581	0.14674	730	0.00- 20.00	65.75	BA
Average of Peak Concentrations =					1600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.156	5.162	-0.006	893612	0.17069	850	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	1001165	0.23277	1200	0.00- 20.00	112.04	BA
5.508	5.510	-0.002	1706822	0.21978	1100	0.00- 20.00	191.00	BA
6.025	6.027	-0.002	1164459	0.23912	1200	0.00- 20.00	130.31	BA
6.300	6.299	0.001	2660878	0.40892	2000	0.00- 20.00	297.77	BA
Average of Peak Concentrations =					1300			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	723420	0.07224	360	0.00- 20.00	27.19	BA
7.250	7.251	-0.001	369846	0.07738	390	0.00- 20.00	13.90	BA
7.441	7.443	-0.002	347639	0.11925	600	0.00- 20.00	13.06	BA
7.900	7.901	-0.001	263060	0.09969	500	0.00- 20.00	9.89	BA
Average of Peak Concentrations =					460			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1165124	0.01063	53			

QC Flag Legend

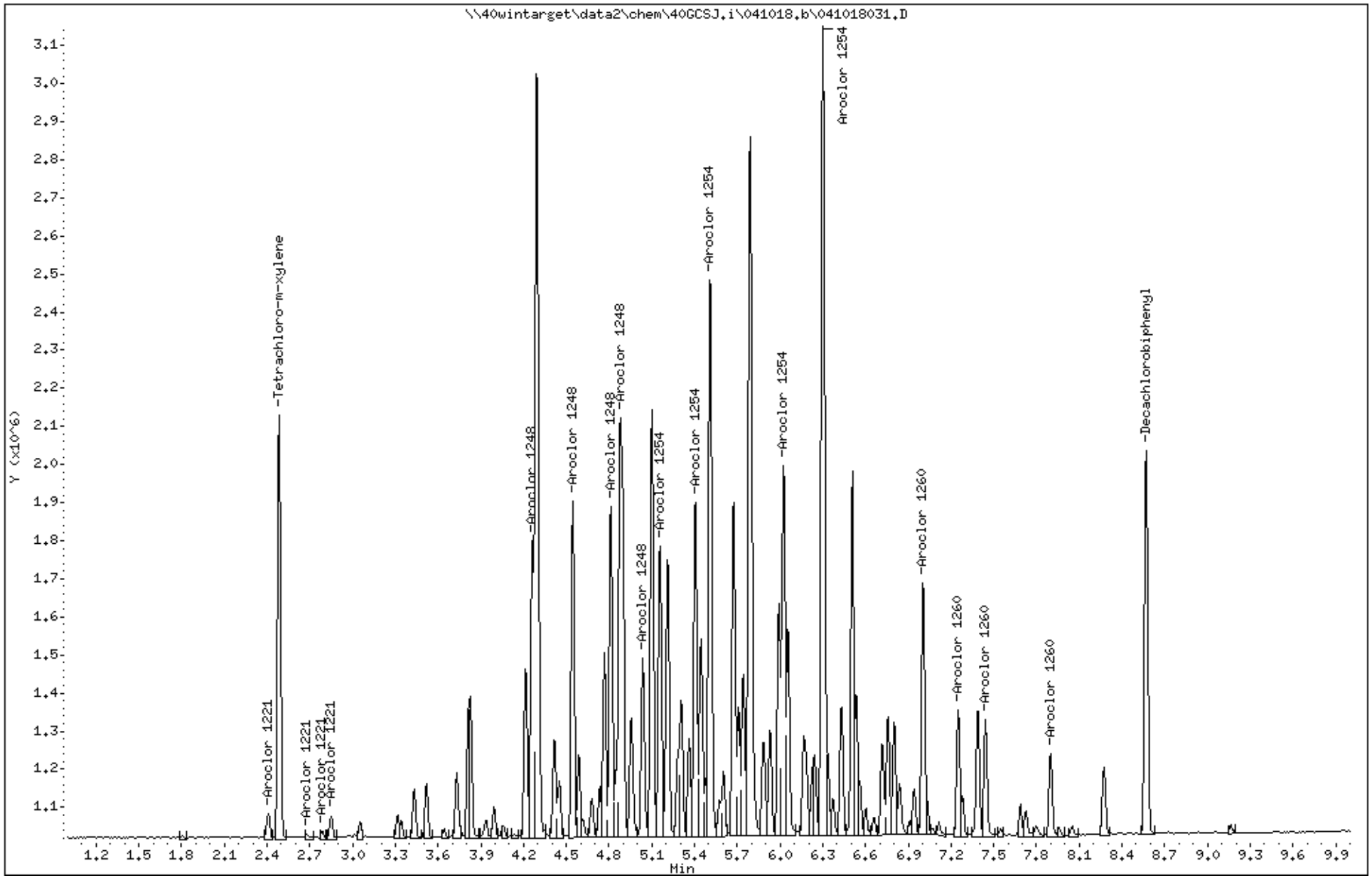
M - Compound response manually integrated.

Review Codes Legend

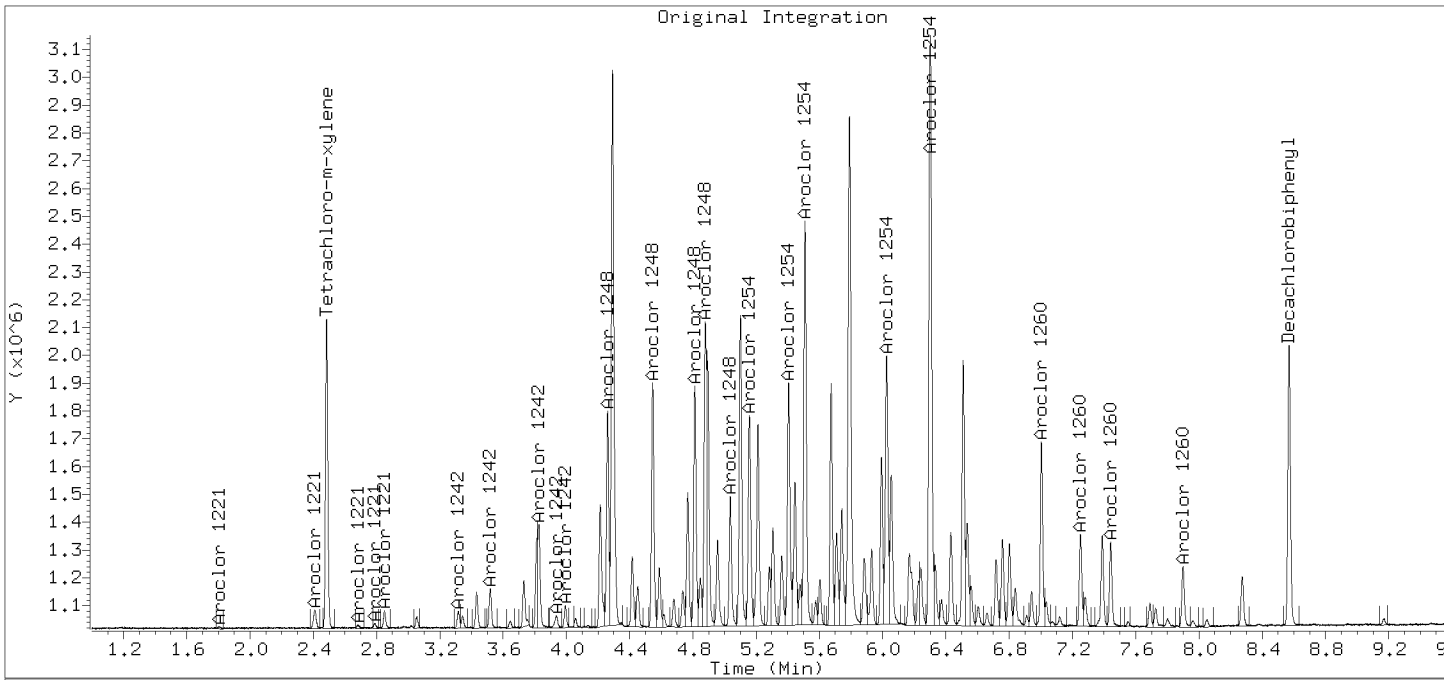
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

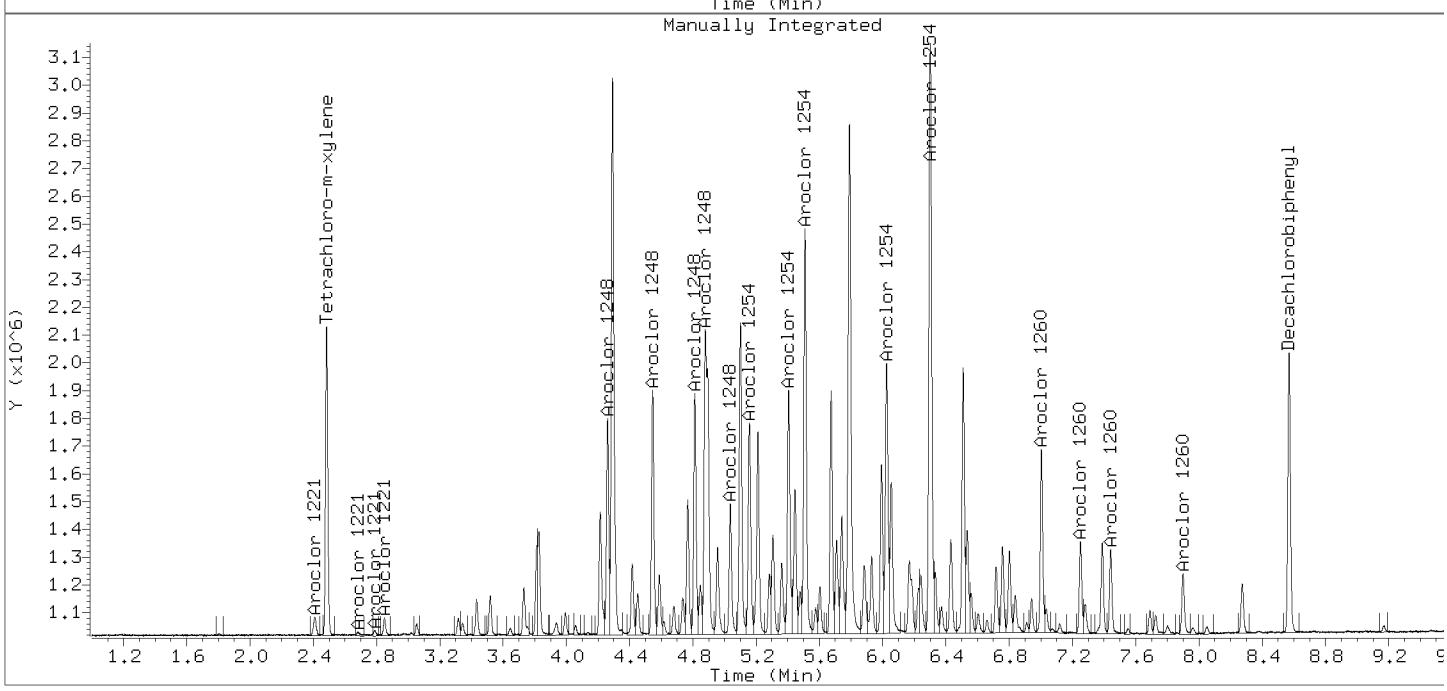
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018031.D
Date : 10-APR-2018 20:27
Client ID: ND3-170615-01-BB-02
Sample Info: 1669845 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 20:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1669845





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	67225	0	
Aroclor 1016	67225	0	
Aroclor 1016	67225	0	
Aroclor 1016	67225	0	
Aroclor 1016	67225	0	
Aroclor 1221	12065	0	BA
Aroclor 1221	12065	0	BA
Aroclor 1221	12065	0	BA
Aroclor 1221	12065	0	BA
Aroclor 1221	12065	0	BA
Aroclor 1232	66907	0	
Aroclor 1232	66907	0	
Aroclor 1232	66907	0	
Aroclor 1232	66907	0	

Aroclor 1232	66907	0	
Aroclor 1242	67225	0	
Aroclor 1242	67225	0	
Aroclor 1242	67225	0	
Aroclor 1242	67225	0	
Aroclor 1242	67225	0	
Aroclor 1248	782750	800873	BA
Aroclor 1248	782750	800873	BA
Aroclor 1248	782750	800873	BA
Aroclor 1248	782750	800873	BA
Aroclor 1248	782750	800873	BA
Aroclor 1254	878817	893612	BA
Aroclor 1254	878817	893612	BA
Aroclor 1254	878817	893612	BA
Aroclor 1254	878817	893612	BA
Aroclor 1254	878817	893612	BA
Aroclor 1260	2651173	0	BA
Aroclor 1260	2651173	0	BA
Aroclor 1260	2651173	0	BA
Aroclor 1260	2651173	0	BA
Aroclor 1260	2651173	0	BA
Tetrachloro-m-xylene	1127444	1135368	BA
Decachlorobiphenyl	1165124	1165124	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157703

Date Extracted: 04/12/2018 07:14

Lab Sample ID: 1672269

Date Analyzed: 04/13/2018 15:52

Lab File ID: 041318.B\041318009.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\041318.b\041318009.D
Lab Smp Id: 1672269 Client Smp ID: MB
Inj Date : 13-APR-2018 15:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672269,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	18148	13389	0.738	0.08		
1.692	9763	9946	1.019	0.04		
2.015	10609	6945	0.655	0.05		
2.203	30507	18311	0.600	0.14		
2.486	9861612	8979180	0.911	47.16	$ 2 Tetrachloro-m-xylene	
2.788	18127	14372	0.793	0.08		
7.121	26818	18734	0.699	0.12		
7.694	14889	10943	0.735	0.07		
7.726	59581	49301	0.827	0.28		
7.799	52728	40031	0.759	0.25		
8.274	104455	84113	0.805	0.49		
8.382	14721	12845	0.873	0.07		
8.571	10686677	8977331	0.840	51.17	$ 12 Decachlorobiphenyl	
	20908637	18235441		100.000		

Total unknown % area = 1.7

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318009.D
Lab Smp Id: 1672269 Client Smp ID: MB
Inj Date : 13-APR-2018 15:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672269,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.486	2.484	0.002	9861612	0.07998	40			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

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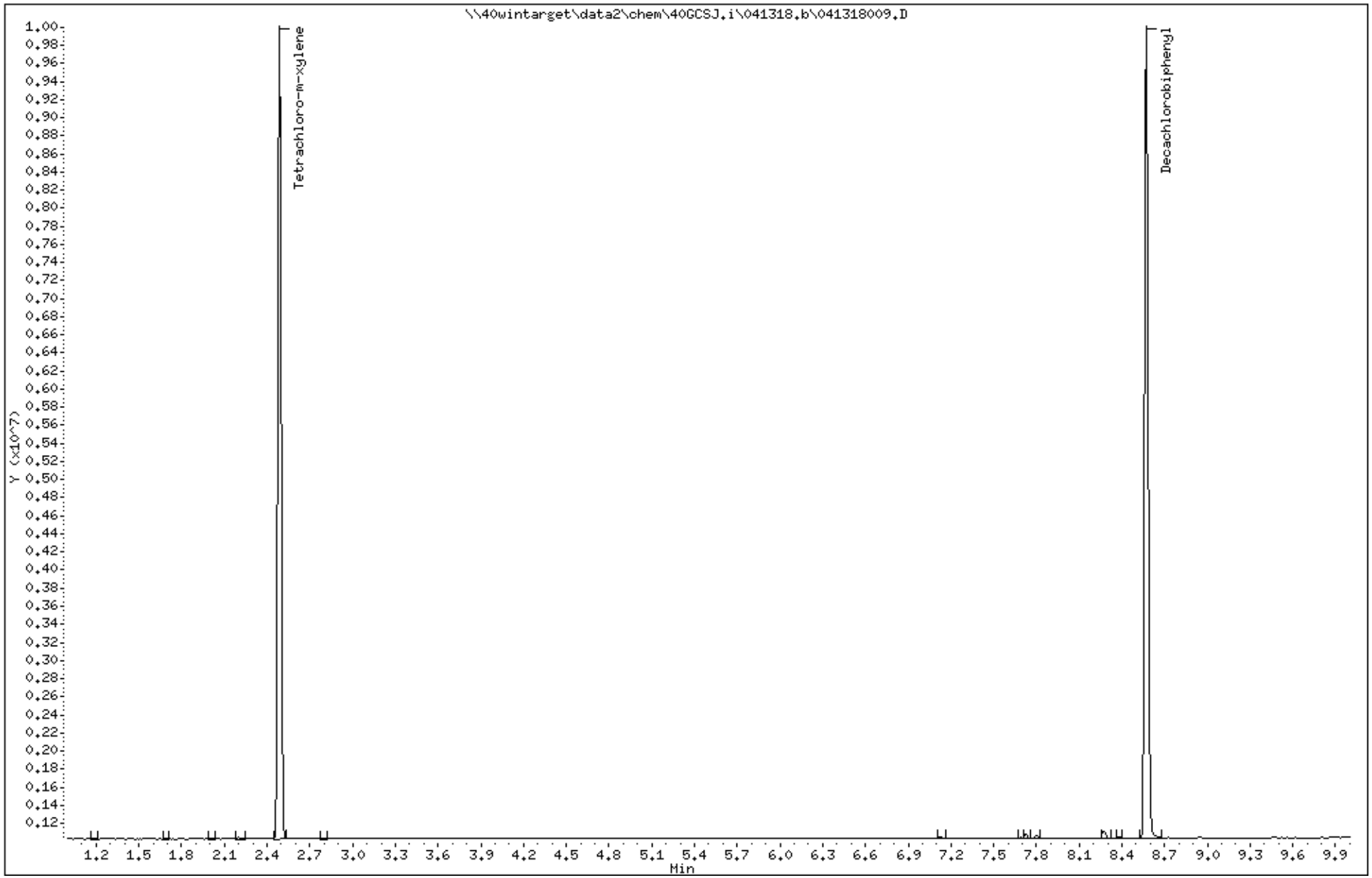
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	10686676	0.09754		49		

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318009.D
Date : 13-APR-2018 15:52
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1672269,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 15:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1672269

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	9861612	9861612	
Decachlorobiphenyl	10686676	10686676	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157703

Date Extracted: 04/12/2018 07:14

Lab Sample ID: 1672270

Date Analyzed: 04/13/2018 16:08

Lab File ID: 041318.B\041318010.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	236	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318010.D
Lab Smp Id: 1672270 Client Smp ID: MBLCS
Inj Date : 13-APR-2018 16:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672270,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.423	10572	8000	0.757	0.02		
1.540	9966	9758	0.979	0.02		
1.686	11908	10870	0.913	0.02		
1.805	18755	13748	0.733	0.04		
2.198	43148	28173	0.653	0.09		
2.407	113099	85145	0.753	0.24		
2.485	9892402	9340343	0.944	21.70	$ 2 Tetrachloro-m-xylene	
2.687	175725	138701	0.789	0.38		
2.790	209547	190836	0.911	0.45		
2.851	934439	834618	0.893	2.04		
3.056	121289	105765	0.872	0.26		
3.277	24040	17955	0.747	0.05		
3.318	1191792	1098198	0.921	2.61	3 Aroclor 1242	BA
3.344	677980	629741	0.929	1.48		
3.435	197898	166319	0.840	0.43		
3.514	1175225	841173	0.716	2.57	3 Aroclor 1242	BA
3.644	23403	15574	0.665	0.05		
3.694	37080	33581	0.906	0.08		
3.732	305033	298511	0.979	0.66		
3.756	206830	192390	0.930	0.45		
3.827	3402898	1957359	0.575	7.46	3 Aroclor 1242	BA
3.929	1461018	1206628	0.826	3.20	3 Aroclor 1242	BA
3.995	961730	905910	0.942	2.10	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	267825	236523	0.883	0.58	
4.135	109651	94636	0.863	0.24	
4.215	792449	749446	0.946	1.73	
4.262	751140	700792	0.933	1.64	
4.292	306566	317605	1.036	0.67	
4.310	386990	341481	0.882	0.84	
4.373	30166	21278	0.705	0.06	
4.417	1041700	972308	0.933	2.28	
4.452	821986	596826	0.726	1.80	
4.546	1342247	1220990	0.910	2.94	
4.618	312236	277252	0.888	0.68	
4.682	24208	18586	0.768	0.05	
4.728	69194	55693	0.805	0.15	
4.767	74393	67787	0.911	0.16	
4.813	610680	575934	0.943	1.33	
4.848	1083171	1021987	0.944	2.37	
4.879	1396066	1009232	0.723	3.06	
4.958	159206	122508	0.769	0.34	
5.037	1147970	1041191	0.907	2.51	
5.099	239155	181024	0.757	0.52	
5.162	271186	241335	0.890	0.59	
5.213	205206	168834	0.823	0.45	
5.281	23818	17424	0.732	0.05	
5.307	50164	39268	0.783	0.11	
5.363	174044	144551	0.831	0.38	
5.406	285033	240095	0.842	0.62	
5.446	181896	153980	0.847	0.39	
5.510	468401	351826	0.751	1.02	
5.604	143894	120147	0.835	0.31	
5.675	19968	14556	0.729	0.04	
5.716	24370	22425	0.920	0.05	
5.742	45006	34541	0.767	0.09	
5.792	305613	238010	0.779	0.67	
5.888	53324	28825	0.541	0.11	
6.024	249461	207541	0.832	0.54	
6.055	62758	42049	0.670	0.13	
6.169	25241	17955	0.711	0.05	
6.239	13055	11150	0.854	0.02	
6.300	64649	51976	0.804	0.14	
6.331	19369	13044	0.673	0.04	
6.509	13627	10795	0.792	0.02	
6.534	25749	17920	0.696	0.05	
6.718	12248	9737	0.795	0.02	
6.802	10986	11310	1.030	0.02	
6.867	9525	8248	0.866	0.02	
6.942	9791	6988	0.714	0.02	
7.005	21450	15488	0.722	0.04	
7.123	16463	15645	0.950	0.03	
7.389	10237	8324	0.813	0.02	
7.694	16255	13518	0.832	0.03	
7.726	57942	47171	0.814	0.12	
7.801	48258	39780	0.824	0.10	
8.275	103753	87609	0.844	0.22	
8.375	16971	11243	0.662	0.03	
8.571	10354003	8902285	0.860	23.11	$ 12 Decachlorobiphenyl
	45586488	39117968		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318010.D
Lab Smp Id: 1672270 Client Smp ID: MBLCS
Inj Date : 13-APR-2018 16:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672270,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	9892401	0.08023	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1191791	0.47047	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1175224	0.46635	230	0.00- 20.00	98.61	BA
3.826	3.827	-0.001	3402897	0.47817	240	0.00- 20.00	285.53	BA
3.929	3.929	0.000	1461017	0.48036	240	0.00- 20.00	122.59	BA
3.994	3.995	-0.001	961729	0.46965	230	0.00- 20.00	80.70	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

8.570	8.571	-0.001	10354003	0.09451	47	

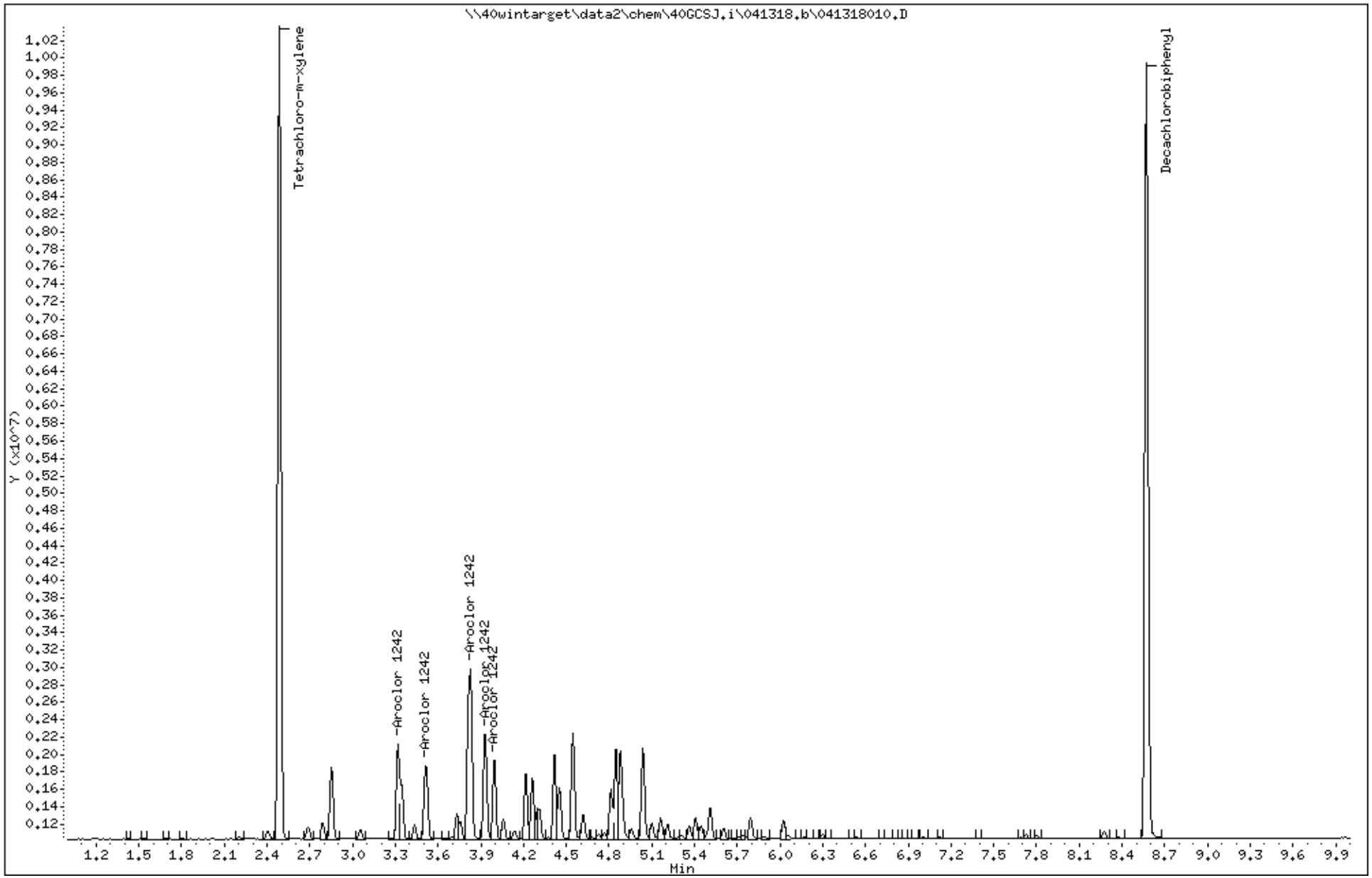
QC Flag Legend

M - Compound response manually integrated.

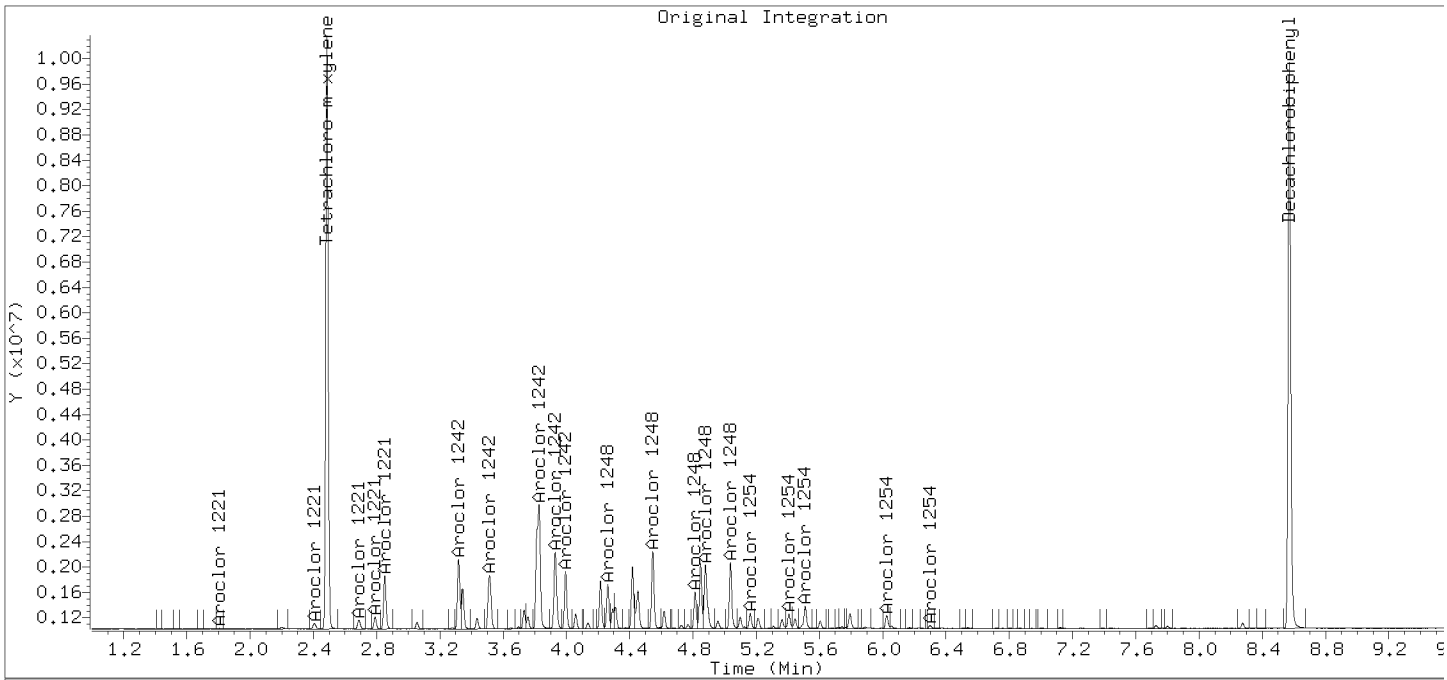
Review Codes Legend

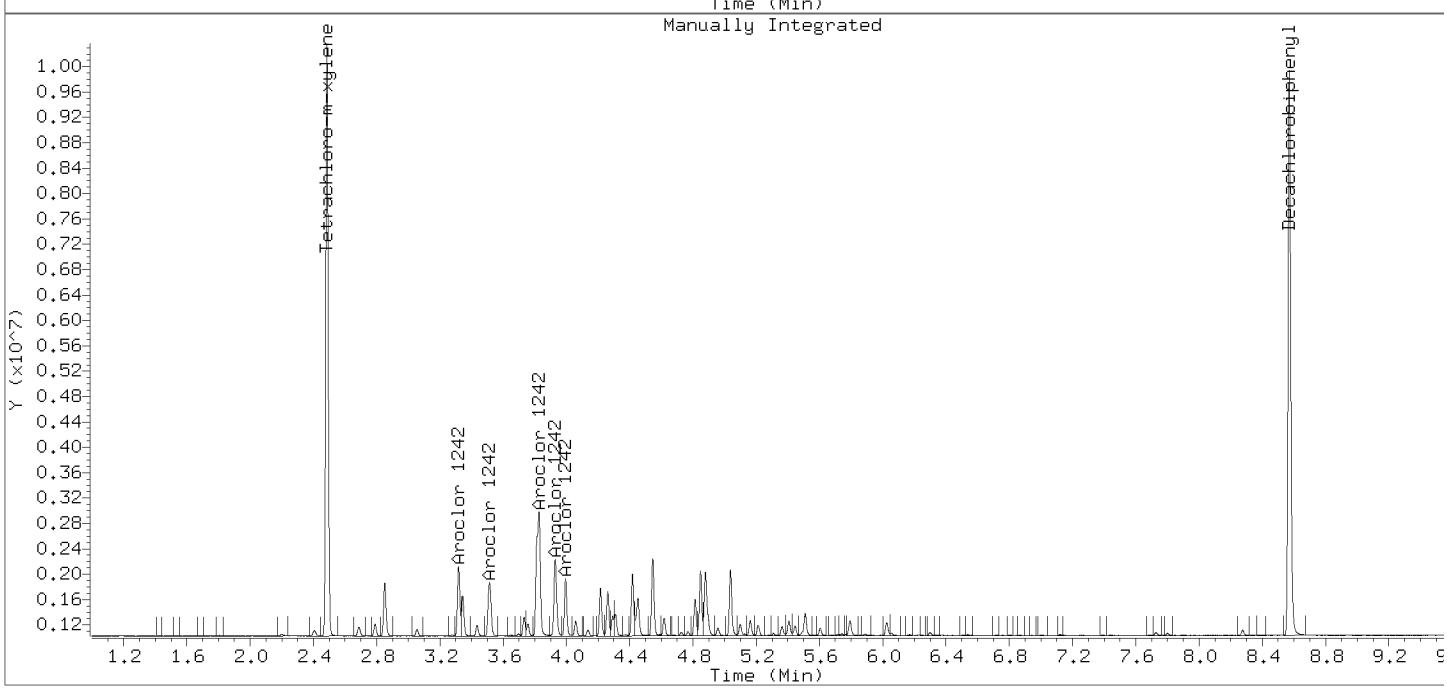
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318010.D
Date : 13-APR-2018 16:08
Client ID: MBLCS
Instrument: 40GCSJ.i
Sample Info: 1672270,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 16:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1672270





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1232	923968	0	
Aroclor 1232	923968	0	
Aroclor 1232	923968	0	
Aroclor 1232	923968	0	

Aroclor 1232	923968	0	
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9892401	9892401	
Decachlorobiphenyl	10354003	10354003	

==========

Prep Log Report

Batch Information: OEXT 285341 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/06/2018 07:14:24:461
Spiked By	AMC	Spiked By Date/Time	04/06/2018 07:14:25:300	Witnessed By	ETB	Witnessed By Date/Time	04/06/2018 07:14:26:076
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193046	Hexane	192551	Sodium Sulfate	192624	Florisil	186910
3620B Date/Initials	4/9/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/9/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/13/2018 11:26	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	**1669842**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1669843**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157703002**	10.0121	5	3		189973 (.25)	
8082A TNYP	PS	**40157703003**	9.997	5	3		189973 (.25)	
8082A TNYP	PS	**40157703004**	9.976	5	3		189973 (.25)	
8082A TNYP	PS	**40157703006**	9.9809	5	3		189973 (.25)	
8082A TNYP	PS	**40157703007**	9.9813	5	3		189973 (.25)	
8082A TNYP	PS	**40157703008**	9.9893	5	3		189973 (.25)	
8082A TNYP	PS	**40157703009**	10.025	5	3		189973 (.25)	
8082A TNYP	PS	**40157703010**	10.0253	5	3		189973 (.25)	
8082A TNYP	PS	**40157703011**	9.9851	5	3		189973 (.25)	
8082A TNYP	PS	**40157703012**	9.9921	5	3		189973 (.25)	
8082A TNYP	PS	**40157703013**	10.0028	5	3		189973 (.25)	
8082A TNYP	PS	**40157703014**	10.0241	5	3		189973 (.25)	
8082A TNYP	PS	**40157703015**	9.9707	5	3		189973 (.25)	
8082A TNYP	PS	**40157703016**	10.0176	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	**40157703017**	9.9676	5	3		189973 (.25)	
8082A TNYP	RQS	**40157703018**	9.9767	5	3		189973 (.25)	
8082A TNYP	MS	**1669844**	10.0207	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1669845**	10.011	5	3		189973 (.25)	
8082A TNYP	PS	**40157703019**	9.9989	5	3		189973 (.25)	
8082A TNYP	PS	**40157830001**	9.9827	5	3		189973 (.25)	
8082A TNYP	PS	**40157830002**	9.9911	5	3		189973 (.25)	
8082A TNYP	PS	**40157830004**	10.008	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

Prep Log Report

Batch Information: OEXT 285844 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/12/2018 07:14:37:812
Spiked By	AMC	Spiked By Date/Time	04/12/2018 07:14:38:635	Witnessed By	ETB	Witnessed By Date/Time	04/12/2018 07:14:39:332
Instrument	40BAL2	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193584	Hexane	192551	Sodium Sulfate	193164	Florisil	186910
3620B Date/Initials	4/13/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/13/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/19/2018 09:50	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1672269**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1672270**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157492006**	9.9656	5	3		193230 (.25)	
8082A TNYP	PS	**40157492007**	9.9904	5	3		193230 (.25)	
8082A TNYP	PS	**40157492008**	10.0007	5	3		193230 (.25)	
8082A TNYP	PS	**40157492009**	10.0355	5	3		193230 (.25)	
8082A TNYP	PS	**40157492010**	9.9951	5	3		193230 (.25)	
8082A TNYP	PS	**40157492011**	9.9652	5	3		193230 (.25)	
8082A TNYP	PS	**40157492016**	9.9995	5	3		193230 (.25)	
8082A TNYP	DUP	**1672271**	9.9727	5	3		193230 (.25)	
8082A TNYP	PS	**40157698008**	9.9712	5	3		193230 (.25)	
8082A TNYP	PS	**40157698009**	9.9904	5	3		193230 (.25)	
8082A TNYP	PS	**40157698010**	9.9685	5	3		193230 (.25)	
8082A TNYP	RQS	**40157698011**	10.0296	5	3		193230 (.25)	
8082A TNYP	MS	**1672272**	10.0077	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1672273**	10.0262	5	3		193230 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157703001**	10.0274	5	3		193230 (.25)	
8082A TNYP	PS	**40157703005**	9.9805	5	3		193230 (.25)	
8082A TNYP	PS	**40157830013**	9.9973	5	3		193230 (.25)	

Standard Notes:

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

```
      Sequence Name: C:\msdchem\1\sequence\040918.s
            Comment:
           Operator:
          Data Path: C:\MSDCHEM\1\DATA\040918\
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  1670608
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1670609
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1670610
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  1670611
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40167106-001
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40167112-001
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40167107-001
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  HEXANE
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  1670832
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  1670833
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  1670834
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  1670835
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40166483-002
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40166483-004P
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40166483-010
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40166483-019
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40166483-021
     Datafile           --------

   Last Modified: Mon Apr 09 20:22:51 2018                Page:  1
```

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Read and Understood By

Signed 4/11/18 Date Signed 4-11-18 Date

```
      Method                SCREEN2014
20) Sample          20      40166779-002
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21      40166779-010
      Datafile              --------
      Method                SCREEN2014
22) Sample          22      40166779-016
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23      40166485-003
      Datafile              --------
      Method                SCREEN2014
24) Sample          24      40166548-011
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25      40166630-025
      Datafile              --------
      Method                SCREEN2014
26) Sample          26      40166659-002
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27      40166659-004
      Datafile              --------
      Method                SCREEN2014
28) Sample          28      40167165-003
      Datafile              --------
      Method                SCREEN2014
29) RearSamp        29      40167165-004
      Datafile              --------
      Method                SCREEN2014
30) Sample          30      HEXANE
      Datafile              --------
      Method                SCREEN2014
31) RearSamp        31      1669842MB
      Datafile              --------
      Method                SCREEN2014
32) Sample          32      1669843LCS
      Datafile              --------
      Method                SCREEN2014
33) RearSamp        33      40157703-002 —
      Datafile              --------
      Method                SCREEN2014
34) Sample          34      40157703-003 x10
      Datafile              --------
      Method                SCREEN2014
35) RearSamp        35      40157703-004 x3
      Datafile              --------
      Method                SCREEN2014
36) Sample          36      40157703-006 —
      Datafile              --------
      Method                SCREEN2014
37) RearSamp        37      40157703-007 —
      Datafile              --------
      Method                SCREEN2014
38) Sample          38      40157703-008 x2
      Datafile              --------
      Method                SCREEN2014
39) RearSamp        39      40157703-009 x5
      Datafile              --------
      Method                SCREEN2014
40) Sample          40      40157703-010 x5
      Datafile              --------
      Method                SCREEN2014
41) RearSamp        41      40157703-011 x2
      Datafile              --------
      Method                SCREEN2014
42) Sample          42      40157703-012 x3
      Datafile              --------
      Method                SCREEN2014
43) RearSamp        43      40157703-013 x3
      Datafile              --------
```

GE BIOTA

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Read and Understood By

Bryan Meagher — Signed — 4/11/18 — Date

Jim O'Connor — Signed — 4-11-18 — Date

Sequence Name: C:\msdchem\1\sequence\040918.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157703-014	x2	
	Datafile		--------		
	Method		SCREEN2014		
45)	RearSamp	45	40157703-015	x15	
	Datafile		--------		
	Method		SCREEN2014		
46)	Sample	46	40157703-016	x5	
	Datafile		--------		
	Method		SCREEN2014		
47)	RearSamp	47	40157703-017	—	
	Datafile		--------		
	Method		SCREEN2014		
48)	Sample	48	40157703-018P	~~x5~~ x10 BLM 4/10/18	
	Datafile		--------		
	Method		SCREEN2014		
49)	RearSamp	49	1669844MS	x10	
	Datafile		--------		
	Method		SCREEN2014		
50)	Sample	50	1669845DUP	x10	
	Datafile		--------		
	Method		SCREEN2014		
51)	RearSamp	51	40157703-019	x5	
	Datafile		--------		
	Method		SCREEN2014		
52)	Sample	52	40157830-001	x2	
	Datafile		--------		
	Method		SCREEN2014		
53)	RearSamp	53	40157830-002	—	
	Datafile		--------		
	Method		SCREEN2014		
54)	Sample	54	40157830-004	x4	
	Datafile		--------		
	Method		SCREEN2014		

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BLM 4/11/18

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Read and Understood By

Signed 4/11/18 Date Signed 4-11-18 Date

PROJECT 40GCSI Screener 04/13/18

Notebook No. 4418

Continued from Page —

```
Sequence Name: C:\msdchem\1\sequence\041318.s
      Comment:
     Operator:
    Data Path: C:\MSDCHEM\1\DATA\041318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
```

Line		Sample Name/Misc Info
1) RearSamp	1	HEXANE
Datafile		--------
Method		SCREEN2014
2) Sample	2	HEXANE
Datafile		--------
Method		SCREEN2014
3) RearSamp	3	1672269MB
Datafile		--------
Method		SCREEN2014
4) Sample	4	1672270LCS
Datafile		--------
Method		SCREEN2014
5) RearSamp	5	40157492-006 —
Datafile		--------
Method		SCREEN2014
6) Sample	6	40157492-007 x 3
Datafile		--------
Method		SCREEN2014
7) RearSamp	7	40157492-008 —
Datafile		--------
Method		SCREEN2014
8) Sample	8	40157492-009 x 2
Datafile		--------
Method		SCREEN2014
9) RearSamp	9	40157492-010 x 5
Datafile		--------
Method		SCREEN2014
10) Sample	10	40157492-011 x 5
Datafile		--------
Method		SCREEN2014
11) RearSamp	11	40157492-016 —
Datafile		--------
Method		SCREEN2014
12) Sample	12	1672271DUP —
Datafile		--------
Method		SCREEN2014
13) RearSamp	13	40157698-008 x 2
Datafile		--------
Method		SCREEN2014
14) Sample	14	40157698-009 x 2
Datafile		--------
Method		SCREEN2014
15) RearSamp	15	40157698-010 x 15
Datafile		--------
Method		SCREEN2014
16) Sample	16	40157698-011 ~~x 2~~ — BLM 4/13/18
Datafile		--------
Method		SCREEN2014
17) RearSamp	17	1672272MS —
Datafile		--------
Method		SCREEN2014
18) Sample	18	1672273DUP —
Datafile		--------
Method		SCREEN2014
19) RearSamp	19	40157703-001 x 2
Datafile		--------

GE BIOTA

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Read and Understood By

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

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

```
     Method              SCREEN2014
20)  Sample        20    40157703-005
     Datafile            --------
     Method              SCREEN2014
21)  RearSamp      21    40157830-013 ×2
     Datafile            --------
     Method              SCREEN2014
22)  Sample        22    HEXANE
     Datafile            --------
     Method              SCREEN2014
```

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BLM 4/18/18

Continued on Page —

Read and Understood By

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

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

```
Sequence Name: C:\msdchem\1\sequence\030618.s
      Comment:
     Operator: BLM
    Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
---------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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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

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

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

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

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

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Beyza Meyl — Signed — 3/7/18 Date

Signed — 3/7/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\041018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          041018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041018003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 F
     Datafile          041018004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041018005
     Method            GEBIOTA2017
 6) Sample          6  40157935001 x2,,17636,BIOTA
     Datafile          041018006
     Method            GEBIOTA2017
 7) Sample          7  40157935006 x2,,17636,BIOTA
     Datafile          041018007
     Method            GEBIOTA2017
 8) Sample          8  1669842,,17642,BIOTA
     Datafile          041018008
     Method            GEBIOTA2017
 9) Sample          9  1669843,,17642,BIOTA
     Datafile          041018009
     Method            GEBIOTA2017
10) Sample         10  40157703002,,17642,BIOTA
     Datafile          041018010
     Method            GEBIOTA2017
11) Sample         11  40157703003 x10,,17642,BIOTA
     Datafile          041018011
     Method            GEBIOTA2017
12) Sample         12  40157703004 x3,,17642,BIOTA
     Datafile          041018012
     Method            GEBIOTA2017
13) Sample         13  40157703006,,17642,BIOTA
     Datafile          041018013
     Method            GEBIOTA2017
14) Sample         14  40157703007,,17642,BIOTA
     Datafile          041018014
     Method            GEBIOTA2017
15) Sample         15  40157703008 x2,,17642,BIOTA
     Datafile          041018015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041018016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041018017
     Method            GEBIOTA2017
18) Sample         18  40157703009 x5,,17642,BIOTA
     Datafile          041018018
     Method            GEBIOTA2017
19) Sample         19  40157703010 x5,,17642,BIOTA
     Datafile          041018019

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```
      Method                GEBIOTA2017
20)   Sample        20      40157703011 x2,,17642,BIOTA
      Datafile              041018020
      Method                GEBIOTA2017
21)   Sample        21      40157703012 x3,,17642,BIOTA RS
      Datafile              041018021
      Method                GEBIOTA2017
22)   Sample        22      40157703013 x3,,17642,BIOTA
      Datafile              041018022
      Method                GEBIOTA2017
23)   Sample        23      40157703014 x2,,17642,BIOTA
      Datafile              041018023
      Method                GEBIOTA2017
24)   Sample        24      40157703015 x15,,17642,BIOTA
      Datafile              041018024
      Method                GEBIOTA2017
25)   Sample        25      40157703016 x5,,17642,BIOTA
      Datafile              041018025
      Method                GEBIOTA2017
26)   Sample        26      40157703017,,17642,BIOTA
      Datafile              041018026
      Method                GEBIOTA2017
27)   Sample        27      40157703018 x10,,17642,BIOTA
      Datafile              041018027
      Method                GEBIOTA2017
28)   Sample        28      1232-CCV,185539:1,17498,AR123 ok
      Datafile              041018028
      Method                GEBIOTA2017
29)   Sample        29      1232-CCV,185539:1,17498,AR123 ok
      Datafile              041018029
      Method                GEBIOTA2017
30)   Sample        30      1669844 x10,,17642,BIOTA
      Datafile              041018030
      Method                GEBIOTA2017
31)   Sample        31      1669845 x10,,17642,BIOTA
      Datafile              041018031
      Method                GEBIOTA2017
32)   Sample        32      40157703019 x5,,17642,BIOTA
      Datafile              041018032
      Method                GEBIOTA2017
33)   Sample        33      40157830001 x2,,17642,BIOTA
      Datafile              041018033
      Method                GEBIOTA2017
34)   Sample        34      40157830002,,17642,BIOTA
      Datafile              041018034
      Method                GEBIOTA2017
35)   Sample        35      40157830004 x4,,17642,BIOTA
      Datafile              041018035
      Method                GEBIOTA2017
36)   Sample        36      1670714,,17645,BIOTA
      Datafile              041018036
      Method                GEBIOTA2017
37)   Sample        37      1670715,,17645,BIOTA
      Datafile              041018037
      Method                GEBIOTA2017
38)   Sample        38      40157487001 x2,,17645,BIOTA
      Datafile              041018038
      Method                GEBIOTA2017
39)   Sample        39      40157487002 x2,,17645,BIOTA
      Datafile              041018039
      Method                GEBIOTA2017
40)   Sample        40      1242-CCV,185544:1,17498,AR124 ok
      Datafile              041018040
      Method                GEBIOTA2017
41)   Sample        41      1242-CCV,185544:1,17498,AR124 ok
      Datafile              041018041
      Method                GEBIOTA2017
42)   Sample        42      40157487003 x2,,17645,BIOTA
      Datafile              041018042
      Method                GEBIOTA2017
43)   Sample        43      40157487004,,17645,BIOTA
      Datafile              041018043
```

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Signed: [signature] Date: 4/11/18

Signed: Jim O'Conn Date: 4-11-18

Sequence Name: C:\msdchem\1\sequence\041018.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157487005	x2,,17645	BIOTA
	Datafile		041018044		
	Method			GEBIOTA2017	
45)	Sample	45	40157487006	,,17645	BIOTA
	Datafile		041018045		
	Method			GEBIOTA2017	
46)	Sample	46	40157487007	x2,,17645	BIOTA
	Datafile		041018046		
	Method			GEBIOTA2017	
47)	Sample	47	40157487008	x4,,17645	BIOTA
	Datafile		041018047		
	Method			GEBIOTA2017	
48)	Sample	48	40157487009	x4,,17645	BIOTA
	Datafile		041018048		
	Method			GEBIOTA2017	
49)	Sample	49	40157487010	x2,,17645	BIOTA
	Datafile		041018049		
	Method			GEBIOTA2017	
50)	Sample	50	40157492001	x3,,17645	BIOTA
	Datafile		041018050		
	Method			GEBIOTA2017	
51)	Sample	51	40157492002	x2,,17645	BIOTA
	Datafile		041018051		
	Method			GEBIOTA2017	
52)	Sample	52	1248-CCV,185549:1	17498	AR124 ok
	Datafile		041018052		
	Method			GEBIOTA2017	
53)	Sample	53	1248-CCV,185549:1	17498	AR124 ok
	Datafile		041018053		
	Method			GEBIOTA2017	
54)	Sample	54	40157492003	,,17645	BIOTA
	Datafile		041018054		
	Method			GEBIOTA2017	
55)	Sample	55	40157492004	x2,,17645	BIOTA
	Datafile		041018055		
	Method			GEBIOTA2017	
56)	Sample	56	40157825011	,,17645	BIOTA
	Datafile		041018056		
	Method			GEBIOTA2017	
57)	Sample	57	40157832001	x2,,17645	BIOTA
	Datafile		041018057		
	Method			GEBIOTA2017	
58)	Sample	58	40157832002	,,17645	BIOTA
	Datafile		041018058		
	Method			GEBIOTA2017	
59)	Sample	59	40157832003	x2,,17645	BIOTA
	Datafile		041018059		
	Method			GEBIOTA2017	
60)	Sample	60	1670716	x2,,17645	BIOTA
	Datafile		041018060		
	Method			GEBIOTA2017	
61)	Sample	61	1670717	x2,,17645	BIOTA
	Datafile		041018061		
	Method			GEBIOTA2017	
62)	Sample	62	40157832004	,,17645	BIOTA
	Datafile		041018062		
	Method			GEBIOTA2017	
63)	Sample	63	40157832005	,,17645	BIOTA
	Datafile		041018063		
	Method			GEBIOTA2017	
64)	Sample	64	1254-CCV,185554:1	17498	AR125 ok
	Datafile		041018064		
	Method			GEBIOTA2017	
65)	Sample	65	1254-CCV,185554:1	17498	AR125 ok
	Datafile		041018065		
	Method			GEBIOTA2017	

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GCSV Batch 17645 HBN: 285591 Screened: 40GCSI 4/10/18

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Read and Understood By

Bryan Meyl 4/11/18
Signed Date

Jim O'Connor 4-11-18
Signed Date

```
    Sequence Name: C:\msdchem\1\sequence\041118.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041118\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          041118001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041118002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041118003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118005
     Method            GEBIOTA2017
 6) Sample          6  40157703012 x10,,17642,BIOTA
     Datafile          041118006
     Method            GEBIOTA2017
 7) Sample          7  1671063,,17653,BIOTA
     Datafile          041118007
     Method            GEBIOTA2017
 8) Sample          8  1671064,,17653,BIOTA
     Datafile          041118008
     Method            GEBIOTA2017
 9) Sample          9  40157488006 x5,,17653,BIOTA
     Datafile          041118009
     Method            GEBIOTA2017
10) Sample         10  1671101 x5,,17653,BIOTA
     Datafile          041118010
     Method            GEBIOTA2017
11) Sample         11  1671100 x5,,17653,BIOTA
     Datafile          041118011
     Method            GEBIOTA2017
12) Sample         12  40157489006 x5,,17653,BIOTA
     Datafile          041118012
     Method            GEBIOTA2017
13) Sample         13  40157698006 x10,,17653,BIOTA
     Datafile          041118013
     Method            GEBIOTA2017
14) Sample         14  40157698007 x3,,17653,BIOTA
     Datafile          041118014
     Method            GEBIOTA2017
15) Sample         15  40157698012,,17653,BIOTA
     Datafile          041118015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118017
     Method            GEBIOTA2017
18) Sample         18  40157698013 x2,,17653,BIOTA
     Datafile          041118018
     Method            GEBIOTA2017
19) Sample         19  40157698014 x2,,17653,BIOTA
     Datafile          041118019

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Signed 4/12/18 Date

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```
      Method          GEBIOTA2017
20) Sample      20    40157698015,,17653,BIOTA
      Datafile        041118020
      Method          GEBIOTA2017
21) Sample      21    40157698016 x3,,17653,BIOTA
      Datafile        041118021
      Method          GEBIOTA2017
22) Sample      22    40157830005 x2,,17653,BIOTA
      Datafile        041118022
      Method          GEBIOTA2017
23) Sample      23    40157830006,,17653,BIOTA
      Datafile        041118023
      Method          GEBIOTA2017
24) Sample      24    40157830007 x4,,17653,BIOTA
      Datafile        041118024
      Method          GEBIOTA2017
25) Sample      25    40157830014 x5,,17653,BIOTA
      Datafile        041118025
      Method          GEBIOTA2017
26) Sample      26    40157830015 x4,,17653,BIOTA
      Datafile        041118026
      Method          GEBIOTA2017
27) Sample      27    1232-CCV,185539:1,17498,AR123 OL
      Datafile        041118027
      Method          GEBIOTA2017
28) Sample      28    1232-CCV,185539:1,17498,AR123 OL
      Datafile        041118028
      Method          GEBIOTA2017
```

GCSV Batch 17653 HBN: 285728
Screened: 40GCSI 4/11/18

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BLM 4/12/18

Continued on Page —

Read and Understood By

Signed 4/12/18 Date Signed 4-12-18 Date

```
      Sequence Name: C:\msdchem\1\sequence\041318.s
            Comment:
           Operator: BLM
          Data Path: C:\MSDCHEM\1\DATA\041318\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          041318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041318003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041318004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041318005
     Method            GEBIOTA2017
 6) Sample          6  40157492005 x3,,17661,BIOTA
     Datafile          041318006
     Method            GEBIOTA2017
 7) Sample          7  40157694004 x2,,17661,BIOTA
     Datafile          041318007
     Method            GEBIOTA2017
 8) Sample          8  40157694006 x4,,17661,BIOTA
     Datafile          041318008
     Method            GEBIOTA2017
 9) Sample          9  1672269,,17670,BIOTA
     Datafile          041318009
     Method            GEBIOTA2017
10) Sample         10  1672270,,17670,BIOTA
     Datafile          041318010
     Method            GEBIOTA2017
11) Sample         11  40157492006,,17670,BIOTA
     Datafile          041318011
     Method            GEBIOTA2017
12) Sample         12  40157492007 x3,,17670,BIOTA
     Datafile          041318012
     Method            GEBIOTA2017
13) Sample         13  40157492008,,17670,BIOTA RS
     Datafile          041318013
     Method            GEBIOTA2017
14) Sample         14  40157492009 x2,,17670,BIOTA
     Datafile          041318014
     Method            GEBIOTA2017
15) Sample         15  40157492010 x5,,17670,BIOTA
     Datafile          041318015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041318016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041318017
     Method            GEBIOTA2017
18) Sample         18  40157492011 x5,,17670,BIOTA
     Datafile          041318018
     Method            GEBIOTA2017
19) Sample         19  40157492016,,17670,BIOTA
     Datafile          041318019

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```

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Read and Understood By

Bryan Maynard — Signed — 4/18/18 — Date

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

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

GCSV Batch 17670 Screened 40GCSI 4/13/18

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BLM 4/18/18

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Read and Understood By

Signed 4/18/18 Date

Signed Jim O'Conn 4-18-18 Date

Standard Log Report

Standards Log Information for Standard #193584

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/10/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #193584

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

Composed of Information for Standard #193584

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

Standard Log Report

Standards Log Information for Standard #193230

WORKING STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #193230

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #193230

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

Standard Log Report

Standards Log Information for Standard #193164

STOCK STANDARD

Created By:	DLH	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/05/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/02/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/5/18

Compound Name and Concentration for Standard #193164

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 #193046

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/03/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #193046

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

Composed of Information for Standard #193046

Composed of Standard Seq	Volume	Units
192551	2000	mL
190941	2000	mL

Standard Log Report

Standards Log Information for Standard #192624

STOCK STANDARD

Created By:	DLH	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/29/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	09/29/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #192624

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #192551

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405817
Create Date:	03/28/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	03/22/2019	**Manufacturer Lot ID:**	0000191733	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 3/28/18

Compound Name and Concentration for Standard #192551

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	03/22/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/22/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\032318spk.b\A323018 100% Recovery

Compound Name and Concentration for Standard #192096

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #192096

Composed of Standard Seq	Volume	Units
179368	196	mL
81343	1	mL
81342	1	mL
81341	1	mL
81340	1	mL

Standard Log Report

Standards Log Information for Standard #190944

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190944

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #190942

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190942

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #190941

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190941

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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 #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

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

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188141

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL5

Notes:

1221 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #188141

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	1 ug/mL	PCB-1221 (Aroclor 1221)-1	1 ug/mL
PCB-1221 (Aroclor 1221)-2	1 ug/mL	PCB-1221 (Aroclor 1221)-3	1 ug/mL
PCB-1221 (Aroclor 1221)-4	1 ug/mL	PCB-1232 (Aroclor 1232)-5	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #188141

Composed of Standard Seq	Volume	Units
188129	1500	uL
185526	1000	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #188140

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL4

Notes:

1221 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #188140

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.8 ug/mL	PCB-1221 (Aroclor 1221)-1	.8 ug/mL
PCB-1221 (Aroclor 1221)-2	.8 ug/mL	PCB-1221 (Aroclor 1221)-3	.8 ug/mL
PCB-1221 (Aroclor 1221)-4	.8 ug/mL	PCB-1232 (Aroclor 1232)-5	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #188140

Composed of Standard Seq	Volume	Units
188129	1000	uL
185526	800	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #188139

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL2

Notes:

1221 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #188139

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.2 ug/mL	PCB-1221 (Aroclor 1221)-1	.2 ug/mL
PCB-1221 (Aroclor 1221)-2	.2 ug/mL	PCB-1221 (Aroclor 1221)-3	.2 ug/mL
PCB-1221 (Aroclor 1221)-4	.2 ug/mL	PCB-1232 (Aroclor 1232)-5	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #188139

Composed of Standard Seq	Volume	Units
188129	200	uL
185526	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #188138

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL1

Notes:

NY 1221 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188138

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.1 ug/mL	PCB-1221 (Aroclor 1221)-1	.1 ug/mL
PCB-1221 (Aroclor 1221)-2	.1 ug/mL	PCB-1221 (Aroclor 1221)-3	.1 ug/mL
PCB-1221 (Aroclor 1221)-4	.1 ug/mL	PCB-1232 (Aroclor 1232)-5	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188138

Composed of Standard Seq	Volume	Units
188129	100	uL
185526	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

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

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

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

Composed of Information for Standard #188136

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

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

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

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

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

Composed of Information for Standard #188135

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

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

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

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

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

Composed of Information for Standard #188134

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

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

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

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

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

Composed of Information for Standard #188132

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

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

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

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

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

Composed of Information for Standard #188129

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

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

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

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

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

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

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

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

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

Composed of Information for Standard #185565

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

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

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

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

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

Composed of Information for Standard #185564

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

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

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

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

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

Composed of Information for Standard #185563

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

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

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

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

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

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 #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

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

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

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

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

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

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

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

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

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

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

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

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

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

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

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

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

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

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

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

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

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

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

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

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

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

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

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

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

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

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

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

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

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

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

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

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

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

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

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ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: 4/22/14 cre

Certificate of Analysis

Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

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

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

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Rev 0

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

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

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Aroclor® 1221 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

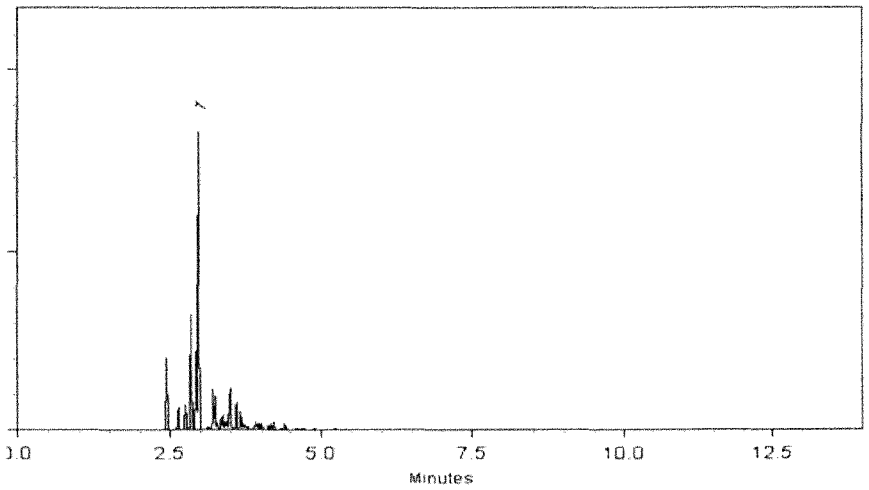
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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

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

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

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

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

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

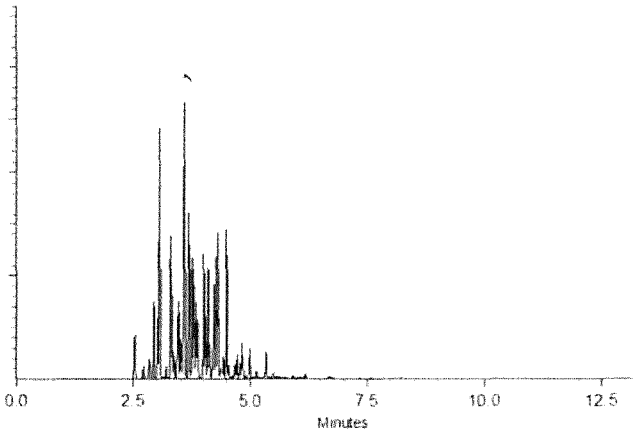
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Aroclor® 1242 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

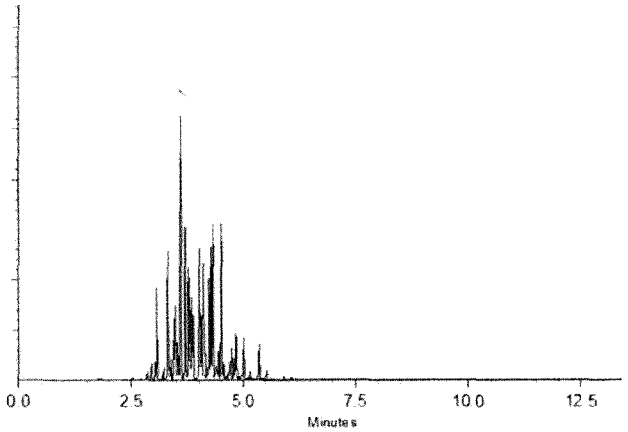
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Aroclor® 1248 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

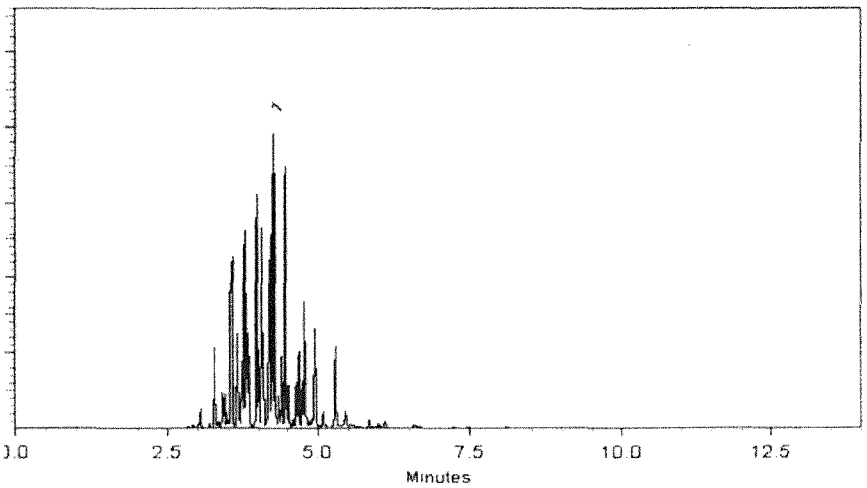
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

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

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Aroclor® 1254 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

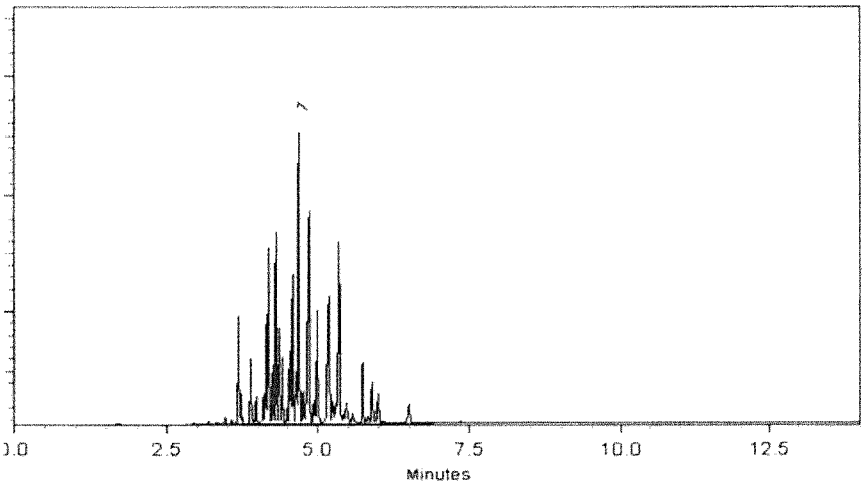
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

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

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

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

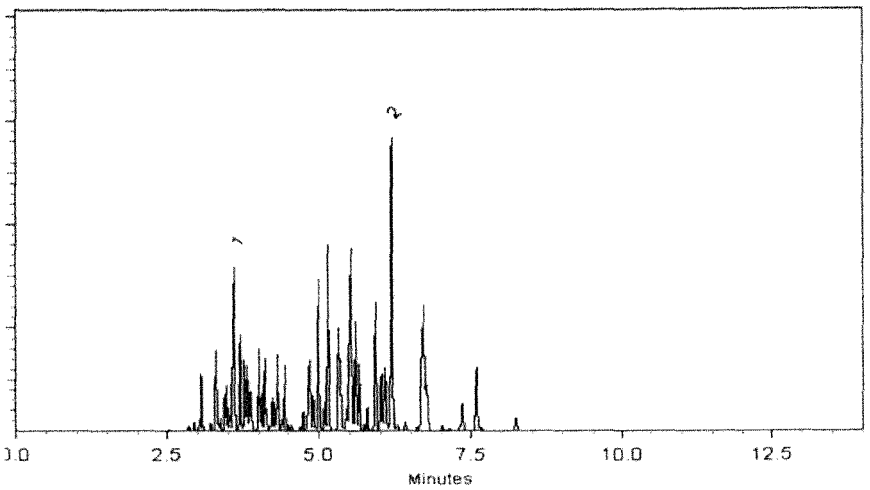
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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Date Received: _____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

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

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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.

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Date Received: _____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

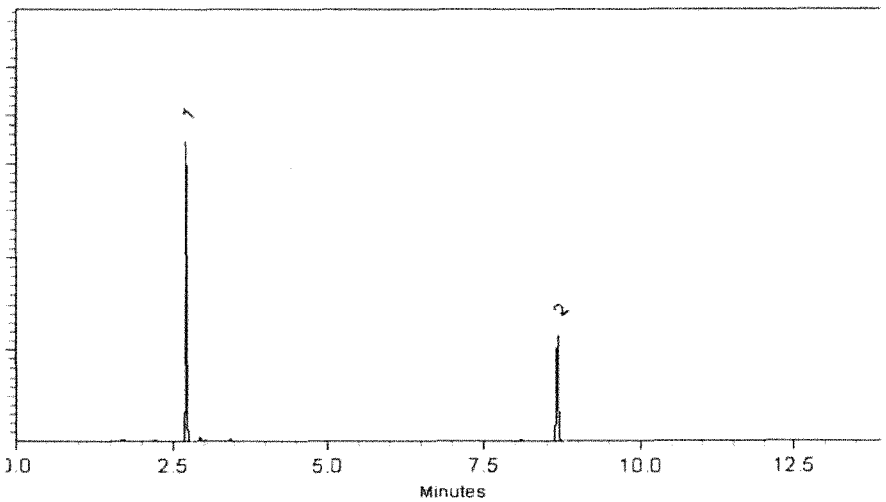
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

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

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

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

Honeywell
Quality Control Approval

Janna Dickinson

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

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

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Date Received: _____

Certificate of Analysis

Rev 0

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

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

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

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

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

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

J.T.Baker® | avantor™

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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
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Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James Ethier
Jamie Ethier
Vice President Global Quality

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

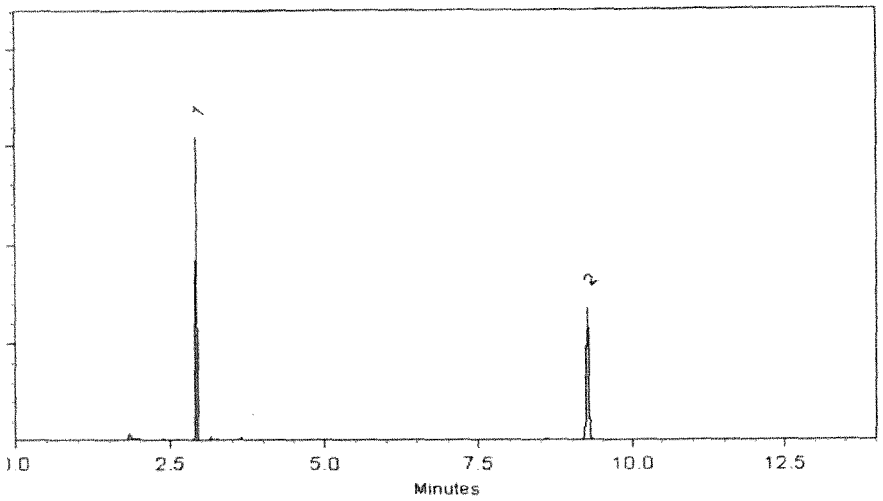
Carrier Gas:
helium-constant pressure 20 psi.

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

o2si smart solutions®

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

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1

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

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

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

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

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

Second Source standards are prepared according to NELAC

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

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

J.T.Baker | avantor

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

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

SAMPLE NO.

TD1-170615-01-YB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.41		%	1	04/13/2018 06:30

SAMPLE NO.

TD1-170615-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.84		%	1	04/09/2018 06:25

SAMPLE NO.

TD1-170615-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.9		%	1	04/09/2018 06:25

SAMPLE NO.

SW1-170615-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-YB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.82		%	1	04/13/2018 06:30

SAMPLE NO.

ND5-170615-01-BB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.73		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.87		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.8		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.97		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.71		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	04/09/2018 06:25

SAMPLE NO.

ND5-170615-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.47		%	1	04/09/2018 06:25

SAMPLE NO.

ND3-170615-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.9		%	1	04/09/2018 06:25

SAMPLE NO.

ND3-170615-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.0		%	1	04/09/2018 06:25

SAMPLE NO.

ND3-170615-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.39		%	1	04/09/2018 06:25

SAMPLE NO.

ND3-170615-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	04/09/2018 06:25

SAMPLE NO.

ND3-170615-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157703019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.6		%	1	04/09/2018 06:25

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1669846	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1673137	C
Lipid									<0.030	U

SAMPLE NO.

1669849DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.1	1.0	0

SAMPLE NO.

1673139DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.32	0.30	9

SAMPLE NO.

1673141DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157703 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.26	0.20	28

Prep Log Report

Batch Information: OEXT 285344 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 14:35				

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	**1669846**	Y	-0.005000	04/09/2018 06:25:13		10	5	1	0.9278	0.9277	M	1669842
LIPID	BLANK	**1669847**	Y	0.005000	04/09/2018 06:25:13		10	5	1	0.9296	0.9297	M	1669843
LIPID	PS	**40157703002**	Y	0.8390	04/09/2018 06:25:13		10.0121	5	1	0.9246	0.9414	M	
LIPID	PS	**40157703003**	Y	1.916	04/09/2018 06:25:13		9.997	5	1	0.9257	0.964	M	
LIPID	PS	**40157703004**	Y	1.363	04/09/2018 06:25:13		9.976	5	1	0.9238	0.951	M	
LIPID	PS	**40157703006**	Y	1.172	04/09/2018 06:25:13		9.9809	5	1	0.9247	0.9481	M	
LIPID	PS	**40157703007**	Y	0.7314	04/09/2018 06:25:13		9.9813	5	1	0.9254	0.94	M	
LIPID	PS	**40157703008**	Y	0.8659	04/09/2018 06:25:13		9.9893	5	1	0.928	0.9453	M	
LIPID	PS	**40157703009**	Y	1.796	04/09/2018 06:25:13		10.025	5	1	0.9262	0.9622	M	
LIPID	PS	**40157703010**	Y	1.152	04/09/2018 06:25:13		10.0253	5	1	0.9277	0.9508	M	
LIPID	PS	**40157703011**	Y	0.9714	04/09/2018 06:25:13		9.9851	5	1	0.9255	0.9449	M	
LIPID	PS	**40157703012**	Y	0.7106	04/09/2018 06:25:13		9.9921	5	1	0.9263	0.9405	M	
LIPID	PS	**40157703013**	Y	1.050	04/09/2018 06:25:13		10.0028	5	1	0.9267	0.9477	M	
LIPID	PS	**40157703014**	Y	0.4739	04/09/2018 06:25:13		10.0241	5	1	0.9235	0.933	M	
LIPID	PS	**40157703015**	Y	1.911	04/09/2018 06:25:13		9.9707	5	1	0.9272	0.9653	M	
LIPID	PS	**40157703016**	Y	1.986	04/09/2018 06:25:13		10.0176	5	1	0.9258	0.9656	M	
LIPID	PS	**40157703017**	Y	0.3863	04/09/2018 06:25:13		9.9676	5	1	0.9213	0.929	M	
LIPID	RQS	**40157703018**	Y	1.052	04/09/2018 06:25:13		9.9767	5	1	0.9229	0.9439	M	
LIPID	DUP	**1669849**	Y	1.049	04/09/2018 06:25:13		10.011	5	1	0.9258	0.9468	M	1669845

Prep Log Report

40157703

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	**40157703019**	Y	1.575	04/09/2018 06:25:13		9.9989	5	1	0.9237	0.9552	M	
LIPID	PS	**40157830001**	Y	0.5409	04/09/2018 06:25:13		9.9827	5	1	0.9258	0.9366	M	
LIPID	PS	**40157830002**	Y	0.8558	04/09/2018 06:25:13		9.9911	5	1	0.9245	0.9416	M	
LIPID	PS	**40157830004**	Y	0.3347	04/09/2018 06:25:13		10.008	5	1	0.9266	0.9333	M	
LIPID	MS	**1682606**	Y	1.073	04/09/2018 06:25:13		10.0207	5	1	.9229	0.9444	M	

Prep Log Report

Batch Information: OEXT 285997 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 10:33				

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	**1673137**	Y	-0.02000	04/13/2018 06:30:57		10	5	1	0.9297	0.9293	M	1672269
LIPID	BLANK	**1673138**	Y	-0.05500	04/13/2018 06:30:57		10	5	1	0.9258	0.9247	M	1672270
LIPID	PS	**40157492006**	Y	0.3362	04/13/2018 06:30:57		9.9656	5	1	0.928	0.9347	M	
LIPID	PS	**40157492007**	Y	0.3954	04/13/2018 06:30:57		9.9904	5	1	0.9311	0.939	M	
LIPID	PS	**40157492008**	Y	0.3350	04/13/2018 06:30:57		10.0007	5	1	0.9292	0.9359	M	
LIPID	PS	**40157492009**	Y	0.2840	04/13/2018 06:30:57		10.0355	5	1	0.9237	0.9294	M	
LIPID	PS	**40157492010**	Y	0.9355	04/13/2018 06:30:57		9.9951	5	1	0.9274	0.9461	M	
LIPID	PS	**40157492011**	Y	0.9935	04/13/2018 06:30:57		9.9652	5	1	0.9279	0.9477	M	
LIPID	PS	**40157492016**	Y	0.3250	04/13/2018 06:30:57		9.9995	5	1	0.9298	0.9363	M	
LIPID	DUP	**1673139**	Y	0.2958	04/13/2018 06:30:57		9.9727	5	1	0.9281	0.934	M	1672271
LIPID	PS	**40157698008**	Y	0.2106	04/13/2018 06:30:57		9.9712	5	1	0.9286	0.9328	M	
LIPID	PS	**40157698009**	Y	0.4955	04/13/2018 06:30:57		9.9904	5	1	0.9238	0.9337	M	
LIPID	PS	**40157698010**	Y	0.6420	04/13/2018 06:30:57		9.9685	5	1	0.9304	0.9432	M	
LIPID	RQS	**40157698011**	Y	0.2642	04/13/2018 06:30:57		10.0296	5	1	0.9298	0.9351	M	
LIPID	DUP	**1673141**	Y	0.1995	04/13/2018 06:30:57		10.0262	5	1	0.933	0.937	M	1672273
LIPID	PS	**40157703001**	Y	0.4139	04/13/2018 06:30:57		10.0274	5	1	0.9301	0.9384	M	
LIPID	PS	**40157703005**	Y	0.8166	04/13/2018 06:30:57		9.9805	5	1	0.9286	0.9449	M	
LIPID	PS	**40157830013**	Y	0.9052	04/13/2018 06:30:57		9.9973	5	1	0.9221	0.9402	M	
LIPID	MS	**1683130**	Y	0.2548	04/13/2018 06:30:57		10.0077	5	1	.9262	0.9313	M	

Client Name: GE
Project #: 40157703
Sample Type: Fish
Date/Time Removed to Thaw: 01-03-18
Date/Time Prepped: 04-04-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	B	F	Y	235.3	Y	U	45.4	Left / Both	Y	9AG	1	Y	45.1	C	
2	B	F	Y	428.2	Y	F	43.5	Left / Both	Y	9AG	1	Y	42.0	C	
3	B	F	Y	735.4	Y	M	89.5	Left / Both	Y	9AG	1	Y	87.0	C	
4	B	F	Y	790.8	Y	F	89.2	Left / Both	Y	9AG	1	Y	88.2	C	
5	B	F	Y	179.0	Y	F	27.9	Left / Both	Y	9AG	1	Y	27.3	C	
6	B	F	Y	189.0	Y	U	50.4	Left / Both	Y	9AG	1	Y	49.2	C	
7	B	F	Y	207.1	Y	U	48.3	Left / Both	Y	9AG	1	Y	47.5	C	
8	B	F	Y	659.0	Y	M	88.5	Left / Both	Y	9AG	1	Y	85.7	C	
9	B	F	Y	686.9	Y	F	61.6	Left / Both	Y	9AG	1	Y	61.4	C	
10	B	F	Y	551.1	Y	M	62.0	Left / Both	Y	9AG	1	Y	60.3	C	
11	B	F	Y	705.4	Y	F	66.7	Left / Both	Y	9AG	1	Y	66.2	C	
12	B	F	Y	753.2	Y	F	82.1	Left / Both	Y	9AG	1	Y	78.3	C	
13	B	F	Y	718.2	Y	U	74.4	Left / Both	Y	9AG	1	Y	74.0	C	
14	B	F	Y	313.8	Y	U	74.1	Left / Both	Y	9AG	1	Y	70.9	C	
15	B	F	Y	736.2	Y	U	80.3	Left / Both	Y	9AG	1	Y	79.5	C	
16	B	F	Y	544.3	Y	U	67.3	Left / Both	Y	9AG	1	Y	65.6	C	
17	B	F	Y	475.8	Y	U	64.3	~~Left~~ / Both	CWN 04-04 Y	9AG	1	Y	64.0	C	
18	B	F	Y	918.9	Y	F	94.8	Left / Both	Y	9AG	1	Y	94.5	C	
19	B	F	Y	781.1	Y	F	61.4	Left / Both	Y	9AG	1	Y	61.2	C	
					CWN 04-04-18			Left / Both							

(1) M = Male, F = Female, U = Undetermined

(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-B-036-04AB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

4/21/18
Date

40157703

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