Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40151804

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

SDG Narrative . . . 29

Organic

GC-ECD PCBs

Surrogate Recovery Summary (Form 2) . . . 31

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) . . . 33

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) . . . 35

Duplicate Summary (Form 3) . . . 37

Method Blank Association Summary (Form 4) . . . 40

Analytical Results with Raw Data (Form 1) . . . 42

Initial Calibration Summary (Form 6) . . . 132

Raw Data for Initial Calibration Standards . . . 139

Continuing Calibration Summary (Form 7) . . . 279

Raw Data for Continuing Calibration Standards . . . 296

Raw Data QC . . . 386

Preparation Logs Raw Data . . . 424

Instrument Run Log . . . 428

Standards Traceability . . . 448

Certificate of Analysis . . . 520

InOrganic

Gravimetric

Analytical Results (Form 1-IN) . . . 549

Blanks (Form 3-IN) . . . 559

Duplicates (Form 6-IN) . . . 561

Preparation Logs Raw Data . . . 564

Biota Prep Logs

Biota Prep Log . . . 568

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

May 04, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 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.

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

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

CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

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

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

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

SAMPLE SUMMARY

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151804001	**ND2-170613-01-YP-03**	Tissue	06/13/17 13:29	06/16/17 10:05
40151804002	**ND2-170613-01-YP-02**	Tissue	06/13/17 13:28	06/16/17 10:05
40151804003	**ND2-170613-01-YP-01**	Tissue	06/13/17 13:26	06/16/17 10:05
40151804004	**ND2-170613-01-SMB-05**	Tissue	06/13/17 13:25	06/16/17 10:05
40151804005	**ND2-170613-01-SMB-04**	Tissue	06/13/17 13:23	06/16/17 10:05
40151804006	**ND2-170613-01-SMB-03**	Tissue	06/13/17 13:20	06/16/17 10:05
40151804007	**ND2-170613-01-SMB-02**	Tissue	06/13/17 13:17	06/16/17 10:05
40151804008	**ND2-170613-01-SMB-01**	Tissue	06/13/17 13:15	06/16/17 10:05
40151804009	**ND1-170613-01-YP-05**	Tissue	06/13/17 13:54	06/16/17 10:05
40151804010	**ND1-170613-01-YP-04**	Tissue	06/13/17 13:50	06/16/17 10:05

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

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

SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151804001	**ND2-170613-01-YP-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804002	**ND2-170613-01-YP-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804003	**ND2-170613-01-YP-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804004	**ND2-170613-01-SMB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804005	**ND2-170613-01-SMB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804006	**ND2-170613-01-SMB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804007	**ND2-170613-01-SMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804008	**ND2-170613-01-SMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804009	**ND1-170613-01-YP-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151804010	**ND1-170613-01-YP-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 04, 2018

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

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

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

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

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

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

QC Batch: 282598

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

- DUP (Lab ID: 1655665)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND2-170613-01-SMB-02 (Lab ID: 40151804007)
  - 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: 282598

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40150295019

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

- MS (Lab ID: 1655663)
  - PCB-1242 (Aroclor 1242)

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 04, 2018

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

Additional Comments:

Batch Comments:

The set was re-extracted due to extraction error.
- QC Batch: 283147

Analyte Comments:

QC Batch: 282598

1q: Sample was re-analyzed due to incorrect dilution.
- ND2-170613-01-SMB-04 (Lab ID: 40151804005)
  - PCB-1016 (Aroclor 1016)

QC Batch: 283977

1q: Sample was re-analyzed due to incorrect dilution.
- MS (Lab ID: 1662165)
  - PCB-1016 (Aroclor 1016)
- ND2-170613-01-YP-02 (Lab ID: 40151804002)
  - PCB-1016 (Aroclor 1016)

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 04, 2018

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

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

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

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

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

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

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

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

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

Additional Comments:

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 04, 2018

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-YP-03 **Lab ID: 40151804001** Collected: 06/13/17 13:29 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.3**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**173**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**847**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**442**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**83.0J**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	11096-82-5	
PCB, Total	**1550**	ug/kg	150	34.3	3	03/22/18 07:22	03/23/18 19:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		3	03/22/18 07:22	03/23/18 19:14	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		3	03/22/18 07:22	03/23/18 19:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		03/23/18 06:20		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-YP-02 **Lab ID: 40151804002** Collected: 06/13/17 13:28 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.9**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**181**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**240**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**142**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**55.5J**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	11096-82-5	
PCB, Total	**619**	ug/kg	100	22.9	2	03/22/18 07:22	04/05/18 14:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		2	03/22/18 07:22	04/05/18 14:55	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		2	03/22/18 07:22	04/05/18 14:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%	0.030	0.030	1		03/23/18 06:20		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-YP-01 **Lab ID: 40151804003** Collected: 06/13/17 13:26 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.9**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**522**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**361**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**67.0J**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	11096-82-5	
PCB, Total	**949**	ug/kg	100	22.9	2	03/22/18 07:22	03/23/18 20:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		2	03/22/18 07:22	03/23/18 20:17	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		2	03/22/18 07:22	03/23/18 20:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.98**	%	0.030	0.030	1		03/23/18 06:20		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-SMB-05 **Lab ID: 40151804004** Collected: 06/13/17 13:25 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.1**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.1**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**563**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**533**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**180**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	11096-82-5	
PCB, Total	**1280**	ug/kg	150	34.1	3	03/12/18 07:42	03/13/18 19:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		3	03/12/18 07:42	03/13/18 19:50	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		3	03/12/18 07:42	03/13/18 19:50	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.33**	%	0.030	0.030	1		03/13/18 08:59		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-SMB-04 **Lab ID: 40151804005** Collected: 06/13/17 13:23 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	53469-21-9	
PCB-1248 (Aroclor 1248)	**274**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**414**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	11097-69-1	
PCB-1260 (Aroclor 1260)	**182**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	11096-82-5	
PCB, Total	**870**	ug/kg	100	22.8	2	03/12/18 07:42	03/20/18 14:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		2	03/12/18 07:42	03/20/18 14:54	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		2	03/12/18 07:42	03/20/18 14:54	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.25**	%	0.030	0.030	1		03/13/18 08:59		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-SMB-03 **Lab ID: 40151804006** Collected: 06/13/17 13:20 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**927**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**708**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**219**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	11096-82-5	
PCB, Total	**1850**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 20:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		3	03/12/18 07:42	03/13/18 20:22	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		3	03/12/18 07:42	03/13/18 20:22	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.41**	%	0.030	0.030	1		03/13/18 08:59		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-SMB-02 **Lab ID: 40151804007** Collected: 06/13/17 13:17 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<170**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<170**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<170**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<170**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**2530**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**2420**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**693J**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	11096-82-5	
PCB, Total	**5650**	ug/kg	748	170	15	03/12/18 07:42	03/13/18 21:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		15	03/12/18 07:42	03/13/18 21:09	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		15	03/12/18 07:42	03/13/18 21:09	2051-24-3	S4
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%	0.030	0.030	1		03/13/18 08:59		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND2-170613-01-SMB-01 **Lab ID: 40151804008** Collected: 06/13/17 13:15 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**626**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**631**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**230**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	11096-82-5	
PCB, Total	**1490**	ug/kg	150	34.2	3	03/12/18 07:42	03/13/18 21:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	60-140		3	03/12/18 07:42	03/13/18 21:41	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		3	03/12/18 07:42	03/13/18 21:41	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.29**	%	0.030	0.030	1		03/13/18 08:59		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND1-170613-01-YP-05 **Lab ID: 40151804009** Collected: 06/13/17 13:54 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**673**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**343**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**47.3J**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	11096-82-5	
PCB, Total	**1060**	ug/kg	150	34.2	3	03/22/18 07:22	03/23/18 20:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		3	03/22/18 07:22	03/23/18 20:33	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		3	03/22/18 07:22	03/23/18 20:33	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/23/18 06:20		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Sample: ND1-170613-01-YP-04 **Lab ID: 40151804010** Collected: 06/13/17 13:50 Received: 06/16/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.8**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.8**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.8**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.8**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**1210**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**615**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**117J**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	11096-82-5	
PCB, Total	**1940**	ug/kg	249	56.8	5	03/22/18 07:22	03/23/18 20:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		5	03/22/18 07:22	03/23/18 20:49	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		5	03/22/18 07:22	03/23/18 20:49	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:10		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/23/18 06:20		

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

QC Batch: 282598 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151804004, 40151804005, 40151804006, 40151804007, 40151804008

METHOD BLANK: 1655661 | Matrix: Tissue
Associated Lab Samples: 40151804004, 40151804005, 40151804006, 40151804007, 40151804008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
Decachlorobiphenyl (S)	%	83	60-140		03/13/18 14:50	
Tetrachloro-m-xylene (S)	%	73	60-140		03/13/18 14:50	

LABORATORY CONTROL SAMPLE: 1655662

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	212	85	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)	%			82	60-140	
Tetrachloro-m-xylene (S)	%			69	60-140	

MATRIX SPIKE SAMPLE: 1655663

Parameter	Units	40150295019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<56.9		<56.9			
PCB-1221 (Aroclor 1221)	ug/kg	<56.9		<56.9			
PCB-1232 (Aroclor 1232)	ug/kg	<56.9		<56.9			
PCB-1242 (Aroclor 1242)	ug/kg	<56.9	250	519	208	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	1040		1220			
PCB-1254 (Aroclor 1254)	ug/kg	1000		1060			
PCB-1260 (Aroclor 1260)	ug/kg	510		517			
Decachlorobiphenyl (S)	%				103	60-140	
Tetrachloro-m-xylene (S)	%				80	60-140	

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

REPORT OF LABORATORY ANALYSIS

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

SAMPLE DUPLICATE: 1655664

Parameter	Units	40150295019 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<56.9	<56.9		40	
PCB-1221 (Aroclor 1221)	ug/kg	<56.9	<56.9		40	
PCB-1232 (Aroclor 1232)	ug/kg	<56.9	<56.9		40	
PCB-1242 (Aroclor 1242)	ug/kg	<56.9	<56.9		40	
PCB-1248 (Aroclor 1248)	ug/kg	1040	786	28	40	
PCB-1254 (Aroclor 1254)	ug/kg	1000	746	29	40	
PCB-1260 (Aroclor 1260)	ug/kg	510	375	31	40	
Decachlorobiphenyl (S)	%	115	100	14		
Tetrachloro-m-xylene (S)	%	91	83	9		

SAMPLE DUPLICATE: 1655665

Parameter	Units	40151804007 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<170	<171		40	
PCB-1221 (Aroclor 1221)	ug/kg	<170	<171		40	
PCB-1232 (Aroclor 1232)	ug/kg	<170	<171		40	
PCB-1242 (Aroclor 1242)	ug/kg	<170	<171		40	
PCB-1248 (Aroclor 1248)	ug/kg	2530	2760	9	40	
PCB-1254 (Aroclor 1254)	ug/kg	2420	2660	9	40	
PCB-1260 (Aroclor 1260)	ug/kg	693J	792		40	
Decachlorobiphenyl (S)	%	0	0			S4
Tetrachloro-m-xylene (S)	%	0	0			S4

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

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

QC Batch: 283977 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151804001, 40151804002, 40151804003, 40151804009, 40151804010

METHOD BLANK: 1662163 | Matrix: Tissue
Associated Lab Samples: 40151804001, 40151804002, 40151804003, 40151804009, 40151804010

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

LABORATORY CONTROL SAMPLE: 1662164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	240	96	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			91	60-140	
Tetrachloro-m-xylene (S)	%			78	60-140	

MATRIX SPIKE SAMPLE: 1662165

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

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

REPORT OF LABORATORY ANALYSIS

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

SAMPLE DUPLICATE: 1662166

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

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.

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

QC Batch: 282623 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151804004, 40151804005, 40151804006, 40151804007, 40151804008

METHOD BLANK: 1655713 | Matrix: Tissue
Associated Lab Samples: 40151804004, 40151804005, 40151804006, 40151804007, 40151804008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/13/18 08:59	

MATRIX SPIKE SAMPLE: 1682460

Parameter	Units	40150295019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	3.0		3.0			

SAMPLE DUPLICATE: 1655716

Parameter	Units	40150295019 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	3.0	2.1	36	40	

SAMPLE DUPLICATE: 1655717

Parameter	Units	40151804007 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.39	0.41	3	40	

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

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

QC Batch: 284080 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40151804001, 40151804002, 40151804003, 40151804009, 40151804010

METHOD BLANK: 1662744 Matrix: Tissue
Associated Lab Samples: 40151804001, 40151804002, 40151804003, 40151804009, 40151804010

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

MATRIX SPIKE SAMPLE: 1682565

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

SAMPLE DUPLICATE: 1662747

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

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

REPORT OF LABORATORY ANALYSIS

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

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

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.

BATCH QUALIFIERS

Batch: 283147

[1] The set was re-extracted due to extraction error.

ANALYTE QUALIFIERS

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

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

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

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151804

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151804001	**ND2-170613-01-YP-03**	EPA 3541	283977	EPA 8082A Mod	284142
40151804002	**ND2-170613-01-YP-02**	EPA 3541	283977	EPA 8082A Mod	284142
40151804003	**ND2-170613-01-YP-01**	EPA 3541	283977	EPA 8082A Mod	284142
40151804004	**ND2-170613-01-SMB-05**	EPA 3541	282598	EPA 8082A Mod	283147
40151804005	**ND2-170613-01-SMB-04**	EPA 3541	282598	EPA 8082A Mod	283147
40151804006	**ND2-170613-01-SMB-03**	EPA 3541	282598	EPA 8082A Mod	283147
40151804007	**ND2-170613-01-SMB-02**	EPA 3541	282598	EPA 8082A Mod	283147
40151804008	**ND2-170613-01-SMB-01**	EPA 3541	282598	EPA 8082A Mod	283147
40151804009	**ND1-170613-01-YP-05**	EPA 3541	283977	EPA 8082A Mod	284142
40151804010	**ND1-170613-01-YP-04**	EPA 3541	283977	EPA 8082A Mod	284142
40151804001	**ND2-170613-01-YP-03**	Pace Gender Typing	281982		
40151804002	**ND2-170613-01-YP-02**	Pace Gender Typing	281982		
40151804003	**ND2-170613-01-YP-01**	Pace Gender Typing	281982		
40151804004	**ND2-170613-01-SMB-05**	Pace Gender Typing	281982		
40151804005	**ND2-170613-01-SMB-04**	Pace Gender Typing	281982		
40151804006	**ND2-170613-01-SMB-03**	Pace Gender Typing	281982		
40151804007	**ND2-170613-01-SMB-02**	Pace Gender Typing	281982		
40151804008	**ND2-170613-01-SMB-01**	Pace Gender Typing	281982		
40151804009	**ND1-170613-01-YP-05**	Pace Gender Typing	281982		
40151804010	**ND1-170613-01-YP-04**	Pace Gender Typing	281982		
40151804001	**ND2-170613-01-YP-03**	Pace Lipid	284080		
40151804002	**ND2-170613-01-YP-02**	Pace Lipid	284080		
40151804003	**ND2-170613-01-YP-01**	Pace Lipid	284080		
40151804004	**ND2-170613-01-SMB-05**	Pace Lipid	282623		
40151804005	**ND2-170613-01-SMB-04**	Pace Lipid	282623		
40151804006	**ND2-170613-01-SMB-03**	Pace Lipid	282623		
40151804007	**ND2-170613-01-SMB-02**	Pace Lipid	282623		
40151804008	**ND2-170613-01-SMB-01**	Pace Lipid	282623		
40151804009	**ND1-170613-01-YP-05**	Pace Lipid	284080		
40151804010	**ND1-170613-01-YP-04**	Pace Lipid	284080		

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

RMN

40151804

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-05
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	011	ND2-170613-01	ND2-170613-01-YP-03	6/13/2017	13:29	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	012	ND2-170613-01	ND2-170613-01-YP-02	6/13/2017	13:28	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	013	ND2-170613-01	ND2-170613-01-YP-01	6/13/2017	13:26	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	014	ND2-170613-01	ND2-170613-01-SMB-05	6/13/2017	13:25	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	015	ND2-170613-01	ND2-170613-01-SMB-04	6/13/2017	13:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	016	ND2-170613-01	ND2-170613-01-SMB-03	6/13/2017	13:20	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	017	ND2-170613-01	ND2-170613-01-SMB-02	6/13/2017	13:17	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	018	ND2-170613-01	ND2-170613-01-SMB-01	6/13/2017	13:15	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	019	ND1-170613-01	ND1-170613-01-YP-05	6/13/2017	13:54	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	020	ND1-170613-01	ND1-170613-01-YP-04	6/13/2017	13:50	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc

1-ziploc

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature JR	Signature	Signature	Signature	Signature	Signature
Print Name Jim Ryan	Print Name Fed EX	Print Name	Print Name Meeker	Print Name	Print Name
Company Anchor QEA	Company	Company Fedex	Company Pace	Company	Company
Date/Time 6/13/17 17:45	Date/Time 6/13/17 17:45	Date/Time 6/14/17 1005	Date/Time 6/14/17 1005	Date/Time	Date/Time

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

Pace Analytical

Sample Condition Upon Receipt

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

Project #: WO#: 40151804
40151804

Client Name: Anchor

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

Tracking #: 786867884137

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: 5 /Corr: 5 **Biological Tissue is Frozen:** ☐ yes ☑ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 6/16/17
Initials: [illegible]

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

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

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

Person Contacted: Date/Time:

Comments/ Resolution: all samples have ice melt water in zip-lock bag [illegible] 6/16/17

Project Manager Review: AL for TN **Date:** 6/16/17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40151804
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at 5°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):** Batch QC was analyzed with this SDG and one portion of each parent sample was fortified with Aroclor 1242. MS 1655663 required a 1:5 dilution to bring a non-fortified Aroclor within instrument calibration range. MS 1662165 required a 1:2 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met for MS 1655663; the “M1” data qualifier was applied to MS 1655663 on the final report.

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

F. Sample Duplicate: Sample ND2-170613-01-SMB-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: All samples of this SDG were analyzed at a dilution to bring the level of Aroclors within the calibration range of the instrument.

H. Reanalysis: Samples ND2-170613-01-YP-02 and ND2-170613-01-SMB-04 were initially analyzed straight based on screener data. Upon analysis, the samples were found to require reanalysis at a dilution to bring individual Aroclor peaks within instrument calibration range. The samples were reported with the “1q” data qualifier on the final report to note the occurrence.

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

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

Signed: Leigh A Begalske Date: 05/17/18

Name: Leigh A. Begalske Position: Quality Assurance Auditor

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151804 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1655661	1655661BLANK	83	73
1655662	1655662LCS	82	69
1655665	1655665DUP	0*	0*
40151804004	ND2-170613-01-SMB-05	96	87
40151804005	ND2-170613-01-SMB-04	84	73
40151804006	ND2-170613-01-SMB-03	93	82
40151804007	ND2-170613-01-SMB-02	0*	0*
40151804008	ND2-170613-01-SMB-01	88	78

	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.: 40151804 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1662163	1662163BLANK	91	77
1662164	1662164LCS	91	78
40151804001	ND2-170613-01-YP-03	103	85
40151804002	ND2-170613-01-YP-02	84	73
40151804003	ND2-170613-01-YP-01	92	83
40151804009	ND1-170613-01-YP-05	100	87
40151804010	ND1-170613-01-YP-04	108	82

	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: 03/12/2018

Instrument: 40GCSJ

Lab File ID: 031318.B\031318007.D

Lab Sample ID: 1655662LCS

Date Analyzed (1): 03/13/2018

LCS Lot No: 182336

SDG No.: 40151804

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	212	85	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/22/2018

Instrument: 40GCSJ

Lab File ID: 032318.B\032318007.D

Lab Sample ID: 1662164LCS

Date Analyzed (1): 03/23/2018

LCS Lot No: 182336

SDG No.: 40151804

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

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/12/2018

Instrument: 40GCSJ

Parent Sample ID: 40150295019

Matrix Spike - Sample No: 1655663MS

Date Analyzed (1): 03/13/2018

Lab File ID: 031318.B\031318008.D

SDG No.: 40151804

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<56.9	519	208	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: 03/22/2018

Instrument: 40GCSJ

Parent Sample ID: 40151619002

Matrix Spike - Sample No: 1662165MS

Date Analyzed (1): 03/27/2018

Lab File ID: 032718.B\032718007.D

SDG No.: 40151804

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<11.4	308	123	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/12/2018

Instrument 40GCSJ

Lab Sample ID: 40150295019

Duplicate Sample No: 40150295019DUP

Date Analyzed: 03/13/2018

Lab File ID: 031318.B\031318010.D

SDG No.: 40151804

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<56.9	<56.9		0-40
PCB-1221 (Aroclor 1221)	<56.9	<56.9		0-40
PCB-1232 (Aroclor 1232)	<56.9	<56.9		0-40
PCB-1242 (Aroclor 1242)	<56.9	<56.9		0-40
PCB-1248 (Aroclor 1248)	1040	786	28	0-40
PCB-1254 (Aroclor 1254)	1000	746	29	0-40
PCB-1260 (Aroclor 1260)	510	375	31	0-40

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/12/2018

Instrument 40GCSJ

Lab Sample ID: ND2-170613-01-SMB-02

Duplicate Sample No: 40151804007DUP

Date Analyzed: 03/13/2018

Lab File ID: 031318.B\031318031.D

SDG No.: 40151804

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<170	<171		0-40
PCB-1221 (Aroclor 1221)	<170	<171		0-40
PCB-1232 (Aroclor 1232)	<170	<171		0-40
PCB-1242 (Aroclor 1242)	<170	<171		0-40
PCB-1248 (Aroclor 1248)	2530	2760	9	0-40
PCB-1254 (Aroclor 1254)	2420	2660	9	0-40
PCB-1260 (Aroclor 1260)	693J	792		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/22/2018

Instrument 40GCSJ

Lab Sample ID: 40151619002

Duplicate Sample No: 40151619002DUP

Date Analyzed: 03/23/2018

Lab File ID: 032318.B\032318019.D

SDG No.: 40151804

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

RPD: 0 out of 2 outside limits.

SAMPLE NO.

1655661BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151804 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1655661

Lab File ID: 031318.B\031318006.D Date Analyzed: 03/13/2018 Time:14:50

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1655662LCS	1655662	031318.B\031318007.D	03/13/2018 15:05
1655664DUP	1655664	031318.B\031318010.D	03/13/2018 15:53
ND2-170613-01-SMB-05	40151804004	031318.B\031318025.D	03/13/2018 19:50
ND2-170613-01-SMB-03	40151804006	031318.B\031318027.D	03/13/2018 20:22
ND2-170613-01-SMB-02	40151804007	031318.B\031318030.D	03/13/2018 21:09
1655665DUP	1655665	031318.B\031318031.D	03/13/2018 21:25
ND2-170613-01-SMB-01	40151804008	031318.B\031318032.D	03/13/2018 21:41
ND2-170613-01-SMB-04	40151804005	032018.B\032018010.D	03/20/2018 14:54

SAMPLE NO.

1662163BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151804 Contract: HUDSON RIVER REMEDIAL

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

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

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1662164LCS	1662164	032318.B\032318007.D	03/23/2018 14:13
1662166DUP	1662166	032318.B\032318019.D	03/23/2018 17:23
ND2-170613-01-YP-03	40151804001	032318.B\032318026.D	03/23/2018 19:14
ND2-170613-01-YP-01	40151804003	032318.B\032318030.D	03/23/2018 20:17
ND1-170613-01-YP-05	40151804009	032318.B\032318031.D	03/23/2018 20:33
ND1-170613-01-YP-04	40151804010	032318.B\032318032.D	03/23/2018 20:49
ND2-170613-01-YP-02	40151804002	040518.B\040518007.D	04/05/2018 14:55

SAMPLE NO.

ND2-170613-01-YP-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151804001
Date Analyzed: 03/23/2018 19:14
Lab File ID: 032318.B\032318026.D
Initial wt/vol: 9.9711 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)	173	
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)	847	
11097-69-1	PCB-1254 (Aroclor 1254)	442	
11096-82-5	PCB-1260 (Aroclor 1260)	83.0	J
1336-36-3	PCB, Total	1550	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318026.D
Lab Smp Id: 40151804001 Client Smp ID: ND2-170613-01-YP-03
Inj Date : 23-MAR-2018 19:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804001 x3,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.164	13285	8763	0.660	0.02			
2.410	211703	165457	0.782	0.37		1 Aroclor 1221	BA
2.484	3481412	3274547	0.941	6.13	$	2 Tetrachloro-m-xylene	BA
2.683	17554	14515	0.827	0.03		1 Aroclor 1221	BA
2.790	34916	26140	0.749	0.06		1 Aroclor 1221	BA
2.850	97977	81328	0.830	0.17		1 Aroclor 1221	BA
2.974	24904	22195	0.891	0.04			
2.985	29513	25728	0.872	0.05			
3.020	32323	31586	0.977	0.05			
3.054	372981	345509	0.926	0.65			
3.317	184192	177599	0.964	0.32			
3.344	310609	291279	0.938	0.54			
3.433	550362	524487	0.953	0.97			
3.519	608791	580684	0.954	1.07			
3.647	85039	73395	0.863	0.14			
3.731	332579	324872	0.977	0.58			
3.755	138791	132982	0.958	0.24			
3.813	1428361	809704	0.567	2.51			
3.939	425087	352261	0.829	0.74			
3.993	428840	407482	0.950	0.75			
4.057	183436	175496	0.957	0.32			
4.136	43193	39113	0.906	0.07			
4.214	2215338	1969419	0.889	3.90			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	2176984	2053575	0.943	3.83	6 Aroclor 1248
4.292	2955141	2522510	0.854	5.21	
4.349	39781	28897	0.726	0.07	
4.416	916531	837036	0.913	1.61	
4.452	809368	746703	0.923	1.42	
4.545	1844807	1729862	0.938	3.25	6 Aroclor 1248
4.588	214360	207140	0.966	0.37	
4.617	199527	176429	0.884	0.35	
4.679	183625	159387	0.868	0.32	
4.736	235118	186639	0.794	0.41	
4.767	427591	412951	0.966	0.75	
4.811	1185612	1150035	0.970	2.09	6 Aroclor 1248
4.846	857796	843224	0.983	1.51	
4.879	2843493	1578238	0.555	5.01	6 Aroclor 1248
4.955	641338	578977	0.903	1.13	
5.036	1057238	990690	0.937	1.86	6 Aroclor 1248
5.100	1210877	1067503	0.882	2.13	
5.160	1625125	1402400	0.863	2.86	7 Aroclor 1254
5.211	1415422	1258295	0.889	2.49	
5.282	188805	184767	0.979	0.33	
5.307	366851	307980	0.840	0.64	
5.361	515448	466433	0.905	0.90	
5.405	1214024	1090526	0.898	2.14	7 Aroclor 1254
5.445	811622	689662	0.850	1.43	
5.477	197829	179109	0.905	0.34	
5.508	2203674	1946765	0.883	3.88	7 Aroclor 1254
5.575	102591	93752	0.914	0.18	
5.602	316940	272002	0.858	0.55	
5.674	595068	549449	0.923	1.04	
5.708	369084	299823	0.812	0.65	
5.740	472892	364758	0.771	0.83	
5.789	2459160	1965839	0.799	4.33	
5.884	292163	232547	0.796	0.51	
5.930	236291	183999	0.779	0.41	
5.992	456461	418222	0.916	0.80	
6.024	1267766	1090037	0.860	2.23	7 Aroclor 1254
6.055	1345178	1144348	0.851	2.37	
6.167	365765	222372	0.608	0.64	
6.225	134801	148278	1.100	0.23	
6.241	219424	173449	0.790	0.38	
6.301	2153762	1717626	0.798	3.79	7 Aroclor 1254
6.332	213177	202465	0.950	0.37	
6.371	104263	81794	0.784	0.18	
6.430	271233	223156	0.823	0.47	
6.508	553475	513687	0.928	0.97	
6.534	384825	344642	0.896	0.67	
6.559	155949	144878	0.929	0.27	
6.603	72810	56843	0.781	0.12	
6.660	45119	36286	0.804	0.07	
6.716	192531	168177	0.874	0.33	
6.755	256613	218259	0.851	0.45	
6.798	289817	254321	0.878	0.51	
6.837	118384	95122	0.804	0.20	
6.911	27162	25496	0.939	0.04	
6.940	131052	118881	0.907	0.23	
7.003	453094	417520	0.921	0.79	8 Aroclor 1260
7.034	40482	45271	1.118	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.120	24400	19802	0.812	0.04	
7.249	263952	238221	0.903	0.46	8 Aroclor 1260
7.281	101599	81904	0.806	0.17	
7.335	16924	13619	0.805	0.02	
7.388	179864	154775	0.861	0.31	
7.440	202712	162361	0.801	0.35	8 Aroclor 1260
7.690	58388	49431	0.847	0.10	
7.726	57564	43492	0.756	0.10	
7.798	45485	24014	0.528	0.08	
7.898	134093	113823	0.849	0.23	8 Aroclor 1260
7.959	22720	16248	0.715	0.04	
8.048	40458	29013	0.717	0.07	
8.273	108600	99494	0.916	0.19	
8.568	3744429	3236389	0.864	7.07	$ 12 Decachlorobiphenyl
9.164	23734	17720	0.747	0.04	
	56711422	48773879		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318026.D
Lab Smp Id: 40151804001 Client Smp ID: ND2-170613-01-YP-03
Inj Date : 23-MAR-2018 19:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804001 x3,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.971	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	211703	0.38643	580	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	17553	0.01269	19	0.00- 20.00	0.00	BA
2.789	2.789	0.000	34915	0.03158	48	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	97976	0.03010	45	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					170			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3481412	0.02824	42		(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         2176984 0.92915     1400   0.00-  20.00   100.00(M)      BA
4.544    4.546   -0.002         1844807 0.44450      670   0.00-  20.00    84.74         BA
4.811    4.812   -0.001         1185611 0.58402      880   0.00-  20.00    54.46         BA
4.878    4.879   -0.001         2843492 0.56447      850   0.00-  20.00   130.62         BA
5.035    5.038   -0.003         1057237 0.29461      440   0.00-  20.00    48.56         BA
               Average of Peak Concentrations =      850
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.159    5.162   -0.003         1625125 0.31042      470   0.00-  20.00   100.00(M)      BA
5.405    5.408   -0.003         1214023 0.28226      420   0.00-  20.00    74.70         BA
5.508    5.510   -0.002         2203674 0.28376      430   0.00-  20.00   135.60         BA
6.023    6.027   -0.004         1267766 0.26034      390   0.00-  20.00    78.01         BA
6.300    6.299    0.001         2153762 0.33099      500   0.00-  20.00   132.53         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
7.003    7.006   -0.003          453094 0.04524       68   0.00-  20.00    22.89         CO
7.249    7.251   -0.002          263952 0.05522       83   0.00-  20.00    12.26         CO
7.439    7.443   -0.004          202712 0.06954      100   0.00-  20.00     9.41         CO
7.898    7.901   -0.003          134092 0.05082       76   0.00-  20.00     6.23         CO
               Average of Peak Concentrations =       83
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.568    8.571   -0.003         3744428 0.03418       51
-------------------------------------------------------------------------------
```

QC Flag Legend

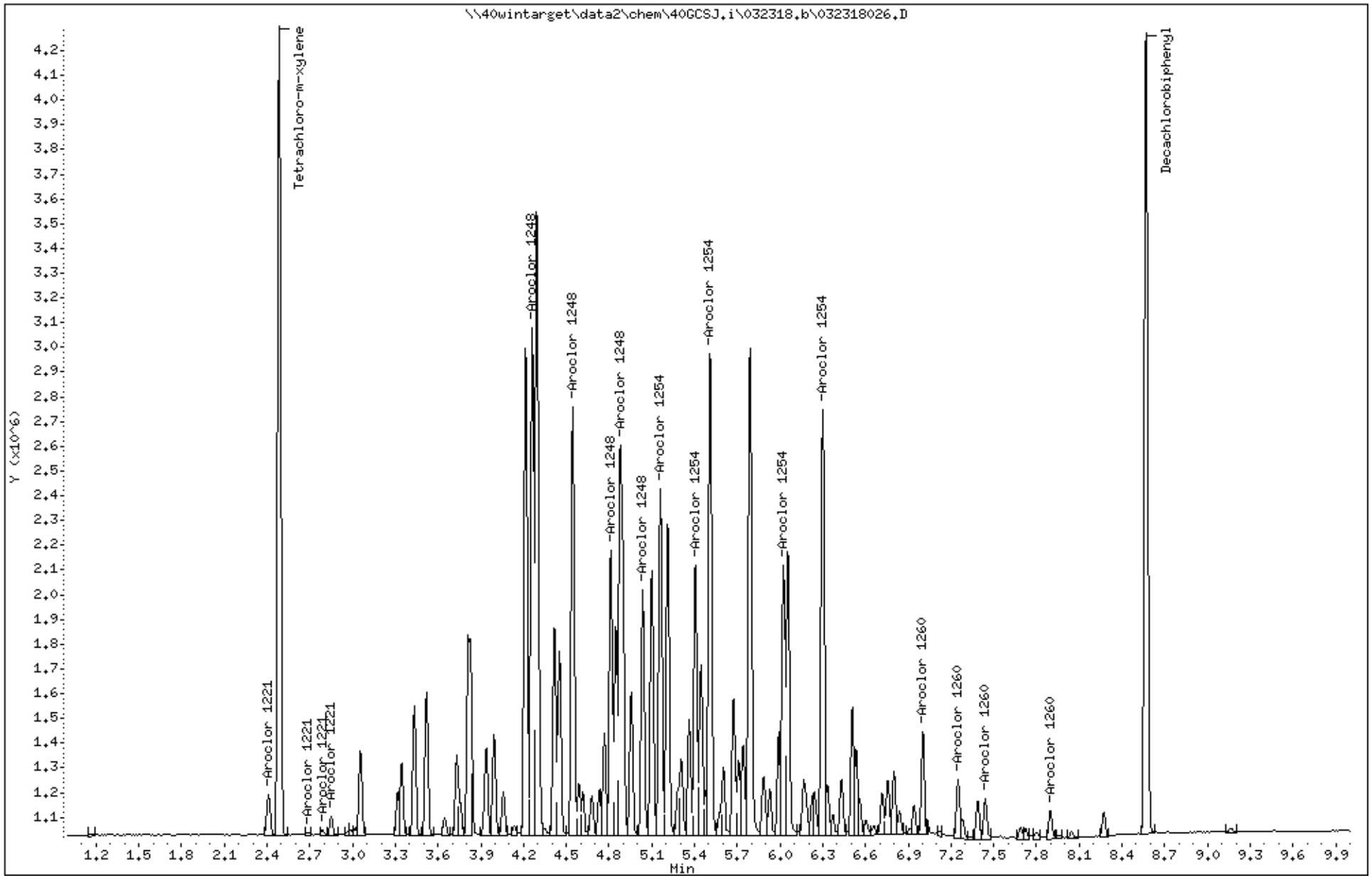
M - Compound response manually integrated.

Review Codes Legend

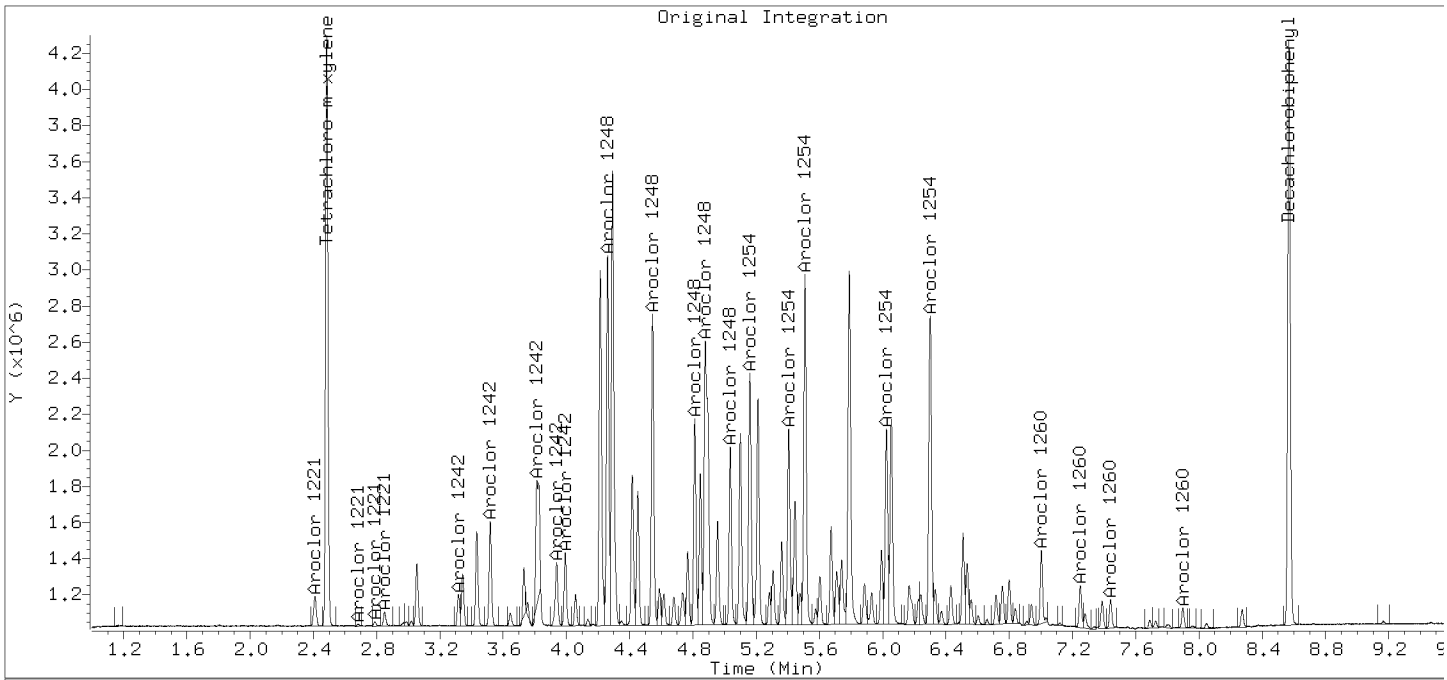
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

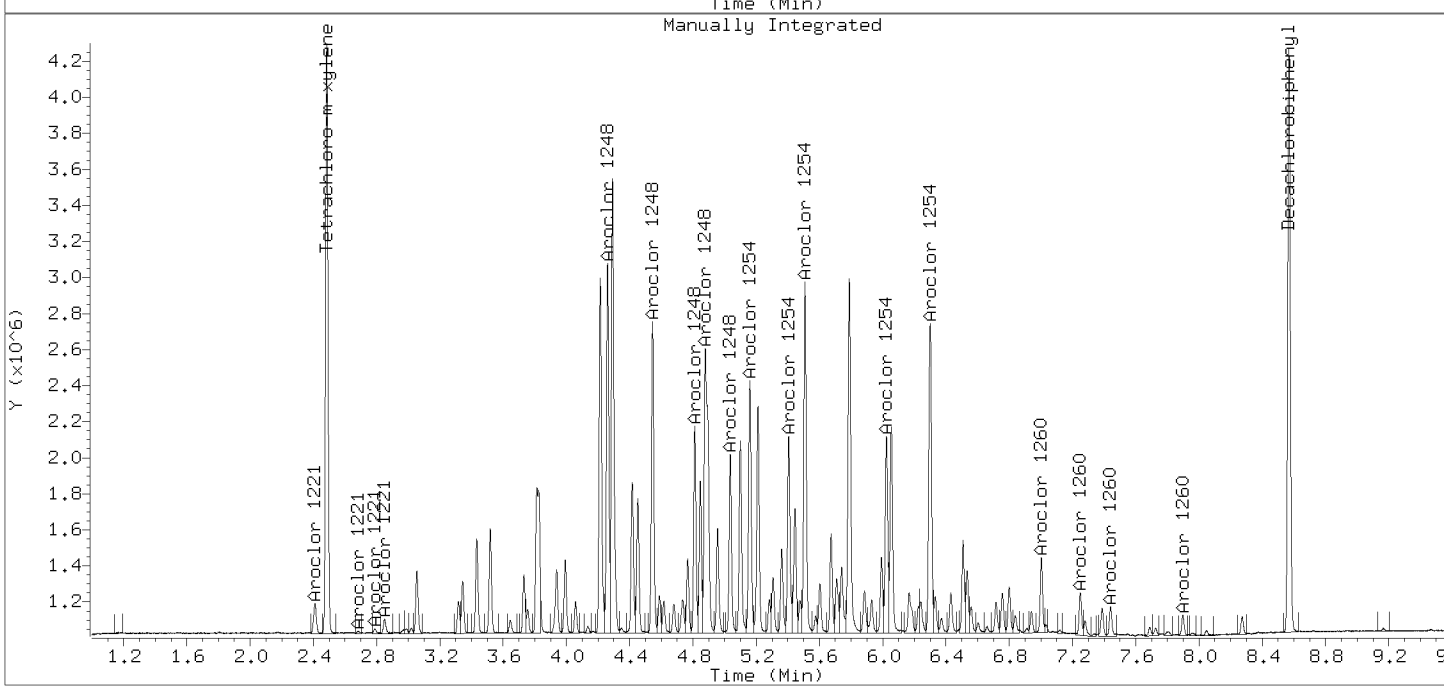
Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318026.D
Date : 23-MAR-2018 19:14
Client ID: ND2-170613-01-YP-03
Sample Info: 40151804001 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 19:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	180597	0	
Aroclor 1016	180597	0	
Aroclor 1016	180597	0	
Aroclor 1016	180597	0	
Aroclor 1016	180597	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	93484	0	
Aroclor 1232	93484	0	
Aroclor 1232	93484	0	
Aroclor 1232	93484	0	

Aroclor 1232	93484	0	
Aroclor 1242	180597	0	
Aroclor 1242	180597	0	
Aroclor 1242	180597	0	
Aroclor 1242	180597	0	
Aroclor 1242	180597	0	
Aroclor 1248	2166011	2176984	BA
Aroclor 1248	2166011	2176984	BA
Aroclor 1248	2166011	2176984	BA
Aroclor 1248	2166011	2176984	BA
Aroclor 1248	2166011	2176984	BA
Aroclor 1254	1605283	1625125	BA
Aroclor 1254	1605283	1625125	BA
Aroclor 1254	1605283	1625125	BA
Aroclor 1254	1605283	1625125	BA
Aroclor 1254	1605283	1625125	BA
Aroclor 1260	2127807	0	CO
Aroclor 1260	2127807	0	CO
Aroclor 1260	2127807	0	CO
Aroclor 1260	2127807	0	CO
Aroclor 1260	2127807	0	CO
Tetrachloro-m-xylene	3470017	3481412	BA
Decachlorobiphenyl	3744428	3744428	

==========

SAMPLE NO.

ND2-170613-01-YP-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151804002
Date Analyzed: 04/05/2018 14:55
Lab File ID: 040518.B\040518007.D
Initial wt/vol: 9.9758 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	181	
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	240	
11097-69-1	PCB-1254 (Aroclor 1254)	142	
11096-82-5	PCB-1260 (Aroclor 1260)	55.5	J
1336-36-3	PCB, Total	619	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518007.D
Lab Smp Id: 40151804002 Client Smp ID: ND2-170613-01-YP-02
Inj Date : 05-APR-2018 14:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804002 x2,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.805	21051	14416	0.685	0.05		1 Aroclor 1221	BA
2.411	450364	353036	0.784	1.27		1 Aroclor 1221	BA
2.484	4491316	4265816	0.950	12.69	$	2 Tetrachloro-m-xylene	BA
2.686	21601	13434	0.622	0.06		1 Aroclor 1221	BA
2.790	30212	21019	0.696	0.08		1 Aroclor 1221	BA
2.852	64243	49396	0.769	0.18		1 Aroclor 1221	BA
2.973	17160	11044	0.644	0.04			
3.055	468448	431465	0.921	1.32			
3.316	85810	82191	0.958	0.24			
3.344	145850	132783	0.910	0.41			
3.433	544275	516616	0.949	1.53			
3.519	338568	305924	0.904	0.95			
3.646	69395	60081	0.866	0.19			
3.731	221736	214787	0.969	0.62			
3.755	65916	65458	0.993	0.18			
3.814	680133	393526	0.579	1.92			
3.939	270305	236333	0.874	0.76			
3.993	230255	211451	0.918	0.65			
4.059	92992	80879	0.870	0.26			
4.136	28449	19789	0.696	0.08			
4.215	1125102	976710	0.868	3.17			
4.261	1035784	980165	0.946	2.92		6 Aroclor 1248	BA
4.292	1336821	1134660	0.849	3.77			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.349	30368	21355	0.703	0.08	
4.418	387188	359994	0.930	1.09	
4.453	347204	310544	0.894	0.98	
4.545	781297	731660	0.936	2.20	6 Aroclor 1248
4.589	117569	106480	0.906	0.33	
4.617	98159	81557	0.831	0.27	
4.679	98452	81585	0.829	0.27	
4.736	123139	103386	0.840	0.34	
4.768	180367	163575	0.907	0.50	
4.813	456264	419800	0.920	1.28	6 Aroclor 1248
4.848	321792	304978	0.948	0.90	
4.894	1203484	587729	0.488	3.40	6 Aroclor 1248
4.956	319418	272615	0.853	0.90	
5.037	369459	322846	0.874	1.04	6 Aroclor 1248
5.100	610409	526201	0.862	1.72	
5.161	811566	685241	0.844	2.29	7 Aroclor 1254
5.212	679246	581454	0.856	1.91	
5.283	96232	92919	0.966	0.27	
5.306	199610	168679	0.845	0.56	
5.362	226206	201040	0.889	0.63	
5.406	546692	484596	0.886	1.54	7 Aroclor 1254
5.447	358907	295101	0.822	1.01	
5.478	93310	85500	0.916	0.26	
5.509	1006350	910714	0.905	2.84	7 Aroclor 1254
5.576	71774	63405	0.883	0.20	
5.603	132078	109490	0.829	0.37	
5.675	390527	347003	0.889	1.10	
5.710	190745	154738	0.811	0.53	
5.742	237666	182223	0.767	0.67	
5.790	1192888	914057	0.766	3.37	
5.887	147834	109660	0.742	0.41	
5.931	154879	127966	0.826	0.43	
5.993	305922	274077	0.896	0.86	
6.026	505875	433559	0.857	1.42	7 Aroclor 1254
6.054	837694	715004	0.854	2.36	
6.169	216027	124616	0.577	0.61	
6.227	67564	80941	1.198	0.19	
6.241	133719	98673	0.738	0.37	
6.301	1243666	1017906	0.818	3.51	7 Aroclor 1254
6.333	104299	107694	1.033	0.29	
6.374	57977	48281	0.833	0.16	
6.432	217145	177981	0.820	0.61	
6.510	469648	397528	0.846	1.32	
6.534	201126	179717	0.894	0.56	
6.561	125082	113710	0.909	0.35	
6.604	38525	32561	0.845	0.10	
6.659	28792	24927	0.866	0.08	
6.716	119082	105093	0.883	0.33	
6.757	171216	148878	0.870	0.48	
6.803	165849	142703	0.860	0.46	
6.838	91816	80676	0.879	0.25	
6.911	23708	23370	0.986	0.06	
6.941	85425	77834	0.911	0.24	
7.004	387015	353606	0.914	1.09	8 Aroclor 1260
7.035	36894	38758	1.051	0.10	
7.121	17173	15273	0.889	0.04	
7.252	204632	175813	0.859	0.57	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	71742	60665	0.846	0.20	
7.389	212073	174747	0.824	0.59	
7.442	224091	191117	0.853	0.63	8 Aroclor 1260
7.690	70340	56808	0.808	0.19	
7.726	65996	58624	0.888	0.18	
7.799	47647	29991	0.629	0.13	
7.899	166232	142379	0.857	0.46	8 Aroclor 1260
7.958	25335	14120	0.557	0.07	
8.275	173840	147485	0.848	0.49	
8.570	4627103	3962557	0.856	13.55	$ 12 Decachlorobiphenyl
9.169	25339	19488	0.769	0.07	
	35382473	30326230		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518007.D
Lab Smp Id: 40151804002 Client Smp ID: ND2-170613-01-YP-02
Inj Date : 05-APR-2018 14:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804002 x2,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	21050	0.02022	20	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	450363	0.82207	820	0.00- 20.00	2139.49	BA
2.685	2.688	-0.003	21600	0.01561	16	0.00- 20.00	102.61	BA
2.789	2.789	0.000	30212	0.02732	27	0.00- 20.00	143.52	BA
2.851	2.851	0.000	64242	0.01973	20	0.00- 20.00	305.19	BA
Average of Peak Concentrations =					180			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	4491315	0.03643	36		(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	1035783	0.44208	440	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	781297	0.18825	190	0.00- 20.00	75.43	BA
4.812	4.812	0.000	456264	0.22475	220	0.00- 20.00	44.05	BA
4.893	4.879	0.014	1203484	0.23891	240	0.00- 20.00	116.19	BA
5.037	5.038	-0.001	369458	0.10295	100	0.00- 20.00	35.67	BA
Average of Peak Concentrations =					240			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	811566	0.15502	160	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	546692	0.12711	130	0.00- 20.00	67.36	CO
5.509	5.510	-0.001	1006350	0.12958	130	0.00- 20.00	124.00	CO
6.026	6.027	-0.001	505875	0.10388	100	0.00- 20.00	62.33	CO
6.301	6.299	0.002	1243665	0.19112	190	0.00- 20.00	153.24	CO
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	387014	0.03865	39	0.00- 20.00	31.45	CO
7.252	7.251	0.001	204632	0.04281	43	0.00- 20.00	15.20	CO
7.441	7.443	-0.002	224090	0.07687	77	0.00- 20.00	16.65	CO
7.899	7.901	-0.002	166232	0.06300	63	0.00- 20.00	12.35	CO
Average of Peak Concentrations =					55			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	4627103	0.04223	42			

QC Flag Legend

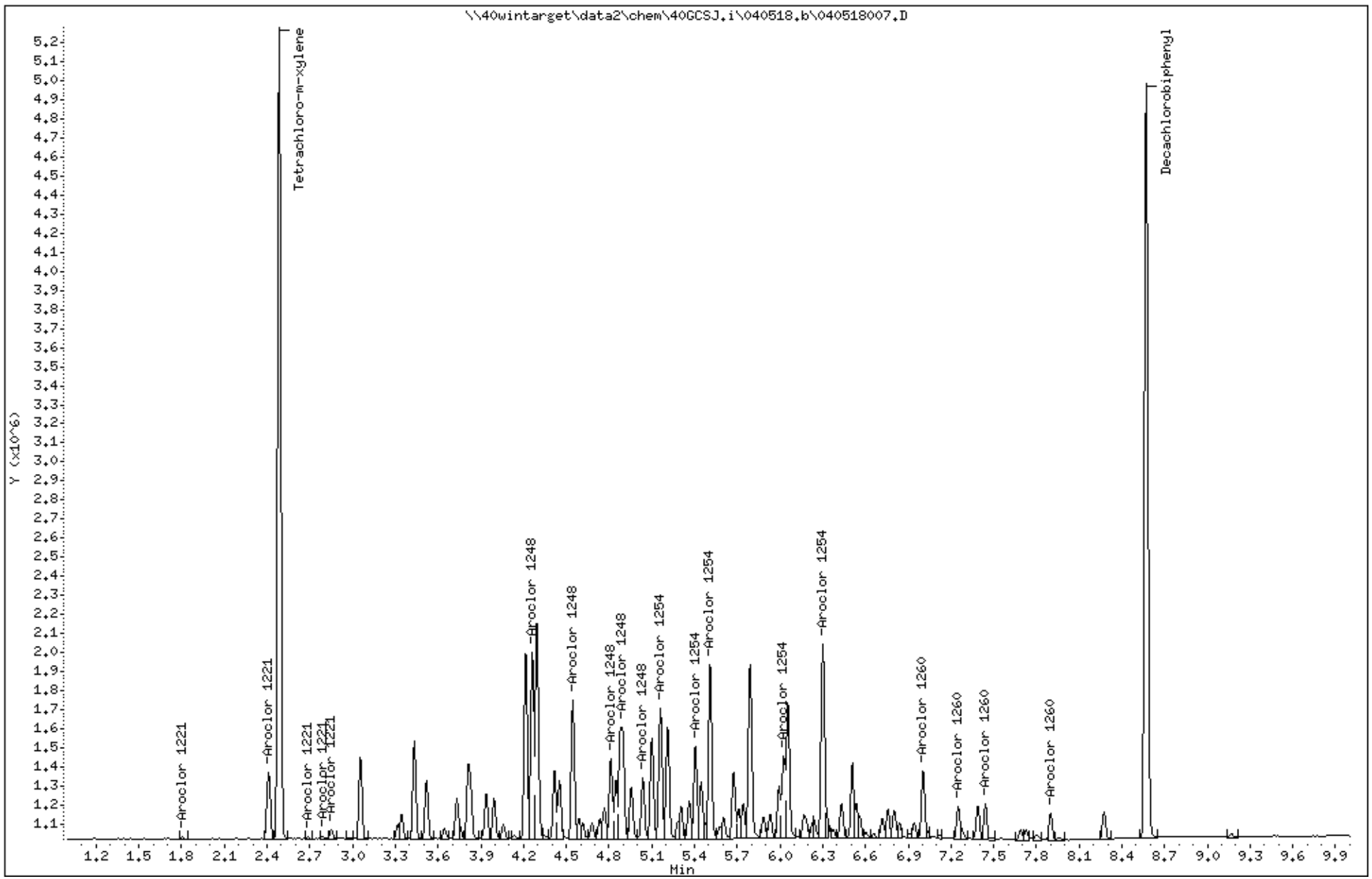
M - Compound response manually integrated.

Review Codes Legend

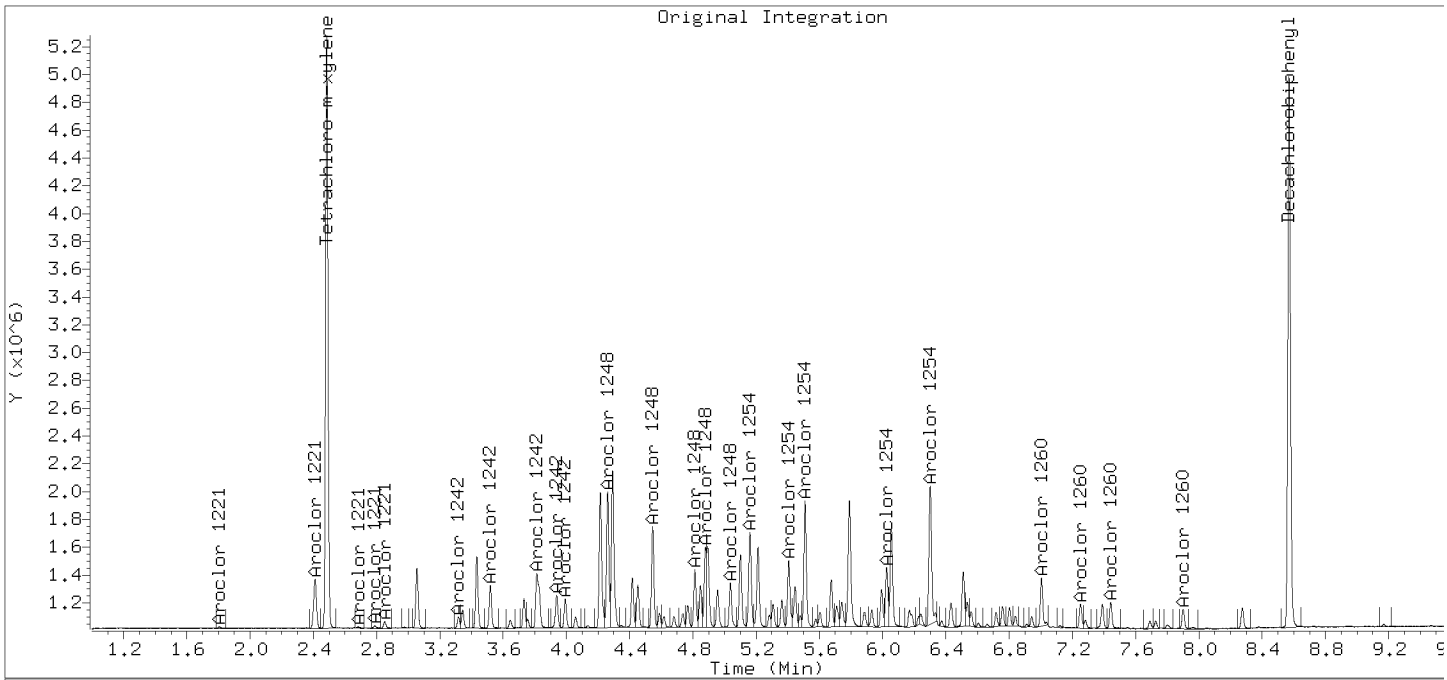
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

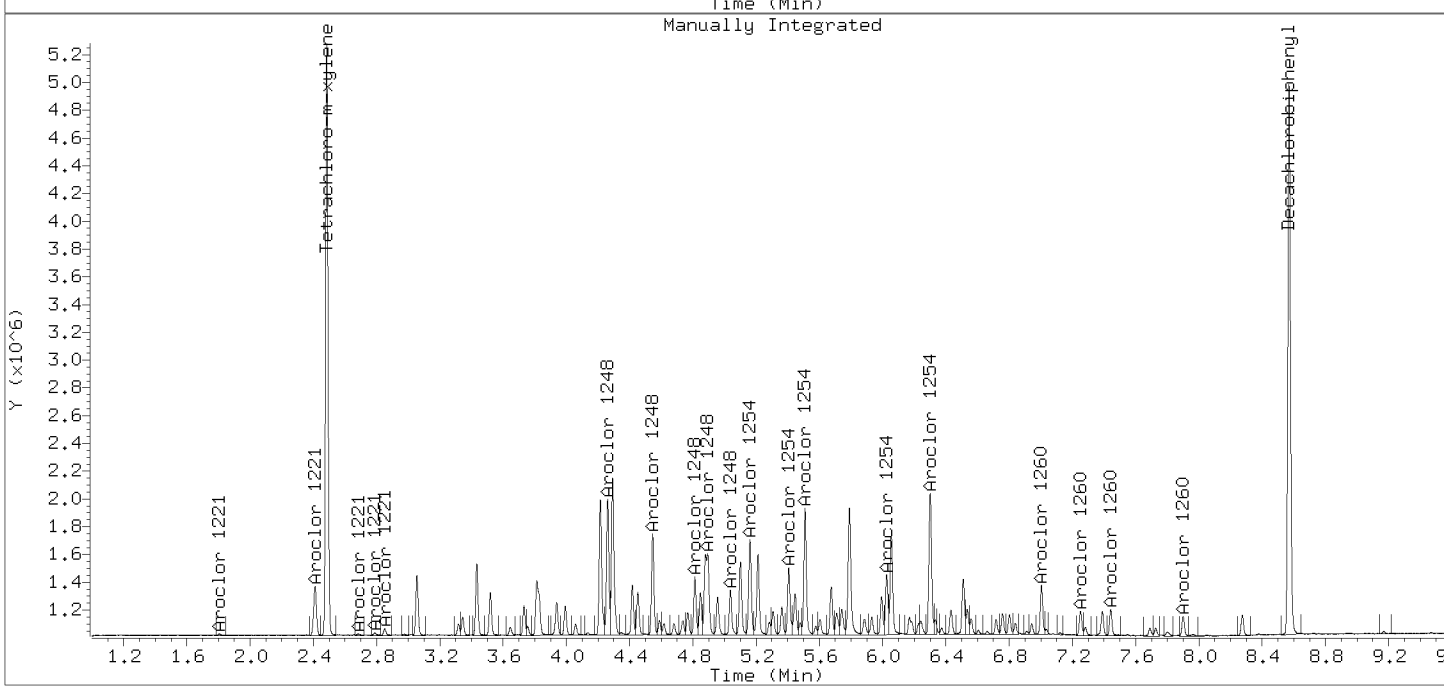
Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518007.D
Date : 05-APR-2018 14:55
Client ID: ND2-170613-01-YP-02
Sample Info: 40151804002 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b/040518007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 05-APR-2018 14:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	84238	0	
Aroclor 1016	84238	0	
Aroclor 1016	84238	0	
Aroclor 1016	84238	0	
Aroclor 1016	84238	0	
Aroclor 1221	18563	21050	BA
Aroclor 1221	18563	21050	BA
Aroclor 1221	18563	21050	BA
Aroclor 1221	18563	21050	BA
Aroclor 1221	18563	21050	BA
Aroclor 1232	57365	0	
Aroclor 1232	57365	0	
Aroclor 1232	57365	0	
Aroclor 1232	57365	0	

Aroclor 1232	57365	0	
Aroclor 1242	84238	0	
Aroclor 1242	84238	0	
Aroclor 1242	84238	0	
Aroclor 1242	84238	0	
Aroclor 1242	84238	0	
Aroclor 1248	1025155	1035783	BA
Aroclor 1248	1025155	1035783	BA
Aroclor 1248	1025155	1035783	BA
Aroclor 1248	1025155	1035783	BA
Aroclor 1248	1025155	1035783	BA
Aroclor 1254	797725	811566	CO
Aroclor 1254	797725	811566	CO
Aroclor 1254	797725	811566	CO
Aroclor 1254	797725	811566	CO
Aroclor 1254	797725	811566	CO
Aroclor 1260	1232088	0	CO
Aroclor 1260	1232088	0	CO
Aroclor 1260	1232088	0	CO
Aroclor 1260	1232088	0	CO
Aroclor 1260	1232088	0	CO
Tetrachloro-m-xylene	4476249	4491315	BA
Decachlorobiphenyl	4627103	4627103	

==========

SAMPLE NO.

ND2-170613-01-YP-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151804003
Date Analyzed: 03/23/2018 20:17
Lab File ID: 032318.B\032318030.D
Initial wt/vol: 9.9638 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	522	
11097-69-1	PCB-1254 (Aroclor 1254)	361	
11096-82-5	PCB-1260 (Aroclor 1260)	67.0	J
1336-36-3	PCB, Total	949	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318030.D
Lab Smp Id: 40151804003 Client Smp ID: ND2-170613-01-YP-01
Inj Date : 23-MAR-2018 20:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804003 x2,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
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	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	55321	35250	0.637	0.09		
2.015	33020	22482	0.681	0.05		
2.411	136330	106939	0.784	0.22		
2.484	5137045	4658583	0.907	8.93	$ 2 Tetrachloro-m-xylene	
2.787	18499	14910	0.806	0.03		
2.853	29972	21924	0.731	0.04		
2.975	35191	17131	0.487	0.05		
3.023	31806	26600	0.836	0.05		
3.055	171125	155579	0.909	0.28		
3.317	55170	52593	0.953	0.09		
3.344	81929	75009	0.916	0.13		
3.433	231515	213701	0.923	0.37		
3.519	263277	251062	0.954	0.43		
3.645	40216	32252	0.802	0.06		
3.731	146605	142381	0.971	0.24		
3.755	76275	70854	0.929	0.12		
3.826	920078	568239	0.618	1.50		
3.938	186811	148237	0.794	0.30		
3.992	320498	291644	0.910	0.52		
4.057	138300	124712	0.902	0.22		
4.137	23933	20974	0.876	0.03		
4.214	1693745	1513751	0.894	2.77		
4.260	1735934	1603753	0.924	2.84	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.291	2151453	1862175	0.866	3.52	
4.347	33136	23278	0.702	0.05	
4.415	884792	848504	0.959	1.45	
4.451	745802	691437	0.927	1.22	
4.545	1502460	1394511	0.928	2.46	6 Aroclor 1248
4.588	146831	136866	0.932	0.24	
4.616	181592	160793	0.885	0.29	
4.678	150217	126374	0.841	0.24	
4.735	225086	171828	0.763	0.36	
4.767	329802	306378	0.929	0.54	
4.812	1164620	1109276	0.952	1.90	6 Aroclor 1248
4.847	922913	901425	0.977	1.51	
4.877	2978897	1741000	0.584	4.88	6 Aroclor 1248
4.956	625494	561551	0.898	1.02	
5.035	1185624	1118998	0.944	1.94	6 Aroclor 1248
5.100	1172169	1016002	0.867	1.92	
5.161	2009392	1733295	0.863	3.29	7 Aroclor 1254
5.211	1642192	1434495	0.874	2.69	
5.282	182768	180266	0.986	0.29	
5.306	356752	300802	0.843	0.58	
5.362	669850	613840	0.916	1.09	
5.405	1432786	1270659	0.887	2.34	7 Aroclor 1254
5.445	930413	820470	0.882	1.52	
5.476	193420	176909	0.915	0.31	
5.508	2697404	2435107	0.903	4.42	7 Aroclor 1254
5.576	116640	105134	0.901	0.19	
5.603	399908	343461	0.859	0.65	
5.674	696311	638831	0.917	1.14	
5.710	466579	352900	0.756	0.76	
5.740	569413	428666	0.753	0.93	
5.789	3232684	2488523	0.770	5.30	
5.884	359740	265102	0.737	0.58	
5.929	239187	182688	0.764	0.39	
5.992	558489	514380	0.921	0.91	
6.023	1622511	1386722	0.855	2.66	7 Aroclor 1254
6.054	1717766	1493080	0.869	2.81	
6.116	35767	19429	0.543	0.05	
6.166	534523	328085	0.614	0.87	
6.225	194277	203235	1.046	0.31	
6.239	267743	213119	0.796	0.43	
6.299	2600838	2138860	0.822	4.26	7 Aroclor 1254
6.331	299834	267522	0.892	0.49	
6.370	153179	119926	0.783	0.25	
6.430	317603	251587	0.792	0.52	
6.481	22758	28019	1.231	0.03	
6.507	838821	756075	0.901	1.37	
6.533	408634	395555	0.968	0.66	
6.558	228883	205659	0.899	0.37	
6.604	109715	80109	0.730	0.17	
6.659	72352	57884	0.800	0.11	
6.715	300736	245930	0.818	0.49	
6.756	317348	267901	0.844	0.52	
6.799	401705	356624	0.888	0.65	
6.837	177622	128388	0.723	0.29	
6.908	43813	35918	0.820	0.07	
6.939	139234	126244	0.907	0.22	
7.003	605961	535984	0.885	0.99	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.035	72546	65446	0.902	0.11	
7.074	12615	13786	1.093	0.02	
7.119	45988	25786	0.561	0.07	
7.249	309010	276475	0.895	0.50	8 Aroclor 1260
7.280	133842	106810	0.798	0.21	
7.338	19403	15582	0.803	0.03	
7.388	249120	216100	0.867	0.40	
7.440	257837	227317	0.882	0.42	8 Aroclor 1260
7.466	25252	14125	0.559	0.04	
7.549	15918	16335	1.026	0.02	
7.622	16845	10367	0.615	0.02	
7.689	63068	61095	0.969	0.10	
7.725	73031	60331	0.826	0.11	
7.768	22892	17191	0.751	0.03	
7.798	48924	30890	0.631	0.08	
7.897	141109	121599	0.862	0.23	8 Aroclor 1260
7.958	24990	16975	0.679	0.04	
8.047	27893	23516	0.843	0.04	
8.272	140324	120862	0.861	0.23	
8.376	23913	18090	0.756	0.03	
8.568	5060102	4289436	0.848	8.29	$ 12 Decachlorobiphenyl
8.939	20375	13380	0.657	0.03	
9.165	19423	17792	0.916	0.03	
9.463	19013	14875	0.782	0.03	
9.957	17831	13090	0.734	0.02	
	60990299	52073590		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318030.D
Lab Smp Id: 40151804003 Client Smp ID: ND2-170613-01-YP-01
Inj Date : 23-MAR-2018 20:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804003 x2,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
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	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5137044	0.04166	42			
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	1735934	0.74091	740	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1502459	0.36201	360	0.00- 20.00	86.55	BA
4.812	4.812	0.000	1164619	0.57368	580	0.00- 20.00	67.09	BA
4.877	4.879	-0.002	2978896	0.59135	590	0.00- 20.00	171.60	BA
5.035	5.038	-0.003	1185624	0.33039	330	0.00- 20.00	68.30	BA
Average of Peak Concentrations =					520			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2009392	0.38382	380	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1432785	0.33312	330	0.00- 20.00	71.30	BA
5.508	5.510	-0.002	2697403	0.34733	350	0.00- 20.00	134.24	BA
6.023	6.027	-0.004	1622511	0.33319	330	0.00- 20.00	80.75	BA
6.299	6.299	0.000	2600837	0.39969	400	0.00- 20.00	129.43	BA
Average of Peak Concentrations =					360			
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	605961	0.06051	61	0.00- 20.00	23.30	CO
7.248	7.251	-0.003	309010	0.06465	65	0.00- 20.00	11.88	CO
7.440	7.443	-0.003	257837	0.08845	89	0.00- 20.00	10.88	CO
7.897	7.901	-0.004	141109	0.05348	54	0.00- 20.00	5.43	CO
Average of Peak Concentrations =					67			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.567	8.571	-0.004	5060101	0.04619	46			

QC Flag Legend

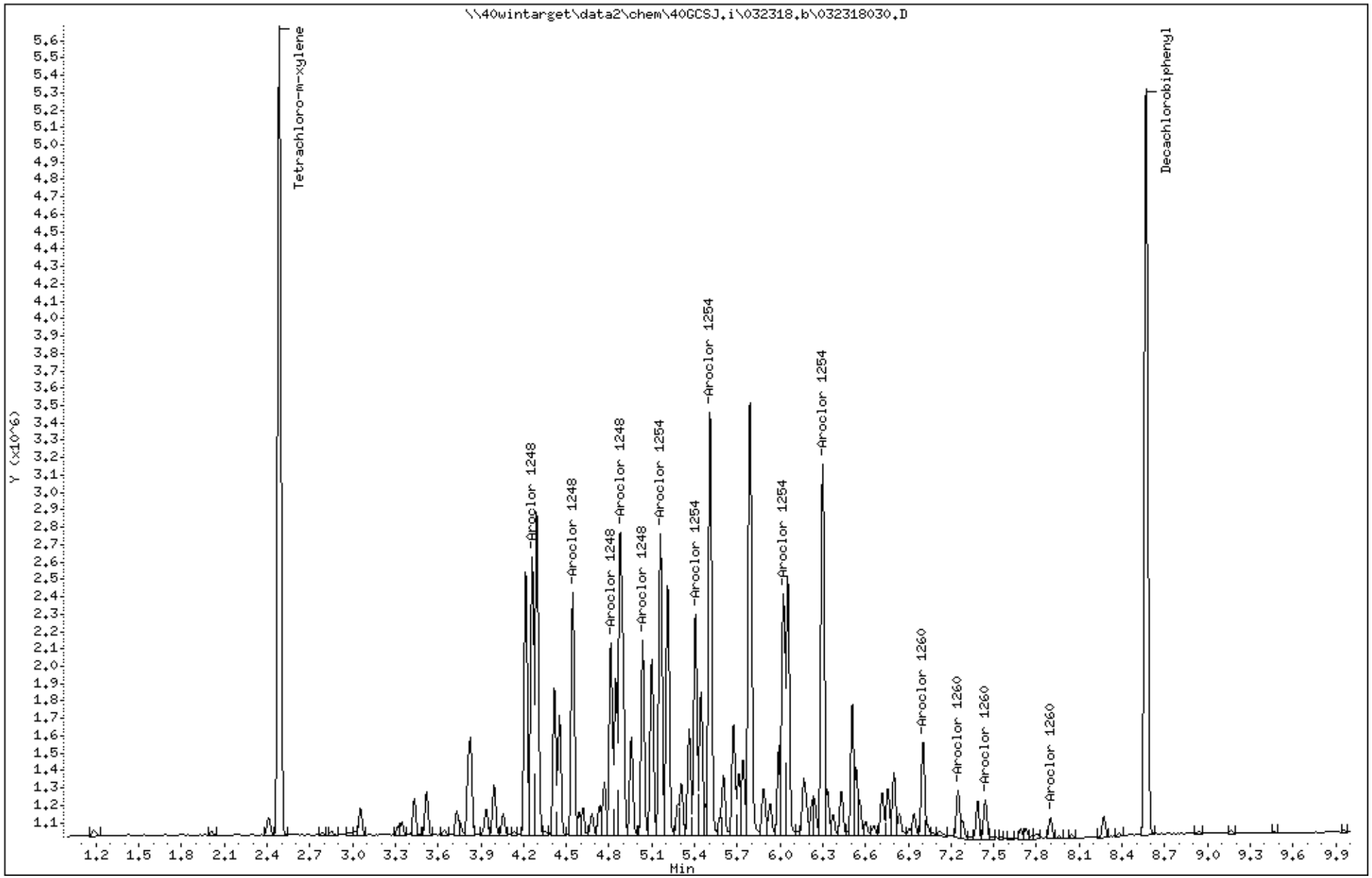
M - Compound response manually integrated.

Review Codes Legend

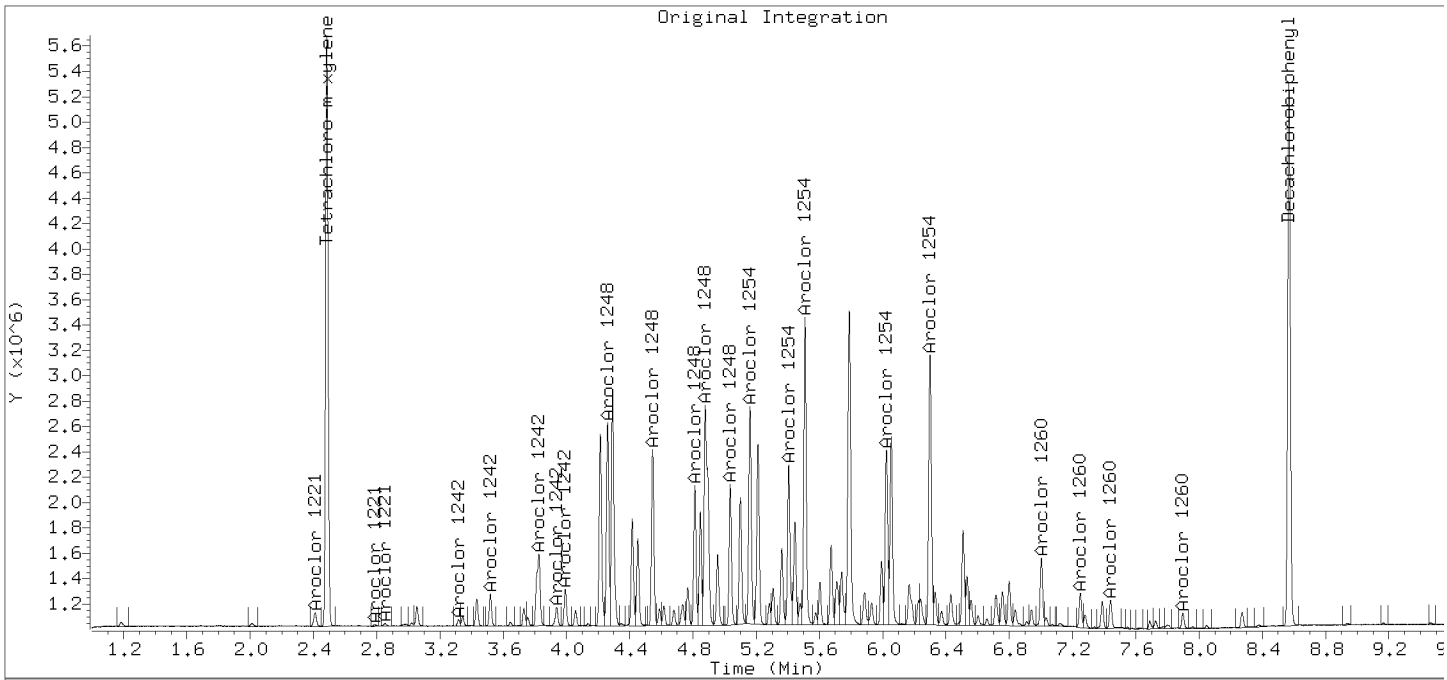
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

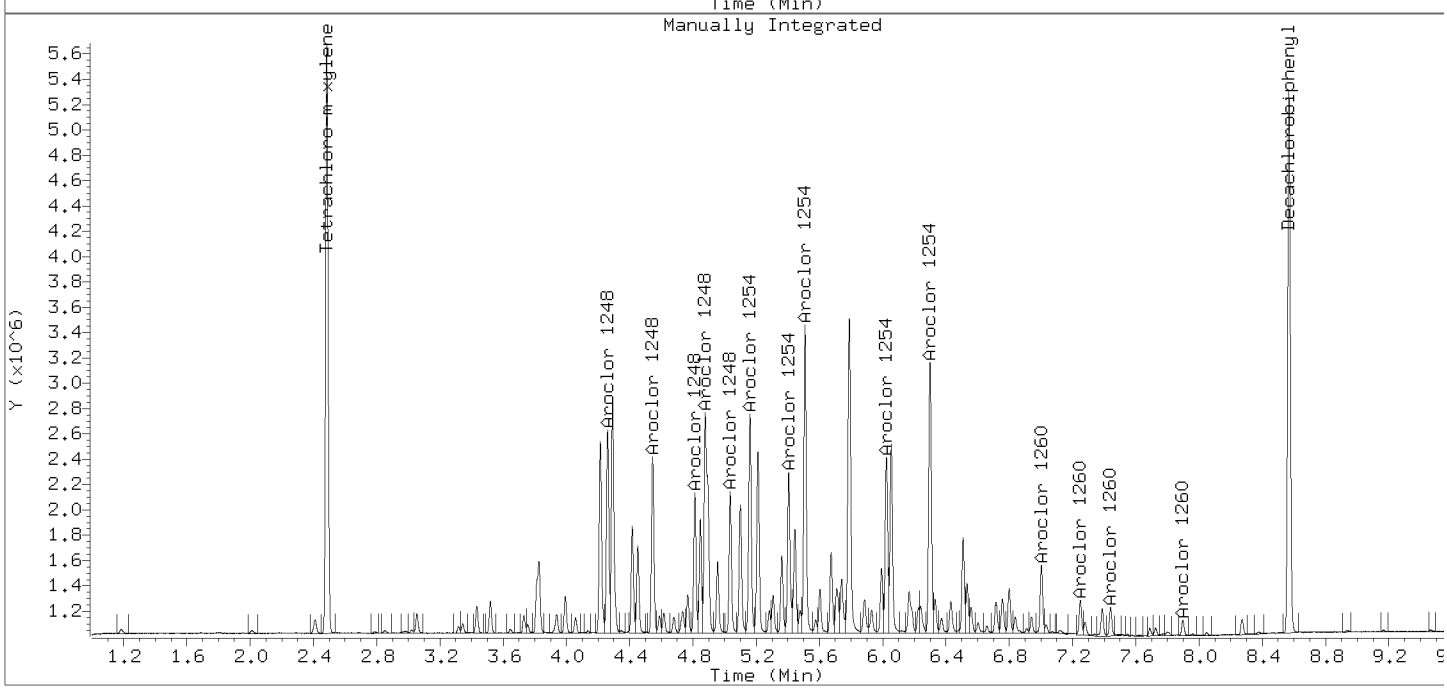
Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318030.D
Date : 23-MAR-2018 20:17
Client ID: ND2-170613-01-YP-01
Sample Info: 40151804003 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 20:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	55170	0	
Aroclor 1016	55170	0	
Aroclor 1016	55170	0	
Aroclor 1016	55170	0	
Aroclor 1016	55170	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	29972	0	
Aroclor 1232	29972	0	
Aroclor 1232	29972	0	
Aroclor 1232	29972	0	

Aroclor 1232	29972	0	
Aroclor 1242	55170	0	
Aroclor 1242	55170	0	
Aroclor 1242	55170	0	
Aroclor 1242	55170	0	
Aroclor 1242	55170	0	
Aroclor 1248	1727224	1735934	BA
Aroclor 1248	1727224	1735934	BA
Aroclor 1248	1727224	1735934	BA
Aroclor 1248	1727224	1735934	BA
Aroclor 1248	1727224	1735934	BA
Aroclor 1254	1941543	2009392	BA
Aroclor 1254	1941543	2009392	BA
Aroclor 1254	1941543	2009392	BA
Aroclor 1254	1941543	2009392	BA
Aroclor 1254	1941543	2009392	BA
Aroclor 1260	2573726	0	CO
Aroclor 1260	2573726	0	CO
Aroclor 1260	2573726	0	CO
Aroclor 1260	2573726	0	CO
Aroclor 1260	2573726	0	CO
Tetrachloro-m-xylene	5137044	5137044	
Decachlorobiphenyl	5060101	5060101	

==========

SAMPLE NO.

ND2-170613-01-SMB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/12/2018 07:42
Lab Sample ID: 40151804004
Date Analyzed: 03/13/2018 19:50
Lab File ID: 031318.B\031318025.D
Initial wt/vol: 10.0181 Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.1	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.1	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.1	U
12672-29-6	PCB-1248 (Aroclor 1248)	563	
11097-69-1	PCB-1254 (Aroclor 1254)	533	
11096-82-5	PCB-1260 (Aroclor 1260)	180	
1336-36-3	PCB, Total	1280	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318025.D
Lab Smp Id: 40151804004 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 19:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804004 x3,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	10839	8397	0.775	0.01		
2.411	75444	60828	0.806	0.13		
2.484	3588869	3509790	0.978	6.84	$ 2 Tetrachloro-m-xylene	
2.789	15717	13120	0.835	0.02		
2.849	31069	26144	0.841	0.05		
3.053	132634	124320	0.937	0.23		
3.318	58938	56673	0.962	0.10		
3.344	85182	83281	0.978	0.15		
3.434	198230	182838	0.922	0.35		
3.519	184369	173230	0.940	0.32		
3.646	26708	24538	0.919	0.04		
3.731	167445	164178	0.980	0.29		
3.755	60536	59828	0.988	0.10		
3.814	305019	321081	1.053	0.54		
3.937	216252	174039	0.805	0.38		
3.992	184160	172358	0.936	0.32		
4.058	67145	61721	0.919	0.11		
4.135	24536	19760	0.805	0.04		
4.214	1293400	1178882	0.911	2.30		
4.260	1438270	1402537	0.975	2.56	6 Aroclor 1248	BA
4.291	2143186	1886967	0.880	3.81		
4.346	30078	20553	0.683	0.05		
4.416	360943	345809	0.958	0.64		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	385297	349268	0.906	0.68	
4.545	988403	937022	0.948	1.76	6 Aroclor 1248
4.588	217469	201167	0.925	0.38	
4.616	88542	76839	0.868	0.15	
4.679	201473	179265	0.890	0.35	
4.735	284095	236685	0.833	0.50	
4.765	376742	356959	0.947	0.67	
4.812	872304	855813	0.981	1.55	6 Aroclor 1248
4.847	552394	544904	0.986	0.98	
4.878	2122090	1181655	0.557	3.78	6 Aroclor 1248
4.956	614038	547980	0.892	1.09	
5.036	640990	610201	0.952	1.14	6 Aroclor 1248
5.100	1247958	1137618	0.912	2.22	
5.160	1976876	1684951	0.852	3.52	7 Aroclor 1254
5.211	1671884	1466320	0.877	2.97	
5.283	225375	224084	0.994	0.40	
5.306	395812	340759	0.861	0.70	
5.362	571990	510564	0.893	1.01	
5.405	1347354	1219316	0.905	2.40	7 Aroclor 1254
5.445	977989	825803	0.844	1.74	
5.478	208642	194422	0.932	0.37	
5.508	2061727	1849542	0.897	3.67	7 Aroclor 1254
5.576	167623	155380	0.927	0.29	
5.603	265906	235854	0.887	0.47	
5.674	847717	814325	0.961	1.51	
5.708	445955	351131	0.787	0.79	
5.741	618052	486500	0.787	1.10	
5.788	3199856	2564266	0.801	5.70	
5.884	337250	261839	0.776	0.60	
5.930	380438	314615	0.827	0.67	
5.993	799802	729233	0.912	1.42	
6.024	1471055	1245600	0.847	2.62	7 Aroclor 1254
6.054	2144203	1862929	0.869	3.82	
6.168	556184	367495	0.661	0.99	
6.227	216899	233550	1.077	0.38	
6.241	338470	270183	0.798	0.60	
6.300	3396516	2805326	0.826	6.05	7 Aroclor 1254
6.332	317895	297082	0.935	0.56	
6.372	152069	138258	0.909	0.27	
6.431	476310	412472	0.866	0.84	
6.509	1132553	1069580	0.944	2.01	
6.533	604767	544332	0.900	1.07	
6.560	286146	273061	0.954	0.50	
6.603	114943	102484	0.892	0.20	
6.660	66269	63618	0.960	0.11	
6.716	367157	335628	0.914	0.65	
6.757	394652	345601	0.876	0.70	
6.801	481487	436686	0.907	0.85	
6.840	217244	184265	0.848	0.38	
6.913	57402	53898	0.939	0.10	
6.941	176999	168032	0.949	0.31	
7.003	1001230	935391	0.934	1.78	8 Aroclor 1260
7.034	106928	95947	0.897	0.19	
7.077	19904	20605	1.035	0.03	
7.119	36883	33668	0.913	0.06	
7.250	508496	472827	0.930	0.90	8 Aroclor 1260
7.280	165201	146247	0.885	0.29	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.387	466164	417298	0.895	0.83	
7.442	443448	396768	0.895	0.79	8 Aroclor 1260
7.552	35351	26965	0.763	0.06	
7.687	131916	122439	0.928	0.23	
7.726	116287	97805	0.841	0.20	
7.801	71352	43456	0.609	0.12	
7.899	325473	279799	0.860	0.57	8 Aroclor 1260
7.959	47316	29535	0.624	0.08	
8.046	46859	36839	0.786	0.08	
8.273	270850	250343	0.924	0.48	
8.376	9556	8410	0.880	0.01	
8.569	3517510	3131938	0.890	6.26	$ 12 Decachlorobiphenyl
8.943	10522	8149	0.775	0.01	
9.167	36059	28613	0.794	0.06	
	56127536	49308274		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318025.D
Lab Smp Id: 40151804004 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 19:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804004 x3,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.483	2.484	-0.001	3588869	0.02911	44			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.259	4.261	-0.002	1438269	0.61386	920	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	988403	0.23815	360	0.00- 20.00	68.72	BA
4.811	4.812	-0.001	872304	0.42969	640	0.00- 20.00	60.65	BA
4.878	4.879	-0.001	2122090	0.42126	630	0.00- 20.00	147.54	BA
5.036	5.038	-0.002	640989	0.17862	270	0.00- 20.00	44.57	BA
Average of Peak Concentrations =					560			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1976875	0.37761	560	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1347353	0.31326	470	0.00- 20.00	68.16	BA
5.508	5.510	-0.002	2061726	0.26548	400	0.00- 20.00	104.29	BA
6.023	6.027	-0.004	1471055	0.30208	450	0.00- 20.00	74.41	BA
6.299	6.299	0.000	3396515	0.52197	780	0.00- 20.00	171.81	BA
Average of Peak Concentrations =					530			
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	1001229	0.09998	150	0.00- 20.00	29.48	BA
7.249	7.251	-0.002	508496	0.10638	160	0.00- 20.00	14.97	BA
7.441	7.443	-0.002	443448	0.15212	230	0.00- 20.00	13.06	BA
7.898	7.901	-0.003	325472	0.12334	180	0.00- 20.00	9.58	BA
Average of Peak Concentrations =					180			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	3517510	0.03211	48			

QC Flag Legend

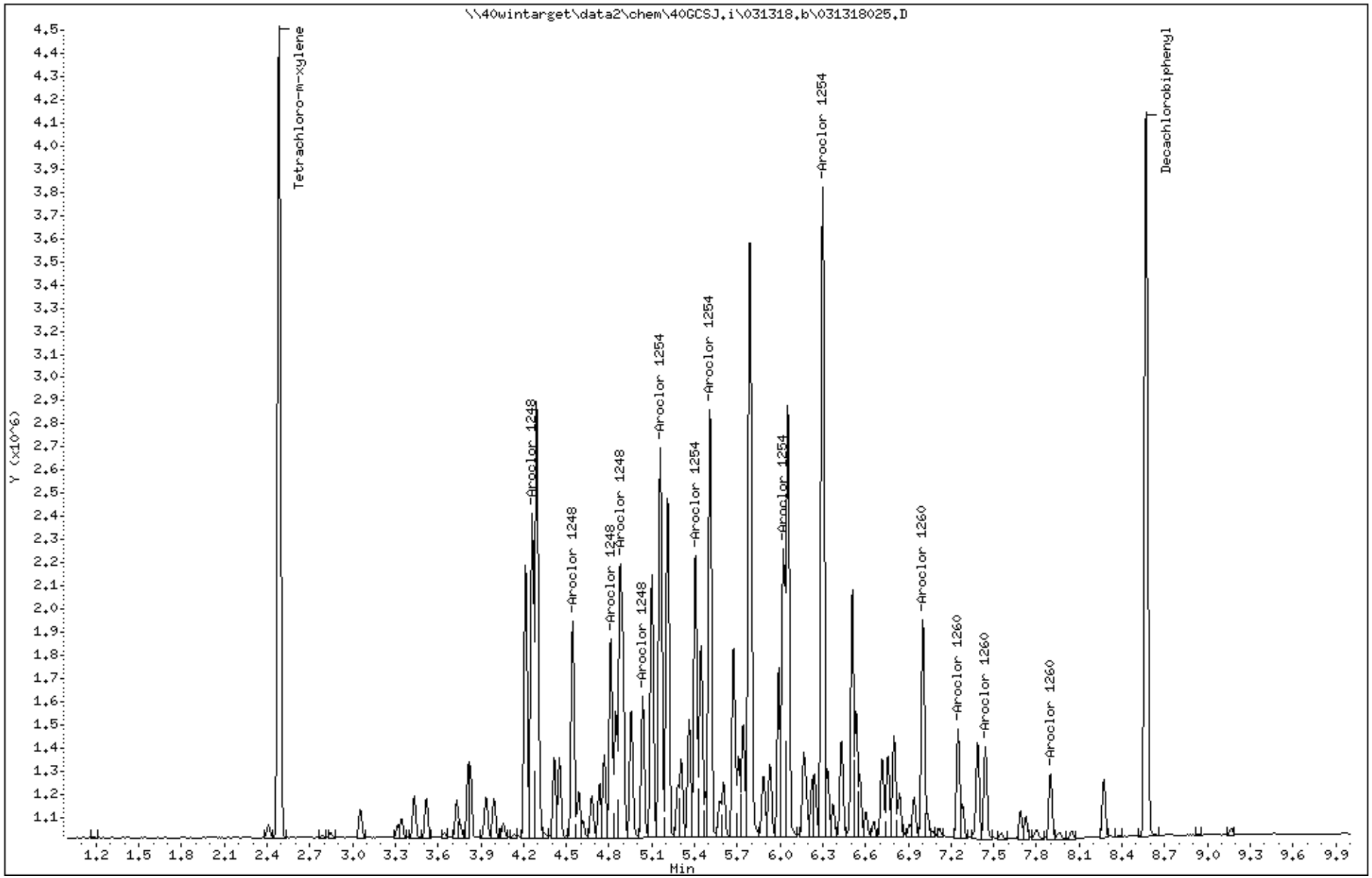
M - Compound response manually integrated.

Review Codes Legend

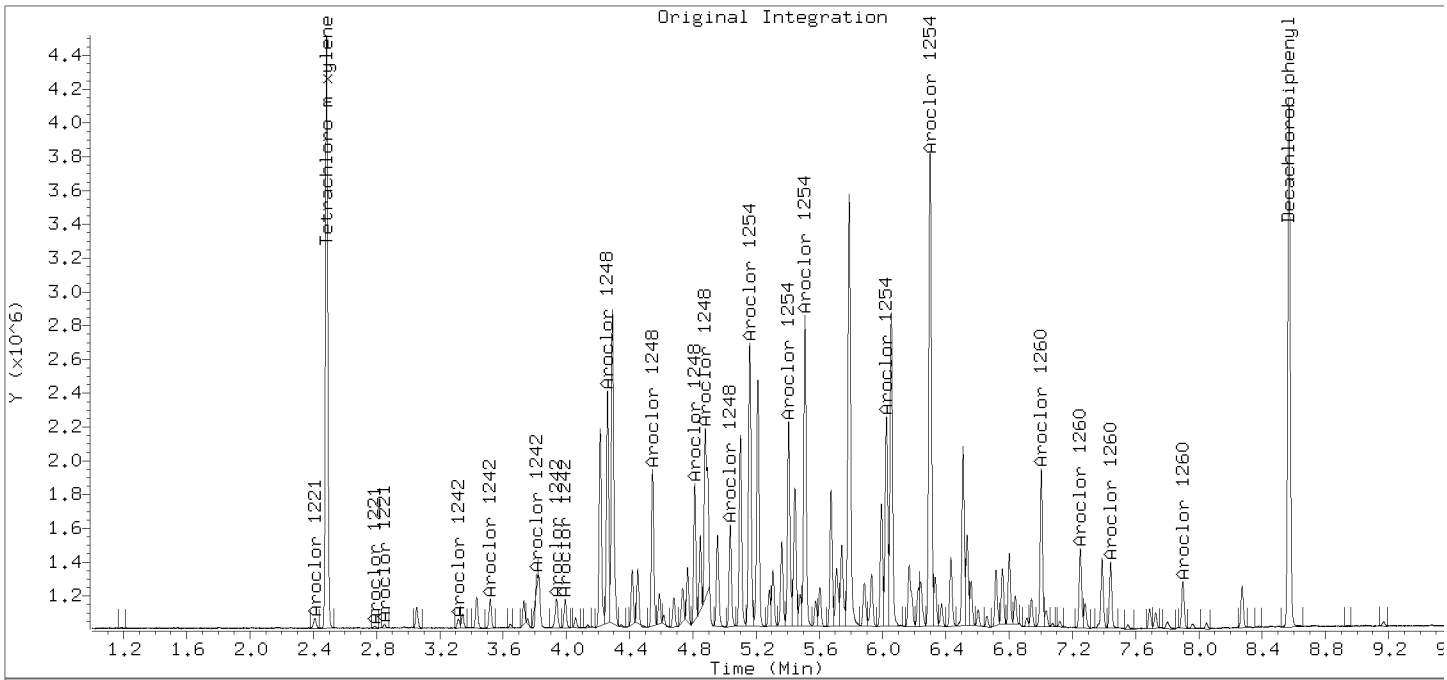
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

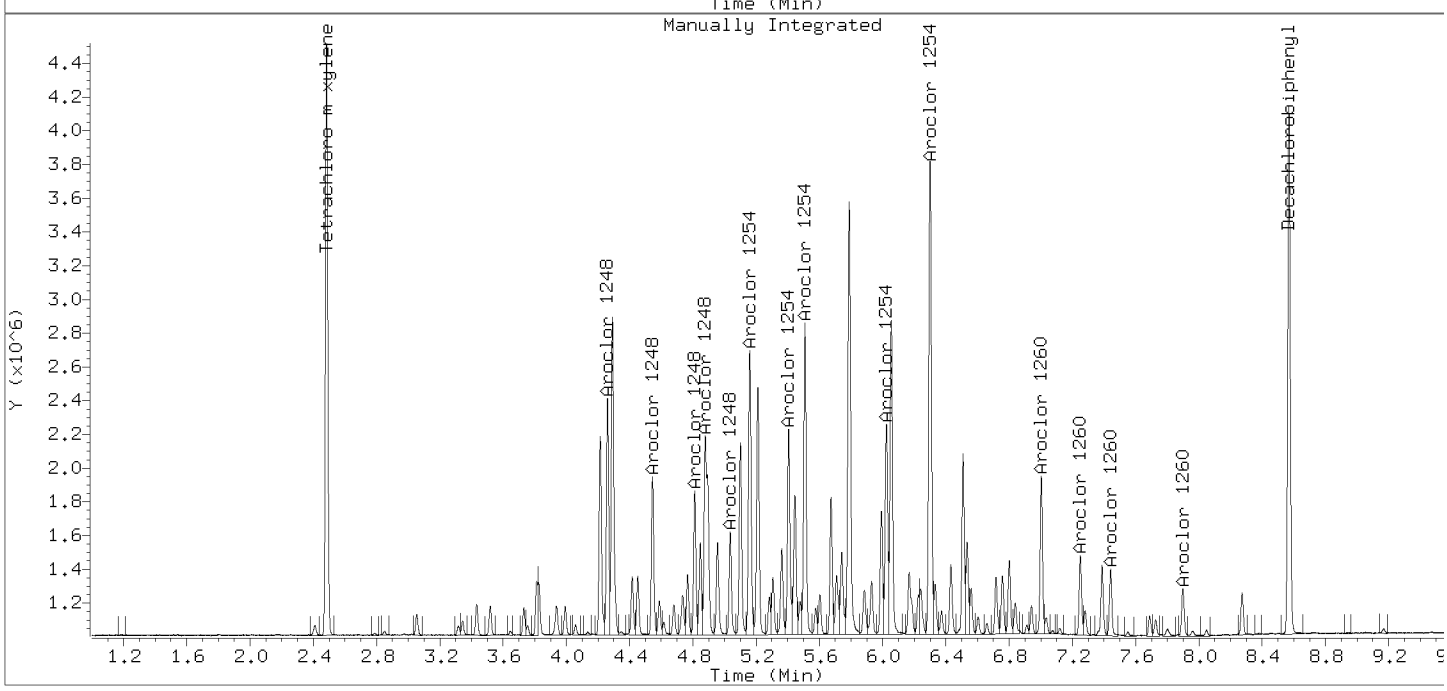
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318025.D
Date : 13-MAR-2018 19:50
Client ID: ND2-170613-01-SMB-0
Sample Info: 40151804004 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 19:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	58938	0	
Aroclor 1016	58938	0	
Aroclor 1016	58938	0	
Aroclor 1016	58938	0	
Aroclor 1016	58938	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	31069	0	
Aroclor 1232	31069	0	
Aroclor 1232	31069	0	
Aroclor 1232	31069	0	

Aroclor 1232	31069	0	
Aroclor 1242	58938	0	
Aroclor 1242	58938	0	
Aroclor 1242	58938	0	
Aroclor 1242	58938	0	
Aroclor 1242	58938	0	
Aroclor 1248	1376916	1438269	BA
Aroclor 1248	1376916	1438269	BA
Aroclor 1248	1376916	1438269	BA
Aroclor 1248	1376916	1438269	BA
Aroclor 1248	1376916	1438269	BA
Aroclor 1254	1946202	1976875	BA
Aroclor 1254	1946202	1976875	BA
Aroclor 1254	1946202	1976875	BA
Aroclor 1254	1946202	1976875	BA
Aroclor 1254	1946202	1976875	BA
Aroclor 1260	3374704	0	BA
Aroclor 1260	3374704	0	BA
Aroclor 1260	3374704	0	BA
Aroclor 1260	3374704	0	BA
Aroclor 1260	3374704	0	BA
Tetrachloro-m-xylene	3588869	3588869	
Decachlorobiphenyl	3517510	3517510	

==========

SAMPLE NO.

ND2-170613-01-SMB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/12/2018 07:42
Lab Sample ID: 40151804005
Date Analyzed: 03/20/2018 14:54
Lab File ID: 032018.B\032018010.D
Initial wt/vol: 9.9782 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	274	
11097-69-1	PCB-1254 (Aroclor 1254)	414	
11096-82-5	PCB-1260 (Aroclor 1260)	182	
1336-36-3	PCB, Total	870	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018010.D
Lab Smp Id: 40151804005 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 20-MAR-2018 14:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804005 x2,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.978	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	24541	15942	0.650	0.03		
1.687	13768	14007	1.017	0.02		
2.011	9354	9600	1.026	0.01		
2.410	43740	32396	0.741	0.06		
2.485	4510715	4353926	0.965	7.01	$ 2 Tetrachloro-m-xylene	
2.785	12162	10021	0.824	0.01		
2.852	21645	14278	0.660	0.03		
2.971	9759	8065	0.826	0.01		
3.022	12552	11047	0.880	0.01		
3.055	52650	49545	0.941	0.08		
3.316	21090	20283	0.962	0.03		
3.344	29290	28159	0.961	0.04		
3.434	63407	60257	0.950	0.09		
3.519	73633	60616	0.823	0.11		
3.647	13982	11509	0.823	0.02		
3.730	68213	64575	0.947	0.10		
3.755	28195	24629	0.874	0.04		
3.827	265634	156188	0.588	0.41		
3.938	111158	86411	0.777	0.17		
3.993	102105	93156	0.912	0.15		
4.057	55667	41689	0.749	0.08		
4.138	18858	13076	0.693	0.02		
4.215	781003	722173	0.925	1.21		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	863795	836149	0.968	1.34	6 Aroclor 1248
4.292	1468268	1267267	0.863	2.28	
4.418	267658	246201	0.920	0.41	
4.453	265634	227897	0.858	0.41	
4.547	683838	641637	0.938	1.06	6 Aroclor 1248
4.589	173798	164426	0.946	0.27	
4.617	69216	55718	0.805	0.10	
4.682	172333	156666	0.909	0.26	
4.736	260239	222549	0.855	0.40	
4.768	309307	290463	0.939	0.48	
4.813	681596	634107	0.930	1.05	6 Aroclor 1248
4.848	297900	278524	0.935	0.46	
4.879	1804486	924907	0.513	2.80	6 Aroclor 1248
4.957	590189	506640	0.858	0.91	
5.038	495636	448266	0.904	0.77	6 Aroclor 1248
5.101	1297186	1168162	0.901	2.01	
5.161	2236820	1899209	0.849	3.47	7 Aroclor 1254
5.213	1944806	1725357	0.887	3.02	
5.284	241308	241355	1.000	0.37	
5.307	448498	363349	0.810	0.69	
5.362	576096	519309	0.901	0.89	
5.407	1442527	1303434	0.904	2.24	7 Aroclor 1254
5.446	1014315	843963	0.832	1.57	
5.479	256708	227622	0.887	0.39	
5.509	2033474	1709846	0.841	3.16	7 Aroclor 1254
5.578	242056	219070	0.905	0.37	
5.604	246586	214395	0.869	0.38	
5.675	1200484	1120569	0.933	1.86	
5.709	648385	526526	0.812	1.00	
5.743	802116	654308	0.816	1.24	
5.791	3963893	3020887	0.762	6.16	
5.885	456331	354461	0.777	0.70	
5.931	552535	455703	0.825	0.85	
5.994	1239235	1131441	0.913	1.92	
6.026	1630436	1403102	0.861	2.53	7 Aroclor 1254
6.055	3144961	2678354	0.852	4.88	
6.169	836225	538292	0.644	1.30	
6.228	312116	336287	1.077	0.48	
6.242	474497	375499	0.791	0.73	
6.301	4610996	3754709	0.814	7.16	7 Aroclor 1254
6.333	424519	396160	0.933	0.65	
6.373	213463	179822	0.842	0.33	
6.433	783535	687381	0.877	1.21	
6.509	1797812	1602720	0.891	2.79	
6.535	696780	664480	0.954	1.08	
6.561	435488	388387	0.892	0.67	
6.604	167522	145095	0.866	0.26	
6.660	104052	96441	0.927	0.16	
6.718	586405	526792	0.898	0.91	
6.758	675398	593300	0.878	1.04	
6.801	665624	610648	0.917	1.03	
6.839	328294	277517	0.845	0.51	
6.913	86039	85152	0.990	0.13	
6.942	311953	285430	0.915	0.48	
7.004	1643525	1489365	0.906	2.55	8 Aroclor 1260
7.036	173862	164131	0.944	0.27	
7.074	33038	30555	0.925	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	74715	55842	0.747	0.11	
7.250	718539	655528	0.912	1.11	8 Aroclor 1260
7.281	252752	220040	0.871	0.39	
7.389	708473	625615	0.883	1.10	
7.442	661941	565167	0.854	1.02	8 Aroclor 1260
7.551	45894	39203	0.854	0.07	
7.690	195225	164081	0.840	0.30	
7.727	139724	120428	0.862	0.21	
7.799	98829	57189	0.579	0.15	
7.901	484401	424174	0.876	0.75	8 Aroclor 1260
7.961	58042	38921	0.671	0.09	
8.050	108121	83701	0.774	0.16	
8.274	307052	280934	0.915	0.47	
8.376	31030	15625	0.504	0.04	
8.451	13596	10675	0.785	0.02	
8.504	9901	8756	0.884	0.01	
8.570	4614599	3932101	0.852	7.67	$ 12 Decachlorobiphenyl
8.723	14079	12635	0.897	0.02	
9.057	10174	9854	0.969	0.01	
9.171	35094	27788	0.792	0.05	
9.960	15595	11973	0.768	0.02	
	64324689	55171780		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018010.D
Lab Smp Id: 40151804005 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 20-MAR-2018 14:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804005 x2,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.978	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	4510714	0.03658	37			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	863795	0.36867	370	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	683838	0.16477	160	0.00- 20.00	79.17	BA
4.813	4.812	0.001	681595	0.33575	340	0.00- 20.00	78.91	BA
4.879	4.879	0.000	1804485	0.35821	360	0.00- 20.00	208.90	BA
5.037	5.038	-0.001	495636	0.13812	140	0.00- 20.00	57.38	BA
Average of Peak Concentrations =					270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2236819	0.42726	430	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	1442526	0.33539	340	0.00- 20.00	64.49	BA
5.509	5.510	-0.001	2033473	0.26184	260	0.00- 20.00	90.91	BA
6.025	6.027	-0.002	1630435	0.33481	340	0.00- 20.00	72.89	BA
6.301	6.299	0.002	4610995	0.70861	710	0.00- 20.00	206.14	BA
Average of Peak Concentrations =					410			
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	1643525	0.16412	160	0.00- 20.00	35.64	BA
7.250	7.251	-0.001	718539	0.15033	150	0.00- 20.00	15.58	BA
7.442	7.443	-0.001	661941	0.22707	230	0.00- 20.00	14.36	BA
7.900	7.901	-0.001	484400	0.18357	180	0.00- 20.00	10.51	BA
Average of Peak Concentrations =					180			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4614599	0.04212	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.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018010.D

Date : 20-MAR-2018 14:54

Client ID: ND2-170613-01-SMB-0

Instrument: 40GCSJ.i

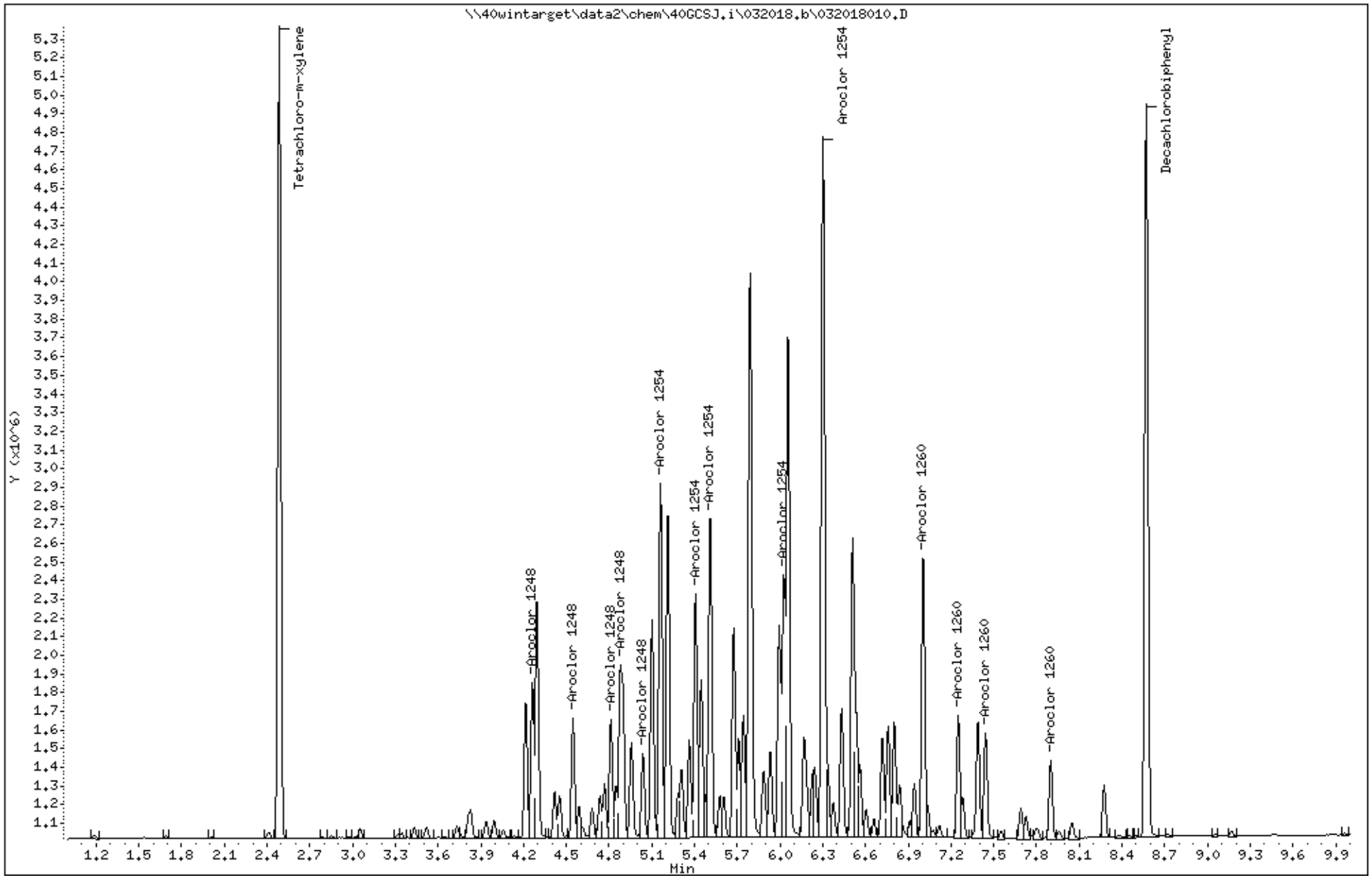
Sample Info: 40151804005 x2,

Volume Injected (uL): 1.0

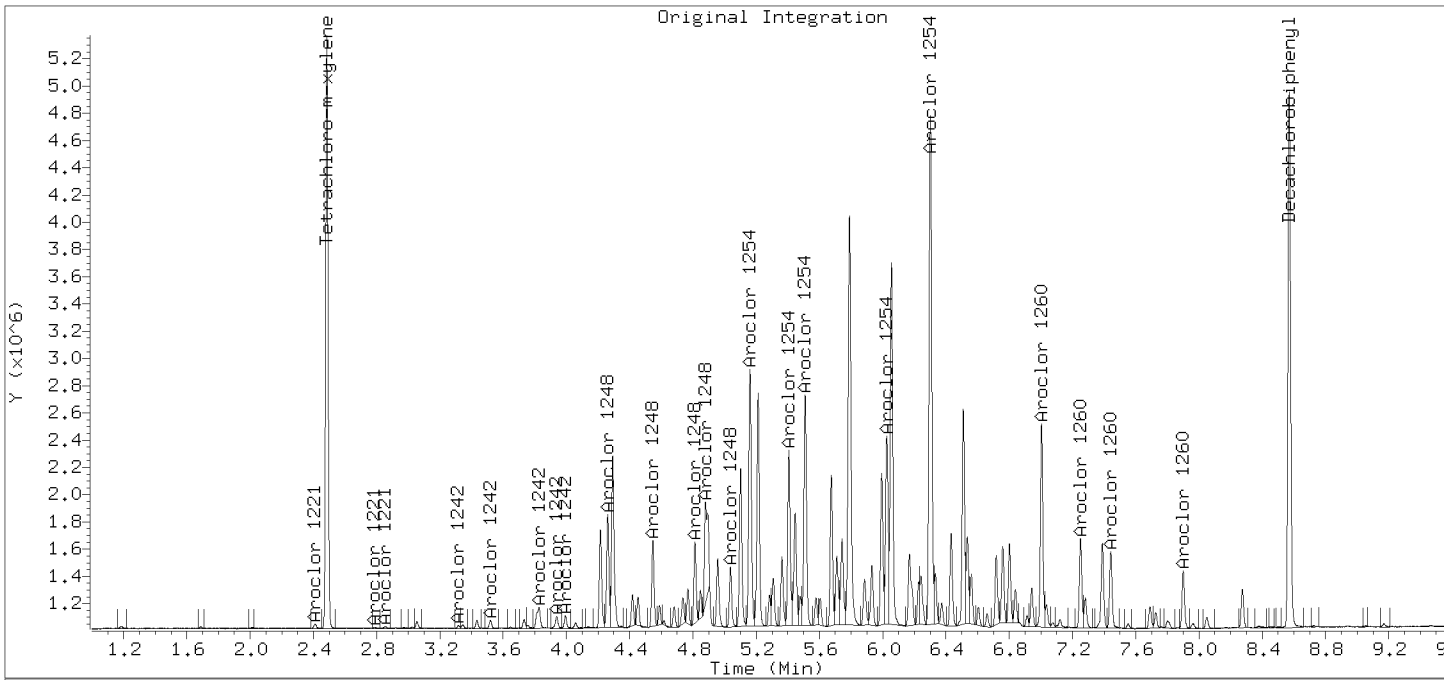
Operator: BLM

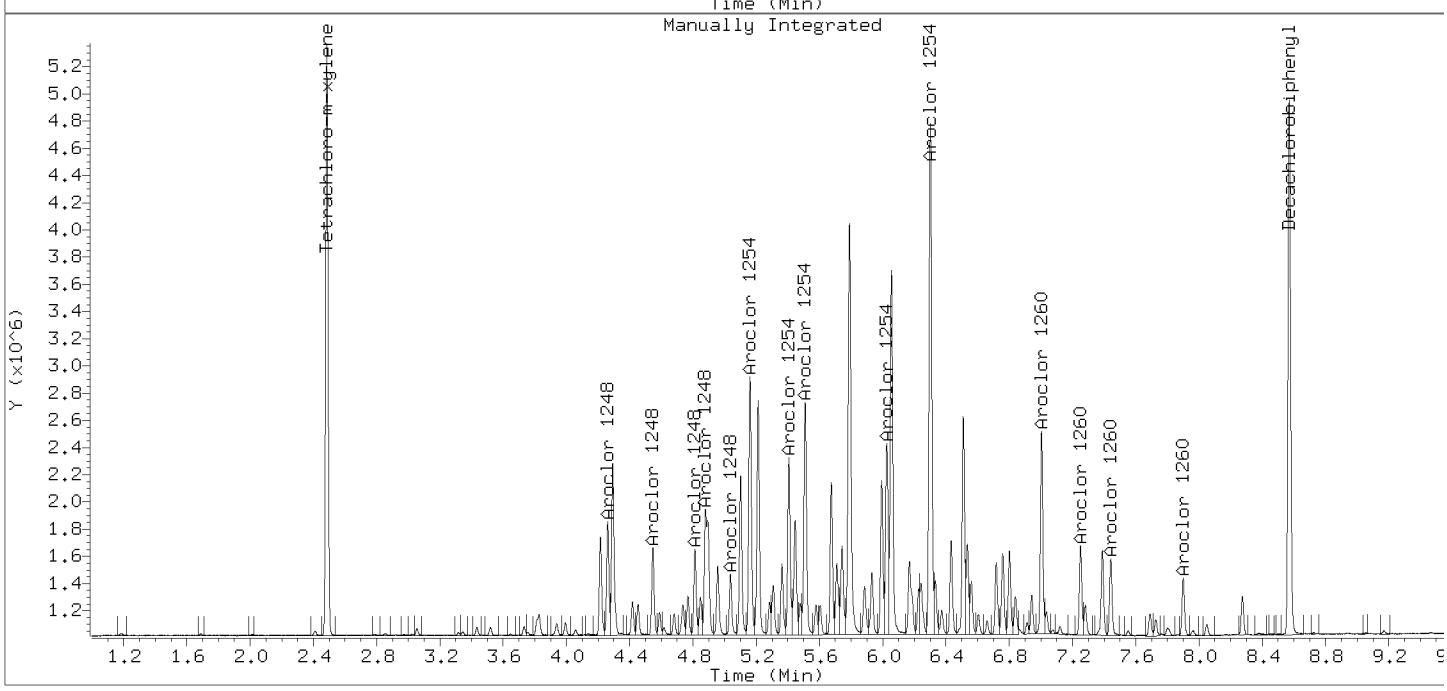
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 14:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	21090	0	
Aroclor 1016	21090	0	
Aroclor 1016	21090	0	
Aroclor 1016	21090	0	
Aroclor 1016	21090	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	21644	0	
Aroclor 1232	21644	0	
Aroclor 1232	21644	0	
Aroclor 1232	21644	0	

Aroclor 1232	21644	0	
Aroclor 1242	21090	0	
Aroclor 1242	21090	0	
Aroclor 1242	21090	0	
Aroclor 1242	21090	0	
Aroclor 1242	21090	0	
Aroclor 1248	849736	863795	BA
Aroclor 1248	849736	863795	BA
Aroclor 1248	849736	863795	BA
Aroclor 1248	849736	863795	BA
Aroclor 1248	849736	863795	BA
Aroclor 1254	2188753	2236819	BA
Aroclor 1254	2188753	2236819	BA
Aroclor 1254	2188753	2236819	BA
Aroclor 1254	2188753	2236819	BA
Aroclor 1254	2188753	2236819	BA
Aroclor 1260	4543046	0	BA
Aroclor 1260	4543046	0	BA
Aroclor 1260	4543046	0	BA
Aroclor 1260	4543046	0	BA
Aroclor 1260	4543046	0	BA
Tetrachloro-m-xylene	4510714	4510714	
Decachlorobiphenyl	4614599	4614599	

==========

SAMPLE NO.

ND2-170613-01-SMB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/12/2018 07:42
Lab Sample ID: 40151804006
Date Analyzed: 03/13/2018 20:22
Lab File ID: 031318.B\031318027.D
Initial wt/vol: 9.9895 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<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)	927	
11097-69-1	PCB-1254 (Aroclor 1254)	708	
11096-82-5	PCB-1260 (Aroclor 1260)	219	
1336-36-3	PCB, Total	1850	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318027.D
Lab Smp Id: 40151804006 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 20:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804006 x3,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.989	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.168	10323	7526	0.729	0.01		
2.412	76138	57414	0.754	0.10		
2.484	3377600	3333478	0.987	4.52	$ 2 Tetrachloro-m-xylene	
2.785	11919	10607	0.890	0.01		
2.852	23479	21183	0.902	0.03		
3.054	134633	129683	0.963	0.18		
3.317	54816	55785	1.018	0.07		
3.343	80806	79366	0.982	0.10		
3.432	181212	176190	0.972	0.24		
3.519	208330	189231	0.908	0.27		
3.645	37811	32513	0.860	0.05		
3.730	305299	242863	0.795	0.40		
3.814	333257	418296	1.255	0.44		
3.826	535694	503166	0.939	0.71		
3.938	275876	237480	0.861	0.36		
3.993	245548	230193	0.937	0.32		
4.057	84592	79844	0.944	0.11		
4.138	32107	23796	0.741	0.04		
4.214	2093838	1901900	0.908	2.80		
4.261	2209004	2162151	0.979	2.96	6 Aroclor 1248	BA
4.292	3940518	3515427	0.892	5.28		
4.348	32905	24712	0.751	0.04		
4.416	572421	548242	0.958	0.76		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	576153	535172	0.929	0.77	
4.546	1424598	1388087	0.974	1.90	6 Aroclor 1248
4.589	306797	289242	0.943	0.41	
4.615	113628	104928	0.923	0.15	
4.680	253371	234194	0.924	0.33	
4.736	339301	264728	0.780	0.45	
4.767	596265	580757	0.974	0.79	
4.812	1590362	1524273	0.958	2.13	6 Aroclor 1248
4.847	737059	722053	0.980	0.98	
4.878	3386082	2128513	0.629	4.53	6 Aroclor 1248
4.957	714660	639861	0.895	0.95	
5.036	1233885	1167175	0.946	1.65	6 Aroclor 1248
5.100	1529973	1382747	0.904	2.05	
5.161	2697103	2390135	0.886	3.61	7 Aroclor 1254
5.211	2428303	2205448	0.908	3.25	
5.283	269862	272012	1.008	0.36	
5.307	533522	449078	0.842	0.71	
5.362	819916	767070	0.936	1.09	
5.406	1883854	1689247	0.897	2.52	7 Aroclor 1254
5.445	1373495	1190824	0.867	1.84	
5.479	245475	217887	0.888	0.32	
5.509	2540756	2274364	0.895	3.40	7 Aroclor 1254
5.576	190683	181322	0.951	0.25	
5.603	318334	285328	0.896	0.42	
5.674	1060506	1002389	0.945	1.42	
5.710	584634	473477	0.810	0.78	
5.742	836618	665568	0.796	1.12	
5.789	4373486	3501721	0.801	6.38	
5.885	444055	373478	0.841	0.59	
5.930	480394	389795	0.811	0.64	
5.992	1011190	951101	0.941	1.35	
6.024	2073080	1806102	0.871	2.77	7 Aroclor 1254
6.054	2638553	2299636	0.872	3.53	
6.168	722279	486043	0.673	0.96	
6.226	274497	297500	1.084	0.36	
6.241	428549	338523	0.790	0.57	
6.300	4234785	3507995	0.828	5.67	7 Aroclor 1254
6.332	396705	367510	0.926	0.53	
6.373	194743	170460	0.875	0.26	
6.431	607799	544124	0.895	0.81	
6.509	1530643	1366898	0.893	2.05	
6.534	735470	706236	0.960	0.98	
6.558	341403	311623	0.913	0.45	
6.605	162779	142752	0.877	0.21	
6.661	87574	78468	0.896	0.11	
6.717	504271	449642	0.892	0.67	
6.757	535007	494066	0.923	0.71	
6.801	613062	557556	0.909	0.82	
6.839	306824	243137	0.792	0.41	
6.912	72883	71169	0.976	0.09	
6.942	235616	220351	0.935	0.31	
7.003	1320306	1179608	0.893	1.76	8 Aroclor 1260
7.034	149042	141045	0.946	0.19	
7.074	28975	27197	0.939	0.03	
7.120	56948	47663	0.837	0.07	
7.250	584863	536614	0.918	0.78	8 Aroclor 1260
7.280	196890	177443	0.901	0.26	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	614742	566812	0.922	0.82	
7.442	515842	465323	0.902	0.69	8 Aroclor 1260
7.479	10366	14207	1.371	0.01	
7.552	42469	37252	0.877	0.05	
7.690	167815	149104	0.889	0.22	
7.727	125878	108546	0.862	0.16	
7.798	66252	46832	0.707	0.08	
7.899	400405	364918	0.911	0.53	8 Aroclor 1260
7.962	52347	34895	0.667	0.07	
8.046	56317	47574	0.845	0.07	
8.274	282201	262615	0.931	0.37	
8.381	12662	8249	0.651	0.01	
8.452	13358	10854	0.813	0.01	
8.487	11558	5872	0.508	0.01	
8.569	3408583	3000644	0.880	4.56	$ 12 Decachlorobiphenyl
9.167	22189	23583	1.063	0.02	
9.466	13934	9284	0.666	0.01	
9.959	11309	7075	0.626	0.01	
	74614216	65956020		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318027.D
Lab Smp Id: 40151804006 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 20:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804006 x3,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.989	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	3377599	0.02739	41			

---

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			
4.260	4.261	-0.001	2209003	0.94282	1400	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1424597	0.34325	520	0.00- 20.00	64.49	BA
4.811	4.812	-0.001	1590362	0.78340	1200	0.00- 20.00	71.99	BA
4.877	4.879	-0.002	3386081	0.67218	1000	0.00- 20.00	153.29	BA
5.035	5.038	-0.003	1233885	0.34384	520	0.00- 20.00	55.86	BA
		Average of Peak Concentrations =			930			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2697102	0.51518	770	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1883853	0.43800	660	0.00- 20.00	69.85	BA
5.509	5.510	-0.001	2540756	0.32716	490	0.00- 20.00	94.20	BA
6.023	6.027	-0.004	2073079	0.42571	640	0.00- 20.00	76.86	BA
6.299	6.299	0.000	4234784	0.65079	980	0.00- 20.00	157.01	BA
		Average of Peak Concentrations =			710			
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	1320305	0.13184	200	0.00- 20.00	31.18	CO
7.249	7.251	-0.002	584863	0.12236	180	0.00- 20.00	13.81	CO
7.441	7.443	-0.002	515842	0.17695	260	0.00- 20.00	12.42	CO
7.898	7.901	-0.003	400405	0.15174	230	0.00- 20.00	9.46	CO
		Average of Peak Concentrations =			220			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3408583	0.03111	47			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318027.D

Date : 13-MAR-2018 20:22

Client ID: ND2-170613-01-SMB-0

Instrument: 40GCSJ.i

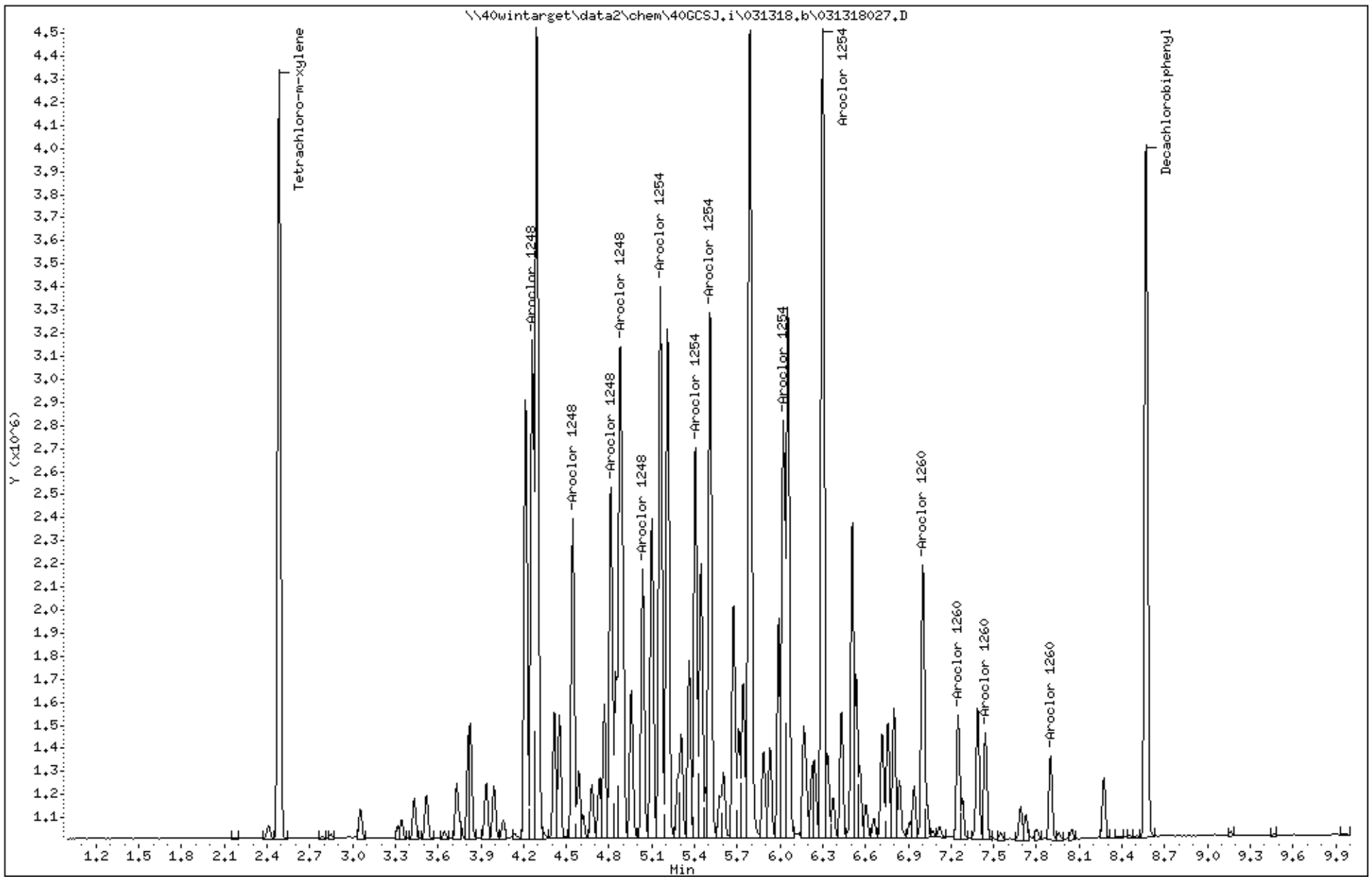
Sample Info: 40151804006 x3,

Volume Injected (uL): 1.0

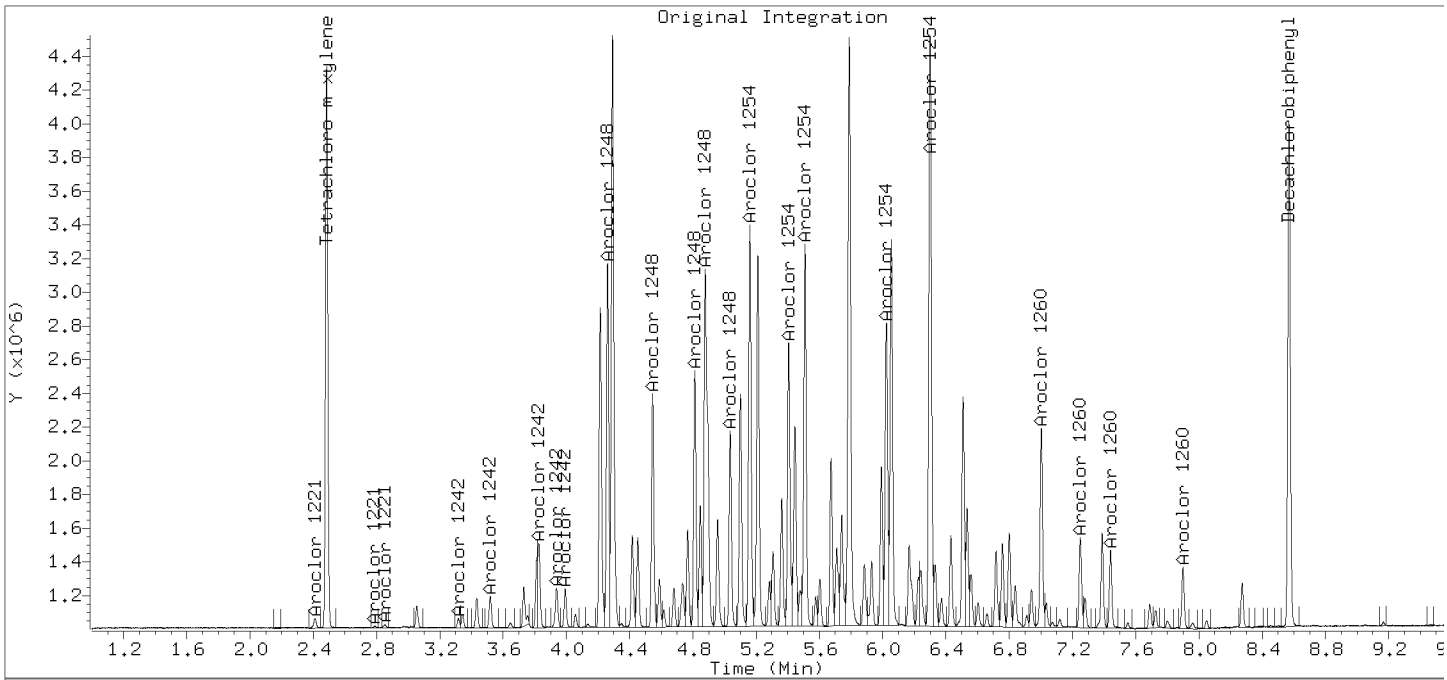
Operator: BLM

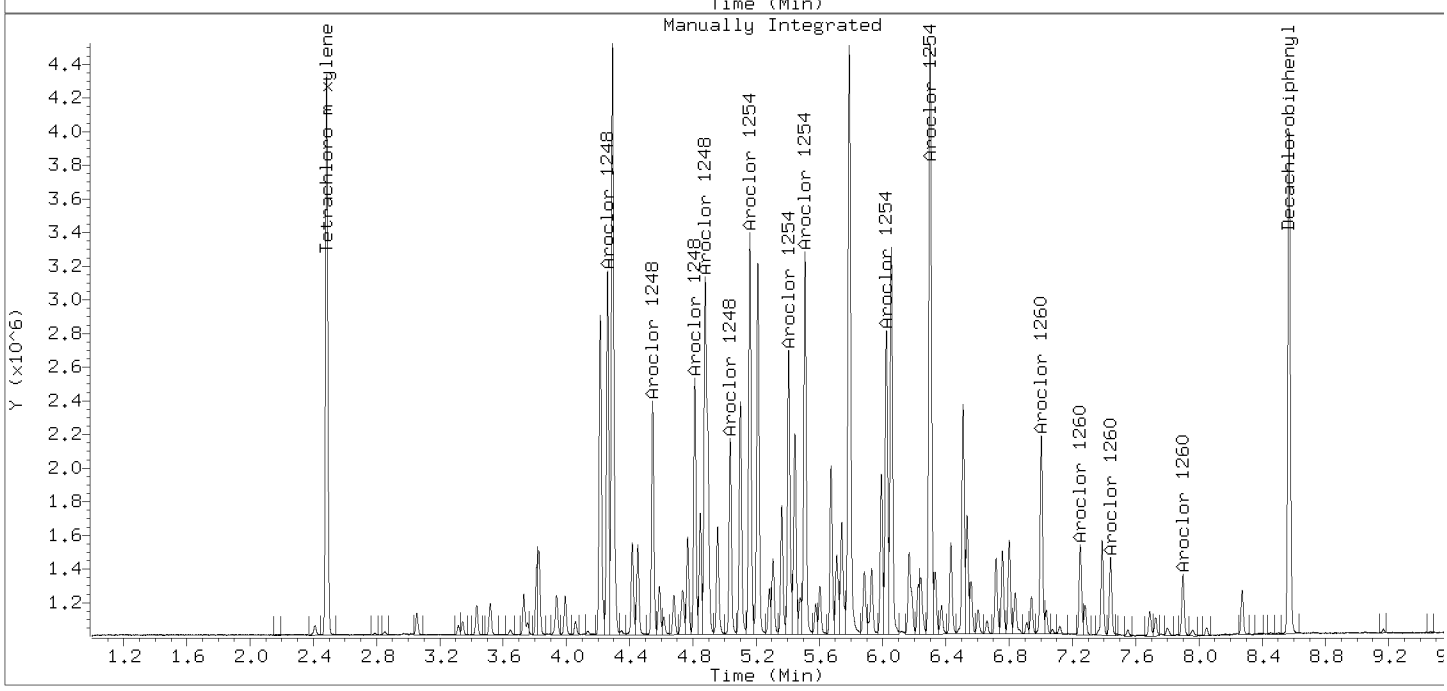
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 20:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	54815	0	
Aroclor 1016	54815	0	
Aroclor 1016	54815	0	
Aroclor 1016	54815	0	
Aroclor 1016	54815	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	23479	0	
Aroclor 1232	23479	0	
Aroclor 1232	23479	0	
Aroclor 1232	23479	0	

Aroclor 1232	23479	0	
Aroclor 1242	54815	0	
Aroclor 1242	54815	0	
Aroclor 1242	54815	0	
Aroclor 1242	54815	0	
Aroclor 1242	54815	0	
Aroclor 1248	2199408	2209003	BA
Aroclor 1248	2199408	2209003	BA
Aroclor 1248	2199408	2209003	BA
Aroclor 1248	2199408	2209003	BA
Aroclor 1248	2199408	2209003	BA
Aroclor 1254	2675677	2697102	BA
Aroclor 1254	2675677	2697102	BA
Aroclor 1254	2675677	2697102	BA
Aroclor 1254	2675677	2697102	BA
Aroclor 1254	2675677	2697102	BA
Aroclor 1260	4219491	0	CO
Aroclor 1260	4219491	0	CO
Aroclor 1260	4219491	0	CO
Aroclor 1260	4219491	0	CO
Aroclor 1260	4219491	0	CO
Tetrachloro-m-xylene	3377599	3377599	
Decachlorobiphenyl	3408583	3408583	

==========

SAMPLE NO.

ND2-170613-01-SMB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/16/2017 10:05

Matrix: Tissue SDG No.: 40151804

Date Extracted: 03/12/2018 07:42

Lab Sample ID: 40151804007

Date Analyzed: 03/13/2018 21:09

Lab File ID: 031318.B\031318030.D

Initial wt/vol: 10.0333 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)	<170	U
11104-28-2	PCB-1221 (Aroclor 1221)	<170	U
11141-16-5	PCB-1232 (Aroclor 1232)	<170	U
53469-21-9	PCB-1242 (Aroclor 1242)	<170	U
12672-29-6	PCB-1248 (Aroclor 1248)	2530	
11097-69-1	PCB-1254 (Aroclor 1254)	2420	
11096-82-5	PCB-1260 (Aroclor 1260)	693	J
1336-36-3	PCB, Total	5650	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318030.D
Lab Smp Id: 40151804007 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 21:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804007 x15,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.033	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	12589	10296	0.818	0.02		
2.412	23758	17334	0.730	0.05		
2.485	639572	624073	0.976	1.50	$ 2 Tetrachloro-m-xylene	
3.055	38137	31057	0.814	0.08		
3.317	20197	19416	0.961	0.04		
3.343	34497	26432	0.766	0.08		
3.433	68376	61998	0.907	0.16		
3.519	68900	62976	0.914	0.16		
3.641	17106	13215	0.773	0.04		
3.732	94785	69635	0.735	0.22		
3.826	296691	180368	0.608	0.69		
3.939	103306	85377	0.826	0.24		
3.993	95635	89288	0.934	0.22		
4.059	47262	43321	0.917	0.11		
4.134	16990	11211	0.660	0.03		
4.214	965592	900520	0.933	2.27		
4.261	1027970	1003316	0.976	2.41	6 Aroclor 1248	BA
4.292	1617447	1422345	0.879	3.80		
4.346	18833	14403	0.765	0.04		
4.417	381594	370423	0.971	0.89		
4.452	349612	328415	0.939	0.82		
4.545	772510	742299	0.961	1.81	6 Aroclor 1248	BA
4.588	118347	112945	0.954	0.27		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	71551	62766	0.877	0.16	
4.681	123000	112143	0.912	0.28	
4.736	167029	124936	0.748	0.39	
4.768	272225	257721	0.947	0.64	
4.812	916514	919180	1.003	2.15	6 Aroclor 1248
4.847	436041	430166	0.987	1.02	
4.878	2082256	1285995	0.618	4.90	6 Aroclor 1248
4.956	434891	387946	0.892	1.02	
5.036	727283	702823	0.966	1.71	6 Aroclor 1248
5.100	859680	767370	0.893	2.02	
5.161	1825246	1551700	0.850	4.29	7 Aroclor 1254
5.212	1622117	1437593	0.886	3.81	
5.282	157028	148939	0.948	0.36	
5.307	275137	231053	0.840	0.64	
5.362	609282	573640	0.942	1.43	
5.406	1238702	1124476	0.908	2.91	7 Aroclor 1254
5.445	885538	772316	0.872	2.08	
5.479	135913	125831	0.926	0.31	
5.509	1859056	1675071	0.901	4.37	7 Aroclor 1254
5.575	107363	96923	0.903	0.25	
5.603	262401	235384	0.897	0.61	
5.674	599380	560650	0.935	1.41	
5.710	352663	265042	0.752	0.82	
5.741	510061	395845	0.776	1.20	
5.789	3192510	2506832	0.785	8.00	
5.886	298669	237826	0.796	0.70	
5.930	237240	186005	0.784	0.55	
5.993	578703	547739	0.946	1.36	
6.023	1518204	1342129	0.884	3.57	7 Aroclor 1254
6.055	1936490	1693828	0.875	4.55	
6.168	492139	359854	0.731	1.15	
6.227	198602	210621	1.061	0.46	
6.239	267597	218110	0.815	0.62	
6.299	2822918	2403947	0.852	6.64	7 Aroclor 1254
6.333	302105	275193	0.911	0.71	
6.373	155382	130647	0.841	0.36	
6.431	279512	234536	0.839	0.65	
6.509	912702	844233	0.925	2.14	
6.534	526223	486411	0.924	1.23	
6.560	230753	210316	0.911	0.54	
6.604	118281	99231	0.839	0.27	
6.660	56421	50583	0.897	0.13	
6.716	303429	265240	0.874	0.71	
6.758	290786	260462	0.896	0.68	
6.800	414891	365240	0.880	0.97	
6.838	162890	133781	0.821	0.38	
6.912	39868	35359	0.887	0.09	
6.941	127828	117548	0.920	0.30	
7.003	853128	822511	0.964	2.00	8 Aroclor 1260
7.035	88589	81646	0.922	0.20	
7.077	25395	22314	0.879	0.05	
7.121	31090	26317	0.846	0.07	
7.250	426681	393555	0.922	1.00	8 Aroclor 1260
7.281	133193	113180	0.850	0.31	
7.388	336060	278284	0.828	0.79	
7.441	308051	272179	0.884	0.72	8 Aroclor 1260
7.553	33955	23999	0.707	0.07	

Data File: ...wintarget\data2\chem\40GCSJ.i\031318.b\031318030.D Page 3
Report Date: 27-Mar-2018 10:41

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.689	98977	88182	0.891	0.23	
7.727	62356	52957	0.849	0.14	
7.798	31865	23486	0.737	0.07	
7.899	239170	215518	0.901	0.56	8 Aroclor 1260
7.961	29466	20706	0.703	0.06	
8.046	17969	16262	0.905	0.04	
8.274	145801	133725	0.917	0.34	
8.378	11811	8682	0.735	0.02	
8.569	729428	653524	0.896	1.71	$ 12 Decachlorobiphenyl
8.937	18036	11999	0.665	0.04	
9.166	18452	14048	0.761	0.04	
9.465	16967	10963	0.646	0.03	
9.962	10829	12653	1.168	0.02	
	42491479	36998533		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318030.D
Lab Smp Id: 40151804007 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 21:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804007 x15,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.033	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	639572	0.00519	39			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

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	1027969	0.43875	3300	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	772509	0.18613	1400	0.00- 20.00	75.15	BA
4.811	4.812	-0.001	916514	0.45147	3400	0.00- 20.00	89.16	BA
4.877	4.879	-0.002	2082256	0.41336	3100	0.00- 20.00	202.56	BA
5.035	5.038	-0.003	727282	0.20267	1500	0.00- 20.00	70.75	BA
Average of Peak Concentrations =					2500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1825246	0.34865	2600	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1238701	0.28800	2200	0.00- 20.00	67.86	BA
5.508	5.510	-0.002	1859056	0.23938	1800	0.00- 20.00	101.85	BA
6.023	6.027	-0.004	1518204	0.31177	2300	0.00- 20.00	83.18	BA
6.299	6.299	0.000	2822917	0.43382	3200	0.00- 20.00	154.66	BA
Average of Peak Concentrations =					2400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	853127	0.08519	640	0.00- 20.00	30.22	BA
7.249	7.251	-0.002	426681	0.08927	670	0.00- 20.00	15.11	BA
7.440	7.443	-0.003	308051	0.10567	790	0.00- 20.00	10.91	BA
7.898	7.901	-0.003	239170	0.09064	680	0.00- 20.00	8.47	BA
Average of Peak Concentrations =					690			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	729428	0.00666	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\031318.b\031318030.D

Date : 13-MAR-2018 21:09

Client ID: ND2-170613-01-SMB-0

Instrument: 40GCSJ.i

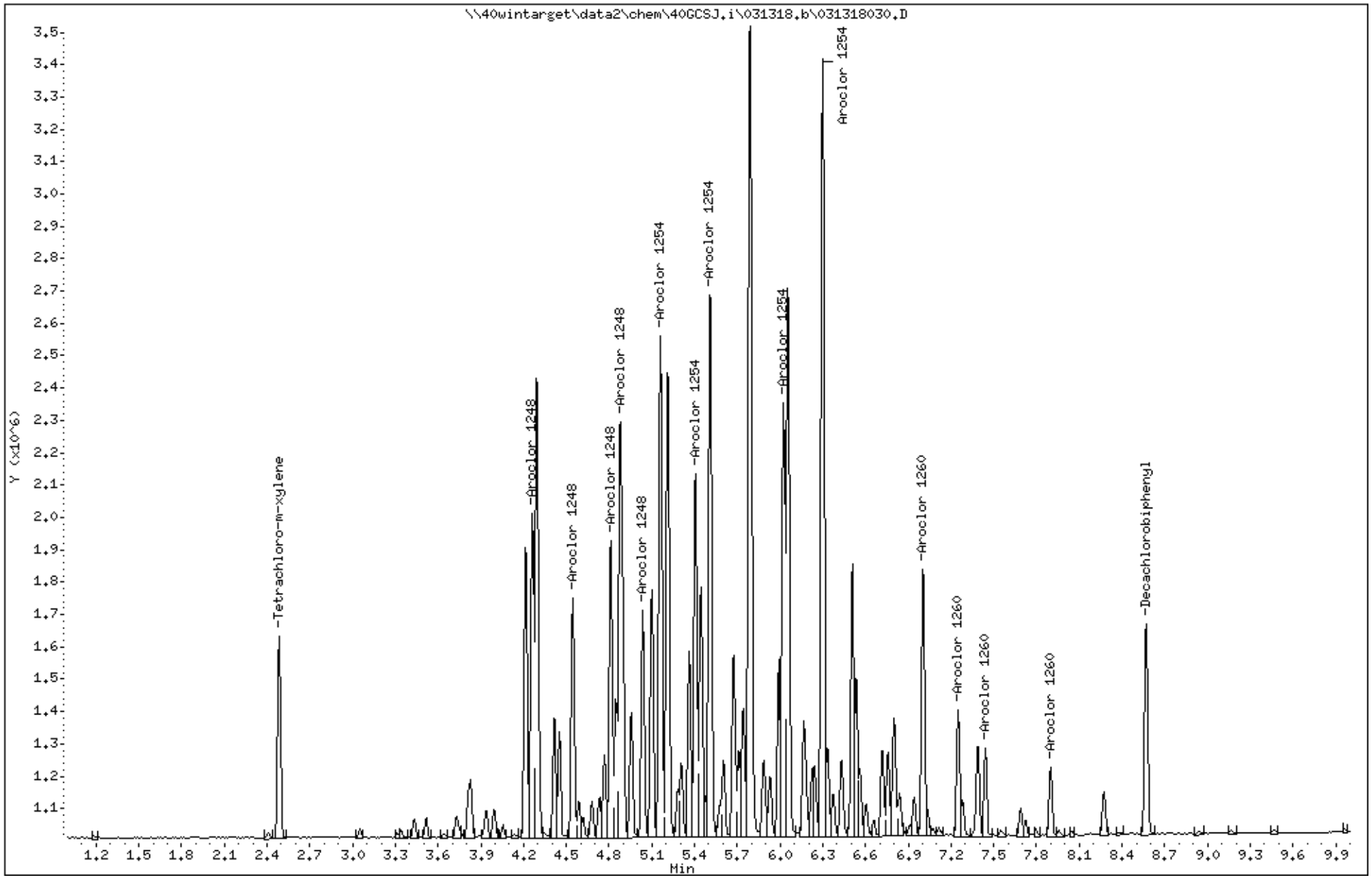
Sample Info: 40151804007 x15,

Volume Injected (uL): 1.0

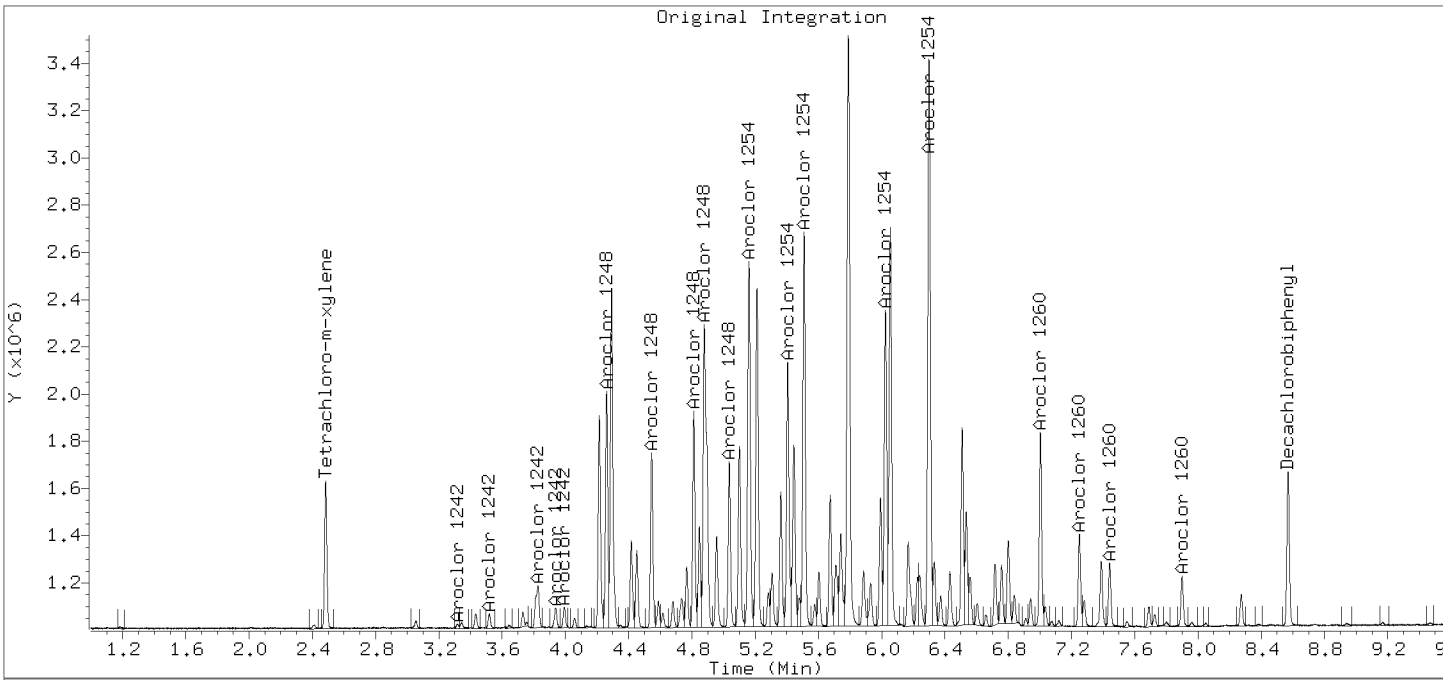
Operator: BLM

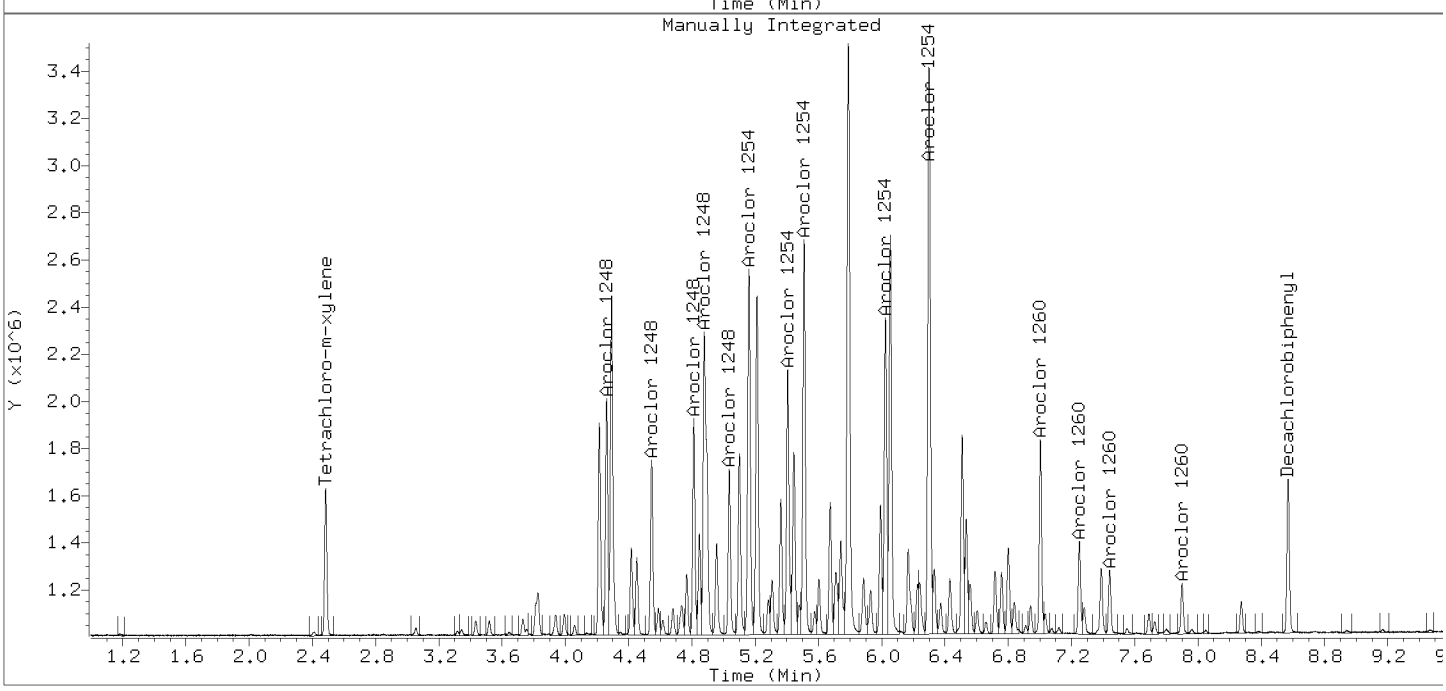
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 21:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	20196	0	
Aroclor 1016	20196	0	
Aroclor 1016	20196	0	
Aroclor 1016	20196	0	
Aroclor 1016	20196	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	20196	0	
Aroclor 1242	20196	0	
Aroclor 1242	20196	0	
Aroclor 1242	20196	0	
Aroclor 1242	20196	0	
Aroclor 1248	1024078	1027969	BA
Aroclor 1248	1024078	1027969	BA
Aroclor 1248	1024078	1027969	BA
Aroclor 1248	1024078	1027969	BA
Aroclor 1248	1024078	1027969	BA
Aroclor 1254	1812748	1825246	BA
Aroclor 1254	1812748	1825246	BA
Aroclor 1254	1812748	1825246	BA
Aroclor 1254	1812748	1825246	BA
Aroclor 1254	1812748	1825246	BA
Aroclor 1260	2804669	0	BA
Aroclor 1260	2804669	0	BA
Aroclor 1260	2804669	0	BA
Aroclor 1260	2804669	0	BA
Aroclor 1260	2804669	0	BA
Tetrachloro-m-xylene	639572	639572	
Decachlorobiphenyl	729428	729428	

==========

SAMPLE NO.

ND2-170613-01-SMB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/12/2018 07:42
Lab Sample ID: 40151804008
Date Analyzed: 03/13/2018 21:41
Lab File ID: 031318.B\031318032.D
Initial wt/vol: 9.9931 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<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)	626	
11097-69-1	PCB-1254 (Aroclor 1254)	631	
11096-82-5	PCB-1260 (Aroclor 1260)	230	
1336-36-3	PCB, Total	1490	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318032.D
Lab Smp Id: 40151804008 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 21:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804008 x3,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	39738	32541	0.819	0.06		
2.484	3214307	3149440	0.980	5.14	$ 2 Tetrachloro-m-xylene	
2.852	22133	13311	0.601	0.03		
3.024	9631	9338	0.970	0.01		
3.054	66438	63969	0.963	0.10		
3.317	29615	27916	0.943	0.04		
3.345	41068	39138	0.953	0.06		
3.433	84971	80676	0.949	0.13		
3.518	98154	92101	0.938	0.15		
3.731	100029	91149	0.911	0.15		
3.826	424371	271941	0.641	0.67		
3.938	144844	118350	0.817	0.23		
3.993	138392	131303	0.949	0.22		
4.058	61185	57058	0.933	0.09		
4.135	16344	15001	0.918	0.02		
4.214	1249554	1171820	0.938	1.99		
4.260	1323056	1271808	0.961	2.11	6 Aroclor 1248	BA
4.291	2364041	2058978	0.871	3.78		
4.346	21995	18078	0.822	0.03		
4.417	460283	423883	0.921	0.73		
4.451	418716	388673	0.928	0.66		
4.545	1025593	970599	0.946	1.64	6 Aroclor 1248	BA
4.588	212214	199750	0.941	0.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	76676	68305	0.891	0.12	
4.679	194223	178514	0.919	0.31	
4.736	271130	218153	0.805	0.43	
4.767	447428	426378	0.953	0.71	
4.812	1124930	1078948	0.959	1.79	6 Aroclor 1248
4.847	429043	422298	0.984	0.68	
4.879	2550860	1486617	0.583	4.08	6 Aroclor 1248
4.956	620621	554002	0.893	0.99	
5.036	760716	729376	0.959	1.21	6 Aroclor 1248
5.100	1330936	1220702	0.917	2.12	
5.160	2306490	2000553	0.867	3.68	7 Aroclor 1254
5.211	2097106	1882224	0.898	3.35	
5.283	244752	240408	0.982	0.39	
5.306	459795	384562	0.836	0.73	
5.362	667757	613770	0.919	1.06	
5.405	1565621	1393960	0.890	2.50	7 Aroclor 1254
5.445	1080881	926927	0.858	1.72	
5.477	208820	190063	0.910	0.33	
5.509	2391790	2137200	0.894	3.82	7 Aroclor 1254
5.577	181290	170819	0.942	0.28	
5.603	254093	222451	0.875	0.40	
5.674	973443	920095	0.945	1.55	
5.710	552042	445555	0.807	0.88	
5.741	739826	588852	0.796	1.18	
5.789	3904211	3109411	0.796	6.24	
5.885	396650	323908	0.817	0.63	
5.930	460548	366938	0.797	0.73	
5.992	1002612	958562	0.956	1.60	
6.023	1797314	1555586	0.866	2.87	7 Aroclor 1254
6.055	2616929	2269697	0.867	4.18	
6.168	678635	462062	0.681	1.08	
6.226	264242	283295	1.072	0.42	
6.240	390208	321653	0.824	0.62	
6.299	4025180	3317316	0.824	6.94	7 Aroclor 1254
6.331	377877	345539	0.914	0.60	
6.372	179360	158121	0.882	0.28	
6.431	598434	525430	0.878	0.95	
6.509	1414034	1250892	0.885	2.26	
6.534	649700	626112	0.964	1.03	
6.559	339358	307252	0.905	0.54	
6.603	143219	126896	0.886	0.22	
6.660	79653	72294	0.908	0.12	
6.716	459900	415419	0.903	0.73	
6.757	496878	458849	0.923	0.79	
6.801	565246	523164	0.926	0.90	
6.839	292885	229322	0.783	0.46	
6.910	63832	61395	0.962	0.10	
6.942	233954	219027	0.936	0.37	
7.003	1324556	1223452	0.924	2.11	8 Aroclor 1260
7.035	130683	123228	0.943	0.20	
7.073	24876	25418	1.022	0.03	
7.119	54477	41467	0.761	0.08	
7.250	611101	571981	0.936	0.97	8 Aroclor 1260
7.280	201572	173741	0.862	0.32	
7.387	572516	490458	0.857	0.91	
7.441	561528	482001	0.858	0.89	8 Aroclor 1260
7.550	43870	35024	0.798	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.690	160483	140599	0.876	0.25	
7.726	120434	108692	0.903	0.19	
7.801	77269	46891	0.607	0.12	
7.898	425009	384241	0.904	0.67	8 Aroclor 1260
7.961	51956	34518	0.664	0.08	
8.046	64447	54008	0.838	0.10	
8.275	295433	260672	0.882	0.47	
8.497	11025	8797	0.798	0.01	
8.569	3206437	2878358	0.898	5.12	$ 12 Decachlorobiphenyl
8.942	10435	7456	0.715	0.01	
9.057	10936	8554	0.782	0.01	
9.170	33419	26121	0.782	0.05	
	62520256	54611370		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318032.D
Lab Smp Id: 40151804008 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 21:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804008 x3,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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
2.483	2.484	-0.001	3214306	0.02607	39			

---

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	1323056	0.56469	850	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1025593	0.24711	370	0.00- 20.00	77.52	BA
4.811	4.812	-0.001	1124929	0.55413	830	0.00- 20.00	85.03	BA
4.878	4.879	-0.001	2550859	0.50638	760	0.00- 20.00	192.80	BA
5.035	5.038	-0.003	760715	0.21198	320	0.00- 20.00	57.50	BA
			Average of Peak Concentrations =		620			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2306490	0.44057	660	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1565620	0.36401	550	0.00- 20.00	67.88	BA
5.508	5.510	-0.002	2391789	0.30798	460	0.00- 20.00	103.70	BA
6.023	6.027	-0.004	1797314	0.36908	550	0.00- 20.00	77.92	BA
6.298	6.299	-0.001	4025179	0.61858	930	0.00- 20.00	174.52	BA
			Average of Peak Concentrations =		630			
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	1324556	0.13227	200	0.00- 20.00	32.91	BA
7.249	7.251	-0.002	611101	0.12785	190	0.00- 20.00	15.18	BA
7.440	7.443	-0.003	561527	0.19263	290	0.00- 20.00	13.95	BA
7.898	7.901	-0.003	425009	0.16107	240	0.00- 20.00	10.56	BA
			Average of Peak Concentrations =		230			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	3206436	0.02927	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.

Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318032.D

Date : 13-MAR-2018 21:41

Client ID: ND2-170613-01-SMB-0

Instrument: 40GCSJ.i

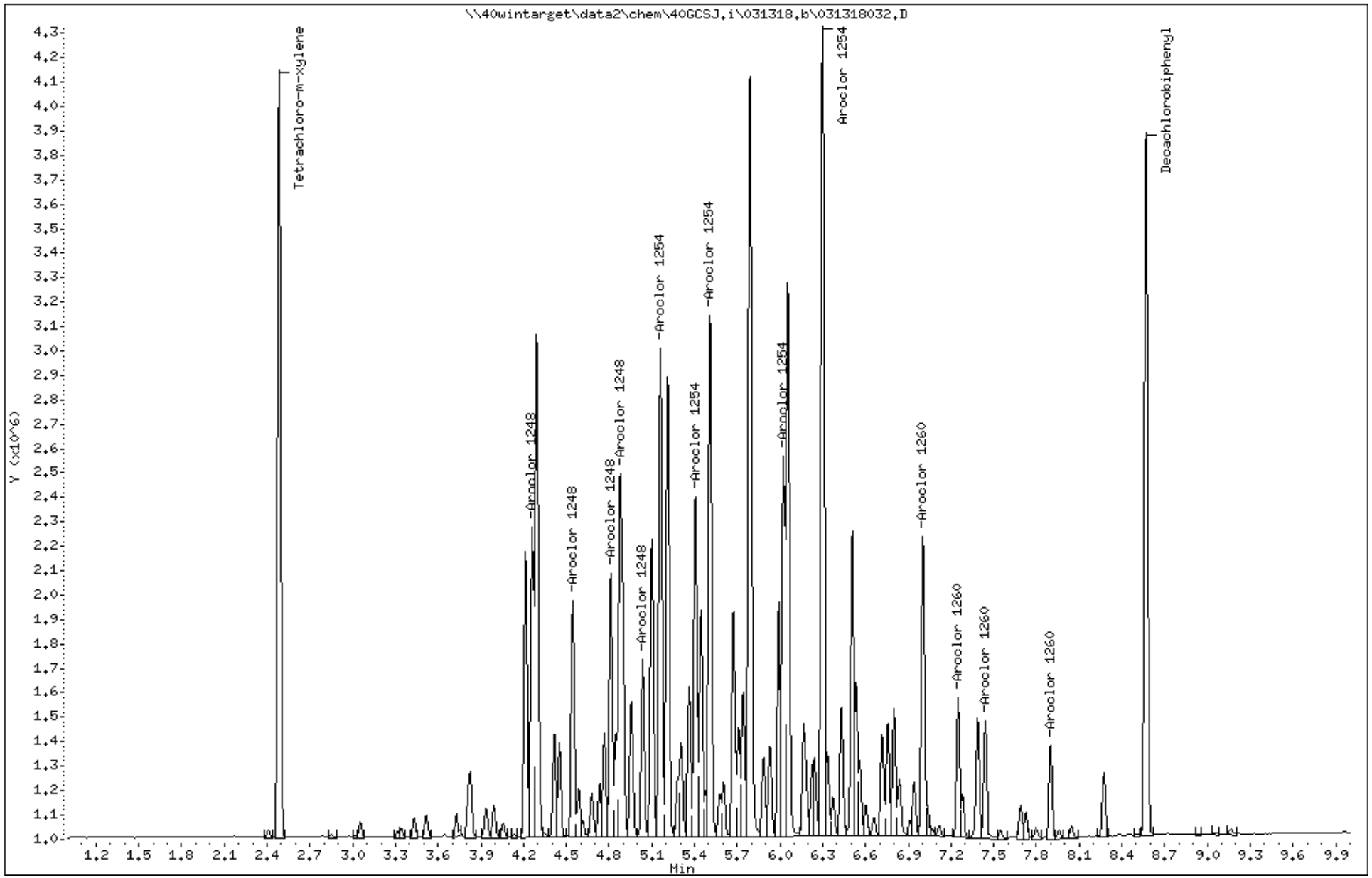
Sample Info: 40151804008 x3,

Volume Injected (uL): 1.0

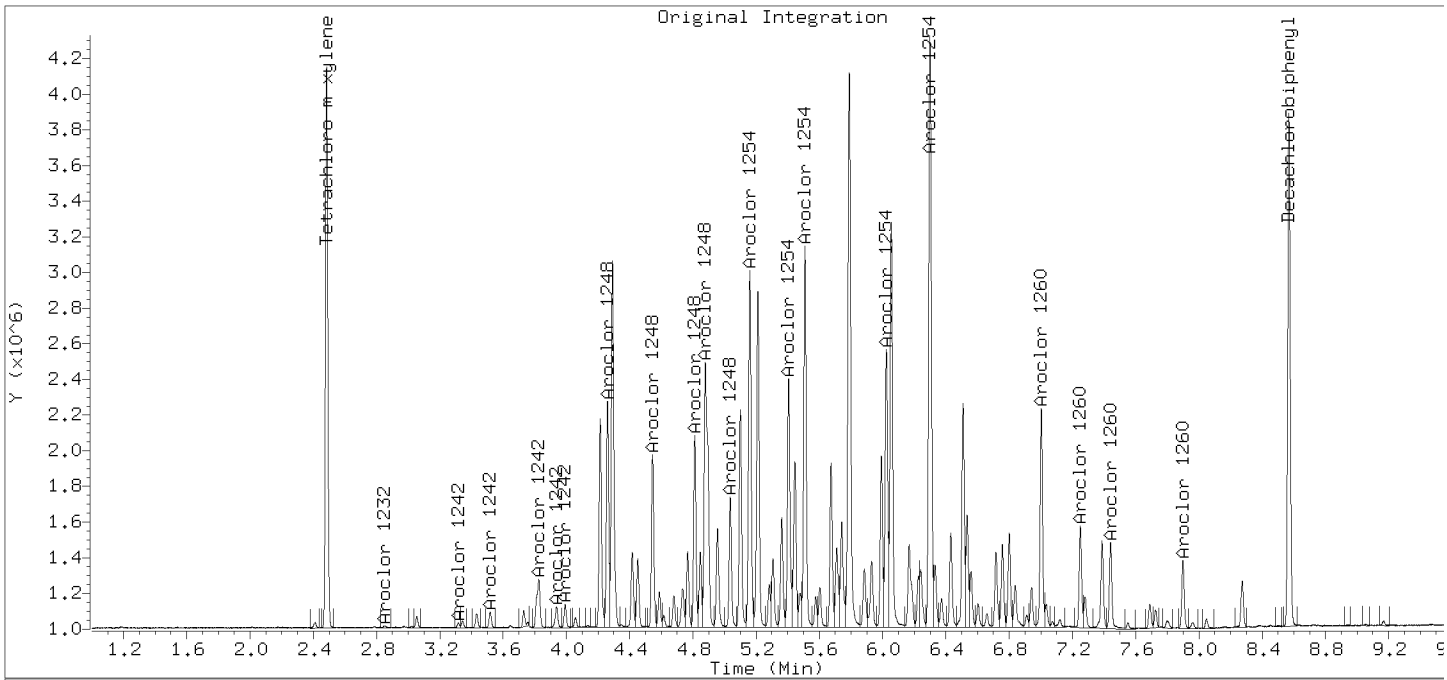
Operator: BLM

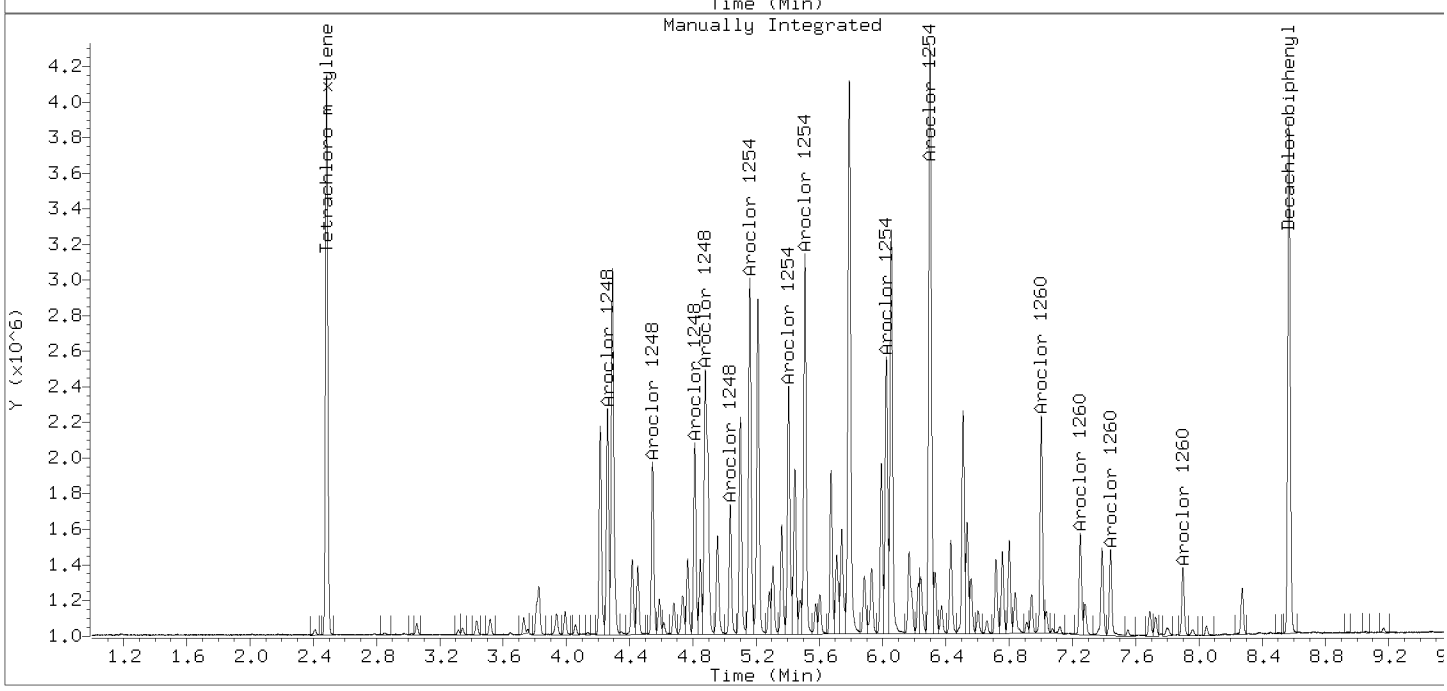
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 21:41 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	29615	0	
Aroclor 1016	29615	0	
Aroclor 1016	29615	0	
Aroclor 1016	29615	0	
Aroclor 1016	29615	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	22133	0	
Aroclor 1232	22133	0	
Aroclor 1232	22133	0	
Aroclor 1232	22133	0	

Aroclor 1232	22133	0	
Aroclor 1242	29615	0	
Aroclor 1242	29615	0	
Aroclor 1242	29615	0	
Aroclor 1242	29615	0	
Aroclor 1242	29615	0	
Aroclor 1248	1317129	1323056	BA
Aroclor 1248	1317129	1323056	BA
Aroclor 1248	1317129	1323056	BA
Aroclor 1248	1317129	1323056	BA
Aroclor 1248	1317129	1323056	BA
Aroclor 1254	2305310	2306490	BA
Aroclor 1254	2305310	2306490	BA
Aroclor 1254	2305310	2306490	BA
Aroclor 1254	2305310	2306490	BA
Aroclor 1254	2305310	2306490	BA
Aroclor 1260	4032327	0	BA
Aroclor 1260	4032327	0	BA
Aroclor 1260	4032327	0	BA
Aroclor 1260	4032327	0	BA
Aroclor 1260	4032327	0	BA
Tetrachloro-m-xylene	3214306	3214306	
Decachlorobiphenyl	3206436	3206436	

==========

SAMPLE NO.

ND1-170613-01-YP-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151804009
Date Analyzed: 03/23/2018 20:33
Lab File ID: 032318.B\032318031.D
Initial wt/vol: 10.0066 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)	673	
11097-69-1	PCB-1254 (Aroclor 1254)	343	
11096-82-5	PCB-1260 (Aroclor 1260)	47.3	J
1336-36-3	PCB, Total	1060	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318031.D
Lab Smp Id: 40151804009 Client Smp ID: ND1-170613-01-YP-05
Inj Date : 23-MAR-2018 20:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804009 x3,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
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	10.007	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.025	9872	7166	0.726	0.02		
1.182	20035	15727	0.785	0.04		
2.010	13860	11194	0.808	0.03		
2.412	208283	171995	0.826	0.47		
2.484	3570962	3462673	0.970	8.21	$ 2 Tetrachloro-m-xylene	
2.789	14999	13310	0.887	0.03		
2.851	46952	38733	0.825	0.10		
2.973	15773	10636	0.674	0.03		
3.017	19028	18662	0.981	0.04		
3.054	291464	268931	0.923	0.67		
3.318	77261	72056	0.933	0.17		
3.344	128353	120402	0.938	0.29		
3.434	440830	421690	0.957	1.01		
3.519	325926	304765	0.935	0.75		
3.647	46541	39557	0.850	0.10		
3.731	225876	161144	0.713	0.51		
3.825	1076005	665597	0.619	2.47		
3.938	259302	215376	0.831	0.59		
3.993	297826	278465	0.935	0.68		
4.056	114203	103274	0.904	0.26		
4.134	29692	23686	0.798	0.06		
4.215	1497723	1375423	0.918	3.44		
4.261	1484294	1410679	0.950	3.41	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1641065	1341980	0.818	3.77	
4.417	784679	738094	0.941	1.80	
4.452	550015	513135	0.933	1.26	
4.545	1289856	1202399	0.932	2.96	6 Aroclor 1248
4.588	100958	99768	0.988	0.23	
4.617	125185	111840	0.893	0.28	
4.681	91295	79336	0.869	0.21	
4.733	147428	98298	0.667	0.33	
4.766	222147	209661	0.944	0.51	
4.812	1012767	960308	0.948	2.33	6 Aroclor 1248
4.846	991798	959030	0.967	2.28	
4.878	2551694	1549083	0.607	5.87	6 Aroclor 1248
4.955	408041	353527	0.866	0.93	
5.036	1056575	993873	0.941	2.43	6 Aroclor 1248
5.100	745232	651833	0.875	1.71	
5.160	1311723	1144260	0.872	3.01	7 Aroclor 1254
5.212	1054500	941687	0.893	2.42	
5.282	112817	109818	0.973	0.25	
5.306	210107	176997	0.842	0.48	
5.362	484844	431572	0.890	1.11	
5.406	946965	826861	0.873	2.17	7 Aroclor 1254
5.445	614283	548811	0.893	1.41	
5.479	122973	118606	0.964	0.28	
5.508	1836364	1609428	0.876	4.22	7 Aroclor 1254
5.575	69537	60026	0.863	0.16	
5.603	281966	225762	0.801	0.64	
5.675	358847	327139	0.912	0.82	
5.711	294977	217474	0.737	0.67	
5.741	328552	253353	0.771	0.75	
5.789	1980277	1572063	0.794	4.55	
5.886	239037	162538	0.680	0.55	
5.930	128138	85411	0.667	0.29	
5.993	271392	260909	0.961	0.62	
6.023	1040268	891538	0.857	2.39	7 Aroclor 1254
6.054	909636	765527	0.842	2.09	
6.122	32633	19739	0.605	0.07	
6.167	282273	177941	0.630	0.64	
6.226	100216	105280	1.051	0.23	
6.239	144887	114326	0.789	0.33	
6.300	1462583	1201729	0.822	3.36	7 Aroclor 1254
6.332	151814	139428	0.918	0.34	
6.370	86455	70083	0.811	0.19	
6.432	158035	107373	0.679	0.36	
6.508	482257	432490	0.897	1.10	
6.532	236993	214964	0.907	0.54	
6.558	105304	95774	0.910	0.24	
6.603	52389	42903	0.819	0.12	
6.659	34417	27466	0.798	0.07	
6.718	158693	132148	0.833	0.36	
6.757	163858	133904	0.817	0.37	
6.800	209077	178667	0.855	0.48	
6.839	89005	64169	0.721	0.20	
6.909	19485	17196	0.883	0.04	
6.939	78552	68913	0.877	0.18	
7.003	266731	244409	0.916	0.61	8 Aroclor 1260
7.034	36342	33292	0.916	0.08	
7.119	42526	18877	0.444	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.249	154534	134735	0.872	0.35	8 Aroclor 1260
7.281	76758	57910	0.754	0.17	
7.332	18121	14210	0.784	0.04	
7.386	122369	98186	0.802	0.28	
7.441	118613	97828	0.825	0.27	8 Aroclor 1260
7.579	10423	10451	1.003	0.02	
7.690	32684	28625	0.876	0.07	
7.727	47707	36705	0.769	0.10	
7.770	16347	12989	0.795	0.03	
7.802	35888	18301	0.510	0.08	
7.898	69918	52569	0.752	0.16	8 Aroclor 1260
8.047	26630	17159	0.644	0.06	
8.272	70359	63865	0.908	0.16	
8.377	18402	12635	0.687	0.04	
8.569	3649450	3101418	0.850	8.90	$ 12 Decachlorobiphenyl
8.942	16987	12615	0.743	0.03	
9.166	14550	11865	0.815	0.03	
9.463	13012	11943	0.918	0.02	
9.957	15756	14425	0.916	0.03	
	43454032	37252591		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318031.D
Lab Smp Id: 40151804009 Client Smp ID: ND1-170613-01-YP-05
Inj Date : 23-MAR-2018 20:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804009 x3,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
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	10.007	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	3570961	0.02896		43		

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1484293	0.63351	950	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1289856	0.31079	460	0.00- 20.00	86.90	BA
4.812	4.812	0.000	1012766	0.49888	750	0.00- 20.00	68.23	BA
4.878	4.879	-0.001	2551693	0.50655	760	0.00- 20.00	171.91	BA
5.035	5.038	-0.003	1056574	0.29443	440	0.00- 20.00	71.18	BA
Average of Peak Concentrations =					670			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1311723	0.25056	380	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	946965	0.22017	330	0.00- 20.00	72.19	BA
5.508	5.510	-0.002	1836363	0.23646	350	0.00- 20.00	140.00	BA
6.023	6.027	-0.004	1040267	0.21362	320	0.00- 20.00	79.31	BA
6.299	6.299	0.000	1462583	0.22477	340	0.00- 20.00	111.50	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
7.003	7.006	-0.003	266731	0.02663	40	0.00- 20.00	18.24	BA
7.249	7.251	-0.002	154534	0.03233	48	0.00- 20.00	10.57	BA
7.440	7.443	-0.003	118612	0.04069	61	0.00- 20.00	8.11	BA
7.898	7.901	-0.003	69917	0.02650	40	0.00- 20.00	4.78	BA
Average of Peak Concentrations =					47			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	3649449	0.03331	50			

QC Flag Legend

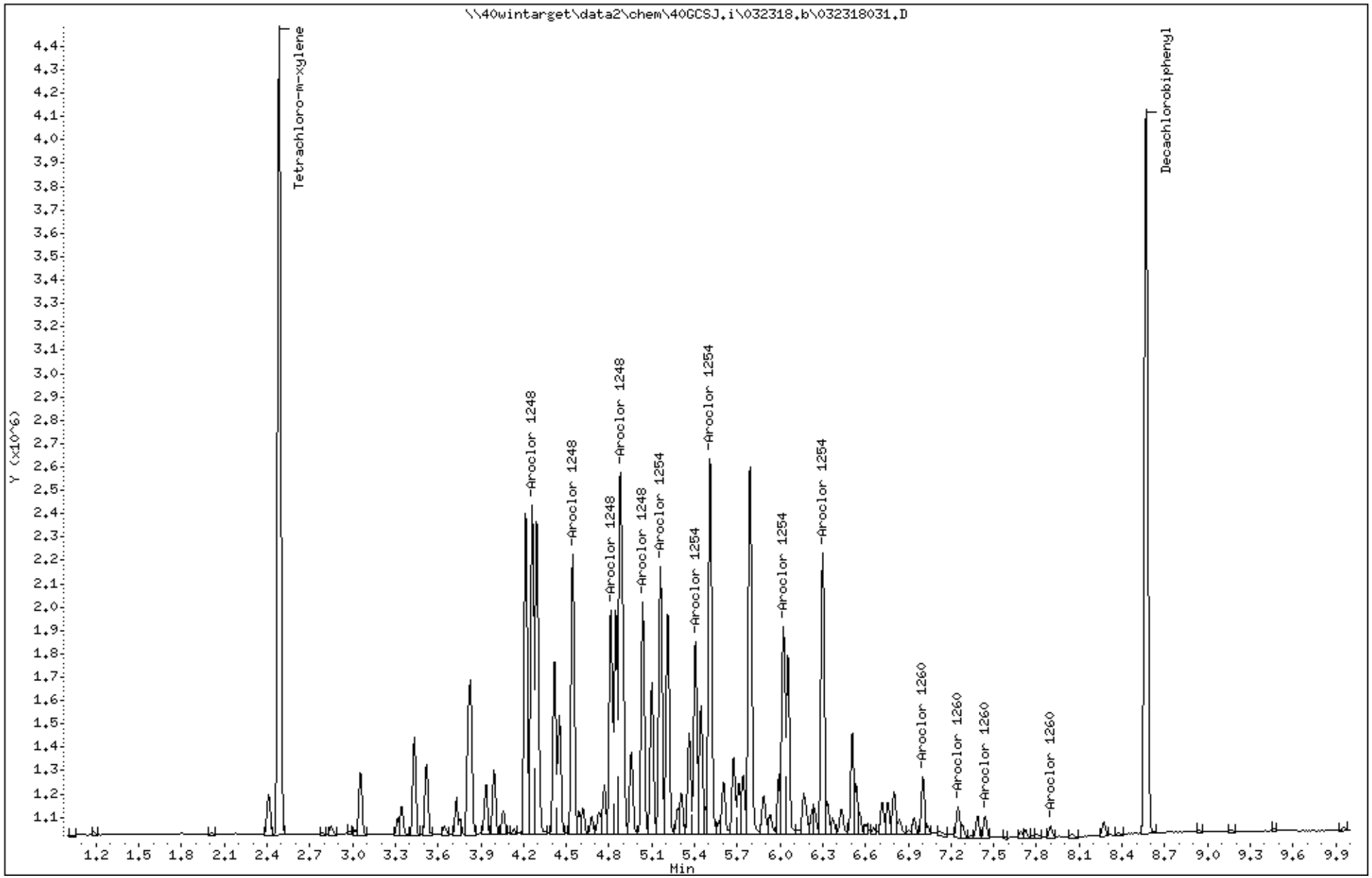
M - Compound response manually integrated.

Review Codes Legend

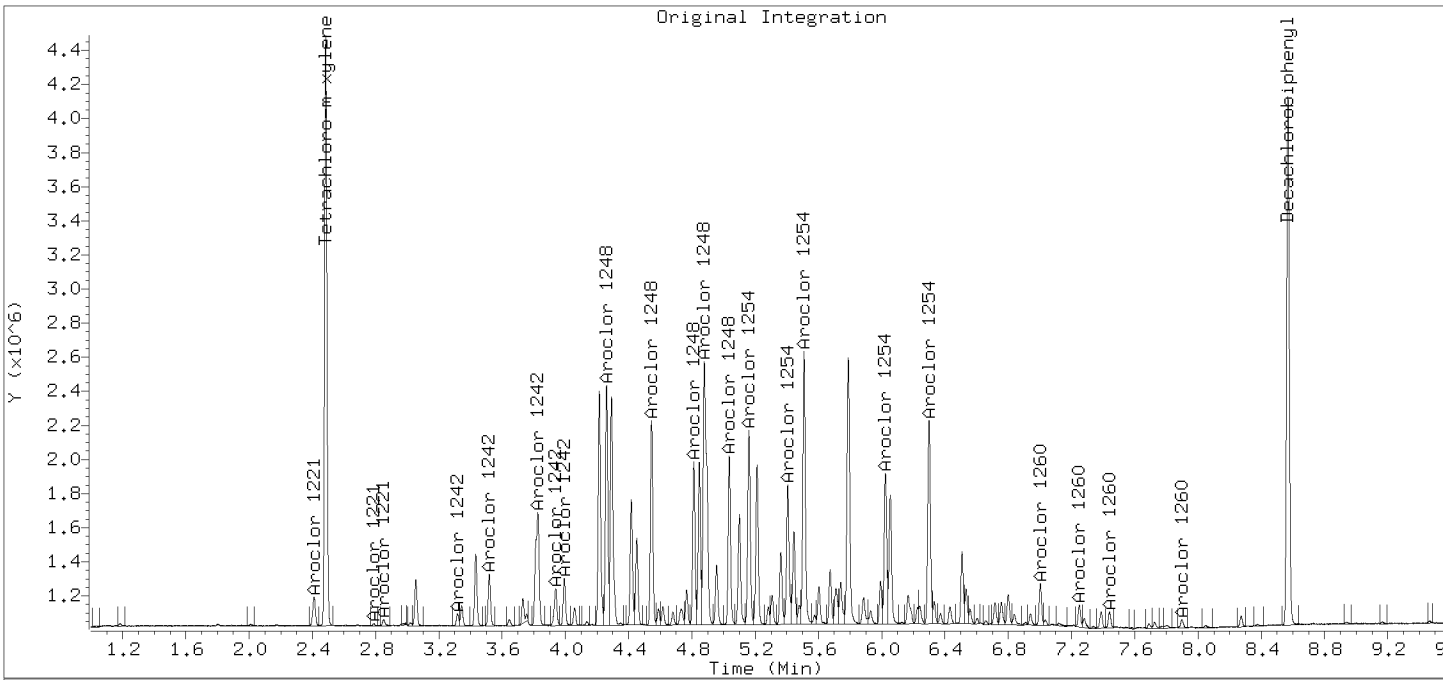
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

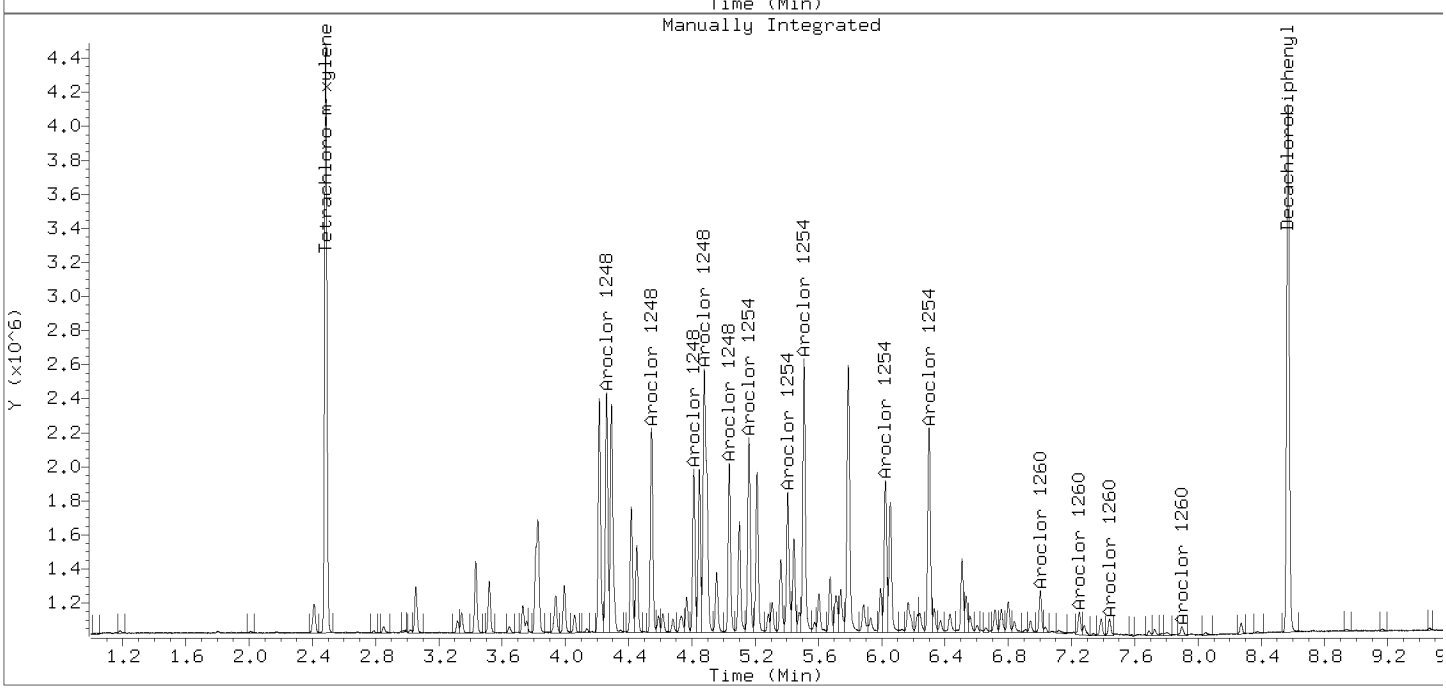
Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318031.D
Date : 23-MAR-2018 20:33
Client ID: ND1-170613-01-YP-05
Sample Info: 40151804009 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 20:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	77260	0	
Aroclor 1016	77260	0	
Aroclor 1016	77260	0	
Aroclor 1016	77260	0	
Aroclor 1016	77260	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	46951	0	
Aroclor 1232	46951	0	
Aroclor 1232	46951	0	
Aroclor 1232	46951	0	

Aroclor 1232	46951	0	
Aroclor 1242	77260	0	
Aroclor 1242	77260	0	
Aroclor 1242	77260	0	
Aroclor 1242	77260	0	
Aroclor 1242	77260	0	
Aroclor 1248	1476955	1484293	BA
Aroclor 1248	1476955	1484293	BA
Aroclor 1248	1476955	1484293	BA
Aroclor 1248	1476955	1484293	BA
Aroclor 1248	1476955	1484293	BA
Aroclor 1254	1294145	1311723	BA
Aroclor 1254	1294145	1311723	BA
Aroclor 1254	1294145	1311723	BA
Aroclor 1254	1294145	1311723	BA
Aroclor 1254	1294145	1311723	BA
Aroclor 1260	1430819	0	BA
Aroclor 1260	1430819	0	BA
Aroclor 1260	1430819	0	BA
Aroclor 1260	1430819	0	BA
Aroclor 1260	1430819	0	BA
Tetrachloro-m-xylene	3570961	3570961	
Decachlorobiphenyl	3649449	3649449	

==========

SAMPLE NO.

ND1-170613-01-YP-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/16/2017 10:05
Matrix: Tissue SDG No.: 40151804
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151804010
Date Analyzed: 03/23/2018 20:49
Lab File ID: 032318.B\032318032.D
Initial wt/vol: 10.0363 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	1210	
11097-69-1	PCB-1254 (Aroclor 1254)	615	
11096-82-5	PCB-1260 (Aroclor 1260)	117	J
1336-36-3	PCB, Total	1940	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318032.D
Lab Smp Id: 40151804010 Client Smp ID: ND1-170613-01-YP-04
Inj Date : 23-MAR-2018 20:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804010 x5,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.036	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.799	9488	7504	0.791	0.02		
2.410	141348	118098	0.836	0.30		
2.484	2023804	1967422	0.972	4.39	$ 2 Tetrachloro-m-xylene	
2.785	11467	12254	1.069	0.02		
2.850	40190	36732	0.914	0.08		
3.019	11534	12494	1.083	0.02		
3.055	249920	232421	0.930	0.54		
3.318	78385	79300	1.012	0.17		
3.343	155402	145003	0.933	0.33		
3.433	475596	461120	0.970	1.03		
3.519	421518	389675	0.924	0.91		
3.644	66476	58694	0.883	0.14		
3.731	239453	234350	0.979	0.51		
3.755	80239	85962	1.071	0.17		
3.813	466967	625457	1.339	1.01		
3.826	785778	707486	0.900	1.70		
3.937	330684	256438	0.775	0.71		
3.993	420838	395074	0.939	0.91		
4.057	152462	144354	0.947	0.33		
4.136	33733	32394	0.960	0.07		
4.214	1776443	1556851	0.876	3.85		
4.260	1781860	1664110	0.934	3.86	6 Aroclor 1248	BA
4.290	2388374	2008416	0.841	5.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.348	29822	22185	0.744	0.06	
4.417	717536	670913	0.935	1.55	
4.451	635811	598445	0.941	1.38	
4.545	1621574	1504991	0.928	3.52	6 Aroclor 1248
4.589	193765	177853	0.918	0.42	
4.616	144466	130324	0.902	0.31	
4.678	148715	134454	0.904	0.32	
4.734	228138	174754	0.766	0.49	
4.766	275464	263376	0.956	0.59	
4.811	1022415	978732	0.957	2.22	6 Aroclor 1248
4.846	863230	841806	0.975	1.87	
4.878	2525997	1392921	0.551	5.94	6 Aroclor 1248
4.955	594493	536977	0.903	1.29	
5.035	962877	935482	0.972	2.09	6 Aroclor 1248
5.099	1016242	873561	0.860	2.20	
5.160	1425361	1224094	0.859	3.09	7 Aroclor 1254
5.211	1115620	996592	0.893	2.42	
5.283	156369	153060	0.979	0.33	
5.306	287063	243200	0.847	0.62	
5.361	417226	377517	0.905	0.90	
5.404	1003823	902636	0.899	2.17	7 Aroclor 1254
5.445	597383	508366	0.851	1.29	
5.477	219454	197726	0.901	0.47	
5.508	1872022	1657295	0.885	4.06	7 Aroclor 1254
5.575	118400	102570	0.866	0.25	
5.603	241222	210719	0.874	0.52	
5.673	624034	596214	0.955	1.35	
5.708	385656	315457	0.818	0.83	
5.741	419111	333583	0.796	0.91	
5.789	2072213	1600040	0.772	4.49	
5.883	273534	212152	0.776	0.59	
5.928	187210	138708	0.741	0.40	
5.992	420388	398771	0.949	0.91	
6.024	1047387	905444	0.864	2.27	7 Aroclor 1254
6.053	1125290	986742	0.877	2.44	
6.168	211978	186441	0.880	0.46	
6.183	148995	167508	1.124	0.32	
6.226	102809	124082	1.207	0.22	
6.242	204894	147386	0.719	0.44	
6.299	1776403	1460228	0.822	3.85	7 Aroclor 1254
6.332	173432	155698	0.898	0.37	
6.370	84241	66808	0.793	0.18	
6.430	225216	184637	0.820	0.48	
6.508	590767	547430	0.927	1.28	
6.533	257700	238913	0.927	0.55	
6.559	150226	137178	0.913	0.32	
6.603	63305	46680	0.737	0.13	
6.657	44358	38150	0.860	0.09	
6.715	230808	200494	0.869	0.50	
6.756	252261	212176	0.841	0.54	
6.800	249042	221518	0.889	0.54	
6.837	114025	81494	0.715	0.24	
6.910	27275	25928	0.951	0.05	
6.940	85866	78874	0.919	0.18	
7.003	390208	345020	0.884	0.84	8 Aroclor 1260
7.032	51478	48718	0.946	0.11	
7.118	28442	21033	0.740	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.248	210862	180397	0.856	0.45	8 Aroclor 1260
7.279	93440	74700	0.799	0.20	
7.337	14563	11146	0.765	0.03	
7.387	192094	161196	0.839	0.41	
7.440	199581	165560	0.830	0.43	8 Aroclor 1260
7.548	13569	12774	0.941	0.02	
7.687	49136	44730	0.910	0.10	
7.724	50878	41467	0.815	0.11	
7.798	33309	20677	0.621	0.07	
7.897	94071	76053	0.808	0.20	8 Aroclor 1260
7.960	20233	11755	0.581	0.04	
8.045	17897	15230	0.851	0.03	
8.271	87316	78242	0.896	0.18	
8.568	2367216	2081682	0.879	5.14	$ 12 Decachlorobiphenyl
9.163	15430	12497	0.810	0.03	
	46054591	40253769		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318032.D
Lab Smp Id: 40151804010 Client Smp ID: ND1-170613-01-YP-04
Inj Date : 23-MAR-2018 20:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151804010 x5,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.036	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	2023804	0.01641	41			
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	1781860	0.76051	1900	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1621573	0.39071	970	0.00- 20.00	91.00	BA
4.811	4.812	-0.001	1022414	0.50363	1200	0.00- 20.00	57.38	BA
4.878	4.879	-0.001	2525996	0.50144	1200	0.00- 20.00	141.76	BA
5.035	5.038	-0.003	962877	0.26832	670	0.00- 20.00	54.04	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1425361	0.27226	680	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	1003822	0.23339	580	0.00- 20.00	70.43	BA
5.508	5.510	-0.002	1872021	0.24105	600	0.00- 20.00	131.34	BA
6.023	6.027	-0.004	1047387	0.21508	540	0.00- 20.00	73.48	BA
6.298	6.299	-0.001	1776402	0.27299	680	0.00- 20.00	124.63	BA
Average of Peak Concentrations =					620			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	390207	0.03896	97	0.00- 20.00	21.97	BA
7.248	7.251	-0.003	210862	0.04412	110	0.00- 20.00	11.87	BA
7.440	7.443	-0.003	199580	0.06846	170	0.00- 20.00	11.24	BA
7.897	7.901	-0.004	94071	0.03565	89	0.00- 20.00	5.30	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	2367215	0.02161	54			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318032.D

Date : 23-MAR-2018 20:49

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

Instrument: 40GCSJ.i

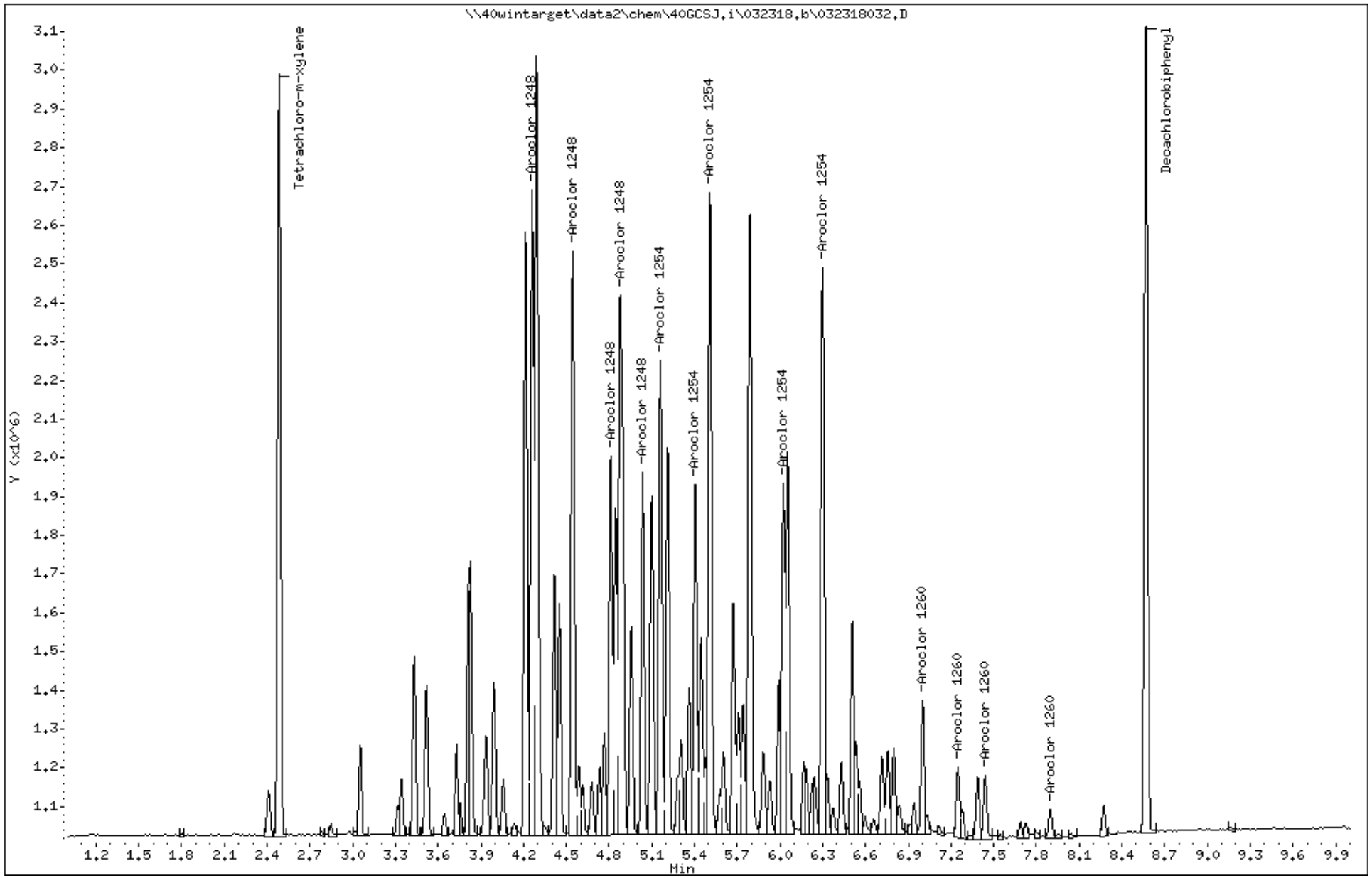
Sample Info: 40151804010 x5,

Volume Injected (uL): 1.0

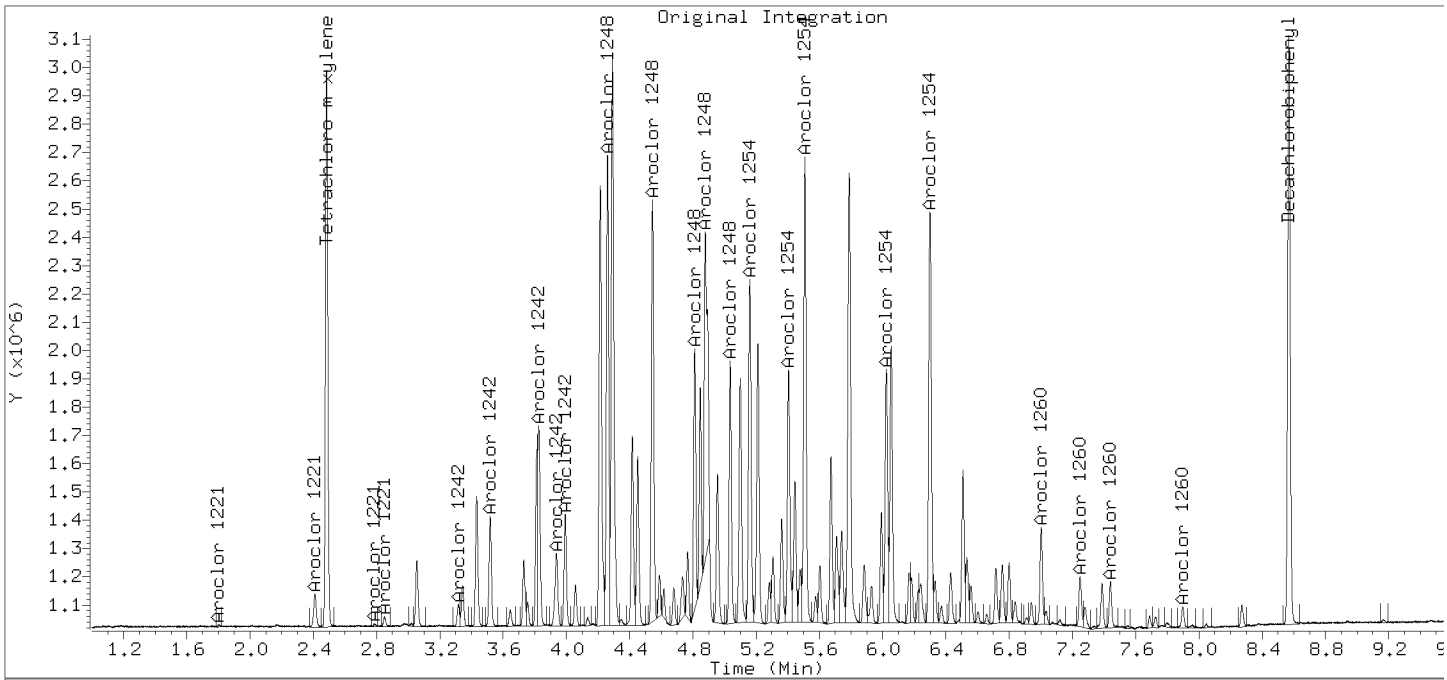
Operator: BLM

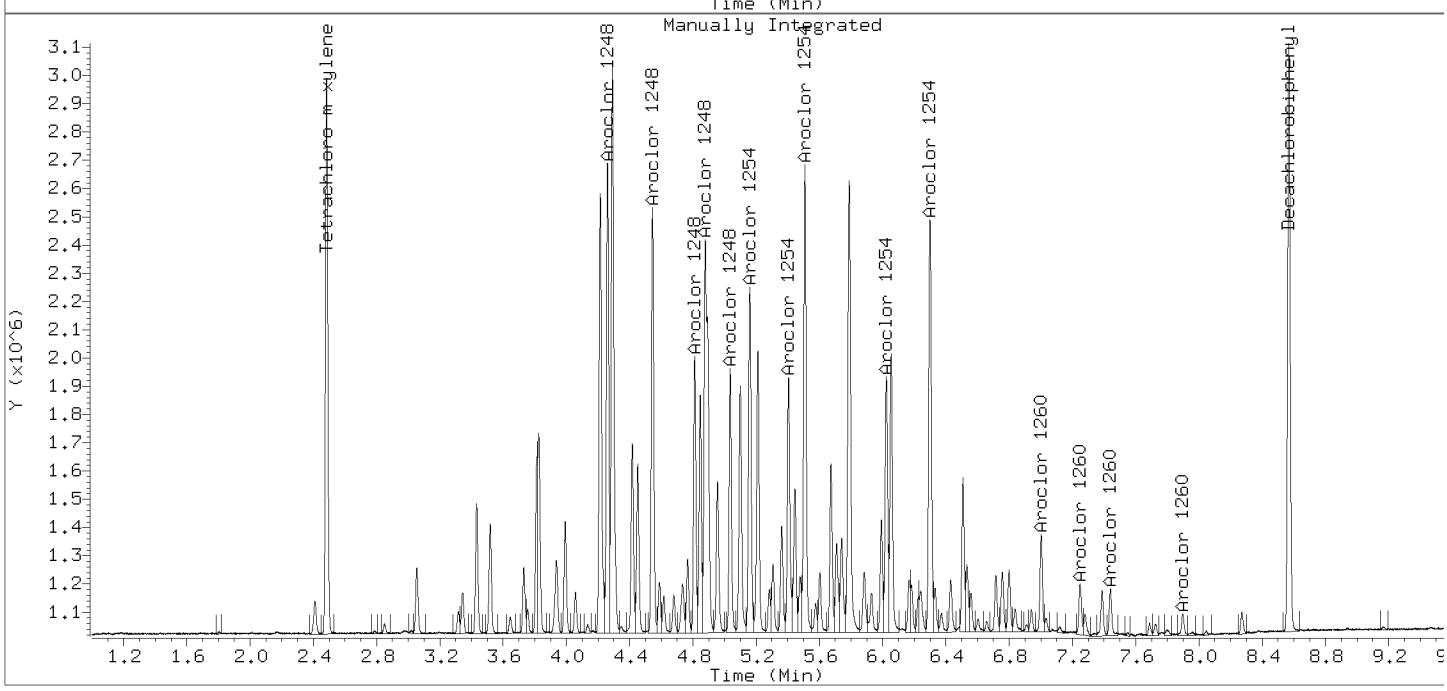
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 20:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151804010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	78385	0	
Aroclor 1016	78385	0	
Aroclor 1016	78385	0	
Aroclor 1016	78385	0	
Aroclor 1016	78385	0	
Aroclor 1221	9487	0	
Aroclor 1221	9487	0	
Aroclor 1221	9487	0	
Aroclor 1221	9487	0	
Aroclor 1221	9487	0	
Aroclor 1232	40190	0	
Aroclor 1232	40190	0	
Aroclor 1232	40190	0	
Aroclor 1232	40190	0	

Aroclor 1232	40190	0	
Aroclor 1242	78385	0	
Aroclor 1242	78385	0	
Aroclor 1242	78385	0	
Aroclor 1242	78385	0	
Aroclor 1242	78385	0	
Aroclor 1248	1775147	1781860	BA
Aroclor 1248	1775147	1781860	BA
Aroclor 1248	1775147	1781860	BA
Aroclor 1248	1775147	1781860	BA
Aroclor 1248	1775147	1781860	BA
Aroclor 1254	1389256	1425361	BA
Aroclor 1254	1389256	1425361	BA
Aroclor 1254	1389256	1425361	BA
Aroclor 1254	1389256	1425361	BA
Aroclor 1254	1389256	1425361	BA
Aroclor 1260	1751126	0	BA
Aroclor 1260	1751126	0	BA
Aroclor 1260	1751126	0	BA
Aroclor 1260	1751126	0	BA
Aroclor 1260	1751126	0	BA
Tetrachloro-m-xylene	2023804	2023804	
Decachlorobiphenyl	2367215	2367215	

==========

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151804

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.: 40151804

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.: 40151804

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

LAB FILE ID

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

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

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

05/14/2018 8:11

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151804

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.: 40151804

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.: 40151804

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.: 40151804

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

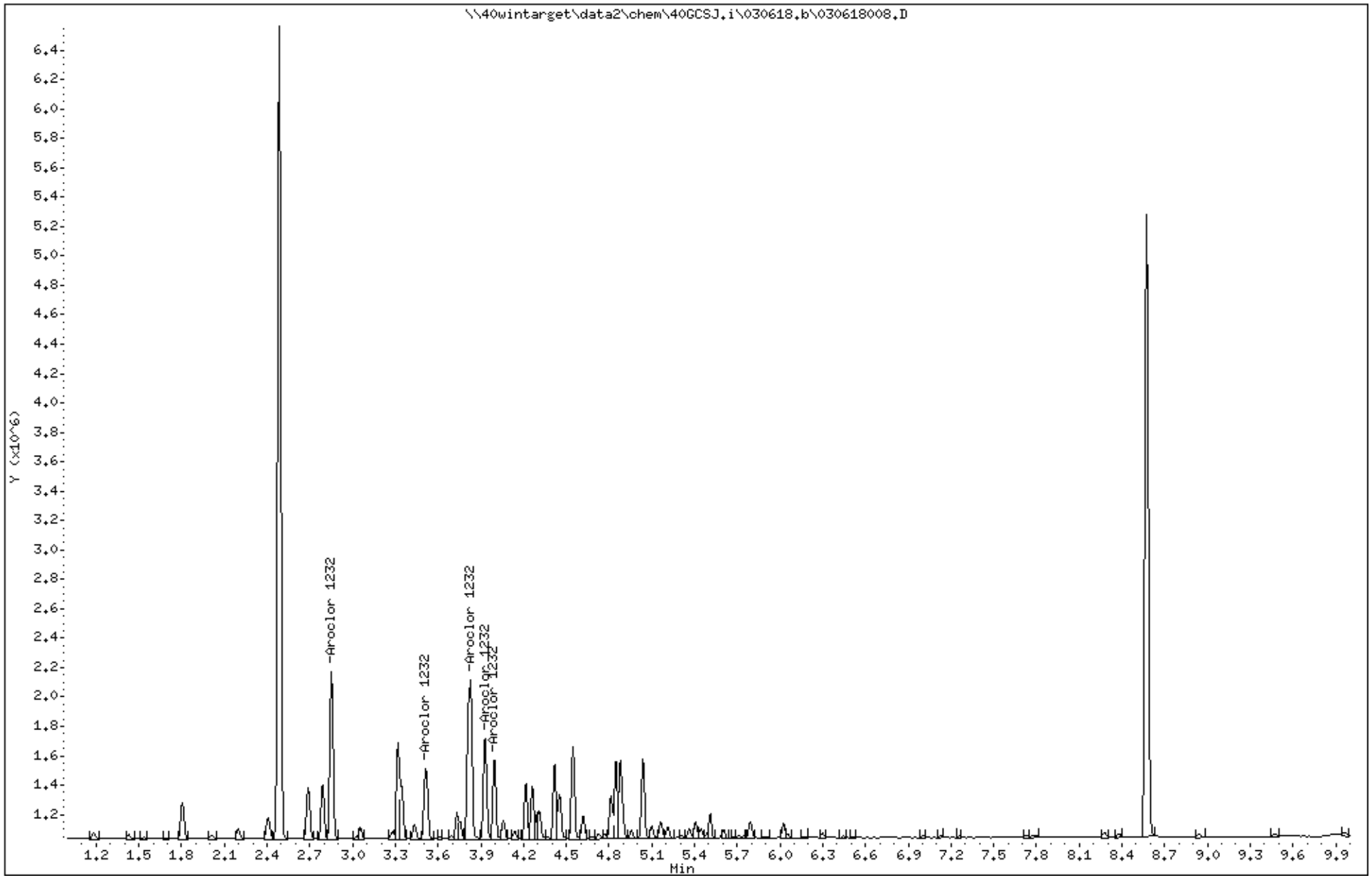
M - Compound response manually integrated.

Review Codes Legend

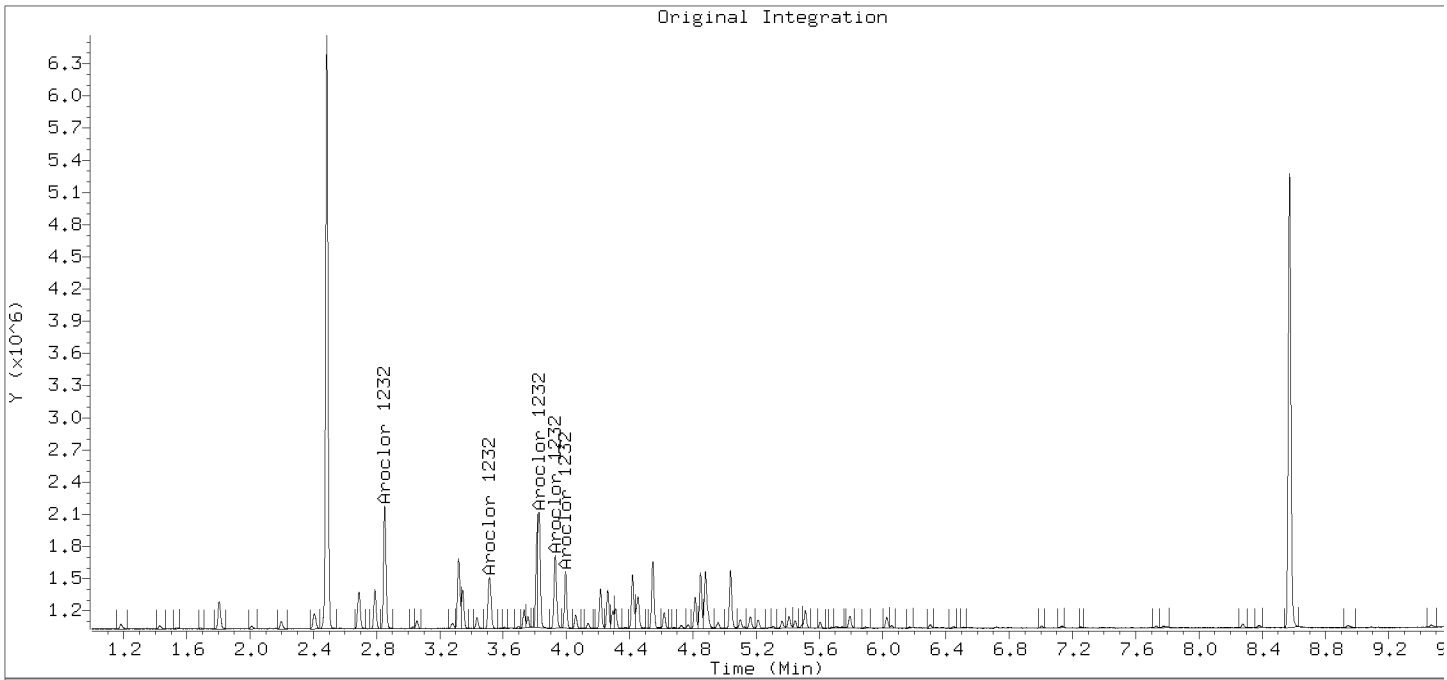
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

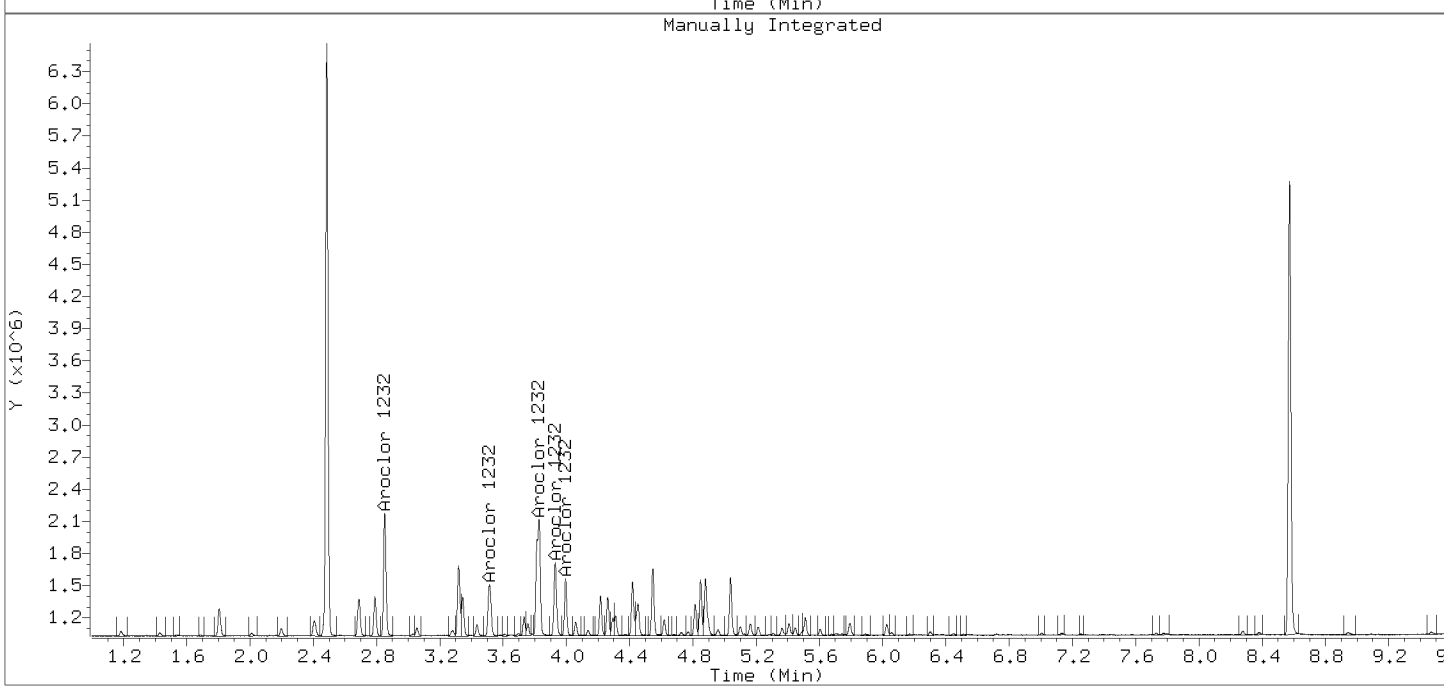
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

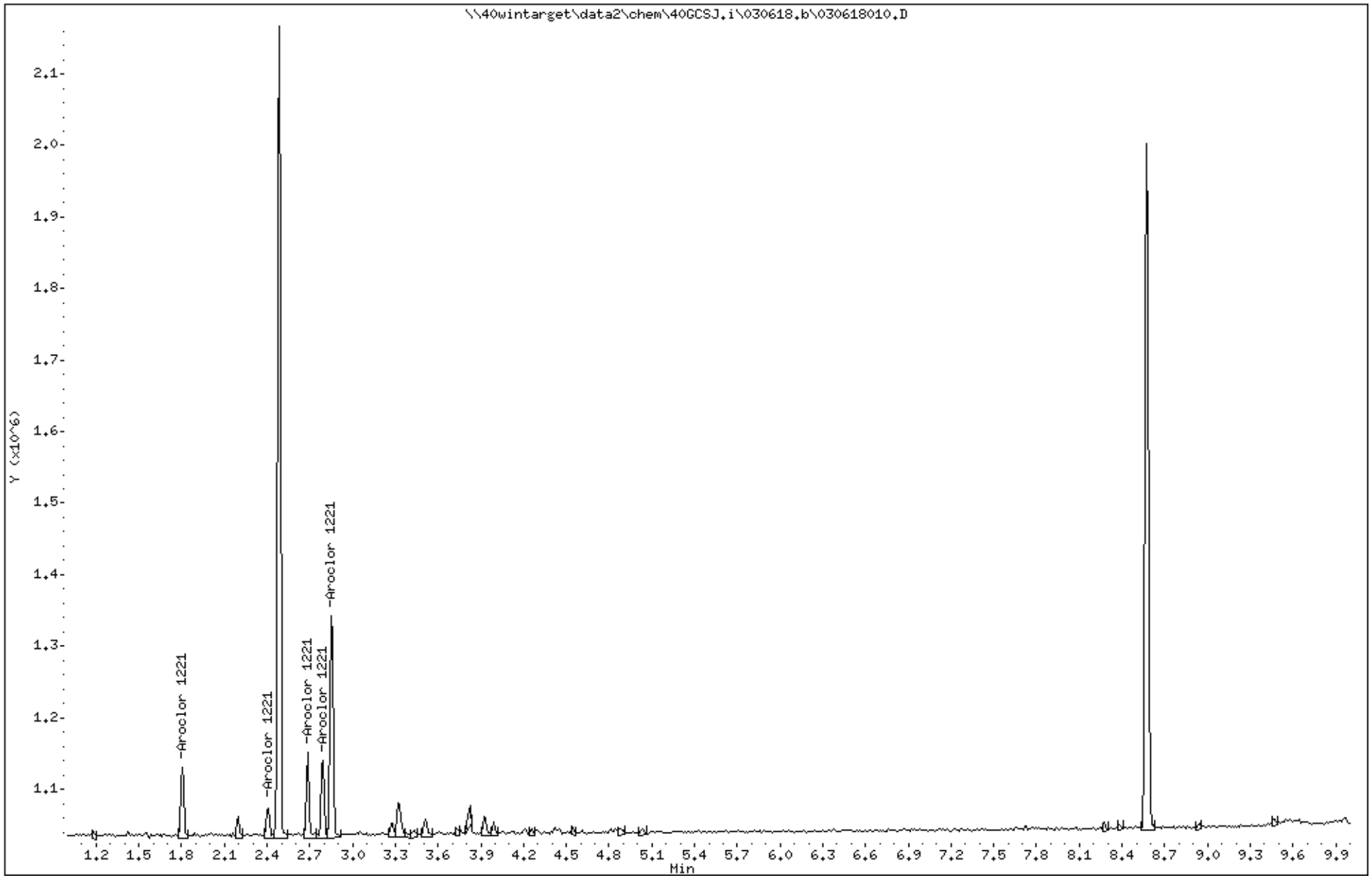
M - Compound response manually integrated.

Review Codes Legend

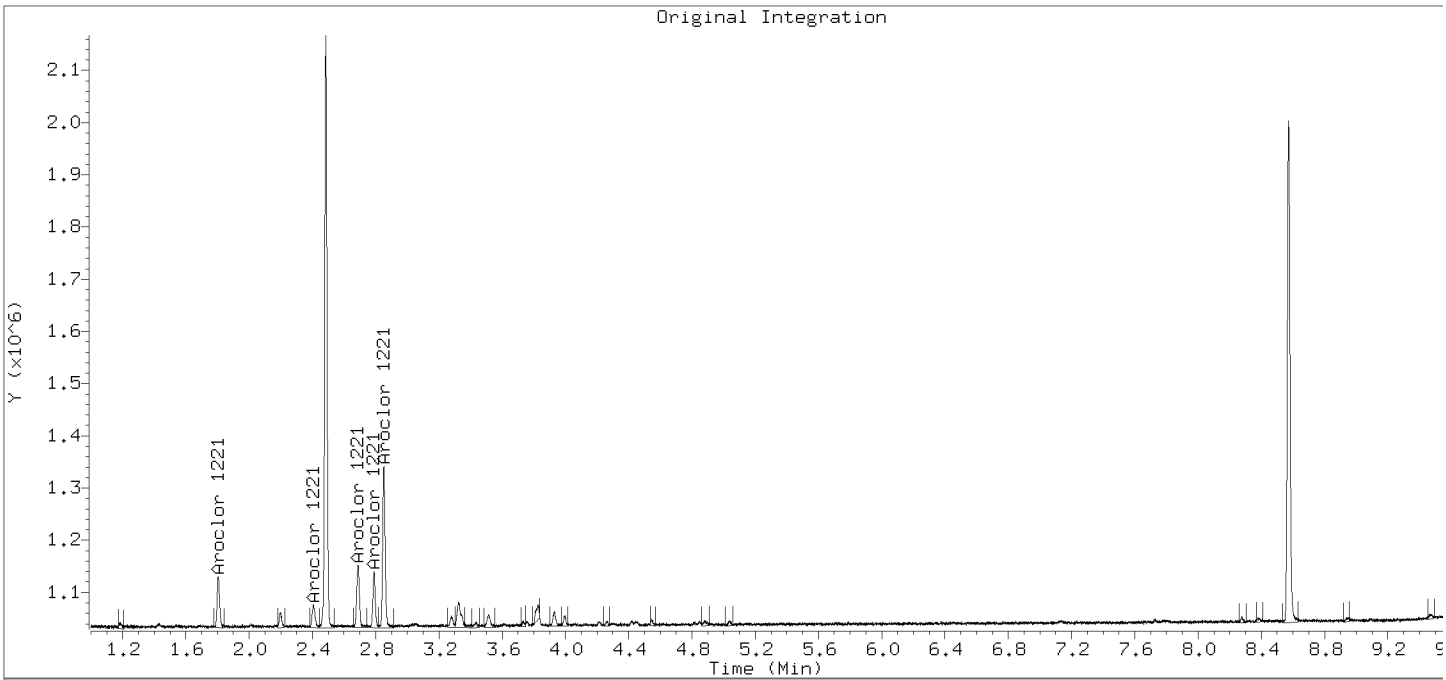
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

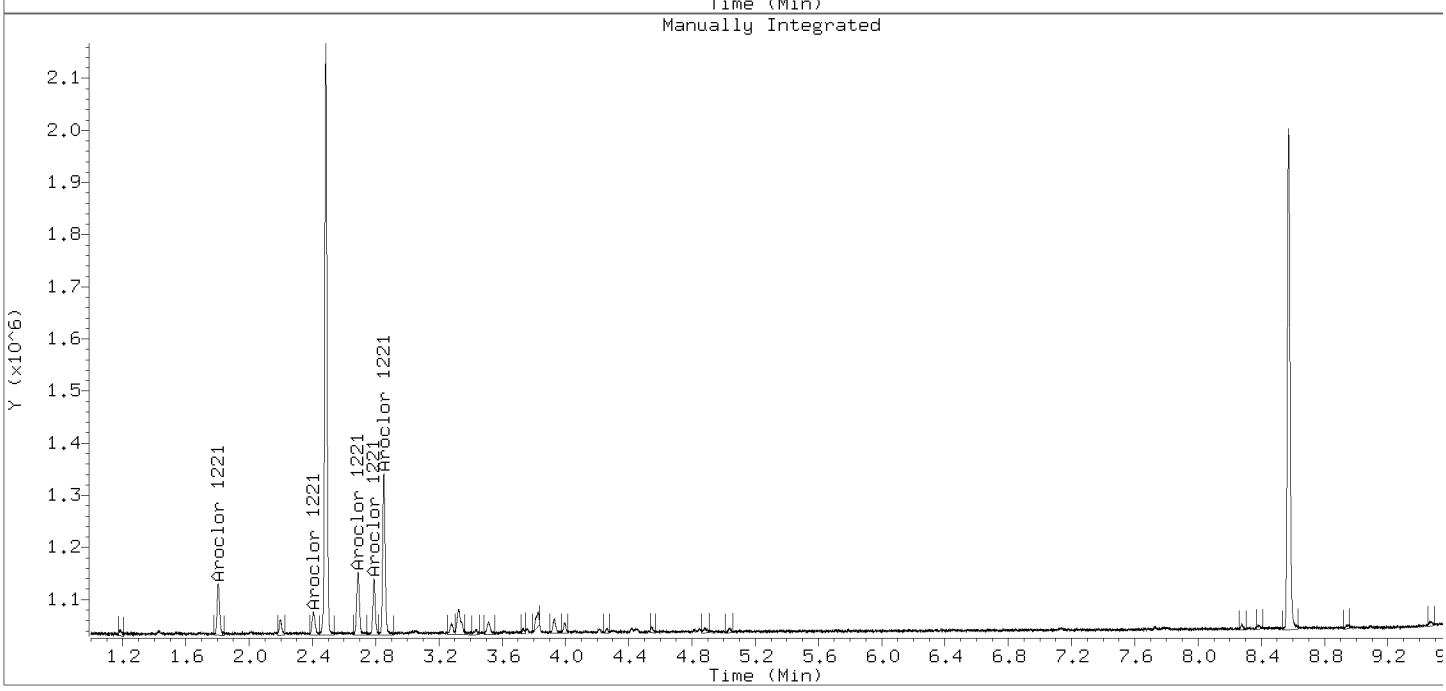
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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

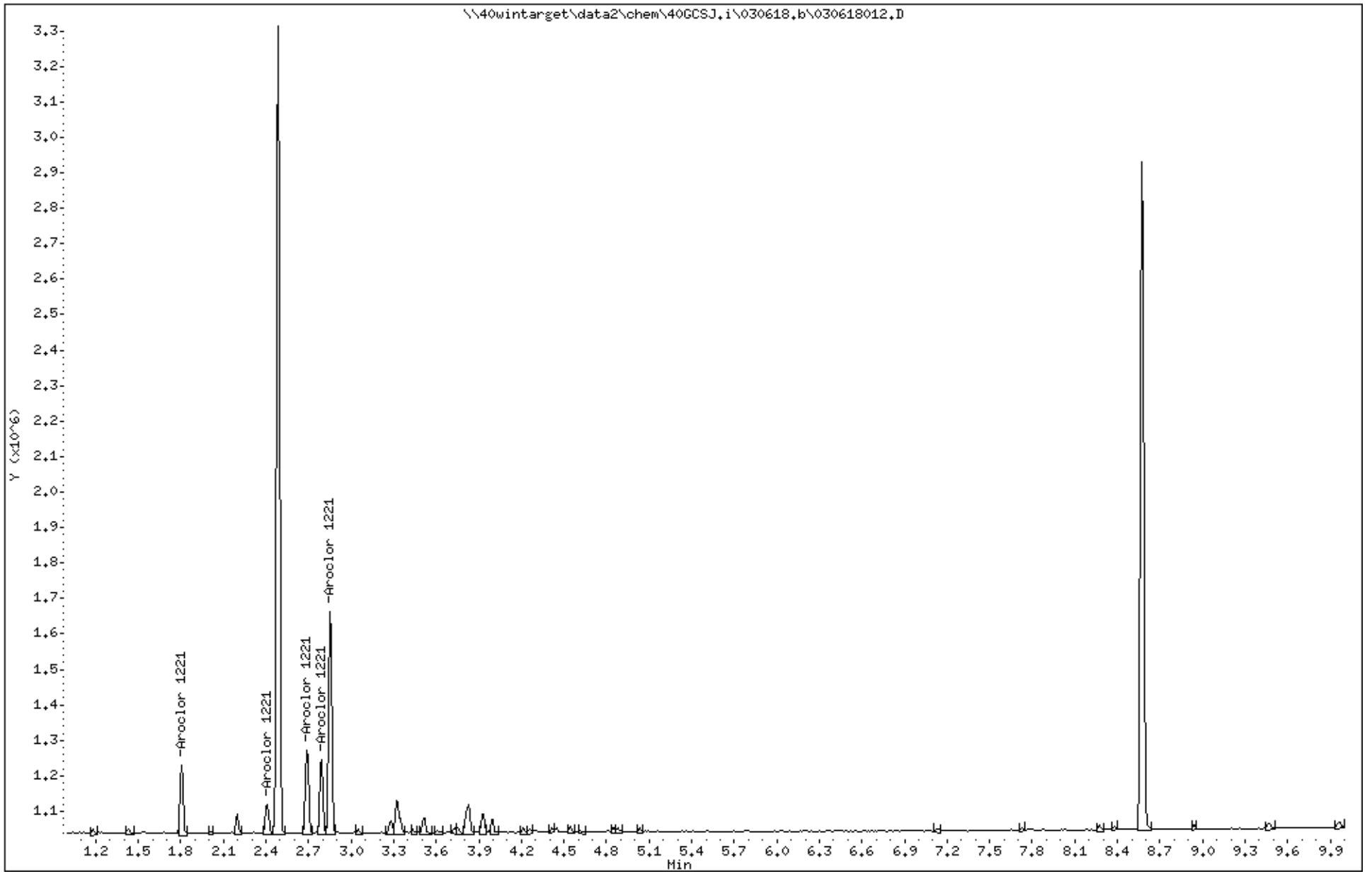
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

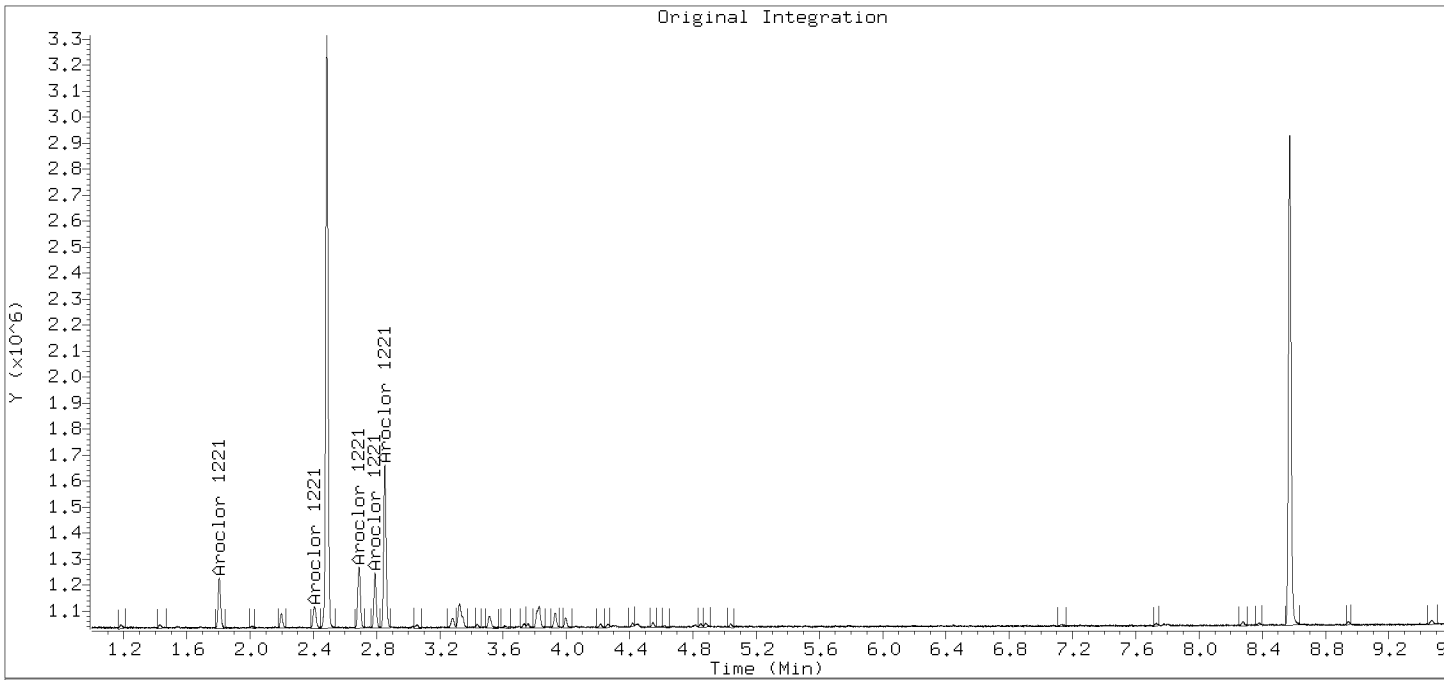
Operator: BLM

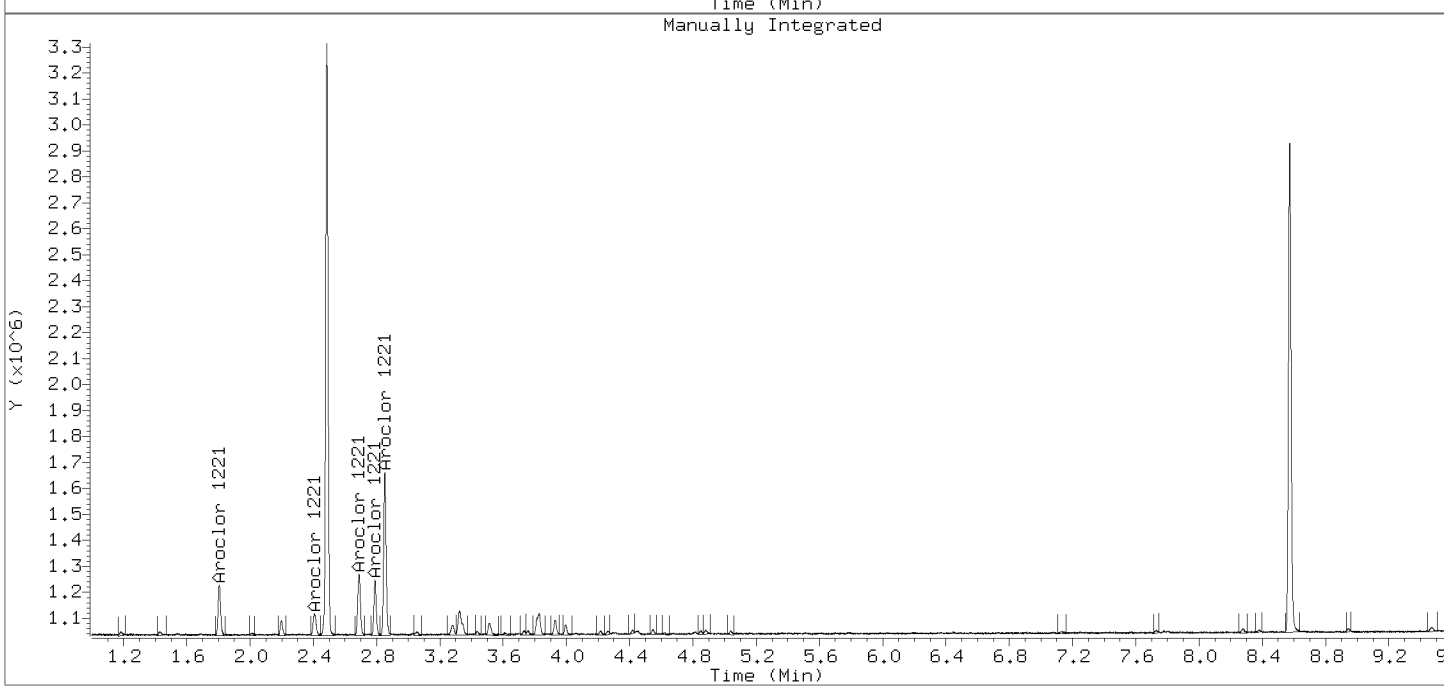
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D

Date : 06-MAR-2018 12:39

Client ID: 1221-CAL3F

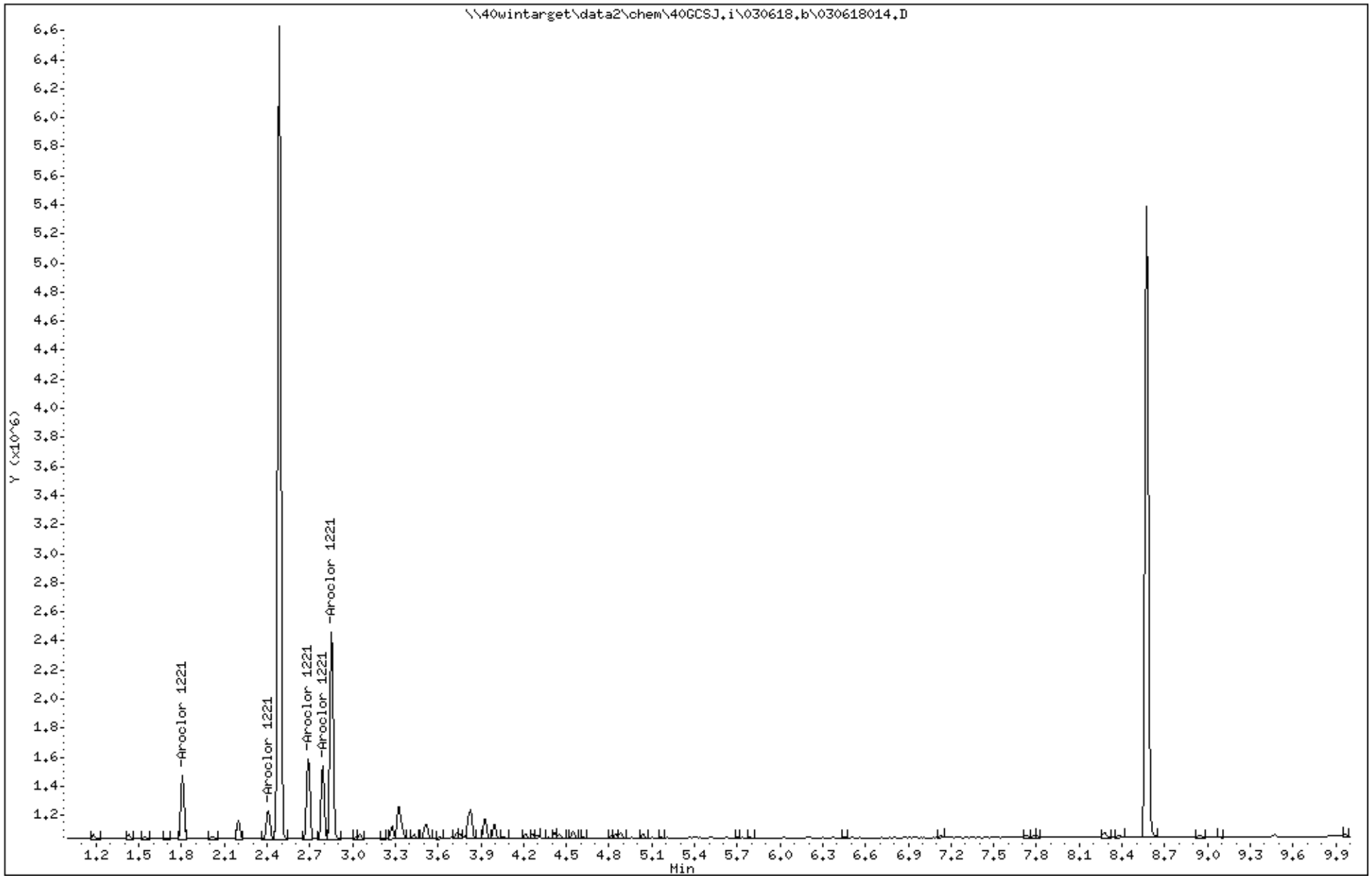
Instrument: 40GCSJ.i

Sample Info: 1221-CAL3F, 185538:1

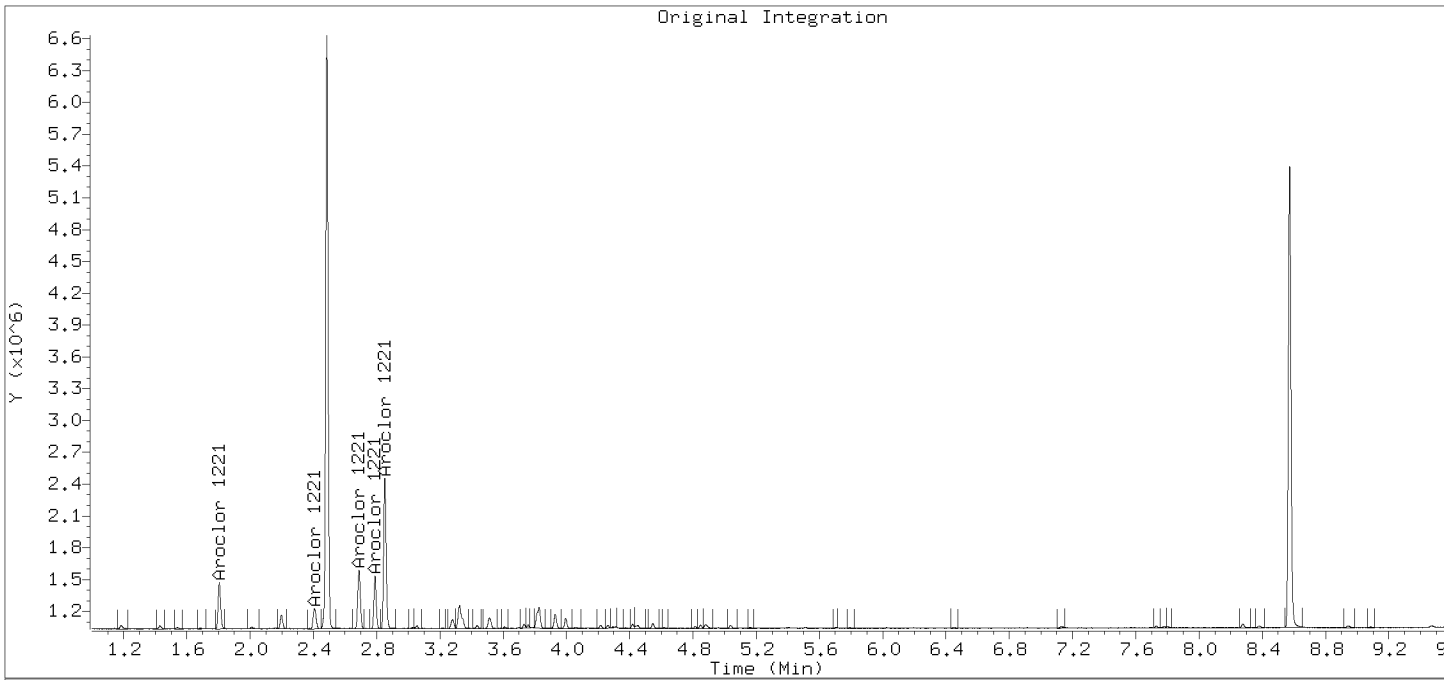
Operator: BLM

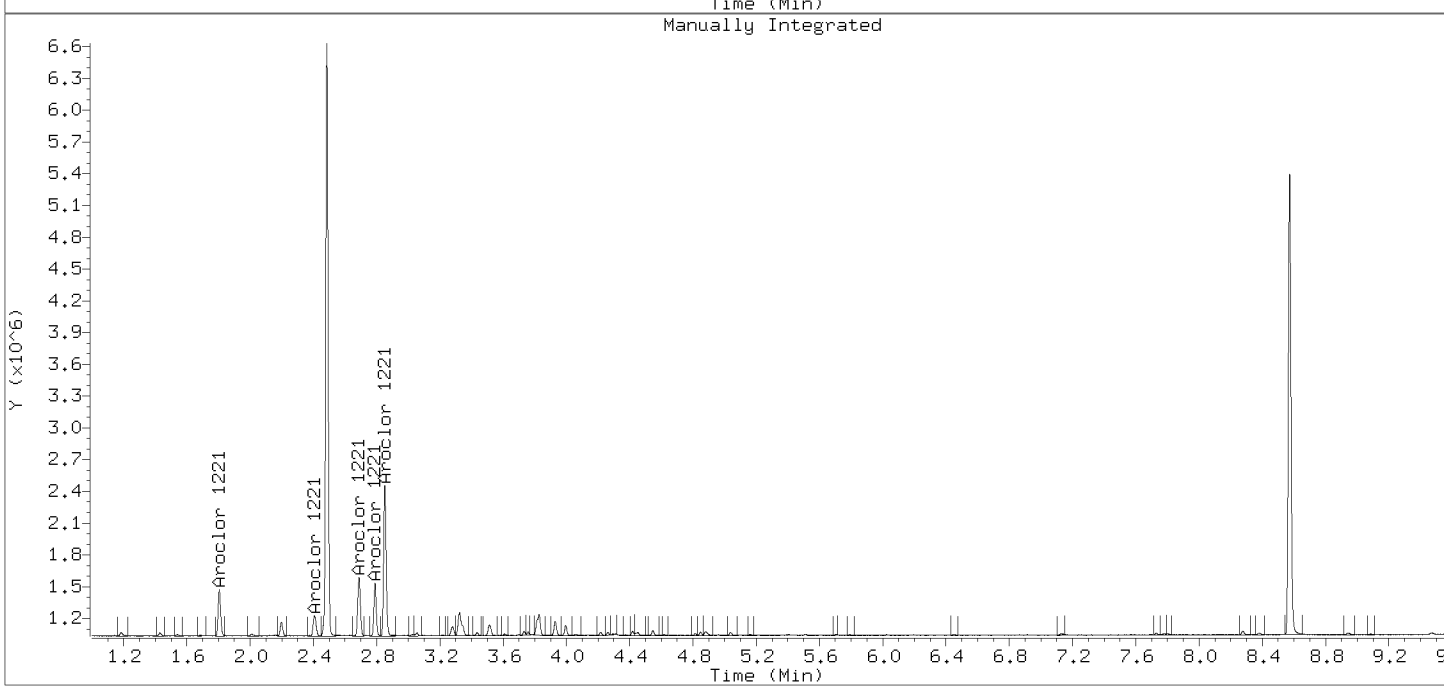
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

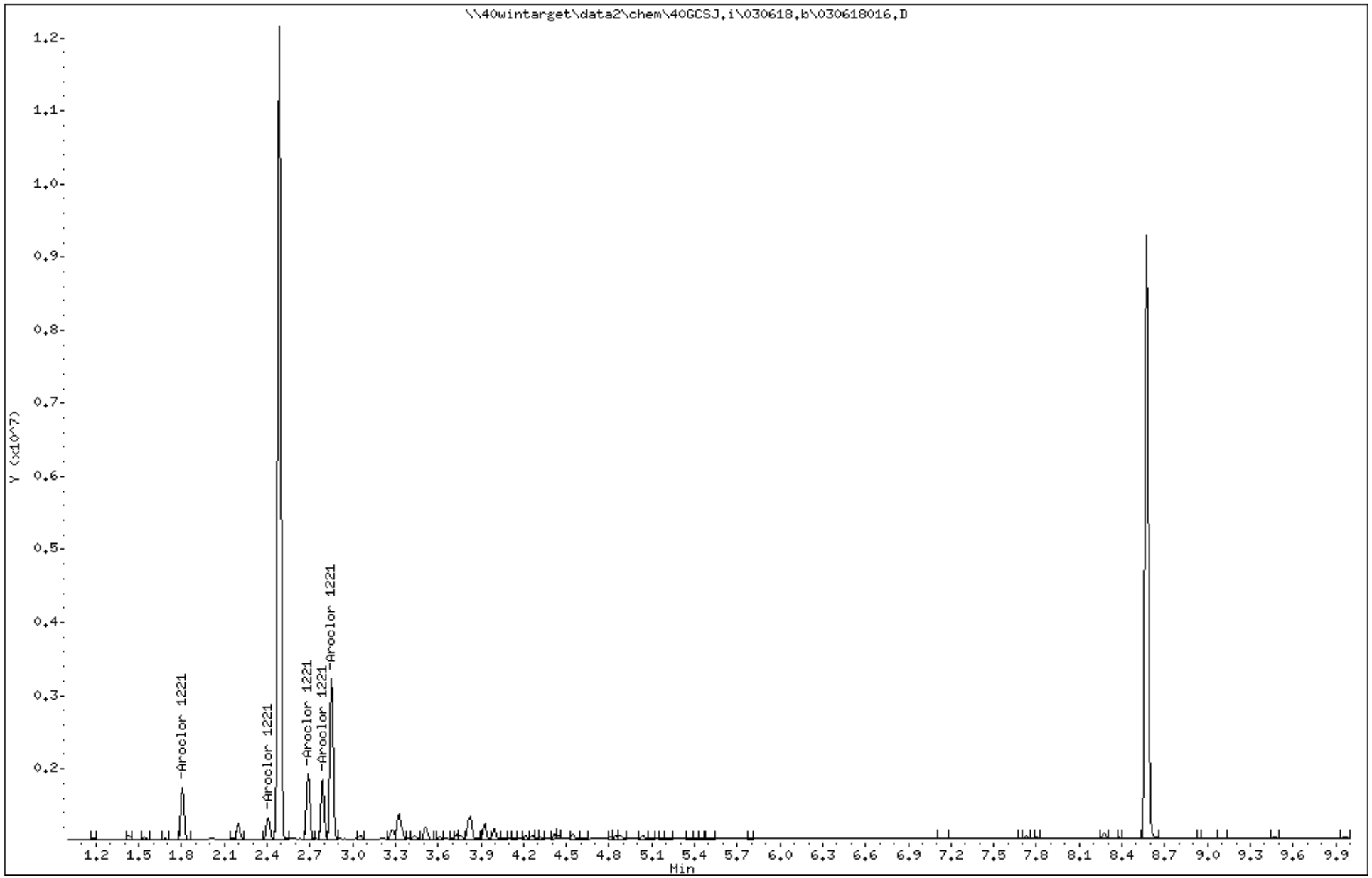
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

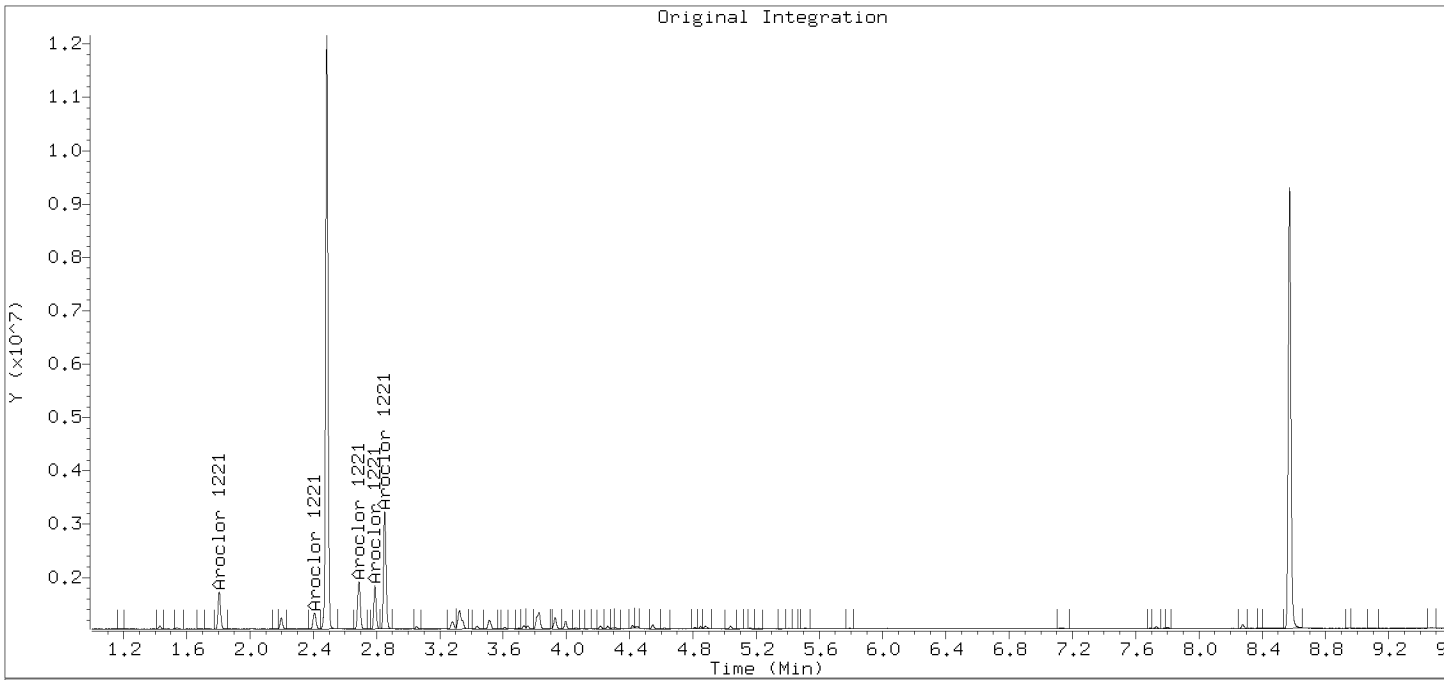
Operator: BLM

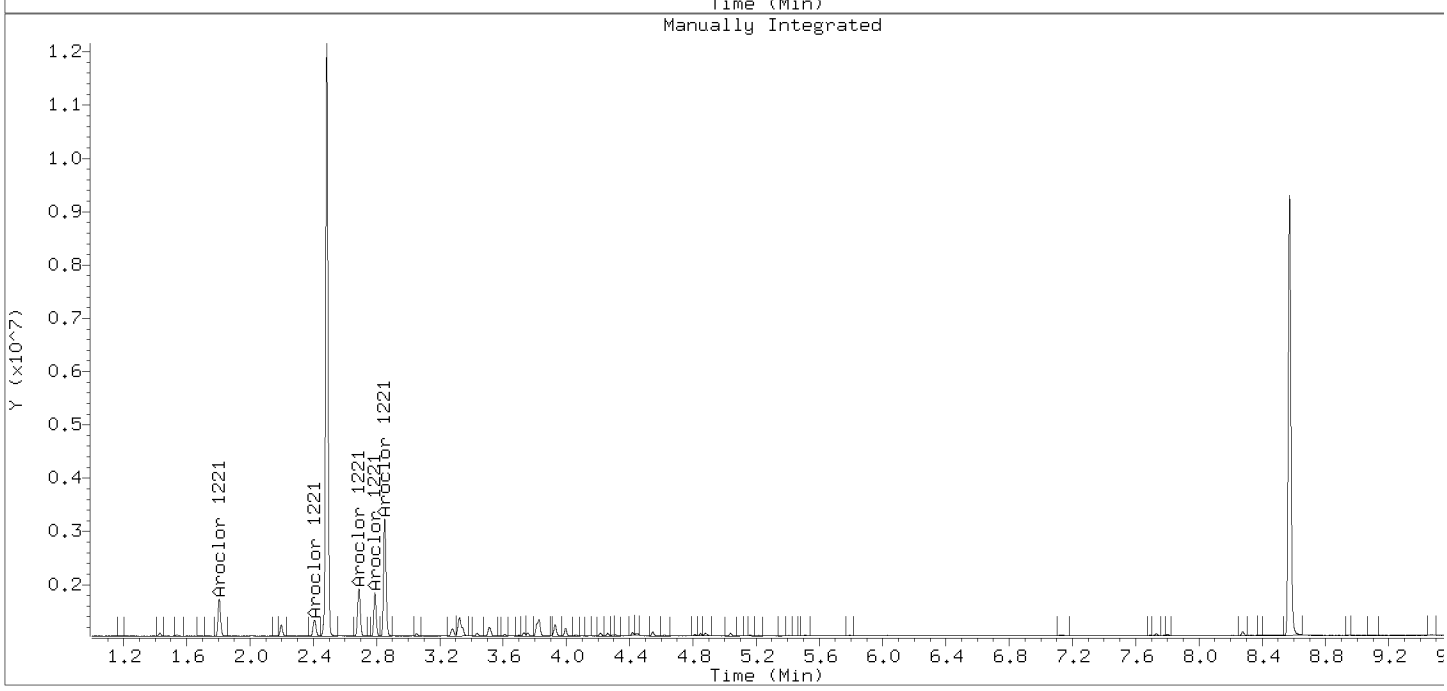
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 13:11

Client ID: 1221-CAL5F

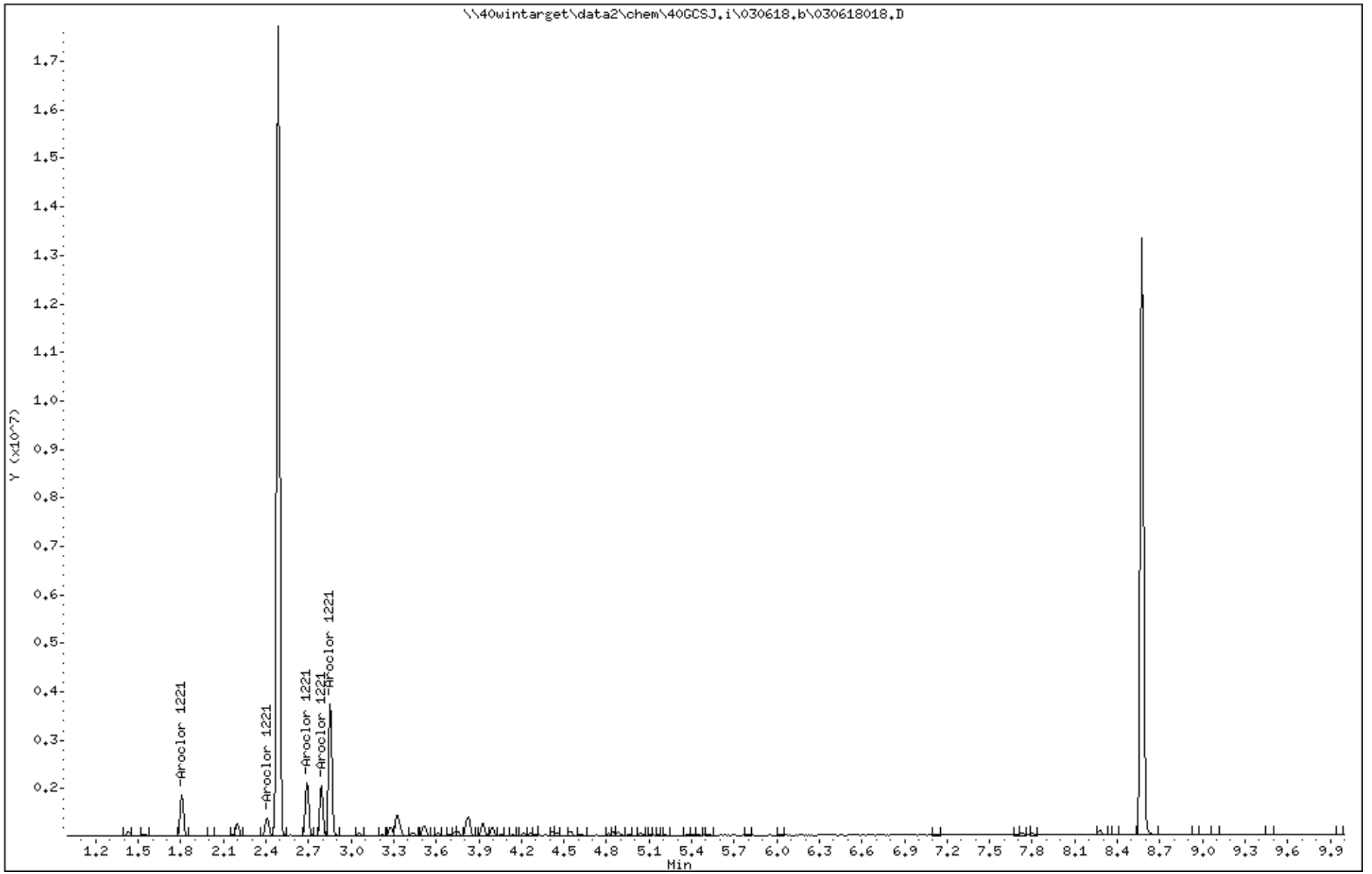
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

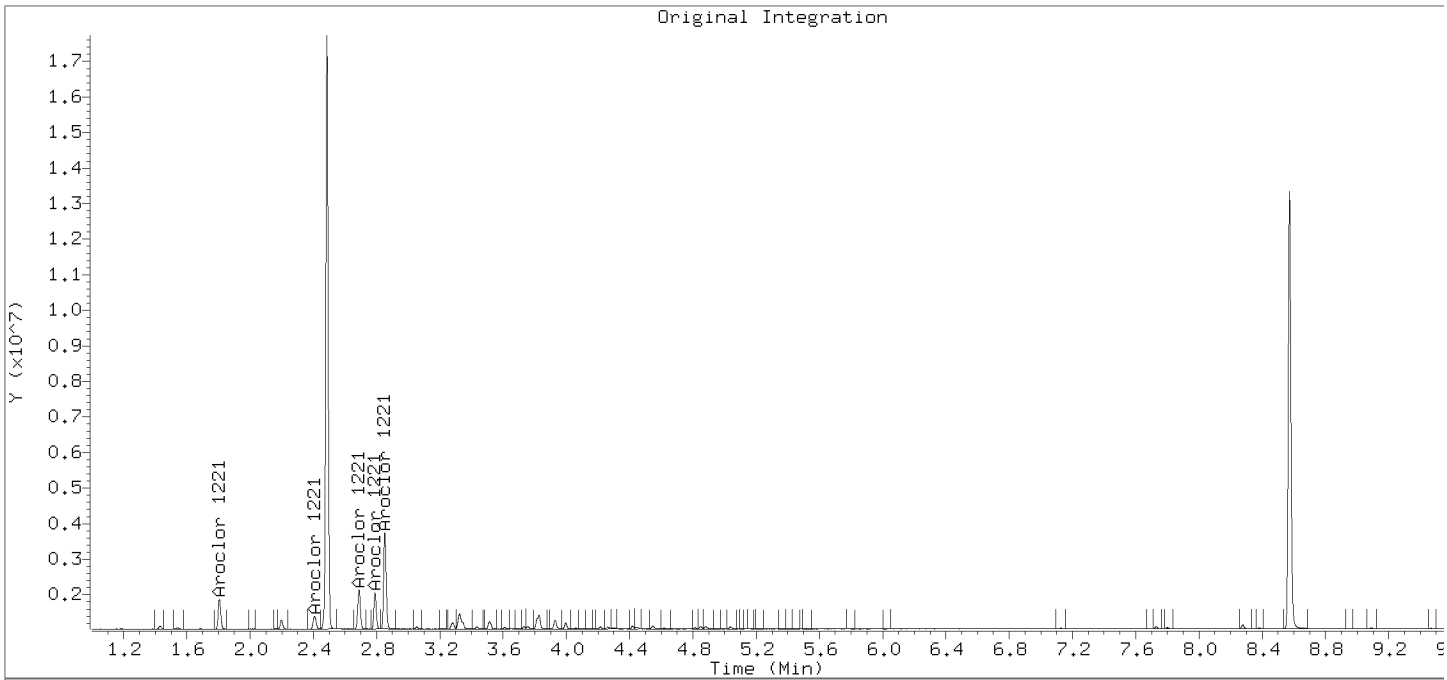
Operator: BLM

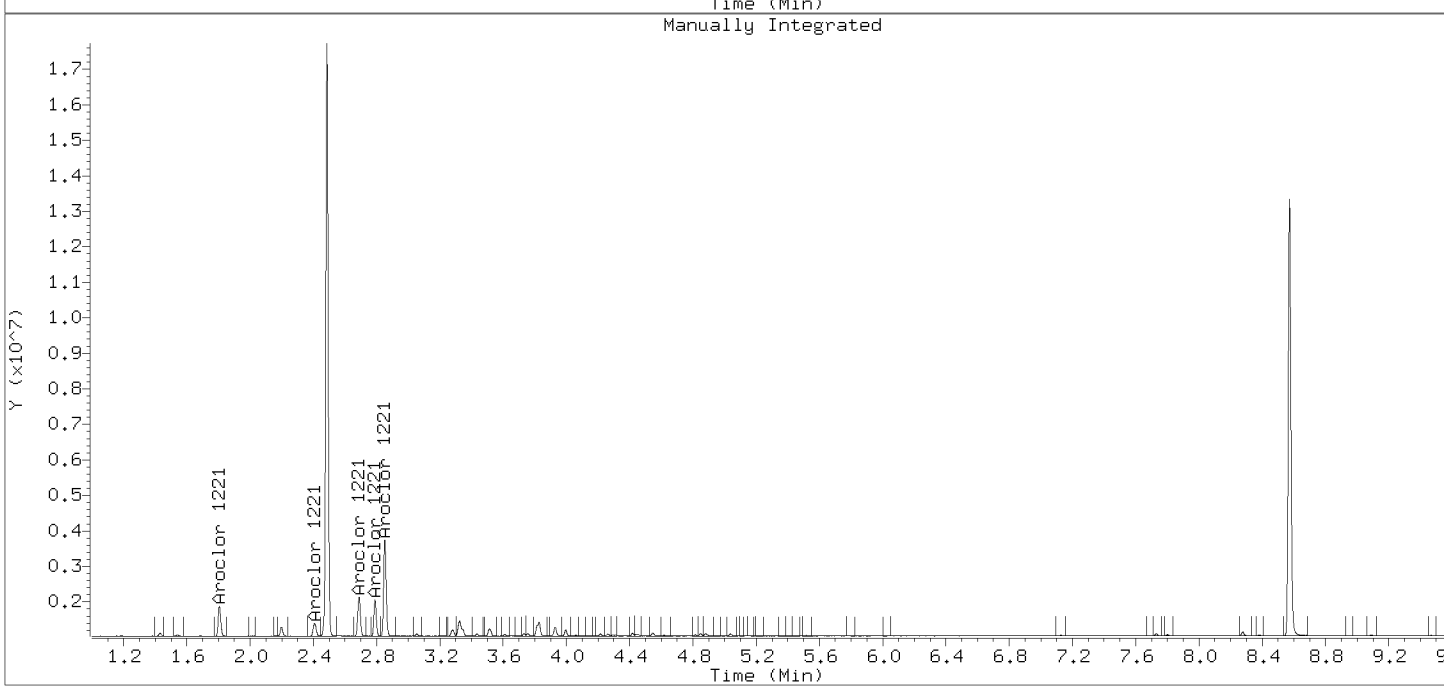
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 13:44

Client ID: 1242-CAL1B

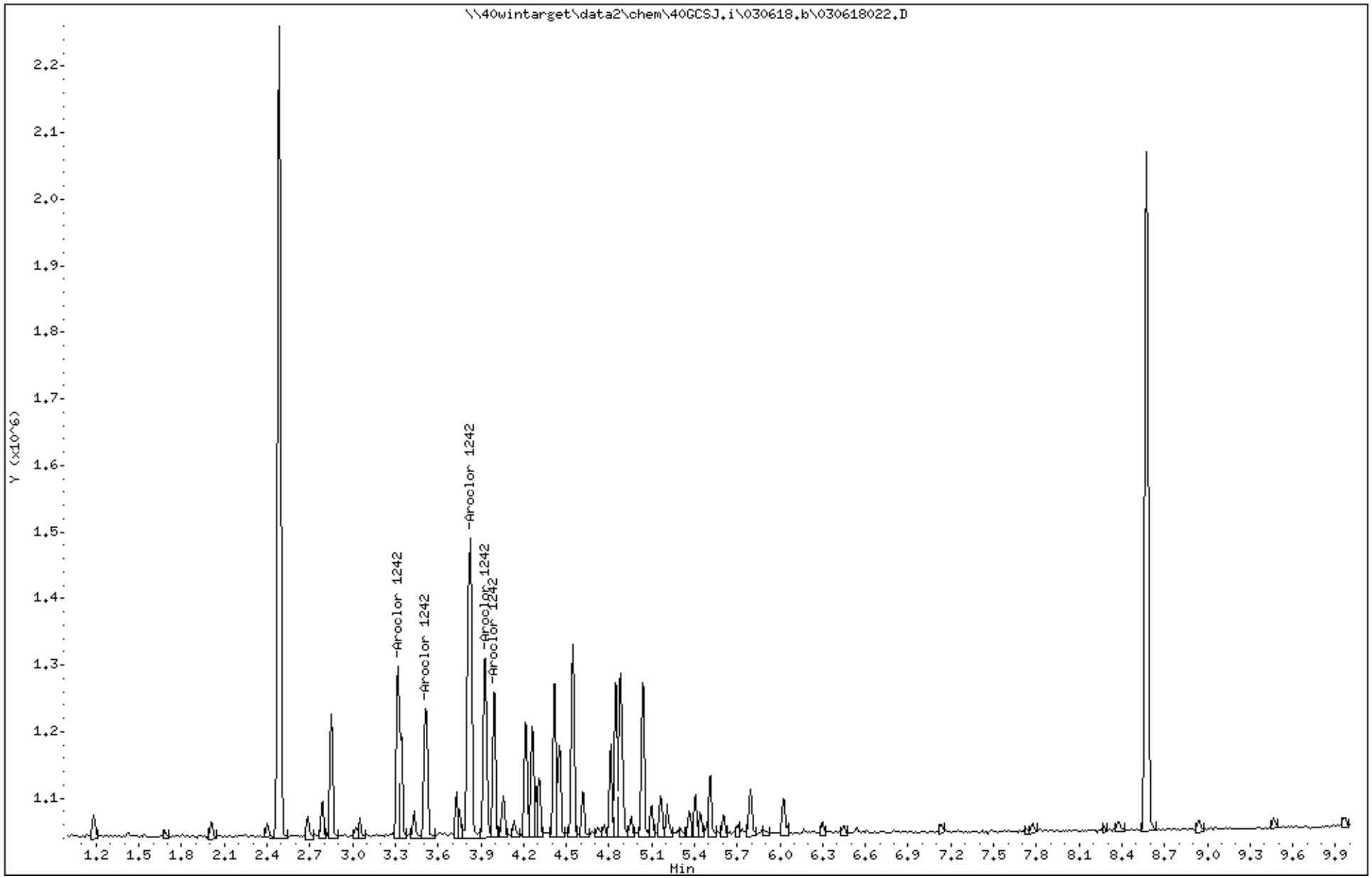
Instrument: 40GCSJ.i

Sample Info: 1242-CAL1B, 188132:1

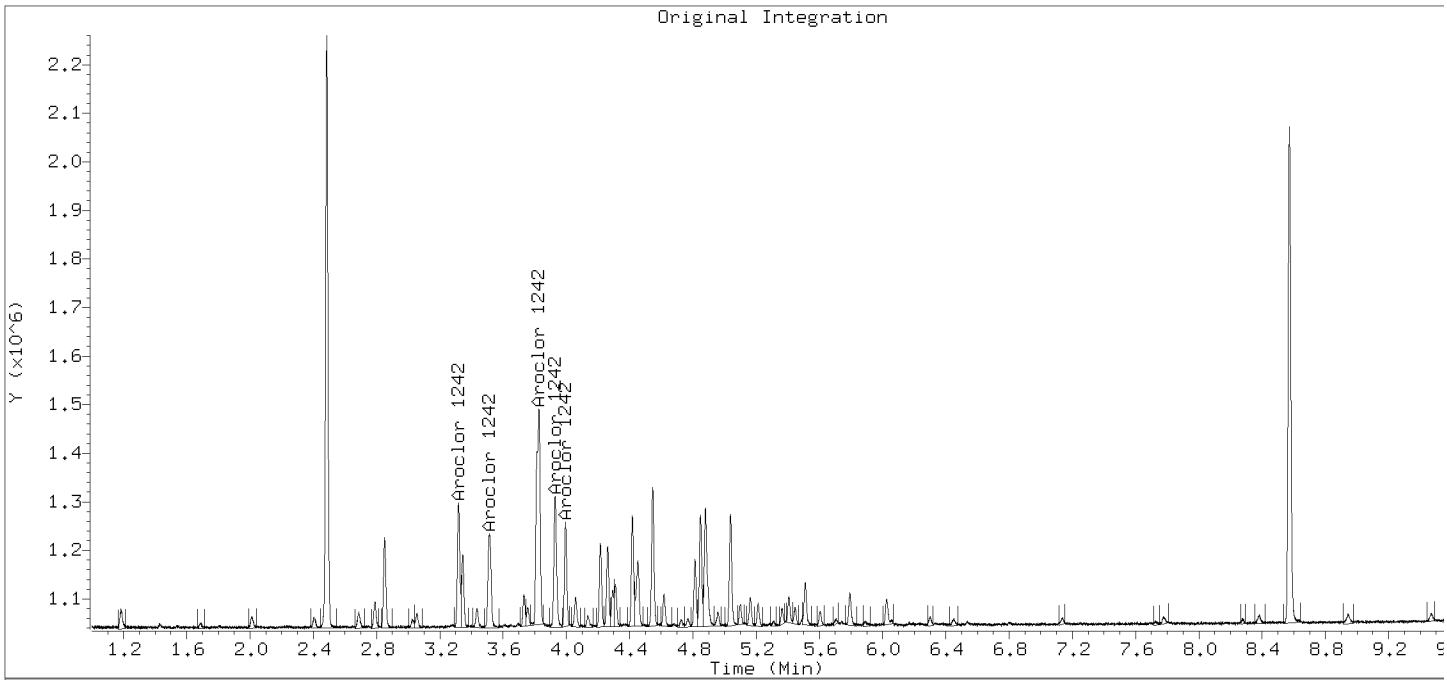
Operator: BLM

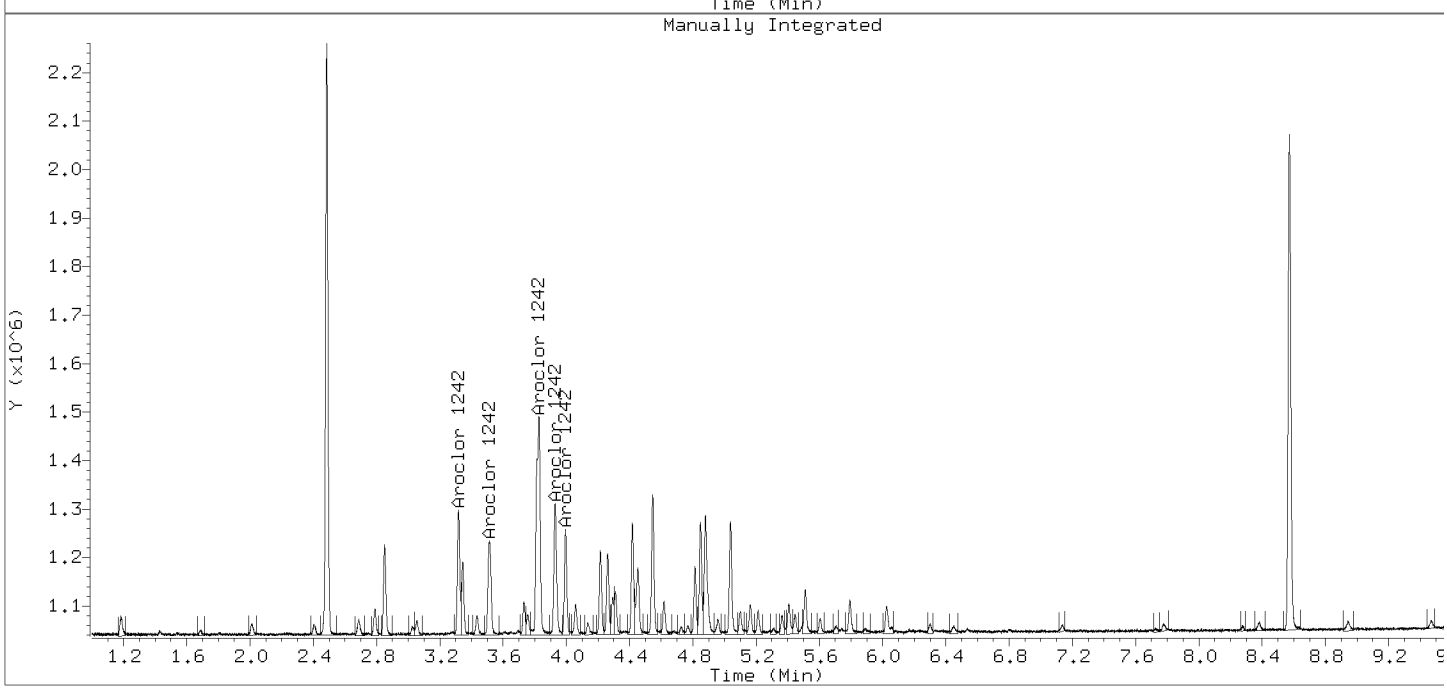
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

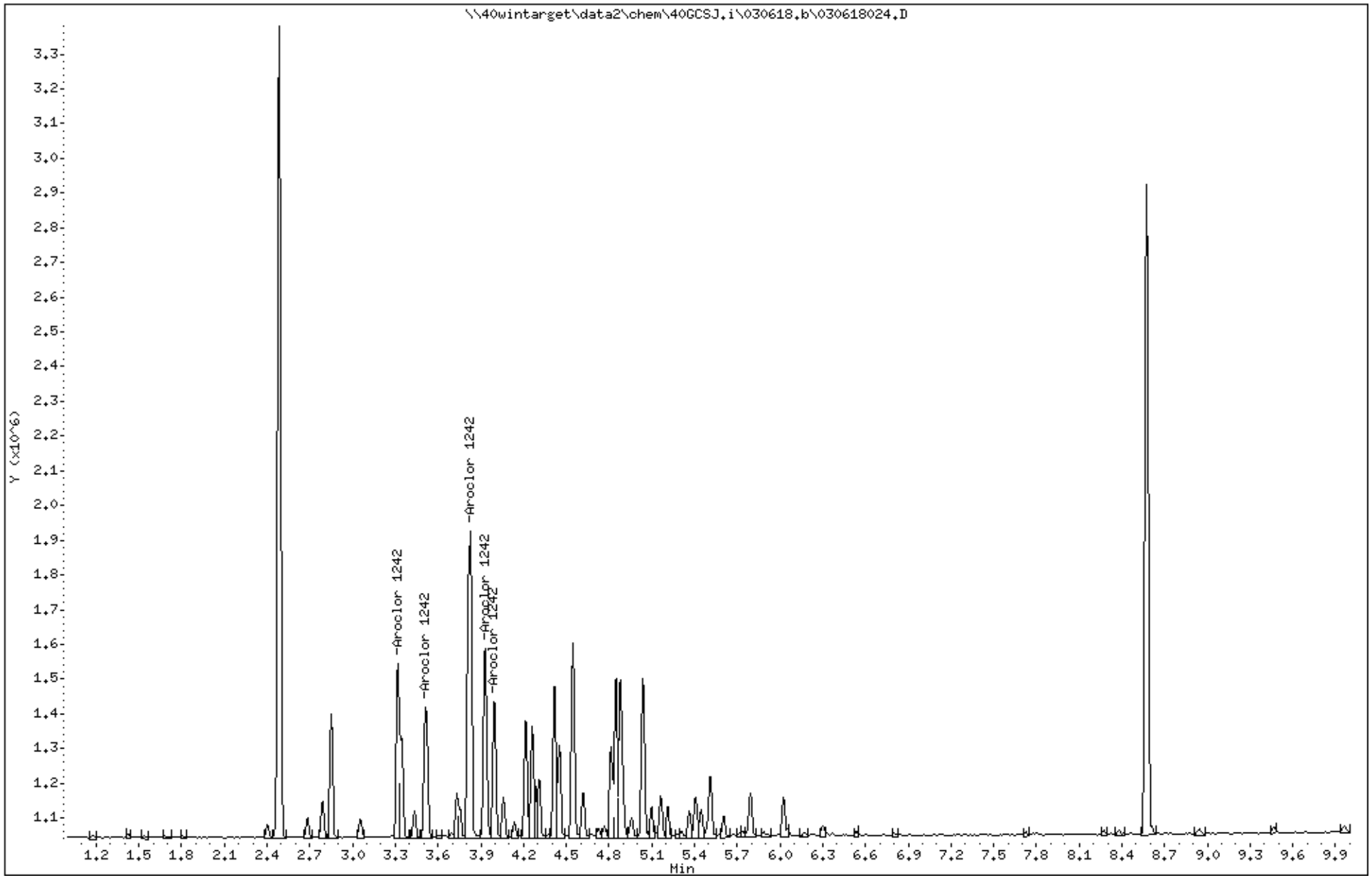
M - Compound response manually integrated.

Review Codes Legend

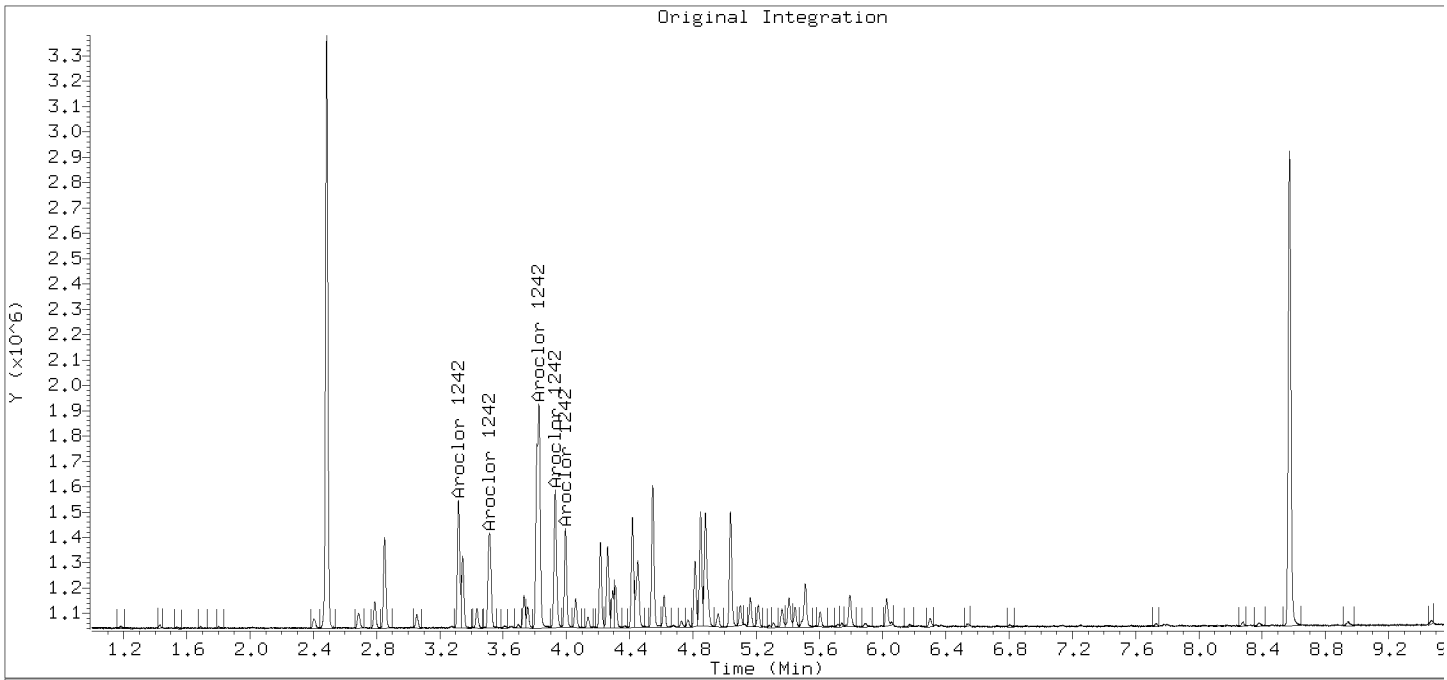
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

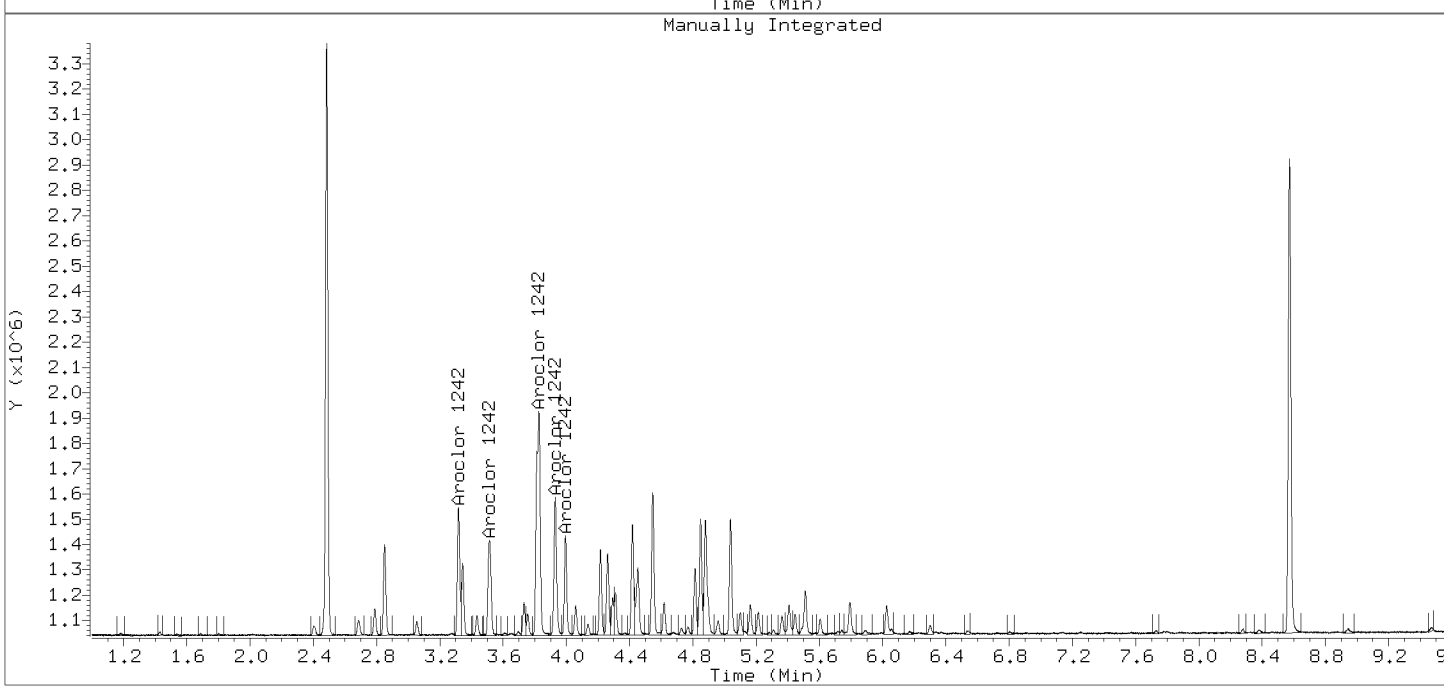
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D

Date : 06-MAR-2018 14:16

Client ID: 1242-CAL3B

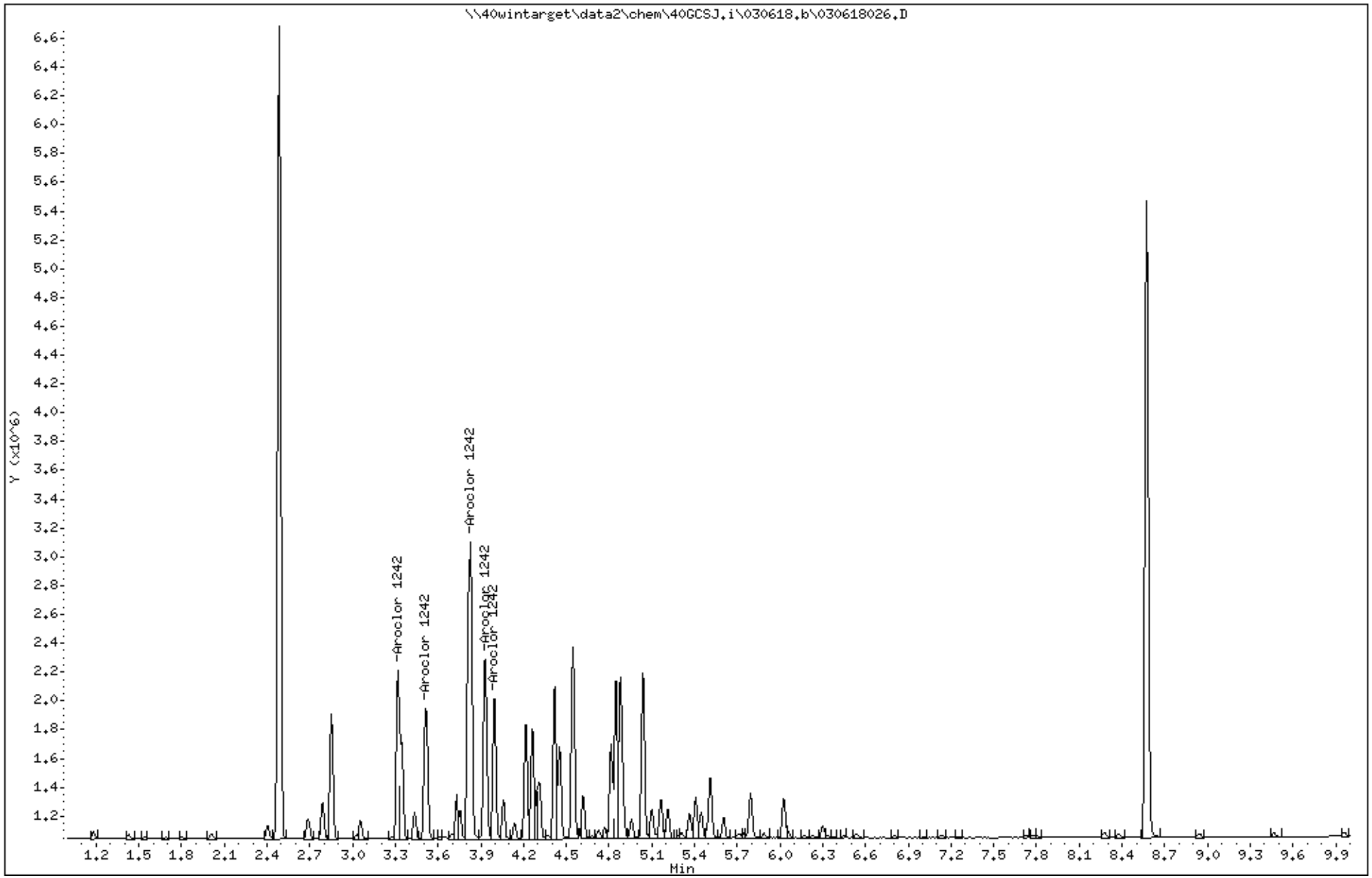
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

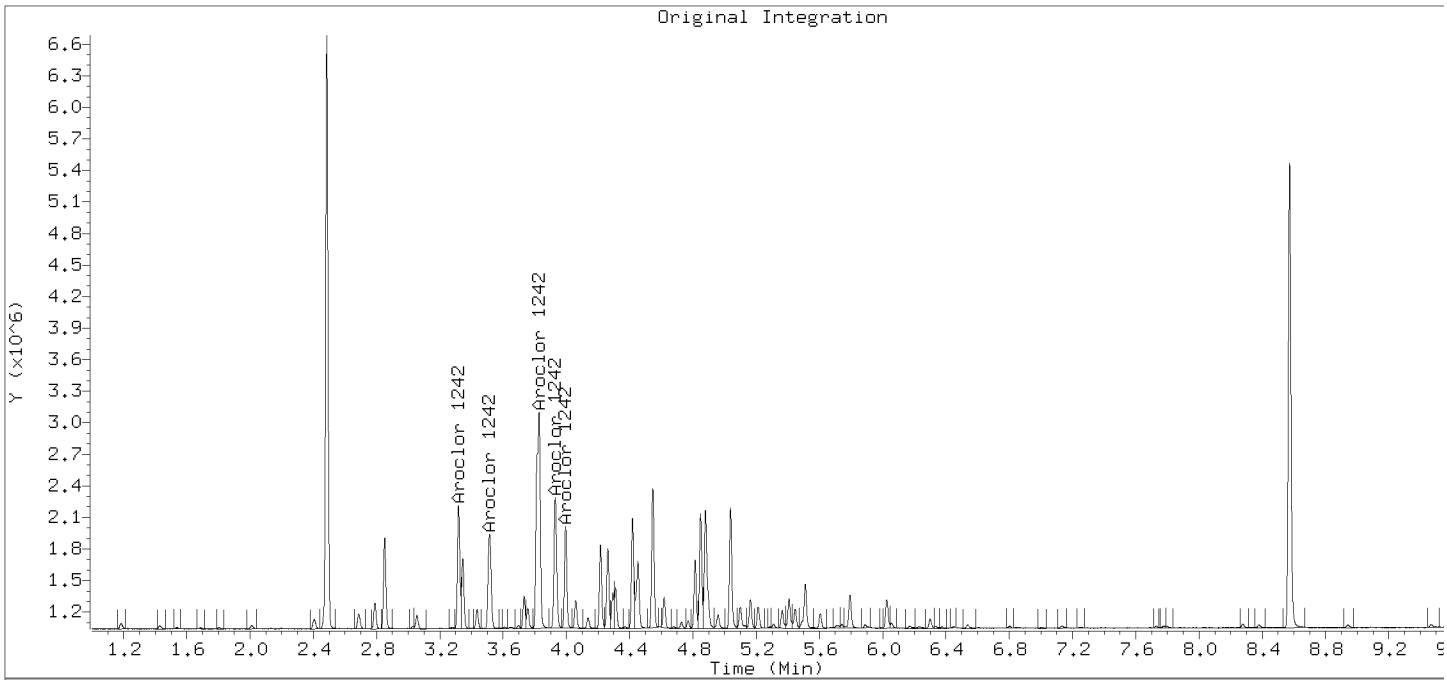
Operator: BLM

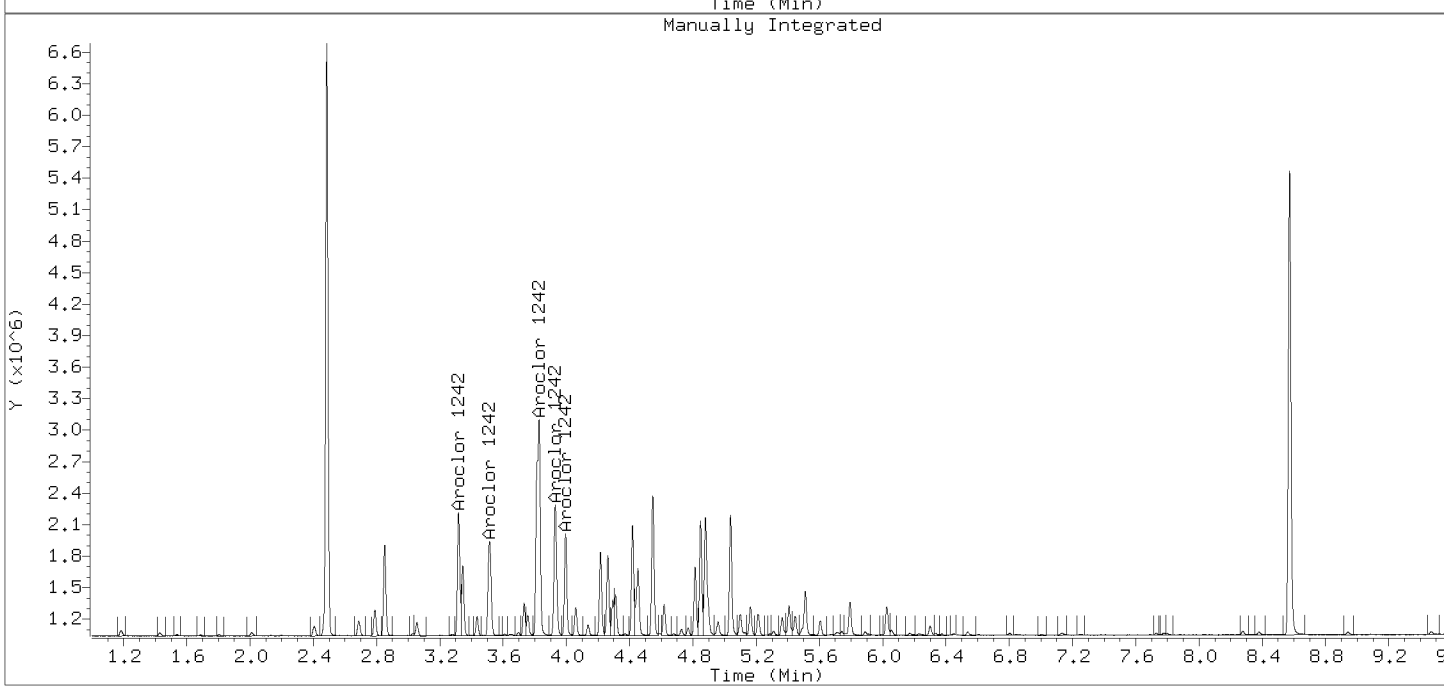
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

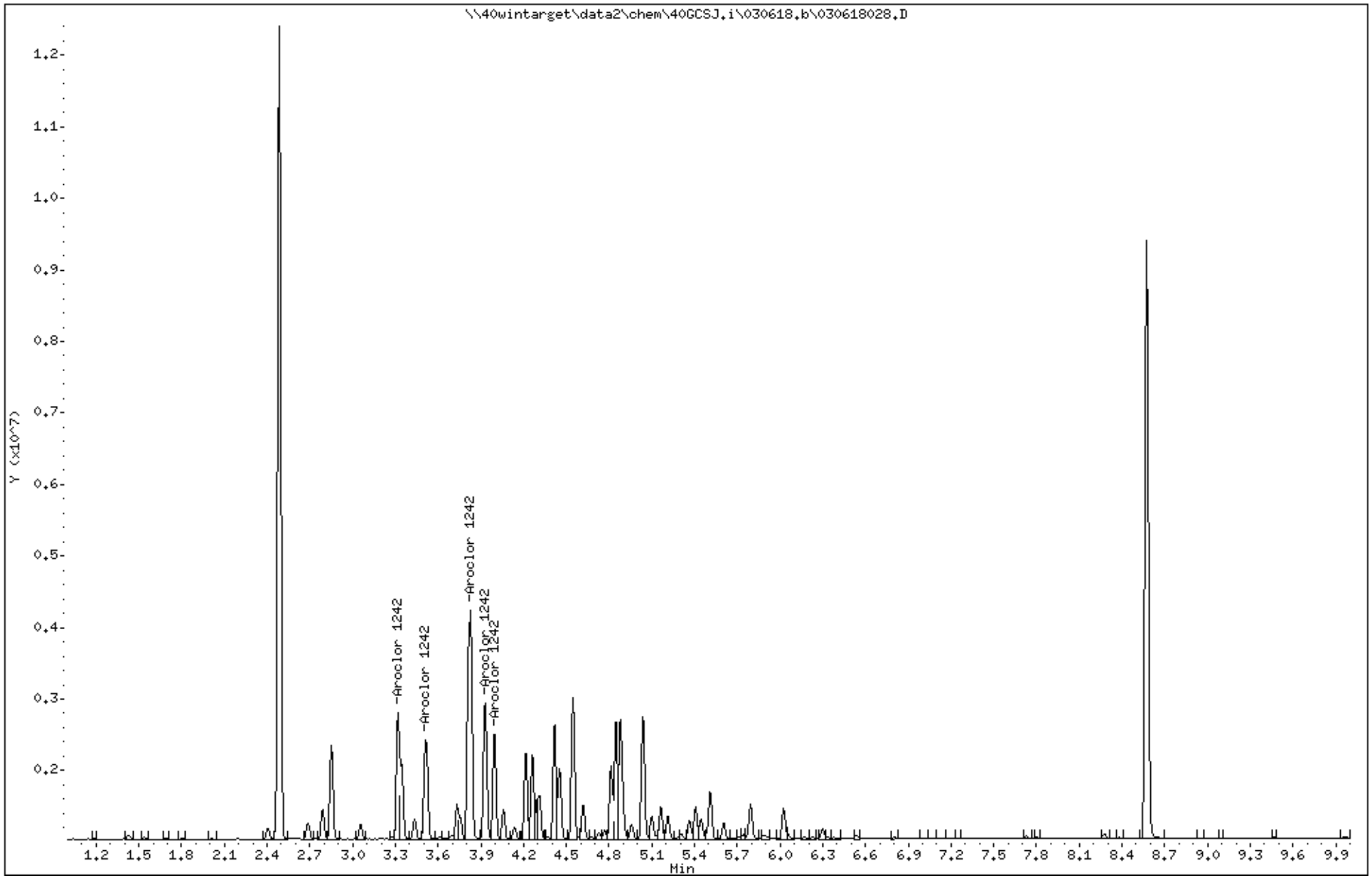
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

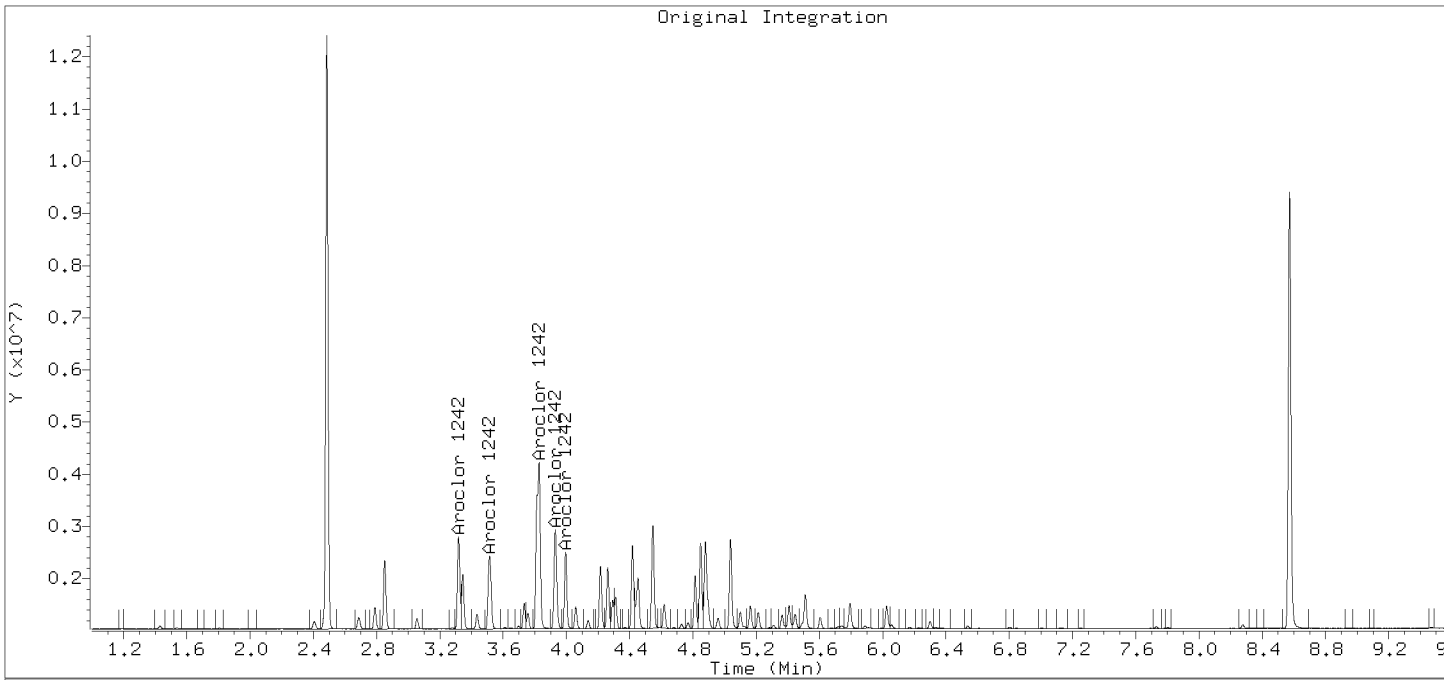
Operator: BLM

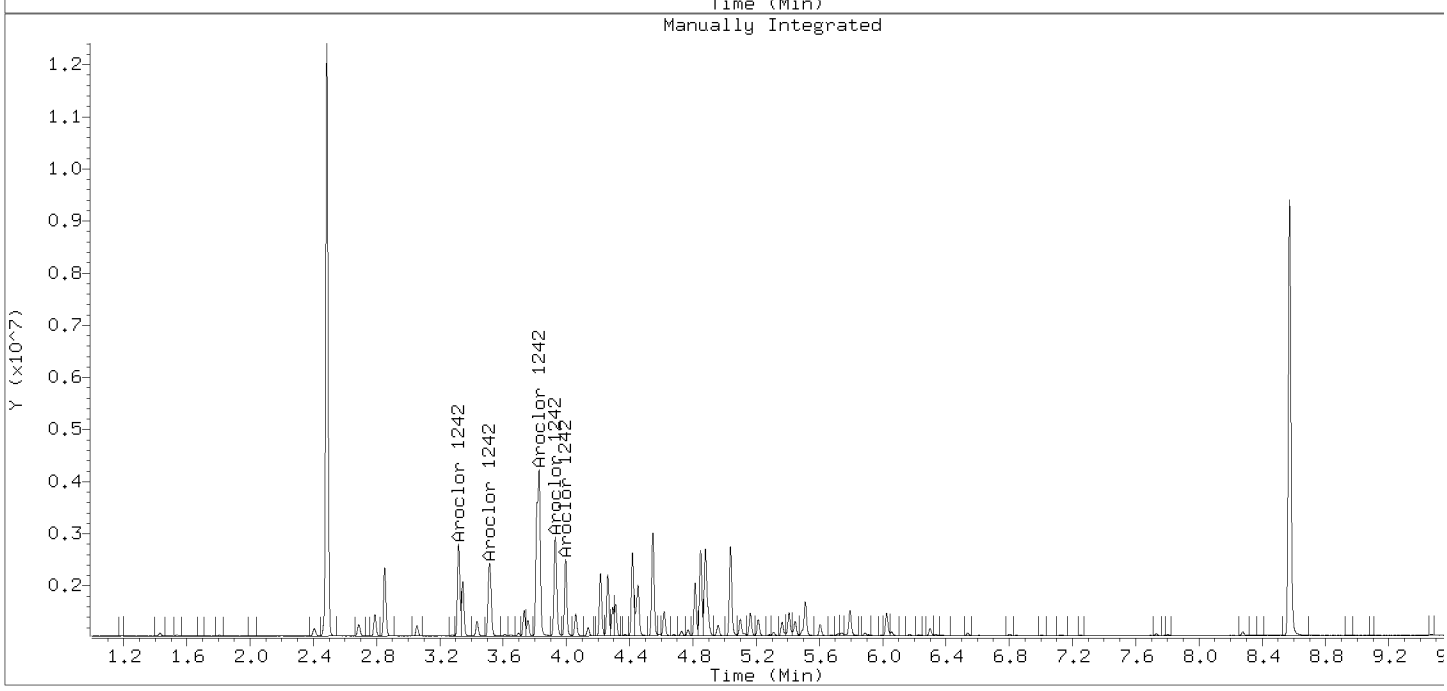
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D

Date : 06-MAR-2018 14:48

Client ID: 1242-CAL5B

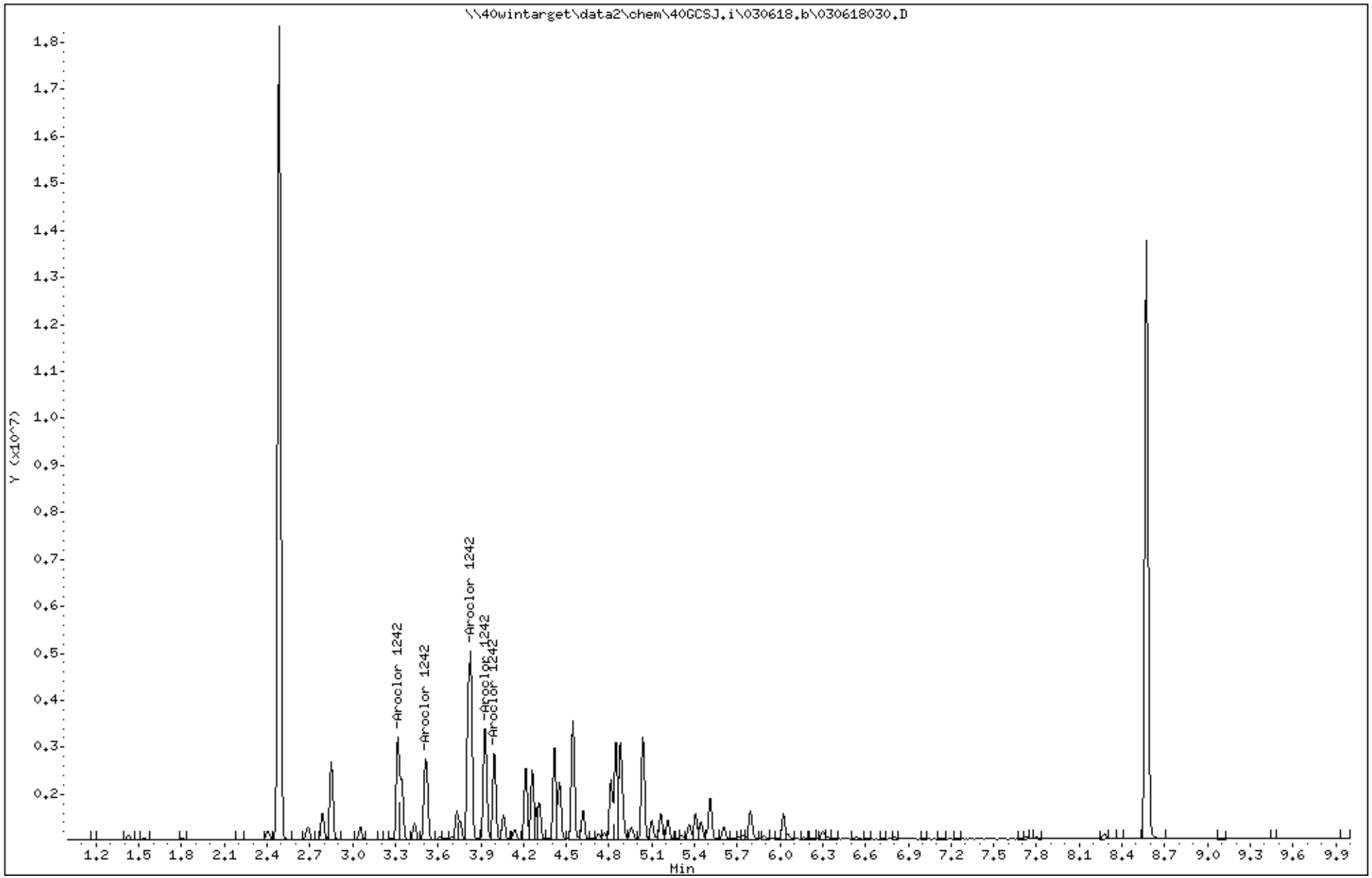
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

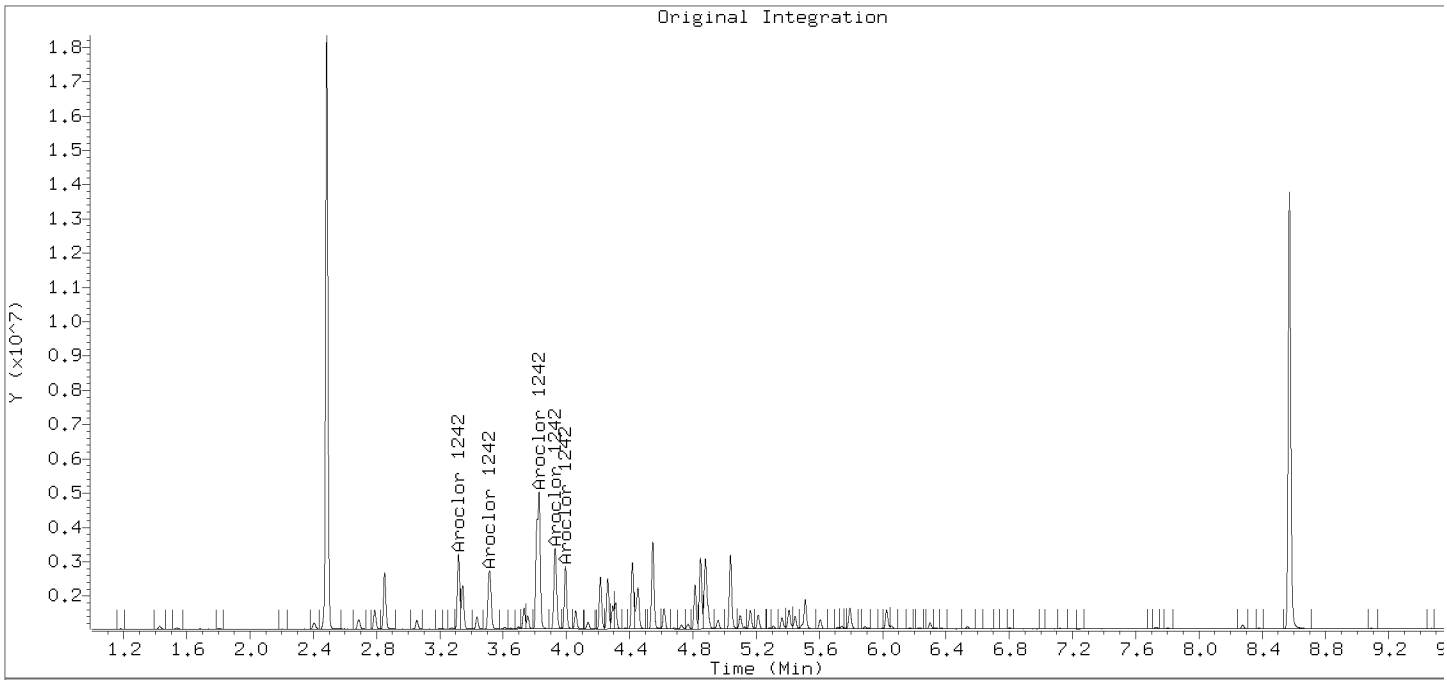
Operator: BLM

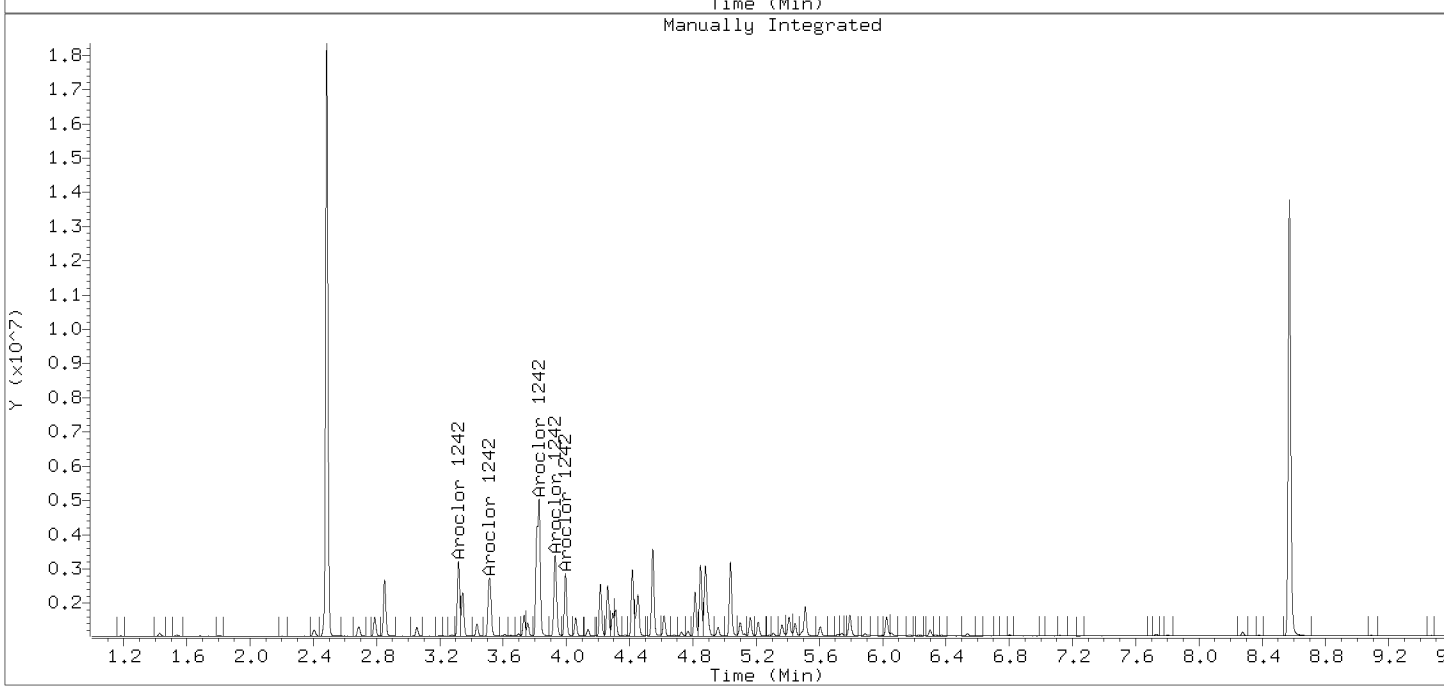
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D

Date : 06-MAR-2018 15:21

Client ID: 1248-CAL1D

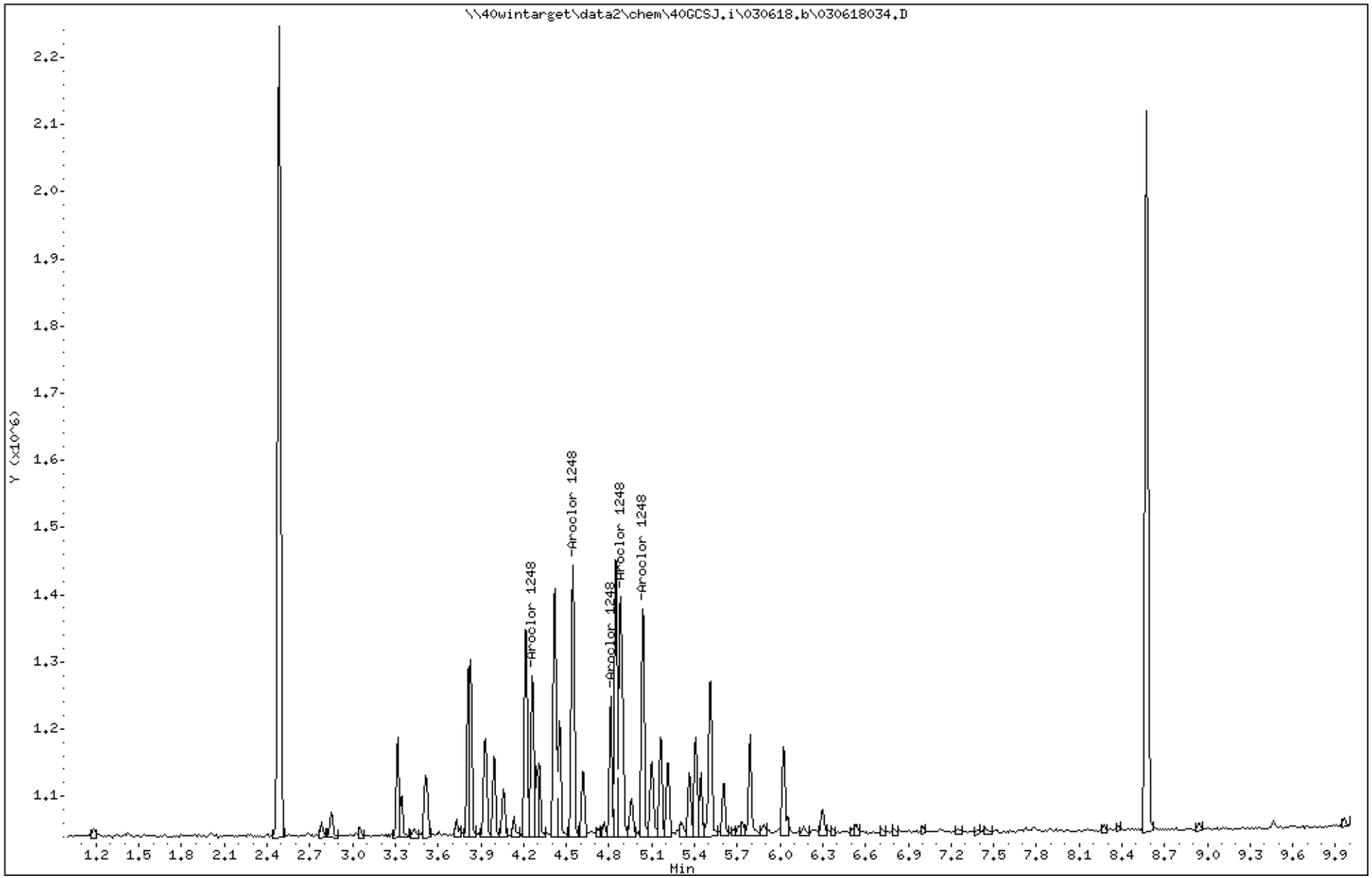
Instrument: 40GCSJ.i

Sample Info: 1248-CAL1D, 188134:1

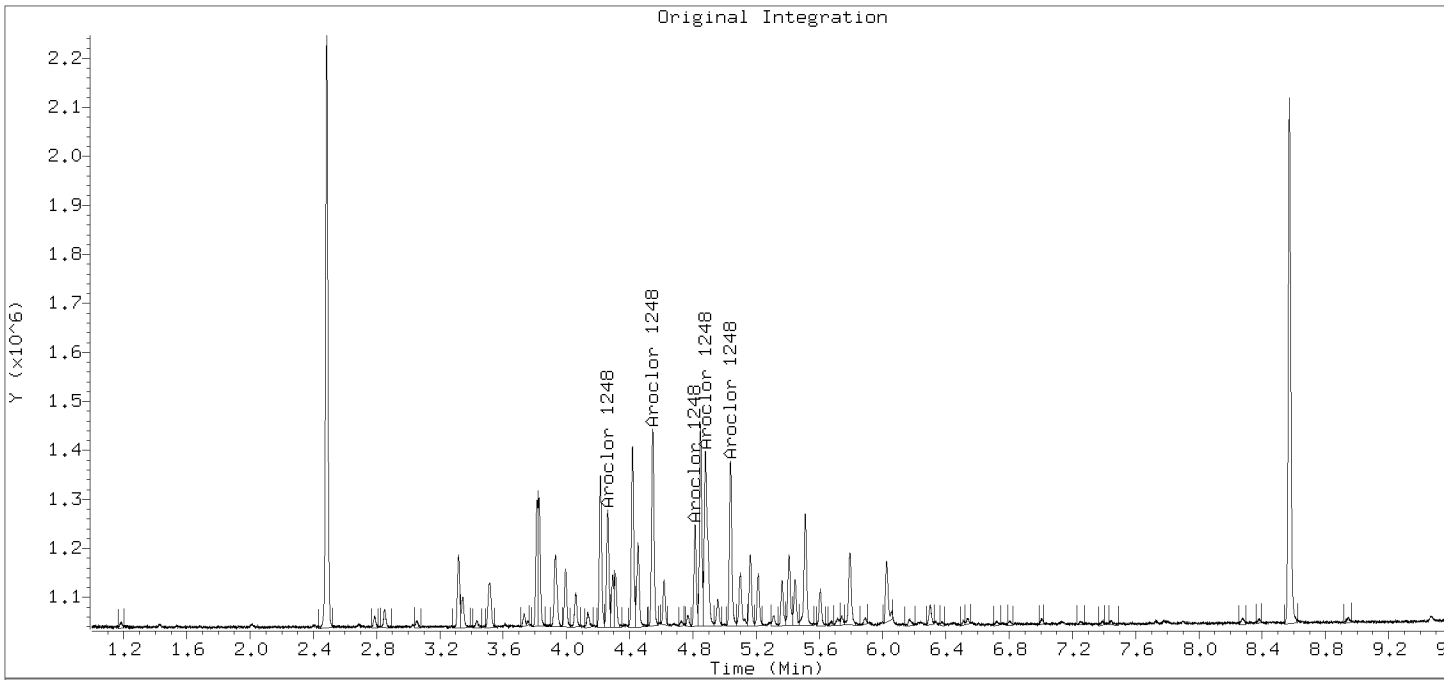
Operator: BLM

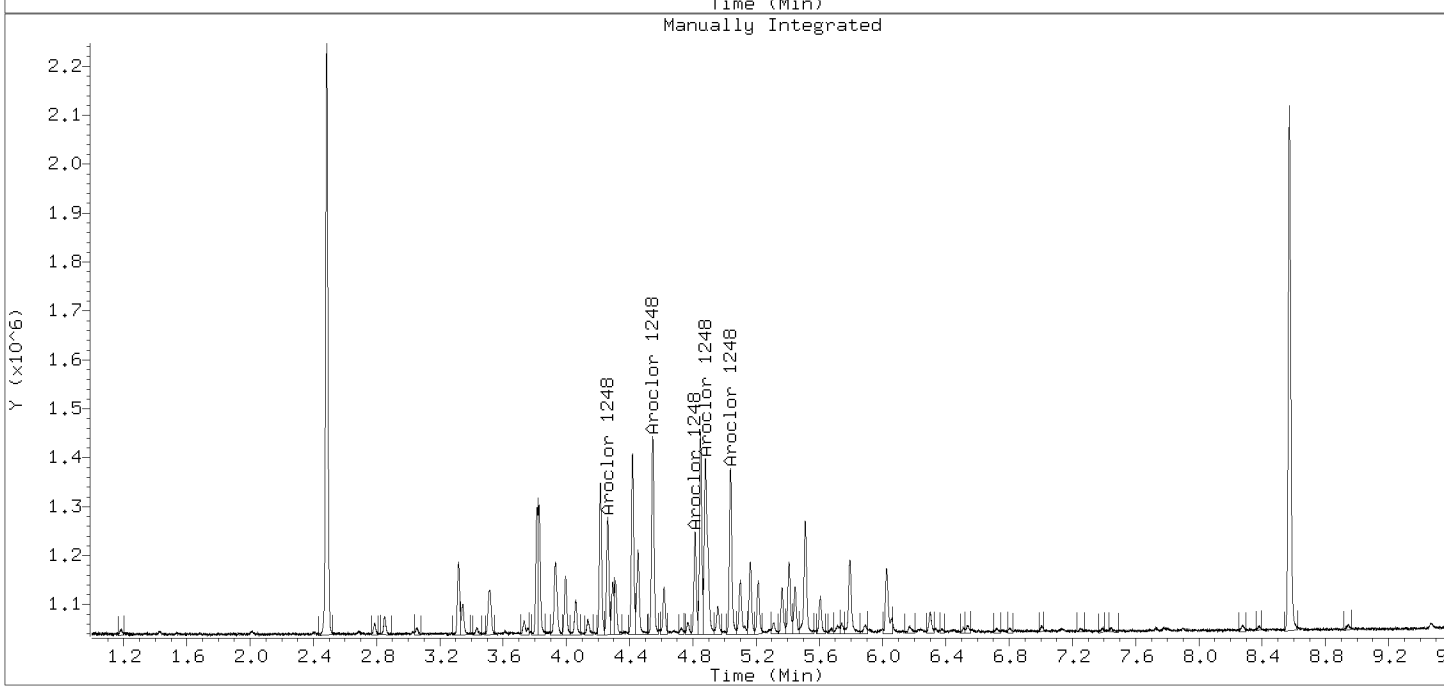
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

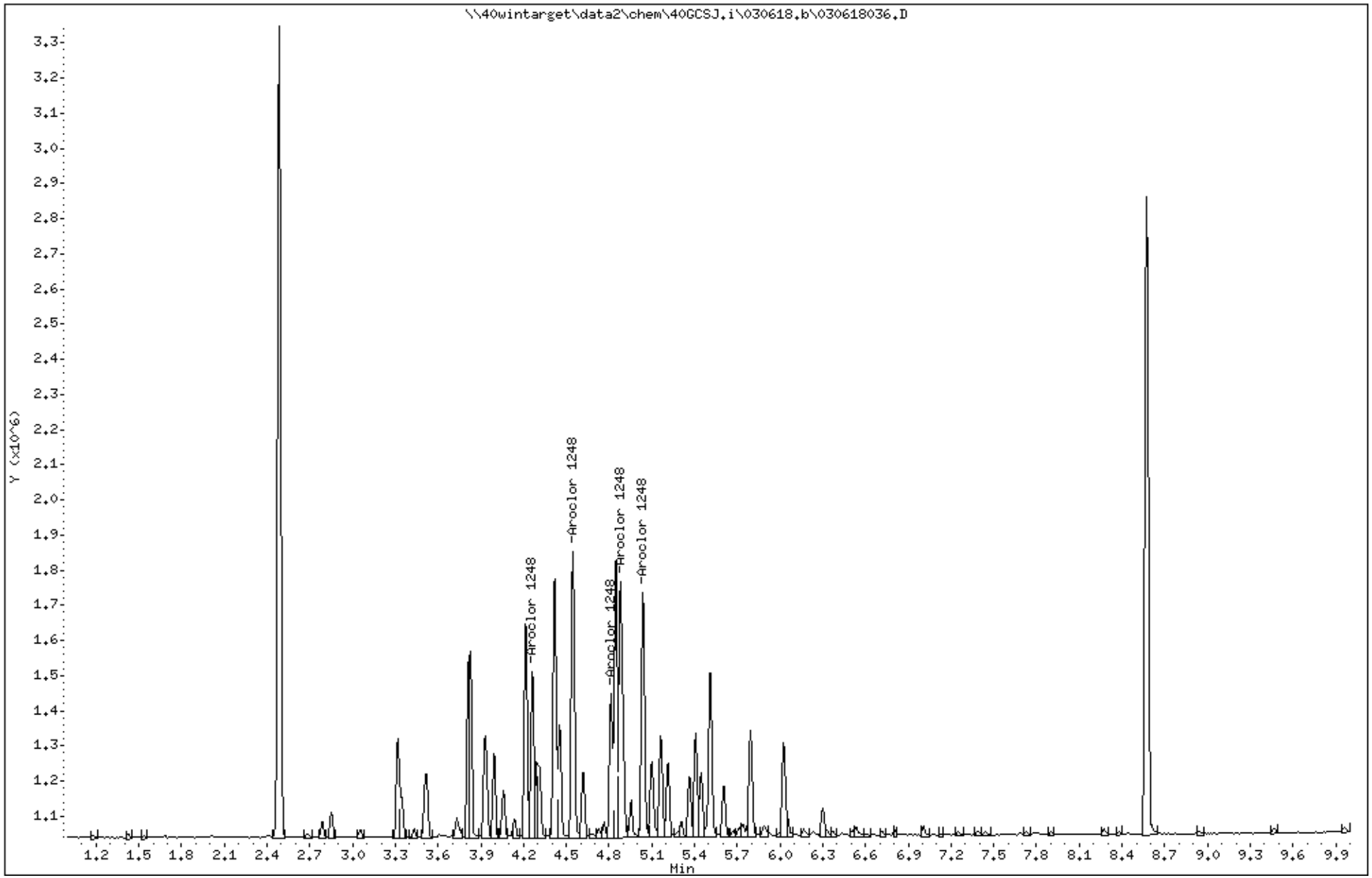
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

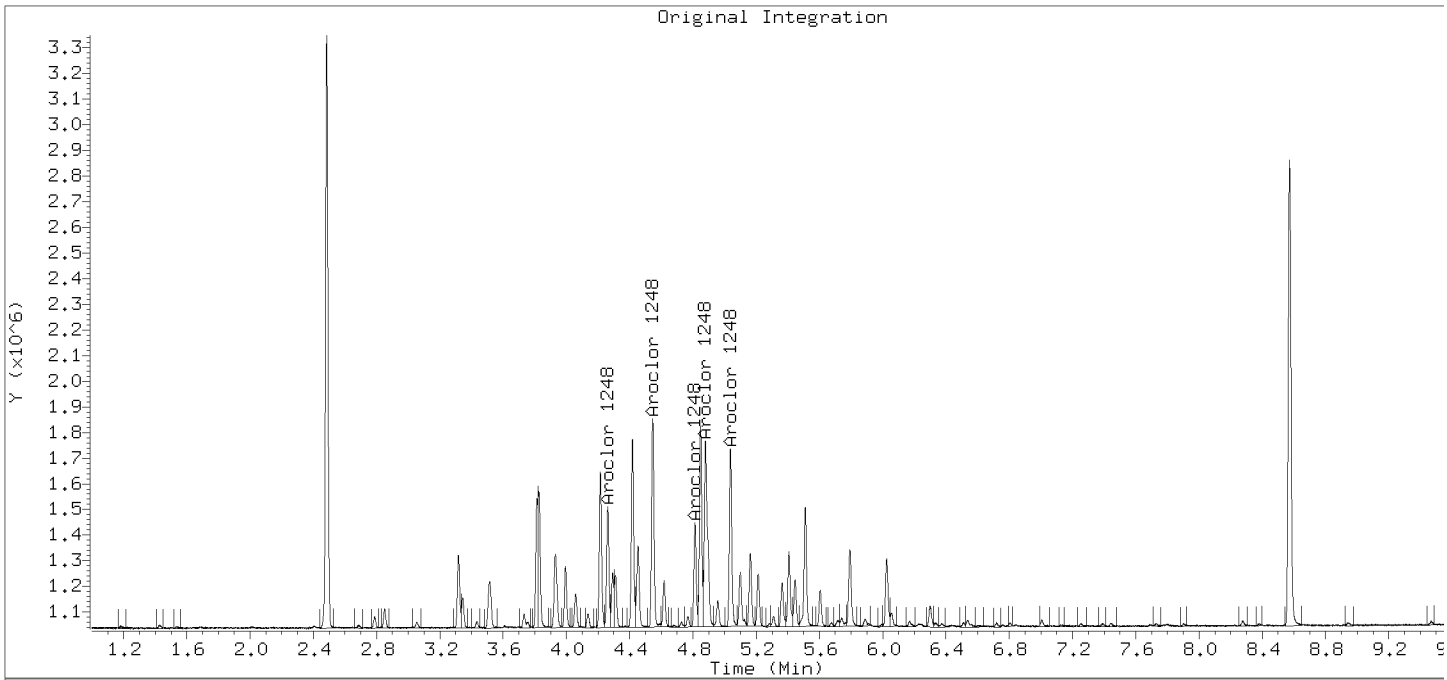
Operator: BLM

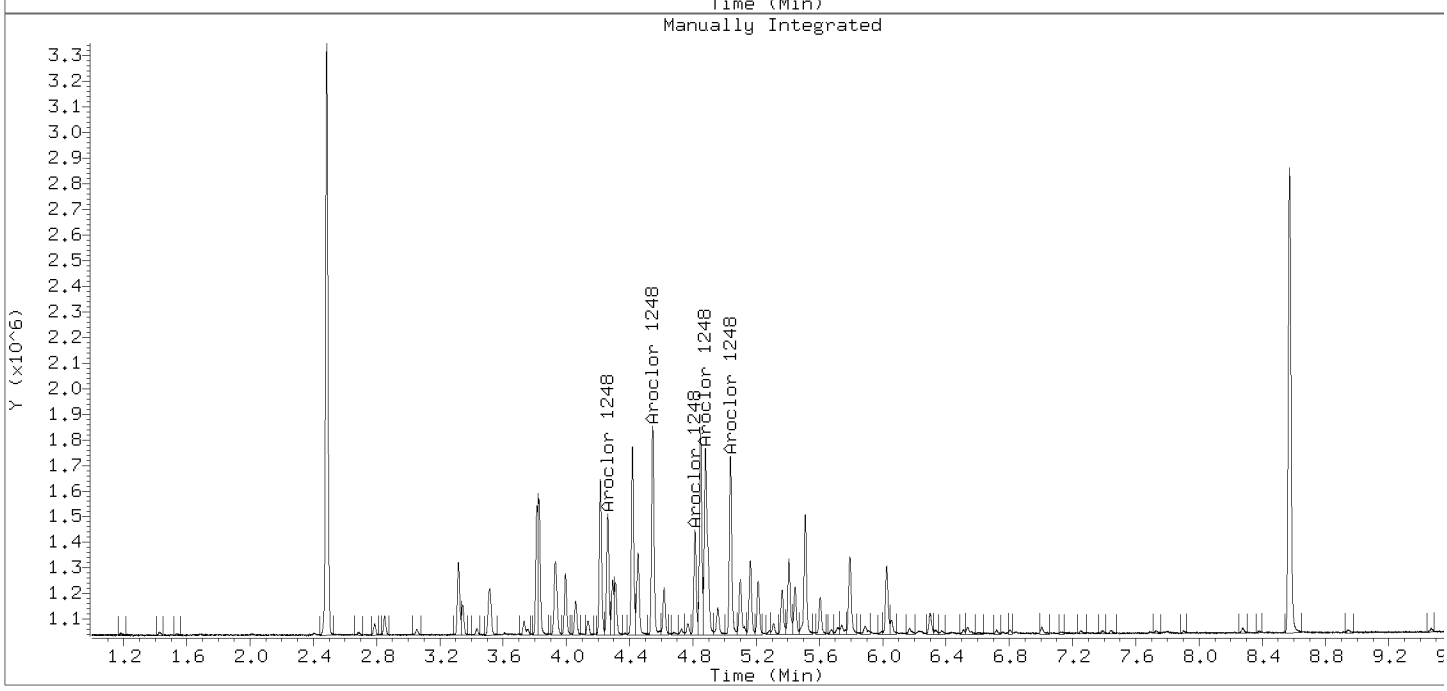
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

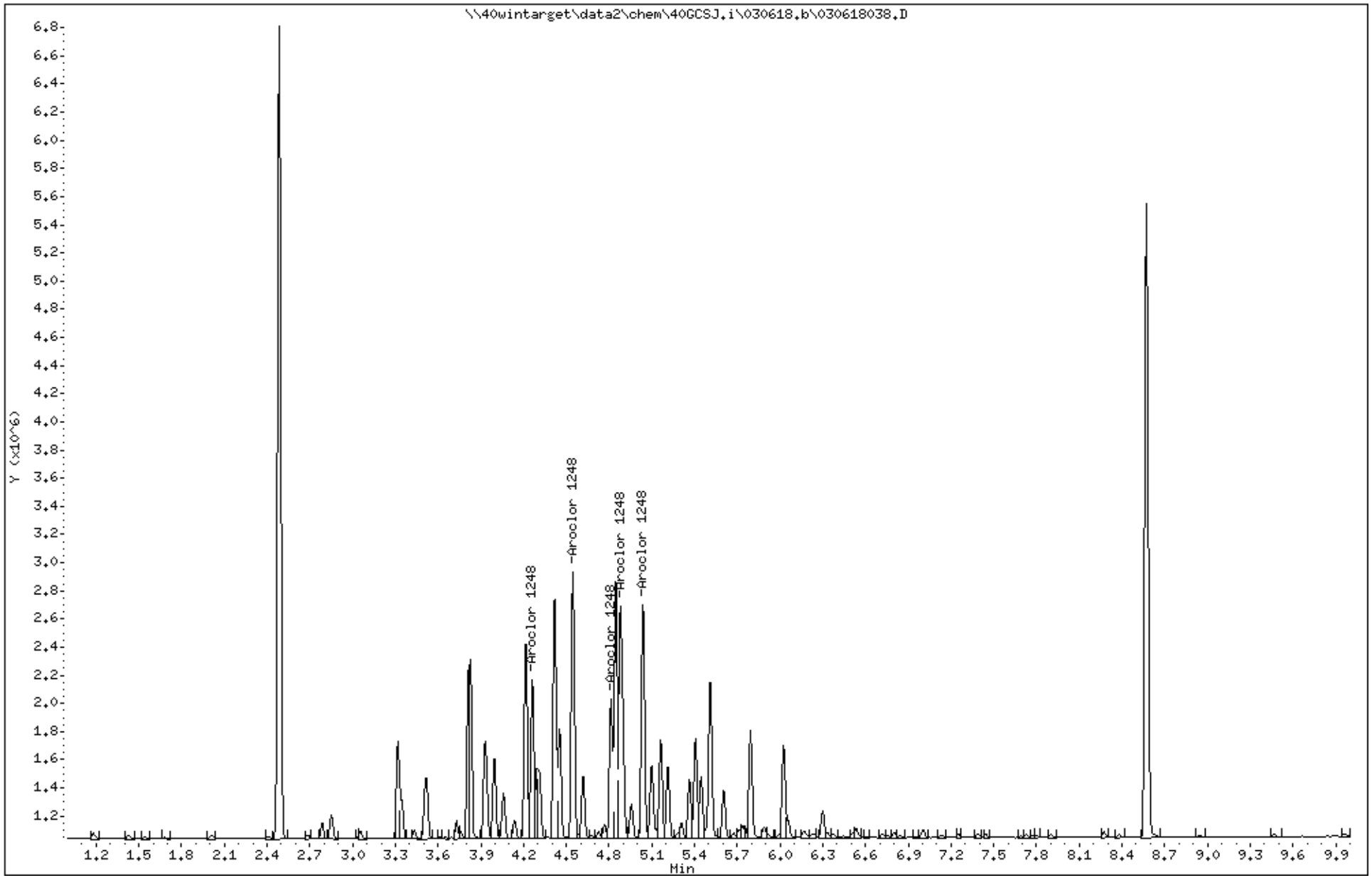
M - Compound response manually integrated.

Review Codes Legend

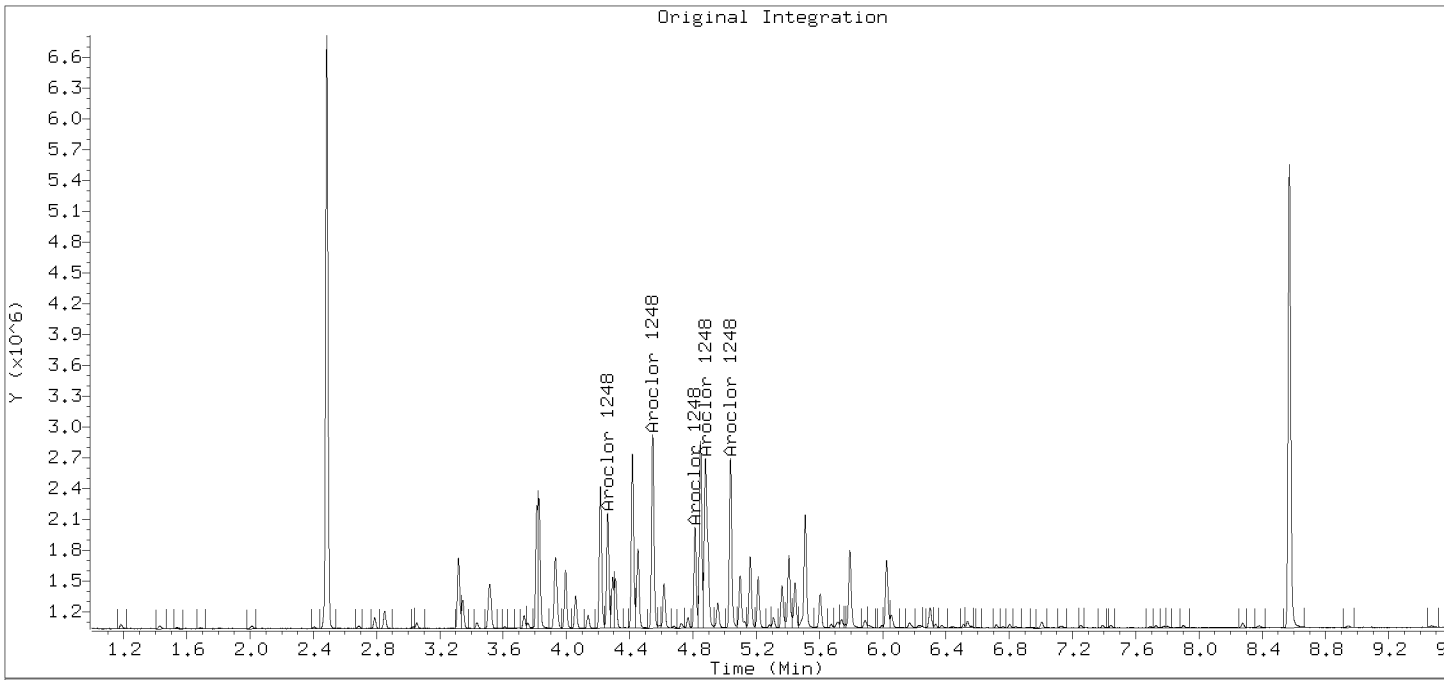
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

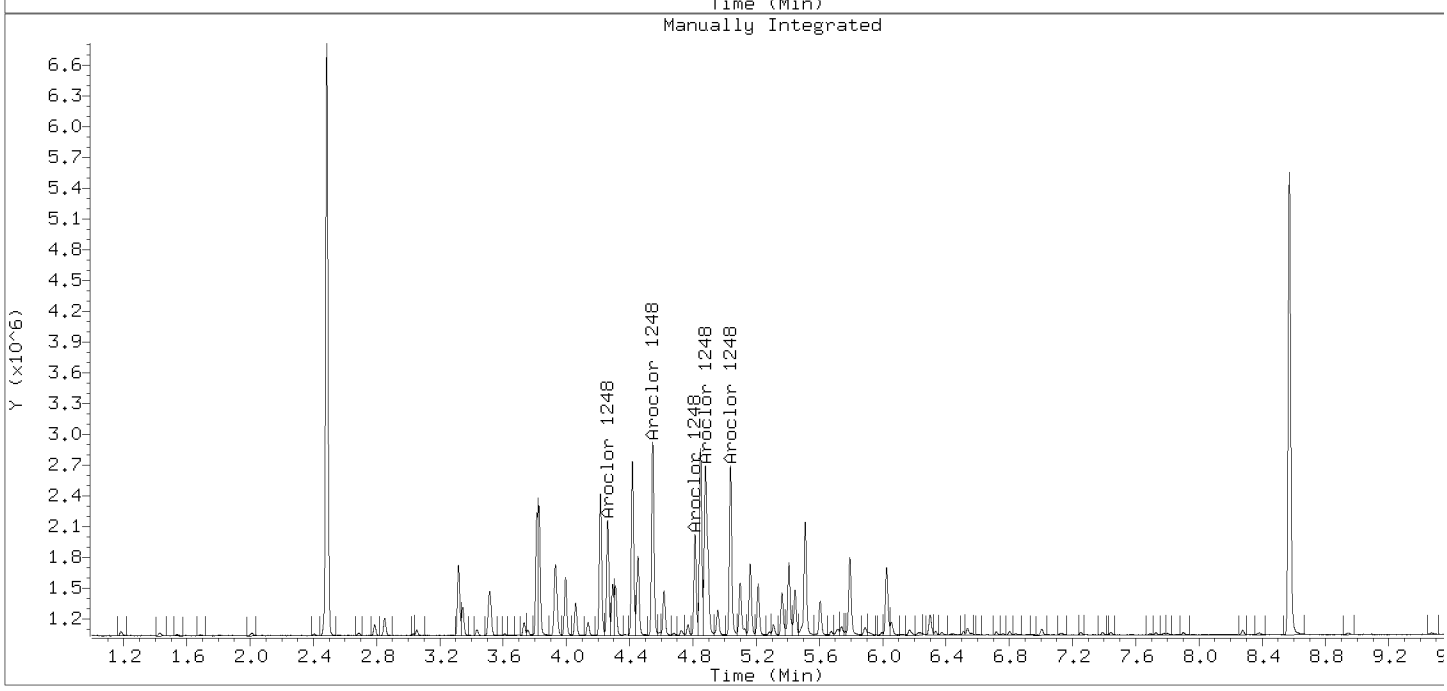
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

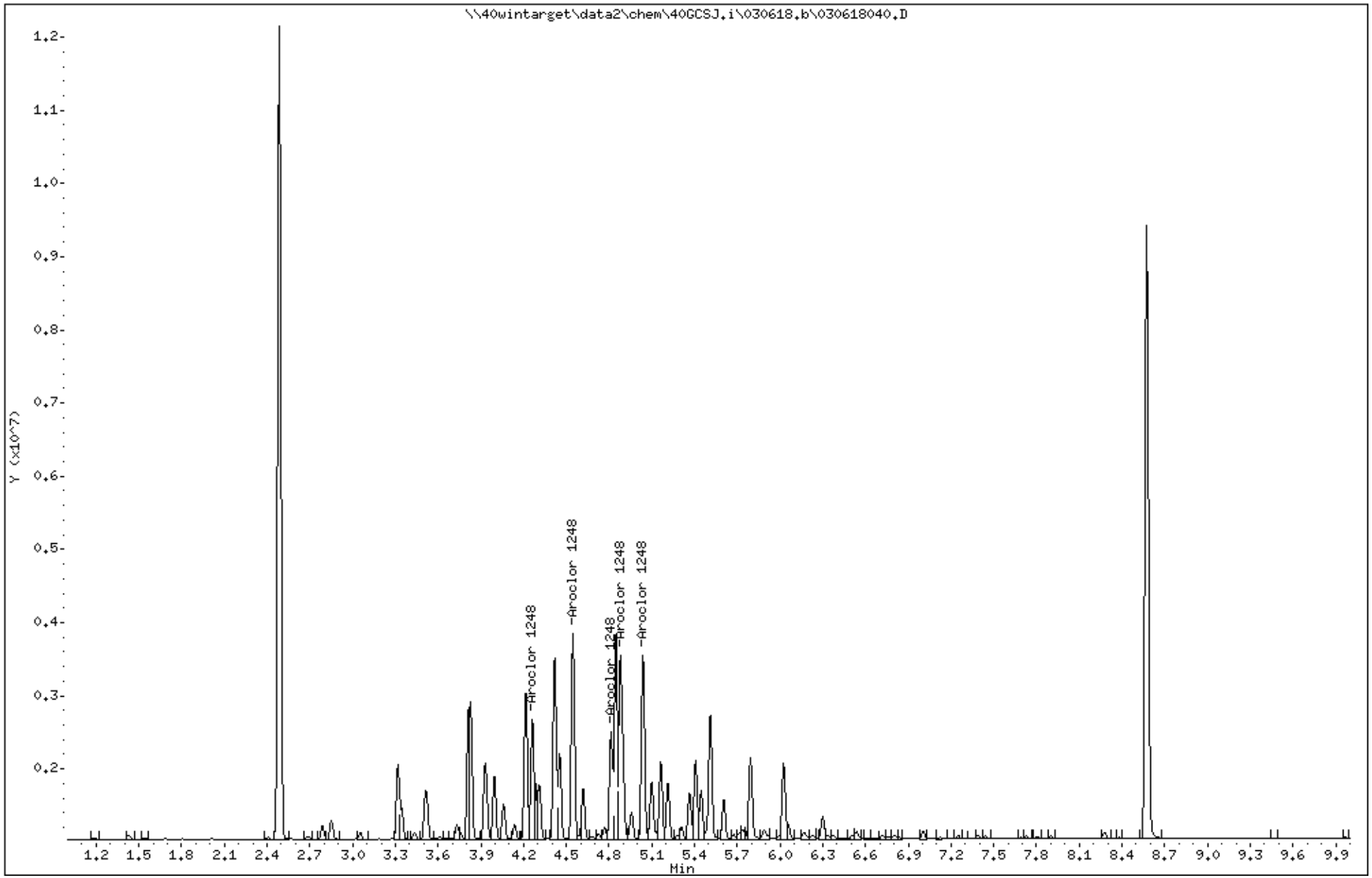
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

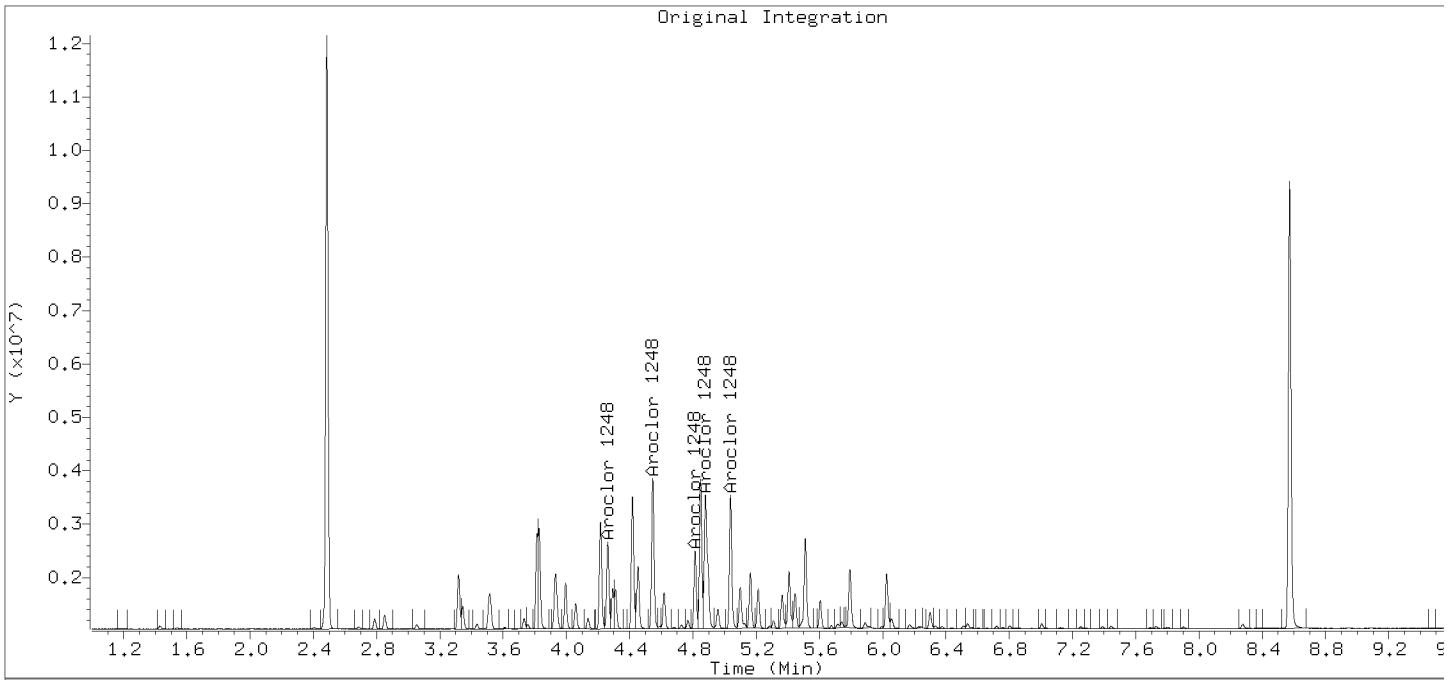
Operator: BLM

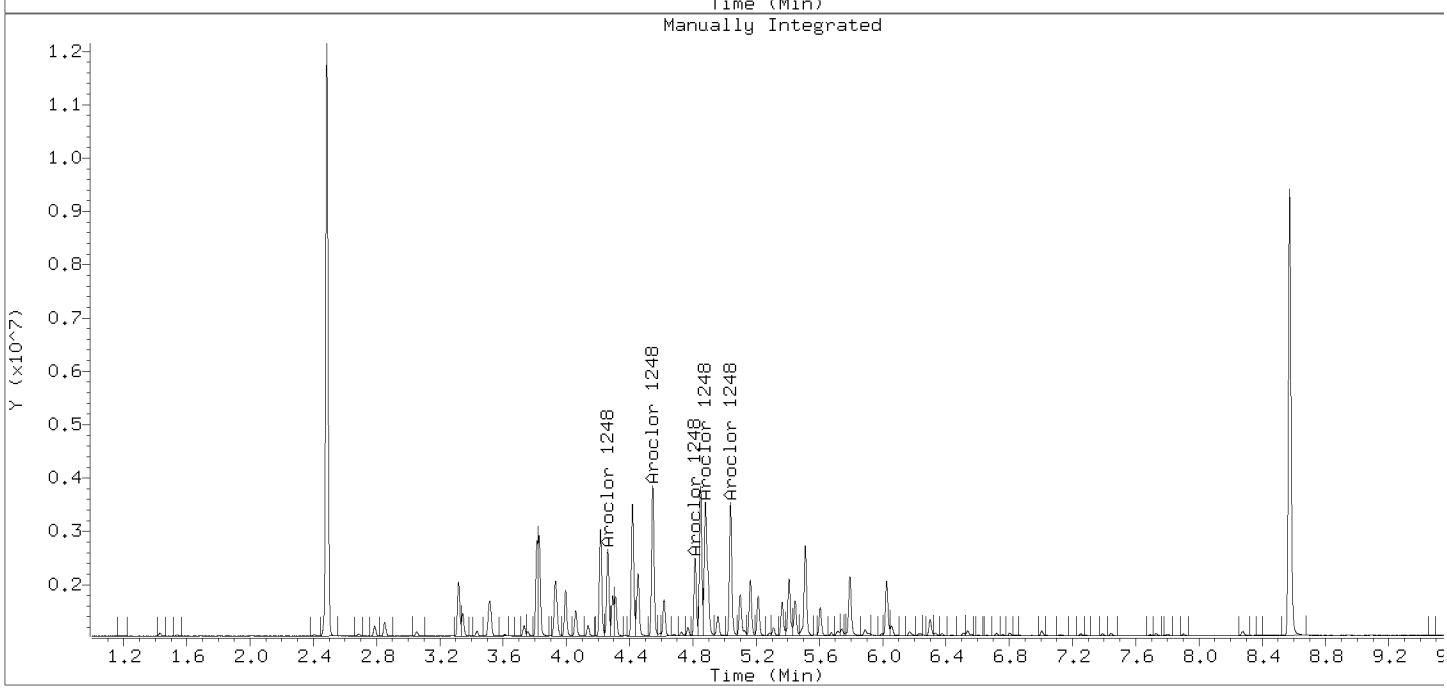
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618040.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL4D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	15397	13334	0.866	0.01		
1.430	101369	87214	0.860	0.10		
1.537	43989	34591	0.786	0.04		
2.406	47903	33430	0.698	0.05		
2.485	17721229	17125552	0.966	19.37		
2.688	56165	47205	0.840	0.05		
2.788	288750	277495	0.961	0.30		
2.851	348759	325290	0.933	0.37		
3.054	123922	115841	0.935	0.13		
3.273	9293	8724	0.939	0.00		
3.318	1341983	1263092	0.941	1.43		
3.344	567538	536022	0.944	0.60		
3.434	126309	115528	0.915	0.13		
3.516	1155877	827361	0.716	1.23		
3.611	47908	47362	0.989	0.05		
3.647	10831	12550	1.159	0.01		
3.696	12947	14220	1.098	0.01		
3.732	246189	245791	0.998	0.26		
3.758	102423	103998	1.015	0.10		
3.814	1931729	2268598	1.174	2.06		
3.826	2479017	2389735	0.964	2.64		
3.931	1695811	1294913	0.764	1.80		
3.995	1133597	1088944	0.961	1.20		
4.059	642924	621662	0.967	0.68		
4.136	260443	245788	0.944	0.27		
4.216	2732694	2586455	0.946	2.91		
4.261	2183583	2056861	0.942	2.32	6 Aroclor 1248	BA
4.293	940491	949013	1.009	1.00		
4.310	984371	940127	0.955	1.05		
4.373	17082	14222	0.833	0.01		
4.418	3371096	3162549	0.938	3.59		
4.453	1703074	1454953	0.854	1.81		
4.546	3891543	3587538	0.922	4.15	6 Aroclor 1248	BA
4.591	55507	60505	1.090	0.05		
4.618	922889	867798	0.940	0.98		
4.679	46691	38089	0.816	0.04		
4.728	116729	92875	0.796	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	206094	200087	0.971	0.21	
4.814	1927122	1857150	0.964	2.05	6 Aroclor 1248
4.849	3694572	3560273	0.964	3.94	
4.880	4748871	3261898	0.687	5.06	6 Aroclor 1248
4.958	573809	487686	0.850	0.61	
5.038	3440920	3224544	0.937	3.67	6 Aroclor 1248
5.099	1231738	975474	0.792	1.31	
5.163	1442598	1311329	0.909	1.53	
5.213	1046539	961794	0.919	1.11	
5.285	77016	69190	0.898	0.08	
5.309	226198	194152	0.858	0.24	
5.364	920750	826849	0.898	0.98	
5.407	1532611	1323050	0.863	1.63	
5.446	983454	847993	0.862	1.04	
5.511	2532627	2102151	0.830	2.70	
5.605	736667	659983	0.896	0.78	
5.676	82056	71573	0.872	0.08	
5.717	150366	114784	0.763	0.16	
5.741	184149	167330	0.909	0.19	
5.762	57712	71463	1.238	0.06	
5.793	1735942	1359776	0.783	1.85	
5.890	231734	149127	0.644	0.24	
5.994	49770	49696	0.999	0.05	
6.025	1490983	1293880	0.868	1.59	
6.056	314721	242832	0.772	0.33	
6.169	146062	104225	0.714	0.15	
6.227	101525	50840	0.501	0.10	
6.299	449260	381467	0.849	0.47	
6.335	84948	72590	0.855	0.09	
6.375	71691	55450	0.773	0.07	
6.435	33526	20718	0.618	0.03	
6.510	77044	72111	0.936	0.08	
6.537	172087	123276	0.716	0.18	
6.609	25723	18897	0.735	0.02	
6.660	18434	15697	0.852	0.01	
6.721	70509	61602	0.874	0.07	
6.760	38763	32658	0.843	0.04	
6.802	83703	70972	0.848	0.08	
6.842	38188	23754	0.622	0.04	
6.914	13236	11502	0.869	0.01	
6.943	16695	13481	0.807	0.01	
7.006	152792	119576	0.783	0.16	
7.122	35477	27446	0.774	0.03	
7.252	56007	44086	0.787	0.05	
7.388	61340	50925	0.830	0.06	
7.446	59037	54928	0.930	0.06	
7.692	28579	27869	0.975	0.03	
7.730	76894	62730	0.816	0.08	
7.802	60957	40295	0.661	0.06	
7.901	57972	43159	0.744	0.06	
8.276	150141	122351	0.815	0.16	
8.379	21548	15836	0.735	0.02	
8.573	14394097	12289354	0.854	15.35	
8.946	18562	11531	0.621	0.01	
9.086	15319	13297	0.868	0.01	
9.963	9351	8698	0.930	0.00	
	93736539	84400610		100.000	

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2183582	1.00000	0.93	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3891542	1.00000	0.94	0.00- 20.00	178.22	BA
4.813	4.812	0.001	1927121	1.00000	0.95	0.00- 20.00	88.26	BA
4.879	4.879	0.000	4748871	1.00000	0.94	0.00- 20.00	217.48	BA
5.037	5.038	-0.001	3440920	1.00000	0.96	0.00- 20.00	157.58	BA
Average of Peak Amounts =					0.94400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

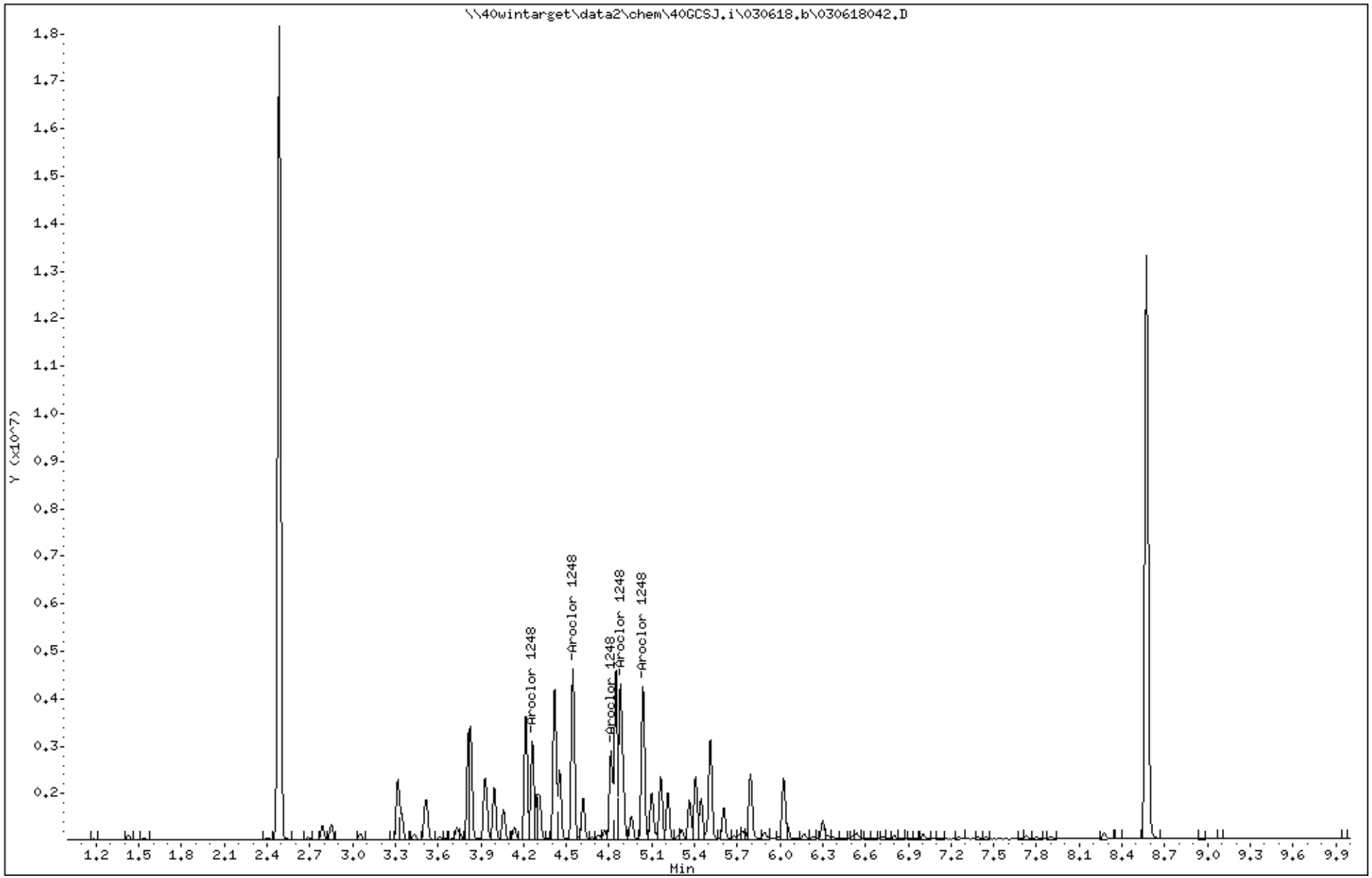
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

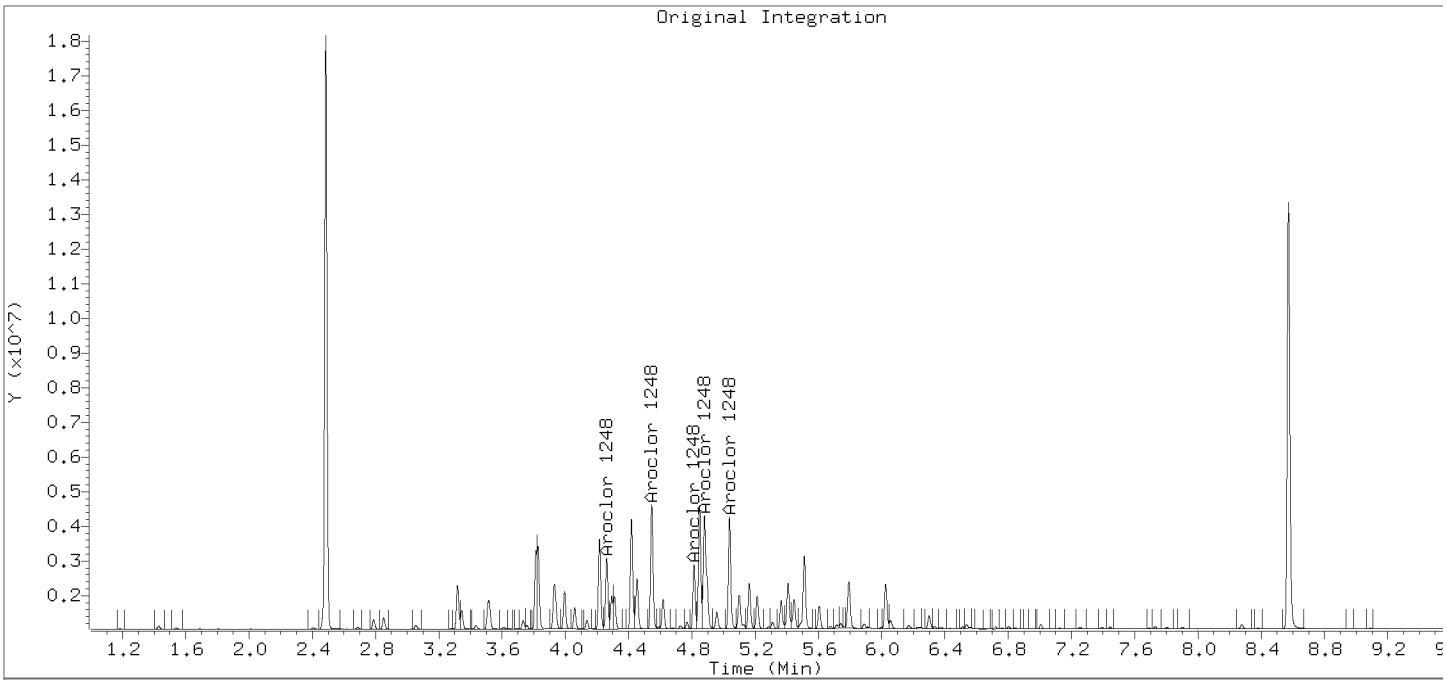
Operator: BLM

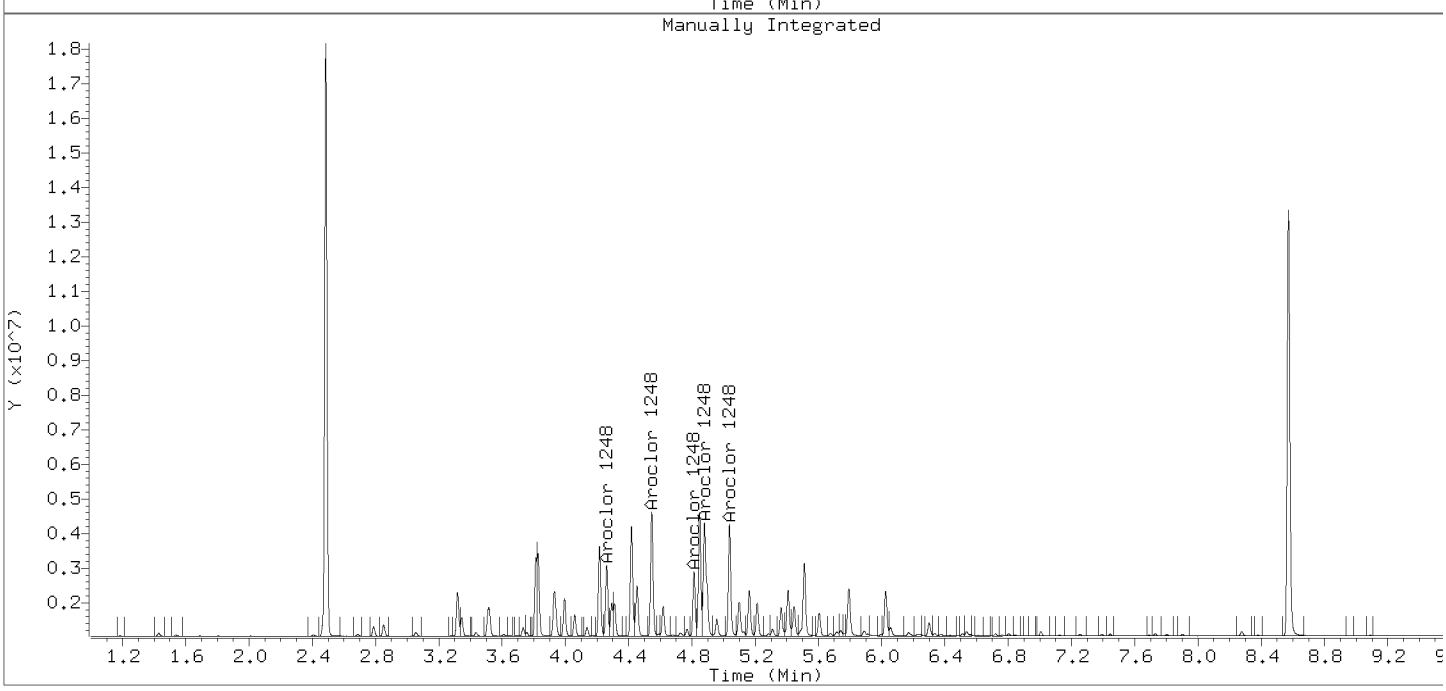
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

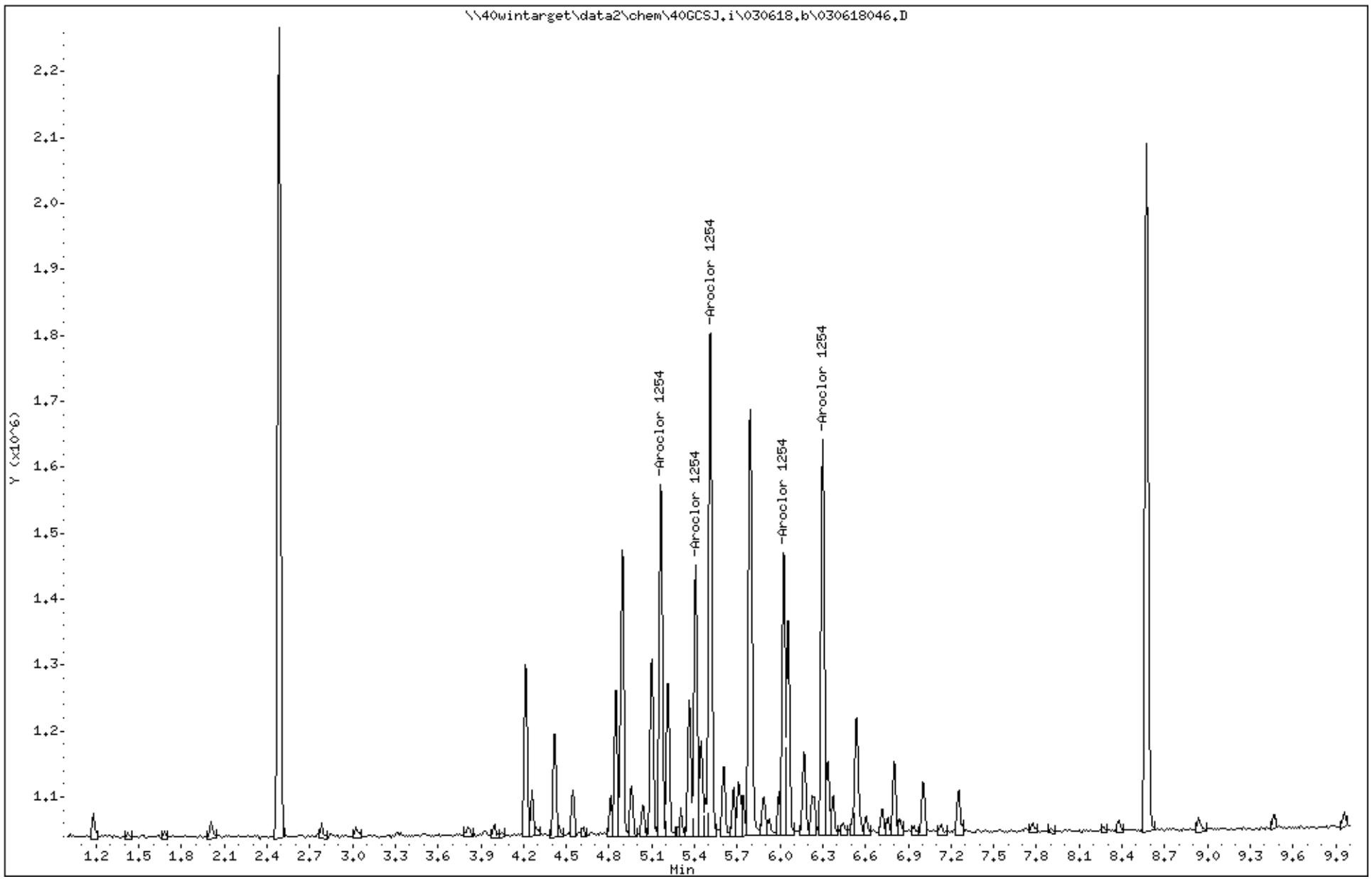
M - Compound response manually integrated.

Review Codes Legend

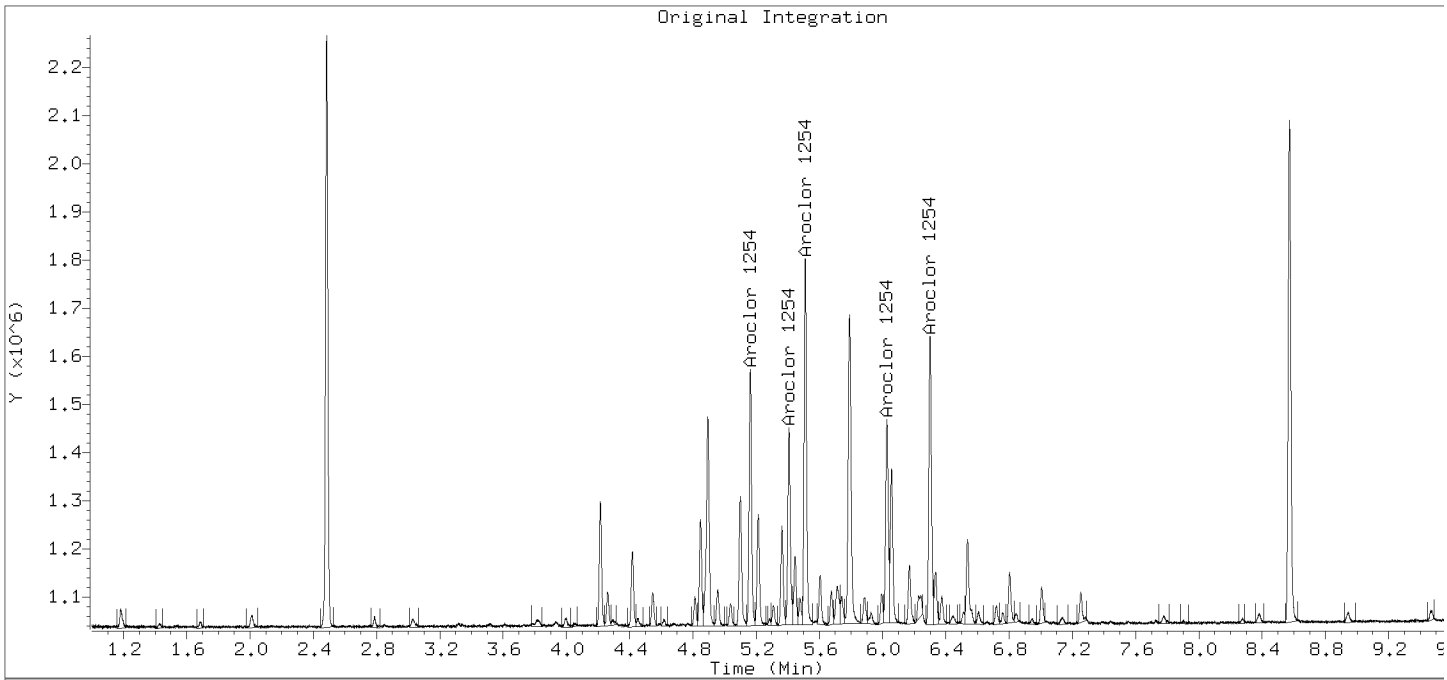
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

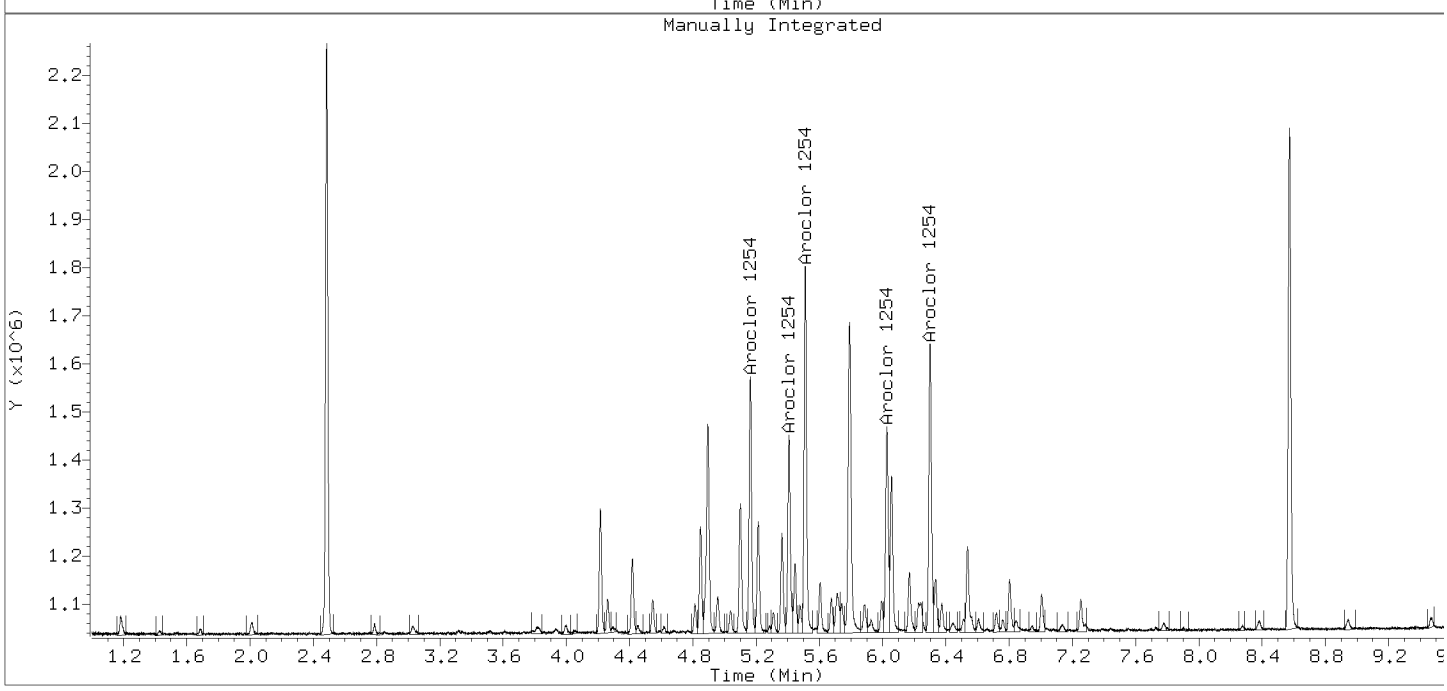
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

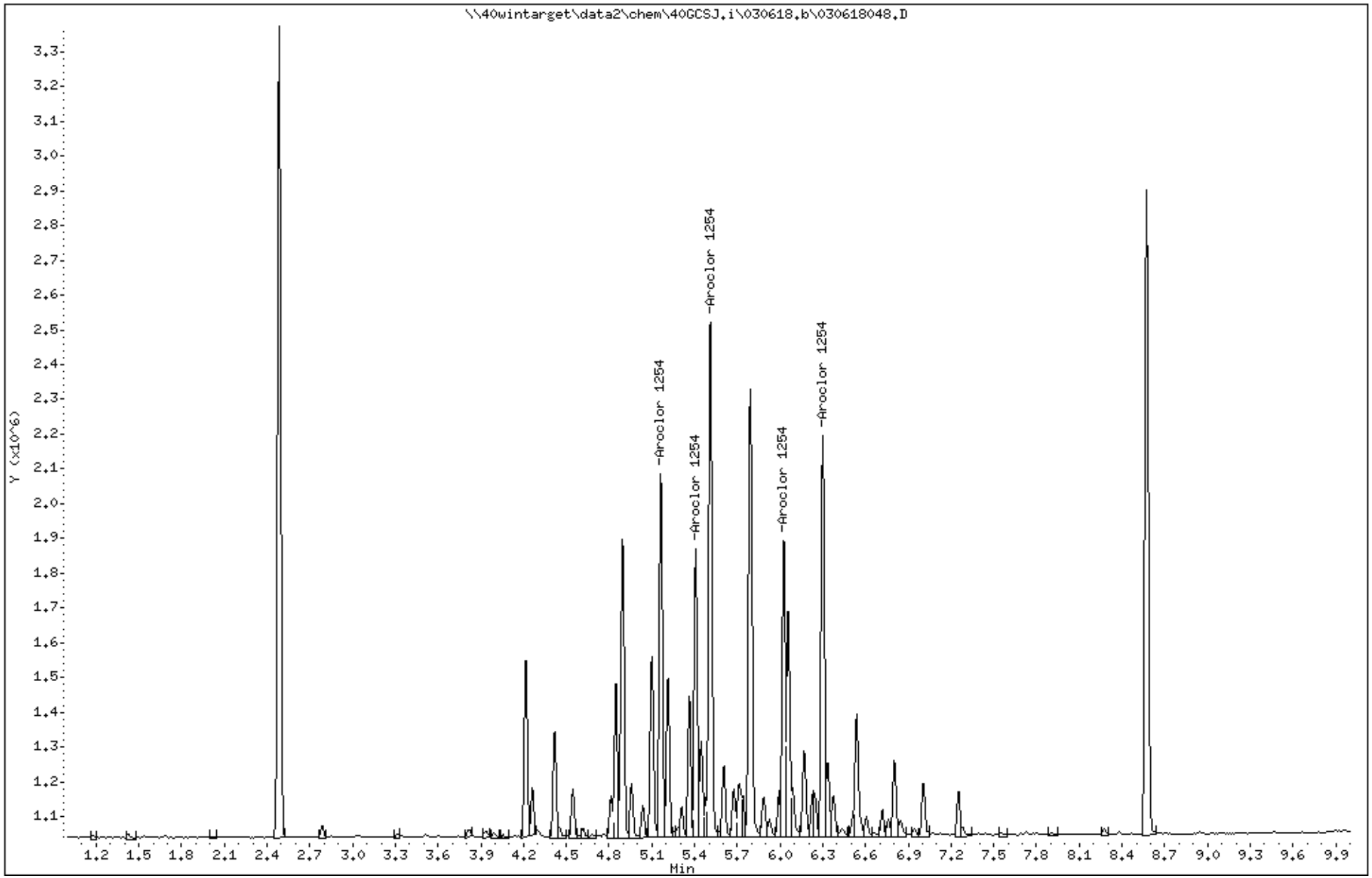
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i

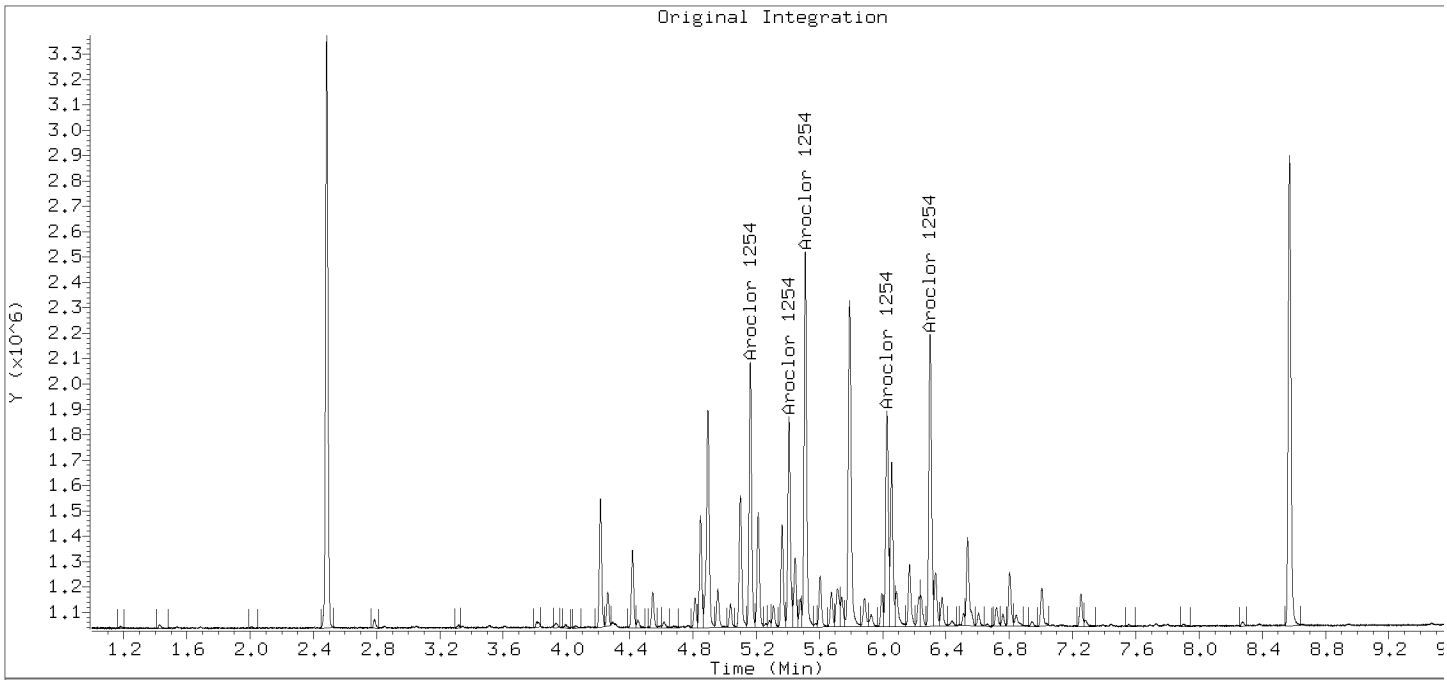
Operator: BLM

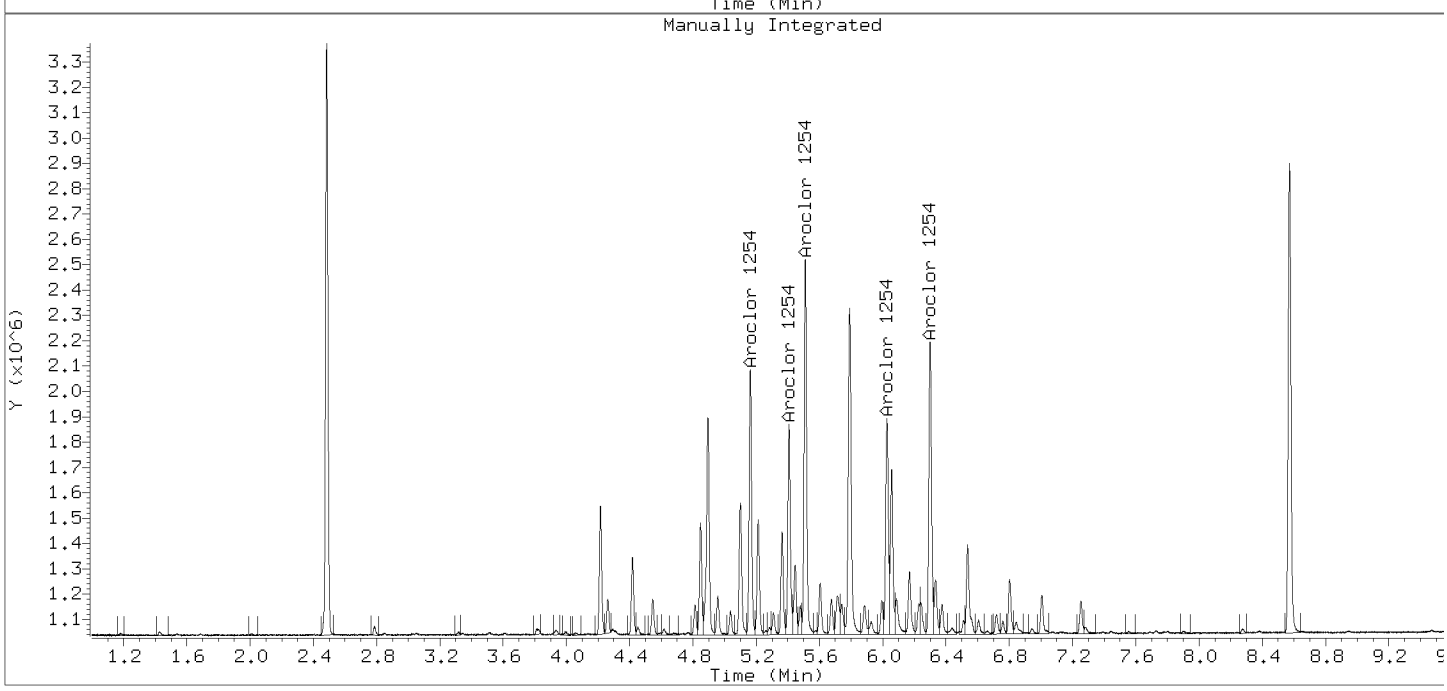
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

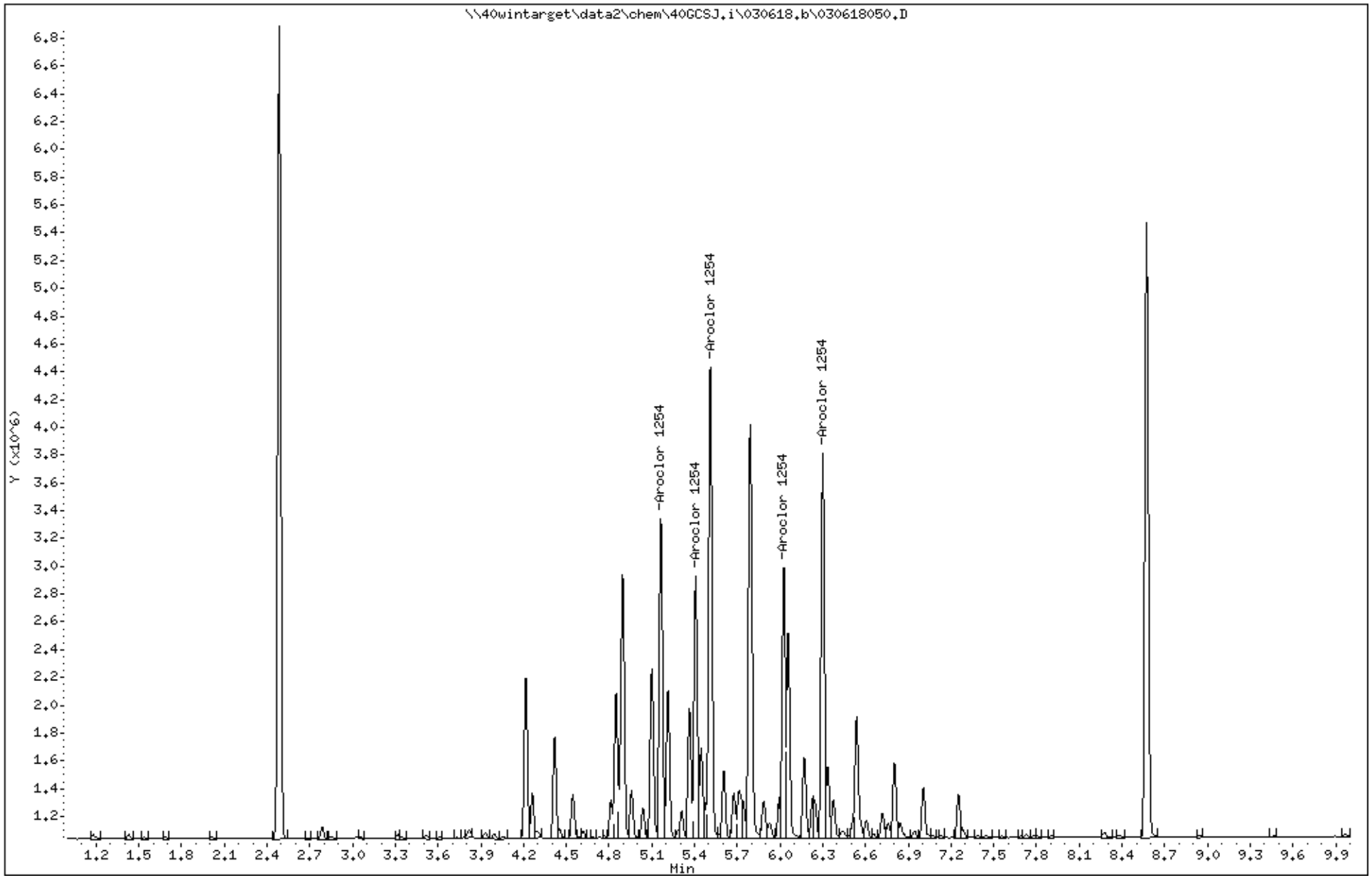
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

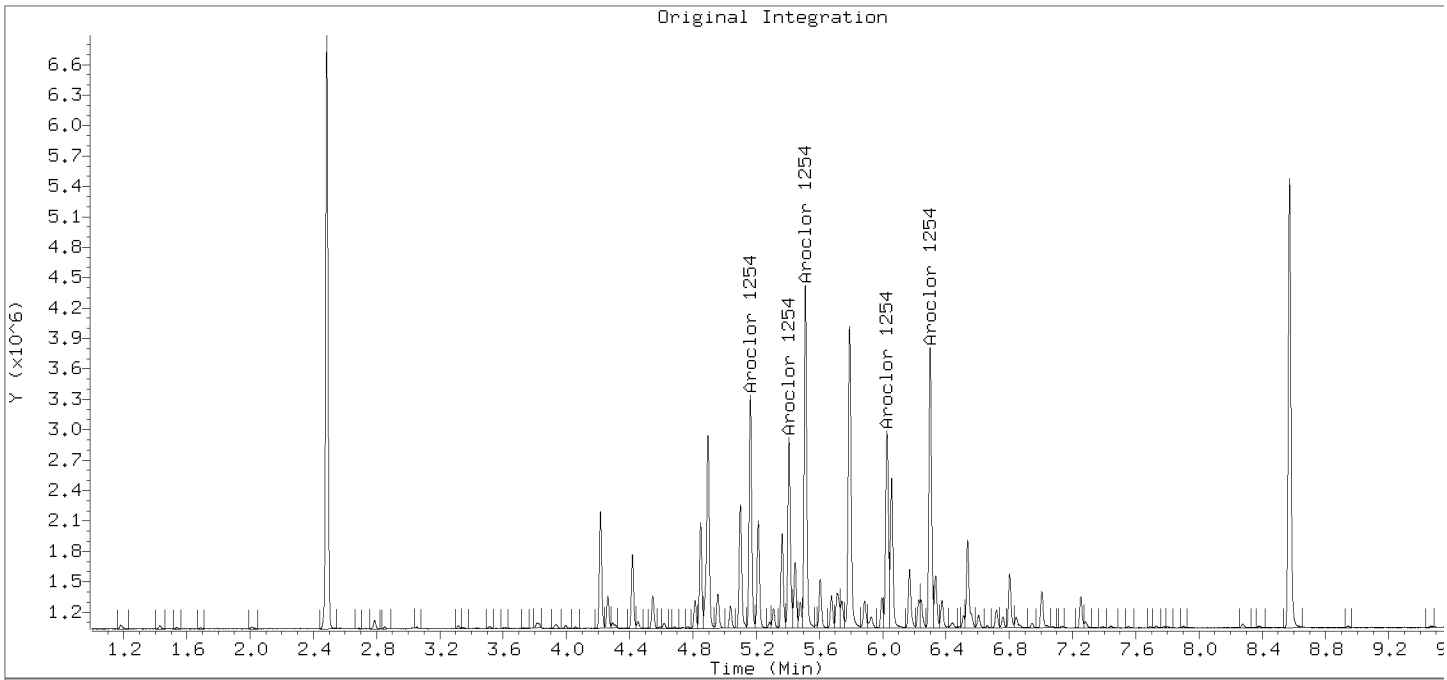
Operator: BLM

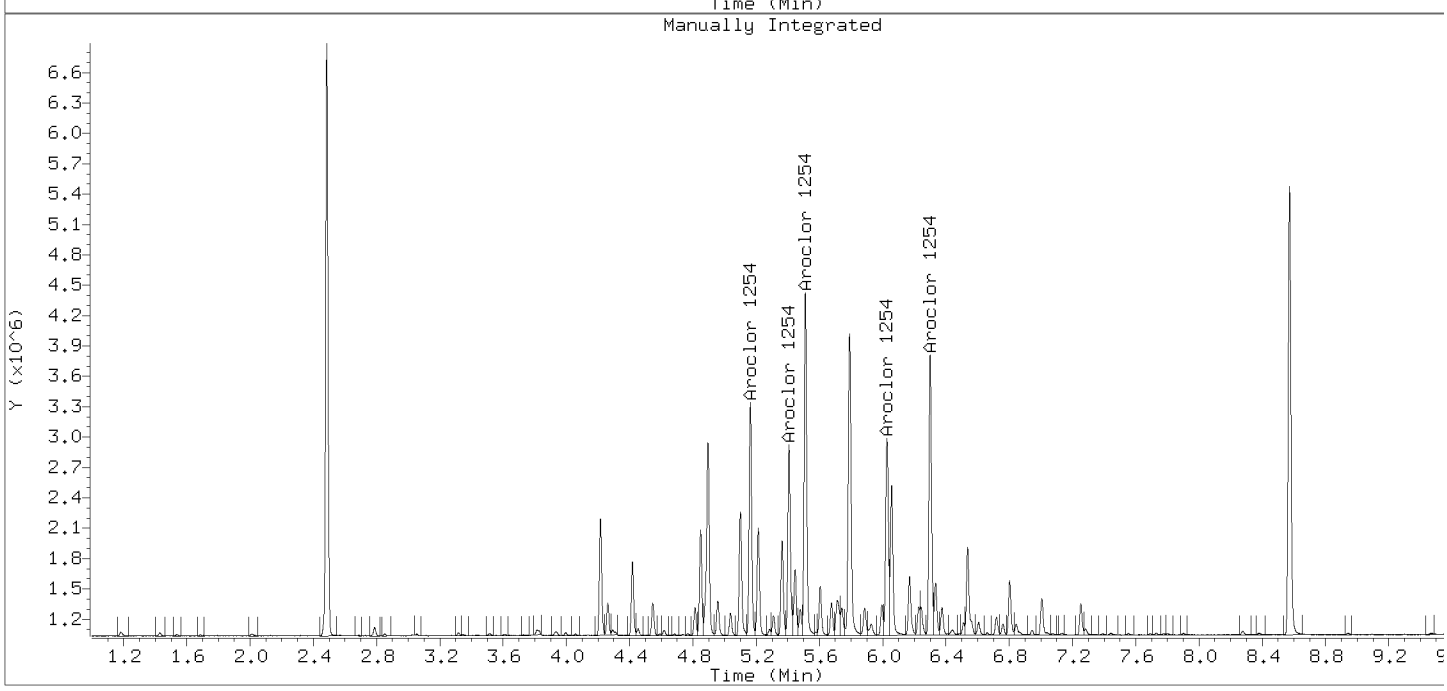
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

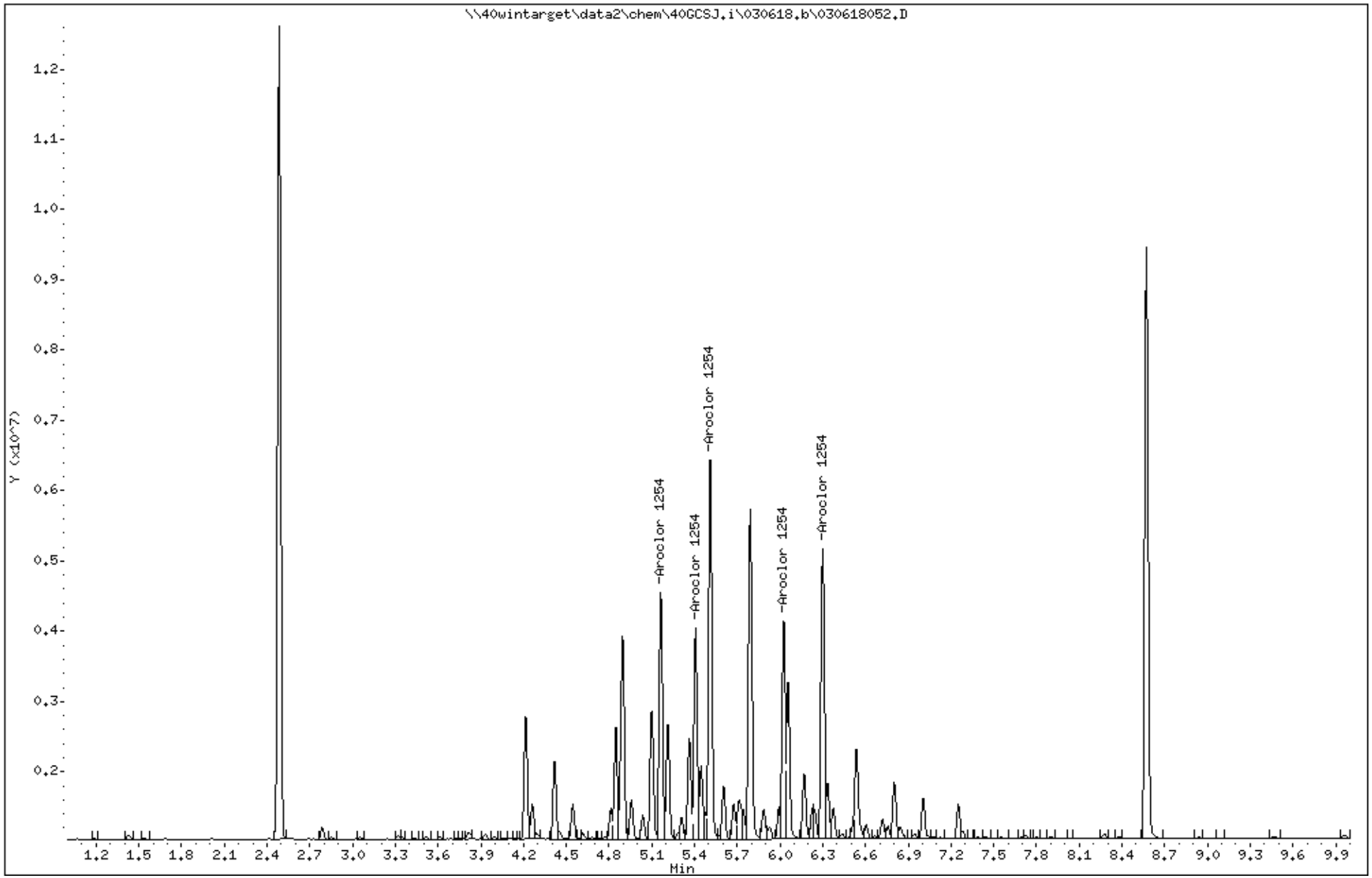
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

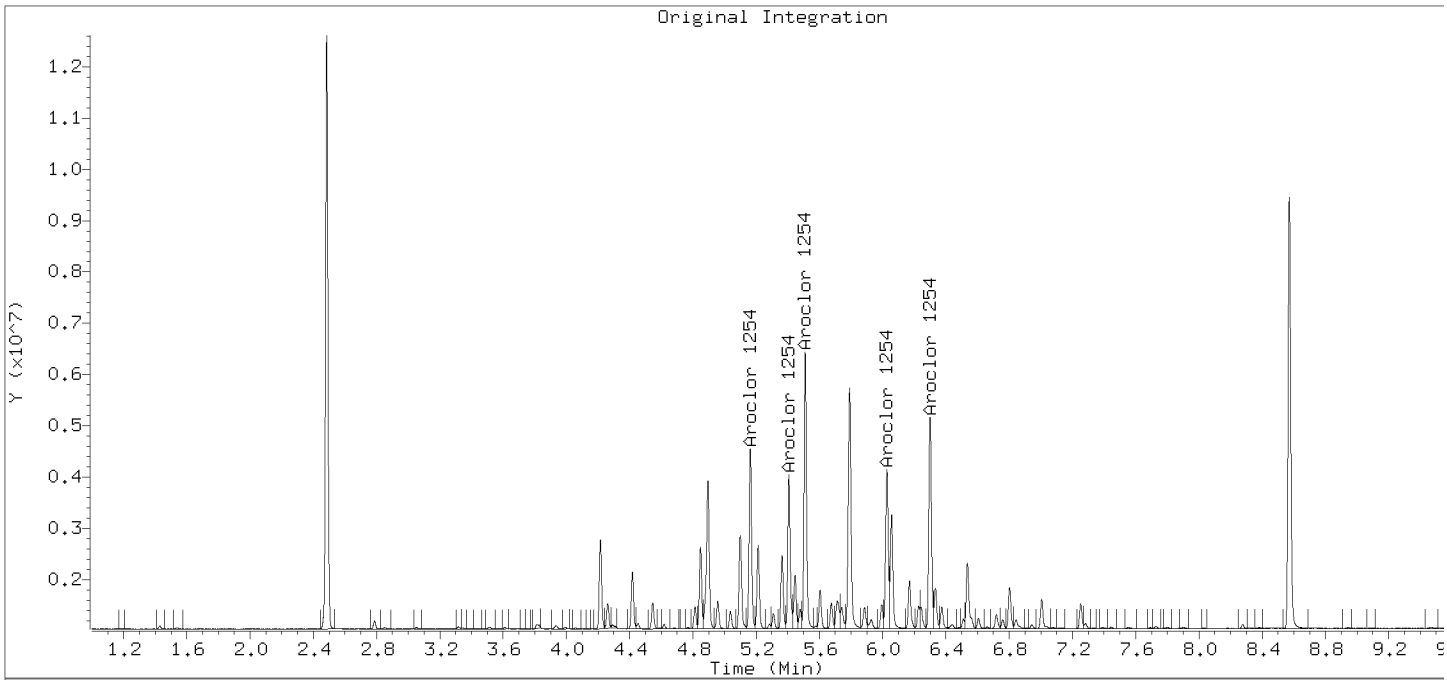
Operator: BLM

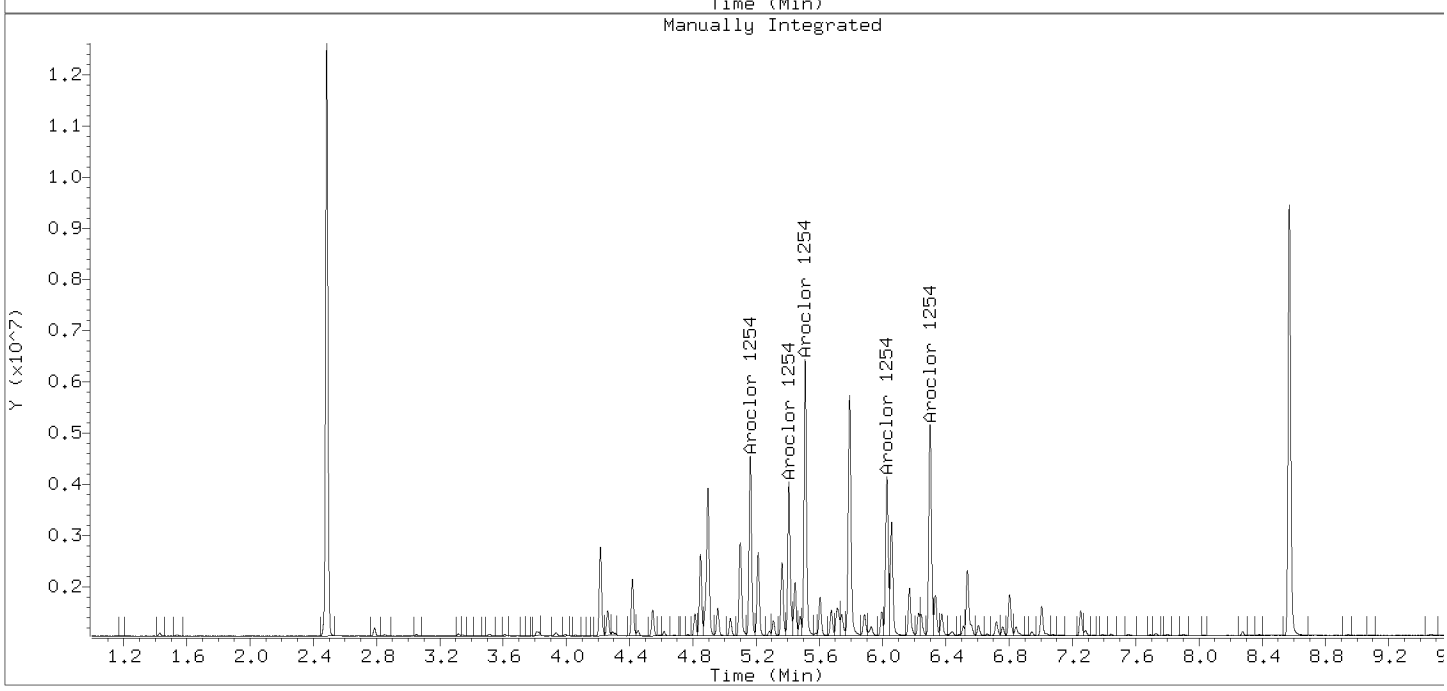
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

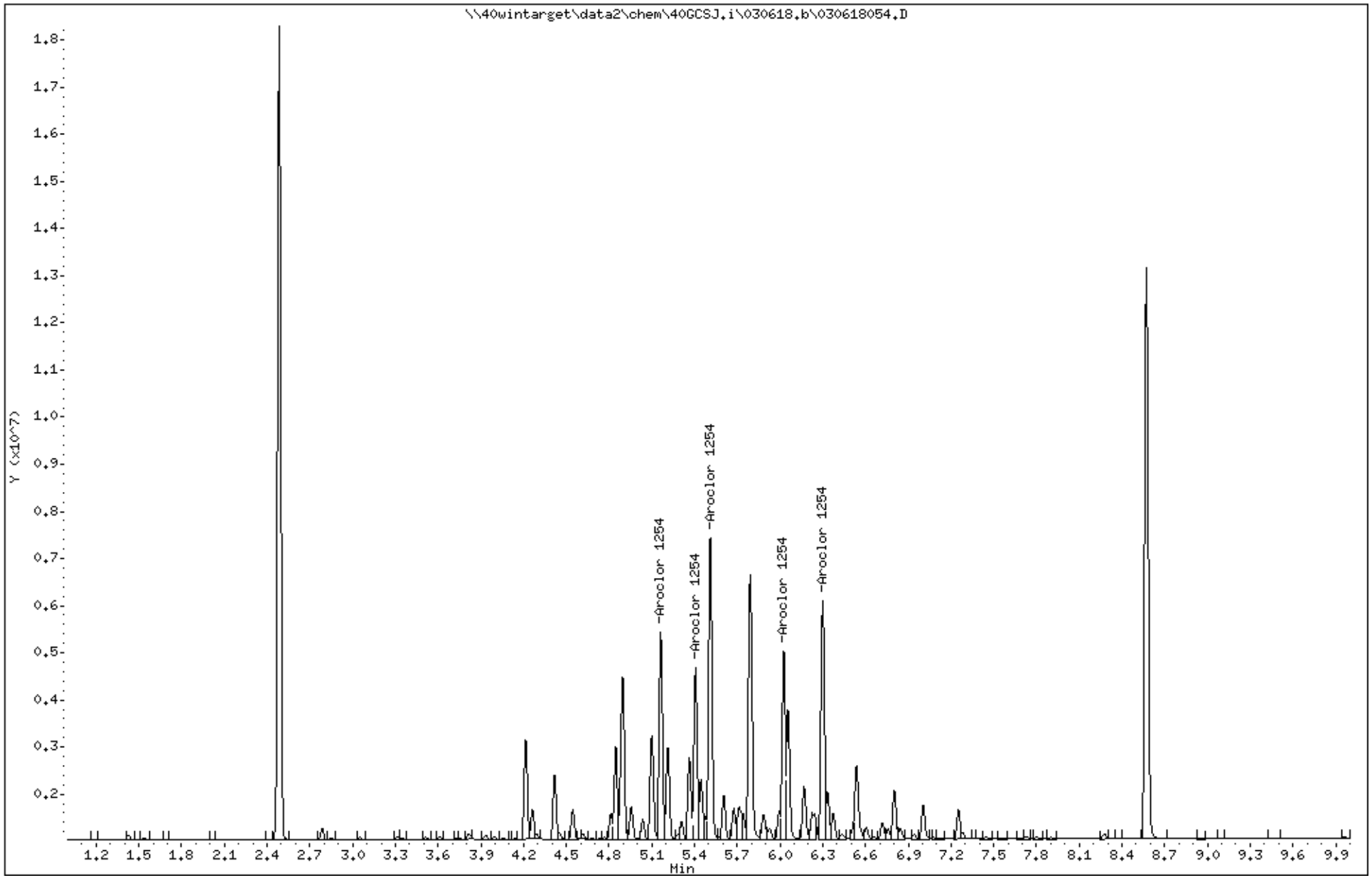
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

Column phase: ZB-1ms

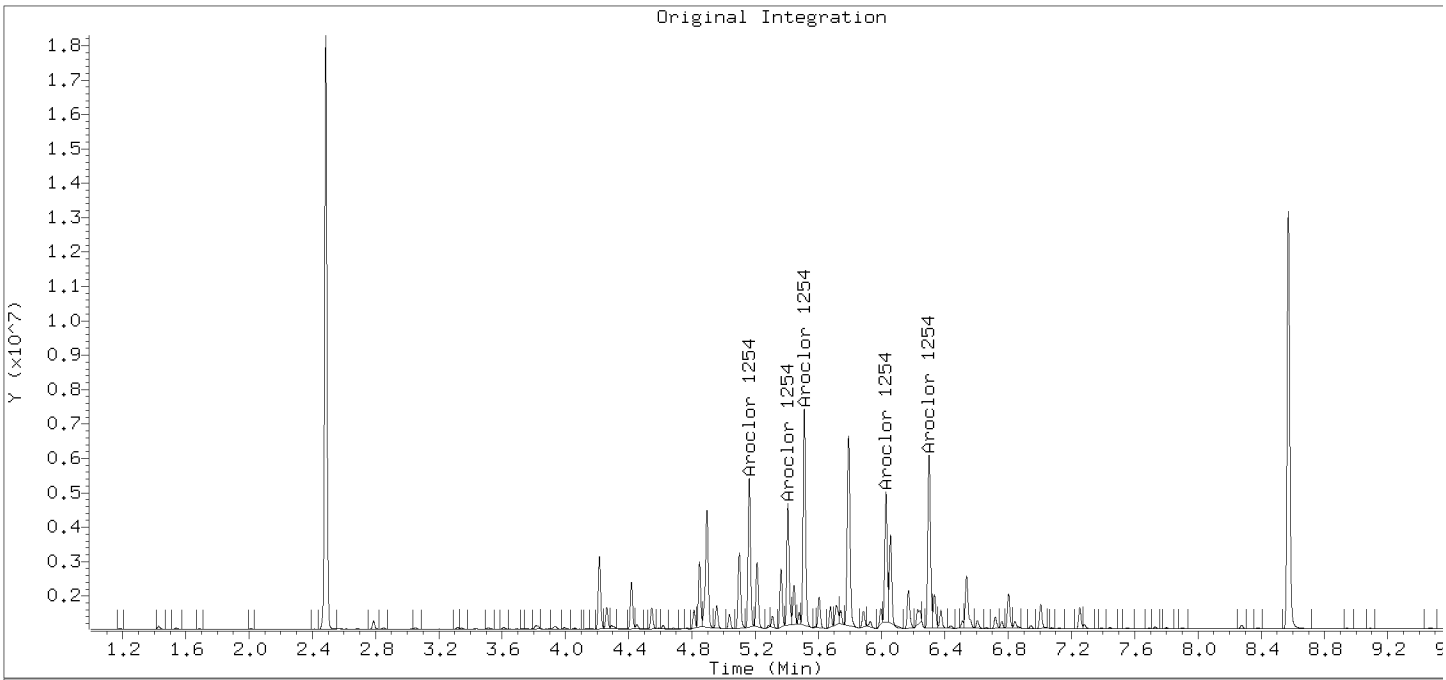
Instrument: 40GCSJ.i

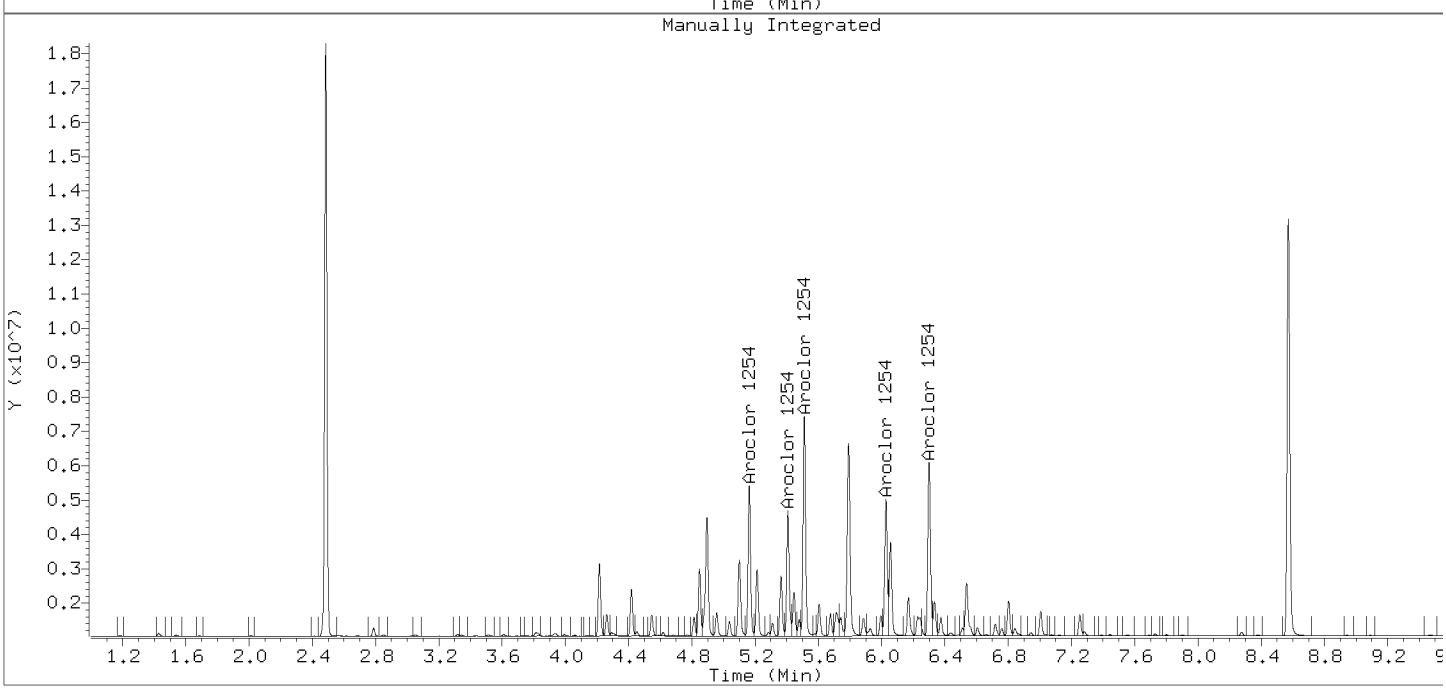
Operator: BLM

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

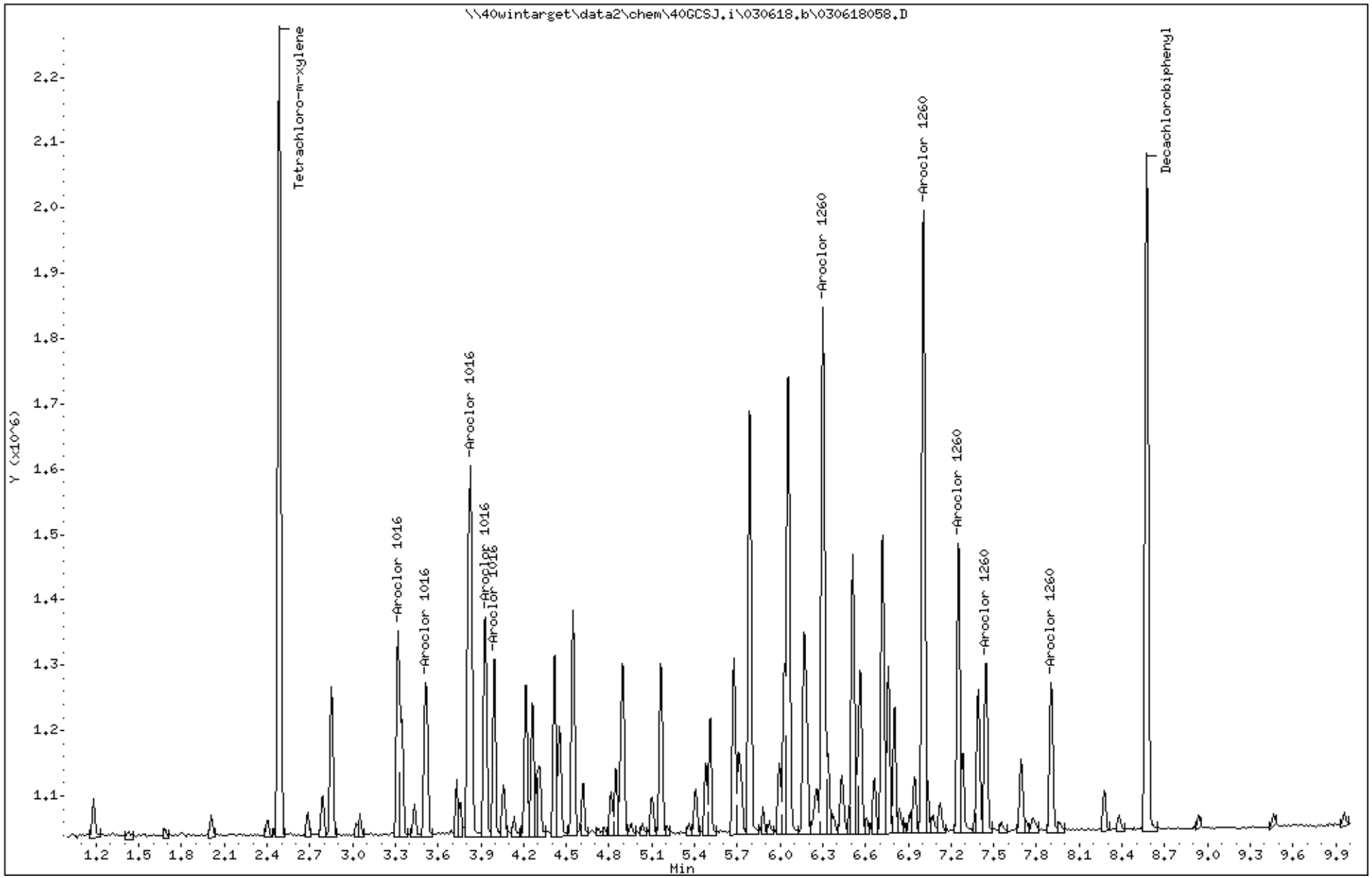
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

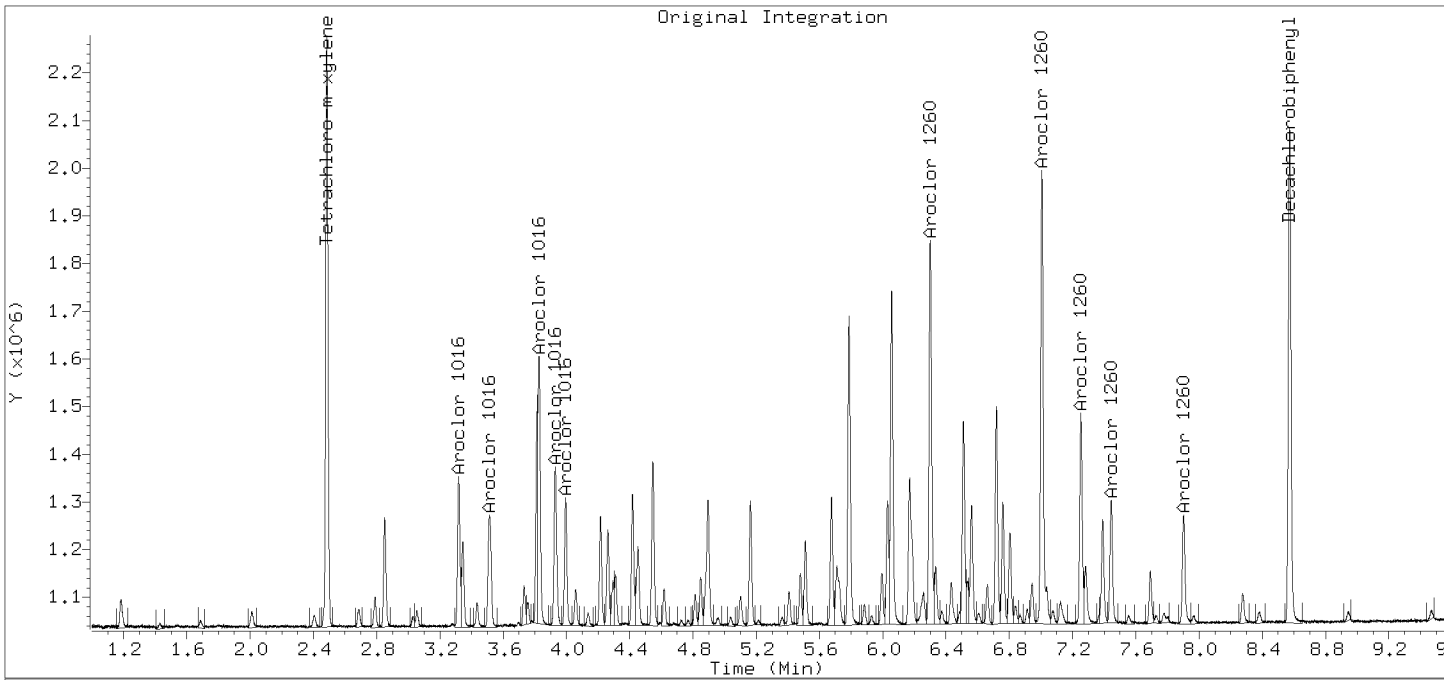
Operator: BLM

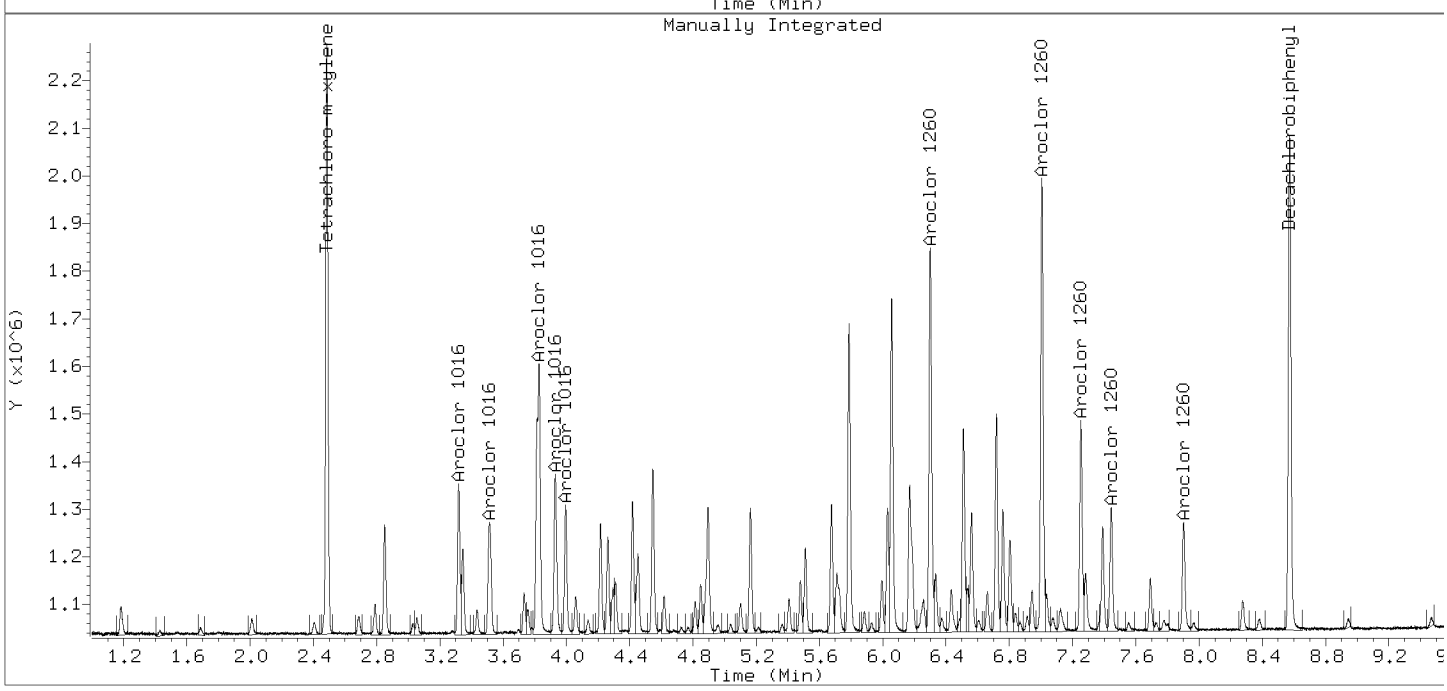
Column phase: ZB-1ms

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

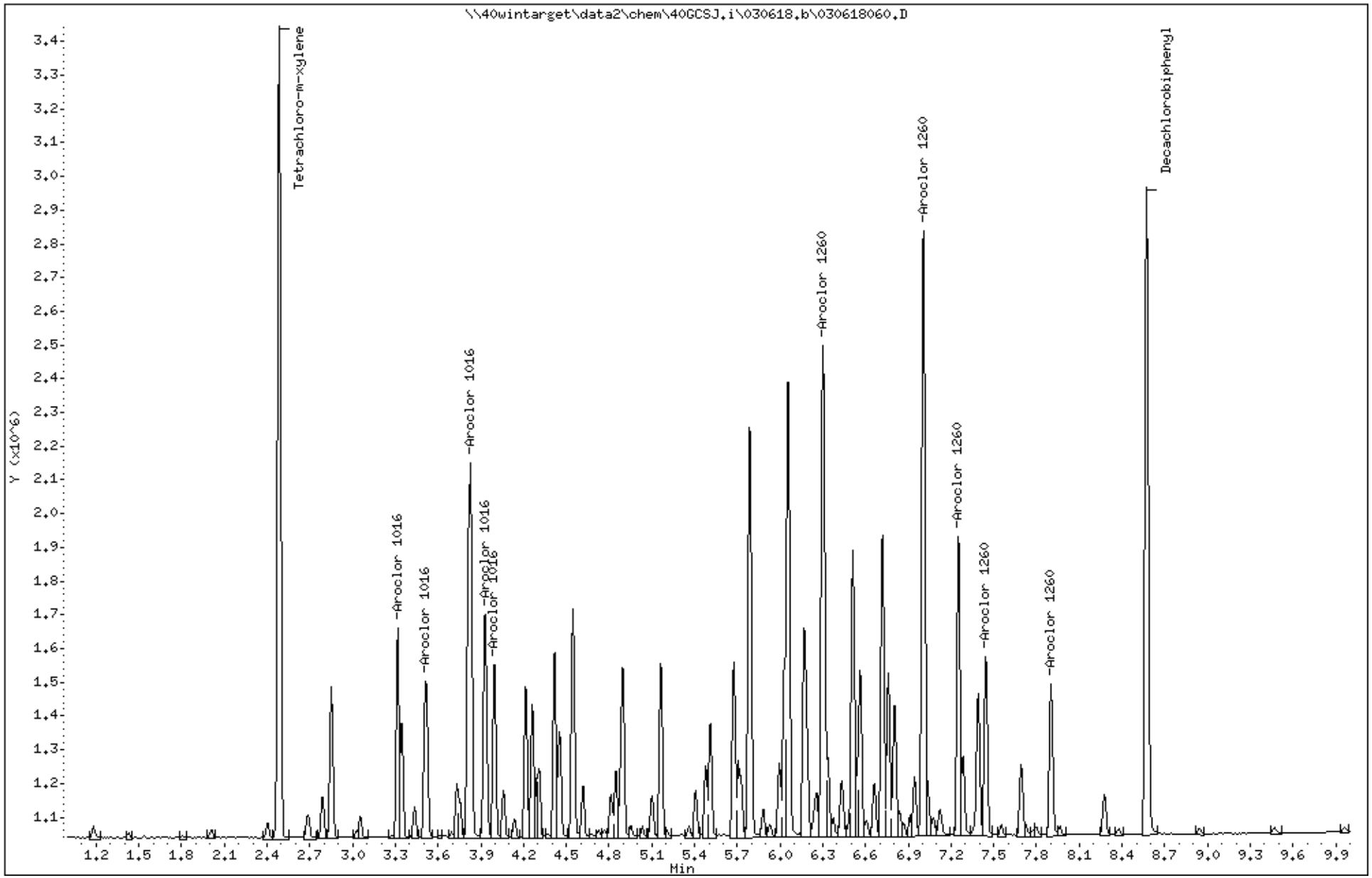
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

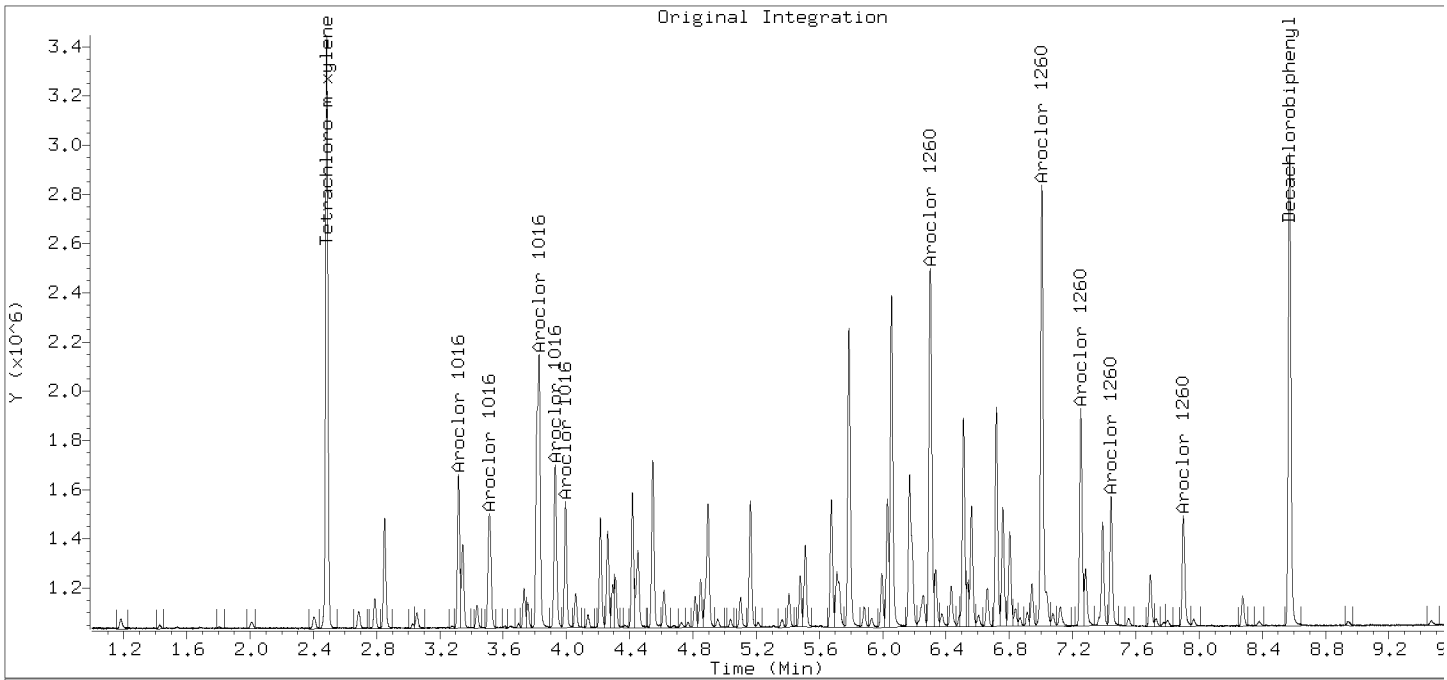
Operator: BLM

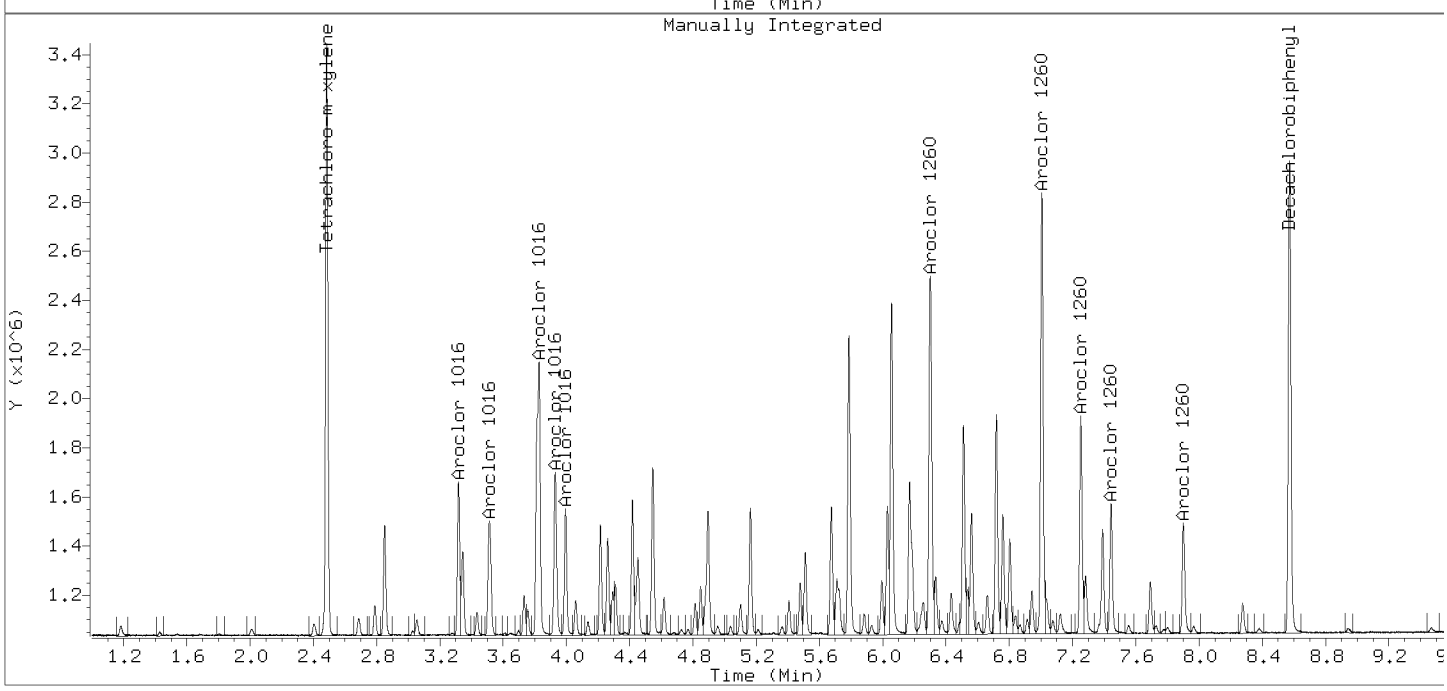
Column phase: ZB-1ms

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.

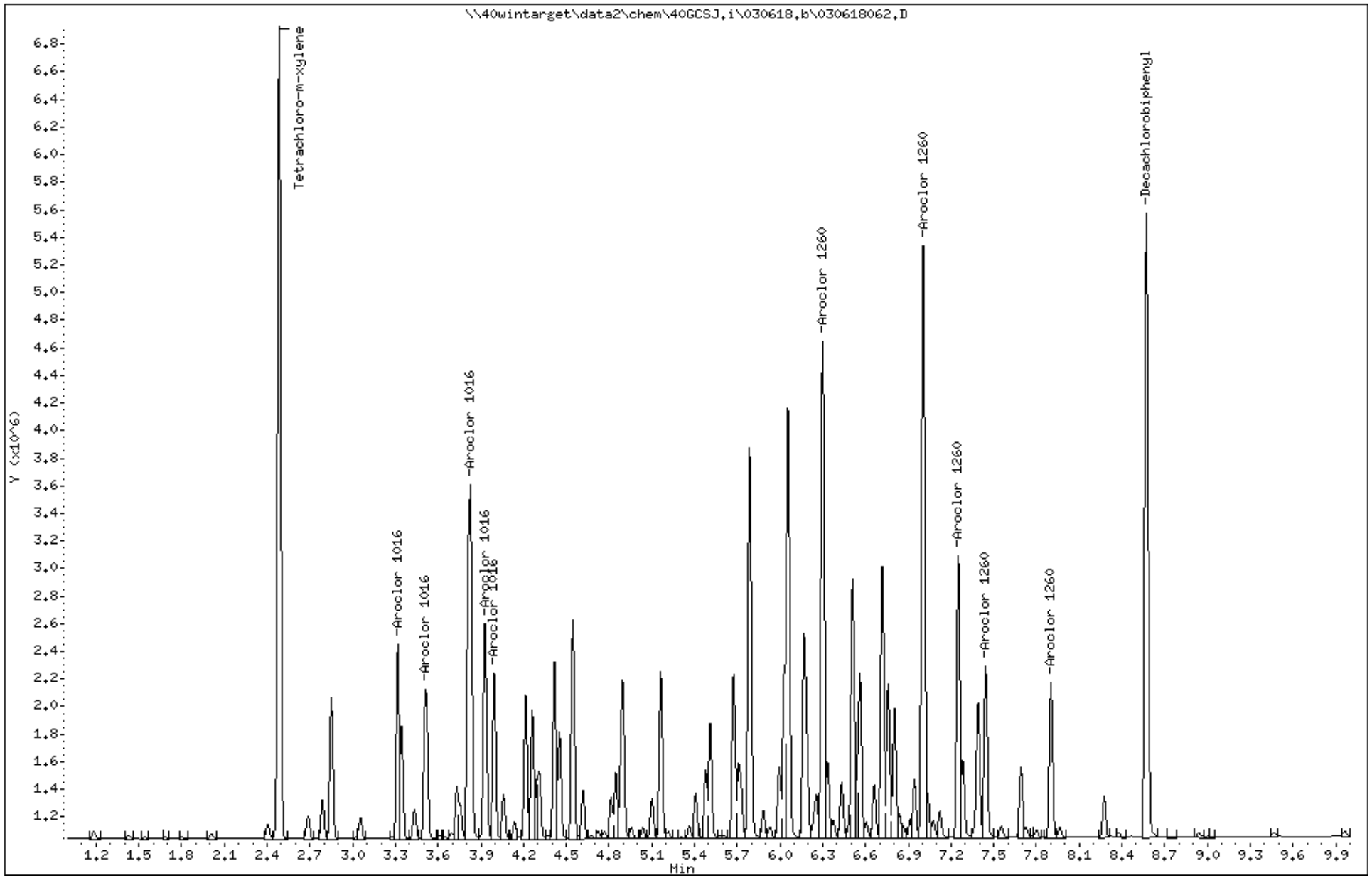
QC Flag Legend

Review Codes Legend

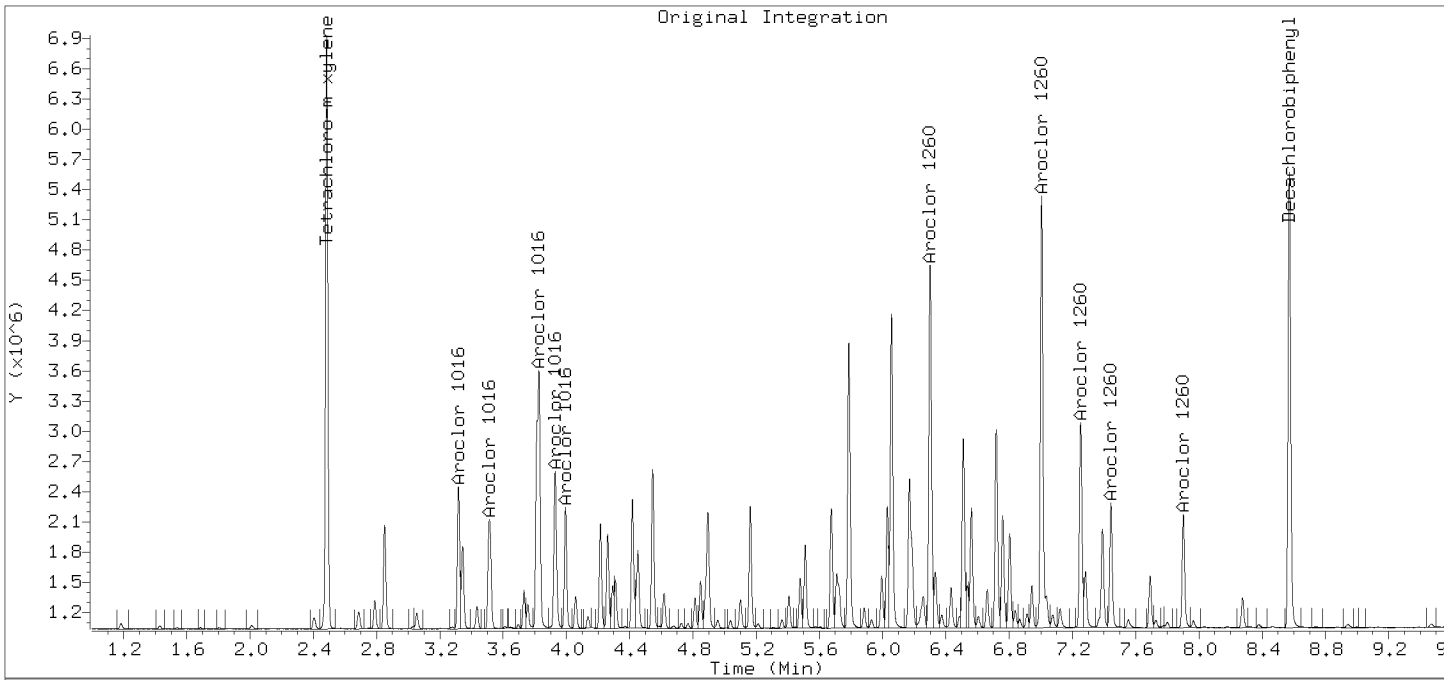
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

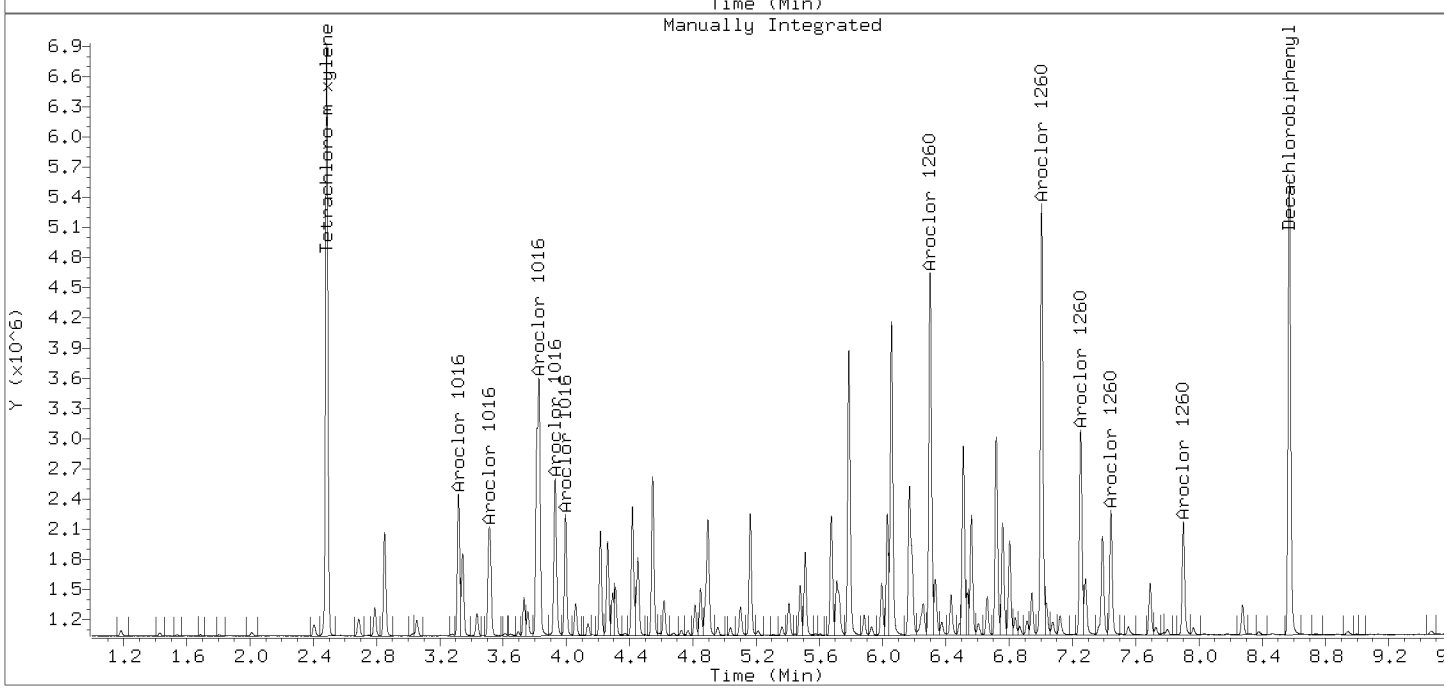
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

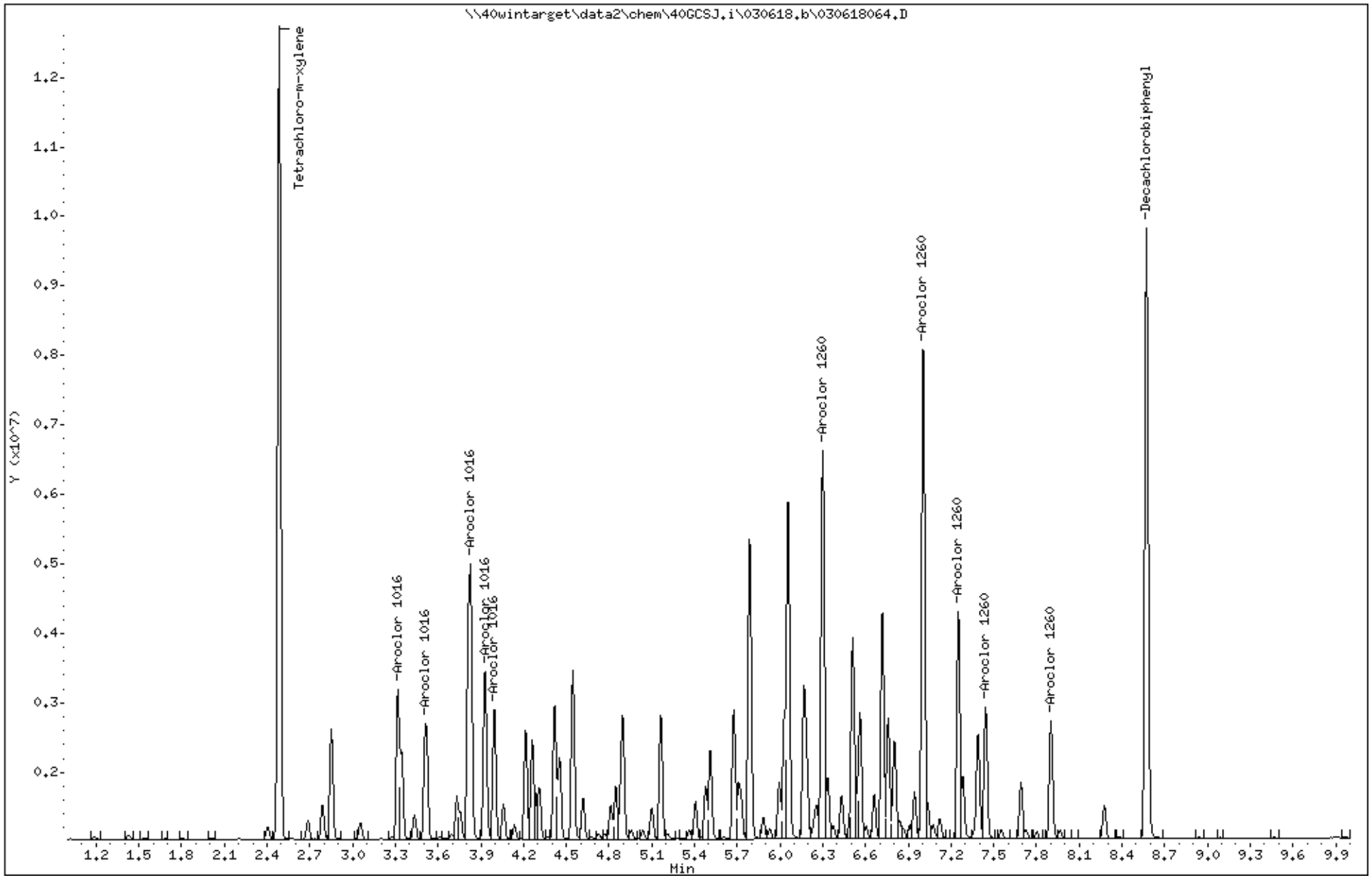
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

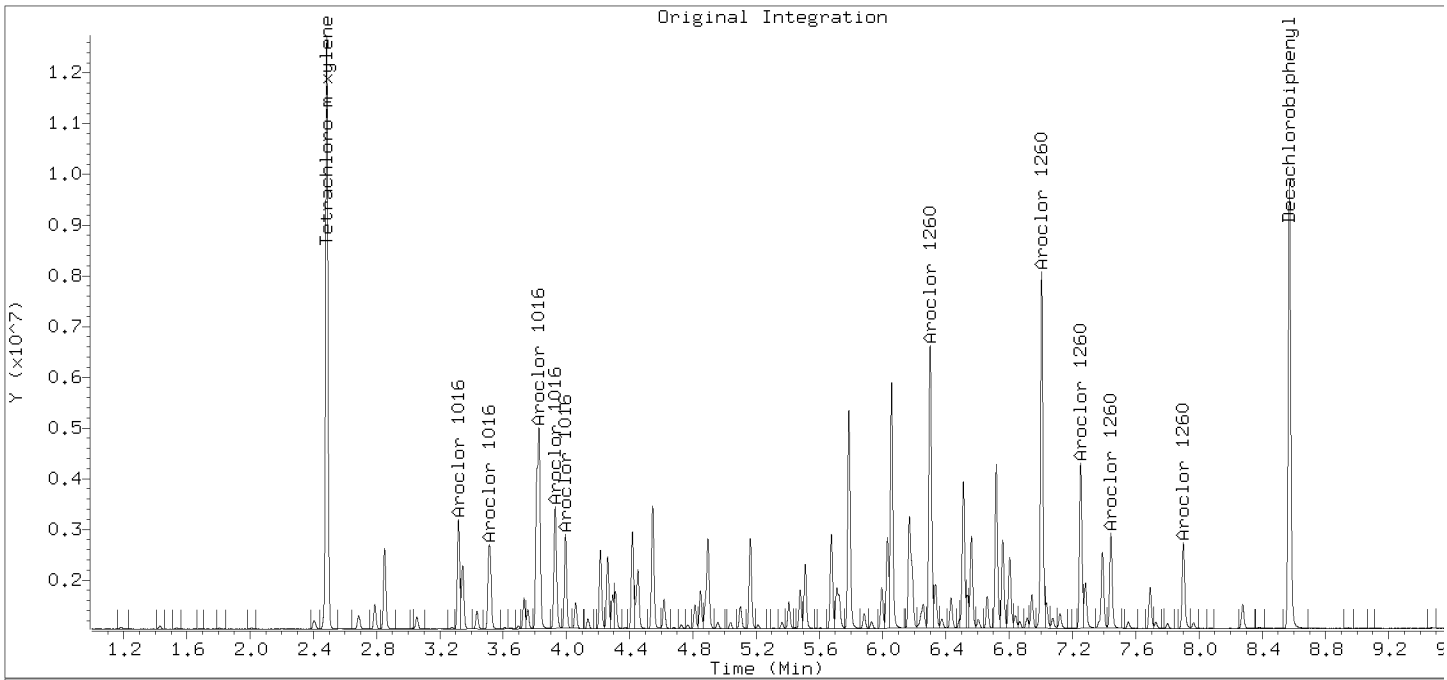
Operator: BLM

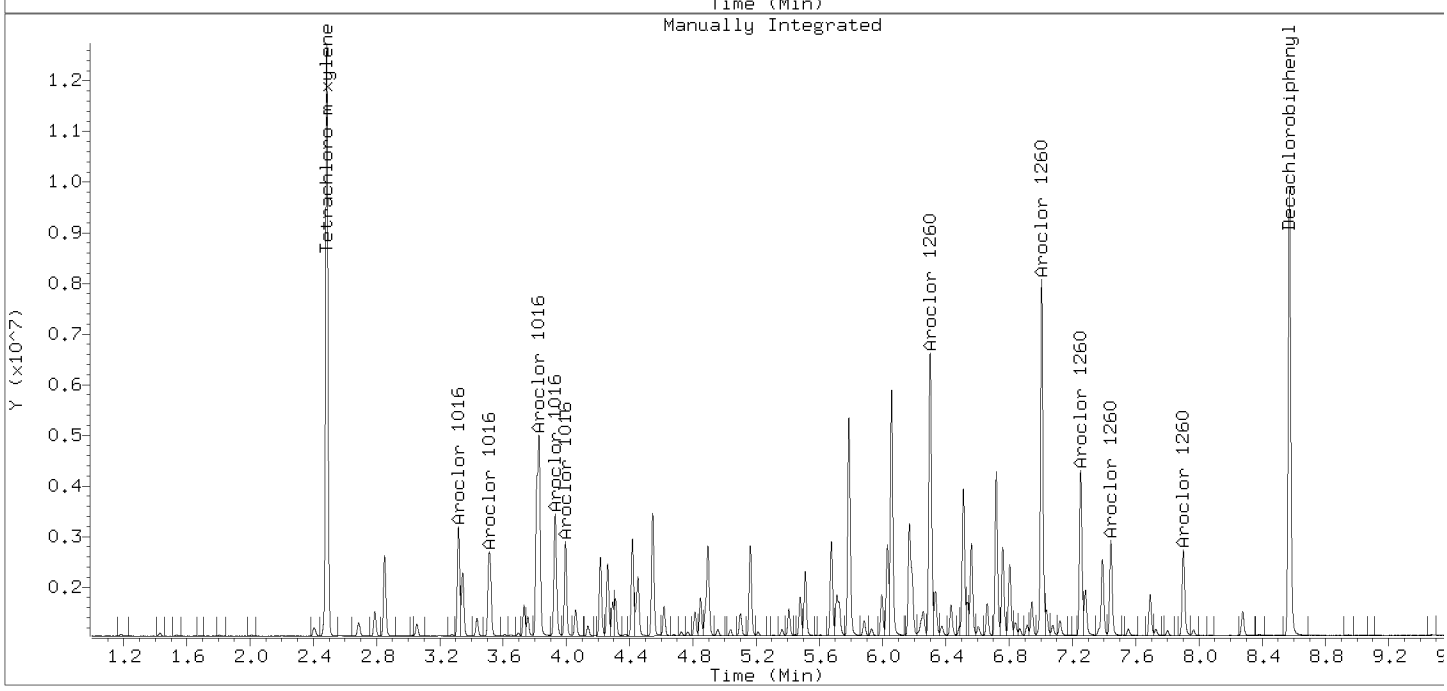
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

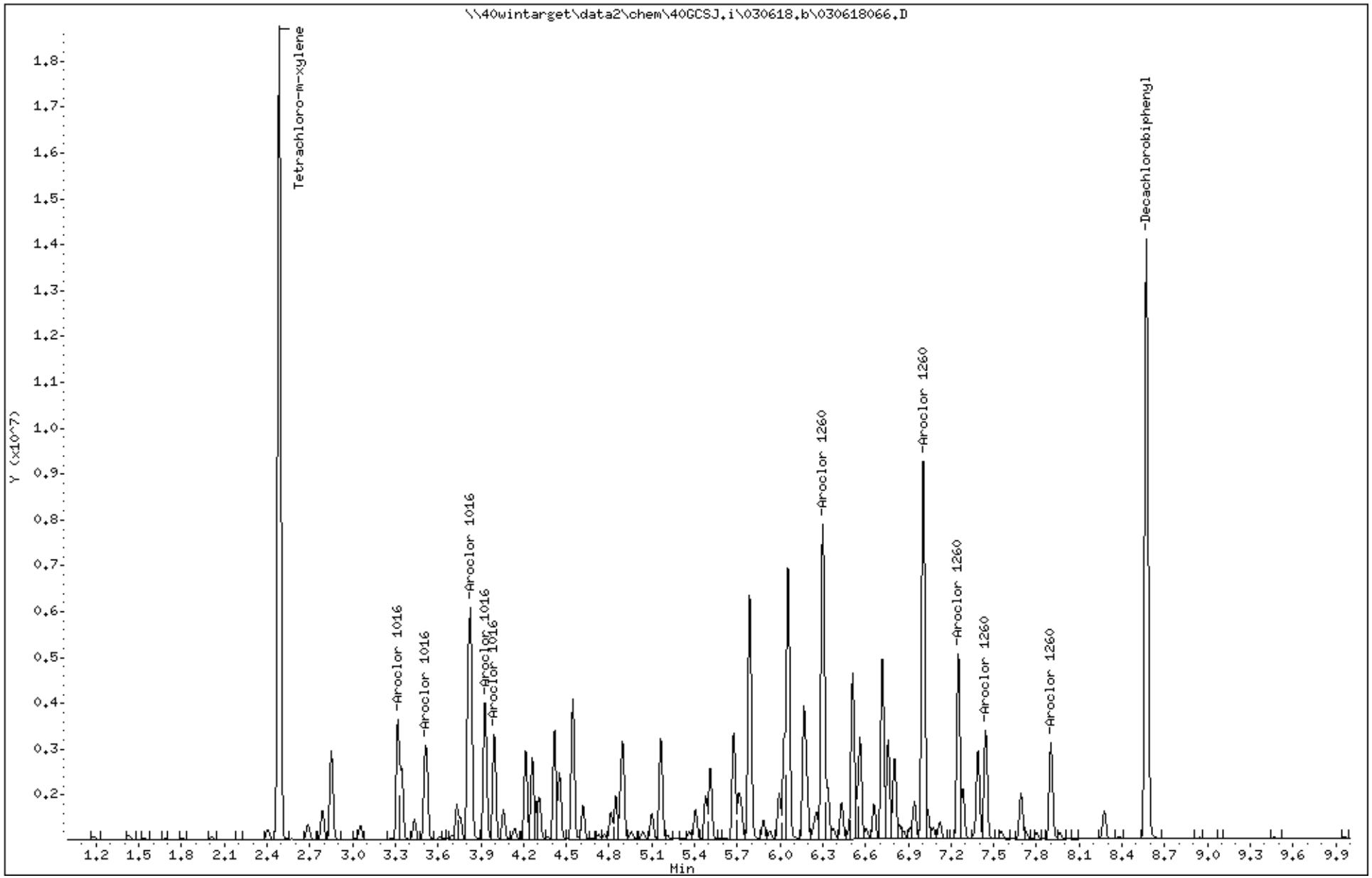
M - Compound response manually integrated.

Review Codes Legend

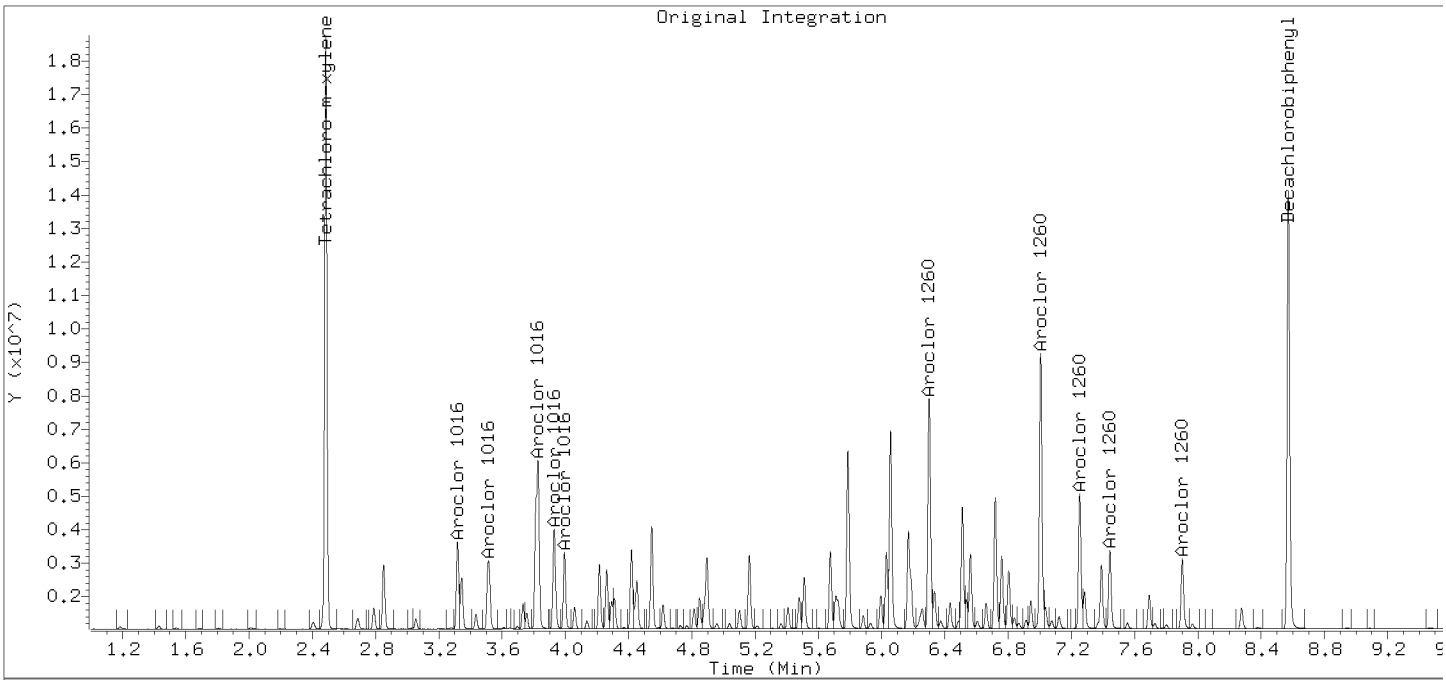
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

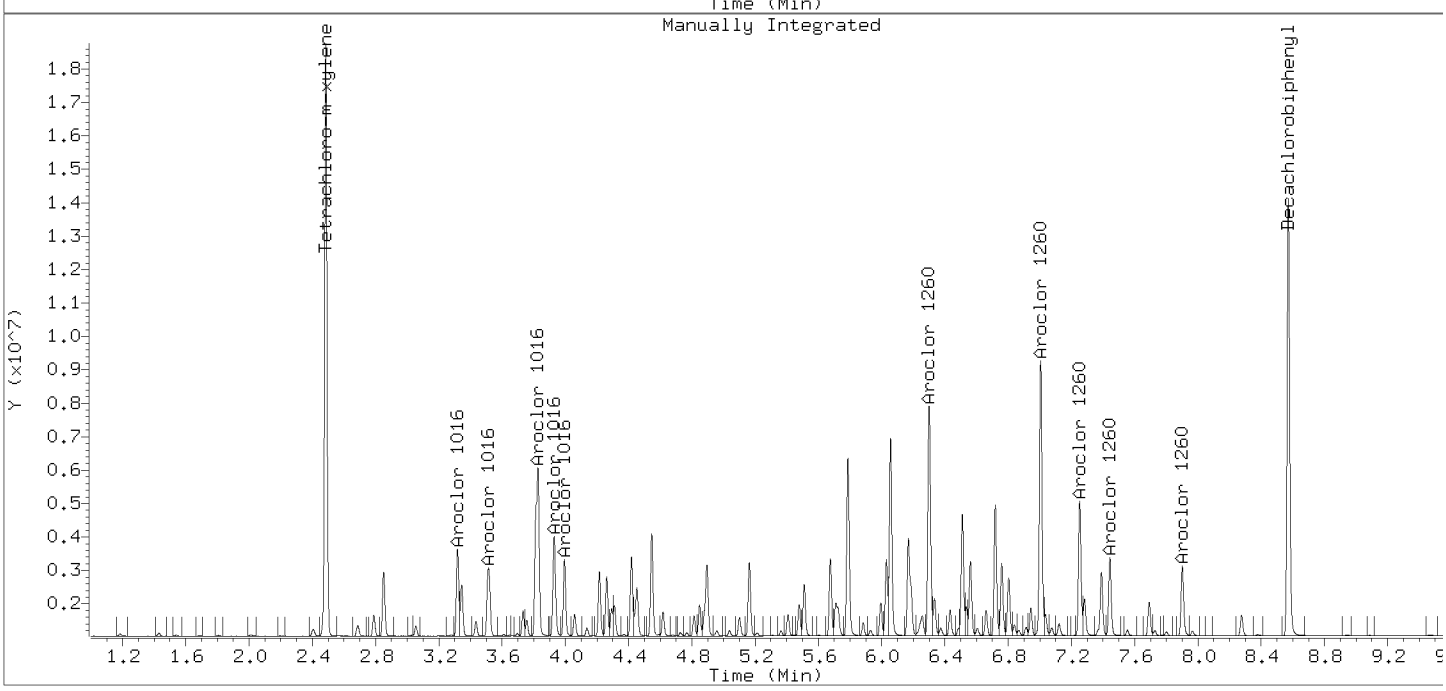
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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



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





Manually Integrated Compounds

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

PCB Low Level Calibration % Difference Check

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

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

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151804

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.: 40151804

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.: 40151804

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.: 40151804

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.: 40151804

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.

10780908CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/13/2018 Time: 14:18

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

Lab File ID: 031318.B\031318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151804

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	2333598.00	-7.8794
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2303554.00	-8.5903
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	6211628.00	-12.7146
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	2669418.00	-12.2345
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	1775018.00	-13.3185
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	92920240.0	-15.1878
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	111046180.	-9.9346

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

SAMPLE NO.

10780906CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/13/2018 Time: 17:28
Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018
Lab File ID: 031318.B\031318016.D
Init. Calib. Time(s): 11:02 19:39
SDG No.: 40151804

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2229724.00	-4.8336
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	3900338.00	-6.0229
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	1923484.00	-5.2508
Aroclor 1248	4	Averaged	4.877	4.845	4.913	5037445.65	4751220.00	-5.6820
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3372468.00	-6.0213
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	98260660.0	-10.3134
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	114350280.	-7.2548

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

SAMPLE NO.

10780907CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/13/2018 Time: 20:38

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

Lab File ID: 031318.B\031318028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151804

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	4994170.00	-4.6049
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4141278.00	-3.7148
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	7387378.00	-4.8762
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	4798086.00	-1.4703
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	6264704.00	-3.7252
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	100885640.	-7.9174
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	116825480.	-5.2473

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

SAMPLE NO.

10780905CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/13/2018 Time: 21:57

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

Lab File ID: 031318.B\031318033.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151804

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	3088058.00	0.2346
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3066438.00	-1.0508
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	8733328.00	-1.4496
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3735594.00	-1.1806
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2513226.00	-3.4618
Aroclor 1260	1	Averaged	6.298	6.266	6.334	8862352.50	8775148.00	-0.9840
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	9877216.00	-1.3696
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	4800772.00	0.4387
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	2859866.00	-1.8951
Aroclor 1260	5	Averaged	7.898	7.867	7.935	2638735.95	2594212.00	-1.6873
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	106543800.	-2.7530
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	122463180.	-0.6747

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

SAMPLE NO.

10842790CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 13:19

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

Lab File ID: 032018.B\032018004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151804

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	2347046.00	-6.1191
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1273822.00	-4.9232
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3408346.00	-9.1041
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1458530.00	-9.2103
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	953732.000	-12.6520
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	94451220.0	-13.7904
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	110264740.	-10.5684

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

SAMPLE NO.

10842795CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 16:29

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

Lab File ID: 032018.B\032018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151804

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	2552980.00	0.7809
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2523760.00	0.1479
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7122812.00	0.0893
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3055274.00	0.4517
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2044686.00	-0.1495
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	103411200.	-5.6123
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119382160.	-3.1736

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

SAMPLE NO.

10860013CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151804

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2546654.00	0.5312
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2528060.00	0.3185
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7066942.00	-0.6958
Aroclor 1242	4	Averaged	3.929	3.895	3.963	3041534.65	3028536.00	-0.4274
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2011672.00	-1.7617
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	104280400.	-4.8189
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118932640.	-3.5382

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

SAMPLE NO.

10860015CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151804

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.261	4.227	4.295	2342973.85	2443730.00	4.3004
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4277822.00	3.0724
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2160242.00	6.4117
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5300408.00	5.2202
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3797570.00	5.8248
Decachlorobiphenyl (S)		Averaged	8.568	8.537	8.605	109559990.	110950540.	1.2692
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	122703060.	-0.4802

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

SAMPLE NO.

10860014CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/23/2018 Time: 19:45

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

Lab File ID: 032318.B\032318028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151804

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	5353588.00	2.2605
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4439574.00	3.2206
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	7987178.00	2.8472
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5231188.00	7.4236
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	6840038.00	5.1165
Decachlorobiphenyl (S)		Averaged	8.568	8.537	8.605	109559990.	111402260.	1.6815
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122415920.	-0.7131

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

SAMPLE NO.

10860012CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/23/2018 Time: 21:05

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

Lab File ID: 032318.B\032318033.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151804

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	3180772.00	3.2440
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3179116.00	2.5851
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9274820.00	4.6608
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3941350.00	4.2624
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2649332.00	1.7663
Aroclor 1260	1	Averaged	6.298	6.266	6.334	8862352.50	9389274.00	5.9456
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10680700.0	6.6537
Aroclor 1260	3	Averaged	7.249	7.217	7.285	4779803.15	5197030.00	8.7290
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3074608.00	5.4714
Aroclor 1260	5	Averaged	7.898	7.867	7.935	2638735.95	2812414.00	6.5819
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	114585340.	4.5868
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	124970720.	1.3590

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

SAMPLE NO.

10860058CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151804

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.261	4.227	4.295	2342973.85	2399018.00	2.3920
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4130584.00	-0.4752
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	1943748.00	-4.2526
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	4977884.00	-1.1824
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3408276.00	-5.0235
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	106355840.	-2.9246
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	121675920.	-1.3133

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

SAMPLE NO.

10860057CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151804

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	5360540.00	2.3932
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4417658.00	2.7110
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	7966952.00	2.5867
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4910110.00	0.8302
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	6650844.00	2.2090
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111142300.	1.4442
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124666640.	1.1124

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

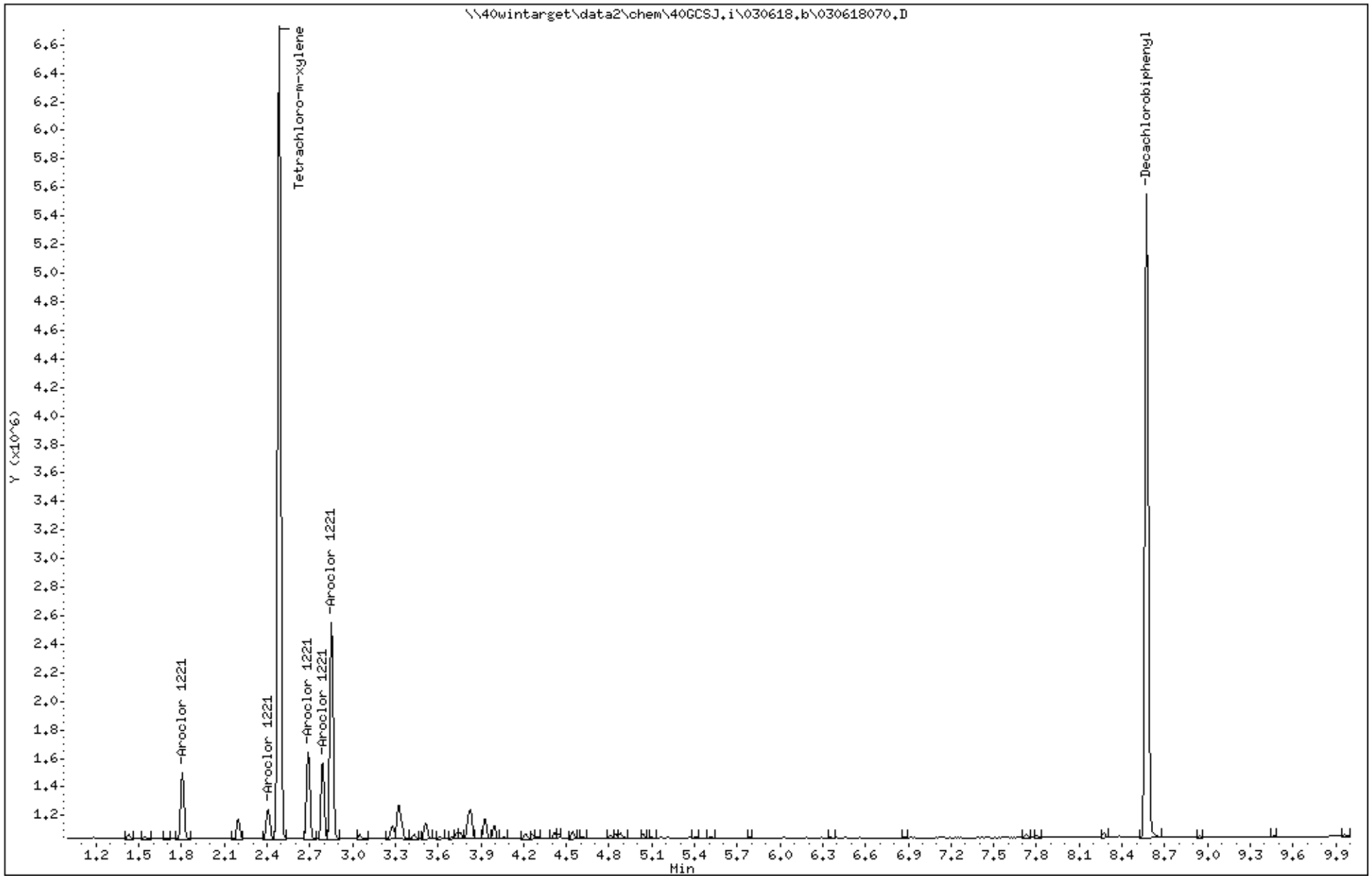
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSJ.i

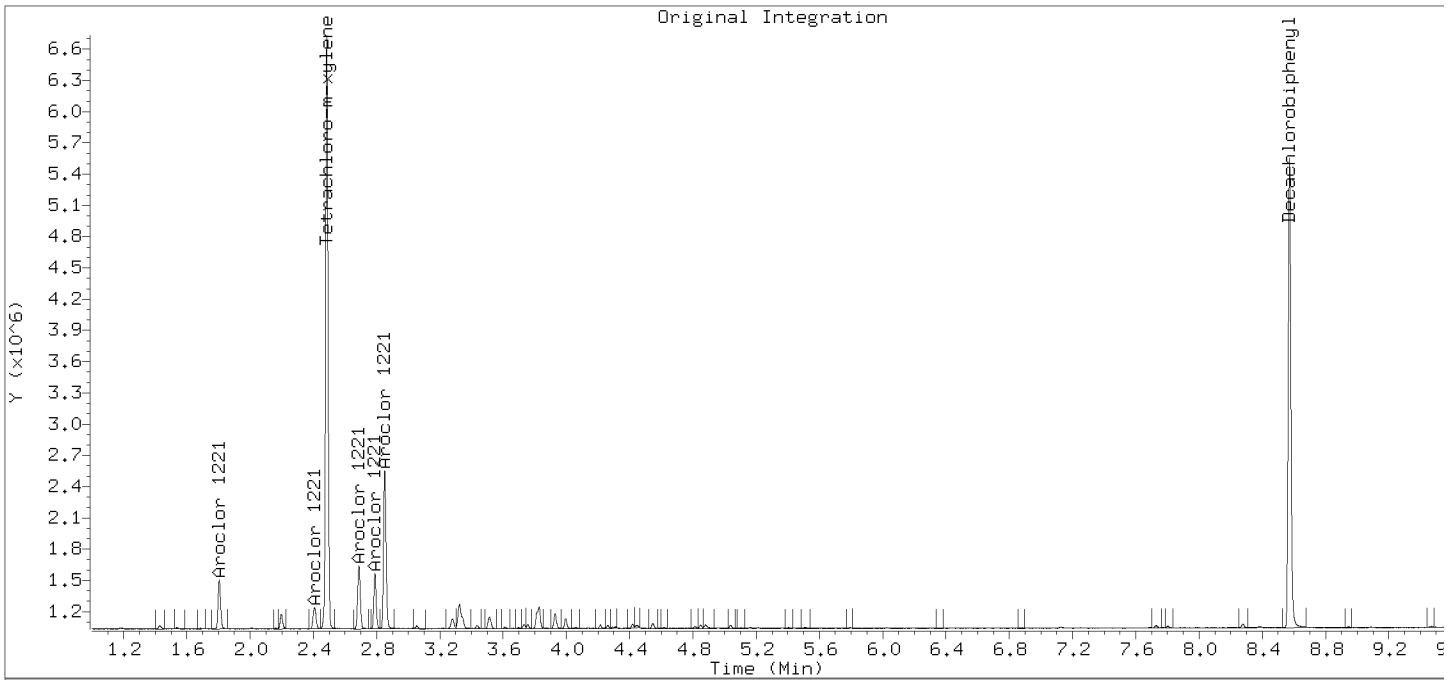
Operator: BLM

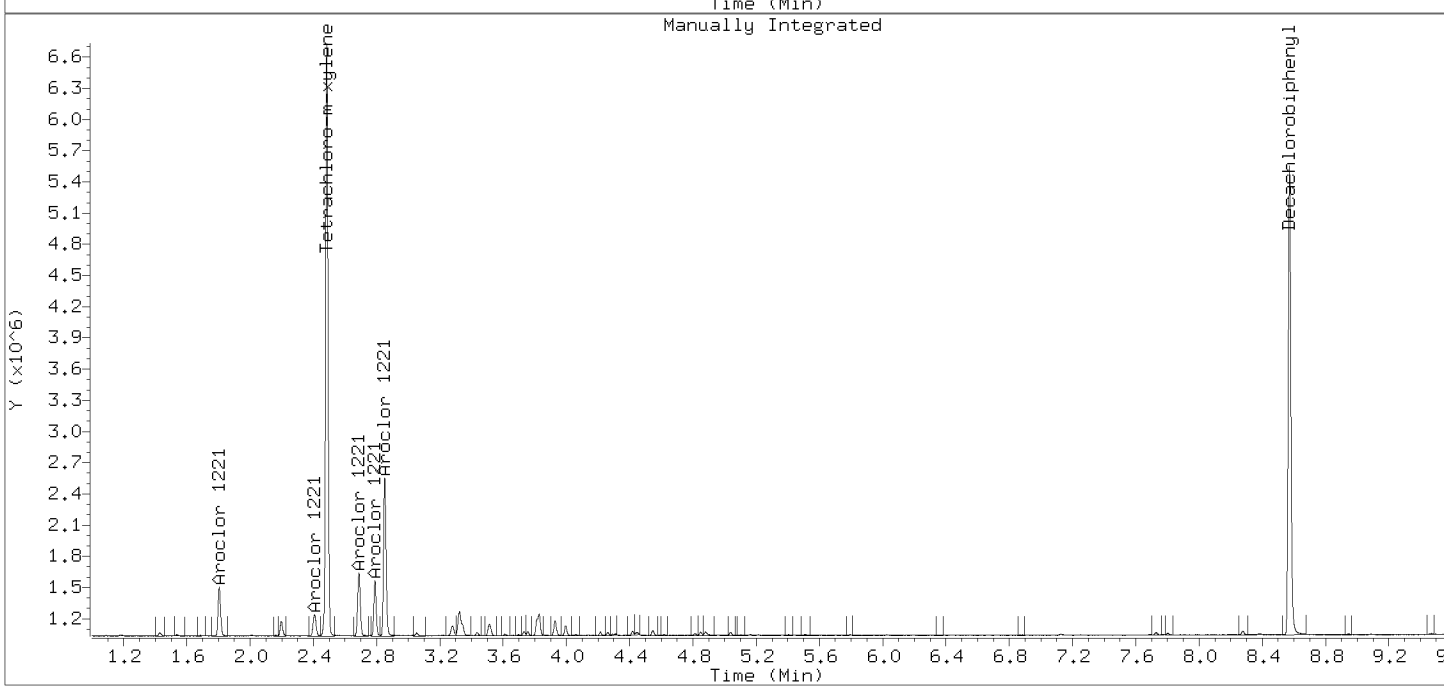
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 20:27

Client ID: 1242-ICV

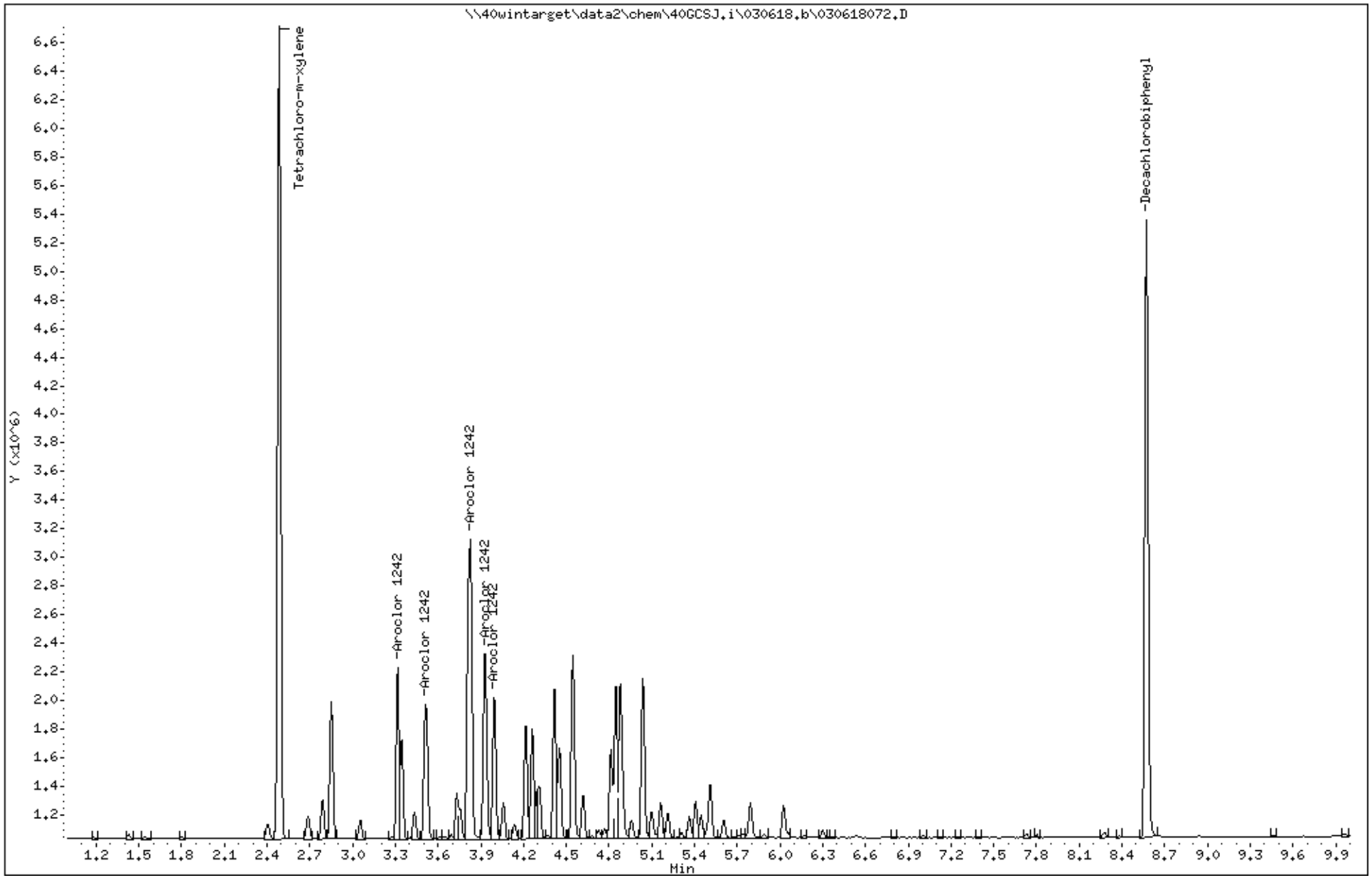
Instrument: 40GCSJ.i

Sample Info: 1242-ICV, 185562:1

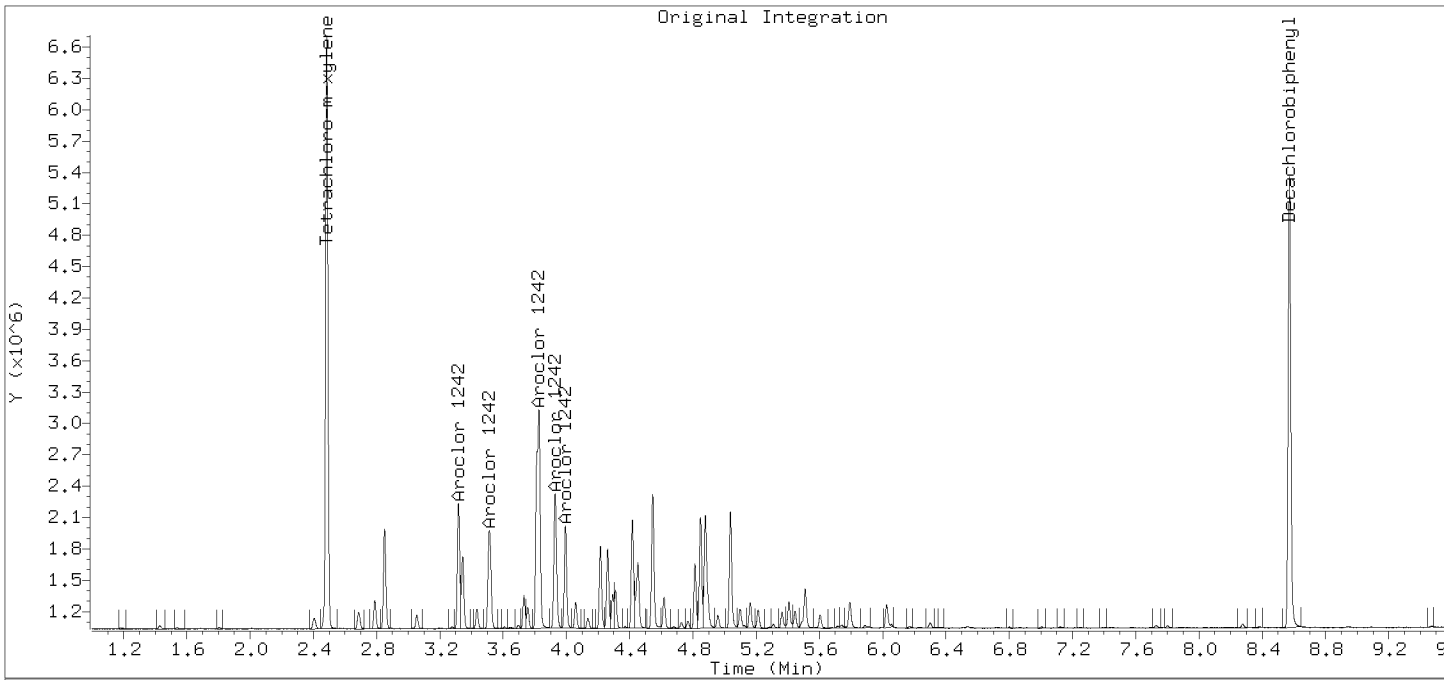
Operator: BLM

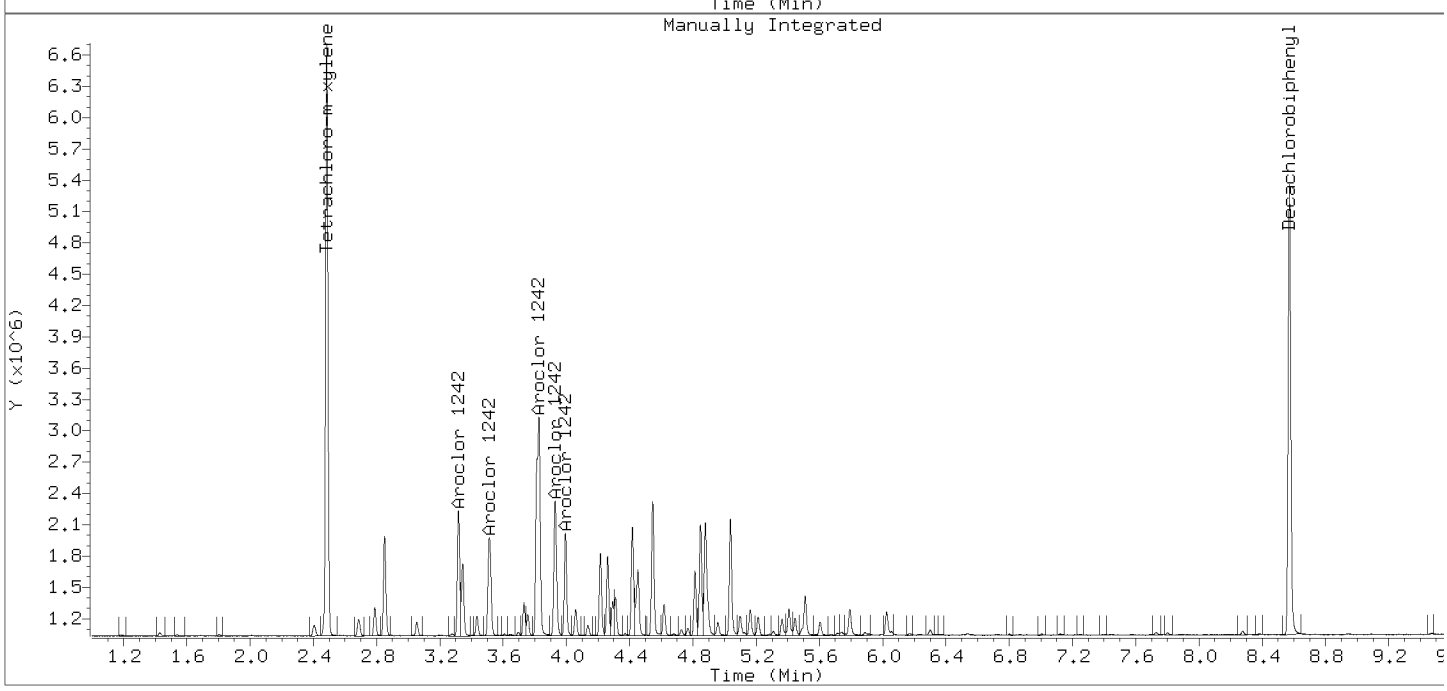
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

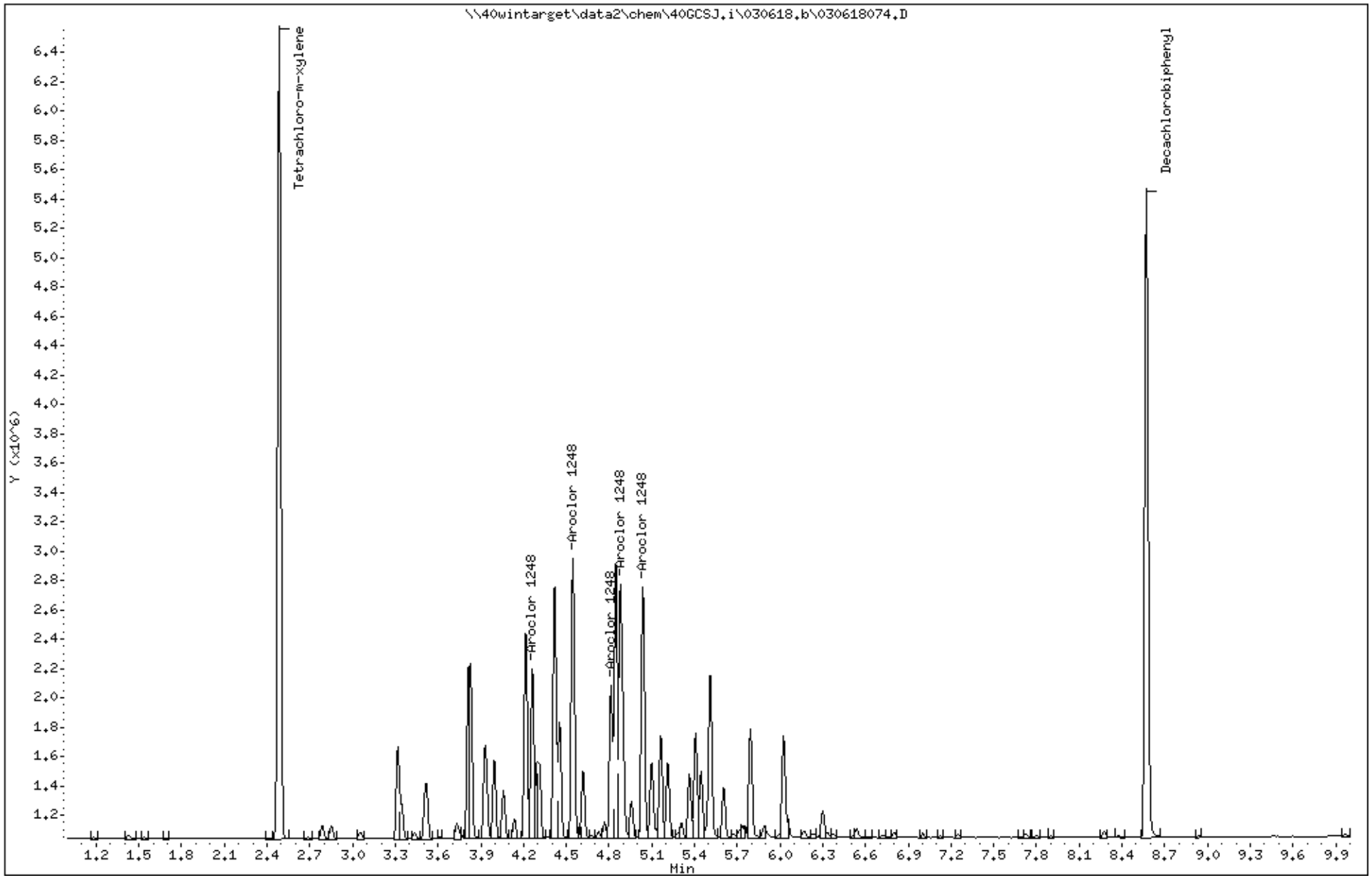
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

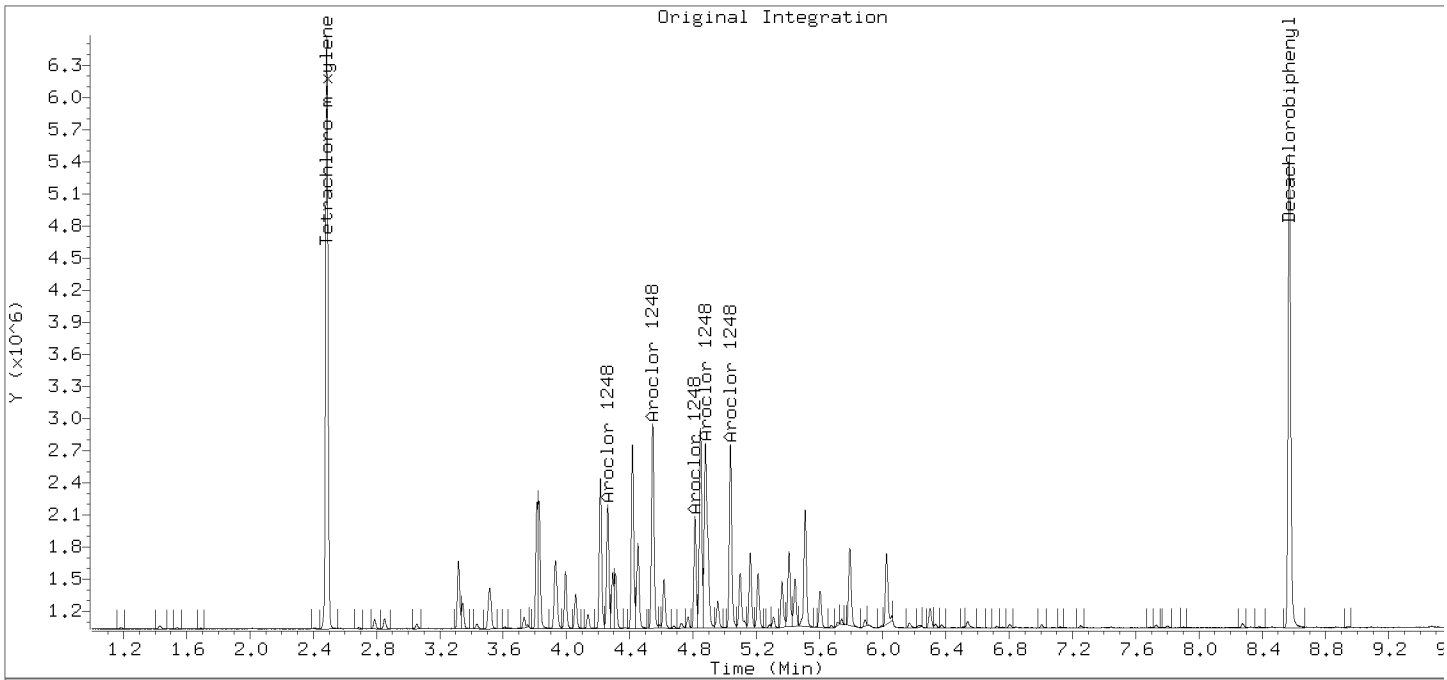
Operator: BLM

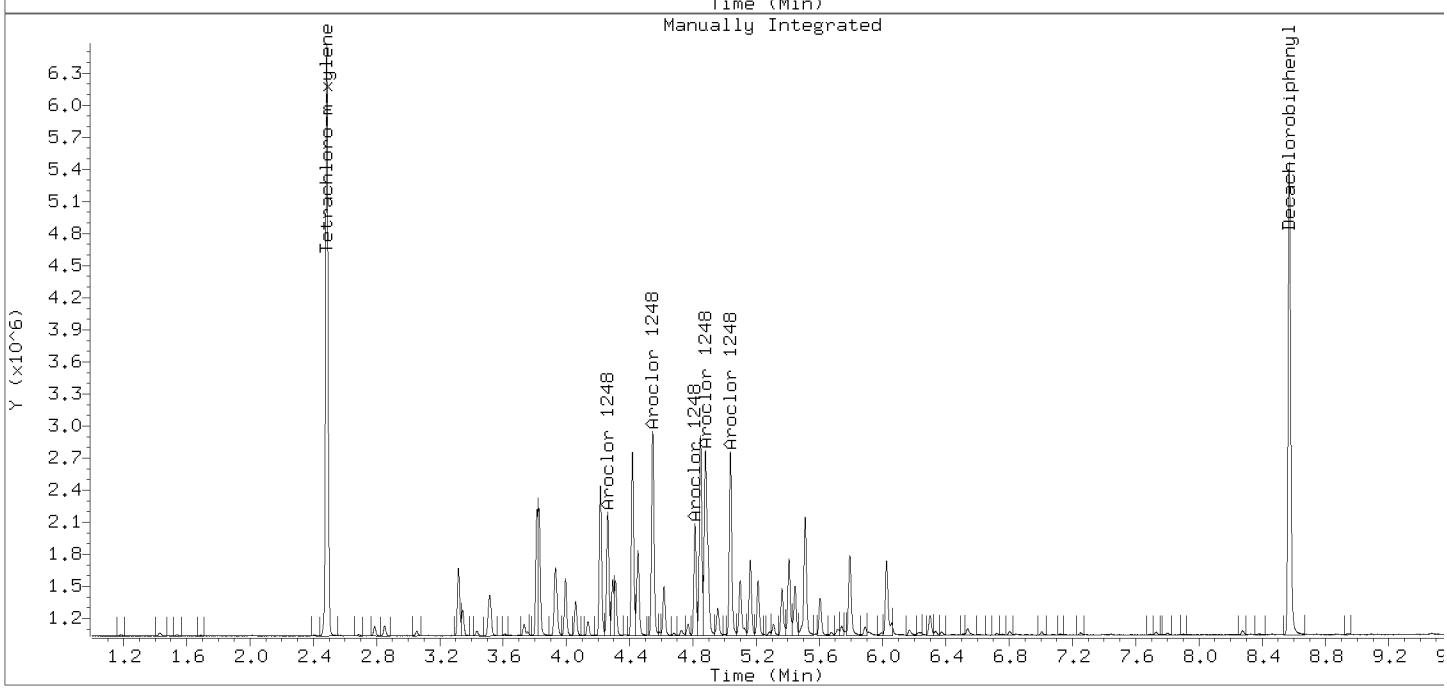
Column phase: ZB-1ms

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

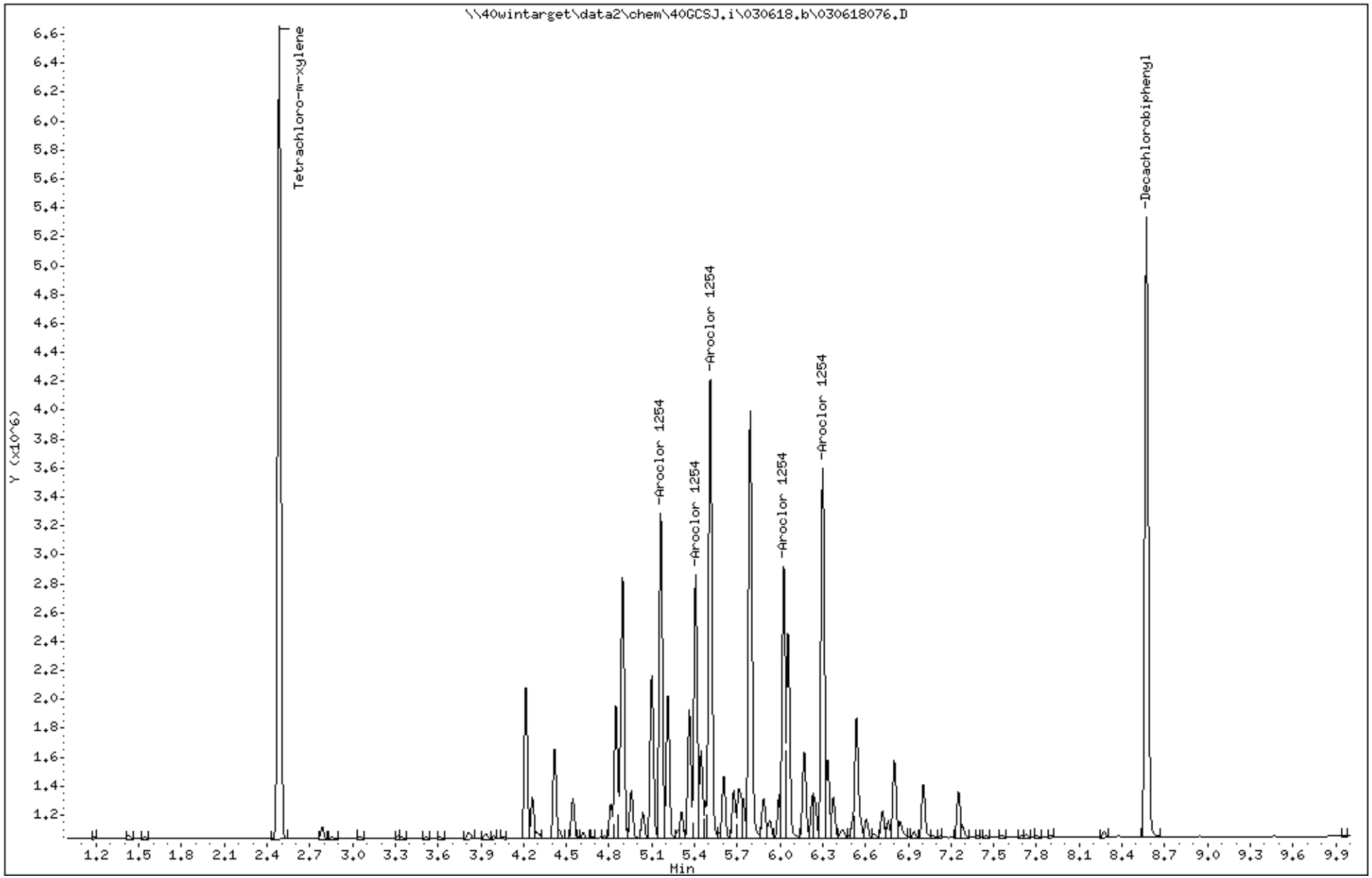
M - Compound response manually integrated.

Review Codes Legend

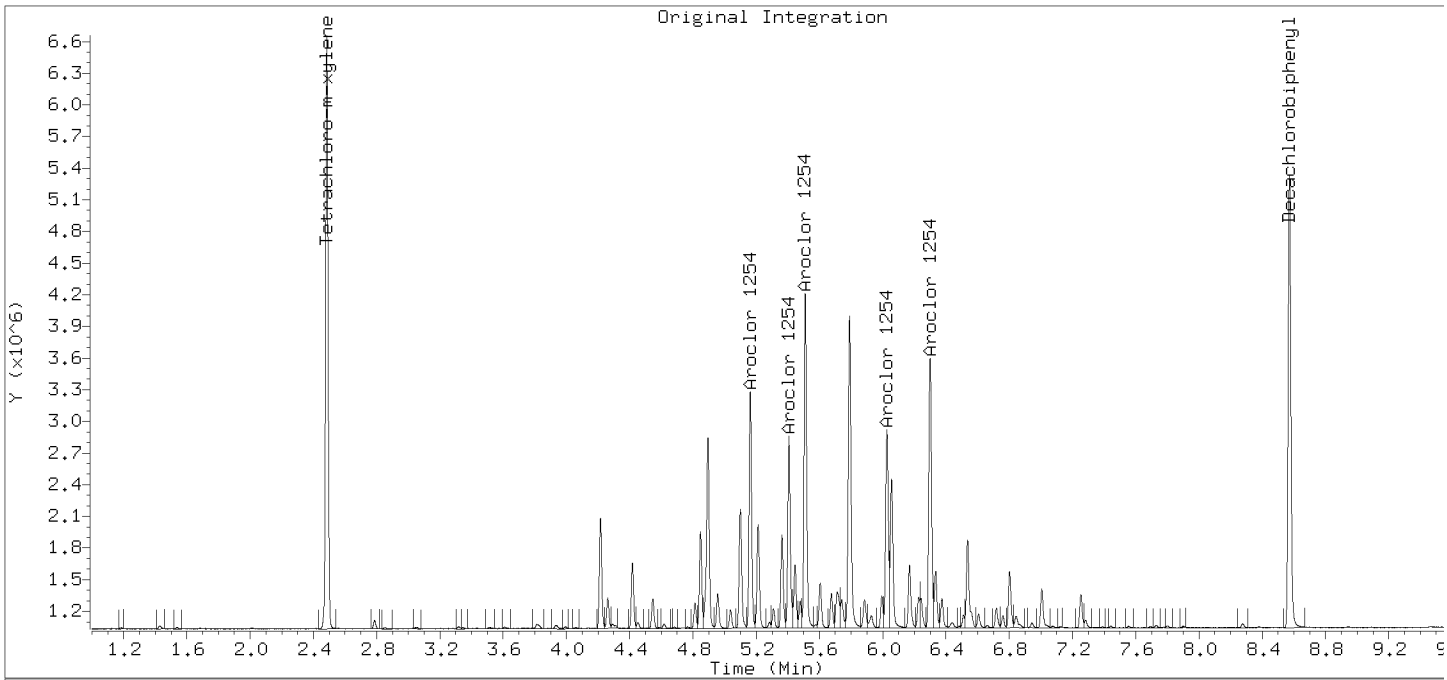
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

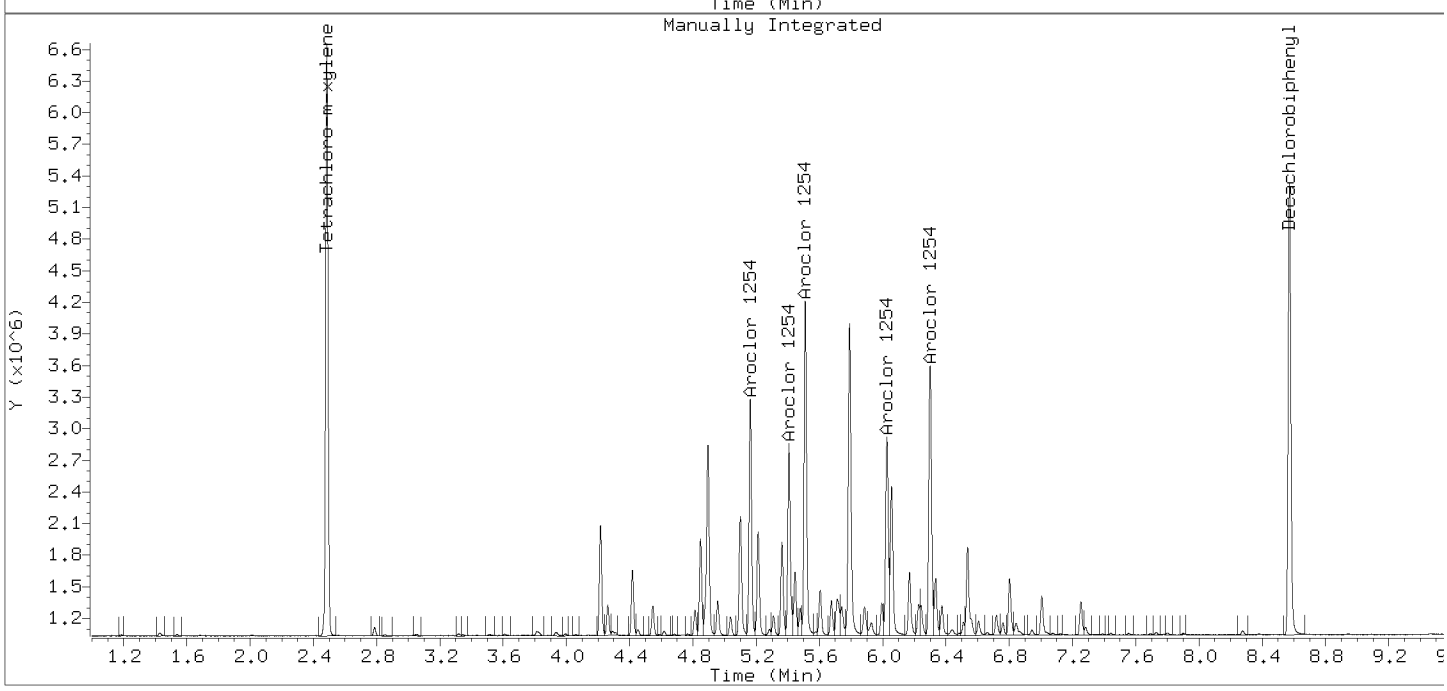
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Date : 06-MAR-2018 21:00
Client ID: 1254-ICV
Sample Info: 1254-ICV, 185564:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D

Date : 06-MAR-2018 21:16

Client ID: 1660-ICV

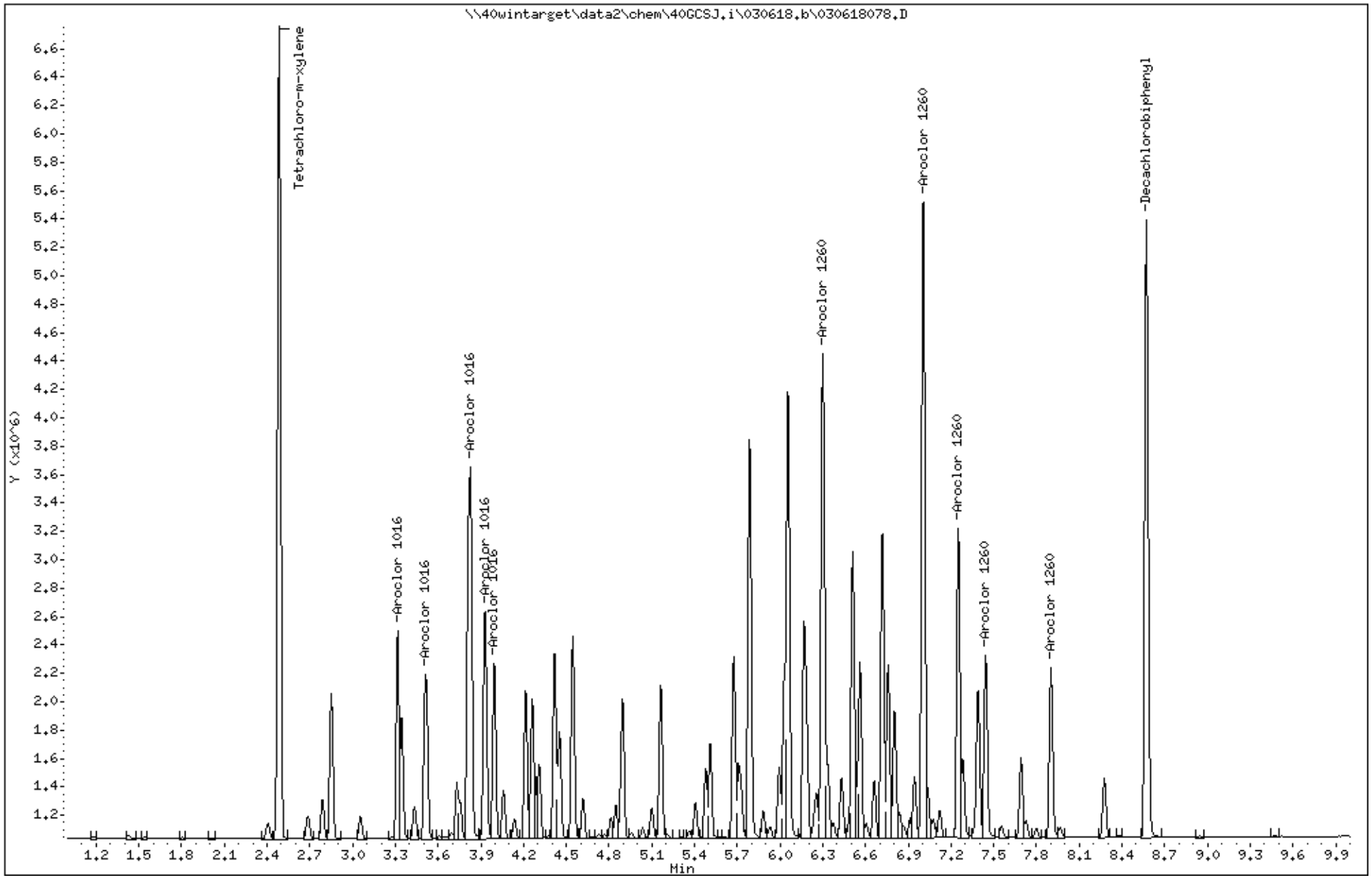
Instrument: 40GCSJ.i

Sample Info: 1660-ICV, 185565:1

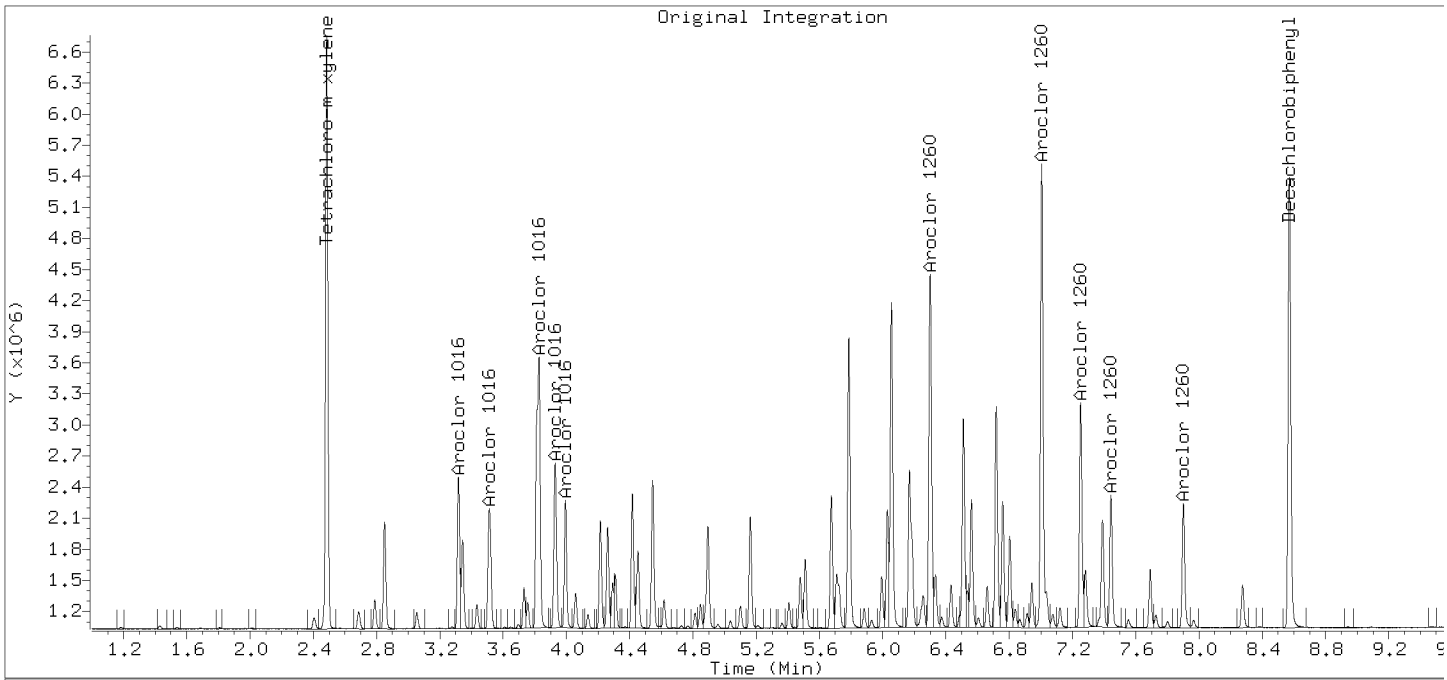
Operator: BLM

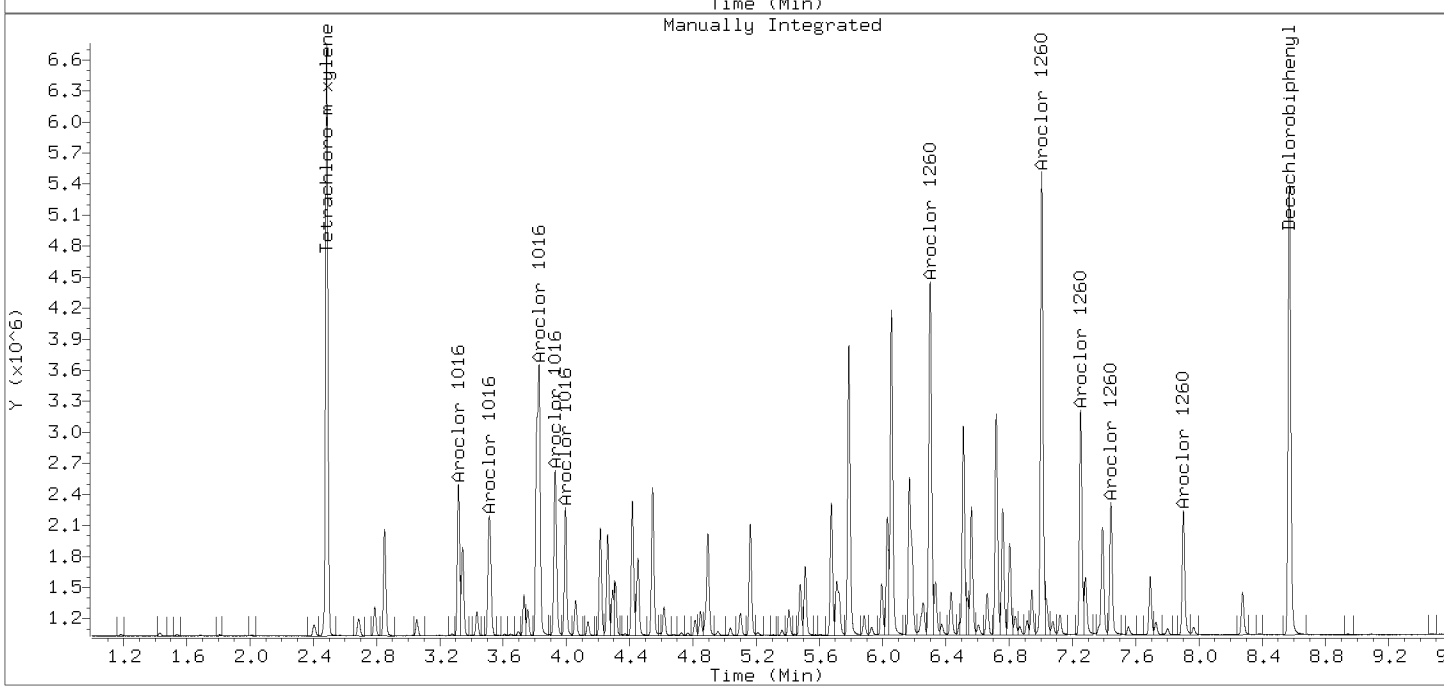
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618078.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 21:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Tetrachloro-m-xylene	5932090	5932090	
Decachlorobiphenyl	5248206	5248206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 13-MAR-2018 14:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	27729	26319	0.949	0.08		
1.428	33453	29727	0.889	0.09		
1.538	20488	14619	0.714	0.05		
1.801	11778	11760	0.998	0.03		
2.008	19921	15710	0.789	0.05		
2.405	108223	87198	0.806	0.31		
2.484	5552310	5342617	0.962	16.54	$ 2 Tetrachloro-m-xylene	
2.686	159923	131103	0.820	0.46		
2.788	237799	230665	0.970	0.69		
2.851	817185	785446	0.961	2.37		
3.025	11065	12008	1.085	0.03		
3.054	132892	121653	0.915	0.38		
3.276	18728	15746	0.841	0.05		
3.318	1166799	1106855	0.949	3.39	3 Aroclor 1242	BA
3.344	654278	620865	0.949	1.90		
3.434	184801	173408	0.938	0.53		
3.514	1151778	833455	0.724	3.35	3 Aroclor 1242	BA
3.610	15692	16614	1.059	0.04		
3.649	20511	14959	0.729	0.05		
3.698	31944	32138	1.006	0.09		
3.731	284983	280826	0.985	0.82		
3.755	180299	179544	0.996	0.52		
3.826	3105814	1818355	0.585	9.03	3 Aroclor 1242	BA
3.929	1334709	1124161	0.842	3.88	3 Aroclor 1242	BA
3.994	887509	843140	0.950	2.58	3 Aroclor 1242	BA
4.058	278578	253577	0.910	0.81		
4.137	109261	101496	0.929	0.31		
4.215	774002	740714	0.957	2.25		
4.261	744466	719464	0.966	2.16		
4.292	303869	318652	1.049	0.88		
4.309	381691	354979	0.930	1.11		
4.373	20006	17736	0.887	0.05		
4.418	1024314	997672	0.974	2.97		
4.452	739738	581880	0.787	2.15		
4.546	1301660	1210386	0.930	3.78		
4.589	16687	17909	1.073	0.04		
4.617	302738	279821	0.924	0.88		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	21300	17459	0.820	0.06	
4.727	63095	52304	0.829	0.18	
4.767	71898	67959	0.945	0.20	
4.812	572644	562711	0.983	1.66	
4.848	997508	968292	0.971	2.90	
4.878	1270628	964793	0.759	3.69	
4.958	151973	119495	0.786	0.44	
5.037	1026402	978327	0.953	2.98	
5.098	245668	194112	0.790	0.71	
5.163	278059	248516	0.894	0.80	
5.212	210820	189885	0.901	0.61	
5.284	19653	18711	0.952	0.05	
5.309	49055	39540	0.806	0.14	
5.363	170284	157223	0.923	0.49	
5.407	306212	258824	0.845	0.89	
5.445	187785	168850	0.899	0.54	
5.510	472598	368310	0.779	1.37	
5.604	140444	124847	0.889	0.40	
5.718	35346	26125	0.739	0.10	
5.741	38304	33772	0.882	0.11	
5.792	329358	269604	0.819	0.95	
5.889	51373	30362	0.591	0.14	
6.024	261152	224985	0.862	0.75	
6.056	52368	45070	0.861	0.15	
6.170	25509	17193	0.674	0.07	
6.298	90655	75572	0.834	0.26	
6.335	21148	16461	0.778	0.06	
6.375	12751	11969	0.939	0.03	
6.450	10705	7776	0.726	0.03	
6.537	35492	26941	0.759	0.10	
6.605	11787	7404	0.628	0.03	
6.801	20073	18126	0.903	0.05	
7.126	19729	13103	0.664	0.05	
7.687	9475	7483	0.790	0.02	
7.727	27675	22834	0.825	0.08	
7.802	30004	17582	0.586	0.08	
8.274	45852	37803	0.824	0.13	
8.380	23787	14608	0.614	0.06	
8.571	4646012	3951323	0.850	13.51	$ 12 Decachlorobiphenyl
8.943	19091	10692	0.560	0.05	
9.833	31547	19171	0.608	0.09	
9.851	23300	25620	1.100	0.06	
9.870	30135	28982	0.962	0.08	
9.884	53193	29344	0.552	0.15	
	34379470	29953240		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 13-MAR-2018 14:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5552309	0.05000	0.045			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1166799	0.50000	0.46	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1151777	0.50000	0.46	0.00- 20.00	98.71	BA
3.826	3.827	-0.001	3105814	0.50000	0.44	0.00- 20.00	266.18	BA
3.928	3.929	-0.001	1334709	0.50000	0.44	0.00- 20.00	114.39	BA
3.993	3.995	-0.002	887509	0.50000	0.43	0.00- 20.00	76.06	BA
Average of Peak Amounts =					0.44600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	4646012	0.05000	0.042			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

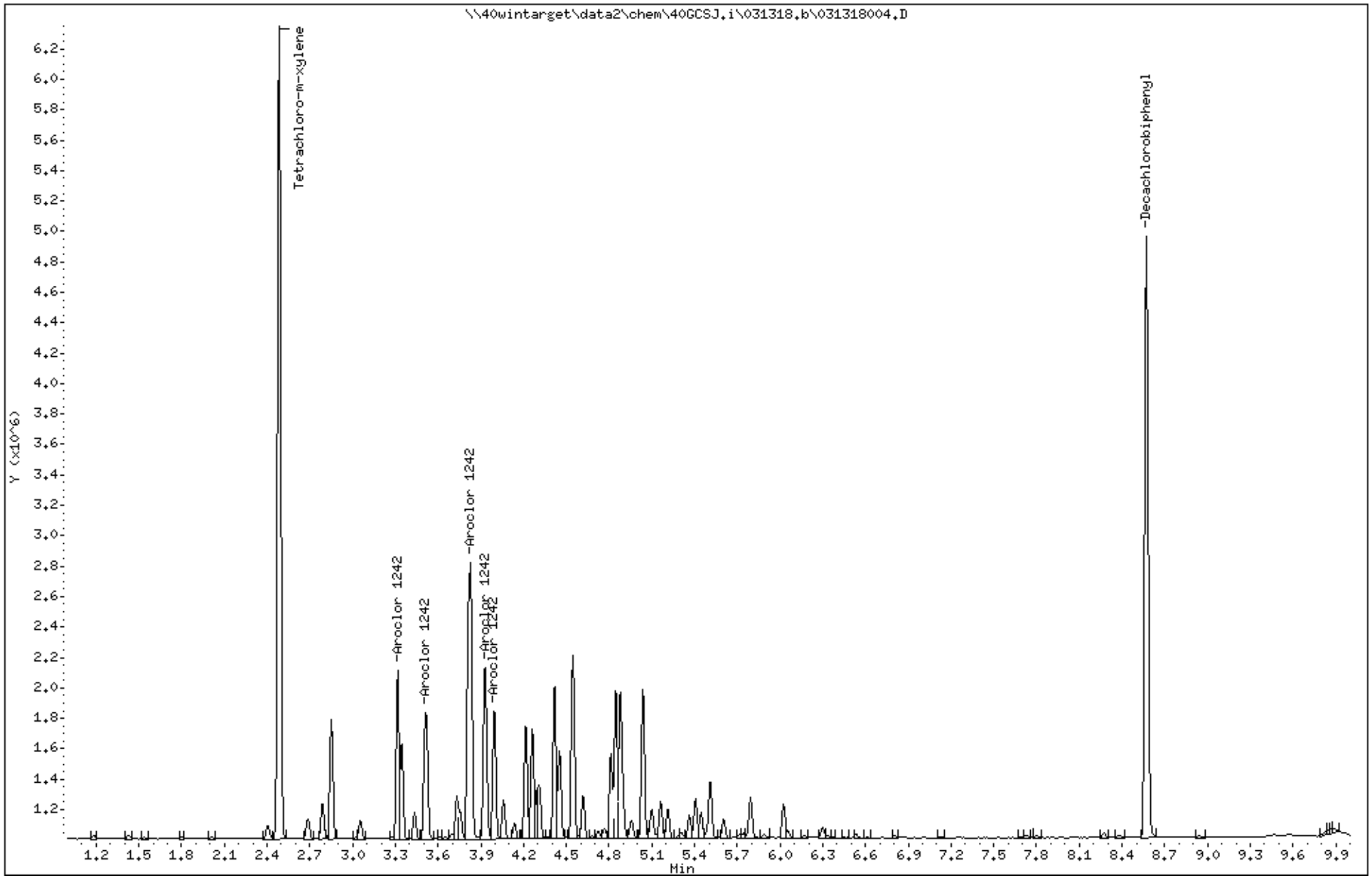
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318004.D
Date : 13-MAR-2018 14:18
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

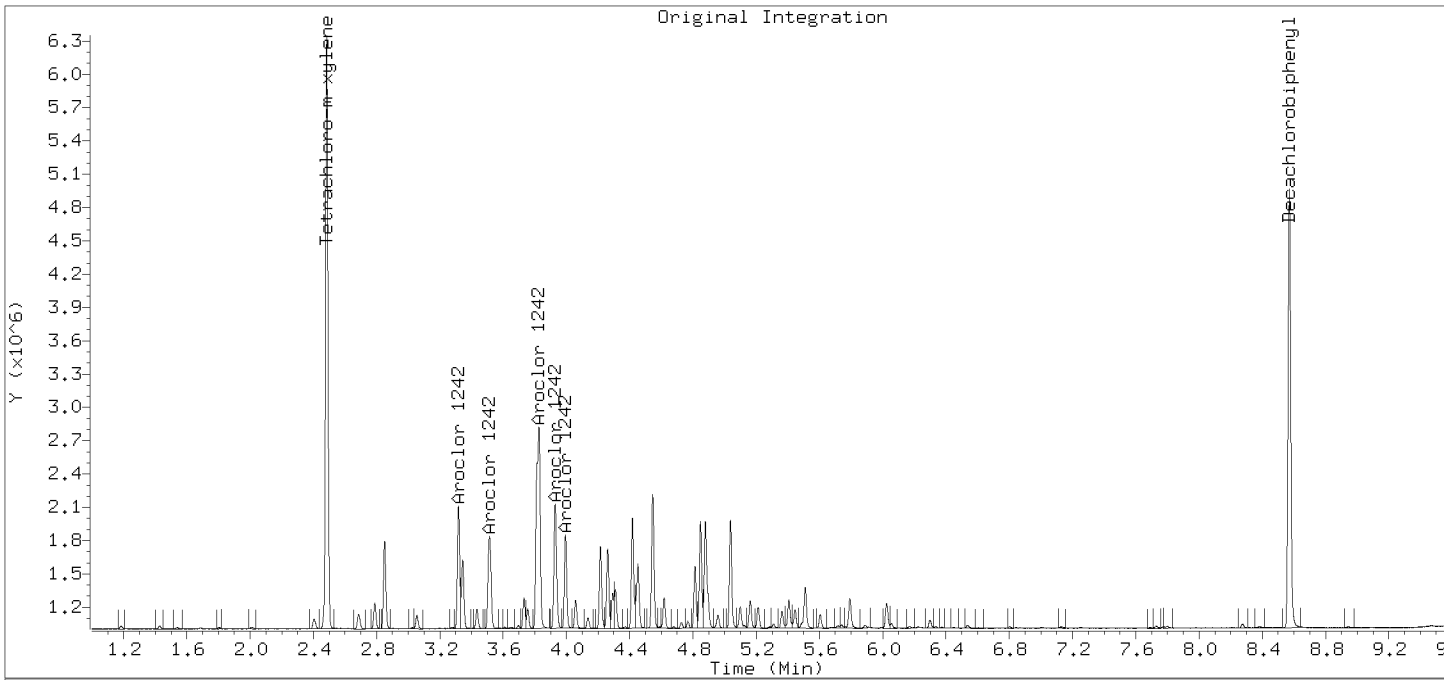
Operator: BLM

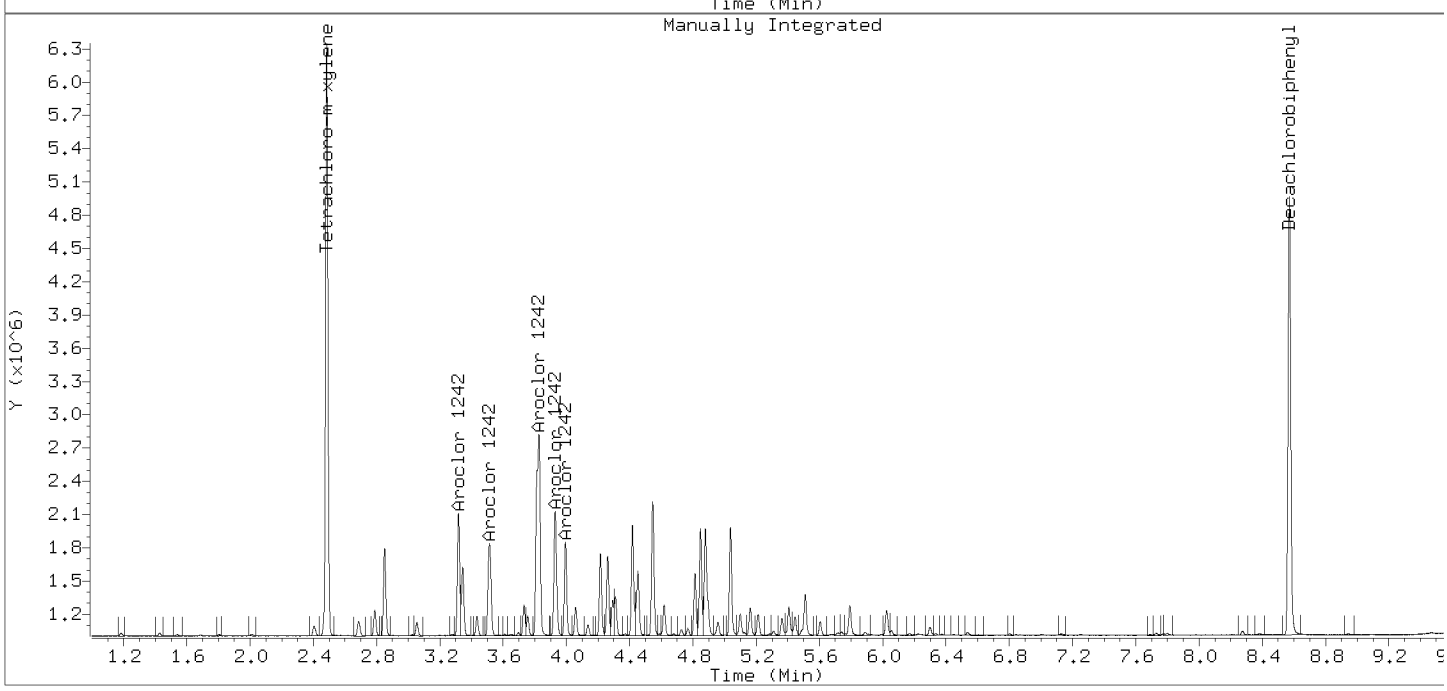
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318004.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 13-MAR-2018 14:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Tetrachloro-m-xylene	5552309	5552309	
Decachlorobiphenyl	4646012	4646012	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 13-MAR-2018 17:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	34547	26137	0.757	0.08		
1.430	38532	28426	0.738	0.09		
1.538	17792	14244	0.801	0.04		
1.687	26790	16710	0.624	0.06		
2.012	16736	14881	0.889	0.04		
2.402	25266	16834	0.666	0.06		
2.484	5717515	5404411	0.945	14.26	$ 2 Tetrachloro-m-xylene	
2.688	31911	24623	0.772	0.07		
2.787	108403	101621	0.937	0.26		
2.850	181579	166250	0.916	0.43		
3.029	11468	12149	1.059	0.02		
3.053	56715	51363	0.906	0.13		
3.317	666400	648700	0.973	1.61		
3.343	281689	262357	0.931	0.68		
3.434	63551	57232	0.901	0.15		
3.515	565654	405242	0.716	1.36		
3.610	19845	19312	0.973	0.04		
3.646	11099	6999	0.631	0.02		
3.731	124142	124676	1.004	0.30		
3.754	61967	53224	0.859	0.15		
3.814	994841	1154620	1.161	2.40		
3.825	1233767	1194510	0.968	2.98		
3.930	845064	650154	0.769	2.04		
3.994	559045	538233	0.963	1.35		
4.057	330303	301258	0.912	0.79		
4.136	140355	120359	0.858	0.33		
4.215	1409463	1316932	0.934	3.41		
4.261	1114862	1076234	0.965	2.69	6 Aroclor 1248	BA
4.292	463155	471683	1.018	1.12		
4.309	485188	464077	0.956	1.17		
4.416	1717291	1589511	0.926	4.15		
4.452	836688	731802	0.875	2.02		
4.546	1950169	1837348	0.942	4.72	6 Aroclor 1248	BA
4.591	28359	30347	1.070	0.06		
4.617	447635	419819	0.938	1.08		
4.678	26595	19613	0.737	0.06		
4.728	60694	48703	0.802	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	104450	99117	0.949	0.25	
4.812	961742	956981	0.995	2.32	6 Aroclor 1248
4.847	1854263	1753514	0.946	4.48	
4.878	2375611	1575651	0.663	5.75	6 Aroclor 1248
4.957	277211	232416	0.838	0.67	
5.036	1686235	1578524	0.936	4.08	6 Aroclor 1248
5.098	601218	504142	0.839	1.45	
5.162	718836	651581	0.906	1.74	
5.212	514473	466688	0.907	1.24	
5.283	38226	35590	0.931	0.09	
5.308	114377	97670	0.854	0.27	
5.362	454967	386178	0.849	1.10	
5.406	755181	677323	0.897	1.82	
5.445	463914	420122	0.906	1.12	
5.509	1264136	1067561	0.844	3.06	
5.604	358061	318483	0.889	0.86	
5.674	40456	36539	0.903	0.09	
5.715	81181	61479	0.757	0.19	
5.741	96448	82759	0.858	0.23	
5.763	28052	36234	1.292	0.06	
5.791	850989	716872	0.842	2.06	
5.886	86937	76656	0.882	0.21	
5.910	56059	30482	0.544	0.13	
5.995	26545	26566	1.001	0.06	
6.023	715923	664644	0.928	1.73	
6.055	148446	120732	0.813	0.35	
6.167	76183	49935	0.655	0.18	
6.227	49695	27459	0.553	0.12	
6.298	222047	190922	0.860	0.53	
6.333	42944	36638	0.853	0.10	
6.373	36944	28876	0.782	0.08	
6.508	37862	37090	0.980	0.09	
6.535	87189	61825	0.709	0.21	
6.603	15343	11595	0.756	0.03	
6.718	37237	33179	0.891	0.09	
6.756	19515	17280	0.885	0.04	
6.800	39294	34828	0.886	0.09	
6.841	12660	12553	0.992	0.03	
7.004	64752	61162	0.945	0.15	
7.126	17005	12165	0.715	0.04	
7.252	28814	24913	0.865	0.06	
7.390	29822	24928	0.836	0.07	
7.442	31654	27393	0.865	0.07	
7.694	15473	13759	0.889	0.03	
7.729	24068	21868	0.909	0.05	
7.898	26492	24740	0.934	0.06	
8.273	51775	43579	0.842	0.12	
8.380	19276	13488	0.700	0.04	
8.570	4913033	4227369	0.860	11.89	$ 12 Decachlorobiphenyl
8.941	17085	13032	0.763	0.04	
9.463	11934	9303	0.780	0.02	
	41307112	37154977		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 13-MAR-2018 17:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5717514	0.05000	0.046			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1114862	0.50000	0.48	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1950169	0.50000	0.47	0.00- 20.00	174.92	BA
4.812	4.812	0.000	961742	0.50000	0.47	0.00- 20.00	86.27	BA
4.877	4.879	-0.002	2375610	0.50000	0.47	0.00- 20.00	213.09	BA
5.036	5.038	-0.002	1686234	0.50000	0.47	0.00- 20.00	151.25	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4913033	0.05000	0.045			

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\031318.b\031318016.D

Date : 13-MAR-2018 17:28

Client ID: 1248-CCV

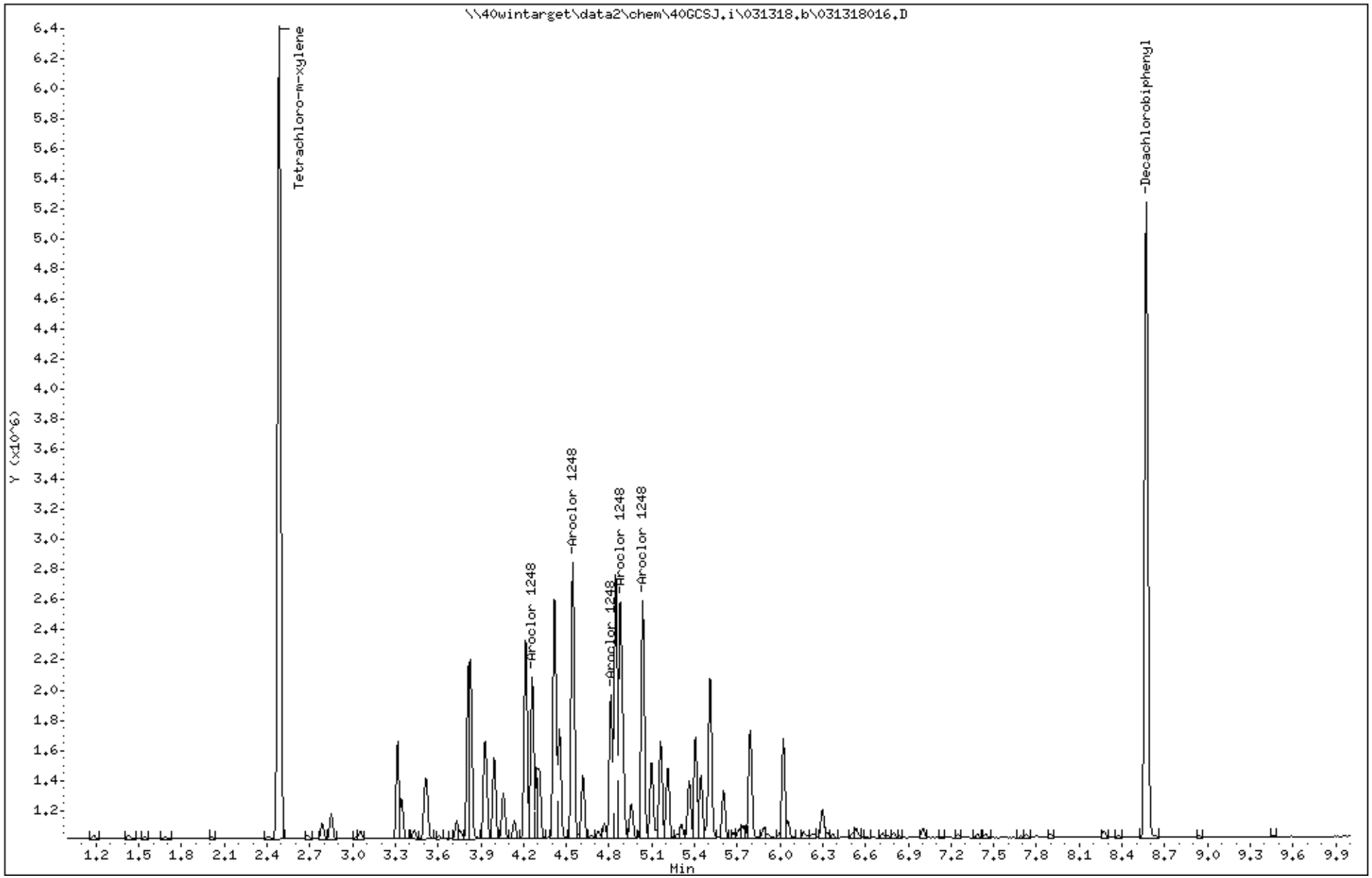
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

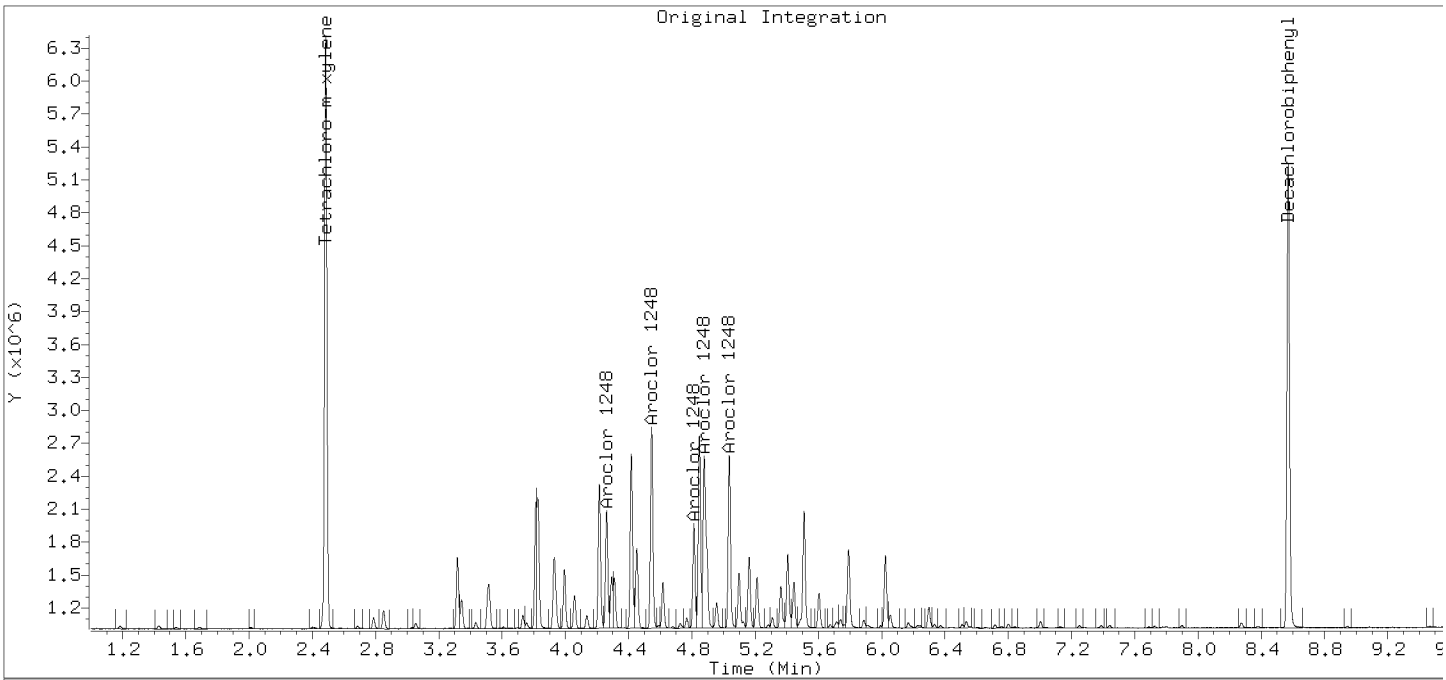
Operator: BLM

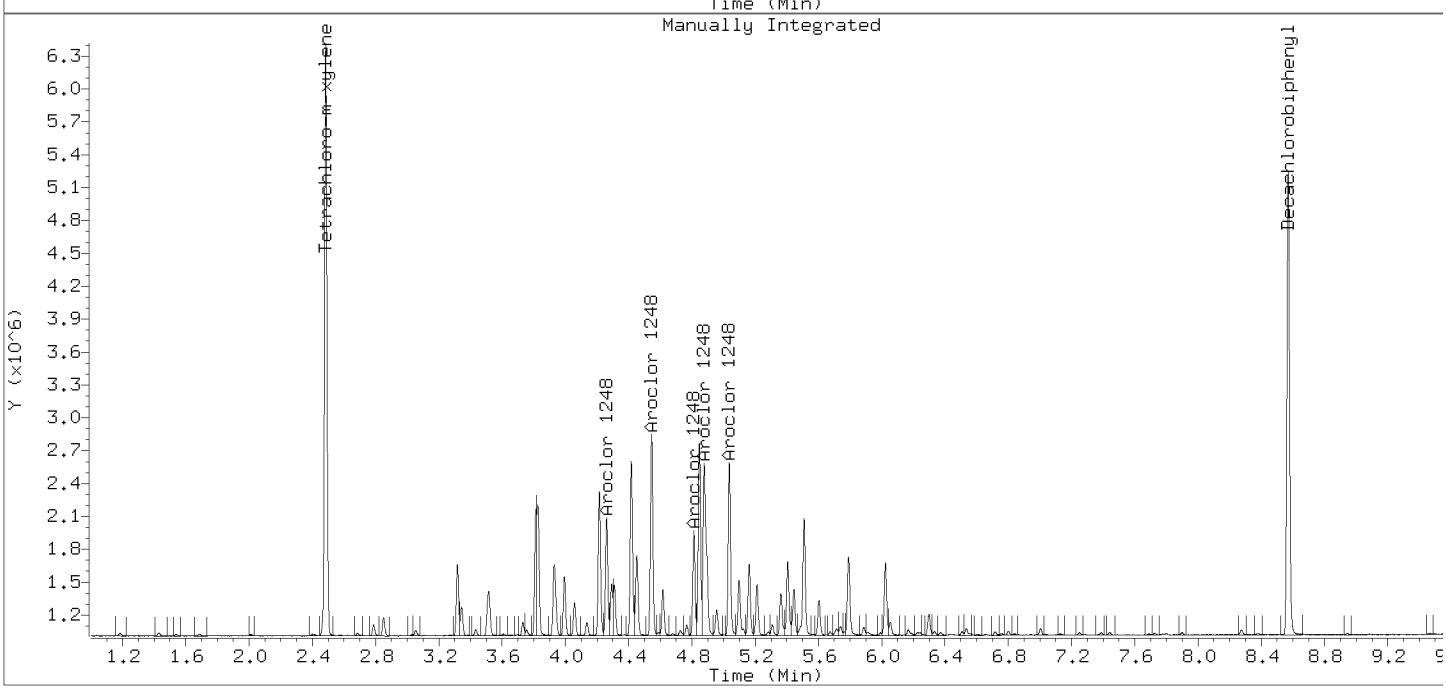
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318016.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 13-MAR-2018 17:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Tetrachloro-m-xylene	5717514	5717514	
Decachlorobiphenyl	4913033	4913033	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318028.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 13-MAR-2018 20:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	45544	35904	0.788	0.09		
1.429	53562	33634	0.628	0.10		
1.541	13088	11629	0.889	0.02		
1.686	14814	12206	0.824	0.02		
2.009	29378	22378	0.762	0.05		
2.484	5841275	5573948	0.954	11.98	$ 2 Tetrachloro-m-xylene	
2.786	84925	82405	0.970	0.16		
2.849	18464	16217	0.878	0.03		
3.028	19498	15291	0.784	0.03		
3.052	20338	18184	0.894	0.04		
3.316	30503	28572	0.937	0.06		
3.342	17498	16500	0.943	0.03		
3.509	31286	21385	0.684	0.06		
3.608	18237	17531	0.961	0.03		
3.774	14782	13524	0.915	0.02		
3.813	99854	59252	0.593	0.19		
3.933	61584	40489	0.657	0.12		
3.994	40064	33394	0.834	0.07		
4.053	32691	21795	0.667	0.06		
4.213	1169475	1110750	0.950	2.31		
4.260	287172	299919	1.044	0.56		
4.291	22688	30721	1.354	0.04		
4.417	726580	696156	0.958	1.43		
4.452	73246	68599	0.937	0.14		
4.545	325990	316980	0.972	0.64		
4.588	15241	14541	0.954	0.03		
4.615	57856	54481	0.942	0.11		
4.684	15742	16683	1.060	0.03		
4.735	11469	11023	0.961	0.02		
4.767	22824	19691	0.863	0.04		
4.812	279973	273350	0.976	0.55		
4.846	1067493	1037007	0.971	2.11		
4.893	2327397	1840856	0.791	4.60		
4.956	368182	338907	0.920	0.72		
5.035	235304	221396	0.941	0.46		
5.099	1356449	1209683	0.892	2.68		
5.162	2497085	2286582	0.916	4.93	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.211	1129357	1042618	0.923	2.23	
5.284	57871	56452	0.975	0.11	
5.308	205837	194085	0.943	0.40	
5.363	986425	918109	0.931	1.95	
5.406	2070640	1850832	0.894	4.09	7 Aroclor 1254
5.444	691207	638992	0.924	1.36	
5.476	254551	243263	0.956	0.50	
5.509	3693689	3361325	0.910	7.30	7 Aroclor 1254
5.577	26230	26818	1.022	0.05	
5.604	512102	476351	0.930	1.01	
5.674	331903	312845	0.943	0.65	
5.710	529424	343955	0.650	1.04	
5.740	301866	261896	0.868	0.59	
5.789	3755645	3035596	0.808	7.42	
5.882	321042	255619	0.796	0.63	
5.926	164281	106996	0.651	0.32	
5.993	302458	294987	0.975	0.59	
6.024	2399044	1977661	0.824	4.74	7 Aroclor 1254
6.054	1635194	1439025	0.880	3.23	
6.168	657397	585908	0.891	1.29	
6.225	269745	284995	1.057	0.53	
6.240	306104	266878	0.872	0.60	
6.298	3132352	2772204	0.885	6.19	7 Aroclor 1254
6.332	533782	487799	0.914	1.05	
6.372	298490	261394	0.876	0.59	
6.439	83844	50154	0.598	0.16	
6.508	113308	119388	1.054	0.22	
6.536	1043237	853879	0.818	2.06	
6.603	146701	129390	0.882	0.29	
6.660	24690	21374	0.866	0.04	
6.716	204900	178193	0.870	0.40	
6.757	120435	109034	0.905	0.23	
6.800	589617	543070	0.921	1.16	
6.842	152701	109845	0.719	0.30	
6.940	52219	47294	0.906	0.10	
7.003	390298	366046	0.938	0.77	
7.036	28763	24492	0.851	0.05	
7.073	15923	16197	1.017	0.03	
7.250	337762	306244	0.907	0.66	
7.281	66674	62153	0.932	0.13	
7.387	14689	14280	0.972	0.02	
7.439	25440	20128	0.791	0.05	
7.550	22764	17986	0.790	0.04	
7.690	15549	14178	0.912	0.03	
7.727	23851	20281	0.850	0.04	
7.899	23891	18357	0.768	0.04	
8.274	49021	40751	0.831	0.09	
8.382	18387	14846	0.807	0.03	
8.571	5044282	4325877	0.858	9.97	$ 12 Decachlorobiphenyl
8.938	14118	11854	0.840	0.02	
9.084	9434	7250	0.769	0.01	
9.465	22940	11683	0.509	0.04	
	50569630	44872390		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318028.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 13-MAR-2018 20:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	5841274	0.05000	0.047			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2497085	0.50000	0.48	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2070639	0.50000	0.48	0.00- 20.00	82.92	BA
5.508	5.510	-0.002	3693689	0.50000	0.48	0.00- 20.00	147.92	BA
6.024	6.027	-0.003	2399043	0.50000	0.49	0.00- 20.00	96.07	BA
6.298	6.299	-0.001	3132352	0.50000	0.48	0.00- 20.00	125.44	BA
Average of Peak Amounts =					0.48200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5044282	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.

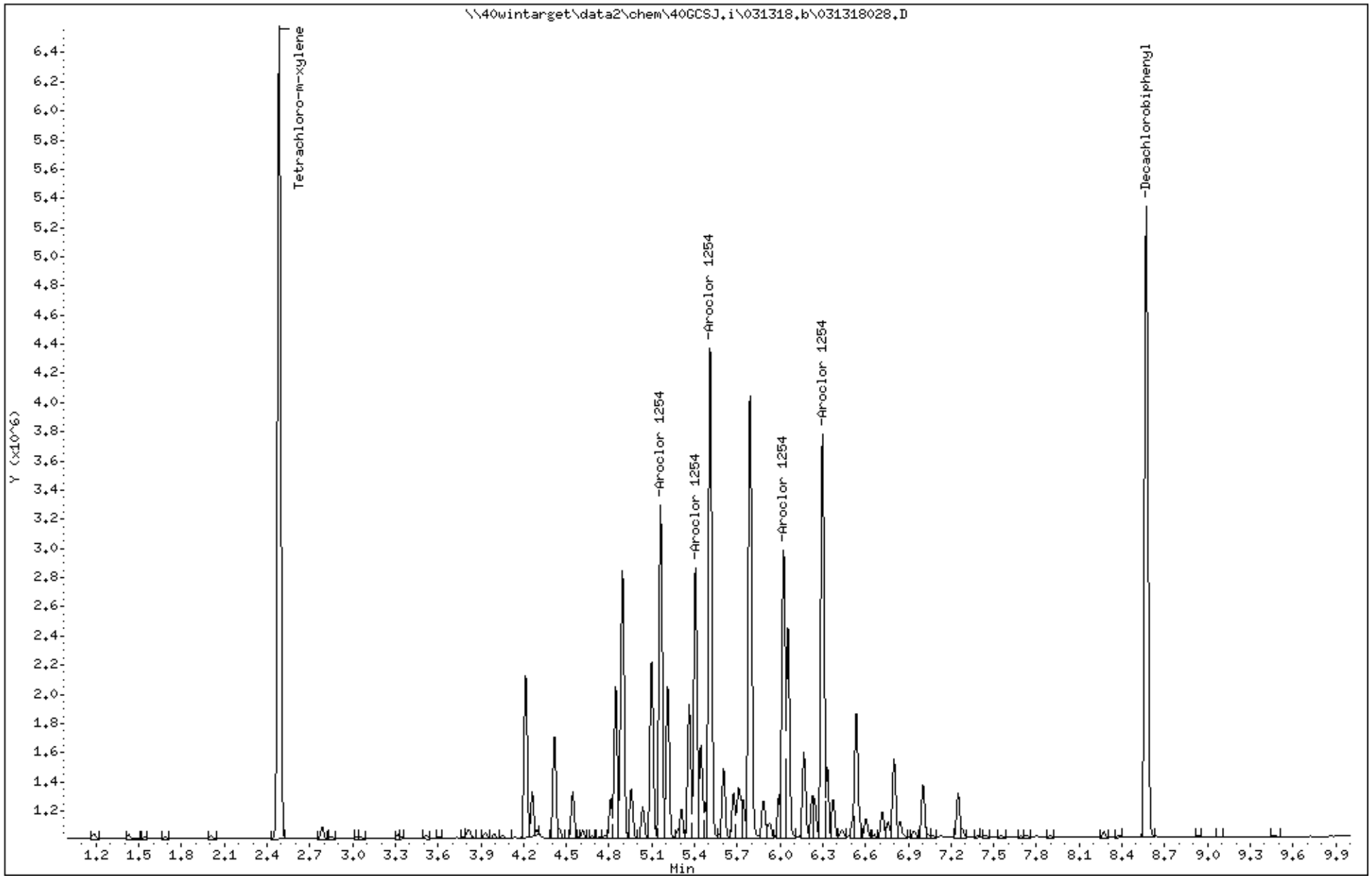
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318028.D
Date : 13-MAR-2018 20:38
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSJ.i

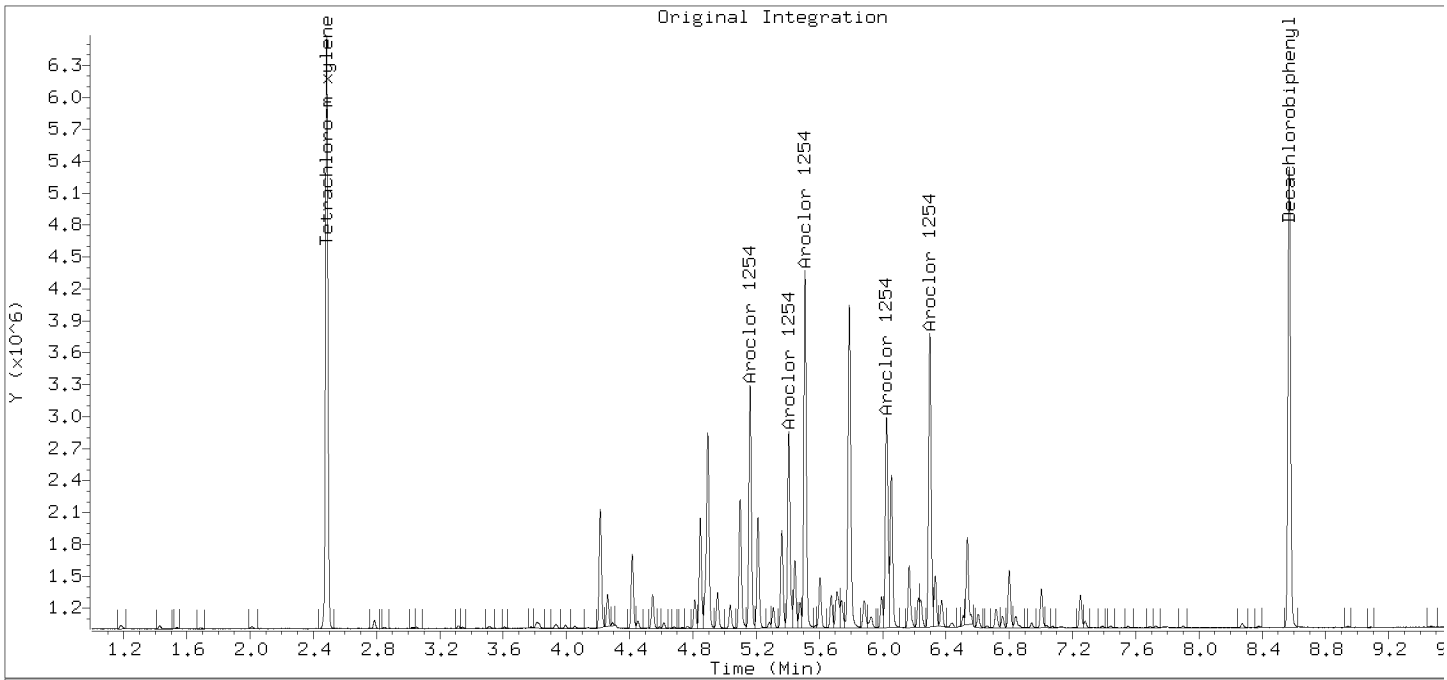
Operator: BLM

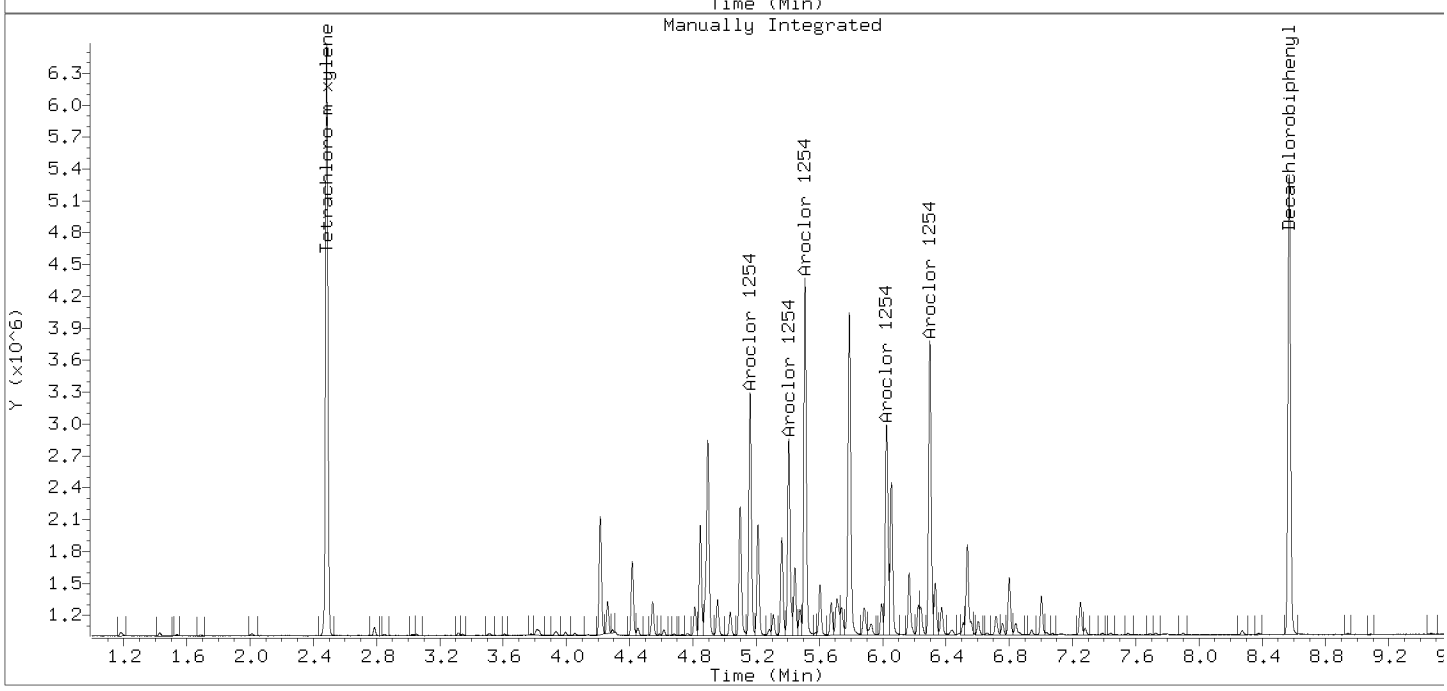
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318028.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 13-MAR-2018 20:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2493485	2497085	BA
Aroclor 1254	2493485	2497085	BA
Aroclor 1254	2493485	2497085	BA
Aroclor 1254	2493485	2497085	BA
Aroclor 1254	2493485	2497085	BA
Tetrachloro-m-xylene	5841274	5841274	
Decachlorobiphenyl	5044282	5044282	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318033.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-MAR-2018 21:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	44131	34882	0.790	0.05		
1.429	45349	33921	0.748	0.05		
1.538	17814	15722	0.883	0.02		
1.685	17628	14645	0.831	0.02		
1.802	18063	13789	0.763	0.02		
2.011	30400	19381	0.638	0.03		
2.404	141476	108016	0.763	0.16		
2.484	6123159	5982052	0.977	7.77	$ 2 Tetrachloro-m-xylene	
2.687	208144	170244	0.818	0.24		
2.788	303105	293721	0.969	0.36		
2.850	1113286	1051310	0.944	1.32		
3.027	9773	13292	1.360	0.01		
3.054	173327	154434	0.891	0.20		
3.277	26092	20257	0.776	0.03		
3.317	1544029	1437681	0.931	1.83	5 Aroclor 1016	BA
3.343	863975	833502	0.965	1.02		
3.434	242722	221288	0.912	0.28		
3.513	1533219	1117705	0.729	1.82	5 Aroclor 1016	BA
3.610	21498	18344	0.853	0.02		
3.645	23259	18081	0.777	0.02		
3.695	41870	41919	1.001	0.04		
3.730	388644	392344	1.010	0.46		
3.755	258384	245414	0.950	0.30		
3.826	4366664	2619352	0.600	5.19	5 Aroclor 1016	BA
3.929	1867798	1560715	0.836	2.22	5 Aroclor 1016	BA
3.994	1256613	1219177	0.970	1.49	5 Aroclor 1016	BA
4.058	358276	331593	0.926	0.42		
4.136	140230	128173	0.914	0.16		
4.215	1103943	1029199	0.932	1.31		
4.261	982798	944179	0.961	1.16		
4.292	410341	427093	1.041	0.48		
4.308	513417	484565	0.944	0.61		
4.370	30791	23641	0.768	0.03		
4.417	1369470	1278907	0.934	1.62		
4.452	1003591	784630	0.782	1.19		
4.545	1730848	1594875	0.921	2.05		
4.589	21247	23298	1.097	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	389316	356428	0.916	0.46	
4.676	29254	22612	0.773	0.03	
4.725	62693	52946	0.845	0.07	
4.768	57508	52701	0.916	0.06	
4.812	318196	306180	0.962	0.37	
4.847	492801	478783	0.972	0.58	
4.895	1586336	1159967	0.731	1.88	
4.956	101108	83077	0.822	0.12	
5.036	91230	82853	0.908	0.10	
5.100	330187	284900	0.863	0.39	
5.162	1301337	1222312	0.939	1.54	
5.212	55046	46981	0.853	0.06	
5.308	16494	13630	0.826	0.01	
5.363	88828	81646	0.919	0.10	
5.406	365100	331363	0.908	0.43	
5.477	517752	492863	0.952	0.61	
5.509	894962	833399	0.931	1.06	
5.602	18354	14539	0.792	0.02	
5.674	1327043	1258403	0.948	1.57	
5.708	942271	527029	0.559	1.12	
5.785	3269561	2899645	0.887	3.88	
5.881	220616	199432	0.904	0.26	
5.930	102835	84555	0.822	0.12	
5.992	552470	526980	0.954	0.65	
6.028	1255607	1207086	0.961	1.49	
6.055	3581994	3104440	0.867	4.25	
6.168	2329023	1490987	0.640	2.76	
6.255	521204	307765	0.590	0.61	
6.298	4387575	3675048	0.838	5.21	8 Aroclor 1260
6.333	602096	547128	0.909	0.71	
6.373	148742	124057	0.834	0.17	
6.432	448020	389114	0.869	0.53	
6.485	89586	119055	1.329	0.10	
6.509	2176303	1871106	0.860	2.58	
6.533	392447	431859	1.100	0.46	
6.559	1318066	1182944	0.897	1.56	
6.605	138616	122701	0.885	0.16	
6.659	411283	382111	0.929	0.48	
6.718	2298993	2069217	0.900	2.73	
6.758	1284530	1171359	0.912	1.52	
6.802	1060622	956658	0.902	1.26	
6.836	188615	163812	0.868	0.22	
6.865	92450	82053	0.888	0.10	
6.912	144356	136078	0.943	0.17	
6.942	452076	414382	0.917	0.53	
7.004	4938609	4447974	0.901	5.87	8 Aroclor 1260
7.034	324251	298661	0.921	0.38	
7.074	151660	120677	0.796	0.18	
7.119	215905	181746	0.842	0.25	
7.250	2400386	2212535	0.922	2.85	8 Aroclor 1260
7.281	634900	571557	0.900	0.75	
7.388	1200987	979505	0.816	1.42	
7.441	1429934	1276838	0.893	1.69	8 Aroclor 1260
7.552	111009	85091	0.767	0.13	
7.689	580496	520633	0.897	0.69	
7.725	89313	74560	0.835	0.10	
7.800	75994	59194	0.779	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.898	1297106	1106999	0.853	1.54	8 Aroclor 1260
7.963	96979	75104	0.774	0.11	
8.069	9924	8258	0.832	0.01	
8.273	333425	293876	0.881	0.39	
8.377	28033	18870	0.673	0.03	
8.570	5327191	4631755	0.869	6.33	$ 12 Decachlorobiphenyl
8.940	24498	17482	0.714	0.02	
9.470	26517	17766	0.670	0.03	
9.960	28583	18720	0.655	0.03	
	84124576	73081326		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318033.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-MAR-2018 21:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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			
2.483	2.484	-0.001	6123159	0.05000	0.050			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1544029	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1533219	0.50000	0.49	0.00- 20.00	99.30	BA
3.825	3.826	-0.001	4366664	0.50000	0.49	0.00- 20.00	282.81	BA
3.928	3.929	-0.001	1867797	0.50000	0.49	0.00- 20.00	120.97	BA
3.993	3.994	-0.001	1256613	0.50000	0.48	0.00- 20.00	81.39	BA
Average of Peak Amounts =					0.49000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4387574	0.50000	0.50	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	4938608	0.50000	0.49	0.00- 20.00	112.56	BA
7.250	7.251	-0.001	2400386	0.50000	0.50	0.00- 20.00	54.71	BA
7.441	7.443	-0.002	1429933	0.50000	0.49	0.00- 20.00	32.59	BA
7.898	7.901	-0.003	1297106	0.50000	0.49	0.00- 20.00	29.56	BA
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5327190	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\031318.b\031318033.D

Date : 13-MAR-2018 21:57

Client ID: 1660-CCV

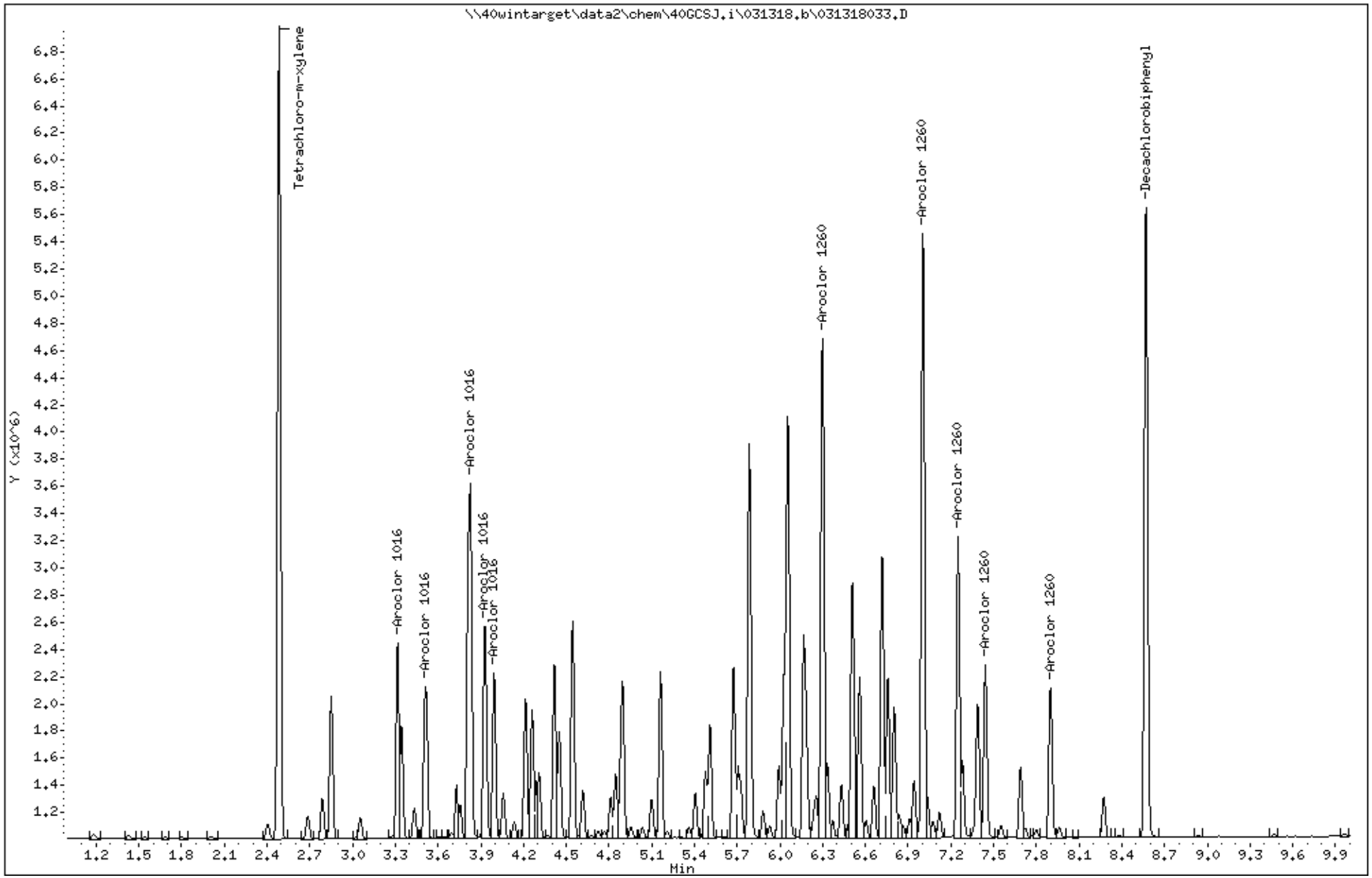
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

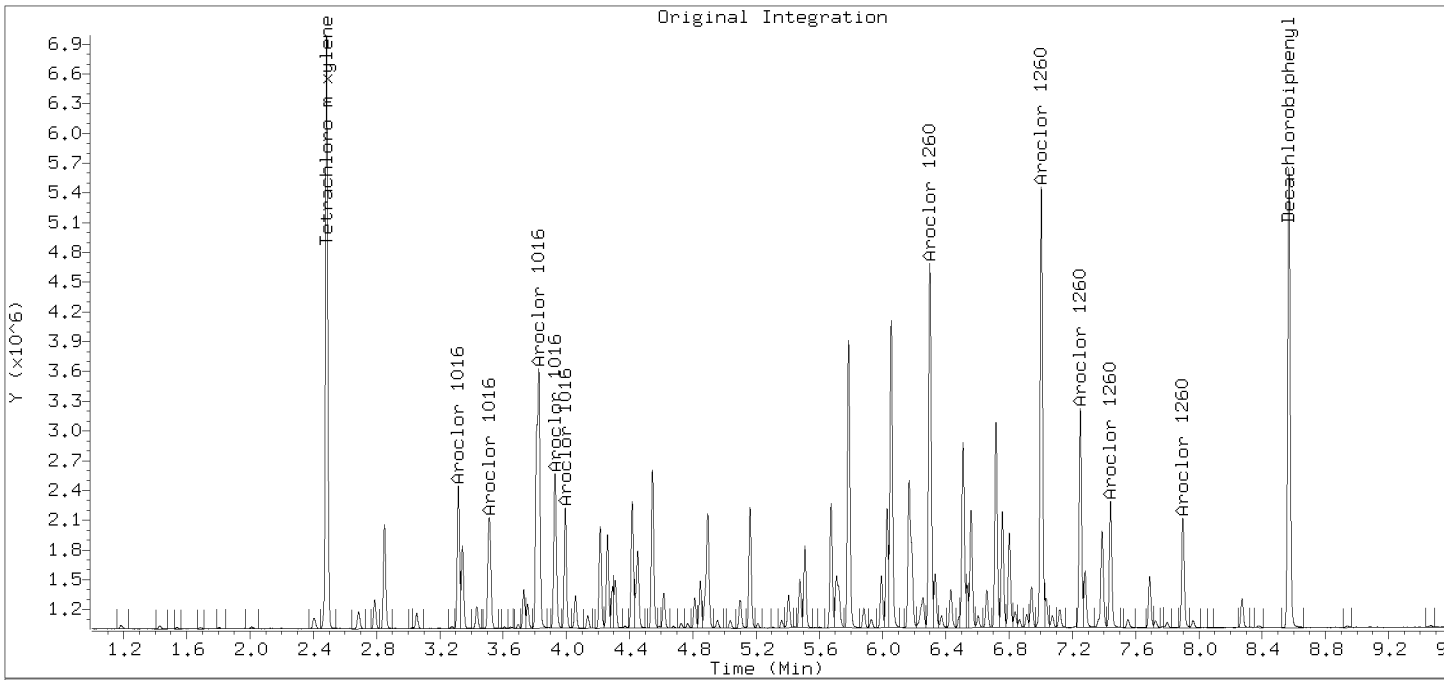
Operator: BLM

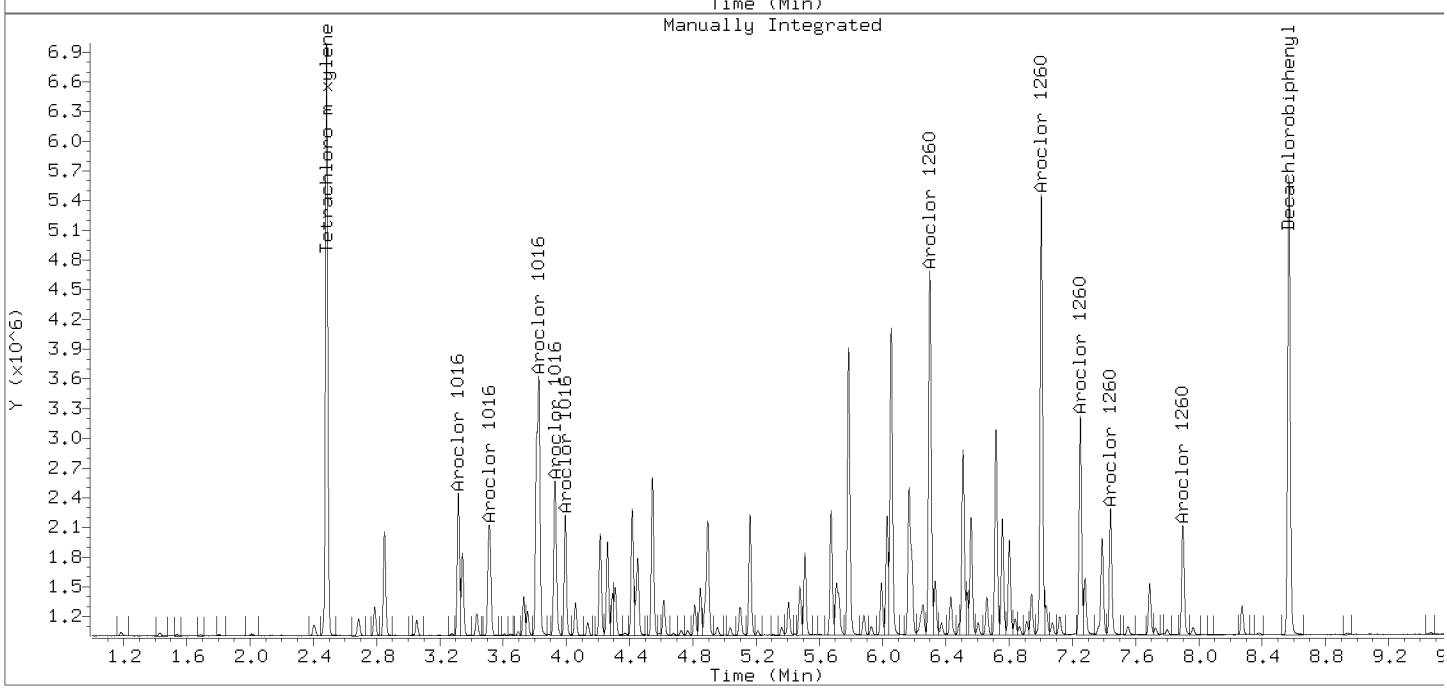
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318033.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 13-MAR-2018 21:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1539387	1544029	BA
Aroclor 1016	1539387	1544029	BA
Aroclor 1016	1539387	1544029	BA
Aroclor 1016	1539387	1544029	BA
Aroclor 1016	1539387	1544029	BA
Aroclor 1260	4376701	4387574	BA
Aroclor 1260	4376701	4387574	BA
Aroclor 1260	4376701	4387574	BA
Aroclor 1260	4376701	4387574	BA
Aroclor 1260	4376701	4387574	BA
Tetrachloro-m-xylene	6123159	6123159	
Decachlorobiphenyl	5327190	5327190	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 20-MAR-2018 13:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	18769	12886	0.687	0.07		
1.429	32246	27140	0.842	0.13		
1.538	17672	12686	0.718	0.07		
1.687	16874	12883	0.763	0.06		
1.805	279489	238736	0.854	1.14		
2.014	16714	9586	0.574	0.06		
2.197	80947	68027	0.840	0.33		
2.406	183636	136726	0.745	0.75		
2.485	5513237	5173006	0.938	22.96	$ 2 Tetrachloro-m-xylene	
2.688	400252	323681	0.809	1.64		
2.789	367326	336893	0.917	1.50		
2.851	1173523	1049934	0.895	4.81	4 Aroclor 1232	BA
3.055	85153	70376	0.826	0.34		
3.279	64210	44787	0.698	0.26		
3.317	685428	616910	0.900	2.81		
3.344	375417	346526	0.923	1.54		
3.434	113456	99387	0.876	0.46		
3.513	636911	461134	0.724	2.61	4 Aroclor 1232	BA
3.611	18225	15806	0.867	0.07		
3.697	22969	22403	0.975	0.09		
3.731	163746	166117	1.014	0.67		
3.756	111768	104889	0.938	0.45		
3.827	1704173	1002873	0.588	6.99	4 Aroclor 1232	BA
3.930	729265	611968	0.839	2.99	4 Aroclor 1232	BA
3.995	476866	448043	0.940	1.95	4 Aroclor 1232	BA
4.059	146129	125560	0.859	0.59		
4.135	56862	49166	0.865	0.23		
4.214	372764	344032	0.923	1.52		
4.261	356747	334540	0.938	1.46		
4.292	152163	151604	0.996	0.62		
4.310	180155	172692	0.959	0.73		
4.373	17531	12740	0.727	0.07		
4.417	492777	468755	0.951	2.02		
4.452	394065	275637	0.699	1.61		
4.546	624327	571499	0.915	2.56		
4.618	155625	138250	0.888	0.63		
4.727	35969	29926	0.832	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.766	37422	33152	0.886	0.15	
4.812	271193	259278	0.956	1.11	
4.847	471065	441517	0.937	1.93	
4.878	603935	454838	0.753	2.47	
4.958	75526	56837	0.753	0.30	
5.037	497238	449752	0.905	2.04	
5.097	108384	80076	0.739	0.44	
5.162	121126	104311	0.861	0.49	
5.213	84295	73595	0.873	0.34	
5.308	26103	19600	0.751	0.10	
5.363	78887	64046	0.812	0.32	
5.408	122066	103261	0.846	0.50	
5.446	75099	62808	0.836	0.30	
5.508	205816	148969	0.724	0.84	
5.603	61375	53470	0.871	0.25	
5.674	15851	12606	0.795	0.06	
5.709	20116	12800	0.636	0.08	
5.740	16529	14655	0.887	0.06	
5.792	125160	99179	0.792	0.51	
6.025	99686	86279	0.866	0.40	
6.054	28489	26115	0.917	0.11	
6.168	17974	11588	0.645	0.07	
6.298	36679	29319	0.799	0.15	
6.718	16213	12381	0.764	0.06	
7.003	24916	18794	0.754	0.10	
7.125	23452	12320	0.525	0.09	
7.250	13992	10776	0.770	0.05	
7.728	21558	21775	1.010	0.08	
7.801	24229	20216	0.834	0.09	
8.276	43111	35648	0.827	0.17	
8.375	10847	10387	0.958	0.04	
8.571	4722561	3845910	0.814	19.37	$ 12 Decachlorobiphenyl
	24374284	20774062		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 20-MAR-2018 13:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	5513237	0.05000	0.045			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1173523	0.50000	0.47	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	636911	0.50000	0.48	0.00- 20.00	54.27	BA
3.826	3.827	-0.001	1704173	0.50000	0.45	0.00- 20.00	145.22	BA
3.929	3.929	0.000	729265	0.50000	0.45	0.00- 20.00	62.14	BA
3.994	3.995	-0.001	476866	0.50000	0.44	0.00- 20.00	40.64	BA
Average of Peak Amounts =					0.45800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	4722561	0.05000	0.043			

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\032018.b\032018004.D

Date : 20-MAR-2018 13:19

Client ID: 1232-CCV

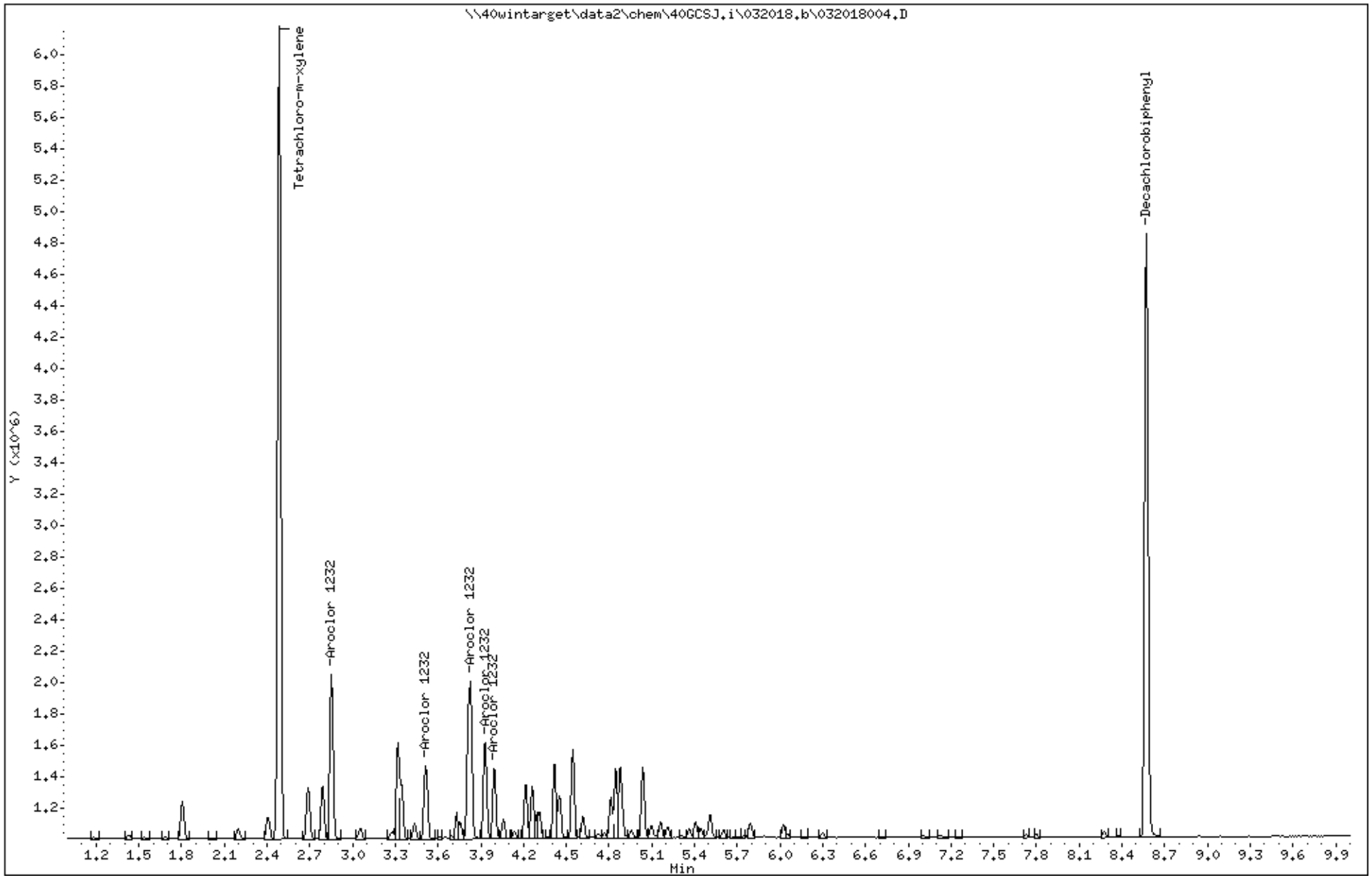
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

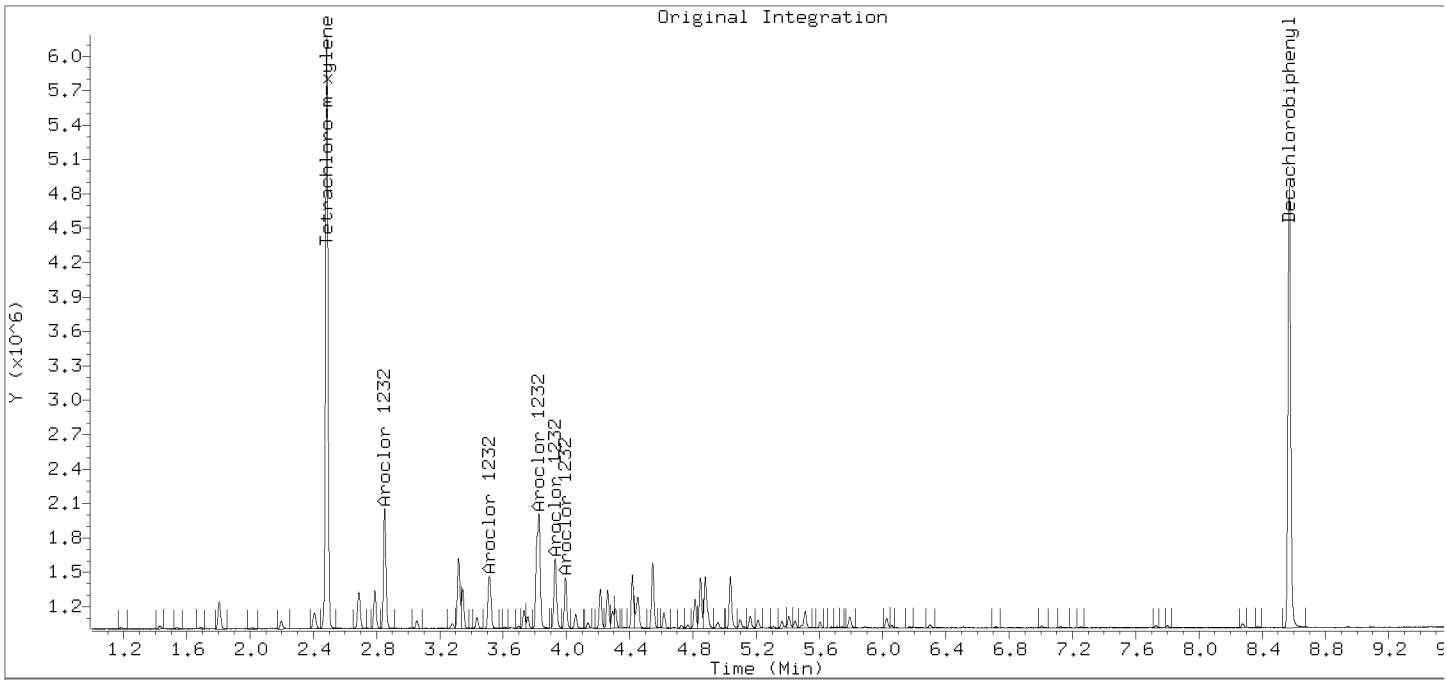
Operator: BLM

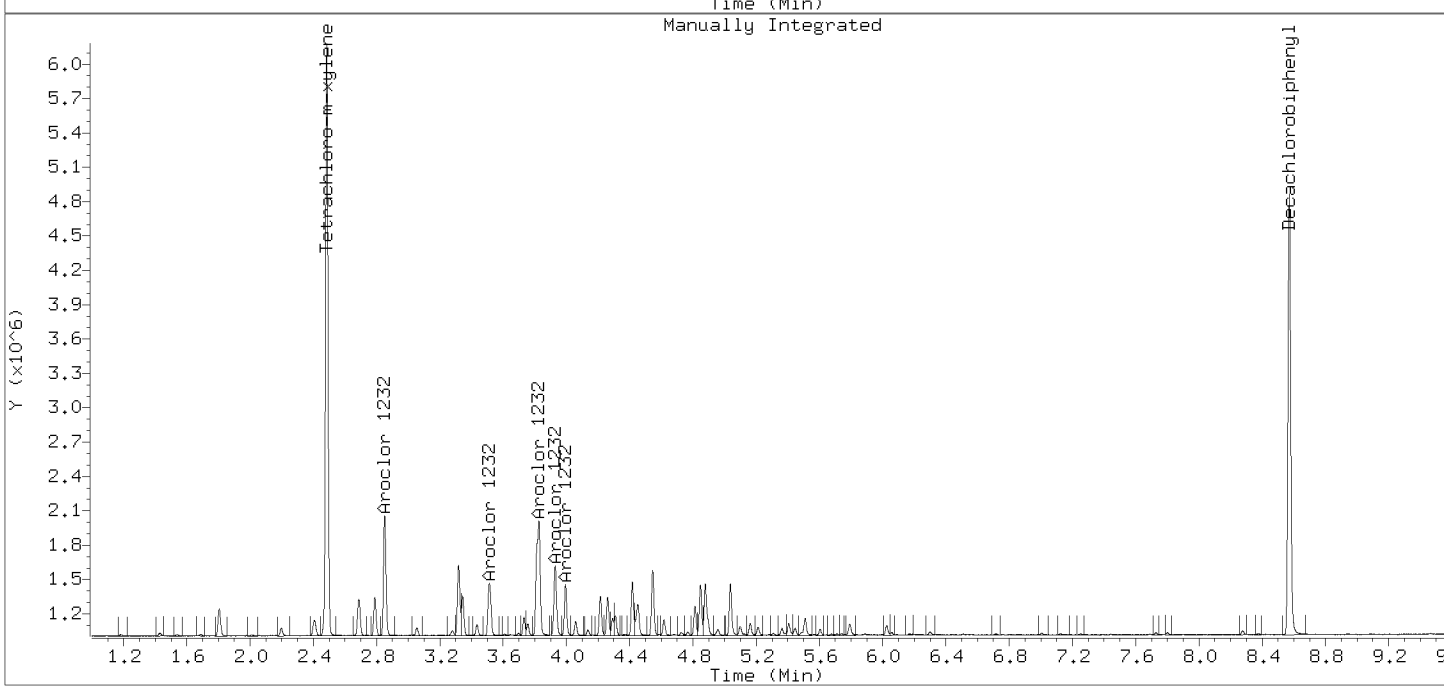
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 20-MAR-2018 13:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Tetrachloro-m-xylene	5513237	5513237	
Decachlorobiphenyl	4722561	4722561	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	47537	36386	0.765	0.12		
1.431	34071	30996	0.910	0.08		
1.537	23782	16295	0.685	0.06		
1.686	19523	18852	0.966	0.05		
1.804	13553	12000	0.885	0.03		
2.010	25710	17582	0.684	0.06		
2.405	122316	91466	0.748	0.31		
2.484	5969109	5729938	0.960	15.88	$ 2 Tetrachloro-m-xylene	
2.687	171691	142551	0.830	0.44		
2.788	266038	251563	0.946	0.69		
2.850	928130	860330	0.927	2.41		
3.030	9298	9246	0.994	0.02		
3.054	137243	126924	0.925	0.35		
3.277	24967	18499	0.741	0.06		
3.318	1276490	1191897	0.934	3.31	3 Aroclor 1242	BA
3.344	727563	683689	0.940	1.89		
3.435	202188	182850	0.904	0.52		
3.513	1261881	906771	0.719	3.27	3 Aroclor 1242	BA
3.609	20578	18722	0.910	0.05		
3.645	20839	16895	0.811	0.05		
3.695	35496	37348	1.052	0.09		
3.731	322022	315106	0.979	0.83		
3.755	204643	198166	0.968	0.53		
3.826	3561407	2085011	0.585	9.25	3 Aroclor 1242	BA
3.928	1527637	1243480	0.814	3.97	3 Aroclor 1242	BA
3.994	1022344	971583	0.950	2.65	3 Aroclor 1242	BA
4.059	305638	267848	0.876	0.79		
4.136	120161	106523	0.887	0.31		
4.214	850376	783754	0.922	2.21		
4.261	816845	785877	0.962	2.12		
4.292	318376	350236	1.100	0.82		
4.310	445172	385531	0.866	1.15		
4.370	25042	20782	0.830	0.06		
4.417	1117389	1056118	0.945	2.90		
4.452	871962	643862	0.738	2.26		
4.545	1469124	1329484	0.905	3.81		
4.618	337572	301895	0.894	0.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	22931	18966	0.827	0.05	
4.725	70888	59009	0.832	0.18	
4.769	81572	75761	0.929	0.21	
4.813	668602	635712	0.951	1.73	
4.848	1147158	1078495	0.940	2.98	
4.879	1499236	1086023	0.724	3.89	
4.958	181808	131797	0.725	0.47	
5.037	1216160	1107589	0.911	3.16	
5.099	273516	209972	0.768	0.71	
5.162	310249	275455	0.888	0.80	
5.213	234347	209922	0.896	0.60	
5.286	19361	20123	1.039	0.05	
5.311	57711	45006	0.780	0.15	
5.363	203953	171215	0.839	0.53	
5.406	334512	285150	0.852	0.86	
5.447	218635	182548	0.835	0.56	
5.509	543162	412066	0.759	1.41	
5.604	166982	138964	0.832	0.43	
5.713	39916	27371	0.686	0.10	
5.742	46903	38646	0.824	0.12	
5.792	377948	302875	0.801	0.98	
5.891	46881	33797	0.721	0.12	
5.991	12860	12654	0.984	0.03	
6.025	306599	253744	0.828	0.79	
6.056	66608	54454	0.818	0.17	
6.168	31958	21225	0.664	0.08	
6.226	26828	16286	0.607	0.06	
6.299	102864	85183	0.828	0.26	
6.333	22218	18437	0.830	0.05	
6.376	12987	12359	0.952	0.03	
6.440	12993	9648	0.743	0.03	
6.538	39899	30451	0.763	0.10	
6.801	23279	19654	0.844	0.06	
7.004	10373	8347	0.805	0.02	
7.130	22022	13808	0.627	0.05	
7.252	16455	10003	0.608	0.04	
7.727	22510	19834	0.881	0.05	
7.801	11567	12711	1.099	0.03	
8.273	51945	38191	0.735	0.13	
8.378	24040	17476	0.727	0.06	
8.570	5170561	4324165	0.836	13.43	$ 12 Decachlorobiphenyl
8.938	27108	15441	0.570	0.07	
9.467	21603	15652	0.725	0.05	
9.960	19905	14335	0.720	0.05	
	38473325	32816576		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5969108	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1276490	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1261880	0.50000	0.50	0.00- 20.00	98.86	BA
3.826	3.827	-0.001	3561406	0.50000	0.50	0.00- 20.00	279.00	BA
3.928	3.929	-0.001	1527637	0.50000	0.50	0.00- 20.00	119.67	BA
3.994	3.995	-0.001	1022343	0.50000	0.50	0.00- 20.00	80.09	BA
Average of Peak Amounts =					0.50000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5170560	0.05000	0.047			

QC Flag Legend

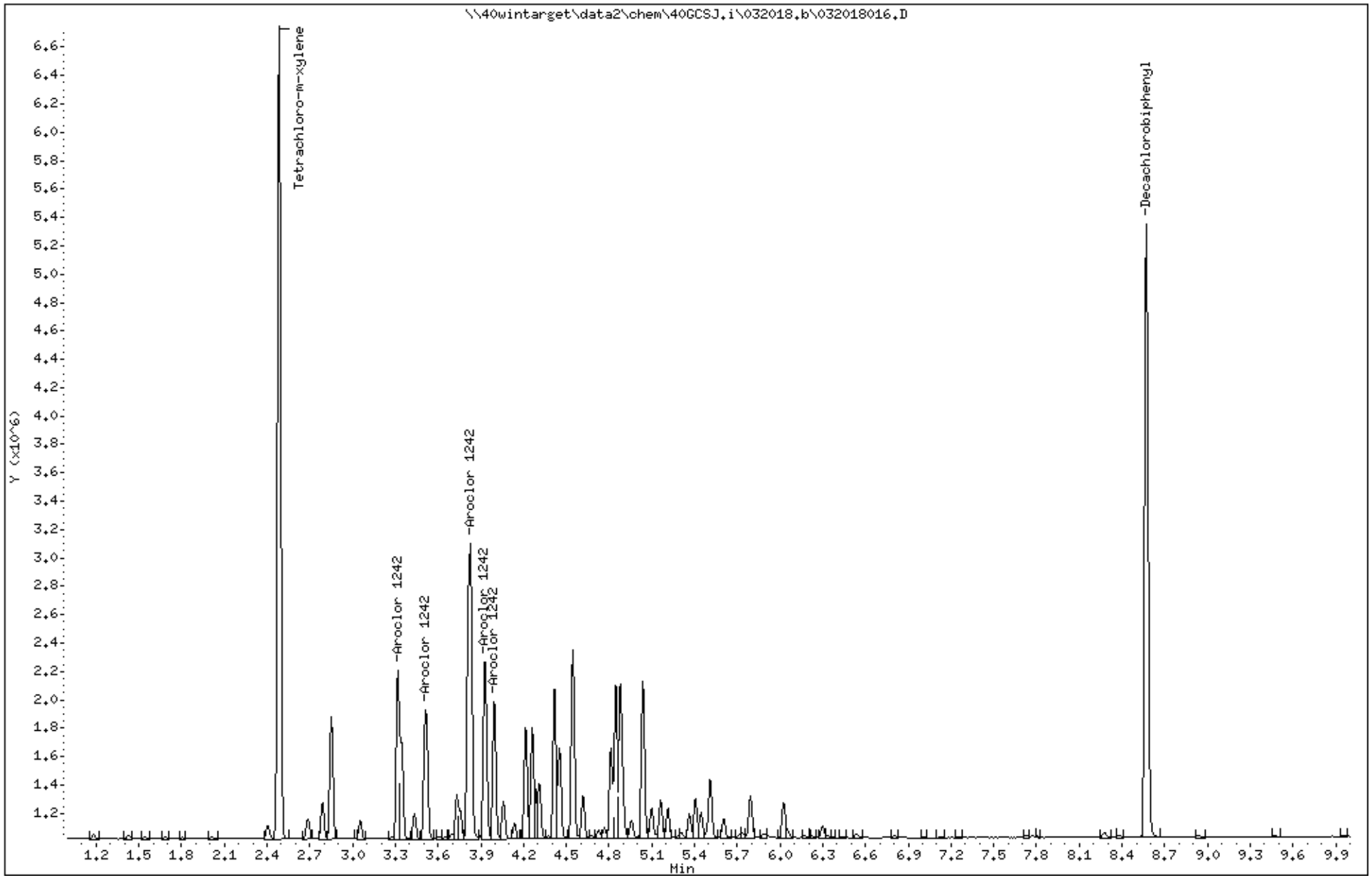
M - Compound response manually integrated.

Review Codes Legend

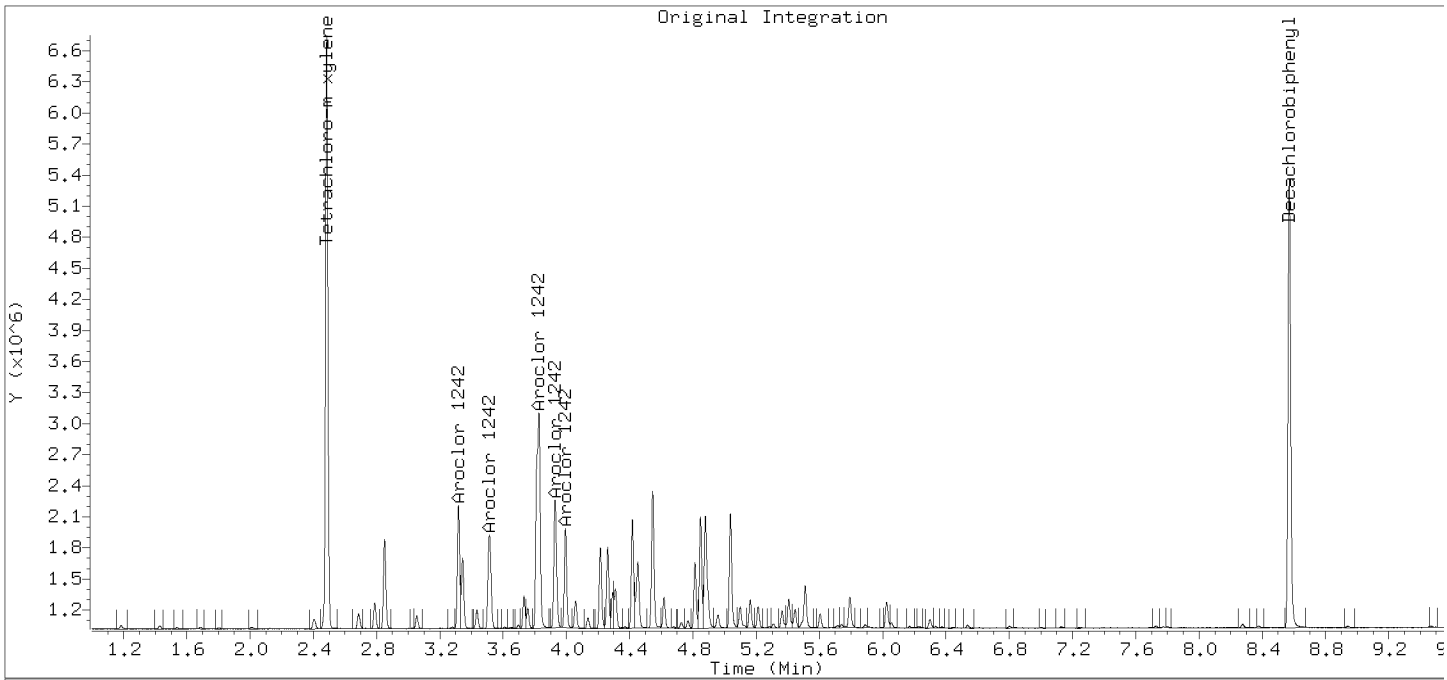
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

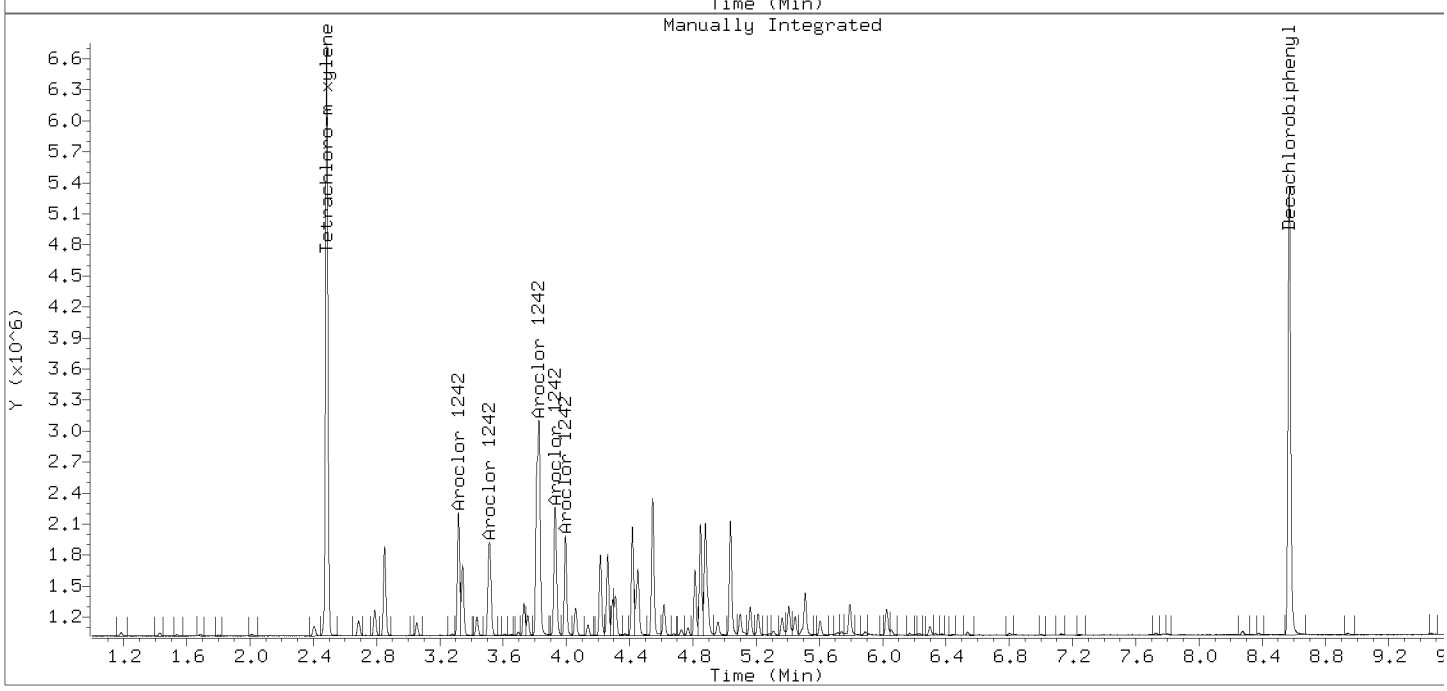
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Date : 20-MAR-2018 16:29
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 20-MAR-2018 16:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Tetrachloro-m-xylene	5969108	5969108	
Decachlorobiphenyl	5170560	5170560	

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318004.D

Date : 23-MAR-2018 13:25

Client ID: 1242-CCV

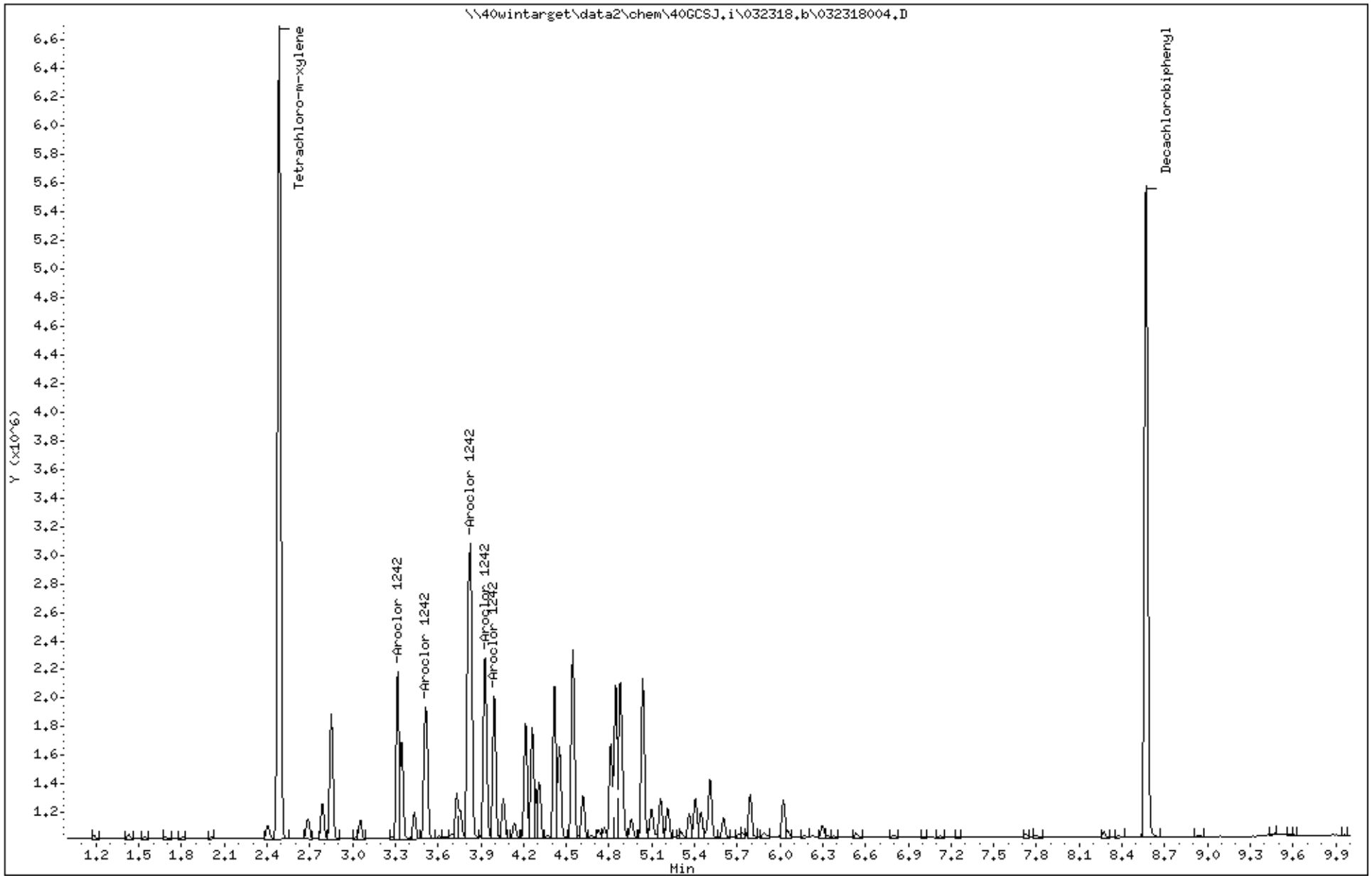
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

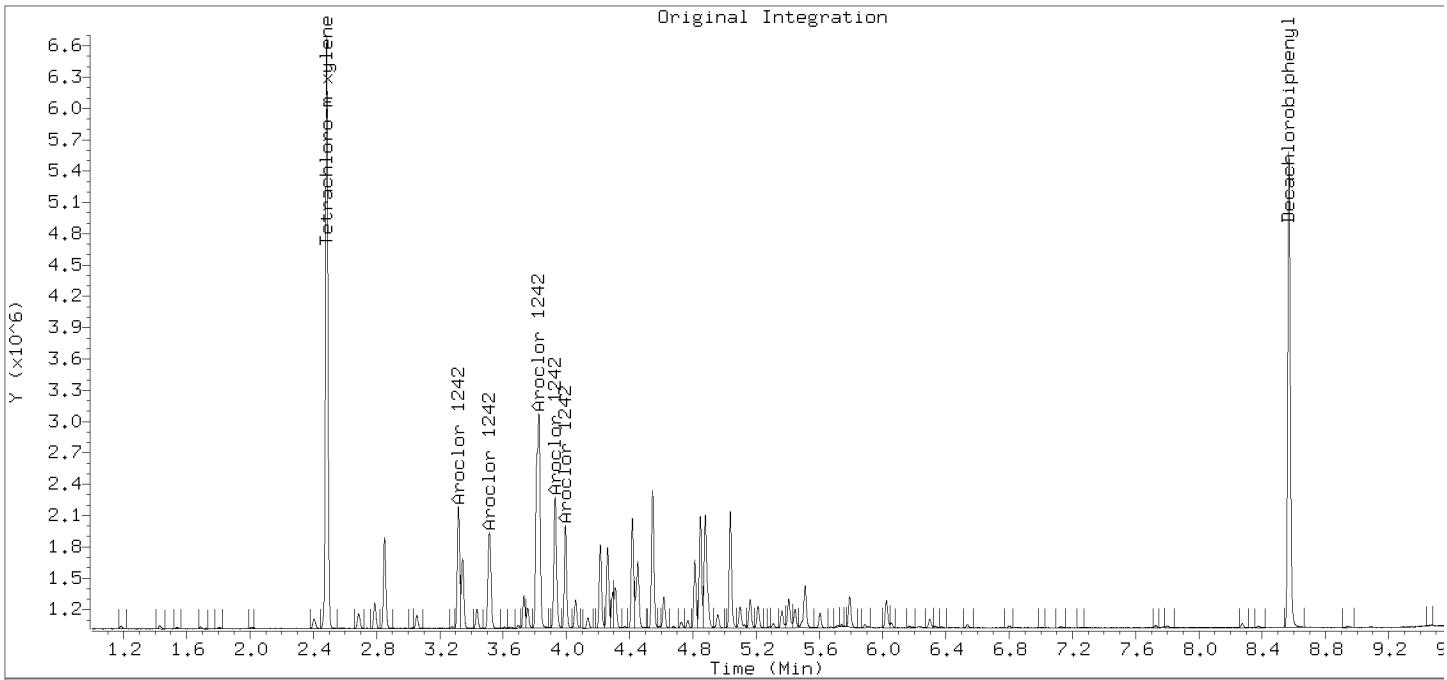
Operator: BLM

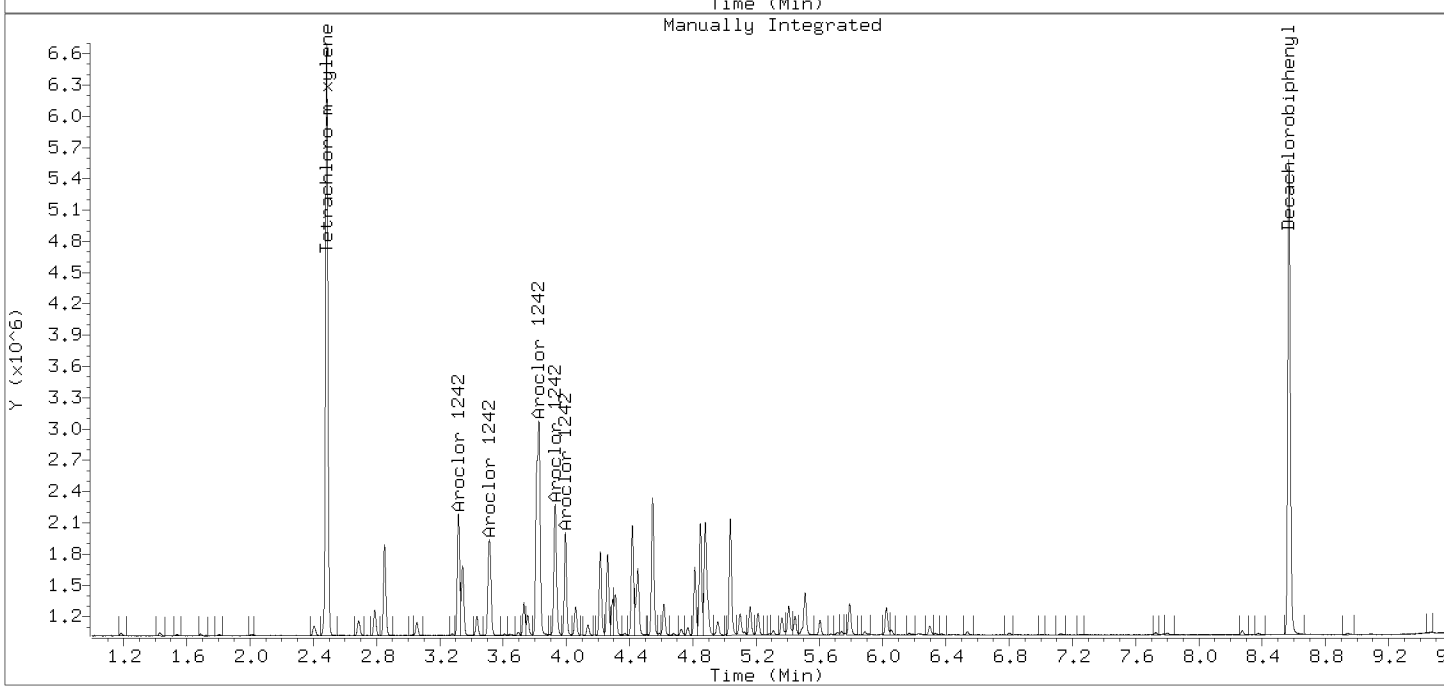
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6135153	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1221865	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2138911	0.50000	0.52	0.00- 20.00	175.05	BA
4.811	4.812	-0.001	1080121	0.50000	0.53	0.00- 20.00	88.40	BA
4.878	4.879	-0.001	2650204	0.50000	0.53	0.00- 20.00	216.90	BA
5.036	5.038	-0.002	1898785	0.50000	0.53	0.00- 20.00	155.40	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5547527	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318016.D

Date : 23-MAR-2018 16:35

Client ID: 1248-CCV

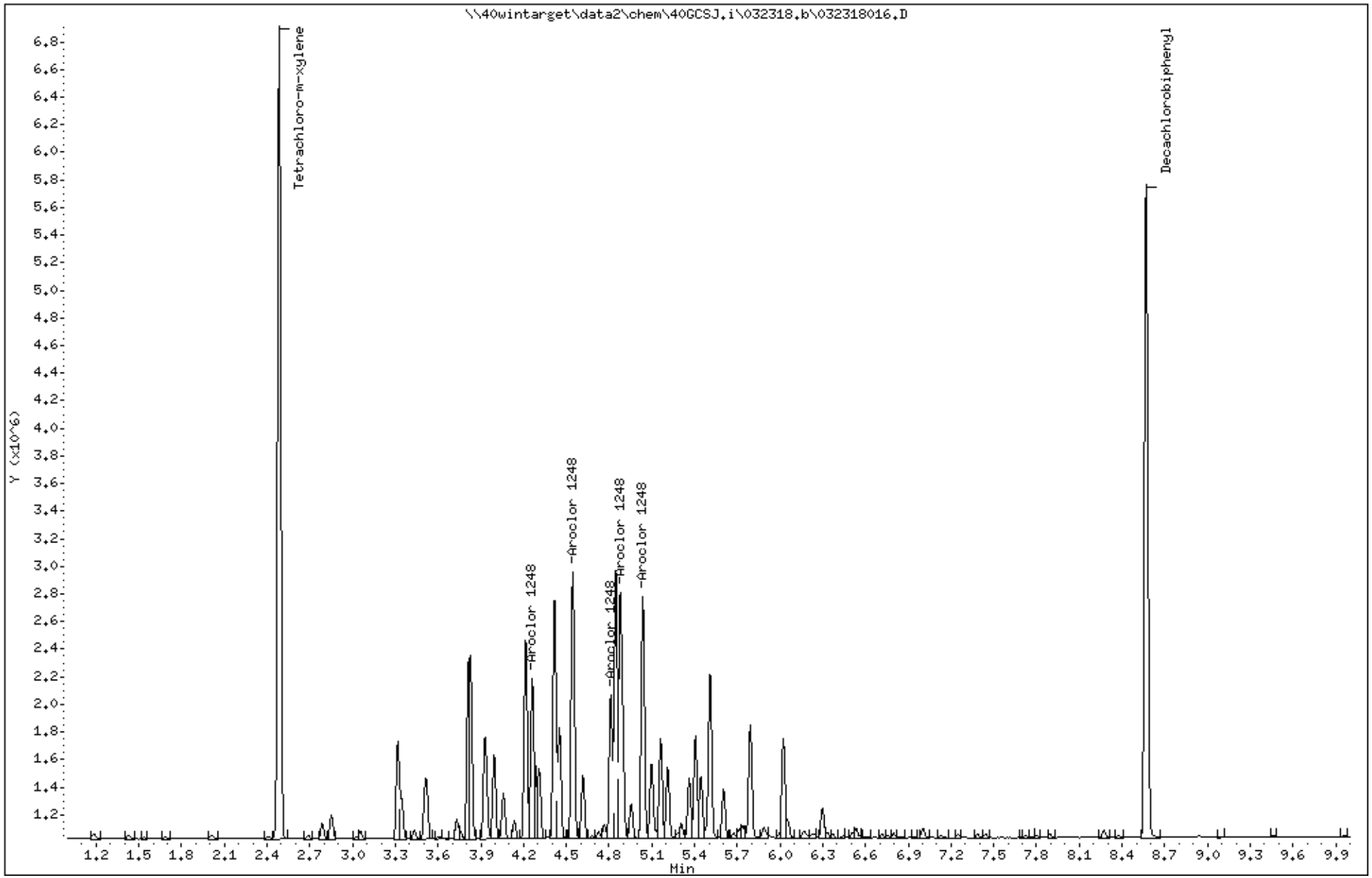
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

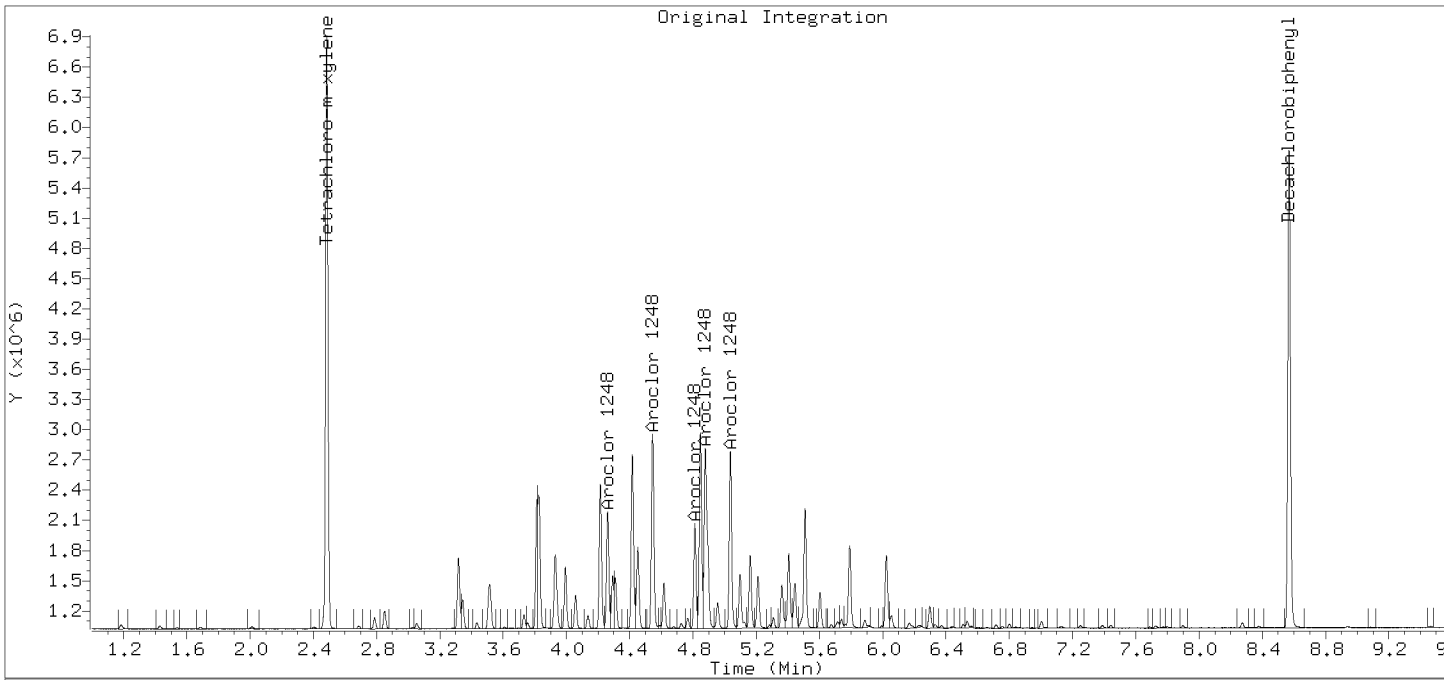
Operator: BLM

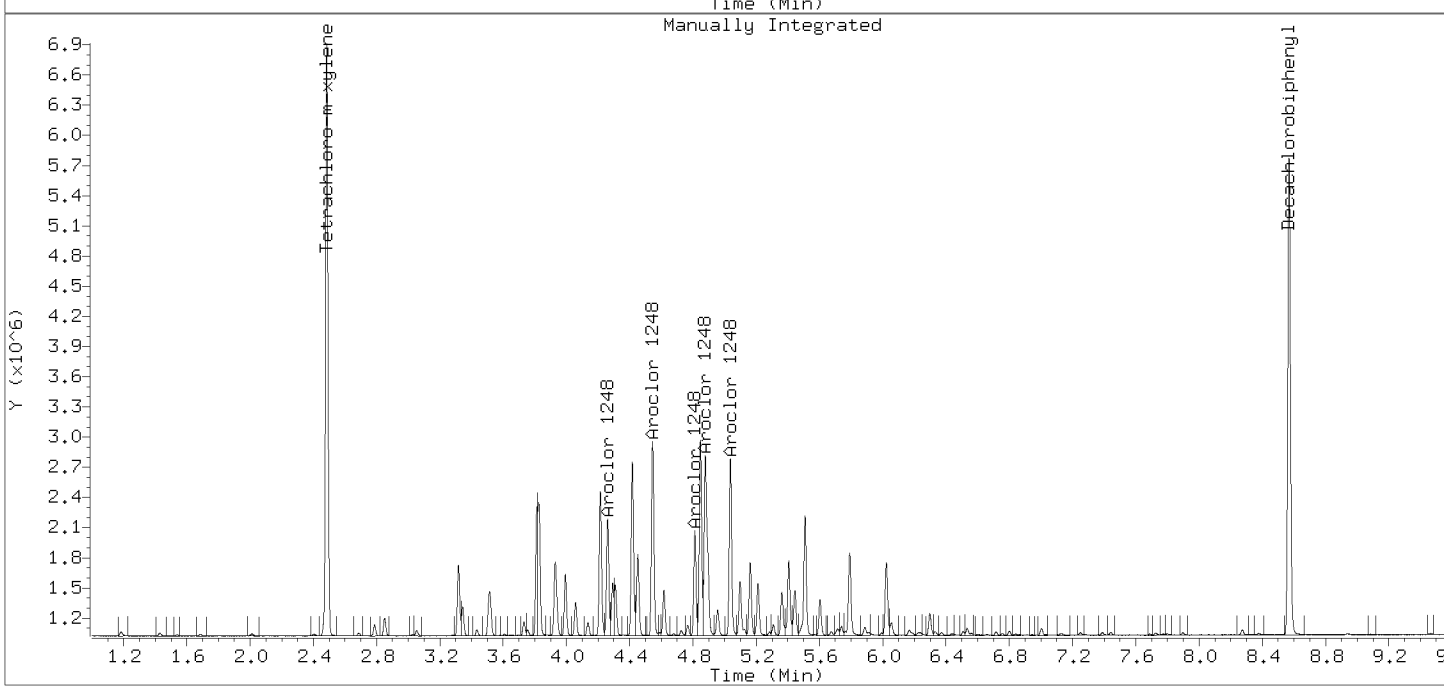
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318028.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 23-MAR-2018 19:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	29652	21903	0.739	0.05		
1.428	37516	31901	0.850	0.06		
1.537	19569	14304	0.731	0.03		
1.685	25897	21760	0.840	0.04		
2.009	23647	15942	0.674	0.04		
2.484	6120796	5896128	0.963	11.61	$ 2 Tetrachloro-m-xylene	
2.786	88630	83458	0.942	0.16		
2.852	23069	19735	0.855	0.04		
3.028	9491	8746	0.921	0.01		
3.049	20216	18994	0.940	0.03		
3.318	33421	30290	0.906	0.06		
3.345	17670	17270	0.977	0.03		
3.510	34204	22322	0.653	0.06		
3.610	19957	19386	0.971	0.03		
3.730	12739	13728	1.078	0.02		
3.813	71751	50914	0.710	0.13		
3.935	65889	43268	0.657	0.12		
3.993	35681	30579	0.857	0.06		
4.053	32138	25135	0.782	0.05		
4.214	1259614	1189735	0.945	2.29		
4.260	337975	323521	0.957	0.61		
4.291	62638	48107	0.768	0.11		
4.416	775118	755165	0.974	1.41		
4.453	77018	69970	0.908	0.14		
4.545	350533	325639	0.929	0.63		
4.589	13217	15401	1.165	0.02		
4.615	60695	55307	0.911	0.11		
4.681	21591	16681	0.773	0.03		
4.767	23772	22363	0.941	0.04		
4.812	304663	295195	0.969	0.55		
4.847	1160049	1112207	0.959	2.11		
4.893	2463660	1965227	0.798	4.49		
4.956	395163	358981	0.908	0.72		
5.036	252638	240280	0.951	0.46		
5.099	1448905	1258130	0.868	2.64		
5.161	2676795	2453227	0.916	4.88	7 Aroclor 1254	BA
5.212	1224451	1089023	0.889	2.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.283	61794	63204	1.023	0.11	
5.308	224571	202863	0.903	0.40	
5.362	1069894	1007132	0.941	1.95	
5.406	2219788	2027869	0.914	4.05	7 Aroclor 1254
5.445	759557	687306	0.905	1.38	
5.477	268005	263012	0.981	0.48	
5.508	3993590	3658849	0.916	7.28	7 Aroclor 1254
5.576	31514	30702	0.974	0.05	
5.603	554715	513269	0.925	1.01	
5.674	357327	330300	0.924	0.65	
5.711	550341	365133	0.663	1.00	
5.739	348898	289840	0.831	0.63	
5.789	4091979	3314853	0.810	7.46	
5.883	348928	274650	0.787	0.63	
5.926	188190	118367	0.629	0.34	
5.993	337486	311023	0.922	0.61	
6.025	2615594	2200138	0.841	4.77	7 Aroclor 1254
6.054	1783537	1586251	0.889	3.25	
6.167	734013	641016	0.873	1.33	
6.226	319213	302649	0.948	0.58	
6.240	317605	301531	0.949	0.57	
6.297	3420020	2926176	0.856	6.24	7 Aroclor 1254
6.331	592193	541431	0.914	1.08	
6.371	337505	291104	0.863	0.61	
6.435	85753	54455	0.635	0.15	
6.509	123022	129113	1.050	0.22	
6.535	1153130	924032	0.801	2.10	
6.602	169592	142352	0.839	0.30	
6.659	32388	27861	0.860	0.05	
6.716	228755	192220	0.840	0.41	
6.757	132797	122723	0.924	0.24	
6.799	661120	611016	0.924	1.20	
6.840	170571	122800	0.720	0.31	
6.940	63828	51513	0.807	0.11	
7.004	469091	390065	0.832	0.85	
7.070	21761	17921	0.824	0.03	
7.249	378646	342113	0.904	0.69	
7.280	81636	69278	0.849	0.14	
7.386	22120	16986	0.768	0.04	
7.441	33239	23044	0.693	0.06	
7.551	28613	19095	0.667	0.05	
7.689	17815	16013	0.899	0.03	
7.725	29233	22667	0.775	0.05	
7.775	12028	9070	0.754	0.02	
7.801	21155	18056	0.854	0.03	
7.898	21443	19963	0.931	0.03	
8.273	51690	46362	0.897	0.09	
8.377	20127	12358	0.614	0.03	
8.568	5570113	4733514	0.850	10.16	$ 12 Decachlorobiphenyl
9.461	17075	11256	0.659	0.03	
9.956	12802	11091	0.866	0.02	
	54786230	48385527		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318028.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 23-MAR-2018 19:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6120796	0.05000	0.050			
7 Aroclor 1254						CAS #: 11097-69-1		
5.161	5.162	-0.001	2676794	0.50000	0.51	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2219787	0.50000	0.52	0.00- 20.00	82.93	BA
5.508	5.510	-0.002	3993589	0.50000	0.51	0.00- 20.00	149.19	BA
6.024	6.027	-0.003	2615594	0.50000	0.54	0.00- 20.00	97.71	BA
6.297	6.299	-0.002	3420019	0.50000	0.52	0.00- 20.00	127.77	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.568	8.571	-0.003	5570113	0.05000	0.051			

QC Flag Legend

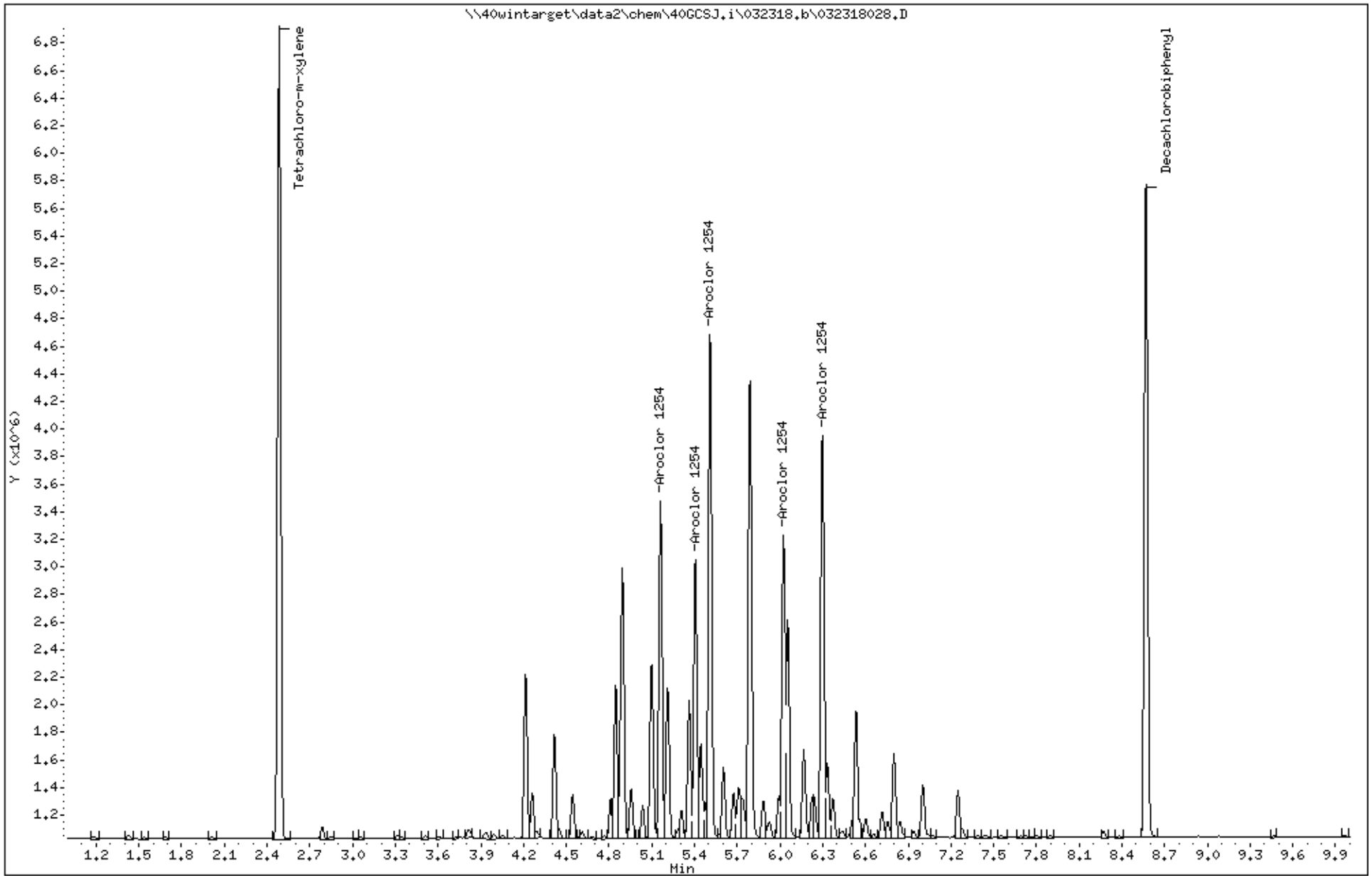
M - Compound response manually integrated.

Review Codes Legend

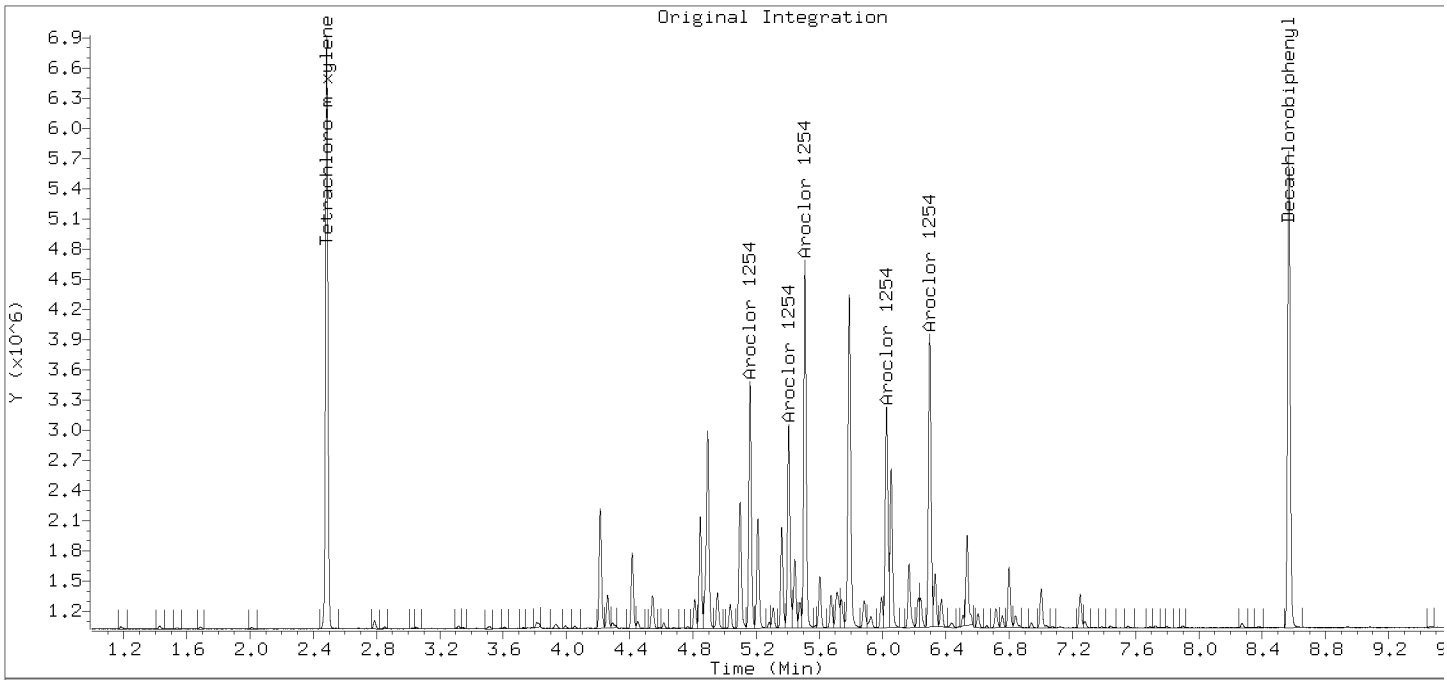
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

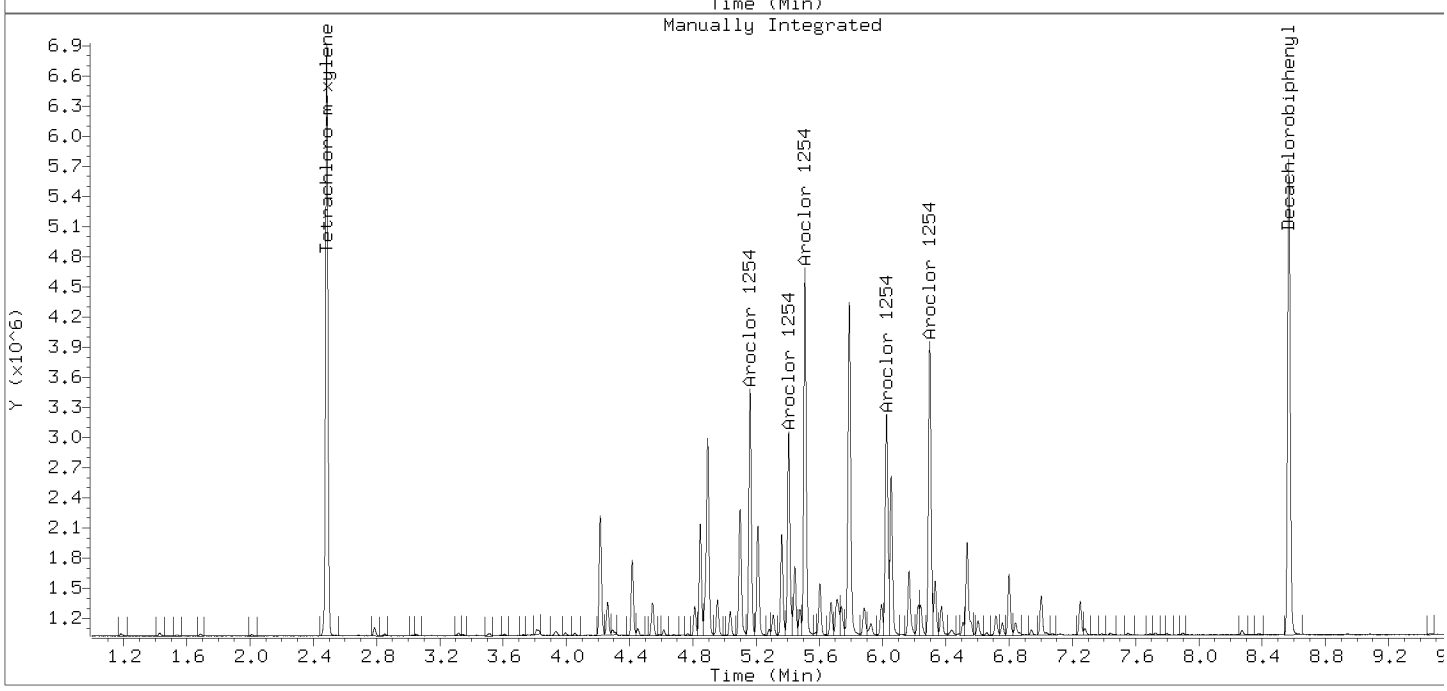
Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318028.D
Date : 23-MAR-2018 19:45
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318028.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 23-MAR-2018 19:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2665867	2676794	BA
Aroclor 1254	2665867	2676794	BA
Aroclor 1254	2665867	2676794	BA
Aroclor 1254	2665867	2676794	BA
Aroclor 1254	2665867	2676794	BA
Tetrachloro-m-xylene	6120796	6120796	
Decachlorobiphenyl	5570113	5570113	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318033.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 23-MAR-2018 21:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 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
1.181	35605	30159	0.847	0.03		
1.429	39356	32443	0.824	0.04		
1.538	17851	15087	0.845	0.02		
1.686	19826	17824	0.899	0.02		
1.804	16834	14618	0.868	0.01		
2.009	25719	18312	0.712	0.02		
2.404	144965	113228	0.781	0.16		
2.484	6248536	5992373	0.959	7.56	$ 2 Tetrachloro-m-xylene	
2.686	210837	174402	0.827	0.23		
2.788	315058	295207	0.937	0.35		
2.850	1163623	1089980	0.937	1.30		
3.053	169166	159911	0.945	0.18		
3.278	28469	23515	0.826	0.03		
3.317	1590387	1459125	0.917	1.78	5 Aroclor 1016	BA
3.343	917503	861189	0.939	1.02		
3.435	251978	229988	0.913	0.28		
3.513	1589559	1131509	0.712	1.78	5 Aroclor 1016	BA
3.607	26135	20651	0.790	0.02		
3.643	26833	18218	0.679	0.03		
3.695	43543	43821	1.006	0.04		
3.731	406906	402445	0.989	0.45		
3.755	283969	256289	0.903	0.31		
3.826	4637411	2748162	0.593	5.20	5 Aroclor 1016	BA
3.928	1970675	1623722	0.824	2.21	5 Aroclor 1016	BA
3.993	1324666	1270965	0.959	1.48	5 Aroclor 1016	BA
4.058	386999	337568	0.872	0.43		
4.136	152743	133460	0.874	0.17		
4.214	1156576	1086024	0.939	1.29		
4.260	1030721	983124	0.954	1.15		
4.292	434593	447099	1.029	0.48		
4.309	542548	508157	0.937	0.60		
4.369	40298	27626	0.686	0.04		
4.416	1429068	1352412	0.946	1.60		
4.452	1072845	815356	0.760	1.20		
4.545	1810091	1659541	0.917	2.03		
4.617	406732	375154	0.922	0.45		
4.678	33145	23973	0.723	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	71738	57583	0.803	0.08	
4.767	58808	54821	0.932	0.06	
4.812	338760	328246	0.969	0.38	
4.846	528230	493719	0.935	0.59	
4.893	1655621	1211458	0.732	1.85	
4.956	106518	83794	0.787	0.11	
5.036	99986	87969	0.880	0.11	
5.099	347259	297809	0.858	0.38	
5.161	1376308	1246657	0.906	1.54	
5.211	65551	51047	0.779	0.07	
5.361	99732	86360	0.866	0.11	
5.405	373702	342729	0.917	0.41	
5.442	17741	17353	0.978	0.01	
5.476	539251	506153	0.939	0.60	
5.509	950906	878351	0.924	1.06	
5.571	16353	14495	0.886	0.01	
5.602	22565	15720	0.697	0.02	
5.673	1383196	1304400	0.943	1.55	
5.708	994899	534784	0.538	1.11	
5.785	3435922	2980350	0.867	3.85	
5.881	231127	204047	0.883	0.25	
5.929	111866	87792	0.785	0.12	
5.992	589520	557377	0.945	0.66	
6.028	1330507	1291756	0.971	1.49	
6.054	3815270	3438144	0.901	4.28	
6.167	2484441	1566409	0.630	2.78	
6.255	557482	319897	0.574	0.62	
6.298	4694638	3919464	0.835	5.26	8 Aroclor 1260
6.331	650044	614045	0.945	0.72	
6.372	158893	133108	0.838	0.17	
6.430	472939	411779	0.871	0.53	
6.485	94537	126558	1.339	0.10	
6.508	2290809	2049278	0.895	2.57	
6.534	424649	469715	1.106	0.47	
6.559	1397131	1278028	0.915	1.56	
6.602	157119	126903	0.808	0.17	
6.659	438705	401290	0.915	0.49	
6.716	2435275	2213115	0.909	2.73	
6.757	1355129	1222194	0.902	1.52	
6.801	1145125	1017819	0.889	1.28	
6.837	205379	181476	0.884	0.23	
6.865	100458	88114	0.877	0.11	
6.910	160683	143639	0.894	0.18	
6.940	481471	442839	0.920	0.54	
7.003	5340350	4922354	0.922	5.99	8 Aroclor 1260
7.032	343167	328472	0.957	0.38	
7.071	160952	135094	0.839	0.18	
7.119	231526	194928	0.842	0.25	
7.217	14869	13792	0.928	0.01	
7.249	2598515	2319832	0.893	2.91	8 Aroclor 1260
7.279	705252	628939	0.892	0.79	
7.387	1273870	1079890	0.848	1.42	
7.441	1537305	1345861	0.875	1.72	8 Aroclor 1260
7.551	121444	94416	0.777	0.13	
7.688	621699	571621	0.919	0.69	
7.726	94924	78474	0.827	0.10	
7.776	15296	14439	0.944	0.01	

Data File: ...wintarget\data2\chem\40GCSJ.i\032318.b\032318033.D Page 3
Report Date: 06-Apr-2018 08:48

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.798	71369	60111	0.842	0.08	
7.898	1406207	1245131	0.885	1.57	8 Aroclor 1260
7.962	99162	77764	0.784	0.11	
8.165	9363	6265	0.669	0.01	
8.272	352254	309847	0.880	0.39	
8.374	26287	18773	0.714	0.02	
8.569	5729268	4943825	0.863	6.43	$ 12 Decachlorobiphenyl
8.863	11943	7815	0.654	0.01	
8.933	17935	10703	0.597	0.02	
9.463	14215	11989	0.843	0.01	
9.958	25080	17327	0.691	0.02	
	89090268	77128883		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318033.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 23-MAR-2018 21:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 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			
2.483	2.484	-0.001	6248536	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1590386	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1589558	0.50000	0.51	0.00- 20.00	99.95	BA
3.826	3.826	0.000	4637410	0.50000	0.52	0.00- 20.00	291.59	BA
3.928	3.929	-0.001	1970675	0.50000	0.52	0.00- 20.00	123.91	BA
3.993	3.994	-0.001	1324666	0.50000	0.51	0.00- 20.00	83.29	BA
Average of Peak Amounts =					0.51600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4694637	0.50000	0.53	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5340350	0.50000	0.53	0.00- 20.00	113.75	BA
7.249	7.251	-0.002	2598515	0.50000	0.54	0.00- 20.00	55.35	BA
7.441	7.443	-0.002	1537304	0.50000	0.53	0.00- 20.00	32.75	BA
7.898	7.901	-0.003	1406207	0.50000	0.53	0.00- 20.00	29.95	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5729267	0.05000	0.052			

QC Flag Legend

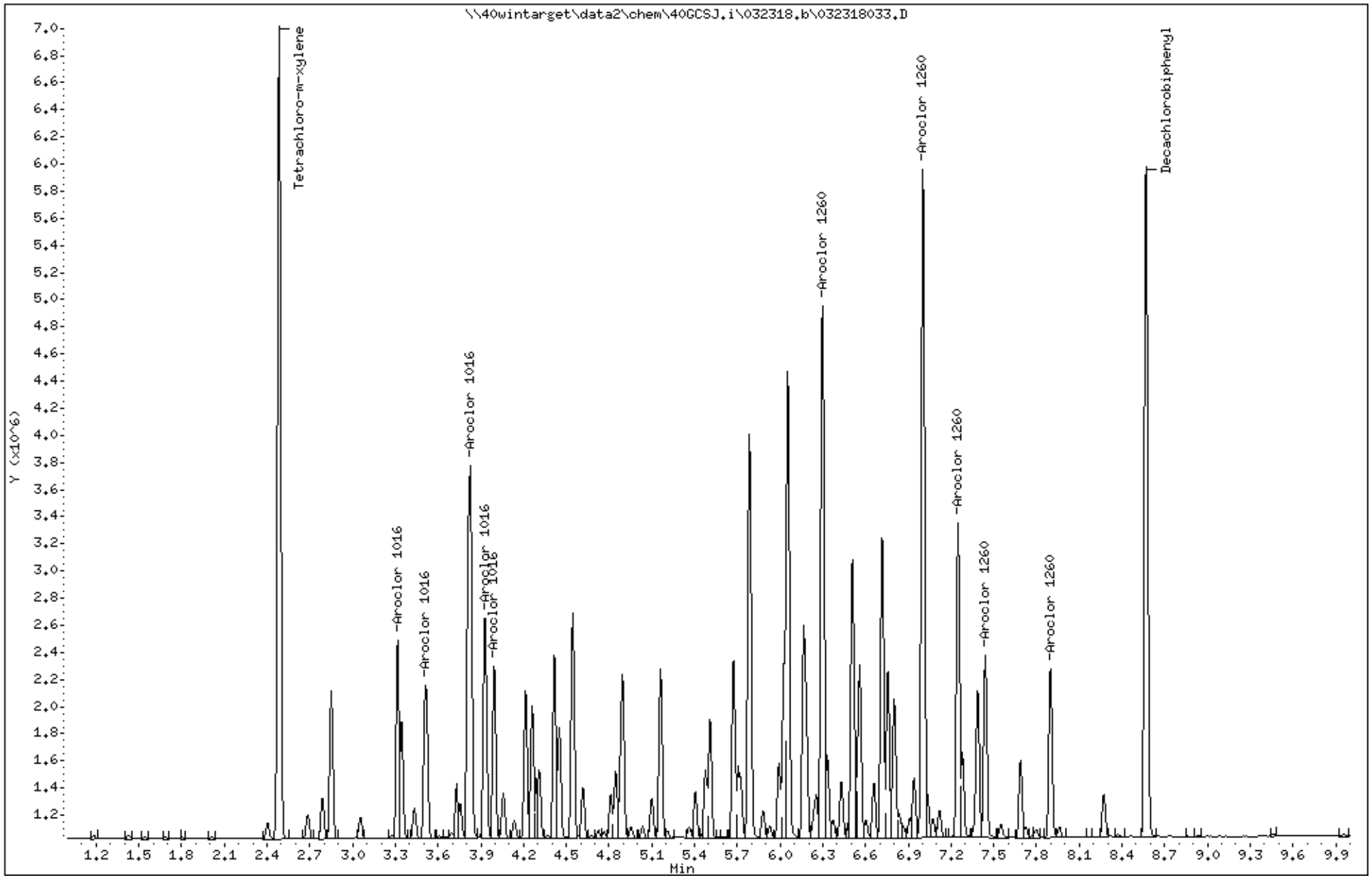
M - Compound response manually integrated.

Review Codes Legend

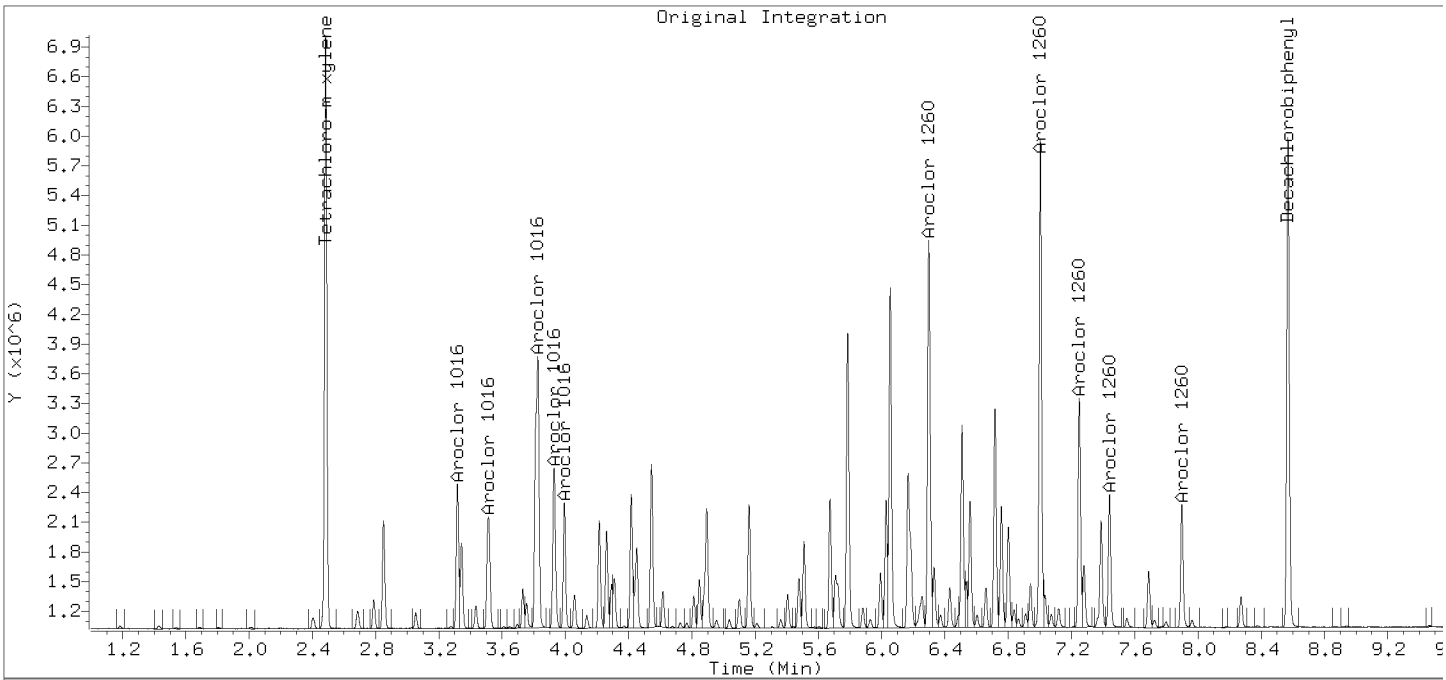
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

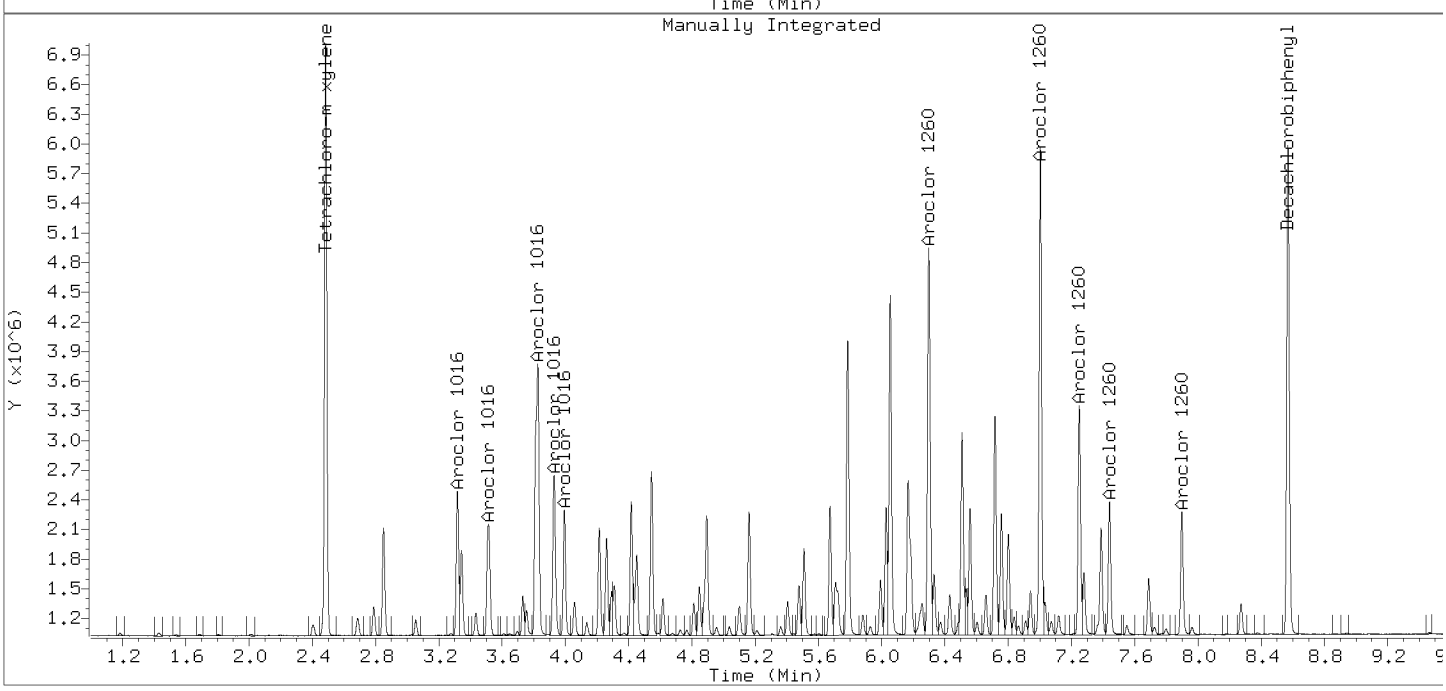
Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318033.D
Date : 23-MAR-2018 21:05
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318033.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 23-MAR-2018 21:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1584611	1590386	BA
Aroclor 1016	1584611	1590386	BA
Aroclor 1016	1584611	1590386	BA
Aroclor 1016	1584611	1590386	BA
Aroclor 1016	1584611	1590386	BA
Aroclor 1260	4677831	4694637	BA
Aroclor 1260	4677831	4694637	BA
Aroclor 1260	4677831	4694637	BA
Aroclor 1260	4677831	4694637	BA
Aroclor 1260	4677831	4694637	BA
Tetrachloro-m-xylene	6248536	6248536	
Decachlorobiphenyl	5729267	5729267	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 05-APR-2018 14:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 05-APR-2018 14:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6083796	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1199509	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2065292	0.50000	0.50	0.00- 20.00	172.18	BA
4.812	4.812	0.000	971874	0.50000	0.48	0.00- 20.00	81.02	BA
4.878	4.879	-0.001	2488942	0.50000	0.49	0.00- 20.00	207.50	BA
5.036	5.038	-0.002	1704138	0.50000	0.47	0.00- 20.00	142.07	BA
Average of Peak Amounts =					0.49000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5317792	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518004.D

Date : 05-APR-2018 14:07

Client ID: 1248-CCV

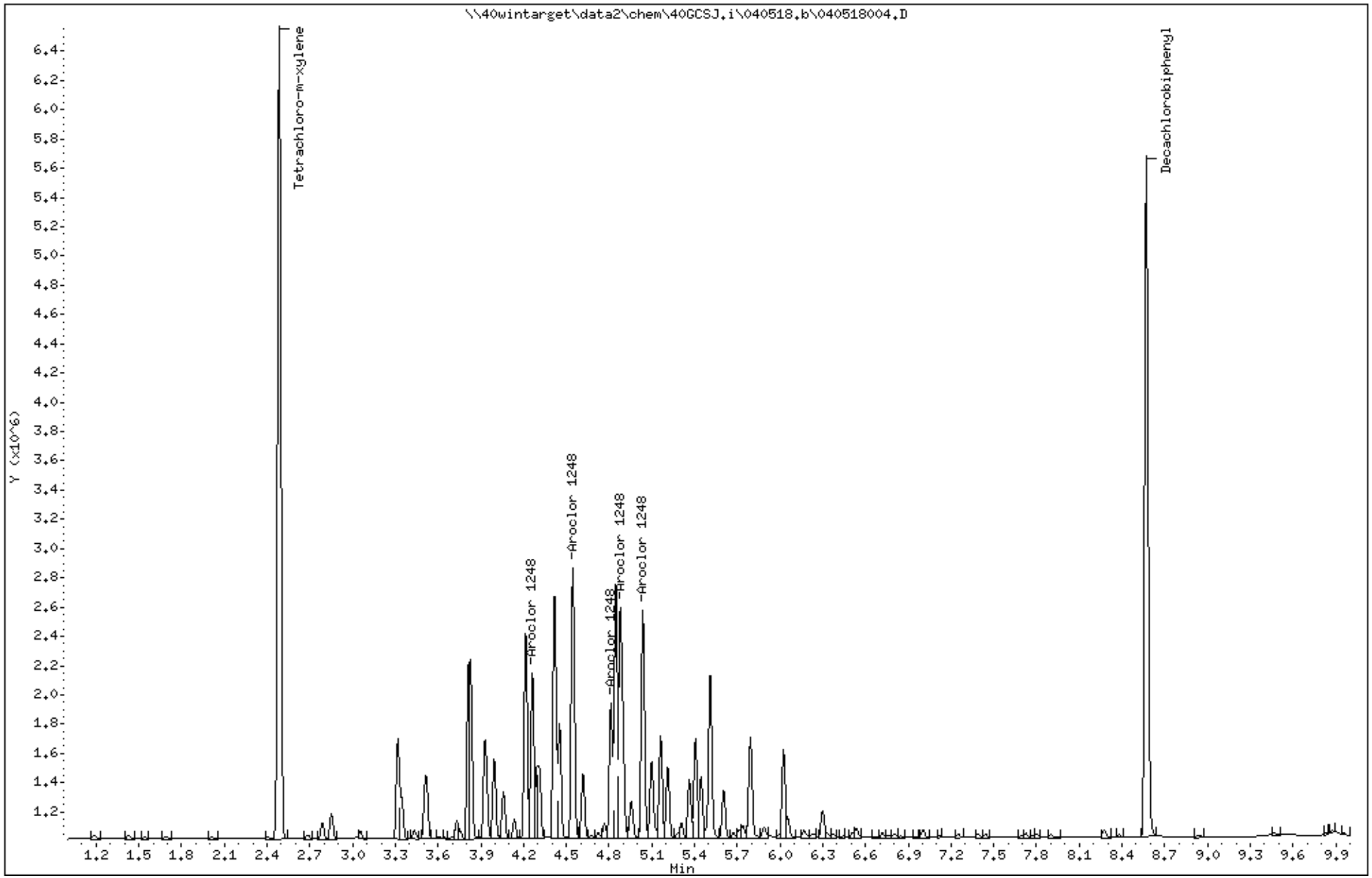
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

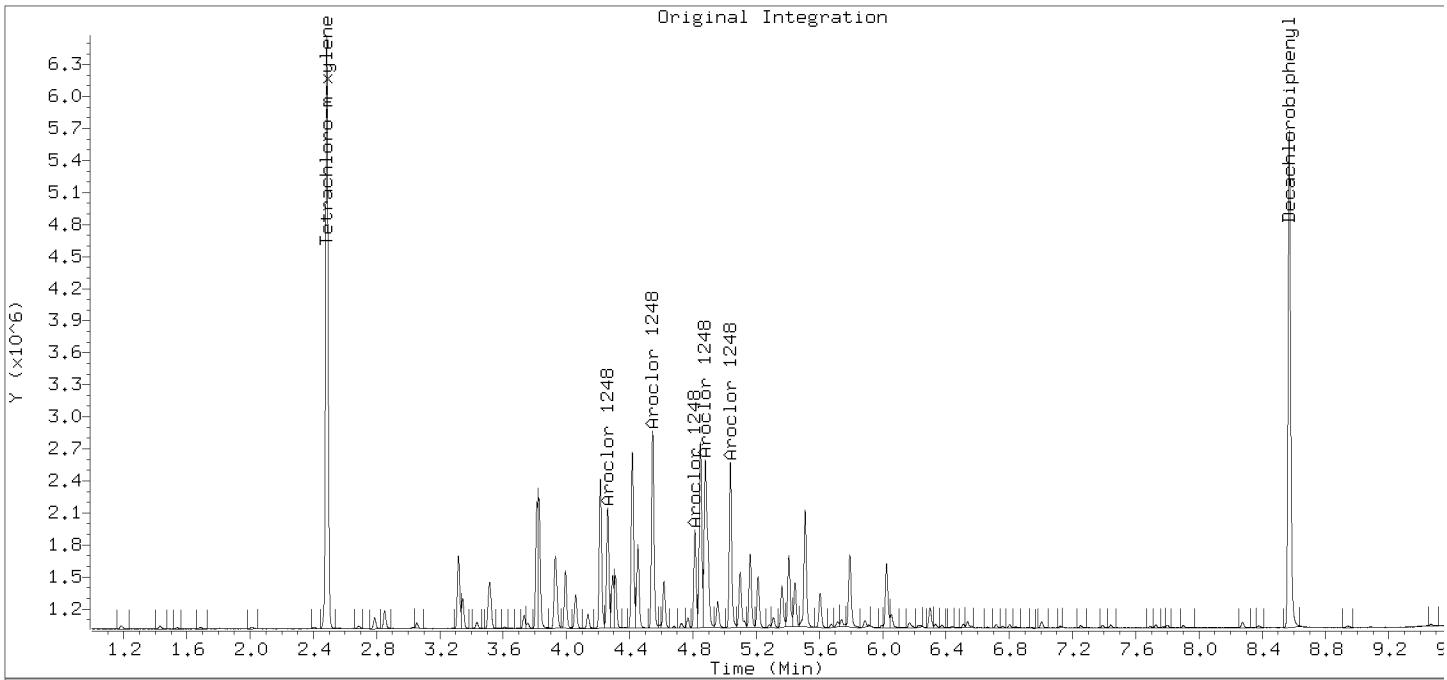
Operator: BLM

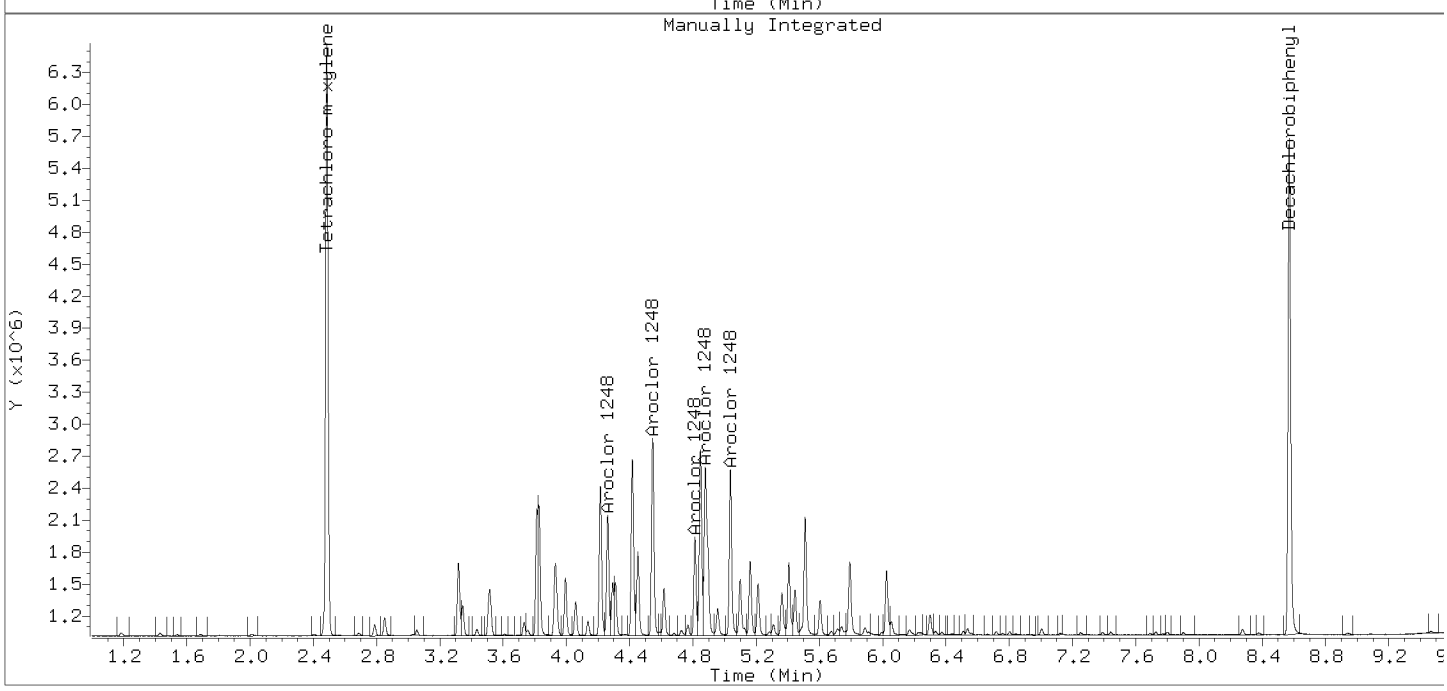
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 05-APR-2018 17:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 05-APR-2018 17:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040518.b\pcba030618.m
Meth Date : 06-Apr-2018 09:05 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6233332	0.05000	0.050			
7 Aroclor 1254						CAS #: 11097-69-1		
5.161	5.162	-0.001	2680270	0.50000	0.51	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2208829	0.50000	0.51	0.00- 20.00	82.41	BA
5.509	5.510	-0.001	3983476	0.50000	0.51	0.00- 20.00	148.62	BA
6.026	6.027	-0.001	2455055	0.50000	0.50	0.00- 20.00	91.60	BA
6.298	6.299	-0.001	3325422	0.50000	0.51	0.00- 20.00	124.07	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5557115	0.05000	0.051			

QC Flag Legend

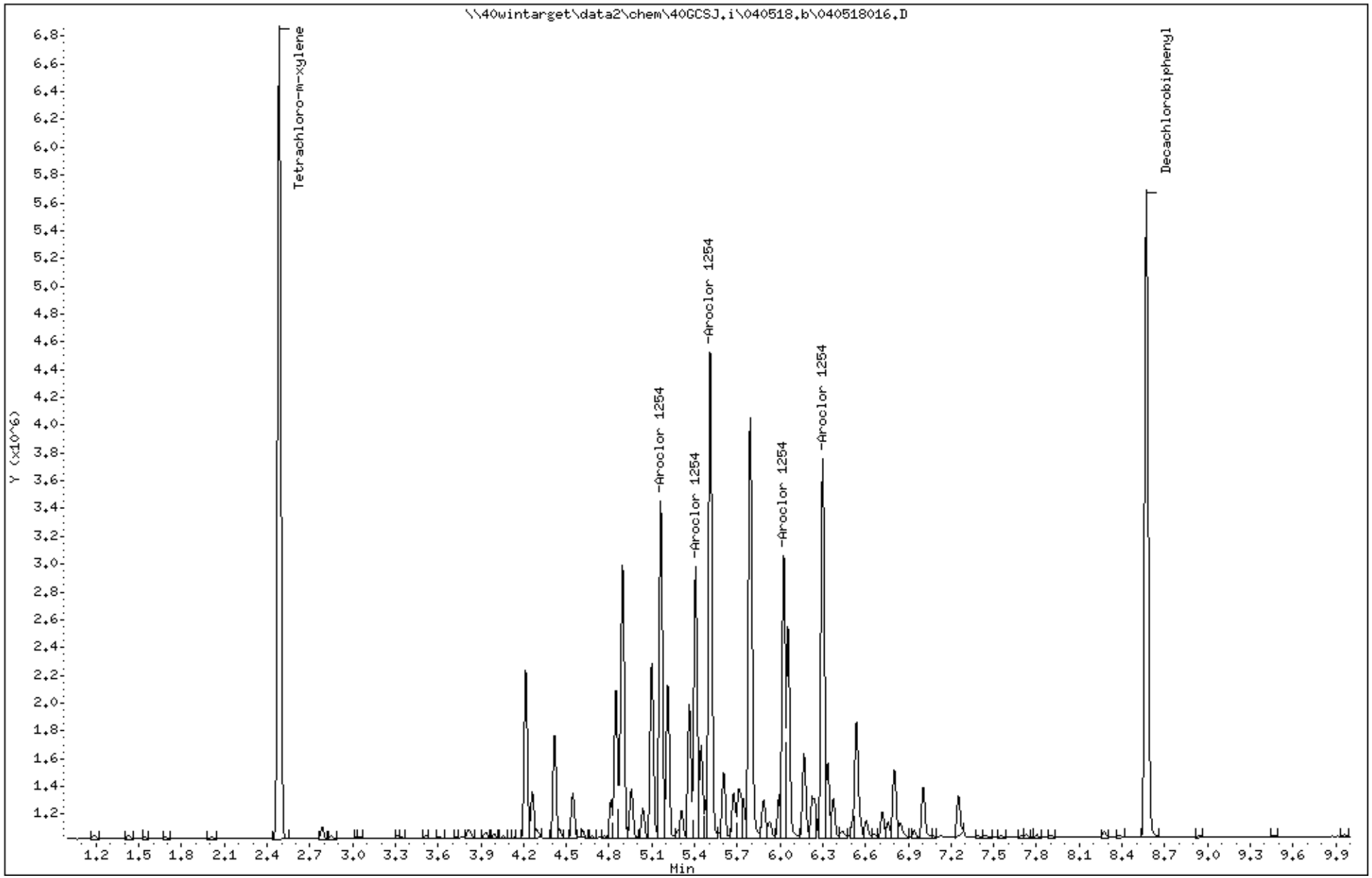
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040518.b\040518016.D
Date : 05-APR-2018 17:18
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



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

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151804

Date Extracted: 03/12/2018 07:42

Lab Sample ID: 1655661

Date Analyzed: 03/13/2018 14:50

Lab File ID: 031318.B\031318006.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\031318.b\031318006.D
Lab Smp Id: 1655661 Client Smp ID: MB
Inj Date : 13-MAR-2018 14:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655661,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	14983	13696	0.914	0.08		
1.428	13915	10443	0.750	0.07		
1.540	12689	9107	0.718	0.06		
2.011	11512	8184	0.711	0.06		
2.484	8963759	8758350	0.977	48.60	$ 2 Tetrachloro-m-xylene	
2.785	16109	15841	0.983	0.08		
2.861	20012	15272	0.763	0.10		
6.445	11005	7697	0.699	0.05		
7.123	20596	15757	0.765	0.11		
7.689	10803	11523	1.067	0.05		
7.727	51054	42336	0.829	0.27		
7.778	9569	9201	0.962	0.05		
7.800	41503	32244	0.777	0.22		
8.275	87389	71886	0.823	0.47		
8.378	19258	14526	0.754	0.10		
8.570	9095946	7799740	0.857	49.41	$ 12 Decachlorobiphenyl	
8.942	16917	10192	0.602	0.09		
9.463	10126	7844	0.775	0.05		
9.964	16090	12348	0.767	0.08		
	18443237	16866187		100.000		

Total unknown % area = 2.0

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318006.D
Lab Smp Id: 1655661 Client Smp ID: MB
Inj Date : 13-MAR-2018 14:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655661,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	8963758	0.07270	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).

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

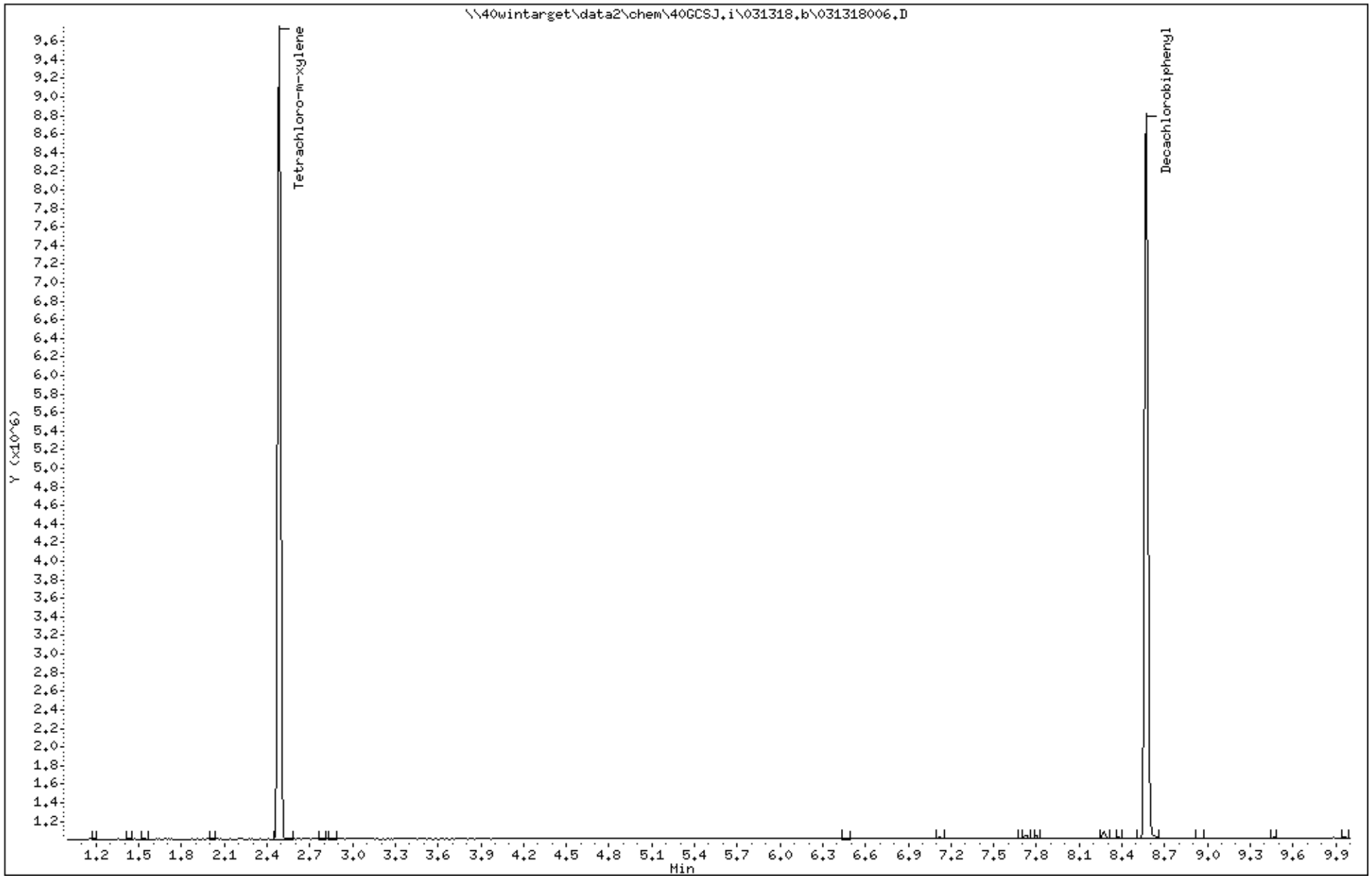
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9095946	0.08302	42			

Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318006.D
Date : 13-MAR-2018 14:50
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1655661,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 14:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1655661

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	8963758	8963758	
Decachlorobiphenyl	9095946	9095946	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151804

Date Extracted: 03/12/2018 07:42

Lab Sample ID: 1655662

Date Analyzed: 03/13/2018 15:05

Lab File ID: 031318.B\031318007.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)	212	
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\031318.b\031318007.D
Lab Smp Id: 1655662 Client Smp ID: MBLCS
Inj Date : 13-MAR-2018 15:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655662,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	19401	16917	0.872	0.04		
1.426	12365	11403	0.922	0.03		
1.535	14196	8107	0.571	0.03		
1.805	22348	12680	0.567	0.05		
2.406	108102	82068	0.759	0.27		
2.485	8493218	8075538	0.951	21.27	$ 2 Tetrachloro-m-xylene	
2.687	156314	128161	0.820	0.39		
2.790	183945	177565	0.965	0.46		
2.850	820415	762840	0.930	2.05		
3.054	113141	102677	0.908	0.28		
3.275	21779	14710	0.675	0.05		
3.317	1106729	1033392	0.934	2.77	3 Aroclor 1242	BA
3.343	620375	583365	0.940	1.55		
3.434	177645	159986	0.901	0.44		
3.513	1086406	784656	0.722	2.72	3 Aroclor 1242	BA
3.646	17193	12918	0.751	0.04		
3.694	30109	30818	1.024	0.07		
3.731	280259	275971	0.985	0.70		
3.755	174390	169690	0.973	0.43		
3.826	2990868	1735712	0.580	7.49	3 Aroclor 1242	BA
3.929	1287186	1091790	0.848	3.22	3 Aroclor 1242	BA
3.994	840859	818462	0.973	2.10	3 Aroclor 1242	BA
4.058	248978	228753	0.919	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	101087	89834	0.889	0.25	
4.215	734527	706049	0.961	1.84	
4.261	692196	669619	0.967	1.73	
4.293	284423	292508	1.028	0.71	
4.310	336024	326879	0.973	0.84	
4.369	27879	19257	0.691	0.06	
4.417	973317	924199	0.950	2.43	
4.451	692398	528492	0.763	1.73	
4.545	1197332	1099274	0.918	2.99	
4.617	280846	261679	0.932	0.70	
4.679	22164	17635	0.796	0.05	
4.727	59276	51858	0.875	0.14	
4.769	64675	61097	0.945	0.16	
4.812	528392	515934	0.976	1.32	
4.848	949085	915745	0.965	2.37	
4.878	1193294	906286	0.759	2.98	
4.957	131010	108965	0.832	0.32	
5.037	966431	919835	0.952	2.42	
5.100	217315	161359	0.743	0.54	
5.161	243995	218214	0.894	0.61	
5.213	181001	161325	0.891	0.45	
5.286	16035	14127	0.881	0.04	
5.309	44130	37416	0.848	0.11	
5.362	161681	132524	0.820	0.40	
5.407	259141	221182	0.854	0.64	
5.445	156892	142430	0.908	0.39	
5.509	412088	322351	0.782	1.03	
5.604	118456	108941	0.920	0.29	
5.673	14672	12533	0.854	0.03	
5.715	30106	21614	0.718	0.07	
5.738	40119	26533	0.661	0.10	
5.792	259953	214280	0.824	0.65	
5.890	39989	26208	0.655	0.10	
6.023	242894	192155	0.791	0.60	
6.298	51661	45860	0.888	0.12	
6.535	16238	13492	0.831	0.04	
6.714	13429	10744	0.800	0.03	
6.801	12202	11321	0.928	0.03	
7.003	22046	16804	0.762	0.05	
7.123	24227	13784	0.569	0.06	
7.393	12076	9301	0.770	0.03	
7.686	11849	10184	0.859	0.02	
7.727	44027	38858	0.883	0.11	
7.776	9870	9889	1.002	0.02	
7.800	32693	31016	0.949	0.08	
8.274	82909	74720	0.901	0.20	
8.375	11899	10576	0.889	0.02	
8.570	9013608	8120658	0.901	22.90	$ 12 Decachlorobiphenyl
8.942	20551	11149	0.543	0.05	
9.467	12006	9397	0.783	0.03	
9.963	21447	12323	0.575	0.05	
	39911776	35196592		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318007.D
Lab Smp Id: 1655662 Client Smp ID: MBLCS
Inj Date : 13-MAR-2018 15:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655662,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	8493218	0.06889	34			
3 Aroclor 1242					CAS #: 53469-21-9			
3.316	3.318	-0.002	1106729	0.43689	220	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1086405	0.43111	220	0.00- 20.00	98.16	BA
3.825	3.827	-0.002	2990867	0.42027	210	0.00- 20.00	270.24	BA
3.928	3.929	-0.001	1287185	0.42320	210	0.00- 20.00	116.31	BA
3.993	3.995	-0.002	840859	0.41063	200	0.00- 20.00	75.98	BA
Average of Peak Concentrations =					210			

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	9013607	0.08227	41	

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\031318.b\031318007.D

Date : 13-MAR-2018 15:05

Client ID: MBLCS

Instrument: 40GCSJ.i

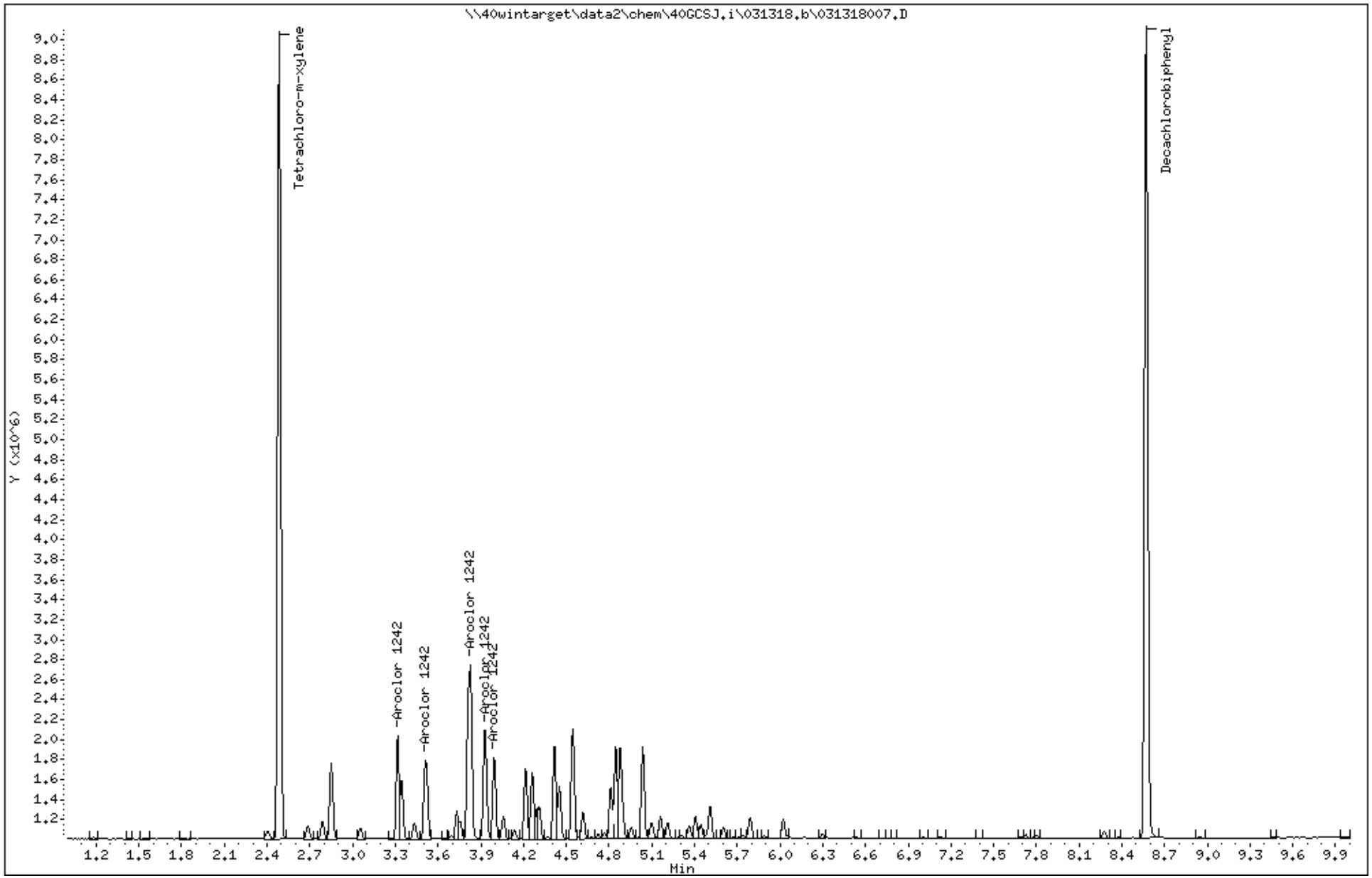
Sample Info: 1655662,

Volume Injected (uL): 1.0

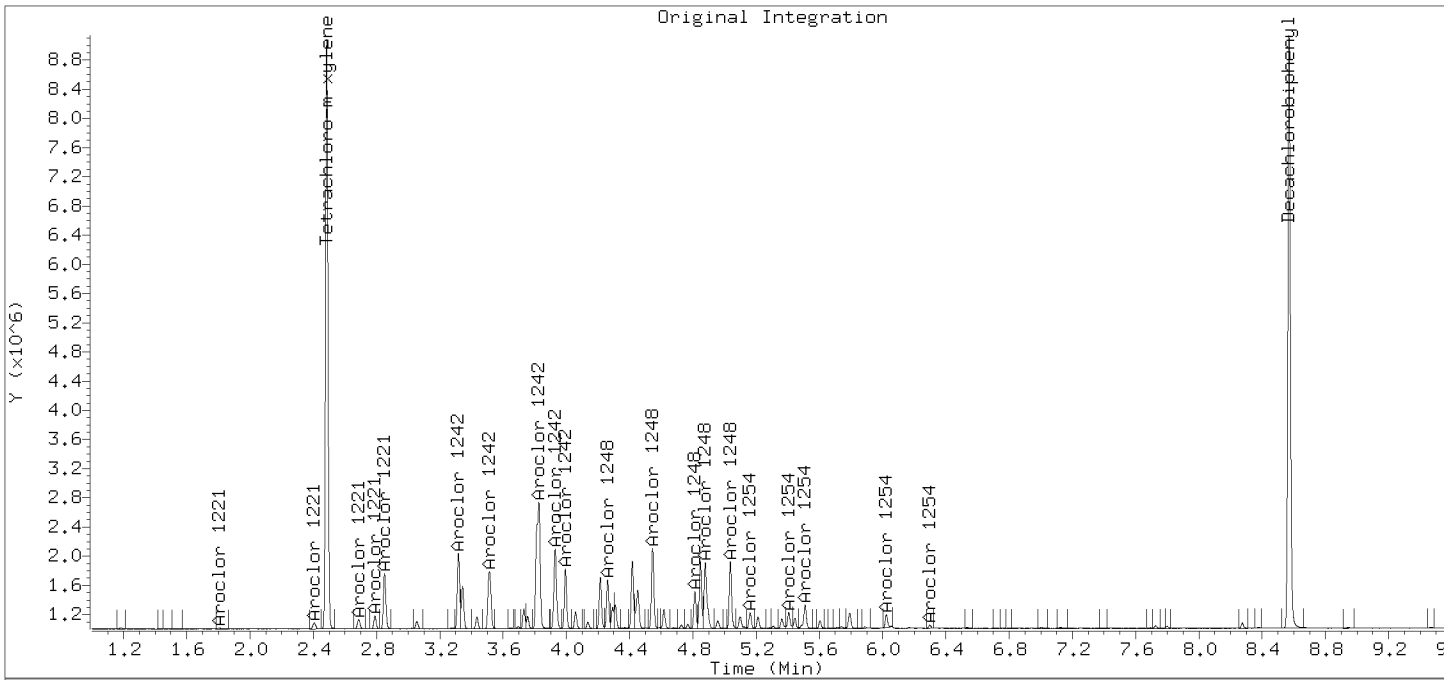
Operator: BLM

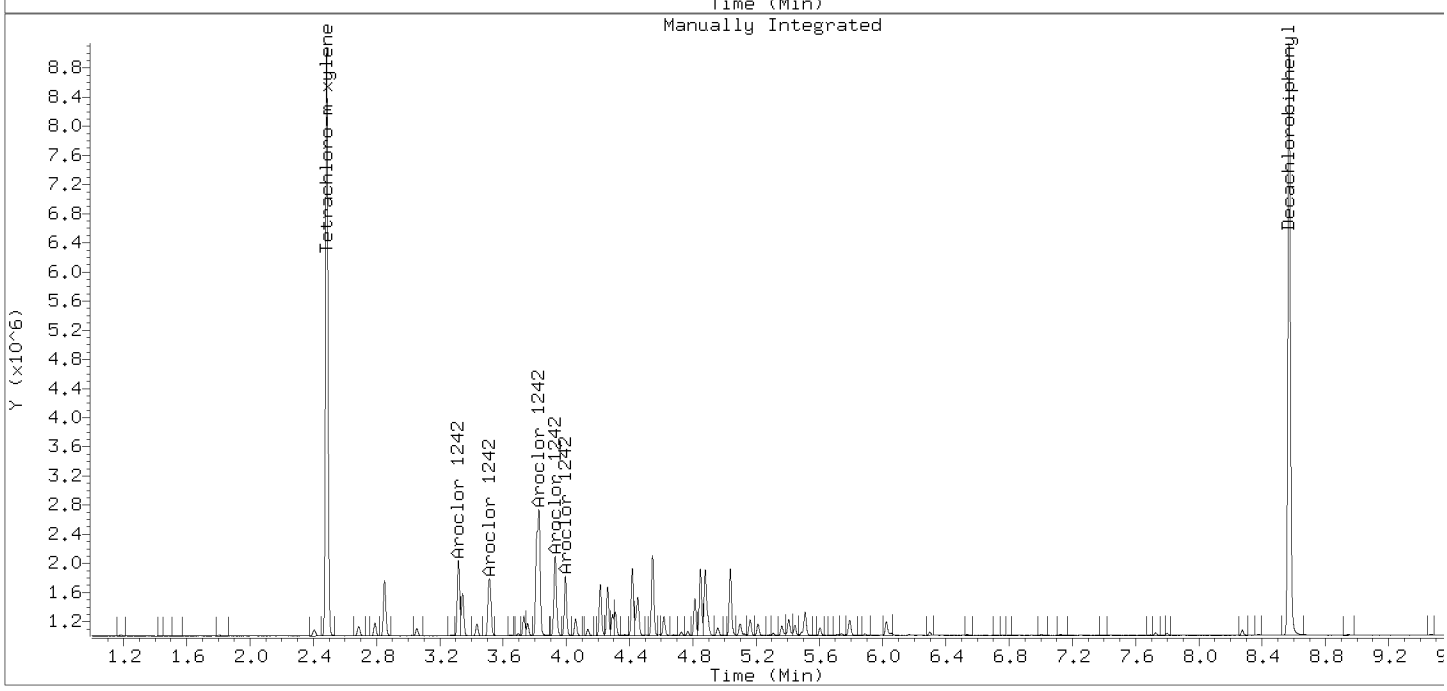
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 15:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1655662





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1232	820414	0	
Aroclor 1232	820414	0	
Aroclor 1232	820414	0	
Aroclor 1232	820414	0	

Aroclor 1232	820414	0	
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	8493218	8493218	
Decachlorobiphenyl	9013607	9013607	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/16/2017 10:05

Matrix: Tissue SDG No.: 40151804

Date Extracted: 03/12/2018 07:42

Lab Sample ID: 1655665

Date Analyzed: 03/13/2018 21:25

Lab File ID: 031318.B\031318031.D

Initial wt/vol: 9.9824 g Final wt/vol: 5 mL Dilution: 15

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<171	U
11104-28-2	PCB-1221 (Aroclor 1221)	<171	U
11141-16-5	PCB-1232 (Aroclor 1232)	<171	U
53469-21-9	PCB-1242 (Aroclor 1242)	<171	U
12672-29-6	PCB-1248 (Aroclor 1248)	2760	
11097-69-1	PCB-1254 (Aroclor 1254)	2660	
11096-82-5	PCB-1260 (Aroclor 1260)	792	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318031.D
Lab Smp Id: 1655665 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 21:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655665 x15,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31 QC Sample: FIELDDUP
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	9.982	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.408	25100	19972	0.796	0.05		
2.485	656213	627185	0.956	1.41	$ 2 Tetrachloro-m-xylene	
3.053	36602	31183	0.852	0.07		
3.316	22965	19255	0.838	0.04		
3.343	30796	26600	0.864	0.06		
3.434	69925	65709	0.940	0.15		
3.518	74192	67334	0.908	0.15		
3.646	13599	13122	0.965	0.02		
3.731	107934	78159	0.724	0.23		
3.827	329165	196030	0.596	0.70		
3.938	110440	92078	0.834	0.23		
3.993	105725	96342	0.911	0.22		
4.059	49709	45576	0.917	0.10		
4.137	13232	11421	0.863	0.02		
4.214	1042990	961782	0.922	2.24		
4.261	1119254	1080242	0.965	2.40	6 Aroclor 1248	BA
4.292	1759608	1531406	0.870	3.78		
4.346	16755	12344	0.737	0.03		
4.417	405134	385086	0.951	0.87		
4.452	374154	355185	0.949	0.80		
4.546	832169	794886	0.955	1.78	6 Aroclor 1248	BA
4.588	129857	126411	0.973	0.27		
4.617	74236	68971	0.929	0.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	133528	119363	0.894	0.28	
4.735	180099	137675	0.764	0.38	
4.768	299347	281315	0.940	0.64	
4.811	1004453	988549	0.984	2.15	6 Aroclor 1248
4.847	470492	465305	0.989	1.01	
4.878	2259782	1389333	0.615	4.85	6 Aroclor 1248
4.955	474707	419693	0.884	1.02	
5.037	782995	749564	0.957	1.68	6 Aroclor 1248
5.101	938225	836080	0.891	2.01	
5.161	1988801	1722351	0.866	4.27	7 Aroclor 1254
5.211	1791332	1601826	0.894	3.84	
5.284	171682	171812	1.001	0.36	
5.306	294408	249364	0.847	0.63	
5.362	658704	634522	0.963	1.41	
5.406	1339091	1177210	0.879	2.87	7 Aroclor 1254
5.445	979711	860037	0.878	2.10	
5.479	144845	136316	0.941	0.31	
5.509	2016697	1826715	0.906	4.33	7 Aroclor 1254
5.576	114344	107785	0.943	0.24	
5.604	282917	252109	0.891	0.60	
5.674	660844	636340	0.963	1.42	
5.710	375569	288966	0.769	0.80	
5.741	580993	430884	0.742	1.24	
5.790	3498746	2783321	0.796	7.98	
5.885	326866	255722	0.782	0.70	
5.931	263633	204742	0.777	0.56	
5.993	648869	632384	0.975	1.39	
6.024	1640444	1455710	0.887	3.52	7 Aroclor 1254
6.055	2180701	1908218	0.875	4.68	
6.168	539540	390212	0.723	1.15	
6.225	212210	230472	1.086	0.45	
6.240	305737	244039	0.798	0.65	
6.299	3140045	2610439	0.831	6.74	7 Aroclor 1254
6.333	331019	299870	0.906	0.71	
6.373	161709	140966	0.872	0.34	
6.431	312582	262730	0.841	0.67	
6.509	1014650	949184	0.935	2.18	
6.534	572202	536008	0.937	1.22	
6.560	263856	242001	0.917	0.56	
6.604	133837	111409	0.832	0.28	
6.659	65516	58266	0.889	0.14	
6.716	336575	291822	0.867	0.72	
6.758	323323	289196	0.894	0.69	
6.800	464402	417729	0.899	0.99	
6.840	181765	144946	0.797	0.39	
6.911	39408	37479	0.951	0.08	
6.943	146949	139292	0.948	0.31	
7.004	982930	903833	0.920	2.11	8 Aroclor 1260
7.035	98885	93814	0.949	0.21	
7.072	22849	20080	0.879	0.04	
7.122	37483	28261	0.754	0.08	
7.250	475224	438707	0.923	1.02	8 Aroclor 1260
7.281	150414	128402	0.854	0.32	
7.389	373623	323855	0.867	0.80	
7.441	348567	302438	0.868	0.74	8 Aroclor 1260
7.552	30463	26415	0.867	0.06	
7.689	111596	96424	0.864	0.23	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.726	65462	59944	0.916	0.14	
7.800	37652	26466	0.703	0.08	
7.900	275854	242082	0.878	0.59	8 Aroclor 1260
7.962	33241	22086	0.664	0.07	
8.048	23394	16189	0.692	0.05	
8.163	10028	8174	0.815	0.02	
8.274	170800	154213	0.903	0.36	
8.380	13016	9280	0.713	0.02	
8.449	9425	6502	0.690	0.02	
8.570	776382	705808	0.909	1.66	$ 12 Decachlorobiphenyl
9.170	21260	15335	0.721	0.04	
9.475	16641	10162	0.611	0.03	
	46533091	40464020		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318031.D
Lab Smp Id: 1655665 Client Smp ID: ND2-170613-01-SMB-0
Inj Date : 13-MAR-2018 21:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655665 x15,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31 QC Sample: FIELDDUP
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	9.982	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	656213	0.00532	40			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

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	1119253	0.47771	3600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	832169	0.20051	1500	0.00- 20.00	74.35	BA
4.811	4.812	-0.001	1004453	0.49478	3700	0.00- 20.00	89.74	BA
4.877	4.879	-0.002	2259781	0.44860	3400	0.00- 20.00	201.90	BA
5.036	5.038	-0.002	782994	0.21819	1600	0.00- 20.00	69.96	BA
Average of Peak Concentrations =					2800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1988800	0.37989	2800	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1339090	0.31134	2300	0.00- 20.00	67.33	BA
5.508	5.510	-0.002	2016697	0.25968	2000	0.00- 20.00	101.40	BA
6.023	6.027	-0.004	1640443	0.33687	2500	0.00- 20.00	82.48	BA
6.298	6.299	-0.001	3140045	0.48256	3600	0.00- 20.00	157.89	BA
Average of Peak Concentrations =					2700			
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	982930	0.09815	740	0.00- 20.00	31.30	BA
7.249	7.251	-0.002	475223	0.09942	750	0.00- 20.00	15.13	BA
7.441	7.443	-0.002	348567	0.11957	900	0.00- 20.00	11.10	BA
7.899	7.901	-0.002	275853	0.10454	780	0.00- 20.00	8.79	BA
Average of Peak Concentrations =					790			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	776382	0.00709	53			

QC Flag Legend

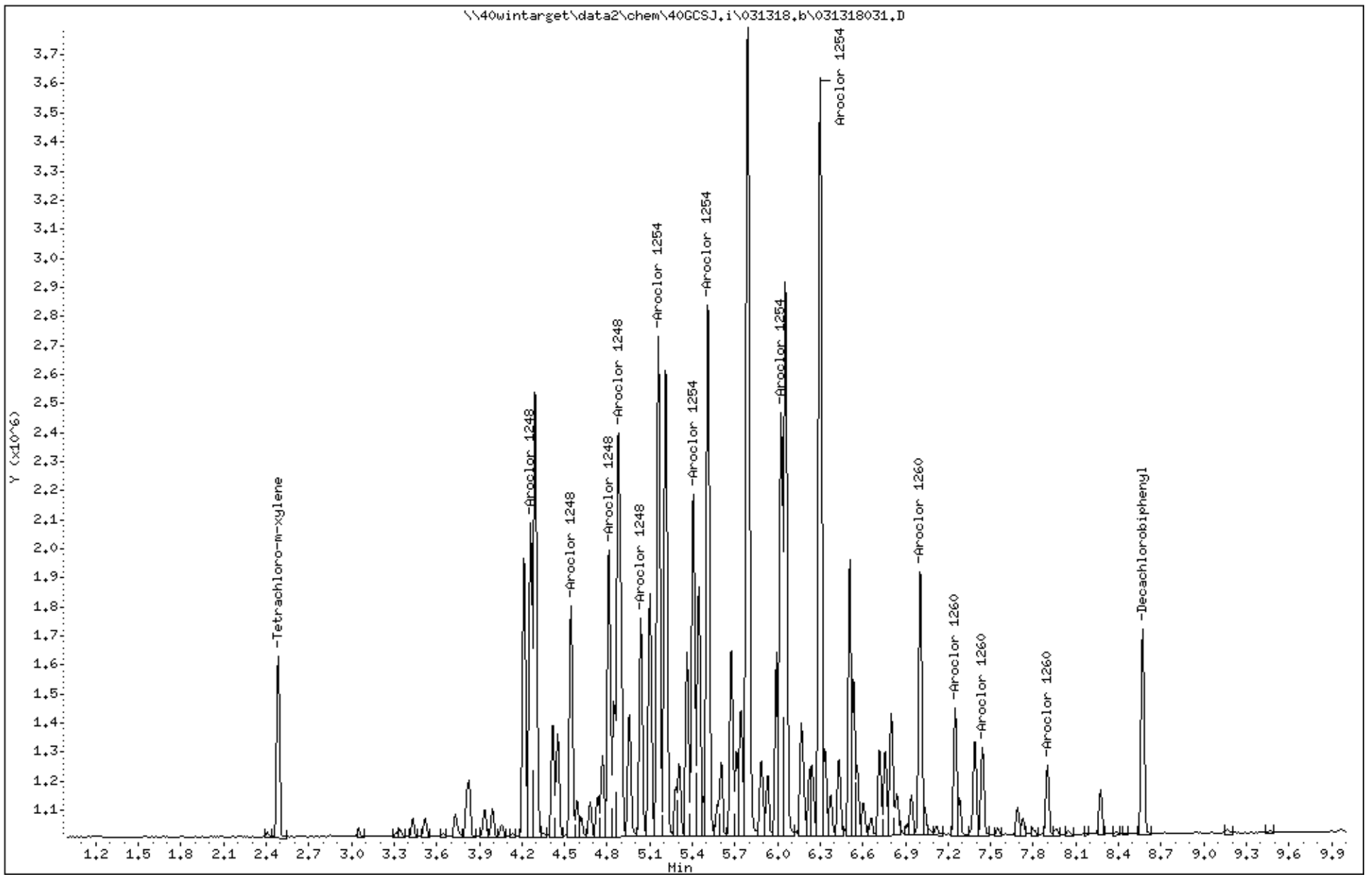
M - Compound response manually integrated.

Review Codes Legend

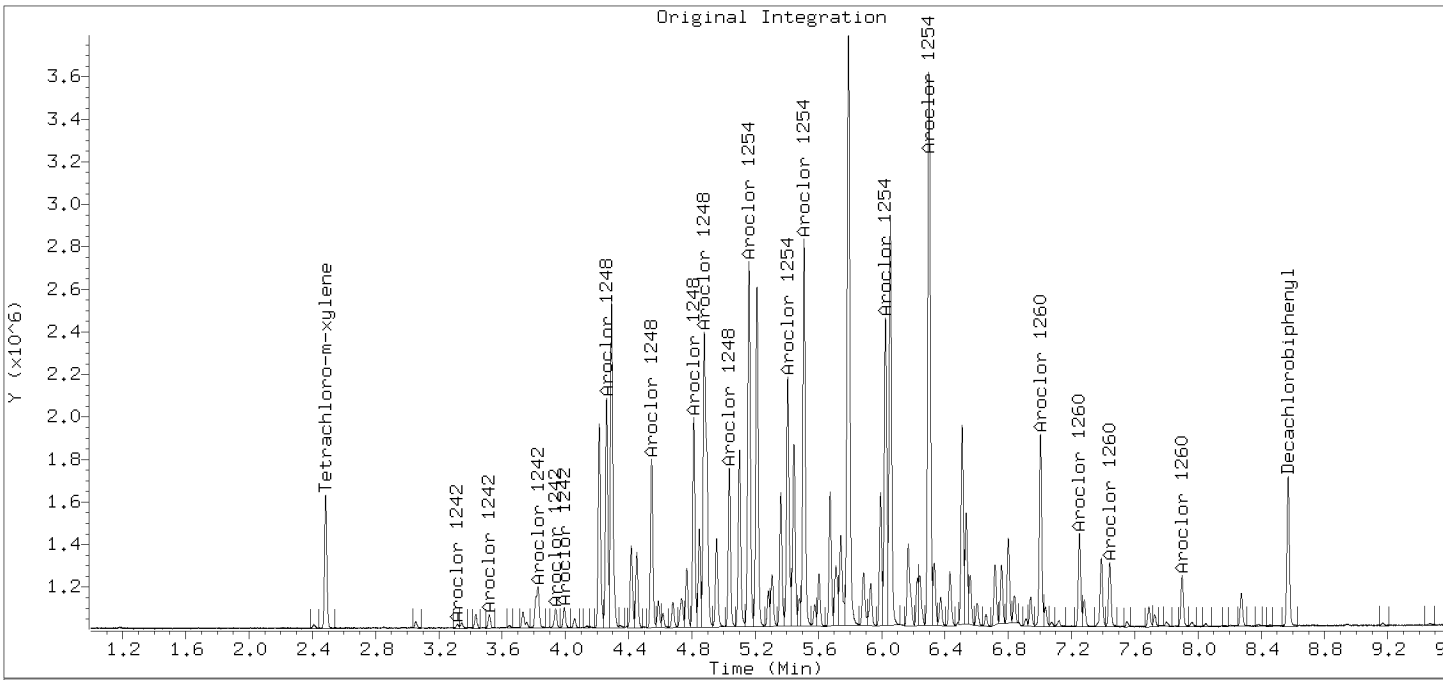
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

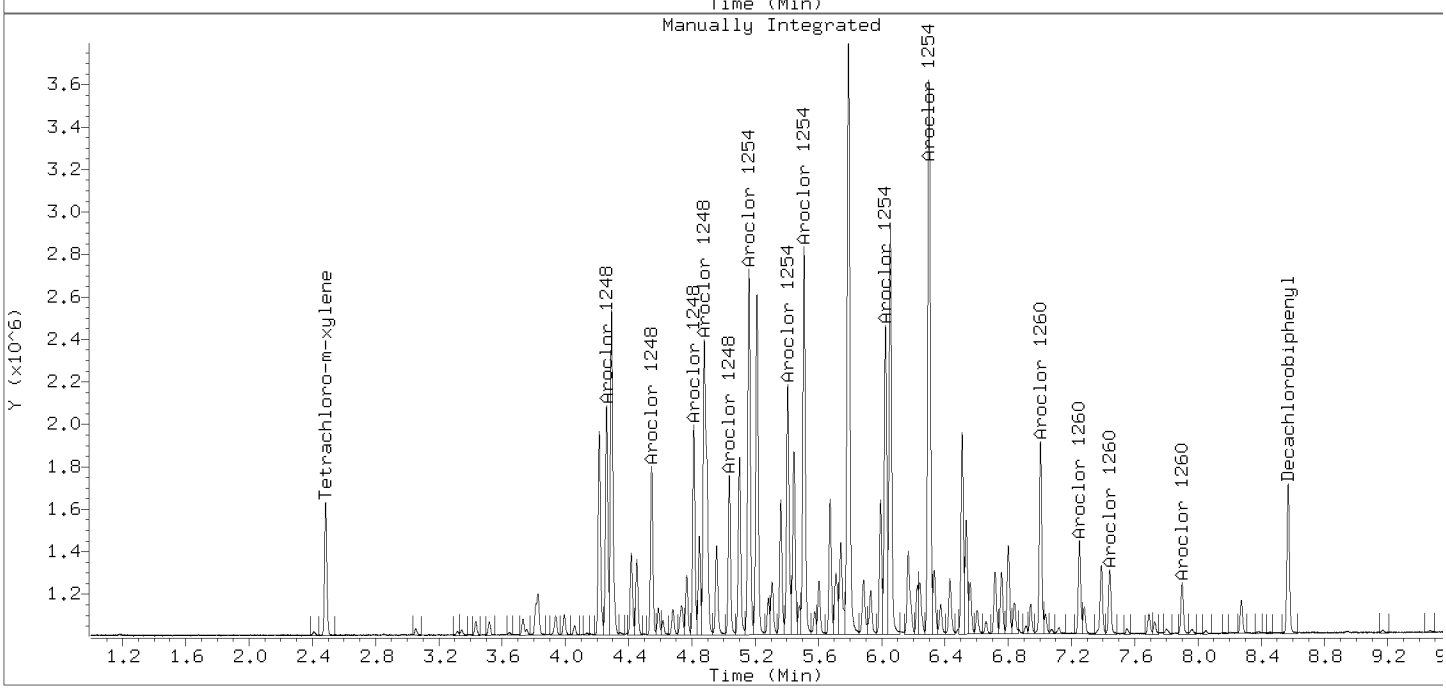
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318031.D
Date : 13-MAR-2018 21:25
Client ID: ND2-170613-01-SMB-0
Sample Info: 1655665 x15,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 21:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1655665





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	22964	0	
Aroclor 1016	22964	0	
Aroclor 1016	22964	0	
Aroclor 1016	22964	0	
Aroclor 1016	22964	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	22964	0	
Aroclor 1242	22964	0	
Aroclor 1242	22964	0	
Aroclor 1242	22964	0	
Aroclor 1242	22964	0	
Aroclor 1248	1115941	1119253	BA
Aroclor 1248	1115941	1119253	BA
Aroclor 1248	1115941	1119253	BA
Aroclor 1248	1115941	1119253	BA
Aroclor 1248	1115941	1119253	BA
Aroclor 1254	1973467	1988800	BA
Aroclor 1254	1973467	1988800	BA
Aroclor 1254	1973467	1988800	BA
Aroclor 1254	1973467	1988800	BA
Aroclor 1254	1973467	1988800	BA
Aroclor 1260	3113829	0	BA
Aroclor 1260	3113829	0	BA
Aroclor 1260	3113829	0	BA
Aroclor 1260	3113829	0	BA
Aroclor 1260	3113829	0	BA
Tetrachloro-m-xylene	656213	656213	
Decachlorobiphenyl	776382	776382	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151804

Date Extracted: 03/22/2018 07:22

Lab Sample ID: 1662163

Date Analyzed: 03/23/2018 13:57

Lab File ID: 032318.B\032318006.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 1.6

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

2.484	2.484	0.000	9488272	0.07696	38			

---

3 Aroclor 1242 CAS #: 53469-21-9

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

---

4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9964294	0.09095		45		

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

Date : 23-MAR-2018 13:57

Client ID: MB

Instrument: 40GCSJ.i

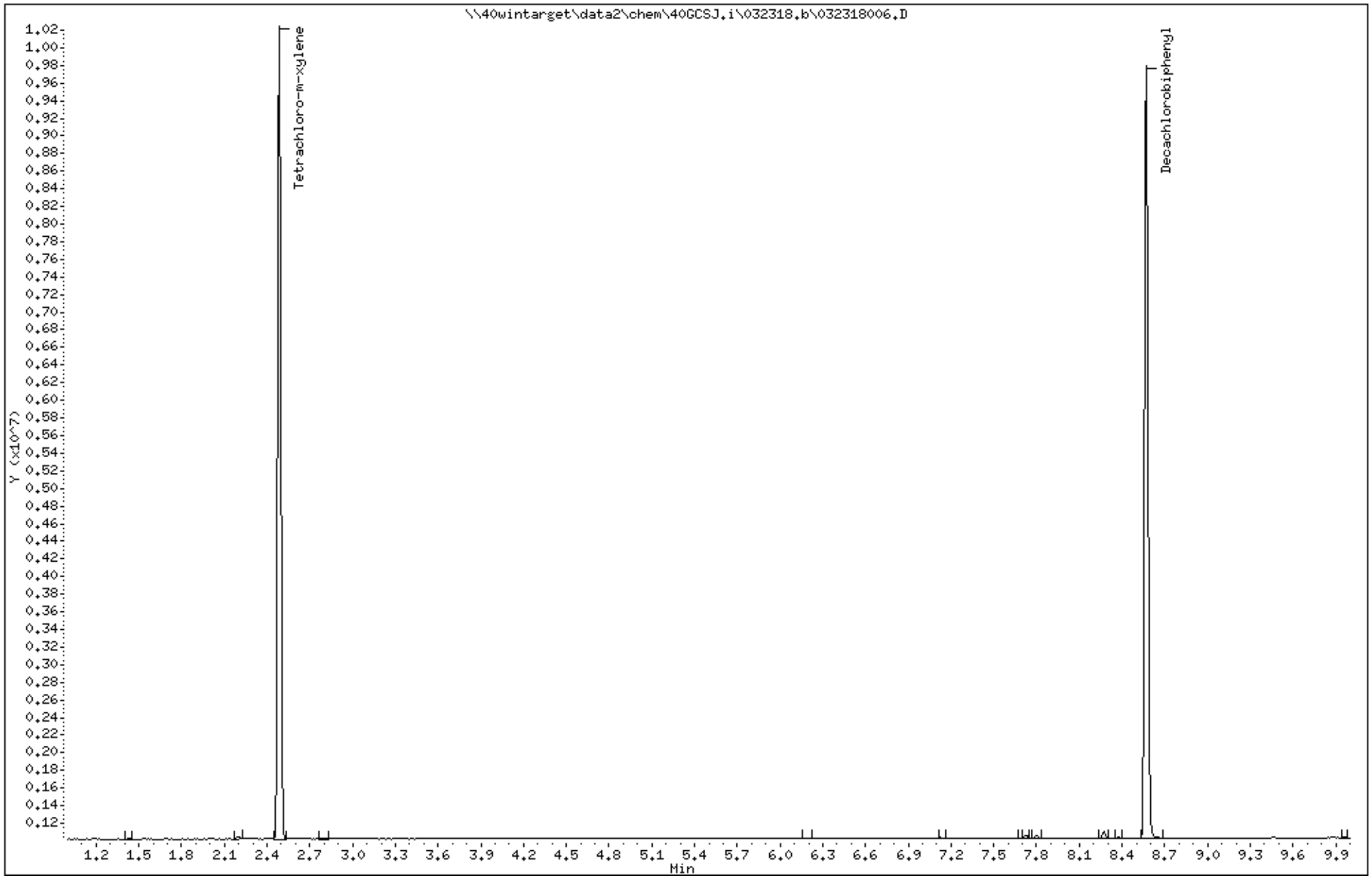
Sample Info: 1662163,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9488272	9488272	
Decachlorobiphenyl	9964294	9964294	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151804

Date Extracted: 03/22/2018 07:22

Lab Sample ID: 1662164

Date Analyzed: 03/23/2018 14:13

Lab File ID: 032318.B\032318007.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	240	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

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

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

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9967952	0.09098	45

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 23-MAR-2018 14:13

Client ID: MBLCS

Instrument: 40GCSJ.i

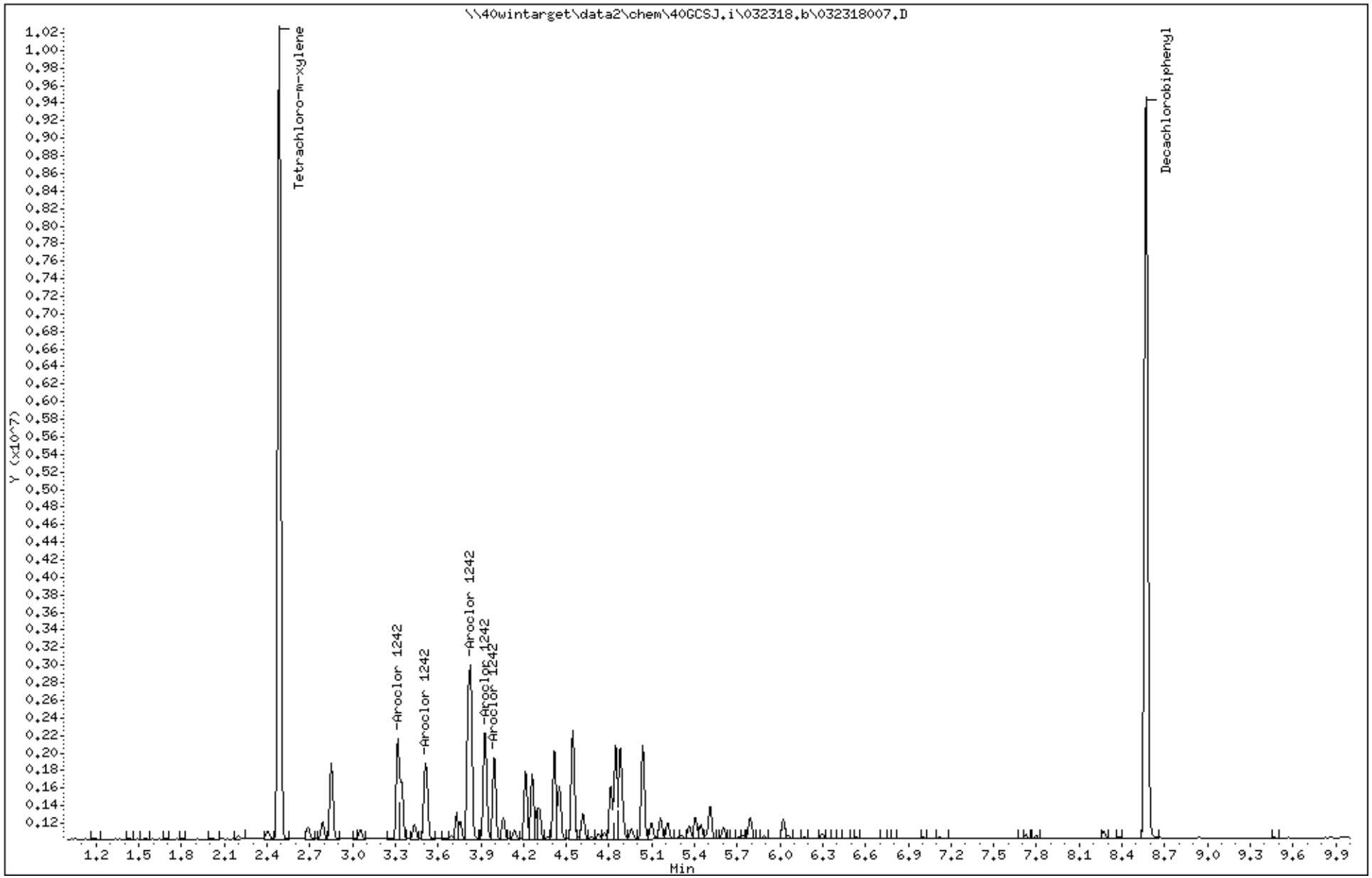
Sample Info: 1662164,

Volume Injected (uL): 1.0

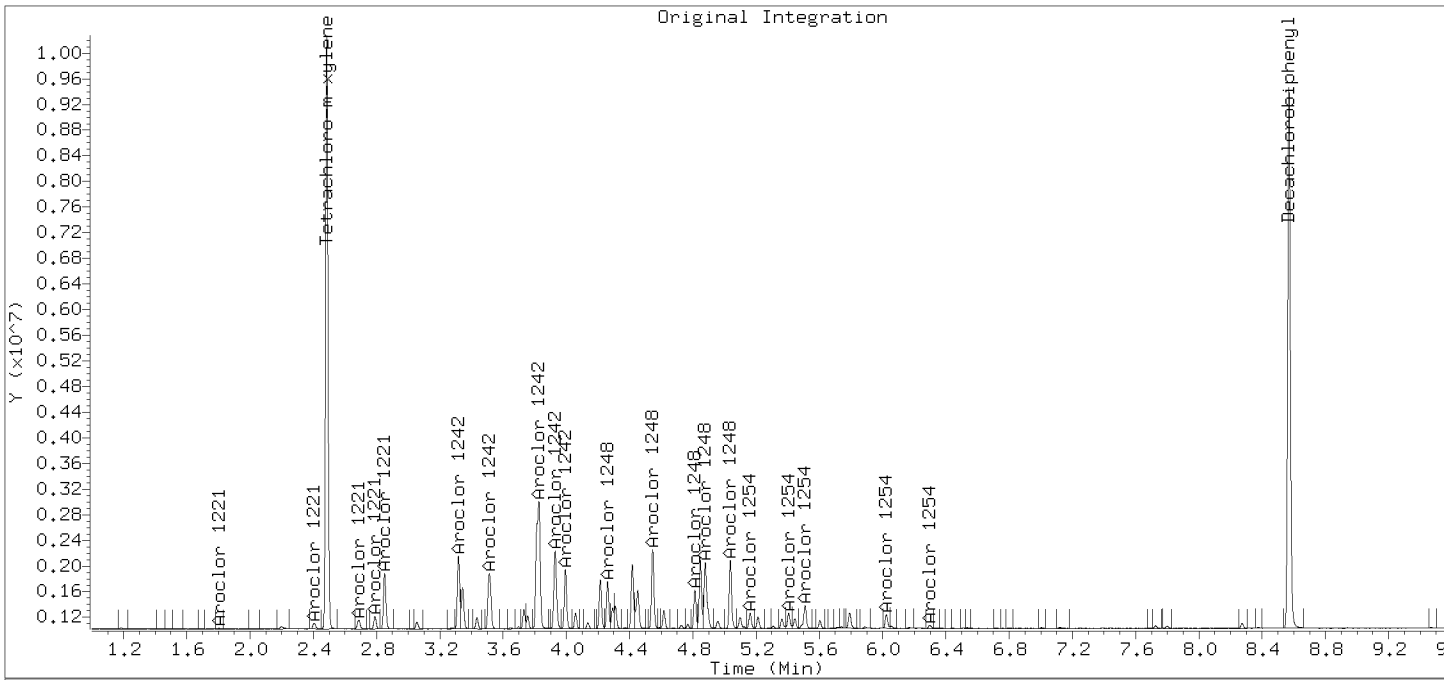
Operator: BLM

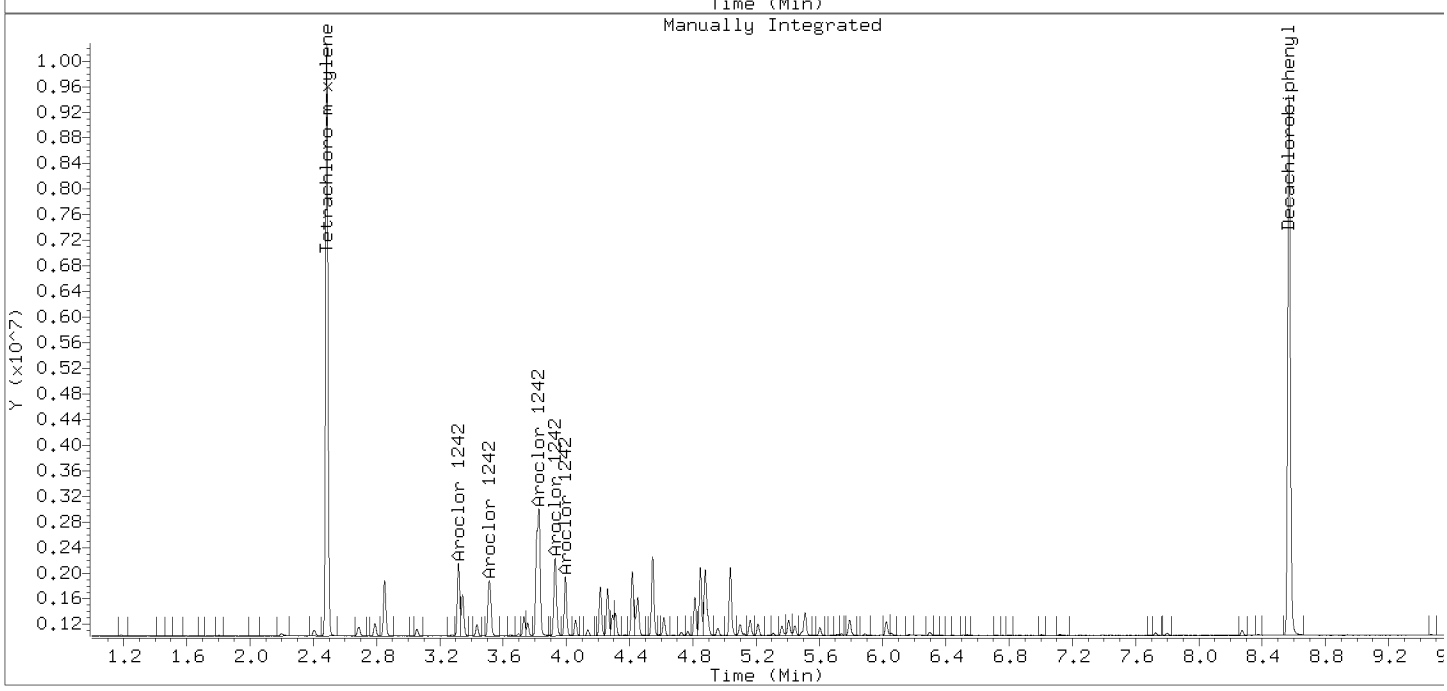
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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

==========

Prep Log Report

Batch Information: OEXT 282598 PCB-B 2

Template Version: F-GB-O-113-Rev.03 (19Feb2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/12/2018 07:42:08:001
Spiked By	AMC	Spiked By Date/Time	03/12/2018 07:42:09:160	Witnessed By	ETB	Witnessed By Date/Time	03/12/2018 07:42:09:160
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane	188917	Sodium Sulfate	188340	Florisil	186910	3620B Date/Initials	03/13/18 AMC
H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/13/18 AMC	Tuna	None Added	Reviewed By	BLM
Reviewed By Date	03/23/2018 13:52	Batch Notes	Hex/Ace 50:50-191186, Bacth was re-extracted under the same batch number.				

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	**1655661**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1655662**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40150295019**	10.012	5	3		189973 (.25)	
8082A TNYP	MS	**1655663**	10.0094	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1655664**	10.0106	5	3		189973 (.25)	
8082A TNYP	PS	**40150295020**	9.9616	5	3		189973 (.25)	
8082A TNYP	PS	**40151597002**	10.0054	5	3		189973 (.25)	
8082A TNYP	PS	**40151597003**	9.9731	5	3		189973 (.25)	
8082A TNYP	PS	**40151601002**	9.9928	5	3		189973 (.25)	
8082A TNYP	PS	**40151608001**	9.9824	5	3		189973 (.25)	
8082A TNYP	PS	**40151608002**	10.0008	5	3		189973 (.25)	
8082A TNYP	PS	**40151608011**	10.0021	5	3		189973 (.25)	
8082A TNYP	PS	**40151800006**	10.0226	5	3		189973 (.25)	
8082A TNYP	PS	**40151800007**	10.0192	5	3		189973 (.25)	
8082A TNYP	PS	**40151800008**	9.98	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	**40151800009**	10.0226	5	3		189973 (.25)	
8082A TNYP	PS	**40151800010**	9.9707	5	3		189973 (.25)	
8082A TNYP	PS	**40151804004**	10.0181	5	3		189973 (.25)	
8082A TNYP	PS	**40151804005**	9.9782	5	3		189973 (.25)	
8082A TNYP	PS	**40151804006**	9.9895	5	3		189973 (.25)	
8082A TNYP	RQS	**40151804007**	10.0333	5	3		189973 (.25)	
8082A TNYP	DUP	**1655665**	9.9824	5	3		189973 (.25)	
8082A TNYP	PS	**40151804008**	9.9931	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 283977 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/22/2018 07:22:46:430
Spiked By	AMC	Spiked By Date/Time	03/22/2018 07:22:48:165	Witnessed By	ETB	Witnessed By Date/Time	03/22/2018 07:22:48:165
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191930	Hexane	188917	Sodium Sulfate	190952	Florisil	186910
3620B Date/Initials	03/23/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/23/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 08:42	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1662163**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1662164**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151552011**	9.9626	5	3		189973 (.25)	
8082A TNYP	PS	**40151597001**	9.9992	5	3		189973 (.25)	
8082A TNYP	PS	**40151605001**	10.0092	5	3		189973 (.25)	
8082A TNYP	PS	**40151605002**	9.9923	5	3		189973 (.25)	
8082A TNYP	PS	**40151614001**	10.0203	5	3		189973 (.25)	
8082A TNYP	PS	**40151616001**	9.9967	5	3		189973 (.25)	
8082A TNYP	PS	**40151619001**	9.9791	5	3		189973 (.25)	
8082A TNYP	RQS	**40151619002**	10.0233	5	3		189973 (.25)	
8082A TNYP	MS	**1662165**	9.9608	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1662166**	9.9773	5	3		189973 (.25)	
8082A TNYP	PS	**40151619003**	10.0185	5	3		189973 (.25)	
8082A TNYP	PS	**40151619004**	9.9887	5	3		189973 (.25)	
8082A TNYP	PS	**40151800001**	10.0159	5	3		189973 (.25)	
8082A TNYP	PS	**40151800002**	9.968	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151800003**	9.9637	5	3		189973 (.25)	
8082A TNYP	PS	**40151800004**	10.0193	5	3		189973 (.25)	
8082A TNYP	PS	**40151804001**	9.9711	5	3		189973 (.25)	
8082A TNYP	PS	**40151804002**	9.9758	5	3		189973 (.25)	
8082A TNYP	PS	**40151804003**	9.9638	5	3		189973 (.25)	
8082A TNYP	PS	**40151804009**	10.0066	5	3		189973 (.25)	
8082A TNYP	PS	**40151804010**	10.0363	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

```
    Sequence Name: C:\msdchem\1\sequence\031318.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\031318\
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  1658171MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1658172LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1658173MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1658174MSD
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40165731-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40165479-001
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40165479-002
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40165479-003
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40165479-004
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40165650-001
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40165650-002
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40165650-003P
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40165650-004
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40165696-001
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  1655661MB
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  1655662LCS
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  1655663MS x5
     Datafile          --------

   Last Modified: Tue Mar 13 12:00:34 2018                Page:  1
```

GE BIOTA

BLM 3/15/18

Continued on Page 10

Read and Understood By

Signed 3/15/18 Date Signed 3/15/18 Date

	Method		SCREEN2014	
20)	Sample	20	40150295-019	x5
	Datafile		--------	
	Method		SCREEN2014	
21)	RearSamp	21	1655664DUP	x5
	Datafile		--------	
	Method		SCREEN2014	
22)	Sample	22	40150295-020	—
	Datafile		--------	
	Method		SCREEN2014	
23)	RearSamp	23	40151597-002	—
	Datafile		--------	
	Method		SCREEN2014	
24)	Sample	24	40151597-003	—
	Datafile		--------	
	Method		SCREEN2014	
25)	RearSamp	25	40151601-002	—
	Datafile		--------	
	Method		SCREEN2014	
26)	Sample	26	40151608-001	x2
	Datafile		--------	
	Method		SCREEN2014	
27)	RearSamp	27	40151608-002	—
	Datafile		--------	
	Method		SCREEN2014	
28)	Sample	28	40151608-011	—
	Datafile		--------	
	Method		SCREEN2014	
29)	RearSamp	29	40151800-006	x3
	Datafile		--------	
	Method		SCREEN2014	
30)	Sample	30	40151800-007	x3
	Datafile		--------	
	Method		SCREEN2014	
31)	RearSamp	31	40151800-008	x3
	Datafile		--------	
	Method		SCREEN2014	
32)	Sample	32	40151800-009	x3
	Datafile		--------	
	Method		SCREEN2014	
33)	RearSamp	33	40151800-010	x3
	Datafile		--------	
	Method		SCREEN2014	
34)	Sample	34	40151804-004	x3
	Datafile		--------	
	Method		SCREEN2014	
35)	RearSamp	35	40151804-005	—
	Datafile		--------	
	Method		SCREEN2014	
36)	Sample	36	40151804-006	x3
	Datafile		--------	
	Method		SCREEN2014	
37)	RearSamp	37	40151804-007	x15
	Datafile		--------	
	Method		SCREEN2014	
38)	Sample	38	1655665DUP	x15
	Datafile		--------	
	Method		SCREEN2014	
39)	RearSamp	39	40151804-008	x3
	Datafile		--------	
	Method		SCREEN2014	
40)	Sample	40	HEXANE	
	Datafile		--------	
	Method		SCREEN2014	

Last Modified: Tue Mar 13 12:00:34 2018

Page: 2

BLM 3/15/18

Continued on Page —

Read and Understood By

Signed 3/15/18 Date

Signed 3/15/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\032318.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\032318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1662163MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1662164LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1662165MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151552-011
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40151597-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151605-001
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40151605-002
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151614-001
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151616-001
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151619-001
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151619-002P
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  1662166DUP
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151619-003
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151619-004
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151800-001
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151800-002
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151800-003
     Datafile          --------

   Last Modified: Fri Mar 23 10:49:33 2018                Page:  1
```

GE BIOTA

BLM 3/23/18

~~x3~~ x4

x2

x2

BLM 3/26/18

Continued on Page 26

Read and Understood By

Signed 3/26/18 Date

Signed 3/26/18 Date

```
      Method              SCREEN2014
20) Sample          20    40151800-004 —
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21    40151804-001 x3
      Datafile            --------
      Method              SCREEN2014
22) Sample          22    40151804-002 ~~x2~~ — BLM 3/23/18
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23    40151804-003 x2
      Datafile            --------
      Method              SCREEN2014
24) Sample          24    40151804-009 x3
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25    40151804-010 x5
      Datafile            --------
      Method              SCREEN2014
26) Sample          26    HEXANE
      Datafile            --------
      Method              SCREEN2014
```

Last Modified: Fri Mar 23 10:49:33 2018 Page: 2

BLM 3/26/18

Continued on Page —

Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\030618.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

   Last Modified: Tue Mar 06 10:58:59 2018                Page:  1
```

BLM 3/7/18

Continued on Page 5

Read and Understood By

Bryan Mayl — Signed — 3/7/18 — Date

Signed — 3/7/18 — Date

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

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

BLM 3/7/18

Continued on Page 6

Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

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

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

Last Modified: Tue Mar 06 10:58:59 2018

Page: 3

BLM 3/7/18

Continued on Page 7

Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date — Signed — 3/7/18 Date

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

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

BLM 3/7/18

Continued on Page —

Read and Understood By

Signed: [signature] Date: 3/7/18

Signed: [signature] Date: 3/7/18

```
   Sequence Name: C:\msdchem\1\sequence\031318.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\031318\
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          031318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          031318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          031318003
     Method            GEBIOTA2017
 4) Sample          4  1242-CCV,185544:1,17498,AR124 OK
     Datafile          031318004
     Method            GEBIOTA2017
 5) Sample          5  1242-CCV,185544:1,17498,AR124 OK
     Datafile          031318005
     Method            GEBIOTA2017
 6) Sample          6  1655661,,17521,BIOTA
     Datafile          031318006
     Method            GEBIOTA2017
 7) Sample          7  1655662,,17521,BIOTA
     Datafile          031318007
     Method            GEBIOTA2017
 8) Sample          8  1655663 x5,,17521,BIOTA
     Datafile          031318008
     Method            GEBIOTA2017
 9) Sample          9  40150295019 x5,,17521,BIOTA
     Datafile          031318009
     Method            GEBIOTA2017
10) Sample         10  1655664 x5,,17521,BIOTA
     Datafile          031318010
     Method            GEBIOTA2017
11) Sample         11  40150295020,,17521,BIOTA
     Datafile          031318011
     Method            GEBIOTA2017
12) Sample         12  40151597002,,17521,BIOTA RS
     Datafile          031318012
     Method            GEBIOTA2017
13) Sample         13  40151597003,,17521,BIOTA
     Datafile          031318013
     Method            GEBIOTA2017
14) Sample         14  40151601002,,17521,BIOTA
     Datafile          031318014
     Method            GEBIOTA2017
15) Sample         15  40151608001 x2,,17521,BIOTA
     Datafile          031318015
     Method            GEBIOTA2017
16) Sample         16  1248-CCV,185549:1,17498,AR124 OK
     Datafile          031318016
     Method            GEBIOTA2017
17) Sample         17  1248-CCV,185549:1,17498,AR124 OK
     Datafile          031318017
     Method            GEBIOTA2017
18) Sample         18  40151608002,,17521,BIOTA
     Datafile          031318018
     Method            GEBIOTA2017
19) Sample         19  40151608011,,17521,BIOTA RS
     Datafile          031318019

   Last Modified: Tue Mar 13 13:26:45 2018                Page:  1
```

BLM 3/14/18

Continued on Page 15

Read and Understood By

Signed 3/14/18 Date Signed 3/14/18 Date

```
      Method          GEBIOTA2017
20) Sample      20  40151800006 x3,,17521,BIOTA
     Datafile       031318020
      Method        GEBIOTA2017
21) Sample      21  40151800007 x3,,17521,BIOTA
     Datafile       031318021
      Method        GEBIOTA2017
22) Sample      22  40151800008 x3,,17521,BIOTA
     Datafile       031318022
      Method        GEBIOTA2017
23) Sample      23  40151800009 x3,,17521,BIOTA
     Datafile       031318023
      Method        GEBIOTA2017
24) Sample      24  40151800010 x3,,17521,BIOTA RS
     Datafile       031318024
      Method        GEBIOTA2017
25) Sample      25  40151804004 x3,,17521,BIOTA
     Datafile       031318025
      Method        GEBIOTA2017
26) Sample      26  40151804005,,17521,BIOTA RS
     Datafile       031318026
      Method        GEBIOTA2017
27) Sample      27  40151804006 x3,,17521,BIOTA
     Datafile       031318027
      Method        GEBIOTA2017
28) Sample      28  1254-CCV,185554:1,17498,AR125 OK
     Datafile       031318028
      Method        GEBIOTA2017
29) Sample      29  1254-CCV,185554:1,17498,AR125 OK
     Datafile       031318029
      Method        GEBIOTA2017
30) Sample      30  40151804007 x15,,17521,BIOTA
     Datafile       031318030
      Method        GEBIOTA2017
31) Sample      31  1655665 x15,,17521,BIOTA
     Datafile       031318031
      Method        GEBIOTA2017
32) Sample      32  40151804008 x3,,17521,BIOTA
     Datafile       031318032
      Method        GEBIOTA2017
33) Sample      33  1660-CCV,185559:1,17498,AR166 OK
     Datafile       031318033
      Method        GEBIOTA2017
34) Sample      34  1660-CCV,185559:1,17498,AR166 OK
     Datafile       031318034
      Method        GEBIOTA2017
35) Sample      35  1656929,,17518,BIOTA
     Datafile       031318035
      Method        GEBIOTA2017
36) Sample      36  1656930,,17518,BIOTA
     Datafile       031318036
      Method        GEBIOTA2017
37) Sample      37  1656931,,17518,BIOTA
     Datafile       031318037
      Method        GEBIOTA2017
38) Sample      38  1656932,,17518,BIOTA
     Datafile       031318038
      Method        GEBIOTA2017
39) Sample      39  1656933,,17518,BIOTA
     Datafile       031318039
      Method        GEBIOTA2017
40) Sample      40  1656934,,17518,BIOTA
     Datafile       031318040
      Method        GEBIOTA2017
41) Sample      41  1656935,,17518,BIOTA
     Datafile       031318041
      Method        GEBIOTA2017
42) Sample      42  1656936,,17518,BIOTA
     Datafile       031318042
      Method        GEBIOTA2017
43) Sample      43  1656937,,17518,BIOTA
     Datafile       031318043

   Last Modified: Tue Mar 13 13:26:45 2018                Page:  2
```

BLM 3/14/18

Continued on Page 16

Read and Understood By

Signed 3/14/18 Date Signed 3/14/18 Date

Sequence Name: C:\msdchem\1\sequence\031318.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	1656938,,17518,BIOTA		
	Datafile		031318044		
	Method			GEBIOTA2017	
45)	Sample	45	1221-CCV,185538:1,17498,AR122		ok
	Datafile		031318045		
	Method			GEBIOTA2017	
46)	Sample	46	1221-CCV,185538:1,17498,AR122		ok
	Datafile		031318046		
	Method			GEBIOTA2017	
47)	Sample	47	1656939,,17518,BIOTA		
	Datafile		031318047		
	Method			GEBIOTA2017	
48)	Sample	48	1656940,,17518,BIOTA		
	Datafile		031318048		
	Method			GEBIOTA2017	
49)	Sample	49	1656941,,17518,BIOTA		
	Datafile		031318049		
	Method			GEBIOTA2017	
50)	Sample	50	1656942,,17518,BIOTA		
	Datafile		031318050		
	Method			GEBIOTA2017	
51)	Sample	51	1656943,,17518,BIOTA		
	Datafile		031318051		
	Method			GEBIOTA2017	
52)	Sample	52	1656944,,17518,BIOTA		
	Datafile		031318052		
	Method			GEBIOTA2017	
53)	Sample	53	1656945,,17518,BIOTA		
	Datafile		031318053		
	Method			GEBIOTA2017	
54)	Sample	54	1232-CCV,185539:1,17498,AR123		ok
	Datafile		031318054		
	Method			GEBIOTA2017	
55)	Sample	55	1232-CCV,185539:1,17498,AR123		ok
	Datafile		031318055		
	Method			GEBIOTA2017	

Screener run on 40GCSI 03/13/18
BLK 3/23/18

Last Modified: Tue Mar 13 13:26:45 2018 Page: 4

BLK 3/14/18

Continued on Page —

Read and Understood By

Signed 3/14/18 Date Signed 3/14/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\032018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\032018\
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          032018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018005
     Method            GEBIOTA2017
 6) Sample          6  40150294010 x2,,17511,BIOTA
     Datafile          032018006
     Method            GEBIOTA2017
 7) Sample          7  40151597002 x2,,17521,BIOTA
     Datafile          032018007
     Method            GEBIOTA2017
 8) Sample          8  40151608011 x2,,17521,BIOTA
     Datafile          032018008
     Method            GEBIOTA2017
 9) Sample          9  40151800010 x4,,17521,BIOTA
     Datafile          032018009
     Method            GEBIOTA2017
10) Sample         10  40151804005 x2,,17521,BIOTA
     Datafile          032018010
     Method            GEBIOTA2017
11) Sample         11  40151549003 x2,,17523,BIOTA
     Datafile          032018011
     Method            GEBIOTA2017
12) Sample         12  40151549004 x2,,17523,BIOTA
     Datafile          032018012
     Method            GEBIOTA2017
13) Sample         13  40150340003 x4,,17527,BIOTA
     Datafile          032018013
     Method            GEBIOTA2017
14) Sample         14  40150340004 x20,,17527,BIOTA
     Datafile          032018014
     Method            GEBIOTA2017
15) Sample         15  40150340013 x2,,17527,BIOTA
     Datafile          032018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018017
     Method            GEBIOTA2017
18) Sample         18  40150340014 x10,,17527,BIOTA
     Datafile          032018018
     Method            GEBIOTA2017
19) Sample         19  40150340015 x2,,17527,BIOTA
     Datafile          032018019

   Last Modified: Tue Mar 20 12:25:04 2018                Page:  1
```

BLM 3/26/18

Continued on Page 24

Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
      Method                GEBIOTA2017
20) Sample          20  40150340020 x4,,17527,BIOTA
      Datafile              032018020
      Method                GEBIOTA2017
21) Sample          21  40151608004 x3,,17532,BIOTA
      Datafile              032018021
      Method                GEBIOTA2017
22) Sample          22  40151608007 x2,,17532,BIOTA
      Datafile              032018022
      Method                GEBIOTA2017
23) Sample          23  40151608008 x10,,17532,BIOTA
      Datafile              032018023
      Method                GEBIOTA2017
24) Sample          24  1659955,,17547,BIOTA
      Datafile              032018024
      Method                GEBIOTA2017
25) Sample          25  1659956,,17547,BIOTA
      Datafile              032018025
      Method                GEBIOTA2017
26) Sample          26  1659957,,17547,BIOTA
      Datafile              032018026
      Method                GEBIOTA2017
27) Sample          27  40151614007,,17547;BIOTA
      Datafile              032018027
      Method                GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018028
      Method                GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018029
      Method                GEBIOTA2017
30) Sample          30  40151614008,,17547,BIOTA
      Datafile              032018030
      Method                GEBIOTA2017
31) Sample          31  40151705001,,17547,BIOTA
      Datafile              032018031
      Method                GEBIOTA2017
32) Sample          32  40151705002,,17547,BIOTA
      Datafile              032018032
      Method                GEBIOTA2017
33) Sample          33  40151705003,,17547,BIOTA
      Datafile              032018033
      Method                GEBIOTA2017
34) Sample          34  40151705004,,17547,BIOTA
      Datafile              032018034
      Method                GEBIOTA2017
35) Sample          35  40151705005,,17547,BIOTA
      Datafile              032018035
      Method                GEBIOTA2017
36) Sample          36  40151705006,,17547,BIOTA
      Datafile              032018036
      Method                GEBIOTA2017
37) Sample          37  40151705007,,17547,BIOTA
      Datafile              032018037
      Method                GEBIOTA2017
38) Sample          38  40151705008,,17547,BIOTA
      Datafile              032018038
      Method                GEBIOTA2017
39) Sample          39  40151705009,,17547,BIOTA
      Datafile              032018039
      Method                GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018040
      Method                GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018041
      Method                GEBIOTA2017
42) Sample          42  40151705010,,17547,BIOTA
      Datafile              032018042
      Method                GEBIOTA2017
43) Sample          43  40151705011,,17547,BIOTA
      Datafile              032018043

   Last Modified: Tue Mar 20 12:25:04 2018                Page:  2
```

BLM 3/26/18

Continued on Page 25

Read and Understood By

Signed 3/26/18 Date

Signed 3/26/18 Date

Sequence Name: C:\msdchem\1\sequence\032018.s

	Line Type	Vial	DataFile Method	Sample Name
44)	Sample	44	40151705012,,17547,BIOTA	
	Datafile		032018044	
	Method		GEBIOTA2017	
45)	Sample	45	40151705013,,17547,BIOTA	
	Datafile		032018045	
	Method		GEBIOTA2017	
46)	Sample	46	40151705014,,17547,BIOTA	
	Datafile		032018046	
	Method		GEBIOTA2017	
47)	Sample	47	40151705015,,17547,BIOTA	
	Datafile		032018047	
	Method		GEBIOTA2017	
48)	Sample	48	40151705016,,17547,BIOTA	
	Datafile		032018048	
	Method		GEBIOTA2017	
49)	Sample	49	40151705017,,17547,BIOTA	
	Datafile		032018049	
	Method		GEBIOTA2017	
50)	Sample	50	1659958,,17547,BIOTA	
	Datafile		032018050	
	Method		GEBIOTA2017	
51)	Sample	51	40151705018,,17547,BIOTA	
	Datafile		032018051	
	Method		GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166	ok
	Datafile		032018052	
	Method		GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166	ok
	Datafile		032018053	
	Method		GEBIOTA2017	

GCSV Batch #17547 HBN: 2837446 Screened on 40GCSI 03/20/18.

Last Modified: Tue Mar 20 12:25:04 2018 Page: 4

BLK 3/26/18

Continued on Page —

Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

PROJECT 4OGCSJ 03/27/18

Notebook No. 4417

Continued from Page —

```
     Sequence Name: C:\msdchem\1\sequence\032718.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\032718\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          032718001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032718002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032718003
     Method            GEBIOTA2017
 4) Sample          4  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718004
     Method            GEBIOTA2017
 5) Sample          5  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718005
     Method            GEBIOTA2017
 6) Sample          6  40151549007 x4,,17523,BIOTA
     Datafile          032718006
     Method            GEBIOTA2017
 7) Sample          7  1662165 x2,,17567,BIOTA
     Datafile          032718007
     Method            GEBIOTA2017
 8) Sample          8  40151800001 x2,,17567,BIOTA
     Datafile          032718008
     Method            GEBIOTA2017
 9) Sample          9  40151800003 x3,,17567,BIOTA
     Datafile          032718009
     Method            GEBIOTA2017
10) Sample         10  1662965,,17575,BIOTA
     Datafile          032718010
     Method            GEBIOTA2017
11) Sample         11  ~~1662965~~,,17575,BIOTA 16629606
     Datafile          032718011
     Method            GEBIOTA2017
12) Sample         12  1662968 x2,,17575,BIOTA RS x30
     Datafile          032718012
     Method            GEBIOTA2017
13) Sample         13  40151613012,,17575,BIOTA
     Datafile          032718013
     Method            GEBIOTA2017
14) Sample         14  1662967,,17575,BIOTA
     Datafile          032718014
     Method            GEBIOTA2017
15) Sample         15  40151613013,,17575,BIOTA
     Datafile          032718015
     Method            GEBIOTA2017
16) Sample         16  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718016
     Method            GEBIOTA2017
17) Sample         17  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718017
     Method            GEBIOTA2017
18) Sample         18  40151614006 x3,,17575,BIOTA
     Datafile          032718018
     Method            GEBIOTA2017
19) Sample         19  40151614009 x2,,17575,BIOTA
     Datafile          032718019

   Last Modified: Tue Mar 27 13:02:35 2018                Page:  1
```

BLM 3/28/18

BLM 4/3/18

Continued on Page 33

Read and Understood By

Signed 4/3/18 Date

Signed 4-3-18 Date

```
      Method          GEBIOTA2017
20) Sample      20  40151614010,,17575,BIOTA RS x2
     Datafile       032718020
     Method         GEBIOTA2017
21) Sample      21  40151616002 x10,,17575,BIOTA
     Datafile       032718021
     Method         GEBIOTA2017
22) Sample      22  40151616003 x3,,17575,BIOTA
     Datafile       032718022
     Method         GEBIOTA2017
23) Sample      23  40151616004 x5,,17575,BIOTA
     Datafile       032718023
     Method         GEBIOTA2017
24) Sample      24  40151616005,,17575,BIOTA
     Datafile       032718024
     Method         GEBIOTA2017
25) Sample      25  40151616006 x10,,17575,BIOTA
     Datafile       032718025
     Method         GEBIOTA2017
26) Sample      26  40151616007 x5,,17575,BIOTA RS x15
     Datafile       032718026
     Method         GEBIOTA2017
27) Sample      27  40151616008 x2,,17575,BIOTA
     Datafile       032718027
     Method         GEBIOTA2017
28) Sample      28  1242-CCV,185544:1,17498,AR124 ok
     Datafile       032718028
     Method         GEBIOTA2017
29) Sample      29  1242-CCV,185544:1,17498,AR124 ok
     Datafile       032718029
     Method         GEBIOTA2017
30) Sample      30  40151616009 x5,,17575,BIOTA RS x100
     Datafile       032718030
     Method         GEBIOTA2017
31) Sample      31  40151616010 x2,,17575,BIOTA RS x30
     Datafile       032718031
     Method         GEBIOTA2017
32) Sample      32  1662969 x2,,17575,BIOTA RS x30
     Datafile       032718032
     Method         GEBIOTA2017
33) Sample      33  40151802006,,17575,BIOTA
     Datafile       032718033
     Method         GEBIOTA2017
34) Sample      34  40151805002,,17575,BIOTA
     Datafile       032718034
     Method         GEBIOTA2017
35) Sample      35  1248-CCV,185549:1,17498,AR124 ok
     Datafile       032718035
     Method         GEBIOTA2017
36) Sample      36  1248-CCV,185549:1,17498,AR124 ok
     Datafile       032718036
     Method         GEBIOTA2017
```

Screener Ran: 40GCSI 03/27/18

Last Modified: Tue Mar 27 13:02:35 2018 Page: 2

BLM 4/3/18

Continued on Page —

Read and Understood By

Signed 4/3/18 Date Signed 4-3-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032318.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\032318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          032318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032318003
     Method            GEBIOTA2017
 4) Sample          4  1242-CCV,185544:1,17498,AR124 ok
     Datafile          032318004
     Method            GEBIOTA2017
 5) Sample          5  1242-CCV,185544:1,17498,AR124 ok
     Datafile          032318005
     Method            GEBIOTA2017
 6) Sample          6  1662163,,17567,BIOTA
     Datafile          032318006
     Method            GEBIOTA2017
 7) Sample          7  1662164,,17567,BIOTA
     Datafile          032318007
     Method            GEBIOTA2017
 8) Sample          8  1662165,,17567,BIOTA RS x2
     Datafile          032318008
     Method            GEBIOTA2017
 9) Sample          9  40151552011 x4,,17567,BIOTA
     Datafile          032318009
     Method            GEBIOTA2017
10) Sample         10  40151597001,,17567,BIOTA
     Datafile          032318010
     Method            GEBIOTA2017
11) Sample         11  40151605001,,17567,BIOTA
     Datafile          032318011
     Method            GEBIOTA2017
12) Sample         12  40151605002 x2,,17567,BIOTA
     Datafile          032318012
     Method            GEBIOTA2017
13) Sample         13  40151614001,,17567,BIOTA
     Datafile          032318013
     Method            GEBIOTA2017
14) Sample         14  40151616001,,17567,BIOTA
     Datafile          032318014
     Method            GEBIOTA2017
15) Sample         15  40151619001,,17567,BIOTA
     Datafile          032318015
     Method            GEBIOTA2017
16) Sample         16  1248-CCV,185549:1,17498,AR124 ok
     Datafile          032318016
     Method            GEBIOTA2017
17) Sample         17  1248-CCV,185549:1,17498,AR124 ok
     Datafile          032318017
     Method            GEBIOTA2017
18) Sample         18  40151619002,,17567,BIOTA
     Datafile          032318018
     Method            GEBIOTA2017
19) Sample         19  1662166,,17567,BIOTA
     Datafile          032318019

   Last Modified: Fri Mar 23 12:37:04 2018                  Page:  1
```

BLM 3/26/18

Continued on Page 31

Read and Understood By

Bryan Mayl — Signed — 3/26/18 — Date

[signature] — Signed — 3/26/18 — Date

```
      Method                GEBIOTA2017
20) Sample          20  40151619003,,17567,BIOTA
      Datafile              032318020
      Method                GEBIOTA2017
21) Sample          21  40151619004,,17567,BIOTA
      Datafile              032318021
      Method                GEBIOTA2017
22) Sample          22  40151800001,,17567,BIOTA  RS x 2
      Datafile              032318022
      Method                GEBIOTA2017
23) Sample          23  40151800002,,17567,BIOTA
      Datafile              032318023
      Method                GEBIOTA2017
24) Sample          24  40151800003 x2,,17567,BIOTA  RS x 3
      Datafile              032318024
      Method                GEBIOTA2017
25) Sample          25  40151800004,,17567,BIOTA
      Datafile              032318025
      Method                GEBIOTA2017
26) Sample          26  40151804001 x3,,17567,BIOTA
      Datafile              032318026
      Method                GEBIOTA2017
27) Sample          27  40151804002,,17567,BIOTA
      Datafile              032318027
      Method                GEBIOTA2017
28) Sample          28  1254-CCV,185554:1,17498,AR125  OK
      Datafile              032318028
      Method                GEBIOTA2017
29) Sample          29  1254-CCV,185554:1,17498,AR125  OK
      Datafile              032318029
      Method                GEBIOTA2017
30) Sample          30  40151804003 x2,,17567,BIOTA
      Datafile              032318030
      Method                GEBIOTA2017
31) Sample          31  40151804009 x3,,17567,BIOTA
      Datafile              032318031
      Method                GEBIOTA2017
32) Sample          32  40151804010 x5,,17567,BIOTA
      Datafile              032318032
      Method                GEBIOTA2017
33) Sample          33  1660-CCV,185559:1,17498,AR166  OK
      Datafile              032318033
      Method                GEBIOTA2017
34) Sample          34  1660-CCV,185559:1,17498,AR166  OK
      Datafile              032318034
      Method                GEBIOTA2017
```

Screener: 40GCSI 03/23/18

Last Modified: Fri Mar 23 12:37:04 2018 Page: 2

BLM 3/26/18

Continued on Page —

Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\040518.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\040518\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run        Sequence Barcode Options
    (X) Full Method               (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only         ( ) On Mismatch, Don't Inject
                                  ( ) Barcode Disabled
  ---------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          040518001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040518002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040518003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17498,AR124 OK
     Datafile          040518004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17498,AR124 OK
     Datafile          040518005
     Method            GEBIOTA2017
 6) Sample          6  40151616001 x2,,17567,BIOTA
     Datafile          040518006
     Method            GEBIOTA2017
 7) Sample          7  40151804002 x2,,17567,BIOTA
     Datafile          040518007
     Method            GEBIOTA2017
 8) Sample          8  1667970,,17626,BIOTA
     Datafile          040518008
     Method            GEBIOTA2017
 9) Sample          9  1667971,,17626,BIOTA
     Datafile          040518009
     Method            GEBIOTA2017
10) Sample         10  40157488011,,17626,BIOTA
     Datafile          040518010
     Method            GEBIOTA2017
11) Sample         11  40157488012 x2,,17626,BIOTA
     Datafile          040518011
     Method            GEBIOTA2017
12) Sample         12  40157488013 x2,,17626,BIOTA
     Datafile          040518012
     Method            GEBIOTA2017
13) Sample         13  40157488014 x2,,17626,BIOTA
     Datafile          040518013
     Method            GEBIOTA2017
14) Sample         14  40157488015 x3,,17626,BIOTA
     Datafile          040518014
     Method            GEBIOTA2017
15) Sample         15  40157489011 x4,,17626,BIOTA
     Datafile          040518015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17498,AR124 OK
     Datafile          040518016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17498,AR124 OK
     Datafile          040518017
     Method            GEBIOTA2017
18) Sample         18  40157489012 x5,,17626,BIOTA
     Datafile          040518018
     Method            GEBIOTA2017
19) Sample         19  40157489013 x2,,17626,BIOTA
     Datafile          040518019

   Last Modified: Thu Apr 05 13:16:40 2018                Page:  1
```

BLM 4/6/18

Continued on Page 44

Read and Understood By

Bryan Megel — Signed — 4/6/18 Date

Jim O'Connor — Signed — 4-6-18 Date

```
      Method                GEBIOTA2017
20) Sample          20  40157489014 x2,,17626,BIOTA
      Datafile              040518020
      Method                GEBIOTA2017
21) Sample          21  40157489015 x5,,17626,BIOTA
      Datafile              040518021
      Method                GEBIOTA2017
22) Sample          22  40157489016 x3,,17626,BIOTA
      Datafile              040518022
      Method                GEBIOTA2017
23) Sample          23  1667972 x3,,17626,BIOTA
      Datafile              040518023
      Method                GEBIOTA2017
24) Sample          24  1667973 x3,,17626,BIOTA
      Datafile              040518024
      Method                GEBIOTA2017
25) Sample          25  40157489017,,17626,BIOTA
      Datafile              040518025
      Method                GEBIOTA2017
26) Sample          26  40157489018,,17626,BIOTA
      Datafile              040518026
      Method                GEBIOTA2017
27) Sample          27  40157489019 x4,,17626,BIOTA
      Datafile              040518027
      Method                GEBIOTA2017
28) Sample          28  1660-CCV,185559:1,17498,AR166 ok
      Datafile              040518028
      Method                GEBIOTA2017
29) Sample          29  1660-CCV,185559:1,17498,AR166 ok
      Datafile              040518029
      Method                GEBIOTA2017
30) Sample          30  40157489020,,17626,BIOTA
      Datafile              040518030
      Method                GEBIOTA2017
31) Sample          31  40157492012 x4,,17626,BIOTA
      Datafile              040518031
      Method                GEBIOTA2017
32) Sample          32  40157492013 x5,,17626,BIOTA
      Datafile              040518032
      Method                GEBIOTA2017
33) Sample          33  40157492014 x3,,17626,BIOTA
      Datafile              040518033
      Method                GEBIOTA2017
34) Sample          34  40157492015 x5,,17626,BIOTA
      Datafile              040518034
      Method                GEBIOTA2017
35) Sample          35  40157492017 x2,,17626,BIOTA
      Datafile              040518035
      Method                GEBIOTA2017
36) Sample          36  1221-CCV,185538:1,17498,AR122 ok
      Datafile              040518036
      Method                GEBIOTA2017
37) Sample          37  1221-CCV,185538:1,17498,AR122 ok
      Datafile              040518037
      Method                GEBIOTA2017
```

GCSV Batch 17626 HBN: 285248 Screened:
40GCSI 04/05/18

Last Modified: Thu Apr 05 13:16:40 2018

Page: 2

BLM 4/6/18

Continued on Page —

Read and Understood By

Signed: Bryan Meyer Date: 4/6/18 Signed: Jim O'Connor Date: 4-6-18

Standard Log Report

Standards Log Information for Standard #191930

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/21/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/21/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191930

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

Composed of Information for Standard #191930

Composed of Standard Seq	Volume	Units
190949	2000	mL
188917	2000	mL

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

Standard Log Report

Standards Log Information for Standard #191186

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/12/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/12/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191186

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

Composed of Information for Standard #191186

Composed of Standard Seq	Volume	Units
190951	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #190952

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190952

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #190951

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 #190951

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 #190949

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190949

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188340

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	02/01/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #188340

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 #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			

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

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

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

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

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

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

Composed of Information for Standard #185565

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

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

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

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

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

Composed of Information for Standard #185564

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

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

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

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

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

Composed of Information for Standard #185563

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

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

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

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

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

Composed of Information for Standard #185562

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

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

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

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

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

Composed of Information for Standard #185561

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

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

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

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

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

Composed of Information for Standard #185560

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

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

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

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

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

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

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

Composed of Information for Standard #185554

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

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

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

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

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

Composed of Information for Standard #185553

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

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

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

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

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

Composed of Information for Standard #185551

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

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

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

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

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

Composed of Information for Standard #185550

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

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

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

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

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

Composed of Information for Standard #185549

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

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

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

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

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

Composed of Information for Standard #185548

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

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

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

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

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

Composed of Information for Standard #185546

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

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

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

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

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

Composed of Information for Standard #185545

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

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

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

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

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

Composed of Information for Standard #185544

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

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

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

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

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

Composed of Information for Standard #185543

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

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

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

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

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

Composed of Information for Standard #185539

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

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

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

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

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

Composed of Information for Standard #185538

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

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

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

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

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

Composed of Information for Standard #185537

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

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

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

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

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

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #182336

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	11/09/2017	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\111017spk.b\A110047 96% Recovery

Compound Name and Concentration for Standard #182336

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #182336

Composed of Standard Seq	Volume	Units
175728	196	mL
164832	4000	uL

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

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

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

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

Standard Log Report

Standards Log Information for Standard #175728

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405434
Create Date:	08/10/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	11/10/2018	**Manufacturer Lot ID:**	DS178	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #175728

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

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

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

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

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

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

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

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

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		

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

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

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

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

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

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

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

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

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	25 mL	**Lot ID:**	405214
Create Date:	03/27/2017	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	302694	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

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

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

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ By __

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

o2si smart solutions®

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-07	302694	≤ Ambient	Tol.:Hex. 1:1	15-Jan-2021	Aroclor 1242 Solution, 1,000 mg/L, 25 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1002 +/- 5.75	mg/L

Certified By: _____

Dreema Murray

Manufacture Date 17-Mar-2017

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

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

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

o2si smart solutions®

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
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

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)

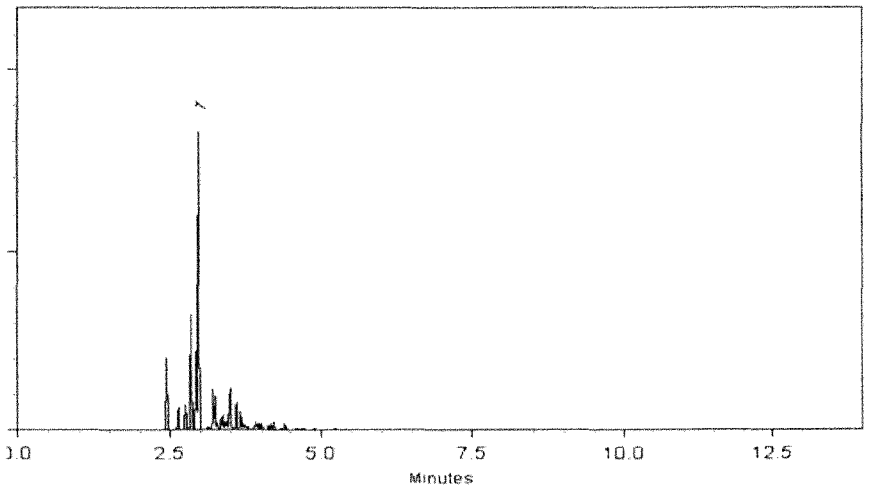
Carrier Gas:
helium-constant pressure 20 psi.

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
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. : 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)

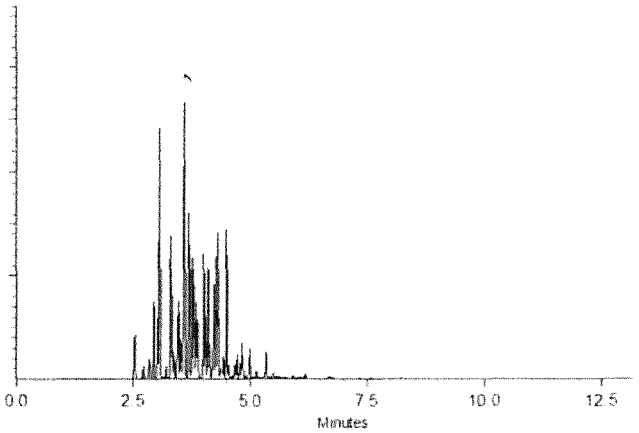
Carrier Gas:
helium-constant pressure 20 psi.

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

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. : 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)

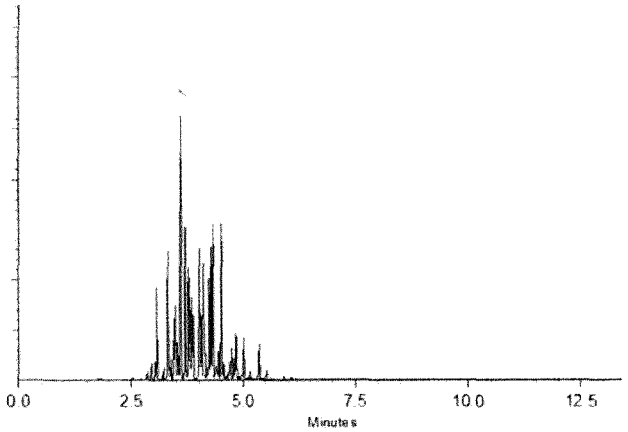
Carrier Gas:
helium-constant pressure 20 psi.

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Aroclor® 1248 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

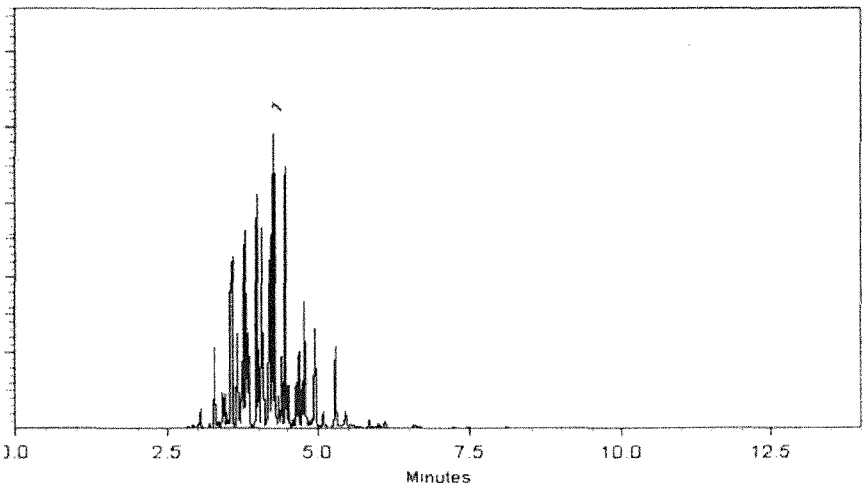
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

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

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Aroclor® 1254 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

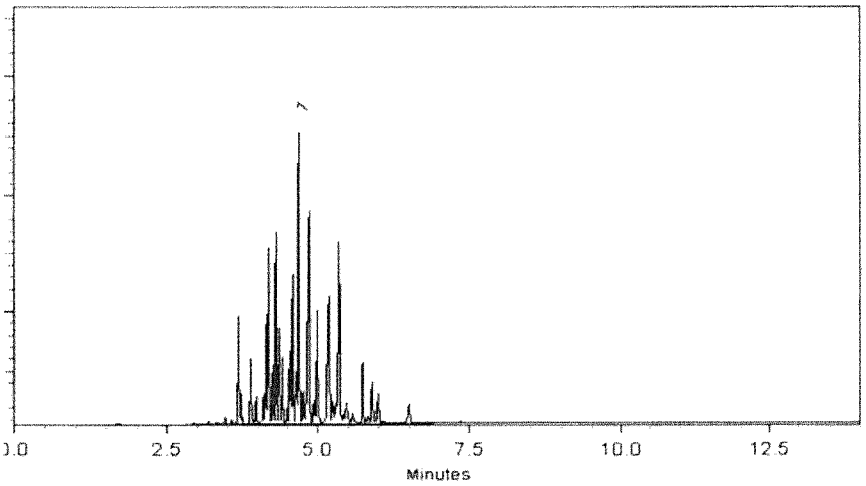
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

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

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

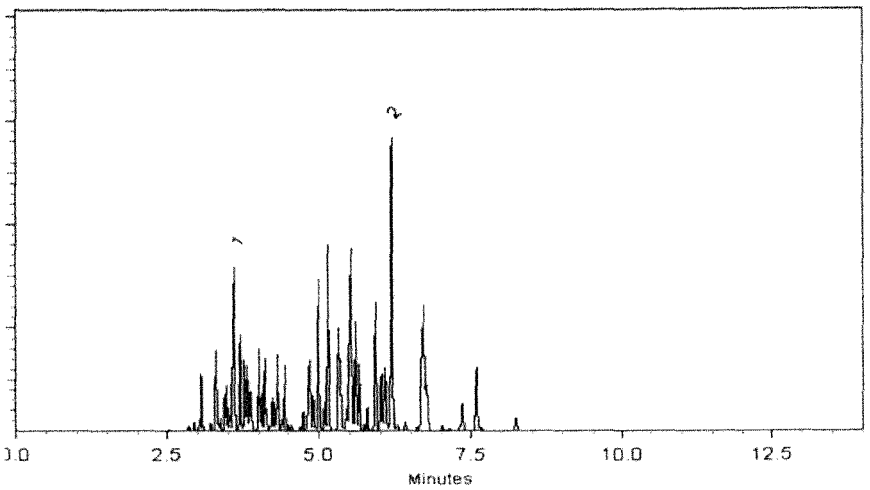
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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

o2si smart solutions®

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

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
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.

o2si smart solutions®

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

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
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.

o2si smart solutions®

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

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

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

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

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

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

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

o2si smart solutions®

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

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

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

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

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

Acetone, B&J Brand™, >99.9%
for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

DMH 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

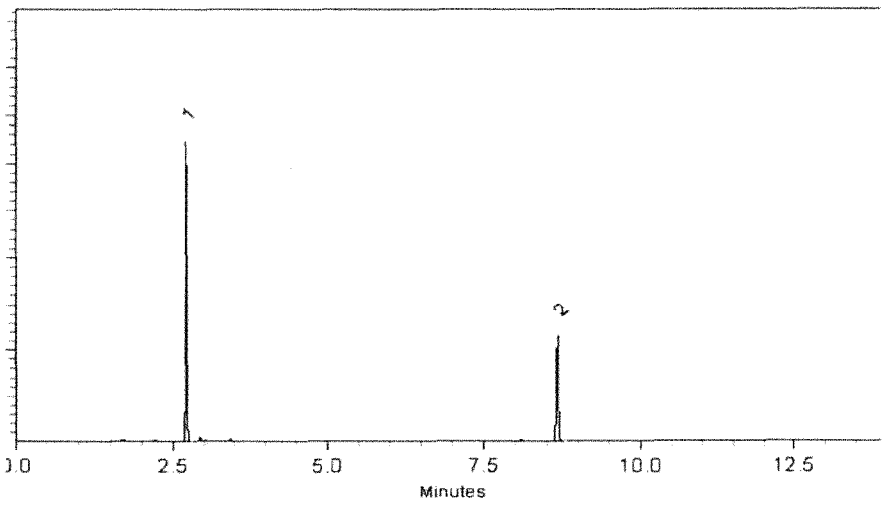
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

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

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

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

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

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

Honeywell
Quality Control Approval

Janna Dickinson

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

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

o2si smart solutions®

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

2030 Savage Road
Charleston, South Carolina 29407
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 0 **Page 1 of 1**

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

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

Certified By: _____
Kara Catron
Manufacture Date 24-Jul-2017

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

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

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

J.T.Baker® | avantor™

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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James Ethier
Jamie Ethier
Vice President Global Quality

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

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

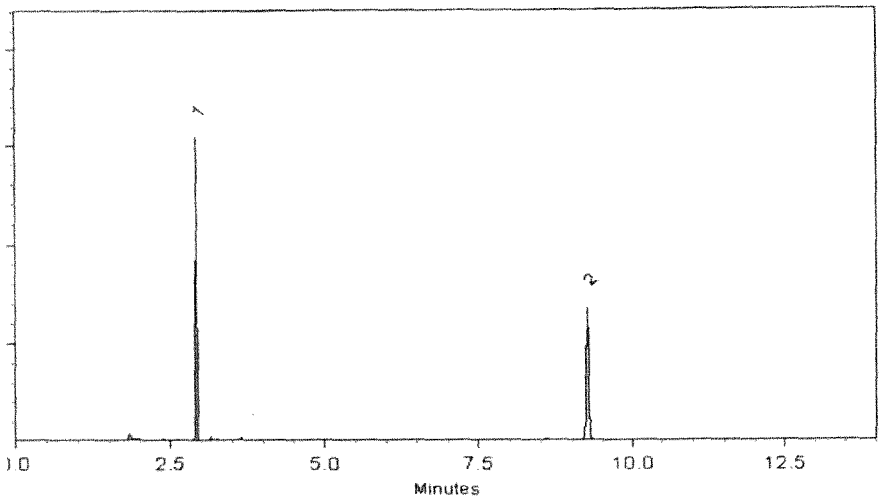
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

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

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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.

SAMPLE NO.

ND2-170613-01-YP-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	03/23/2018 06:20

SAMPLE NO.

ND2-170613-01-YP-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.39		%	1	03/23/2018 06:20

SAMPLE NO.

ND2-170613-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.98		%	1	03/23/2018 06:20

SAMPLE NO.

ND2-170613-01-SMB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.33		%	1	03/13/2018 08:59

SAMPLE NO.

ND2-170613-01-SMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.25		%	1	03/13/2018 08:59

SAMPLE NO.

ND2-170613-01-SMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.41		%	1	03/13/2018 08:59

SAMPLE NO.

ND2-170613-01-SMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.39		%	1	03/13/2018 08:59

SAMPLE NO.

ND2-170613-01-SMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.29		%	1	03/13/2018 08:59

SAMPLE NO.

ND1-170613-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/23/2018 06:20

SAMPLE NO.

ND1-170613-01-YP-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151804010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/23/2018 06:20

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1655713	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1662744	C
Lipid									<0.030	U

SAMPLE NO.

1655716DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	3.0	2.1	36

SAMPLE NO.

1655717DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.39	0.41	3

SAMPLE NO.

1662747DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151804 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.70	0.81	14

Prep Log Report

Batch Information: OEXT 282623 LIPIDS **Template Version: F-GB-O-145-Rev.00 (17Feb2015) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 12:46				

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	**1655713**	Y	-0.02500	03/13/2018 08:59:48		10	5	1	0.9256	0.9251	M	
LIPID	BLANK	**1655714**	Y	-0.005000	03/13/2018 08:59:48		10	5	1	0.9253	0.9252	M	
LIPID	PS	**40150295019**	Y	2.996	03/13/2018 08:59:48		10.012	5	1	0.9258	0.9858	M	
LIPID	DUP	**1655716**	Y	2.088	03/13/2018 08:59:48		10.0106	5	1	0.9241	0.9659	M	
LIPID	PS	**40150295020**	Y	0.7228	03/13/2018 08:59:48		9.9616	5	1	0.9251	0.9395	M	
LIPID	PS	**40151597002**	Y	0.6496	03/13/2018 08:59:48		10.0054	5	1	0.9272	0.9402	M	
LIPID	PS	**40151597003**	Y	0.3158	03/13/2018 08:59:48		9.9731	5	1	0.9222	0.9285	M	
LIPID	PS	**40151601002**	Y	0.3703	03/13/2018 08:59:48		9.9928	5	1	0.9241	0.9315	M	
LIPID	PS	**40151608001**	Y	0.7363	03/13/2018 08:59:48		9.9824	5	1	0.9213	0.936	M	
LIPID	PS	**40151608002**	Y	0.6200	03/13/2018 08:59:48		10.0008	5	1	0.9218	0.9342	M	
LIPID	PS	**40151608011**	Y	0.4249	03/13/2018 08:59:48		10.0021	5	1	0.9218	0.9303	M	
LIPID	PS	**40151800006**	Y	0.5787	03/13/2018 08:59:48		10.0226	5	1	0.9249	0.9365	M	
LIPID	PS	**40151800007**	Y	0.4591	03/13/2018 08:59:48		10.0192	5	1	0.9286	0.9378	M	
LIPID	PS	**40151800008**	Y	0.3457	03/13/2018 08:59:48		9.98	5	1	0.9229	0.9298	M	
LIPID	PS	**40151800009**	Y	0.3592	03/13/2018 08:59:48		10.0226	5	1	0.926	0.9332	M	
LIPID	PS	**40151800010**	Y	0.4864	03/13/2018 08:59:48		9.9707	5	1	0.9251	0.9348	M	
LIPID	PS	**40151804004**	Y	0.3344	03/13/2018 08:59:48		10.0181	5	1	0.9272	0.9339	M	
LIPID	PS	**40151804005**	Y	0.2505	03/13/2018 08:59:48		9.9782	5	1	0.9275	0.9325	M	
LIPID	PS	**40151804006**	Y	0.4104	03/13/2018 08:59:48		9.9895	5	1	0.9304	0.9386	M	

Prep Log Report

40151804

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	RQS	**40151804007**	Y	0.3937	03/13/2018 08:59:48		10.0333	5	1	0.9225	0.9304	M	
LIPID	DUP	**1655717**	Y	0.4057	03/13/2018 08:59:48		9.9824	5	1	0.9236	0.9317	M	
LIPID	PS	**40151804008**	Y	0.2902	03/13/2018 08:59:48		9.9931	5	1	0.9254	0.9312	M	
LIPID	MS	**1682460**	Y	2.962	03/13/2018 08:59:48		10.0094	5	1	.9242	0.9835	M	

Prep Log Report

Batch Information: OEXT 284080 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:43				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1662744**	Y	0.01500	03/23/2018 06:20:11		10	5	1	0.9258	0.9261	M	
LIPID	BLANK	**1662745**	Y	0.04500	03/23/2018 06:20:11		10	5	1	0.9256	0.9265	M	
LIPID	PS	**40151552011**	Y	1.255	03/23/2018 06:20:11		9.9626	5	1	0.9209	0.9459	M	
LIPID	PS	**40151597001**	Y	0.5350	03/23/2018 06:20:11		9.9992	5	1	0.9267	0.9374	M	
LIPID	PS	**40151605001**	Y	1.669	03/23/2018 06:20:11		10.0092	5	1	0.9233	0.9567	M	
LIPID	PS	**40151605002**	Y	0.8256	03/23/2018 06:20:11		9.9923	5	1	0.9281	0.9446	M	
LIPID	PS	**40151614001**	Y	0.6138	03/23/2018 06:20:11		10.0203	5	1	0.9272	0.9395	M	
LIPID	PS	**40151616001**	Y	0.4351	03/23/2018 06:20:11		9.9967	5	1	0.9266	0.9353	M	
LIPID	PS	**40151619001**	Y	0.7315	03/23/2018 06:20:11		9.9791	5	1	0.9237	0.9383	M	
LIPID	RQS	**40151619002**	Y	0.6984	03/23/2018 06:20:11		10.0233	5	1	0.9254	0.9394	M	
LIPID	DUP	**1662747**	Y	0.8068	03/23/2018 06:20:11		9.9773	5	1	0.9286	0.9447	M	
LIPID	PS	**40151619003**	Y	1.308	03/23/2018 06:20:11		10.0185	5	1	0.9251	0.9513	M	
LIPID	PS	**40151619004**	Y	0.9110	03/23/2018 06:20:11		9.9887	5	1	0.9302	0.9484	M	
LIPID	PS	**40151800001**	Y	0.4543	03/23/2018 06:20:11		10.0159	5	1	0.9307	0.9398	M	
LIPID	PS	**40151800002**	Y	0.6069	03/23/2018 06:20:11		9.968	5	1	0.9303	0.9424	M	
LIPID	PS	**40151800003**	Y	1.099	03/23/2018 06:20:11		9.9637	5	1	0.9323	0.9542	M	
LIPID	PS	**40151800004**	Y	0.8284	03/23/2018 06:20:11		10.0193	5	1	0.9266	0.9432	M	
LIPID	PS	**40151804001**	Y	1.434	03/23/2018 06:20:11		9.9711	5	1	0.9289	0.9575	M	
LIPID	PS	**40151804002**	Y	0.3909	03/23/2018 06:20:11		9.9758	5	1	0.9282	0.936	M	

Prep Log Report

40151804

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40151804003**	Y	0.9836	03/23/2018 06:20:11		9.9638	5	1	0.9296	0.9492	M	
LIPID	PS	**40151804009**	Y	1.054	03/23/2018 06:20:11		10.0066	5	1	0.9292	0.9503	M	
LIPID	PS	**40151804010**	Y	1.136	03/23/2018 06:20:11		10.0363	5	1	0.9286	0.9514	M	
LIPID	MS	**1682565**	Y	0.7630	03/23/2018 06:20:11		9.9608	5	1	.9272	0.9424	M	

40151804

Client Name: 40151804
Project #: GE
Sample Type: Fish
Date/Time Removed to Thaw: 02-26-18
Date/Time Prepped: 02-27-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	A	F	Y	100.7	Y	F	37.9	Left / Both	Y	9AG	1	Y	33.1	G	
2	A	F	Y	100.6	Y	M	42.4	Left / Both	Y	9AG	1	Y	36.1	G	
3	A	F	Y	177.7	Y	M	42.1	Left / Both	Y	9AG	1	Y	37.2	G	
4	A	F	Y	403.6	Y	M	87.5	Left / Both	Y	9AG	1	Y	71.6	G	
5	A	F	Y	396.4	Y	F	83.2	Left / Both	Y	9AG	1	Y	79.6	G	
6	A	F	Y	457.6	Y	M	95.2	Left / Both	Y	9AG	1	Y	92.4	C	
7	A	F	Y	867.9	Y	M	185.2	Left / Both	Y	9AG	1	Y	176.6	C	
8	A	F	Y	516.1	Y	M	104.7	Left / Both	Y	9AG	1	Y	100.7	C	
9	A	F	Y	113.6	Y	M	40.7	Left / Both	Y	9AG	1	Y	39.7	C	
10	A	F	Y	113.8	Y	M	45.2	Left / Both	Y	9AG	1	Y	44.4	C	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	02-27-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-212-0404B
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

3/16/18
Date