TRIMATRIX LABORATORIES

SECTION - D

GC VOLATILE ORGANICS

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Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ Phone: 616.975.4500 ♦ Fax: 616.942.7463 ♦ www.trimatrixlabs.com

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.

Sample/Analyte:

TriMatrix Laboratories, Inc.

TechLaw

Project: KNM

SDG: KNM050112

USEPA-8015C

SAMPLE ID SUMMARY
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050112

Client: TechLaw

Project: KNM

Client Sample Id:	Lab Sample Id:
106092	1205072-01
106093	1205073-01
106036	1205085-01
106037	1205085-02

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2E09056

SDG: KNM050112
Project: KNM
Calibration: 2D12010
Instrument: 333

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2E09056-CCV1)	Lab File ID: MAY08000000Analyzed: 05/09/12 13:35						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	87	85 - 115	
Blank (1205752-BLK1)	Lab File ID: MAY08000000Analyzed: 05/09/12 13:42						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	87	45 - 136	
LCS (1205752-BS1)	Lab File ID: MAY08000001Analyzed: 05/09/12 13:49						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	78	45 - 136	
106092 (1205072-01)	Lab File ID: MAY08000001Analyzed: 05/09/12 13:56						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	83	45 - 136	
106093 (1205073-01)	Lab File ID: MAY08000001Analyzed: 05/09/12 14:03						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	80	45 - 136	
106036 (1205085-01)	Lab File ID: MAY08000001Analyzed: 05/09/12 14:10						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	81	45 - 136	
106037 (1205085-02)	Lab File ID: MAY08000001Analyzed: 05/09/12 14:17						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	83	45 - 136	
Matrix Spike (1205752-MS1)	Lab File ID: MAY08000001Analyzed: 05/09/12 14:24						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	82	45 - 136	
Matrix Spike Dup (1205752-MSD1)	Lab File ID: MAY08000001Analyzed: 05/09/12 14:31						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	83	45 - 136	
Calibration Check (2E09056-CCV2)	Lab File ID: MAY08000001Analyzed: 05/09/12 14:38						
o-Terphenyl	1.20	1.19	0.01	+/-1.0	92	85 - 115	

ANALYSIS BATCH (SEQUENCE) SUMMARY
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2E09056

SDG: KNM050112
Project: KNM
Calibration: 2D12010
Instrument: 333

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2E09056-CCV1	MAY080000008.D	05/09/12 13:35
Blank	1205752-BLK1	MAY080000009.D	05/09/12 13:42
LCS	1205752-BS1	MAY080000010.D	05/09/12 13:49
106092	1205072-01	MAY080000011.D	05/09/12 13:56
106093	1205073-01	MAY080000012.D	05/09/12 14:03
106036	1205085-01	MAY080000013.D	05/09/12 14:10
106037	1205085-02	MAY080000014.D	05/09/12 14:17
106037	1205752-MS1	MAY080000015.D	05/09/12 14:24
106037	1205752-MSD1	MAY080000016.D	05/09/12 14:31
Calibration Check	2E09056-CCV2	MAY080000017.D	05/09/12 14:38

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8015C

106037

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205752

SDG: KNM050112

Project: KNM

Laboratory ID: 1205752-MS1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 960 mL / 1 mL

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
DRO - 8015 (C10-C20)	1040	ND	964	92	65 - 135	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8015C

106037

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205752

SDG: KNM050112

Project: KNM

Laboratory ID: 1205752-MSD1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 980 mL / 1 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
DRO - 8015 (C10-C20)	1020	908	89	6	20	65 - 135	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM050112
Project: KNM
Laboratory ID: 1205752-BS1
Preparation: 3510C Liquid-Liquid Extraction
Initial/Final: 1000 mL / 1 mL

QC Batch: 1205752
Sequence: 2E09056

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
DRO - 8015 (C10-C20)	1000	932	93	70 - 135	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD BLANK DATA SHEET
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205752-BLK1 File ID: MAY080000009.D

Prepared: 05/08/12 08:08 Analyzed: 05/09/12 13:42

Preparation: 3510C Liquid-Liquid Ext Initial/Final: 1000 mL / 1 mL

QC Batch: 1205752 Sequence: 2E09056 Calibration: 2D12010 Instrument: 333

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
DRO	DRO - 8015 (C10-C20)	200	ug/L	32	200	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
o-Terphenyl	40.0	34.7	87	45 - 136	

QC BATCH SUMMARY
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
QC Batch: 1205752
QC Batch Matrix: Water
Preparation: 3510C Liquid-Liquid Extraction

Sample Name	Lab Sample ID	Date Prepared	Observations
106092	1205072-01	05/08/12 08:08	C10-20
106093	1205073-01	05/08/12 08:08	C10-20
106036	1205085-01	05/08/12 08:08	C10-20
106037	1205085-02	05/08/12 08:08	C10-20
Blank	1205752-BLK1	05/08/12 08:08	
LCS	1205752-BS1	05/08/12 08:08	
106037	1205752-MS1	05/08/12 08:08	
106037	1205752-MSD1	05/08/12 08:08	

HOLDING TIME SUMMARY
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050112

Client: TechLaw

Project: KNM

Method: Extractable Petroleum Hydrocarbons by EPA Method 801:

Sample Name	Date Collected	Date Received	Date Leached	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
106092	05/01/12	05/02/12		05/08/12	7	7	05/09/12	1	40	
106093	05/01/12	05/02/12		05/08/12	7	7	05/09/12	1	40	
106036	05/02/12	05/03/12		05/08/12	6	7	05/09/12	1	40	
106037	05/02/12	05/03/12		05/08/12	6	7	05/09/12	1	40	

ORGANIC ANALYSIS DATA SHEET
USEPA-8015C

106092

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205072-01 File ID: MAY080000011.D

Sampled: 05/01/12 15:22 Prepared: 05/08/12 08:08 Analyzed: 05/09/12 13:56

Solids: Preparation: 3510C Liquid-Liquid Ext Initial/Final: 960 mL / 1 mL

QC Batch: 1205752 Sequence: 2E09056 Calibration: 2D12010 Instrument: 333

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
DRO	DRO - 8015 (C10-C20)	1	2900	32	200	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
o-Terphenyl	41.7	34.8	83	45 - 136	

* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000011.D
Sample Name: 1205072-01

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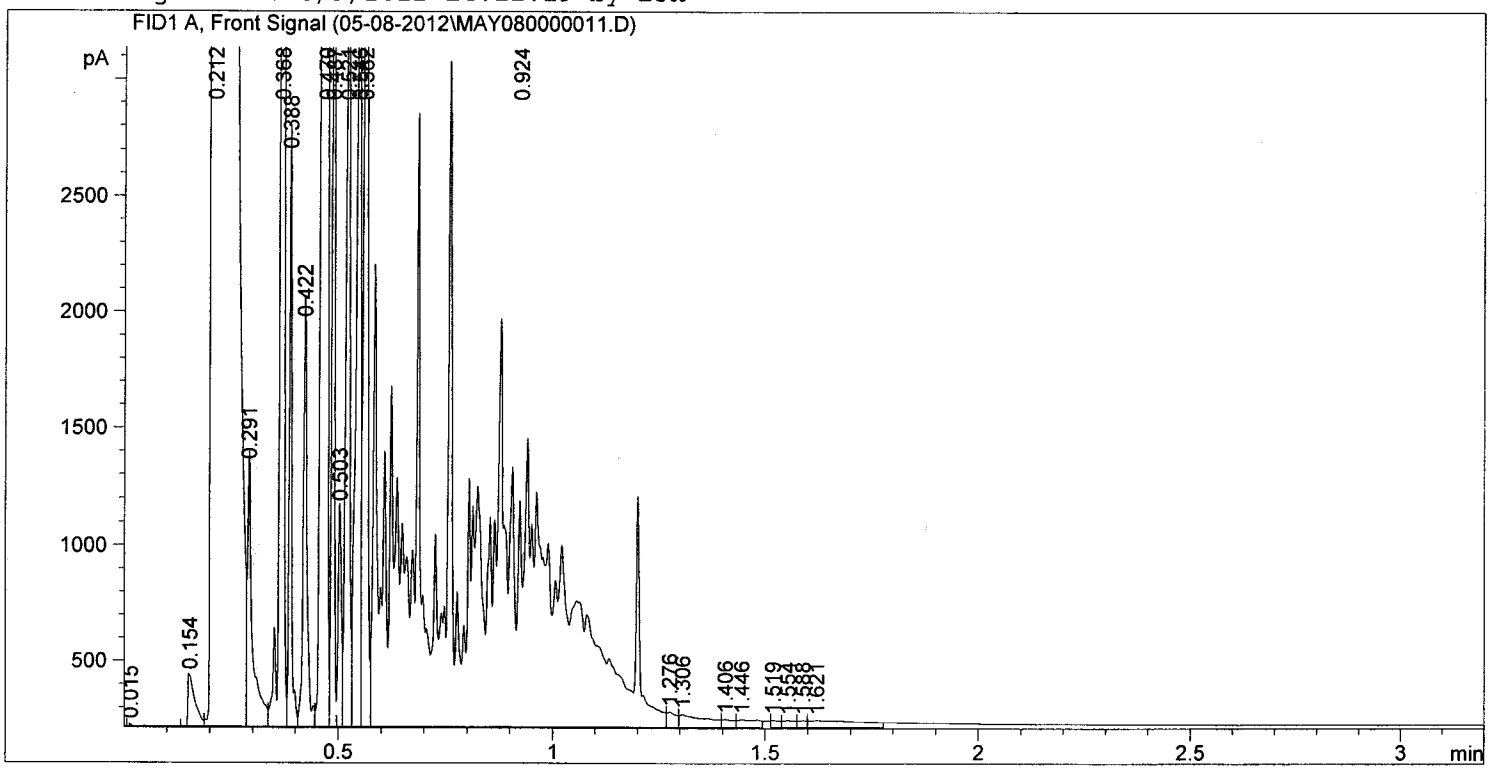
Acq. Operator	: BJH	Seq. Line :	7
Acq. Instrument	: 333	Location :	Vial 6
Injection Date	: 5/9/2012 13:56:32	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.924	HHA+	0.1484	2.47678e4	3.28561	EPA DRO (C10-C20)

Totals : 2.47678e4 3.2856

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*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000011.D
Sample Name: 1205072-01

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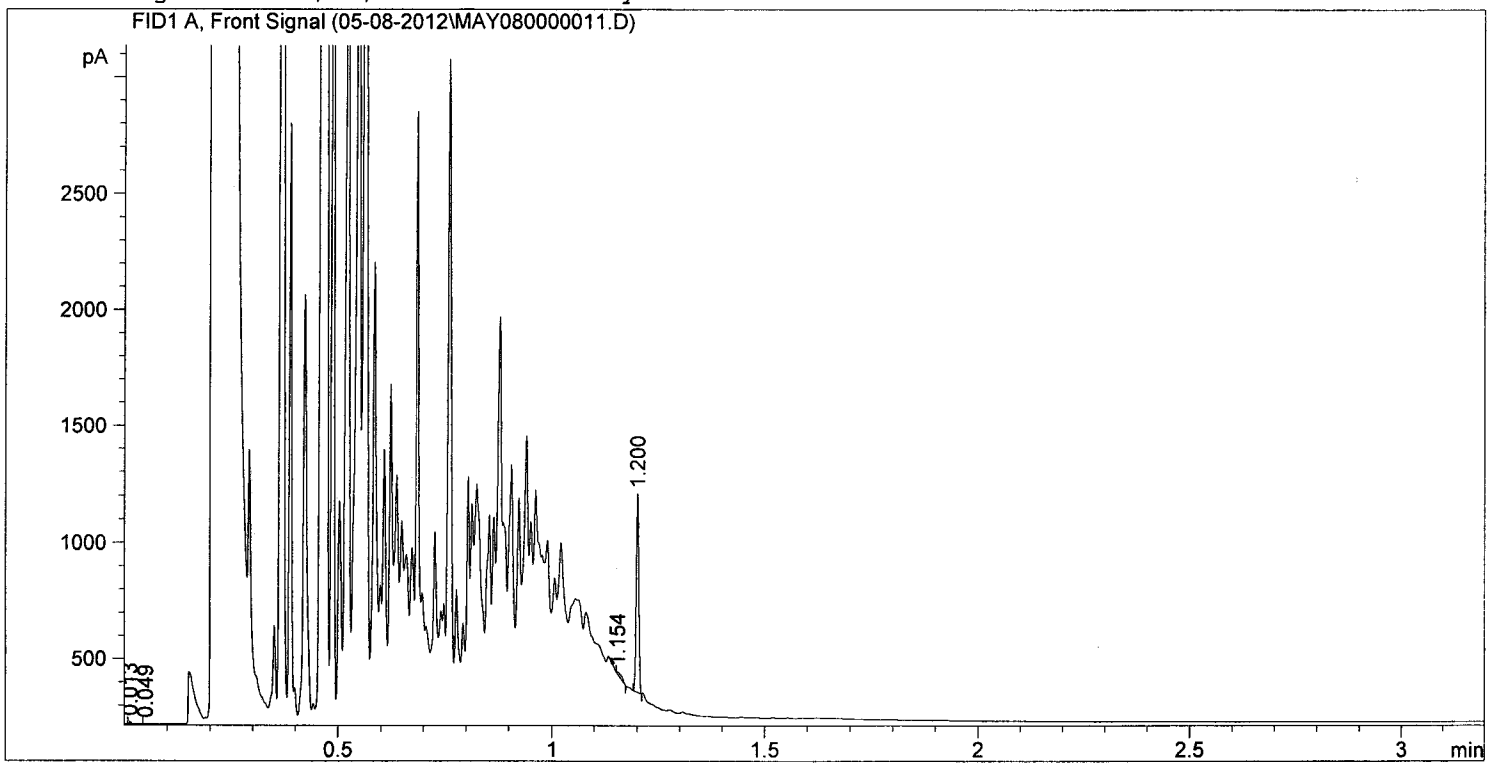
Acq. Operator	: BJH	Seq. Line	: 7
Acq. Instrument	: 333	Location	: Vial 6
Injection Date	: 5/9/2012 13:56:32	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.200	1	BB S	365.12912	9.14176e-2	33.37923		OTP (Surrogate

Totals : 33.37923

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*** End of Report ***

ORGANIC ANALYSIS DATA SHEET
USEPA-8015C

106093

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205073-01
File ID: MAY080000012.D
Sampled: 05/01/12 11:16
Prepared: 05/08/12 08:08
Analyzed: 05/09/12 14:03
Solids:
Preparation: 3510C Liquid-Liquid Ext
Initial/Final: 970 mL / 1 mL
QC Batch: 1205752
Sequence: 2E09056
Calibration: 2D12010
Instrument: 333

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
DRO	DRO - 8015 (C10-C20)	1	200	32	200	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
o-Terphenyl	41.2	33.0	80	45 - 136	

* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000012.D
Sample Name: 1205073-01

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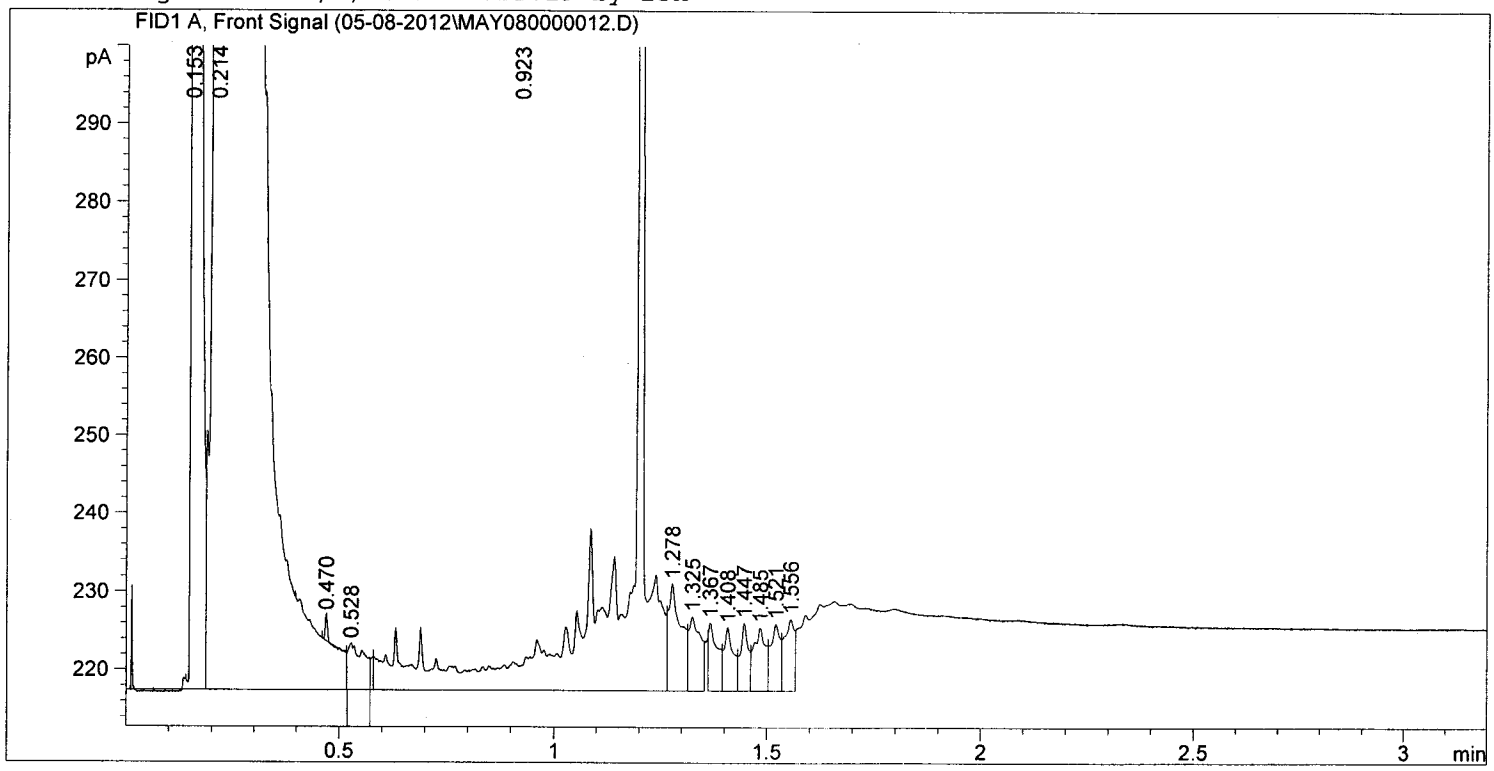
Acq. Operator	: BJH	Seq. Line :	8
Acq. Instrument	: 333	Location :	Vial 7
Injection Date	: 5/9/2012 14:03:27	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.0129	592.97766	0.08477	EPA DRO (C10-C20)

Totals : 592.97766 8.477e-2

1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (EPA DRO (C10-C20))

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000012.D
Sample Name: 1205073-01

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*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000012.D
Sample Name: 1205073-01

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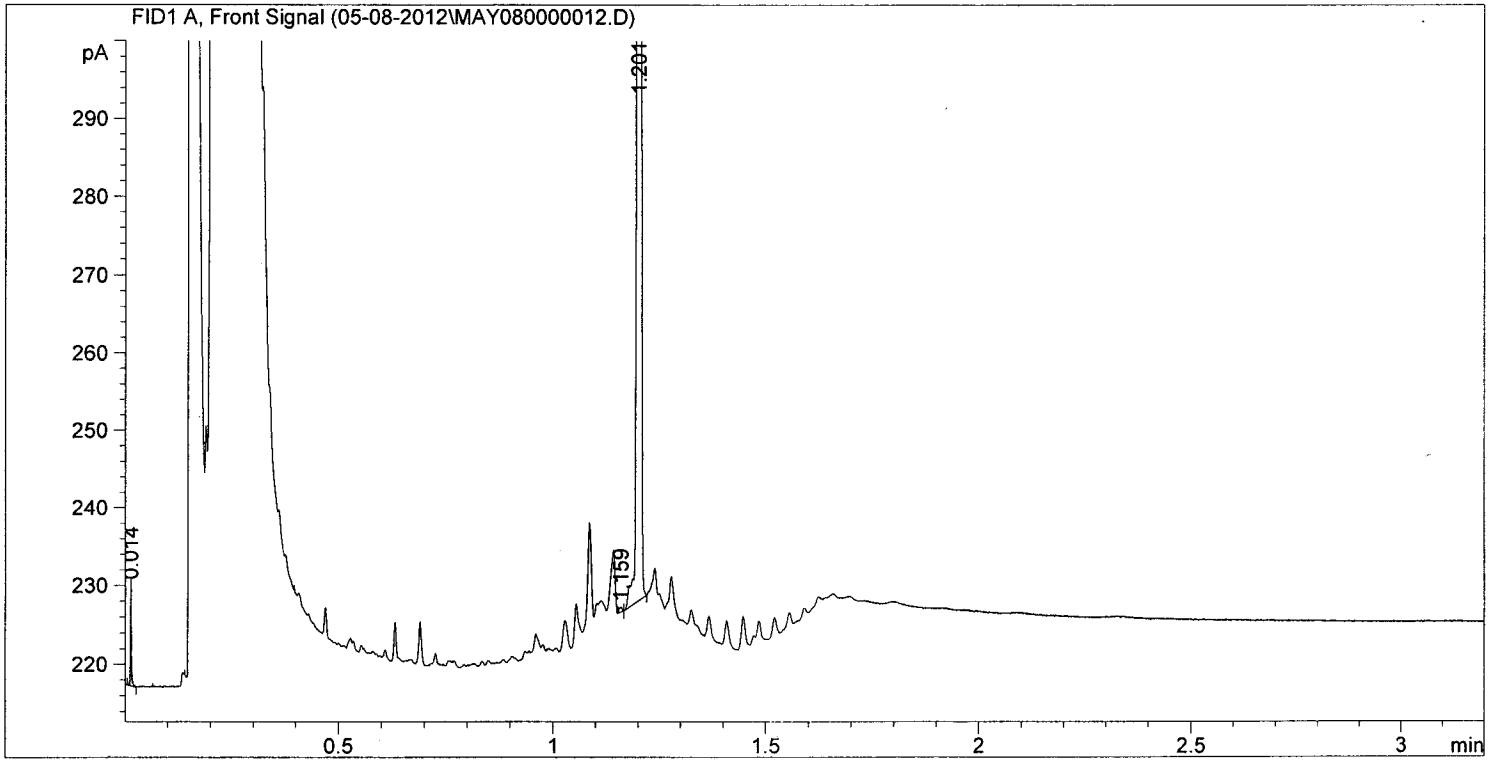
Acq. Operator	: BJH	Seq. Line	: 8
Acq. Instrument	: 333	Location	: Vial 7
Injection Date	: 5/9/2012 14:03:27	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.201	1	BB S	349.22360	9.17388e-2	32.03735		OTP (Surrogate

Totals : 32.03735

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*** End of Report ***

ORGANIC ANALYSIS DATA SHEET
USEPA-8015C

106036

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205085-01
File ID: MAY080000013.D
Sampled: 05/02/12 13:18
Prepared: 05/08/12 08:08
Analyzed: 05/09/12 14:10
Solids:
Preparation: 3510C Liquid-Liquid Ext
Initial/Final: 970 mL / 1 mL
QC Batch: 1205752
Sequence: 2E09056
Calibration: 2D12010
Instrument: 333

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
DRO	DRO - 8015 (C10-C20)	1	200	32	200	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
o-Terphenyl	41.2	33.6	81	45 - 136	

* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000013.D
Sample Name: 1205085-01

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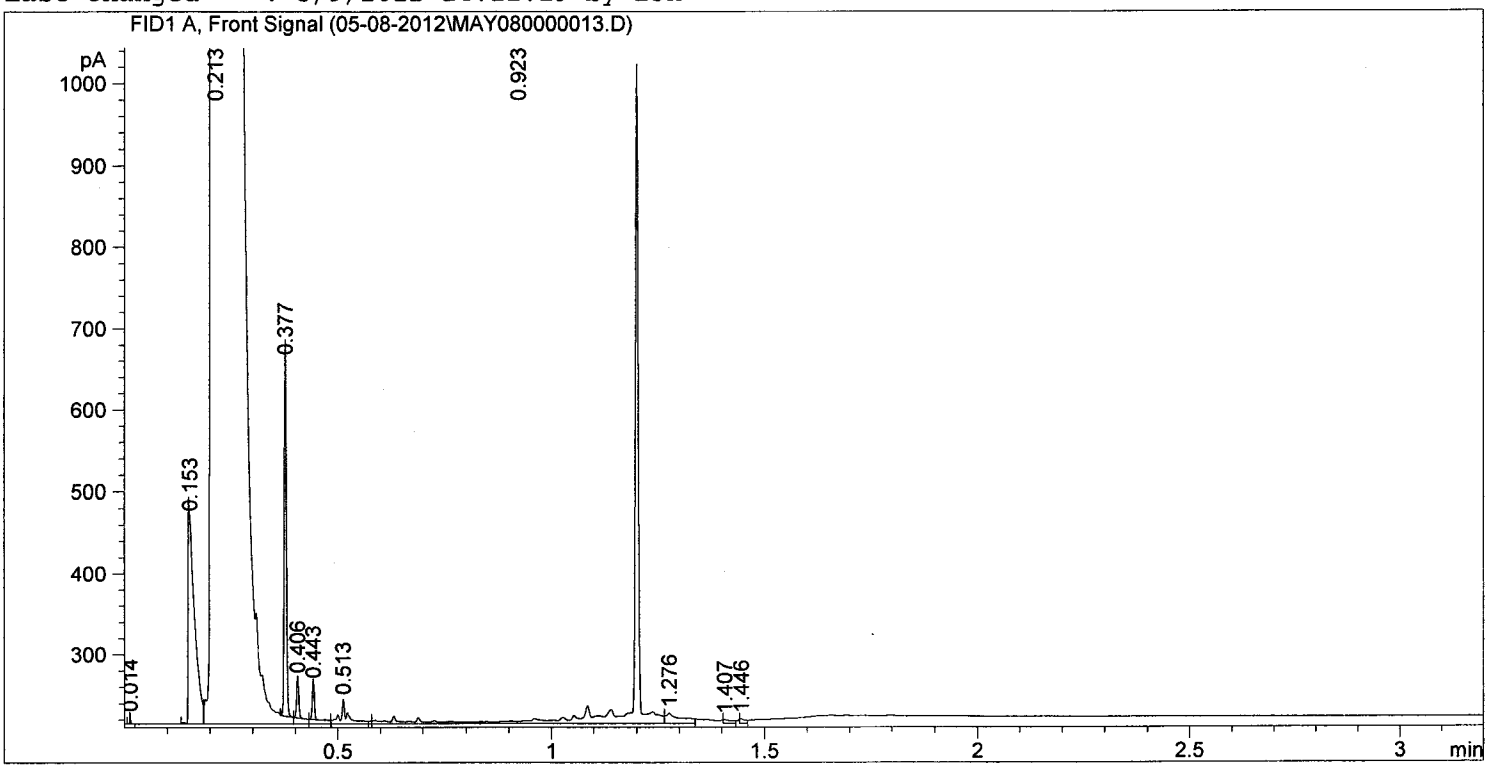
Acq. Operator	: BJH	Seq. Line :	9
Acq. Instrument	: 333	Location :	Vial 8
Injection Date	: 5/9/2012 14:10:24	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.0126	579.24591	0.08353	EPA DRO (C10-C20)

Totals : 579.24591 8.353e-2

1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (EPA DRO (C10-C20))

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000013.D
Sample Name: 1205085-01

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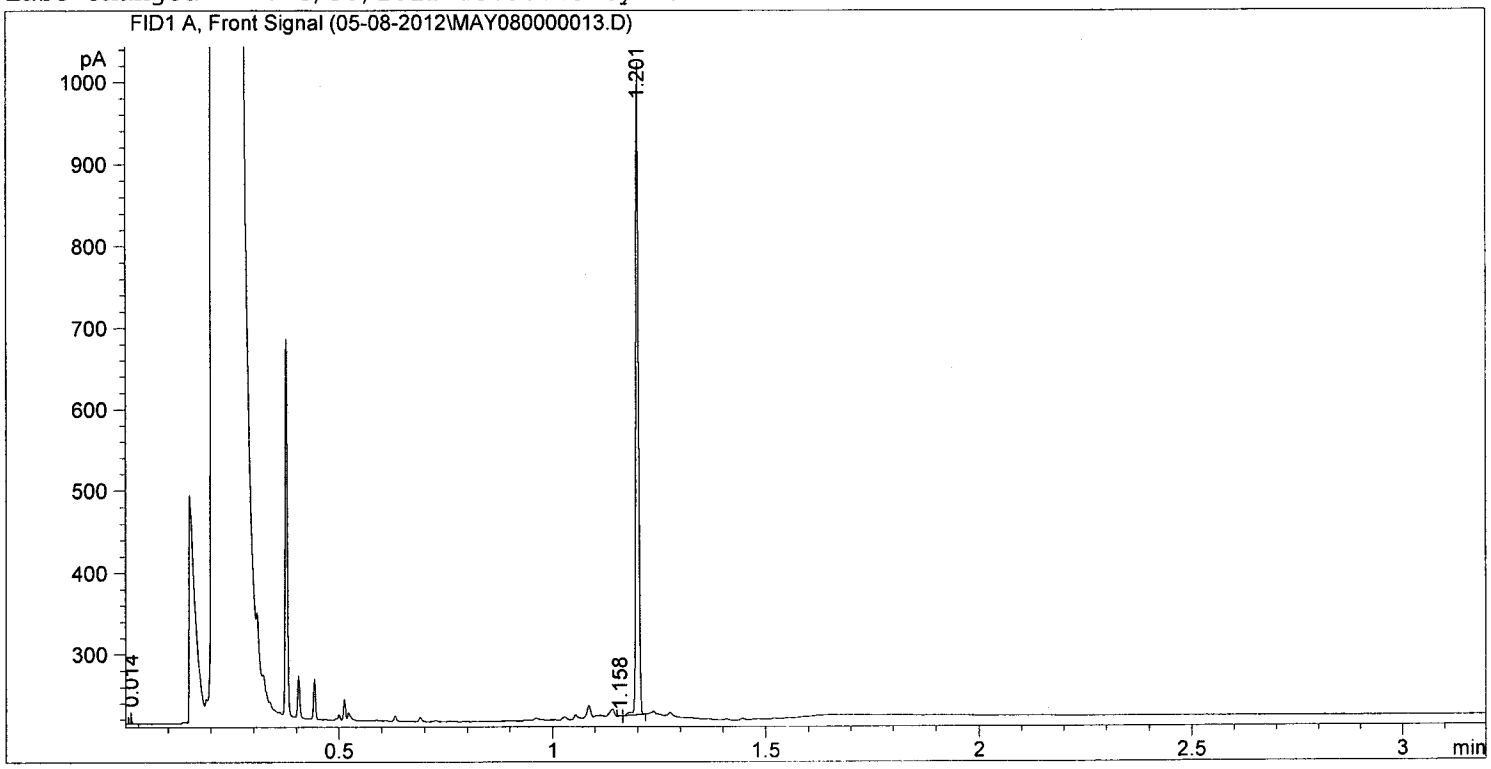
*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000013.D
Sample Name: 1205085-01

==========

Acq. Operator	: BJH	Seq. Line	: 9
Acq. Instrument	: 333	Location	: Vial 8
Injection Date	: 5/9/2012 14:10:24	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.201	1	BB S	355.41306	9.16104e-2	32.55953		OTP (Surrogate

Totals : 32.55953

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*** End of Report ***

ORGANIC ANALYSIS DATA SHEET
USEPA-8015C

106037

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205085-02
File ID: MAY080000014.D
Sampled: 05/02/12 10:44
Prepared: 05/08/12 08:08
Analyzed: 05/09/12 14:17
Solids:
Preparation: 3510C Liquid-Liquid Ext
Initial/Final: 970 mL / 1 mL
QC Batch: 1205752
Sequence: 2E09056
Calibration: 2D12010
Instrument: 333

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
DRO	DRO - 8015 (C10-C20)	1	200	32	200	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
o-Terphenyl	41.2	34.4	83	45 - 136	

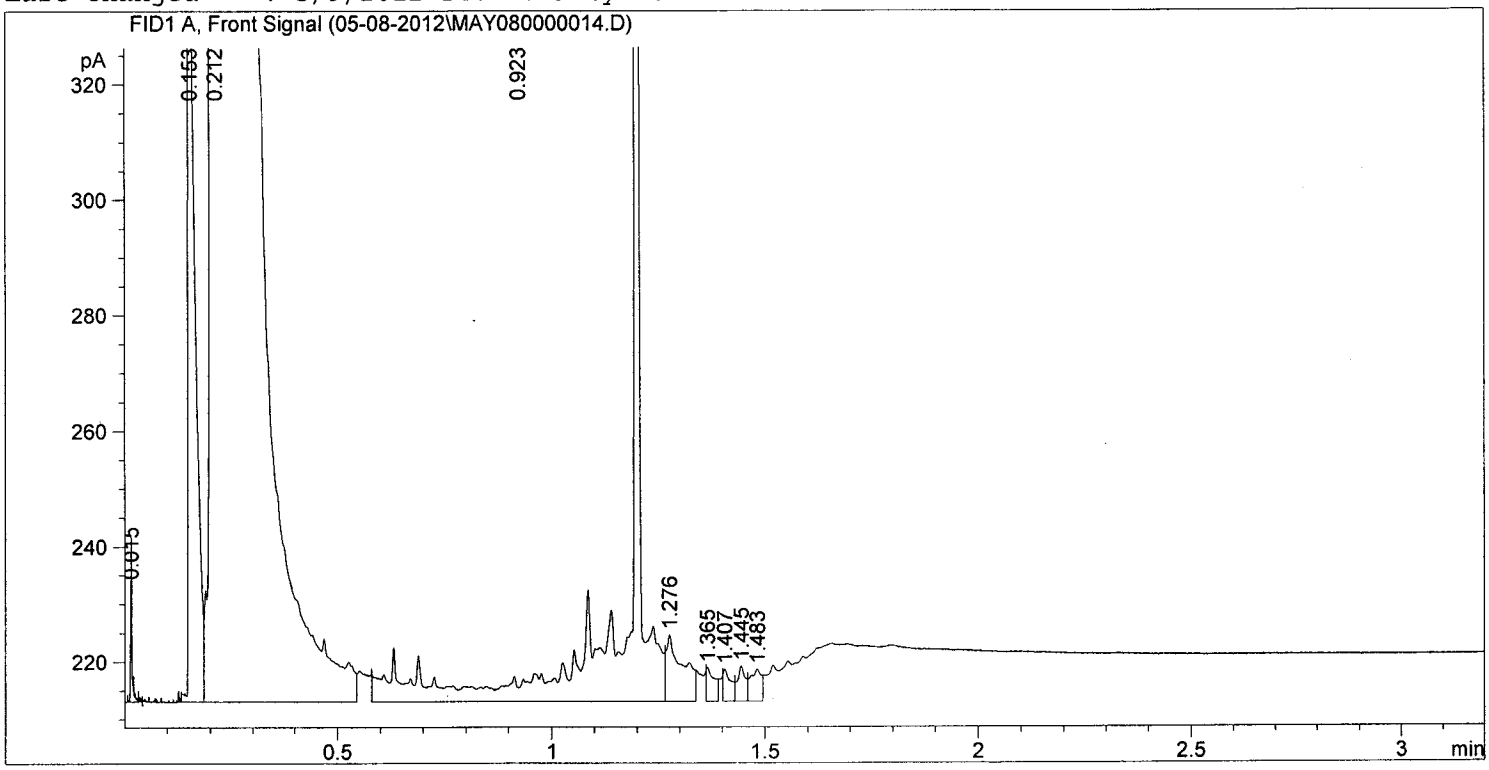
* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000014.D
Sample Name: 1205085-02

==========

Acq. Operator	: BJH	Seq. Line	: 10
Acq. Instrument	: 333	Location	: Vial 9
Injection Date	: 5/9/2012 14:17:19	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.0133	584.07666	0.08367	EPA DRO (C10-C20)

Totals : 584.07666 8.367e-2

1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (EPA DRO (C10-C20))

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000014.D
Sample Name: 1205085-02

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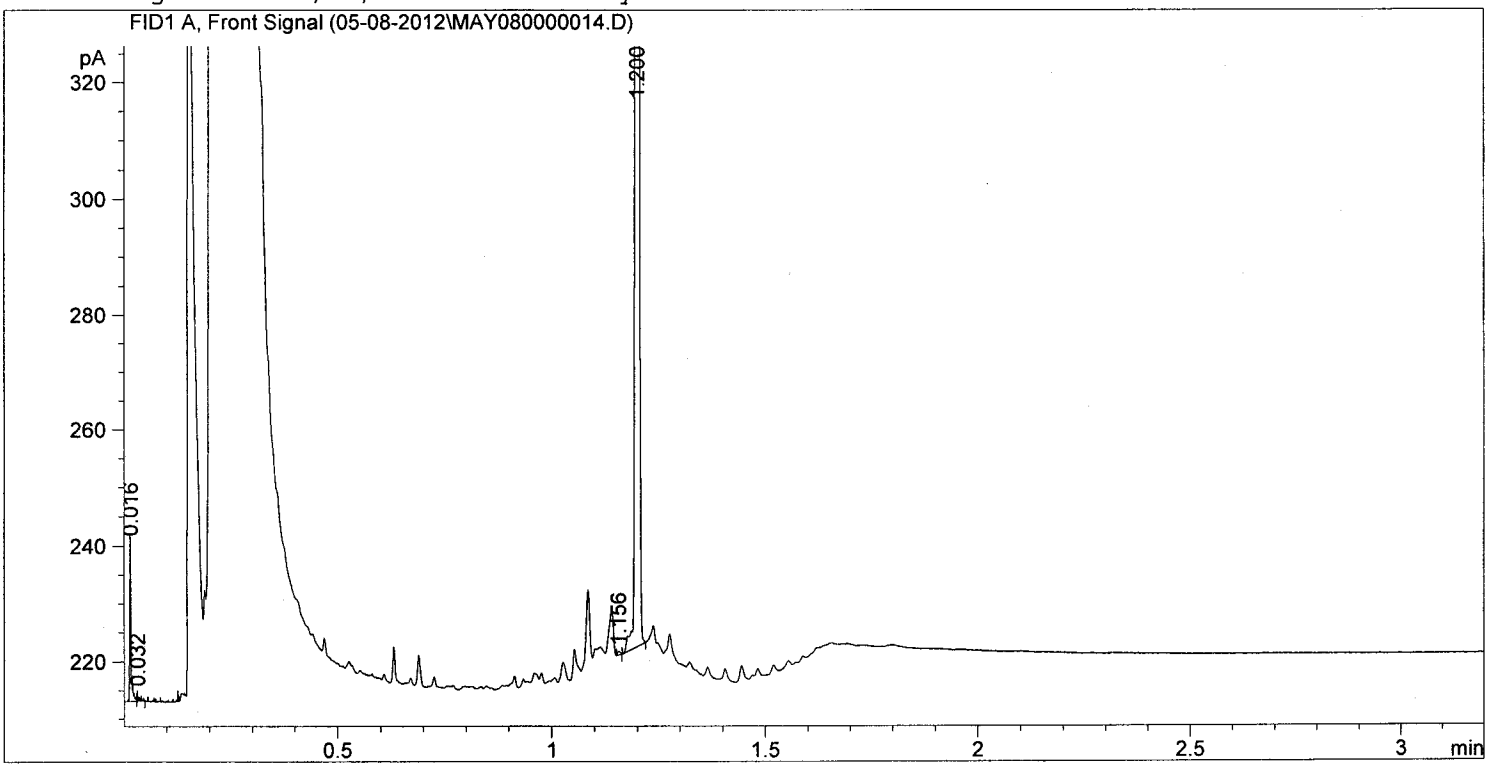
*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000014.D
Sample Name: 1205085-02

==========

Acq. Operator	: BJH	Seq. Line	: 10
Acq. Instrument	: 333	Location	: Vial 9
Injection Date	: 5/9/2012 14:17:19	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.200	1	BB S	364.69067	9.14261e-2	33.34224		OTP (Surrogate

Totals : 33.34224

==========

*** End of Report ***

INITIAL CALIBRATION STANDARDS
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2D12036

SDG: KNM050112
Project: KNM
Calibration: 2D12010
Instrument: 333

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2031318	EPA DRO L1	2D12036-CAL1	MAR280000006.D	03/28/12 09:44
2031317	EPA DRO L2	2D12036-CAL2	MAR280000007.D	03/28/12 09:51
2031316	EPA DRO L3	2D12036-CAL3	MAR280000008.D	03/28/12 09:58
2031315	EPA DRO L4	2D12036-CAL4	MAR280000009.D	03/28/12 10:05
2031314	EPA DRO L5	2D12036-CAL5	MAR280000010.D	03/28/12 10:12
2021118	4000 EPA DRO L6	2D12036-CAL6	MAR280000011.D	03/28/12 10:19
2031320	EPA DRO SCV 1000	2D12036-SCV1	MAR280000012.D	03/28/12 10:26

INITIAL CALIBRATION DATA
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D12010

SDG: KNM050112

Project: KNM

Calibration Date: 03/28/12 08:43

Instrument: 333

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
DRO - 8015 (C10-C20)	125	7.712	250	8.616	500	8.9	1000	8.952	2000	8.966	4000	8.8155
o-Terphenyl	6.25	9.794779	12.5	10.96434	25	11.21783	50	10.82753	100	10.89722	200	11.87115

INITIAL CALIBRATION DATA (Continued)
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D12010

SDG: KNM050112

Project: KNM

Calibration Date: 03/28/12 08:43

Instrument: 333

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
DRO - 8015 (C10-C20)	8.66025	5.56494			0.99988		0.99	
o-Terphenyl	10.92881	6.165436	1.1925	4.661592E-02	0.99826		0.99	

Calibration Table

Calib. Data Modified : 3/27/2012 8:52:39

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear (some peaks differ, see below)
Origin : Included (some peaks differ, see below)
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Lvl	Amount [ng/ul]	Area	Amt/Area	Ref	Grp	Name
0.910	1	1	125.00000	1521.43188	8.21594e-2			EPA DRO (C10-C20)
		2	250.00000	2747.96313	9.09765e-2			
		3	500.00000	5609.15527	8.91400e-2			
		4	1000.00000	1.11865e4	8.93932e-2			
		5	2000.00000	1.98898e4	1.00554e-1			
		6	4000.00000	3.84213e4	1.04109e-1			

More compound-specific settings:

Compound: EPA DRO (C10-C20)
Curve Type : Linear
Origin : Ignored

Peak Sum Table

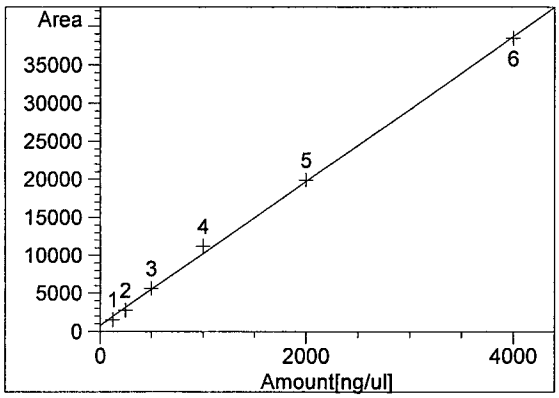
No Entries in table

Jwb 4-18-12

==========

Calibration Curves

==========



EPA DRO (C10-C20) at exp. RT: 0.910
FID1 A, Front Signal
Correlation: 0.99933
Residual Std. Dev.: 575.41298
Formula: y = mx + b
m: 9.47507
b: 793.33194
x: Amount
y: Area

==========

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Calibration Table

==========

Surrogate

Calib. Data Modified : 3/28/2012 11:58:53

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Lvl	Amount [ng/ul]	Area	Amt/Area	Ref	Grp	Name
1.193	1	1	6.25000	61.21737	1.02095e-1			OTP (Surrogate
		2	12.50000	137.05426	9.12048e-2			
		3	25.00000	280.44580	8.91438e-2			
		4	50.00000	541.37646	9.23572e-2			
		5	100.00000	1089.72241	9.17665e-2			
		6	200.00000	2374.23145	8.42378e-2			

More compound-specific settings:

Compound: OTP (Surrogate
Curve Type : Linear
Origin : Ignored

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Peak Sum Table

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No Entries in table

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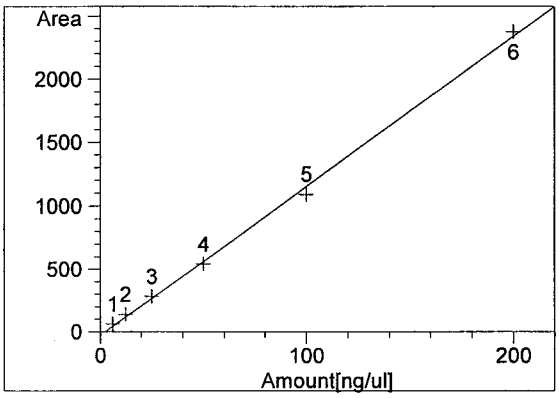
Calibration Curves

==========



OTP (Surrogate at exp. RT: 1.193
FID1 A, Front Signal
Correlation: 0.99913
Residual Std. Dev.: 41.02569
Formula: y = mx + b
m: 11.85310
b: -30.51818
x: Amount
y: Area

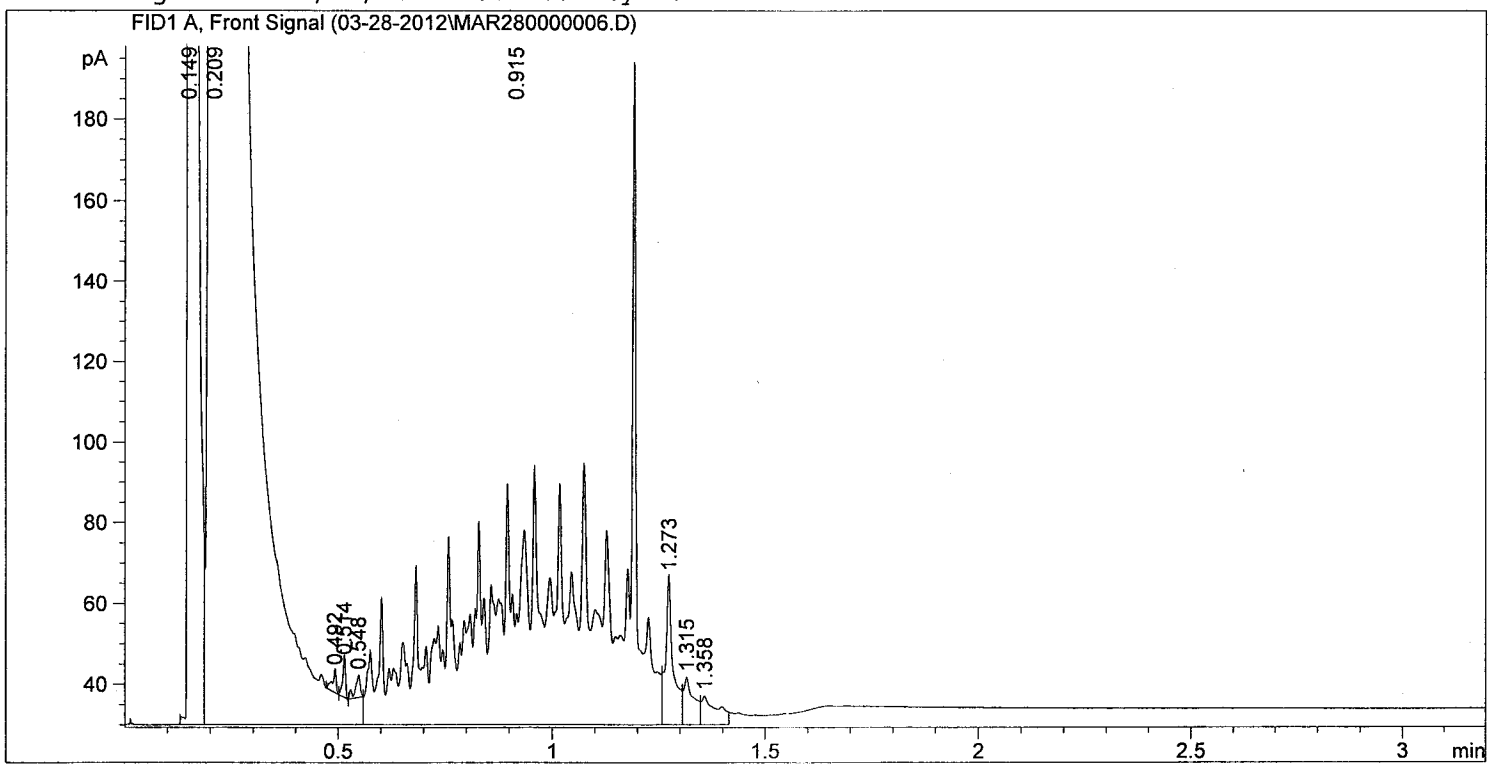
==========

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000006.D
Sample Name: L1

==========

Acq. Operator	: BJH	Seq. Line	: 4
Acq. Instrument	: 333	Location	: Vial 3
Injection Date	: 3/28/2012 9:44:52	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.1185	1099.75220	0.16722	EPA DRO (C10-C20)

Totals : 1099.75220 0.1672

==========

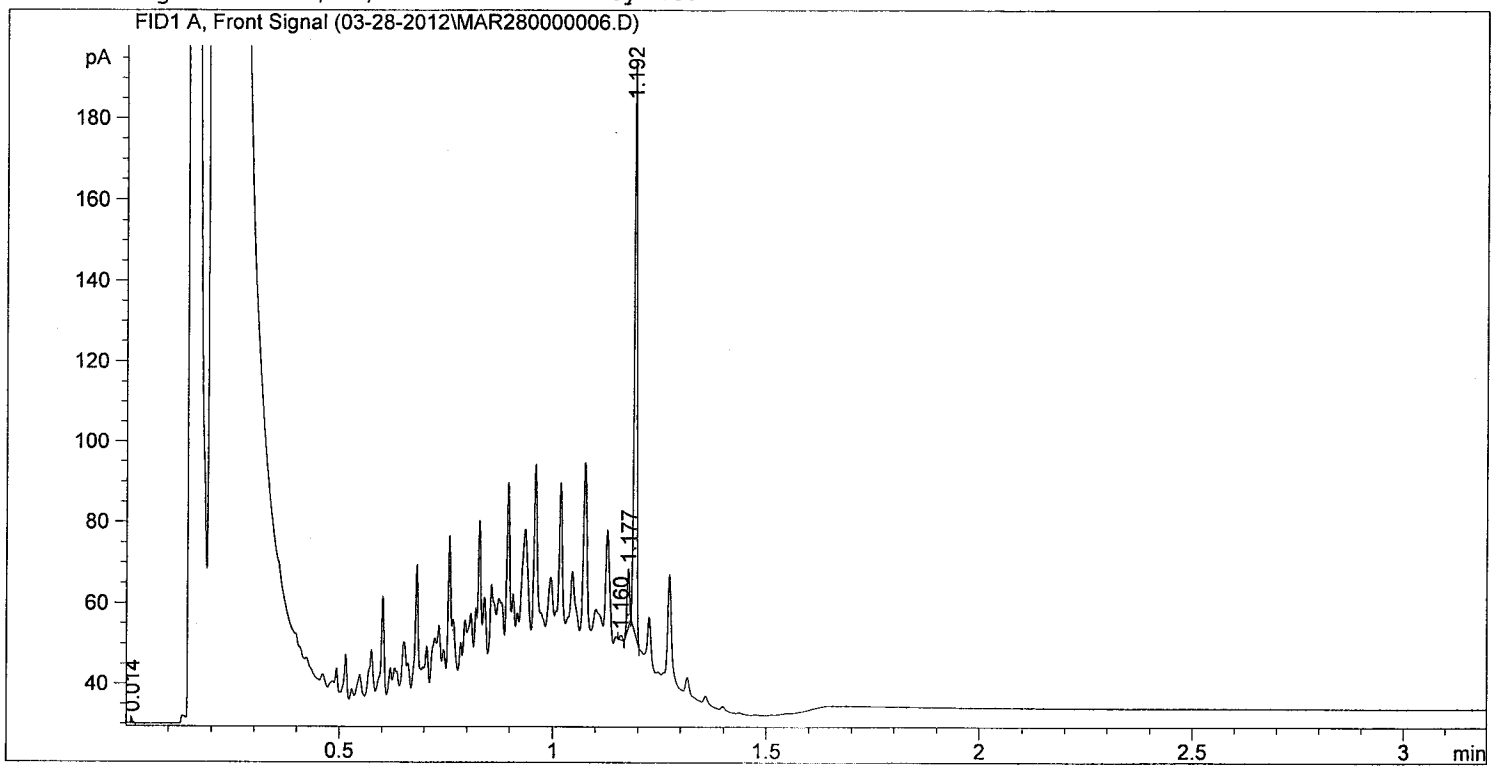
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000006.D
Sample Name: L1

==========

Acq. Operator	: BJH	Seq. Line	: 4
Acq. Instrument	: 333	Location	: Vial 3
Injection Date	: 3/28/2012 9:44:52	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 3/28/2012 11:59:11 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 3/28/2012 11:58:53
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.192	1	BB	61.21737	1.26424e-1	7.73937		OTP (Surrogate

Totals : 7.73937

==========

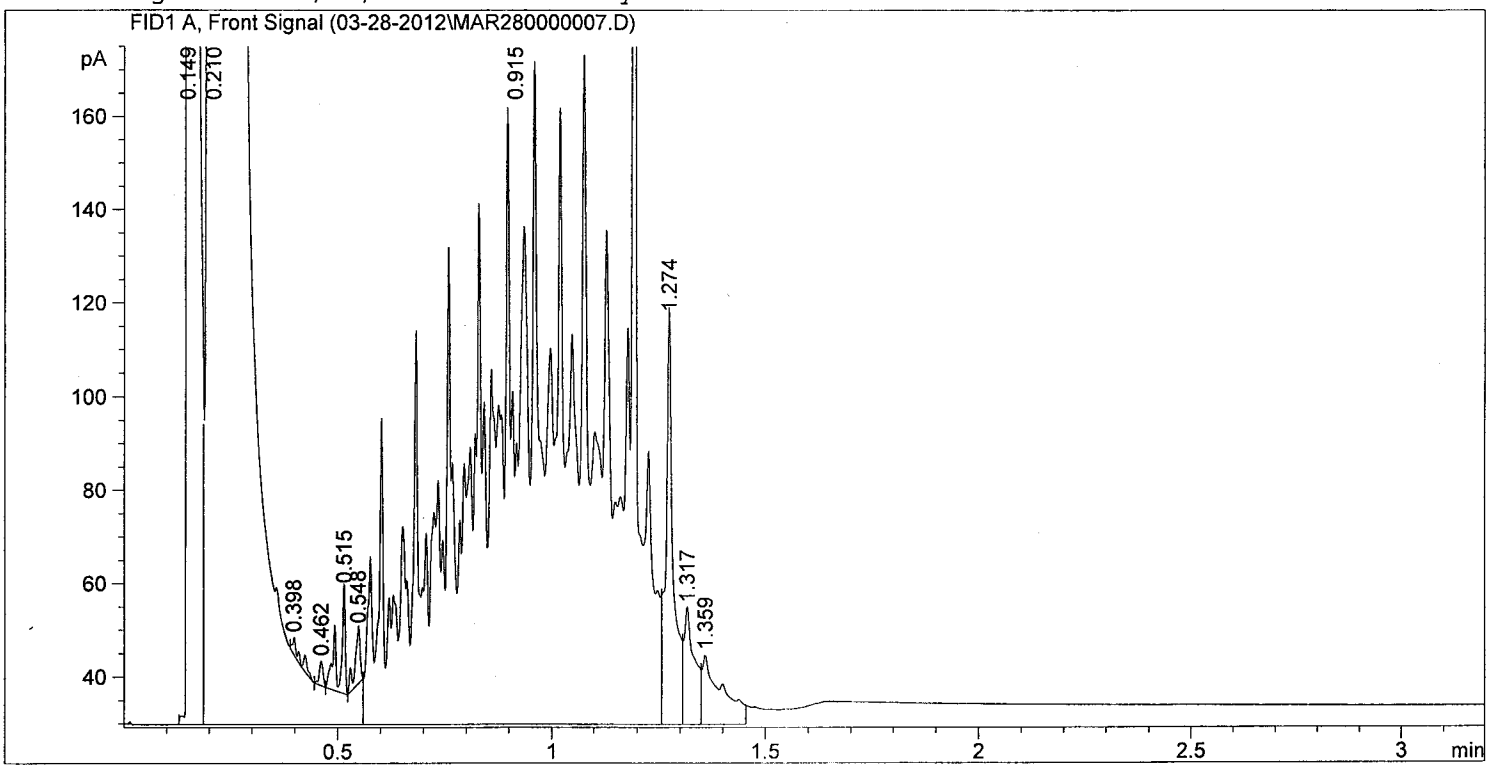
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000007.D
Sample Name: L2

==========

Acq. Operator	: BJH	Seq. Line :	5
Acq. Instrument	: 333	Location :	Vial 4
Injection Date	: 3/28/2012 9:51:47	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.1123	2383.58545	0.33547	EPA DRO (C10-C20)

Totals : 2383.58545 0.3355

==========

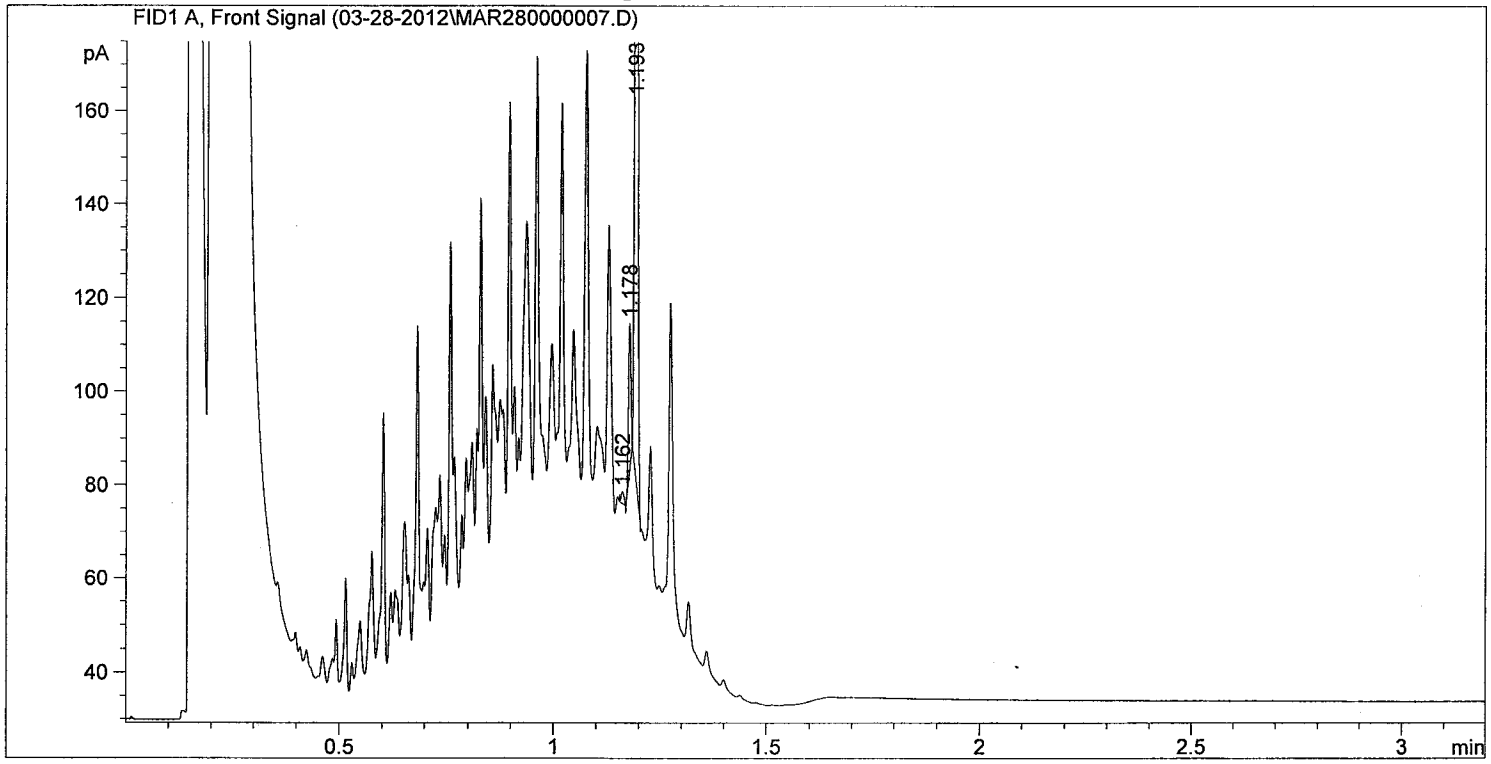
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000007.D
Sample Name: L2

==========

Acq. Operator	: BJH	Seq. Line :	5
Acq. Instrument	: 333	Location :	Vial 4
Injection Date	: 3/28/2012 9:51:47	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 3/28/2012 11:59:11 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 3/28/2012 11:58:53
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.193	1	BB	137.05426	1.03152e-1	14.13744		OTP (Surrogate

Totals : 14.13744

==========

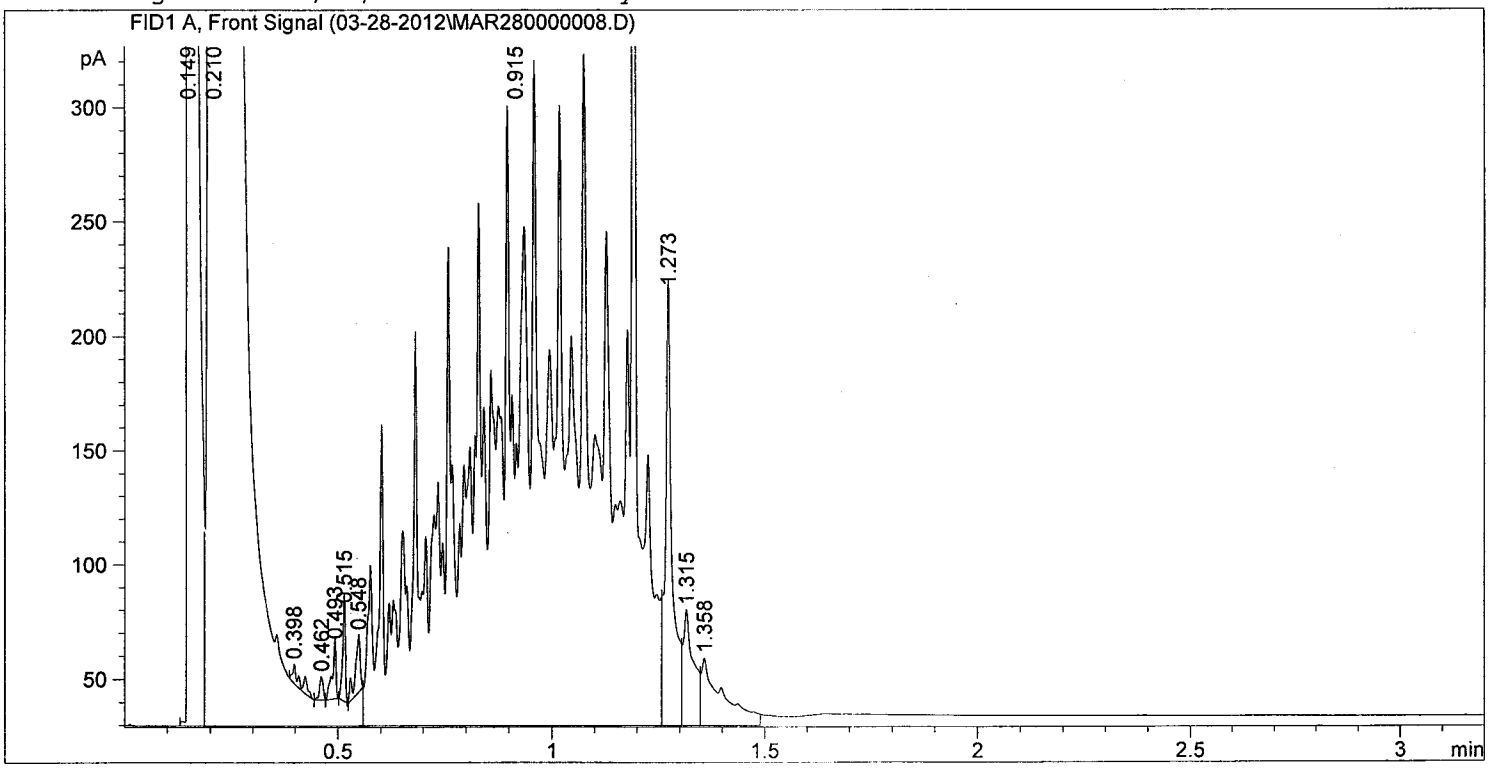
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000008.D
Sample Name: L3

==========

Acq. Operator	: BJH	Seq. Line :	6
Acq. Instrument	: 333	Location :	Vial 5
Injection Date	: 3/28/2012 9:58:44	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.1129	4823.69727	0.67675	EPA DRO (C10-C20)

Totals : 4823.69727 0.6768

==========

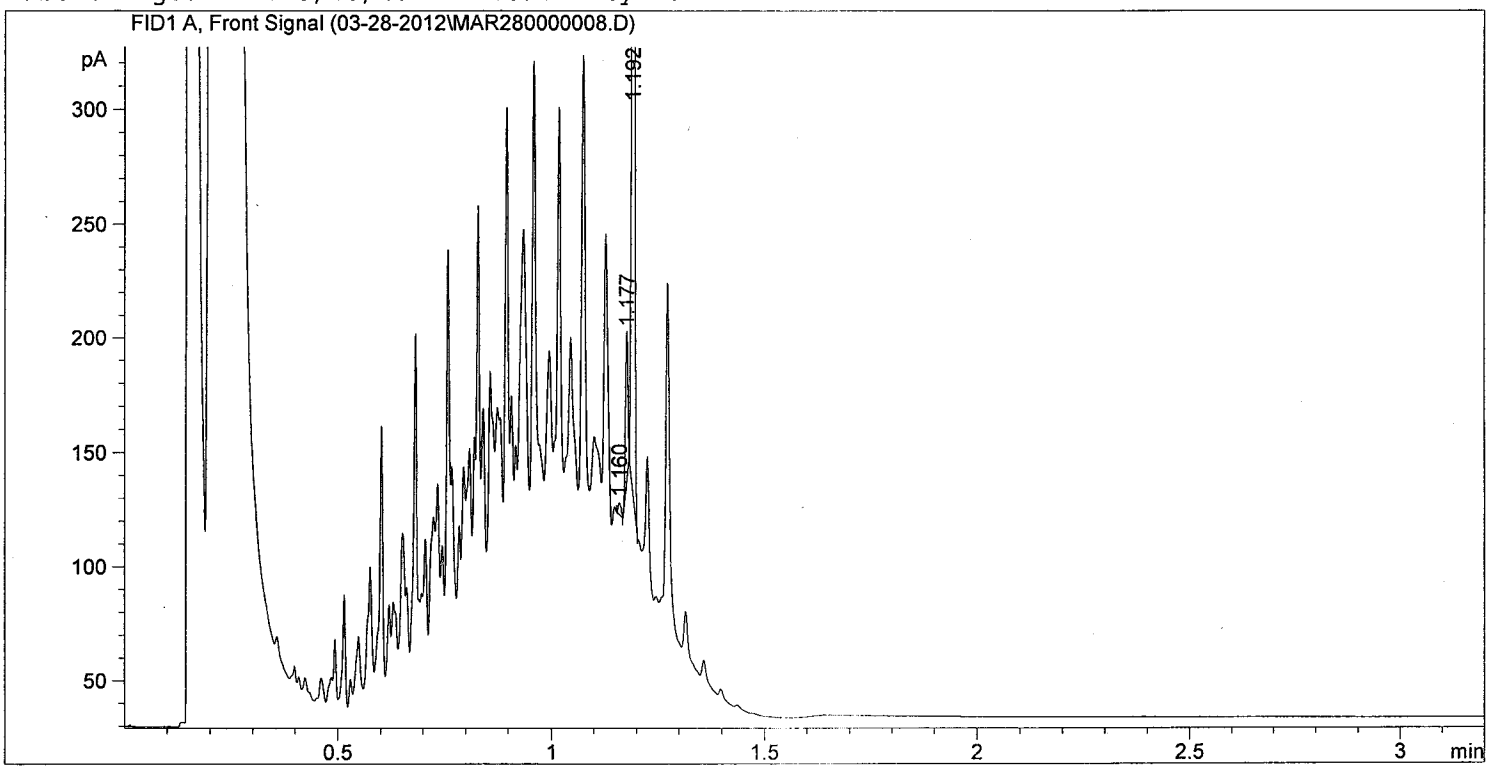
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000008.D
Sample Name: L3

==========

Acq. Operator	: BJH	Seq. Line :	6
Acq. Instrument	: 333	Location :	Vial 5
Injection Date	: 3/28/2012 9:58:44	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 3/28/2012 11:59:11 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 3/28/2012 11:58:53
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.192	1	BB	280.44580	9.35469e-2	26.23483		OTP (Surrogate

Totals : 26.23483

==========

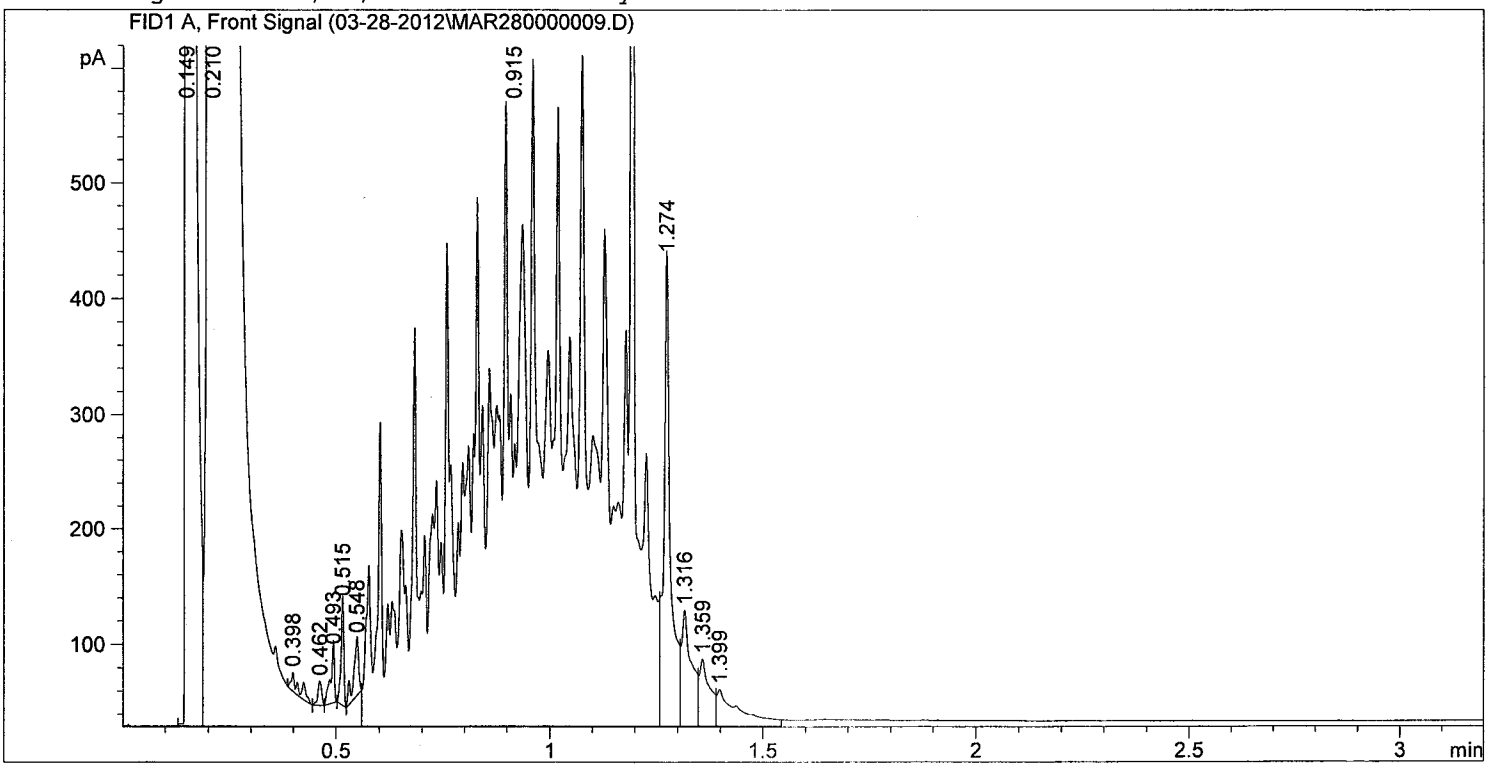
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000009.D
Sample Name: L4

==========

Acq. Operator	: BJH	Seq. Line	: 7
Acq. Instrument	: 333	Location	: Vial 6
Injection Date	: 3/28/2012 10:05:38	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.1145	9586.16406	1.32579	EPA DRO (C10-C20)

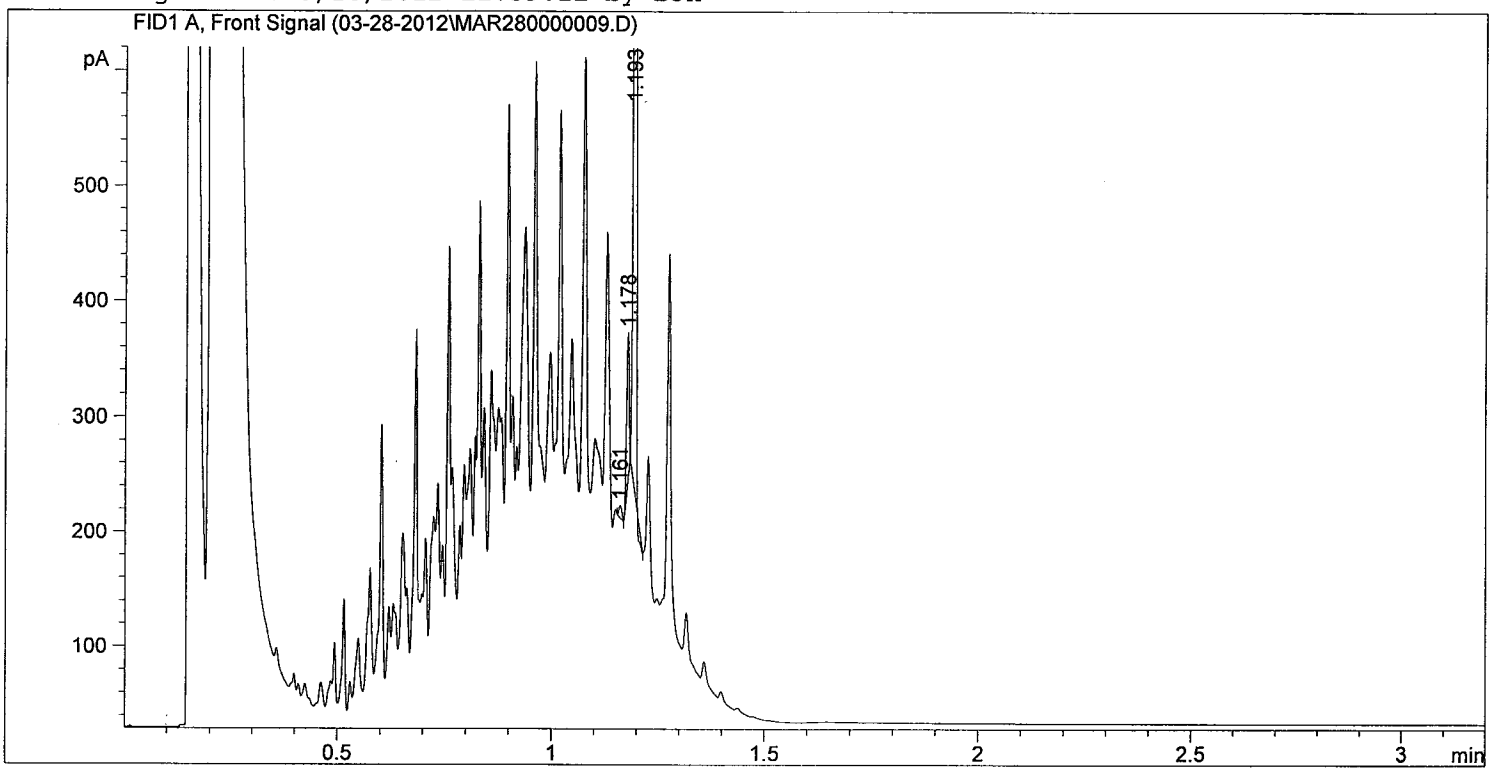
Totals : 9586.16406 1.3258

==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000009.D
Sample Name: L4

Acq. Operator	: BJH	Seq. Line :	7
Acq. Instrument	: 333	Location :	Vial 6
Injection Date	: 3/28/2012 10:05:38	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\METHODS\DRO_BF.M		
Last changed	: 3/31/2011 14:59:06 by ASC		
Analysis Method	: C:\CHEM32\1\METHODS\03282012 SURR+CAL.M		
Last changed	: 3/28/2012 11:59:11 by BJH		



External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 3/28/2012 11:58:53
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.193	1	BB S	541.37646	8.91220e-2	48.24854		OTP (Surrogate

Totals : 48.24854

*** End of Report ***

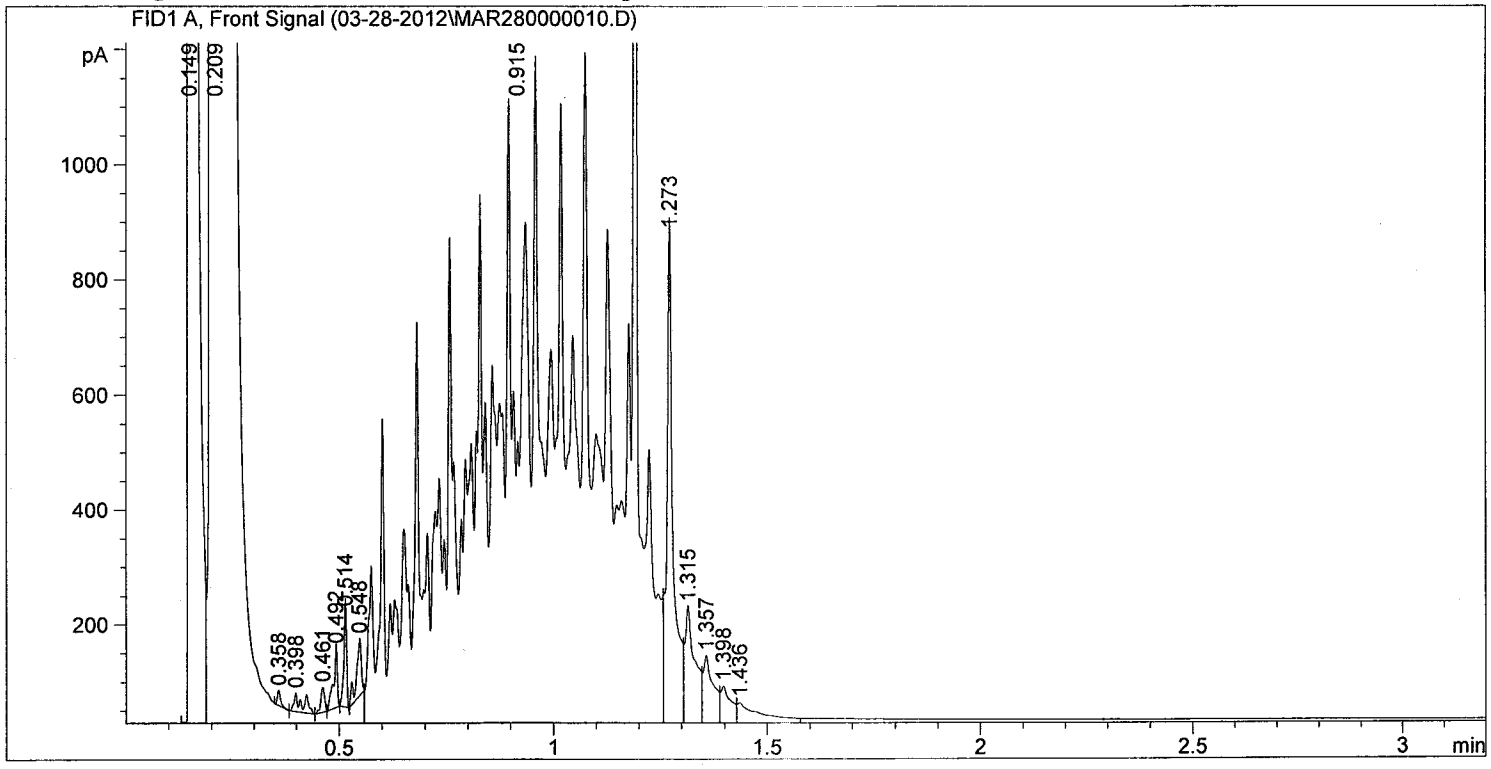
Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000010.D
Sample Name: L5

==========

Acq. Operator : BJH
Acq. Instrument : 333
Injection Date : 3/28/2012 10:12:36

Seq. Line : 8
Location : Vial 7
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.1132	1.91150e4	2.59370	EPA DRO (C10-C20)

Totals : 1.91150e4 2.5937

==========

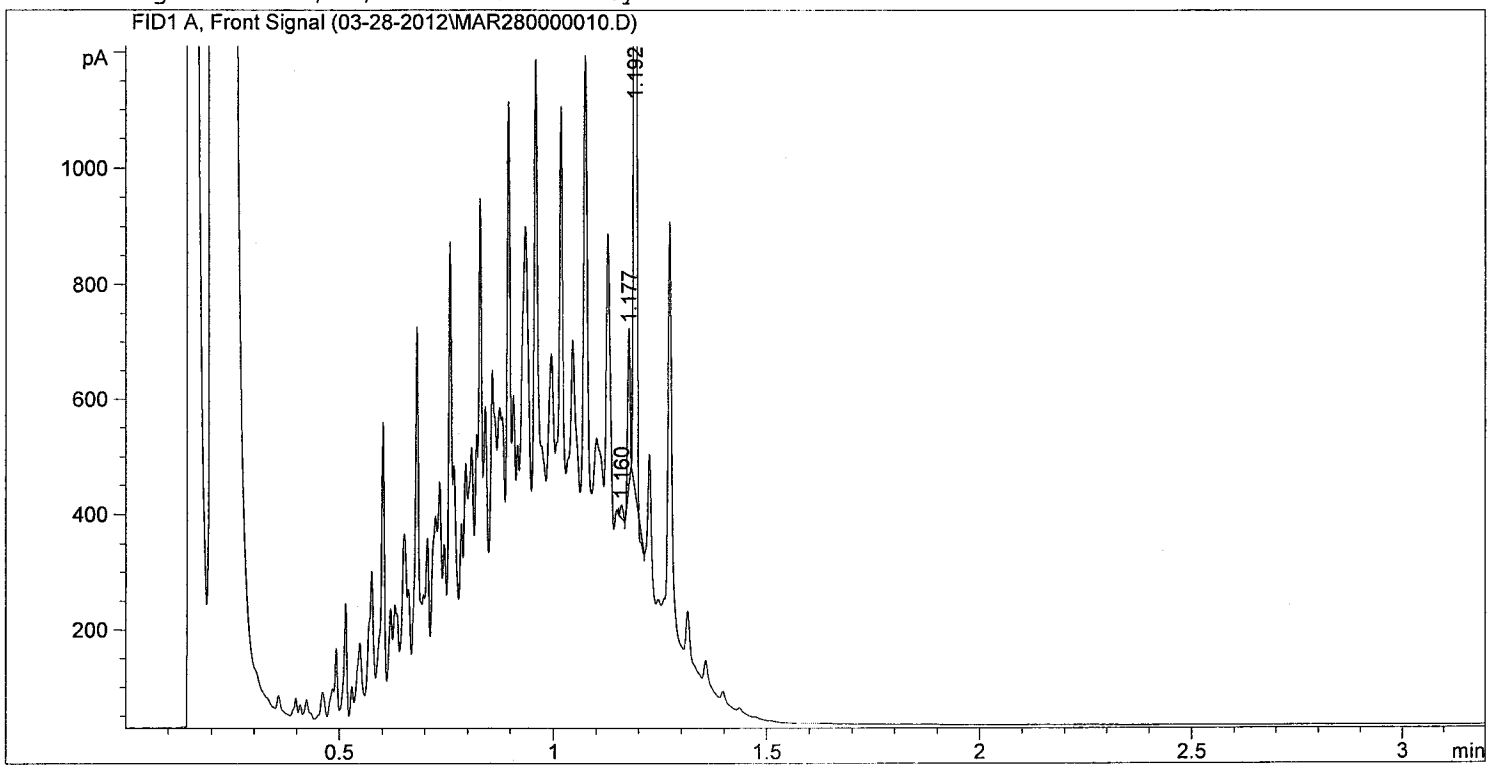
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000010.D
Sample Name: L5

==========

Acq. Operator	: BJH	Seq. Line	: 8
Acq. Instrument	: 333	Location	: Vial 7
Injection Date	: 3/28/2012 10:12:36	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 3/28/2012 11:59:11 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 3/28/2012 11:58:53
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.192	1	BB S	1089.72241	8.67289e-2	94.51037		OTP (Surrogate

Totals : 94.51037

==========

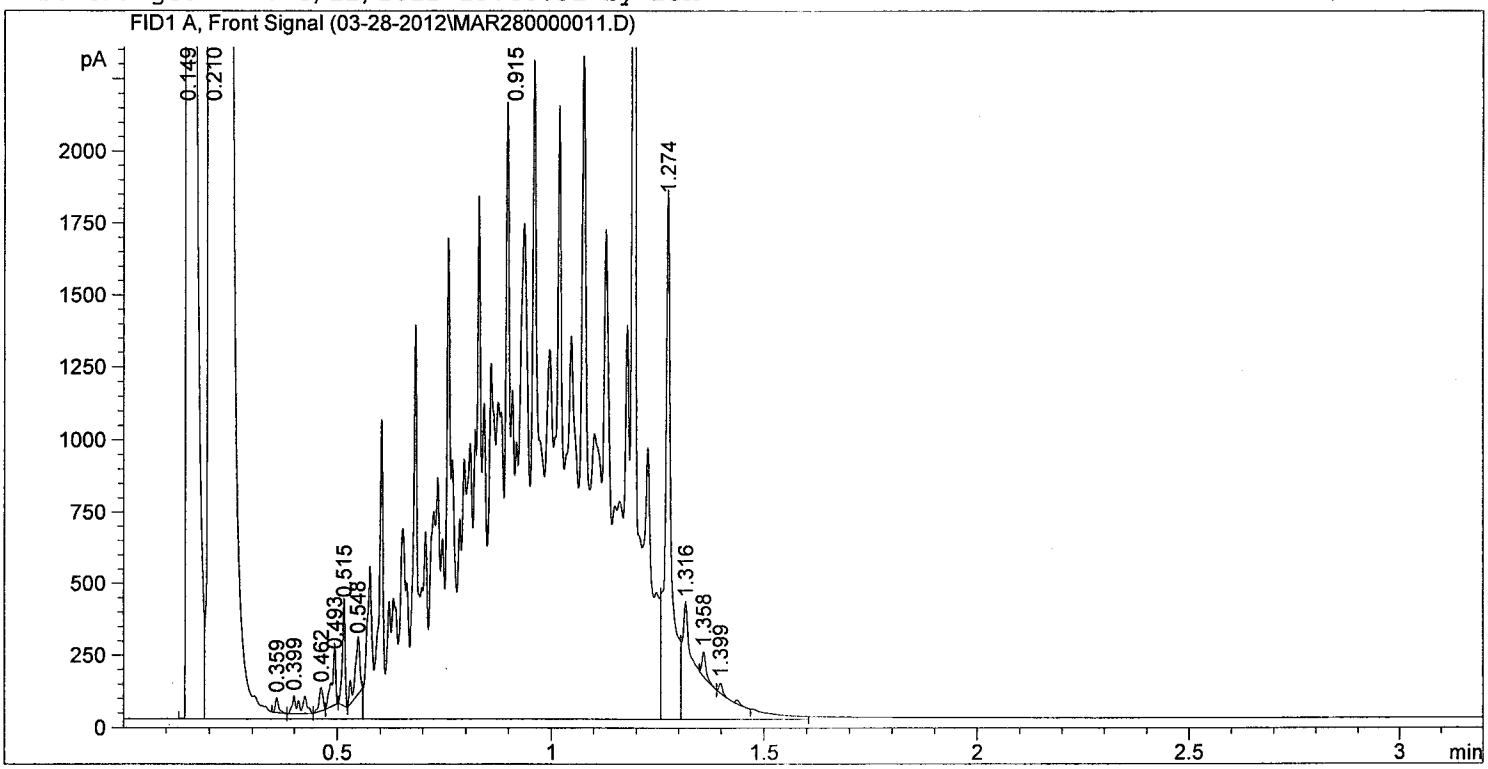
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000011.D
Sample Name: L6

==========

Acq. Operator	: BJH	Seq. Line :	9
Acq. Instrument	: 333	Location :	Vial 8
Injection Date	: 3/28/2012 10:19:35	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.1105	3.77292e4	4.97223	EPA DRO (C10-C20)

Totals : 3.77292e4 4.9722

==========

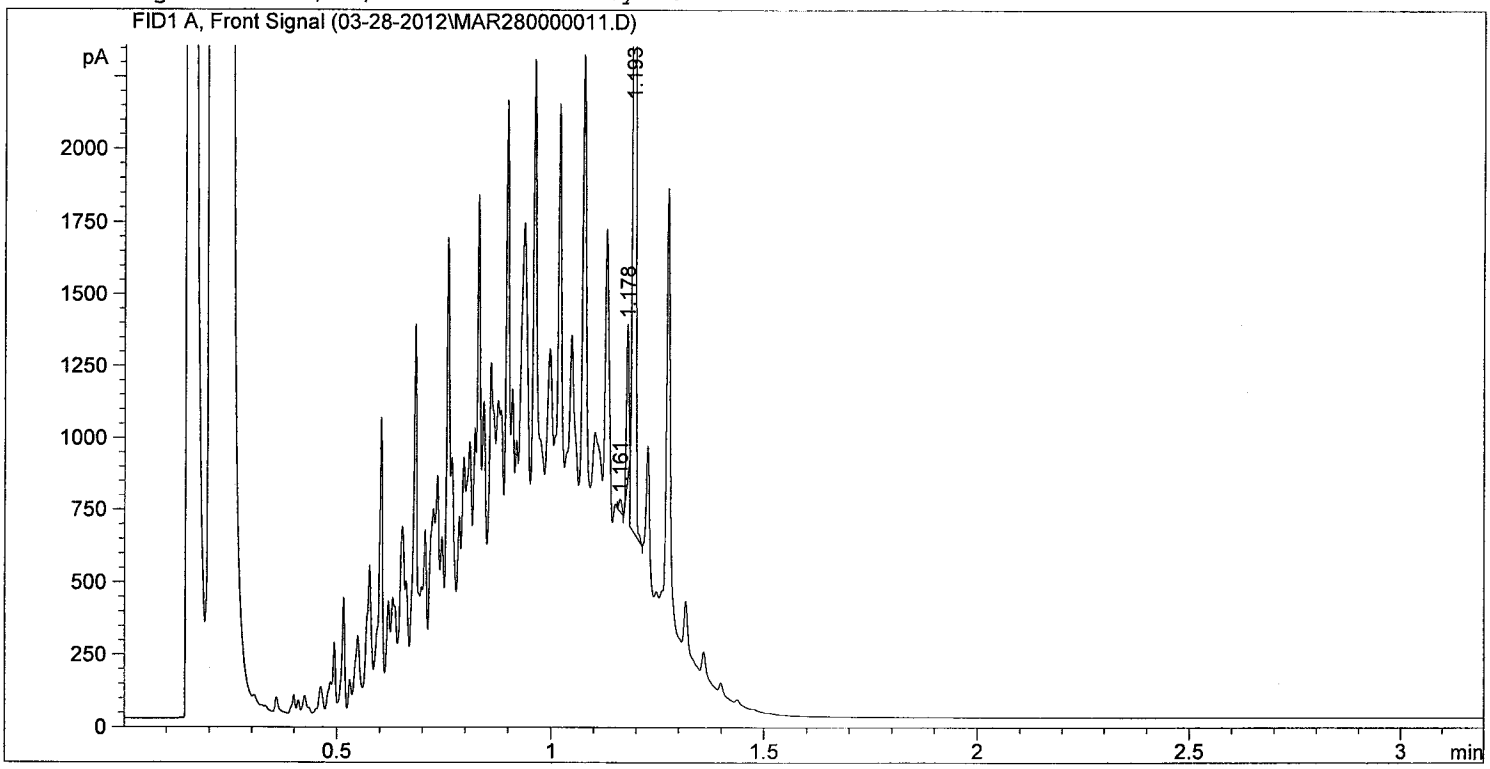
*** End of Report ***

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000011.D
Sample Name: L6

==========

Acq. Operator	: BJH	Seq. Line :	9
Acq. Instrument	: 333	Location :	Vial 8
Injection Date	: 3/28/2012 10:19:35	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 3/28/2012 11:59:11 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 3/28/2012 11:58:53
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.193	1	VB S	2374.23145	8.54506e-2	202.87944		OTP (Surrogate

Totals : 202.87944

==========

*** End of Report ***

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Laboratory ID: 2D12036-SCV1

Sequence: 2D12036

SDG: KNM050112

Project: KNM

Standard ID: 2031320

Calibration: 2D12010

Analyte	Expected (ug/mL)	Found (ug/mL)	% Rec.	QC Limit
DRO - 8015 (C10-C20)	1000	983	98	75-125
o-Terphenyl	50.0	45.0	90	75-125

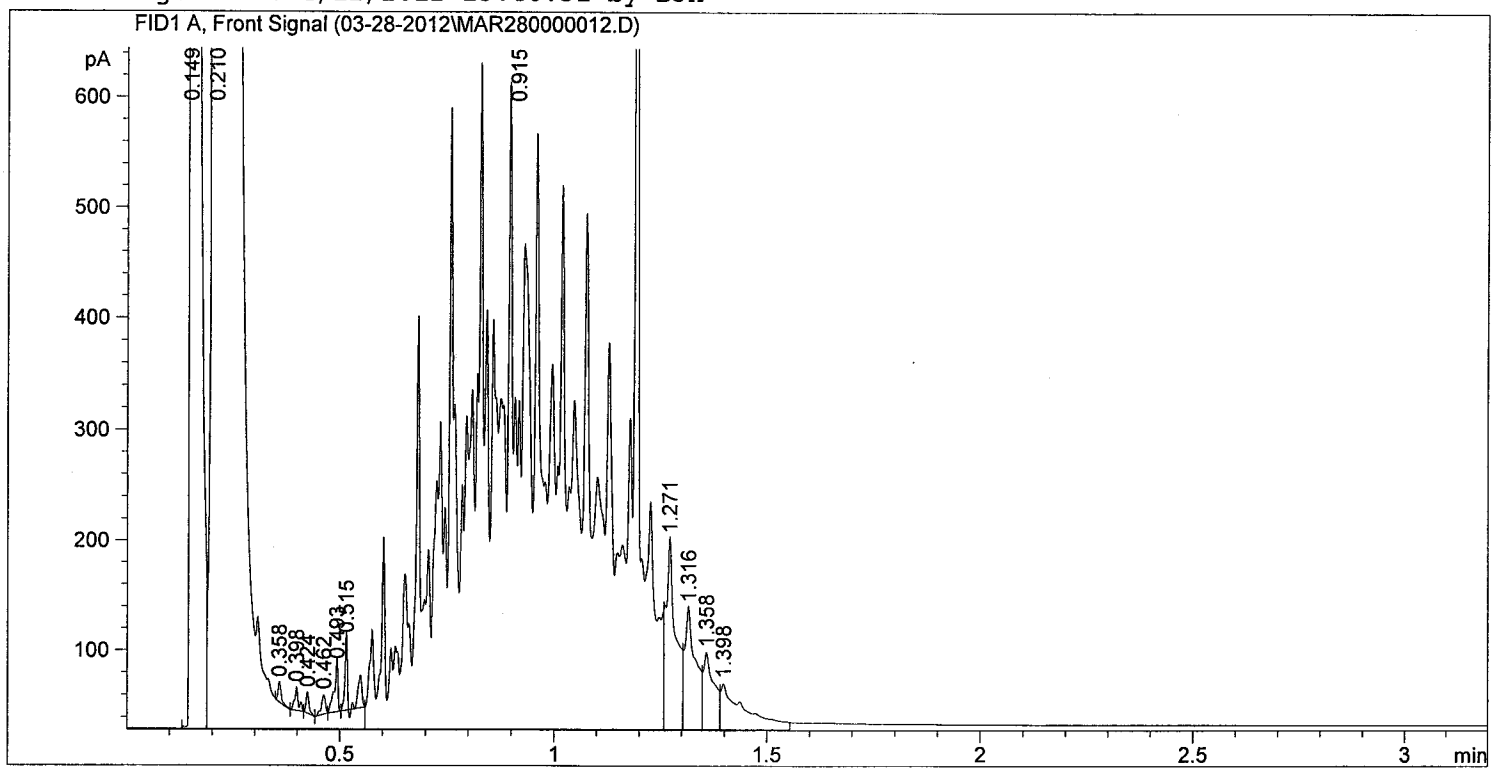
* Values outside of QC limits

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000012.D
Sample Name: SCV

==========

Acq. Operator	: BJH	Seq. Line	: 10
Acq. Instrument	: 333	Location	: Vial 9
Injection Date	: 3/28/2012 10:26:30	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.1238	9291.92090	1.30728	EPA DRO (C10-C20)

Totals : 9291.92090 1.3073

==========

*** End of Report ***

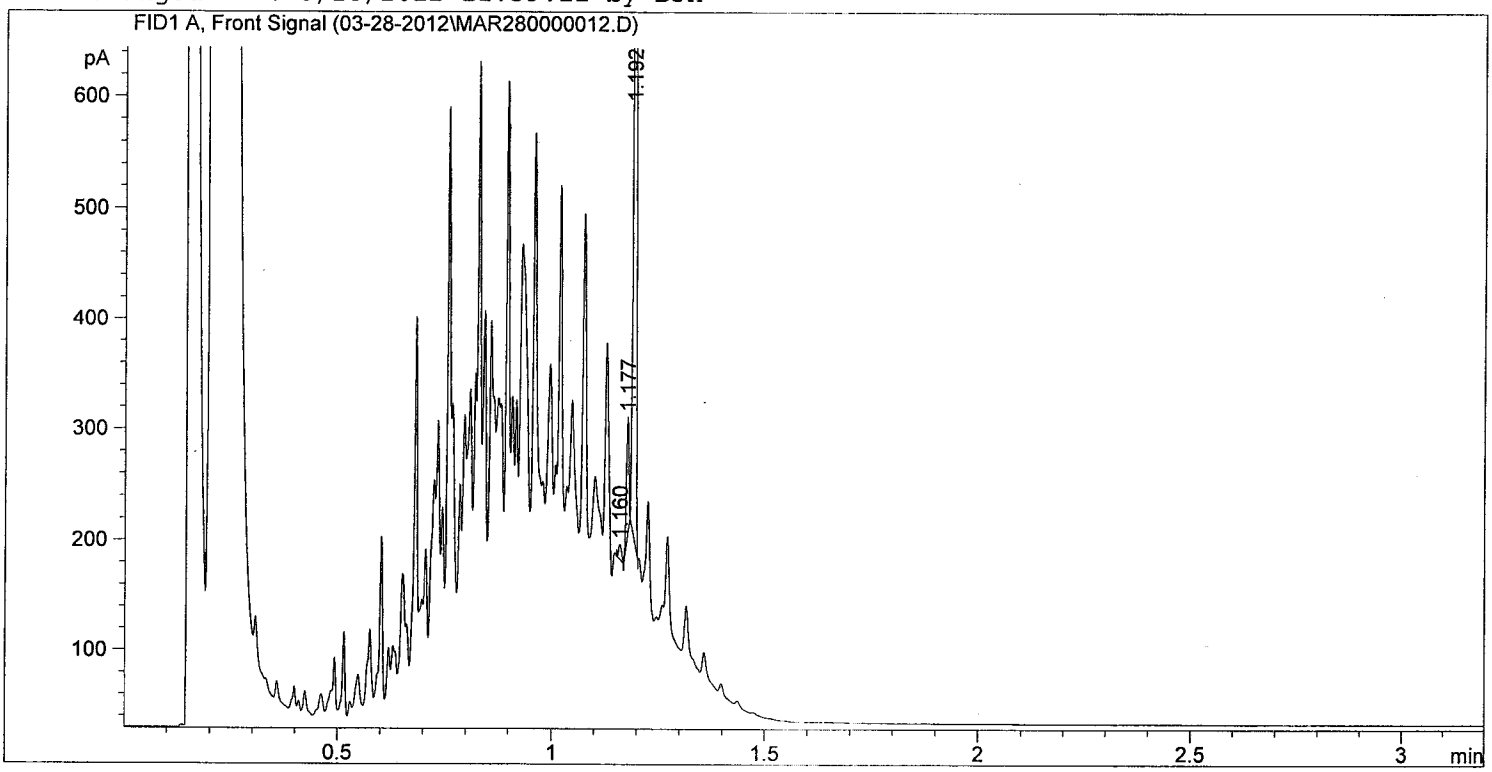
JWB 4-18-12

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000012.D
Sample Name: SCV

==========

Acq. Operator	: BJH	Seq. Line	: 10
Acq. Instrument	: 333	Location	: Vial 9
Injection Date	: 3/28/2012 10:26:30	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 3/28/2012 11:59:11 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 3/28/2012 11:58:53
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.192	1	BB S	502.83121	8.94865e-2	44.99663		OTP (Surrogate

Totals : 44.99663

==========

*** End of Report ***

CONTINUING CALIBRATION CHECK
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Lab Sample ID: 2E09056-CCV1
Lab File ID: MAY080000008.D
Injection Date: 05/09/12
Injection Time: 13:35
Calibration Date: 03/28/12 08:43
Calibration: 2D12010
Sequence: 2E09056
Instrument ID: 333

Analyte	Type	CONC. (ug/mL)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
DRO - 8015 (C10-C20)	L	1000	936	8.66025	8.827059		-6.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

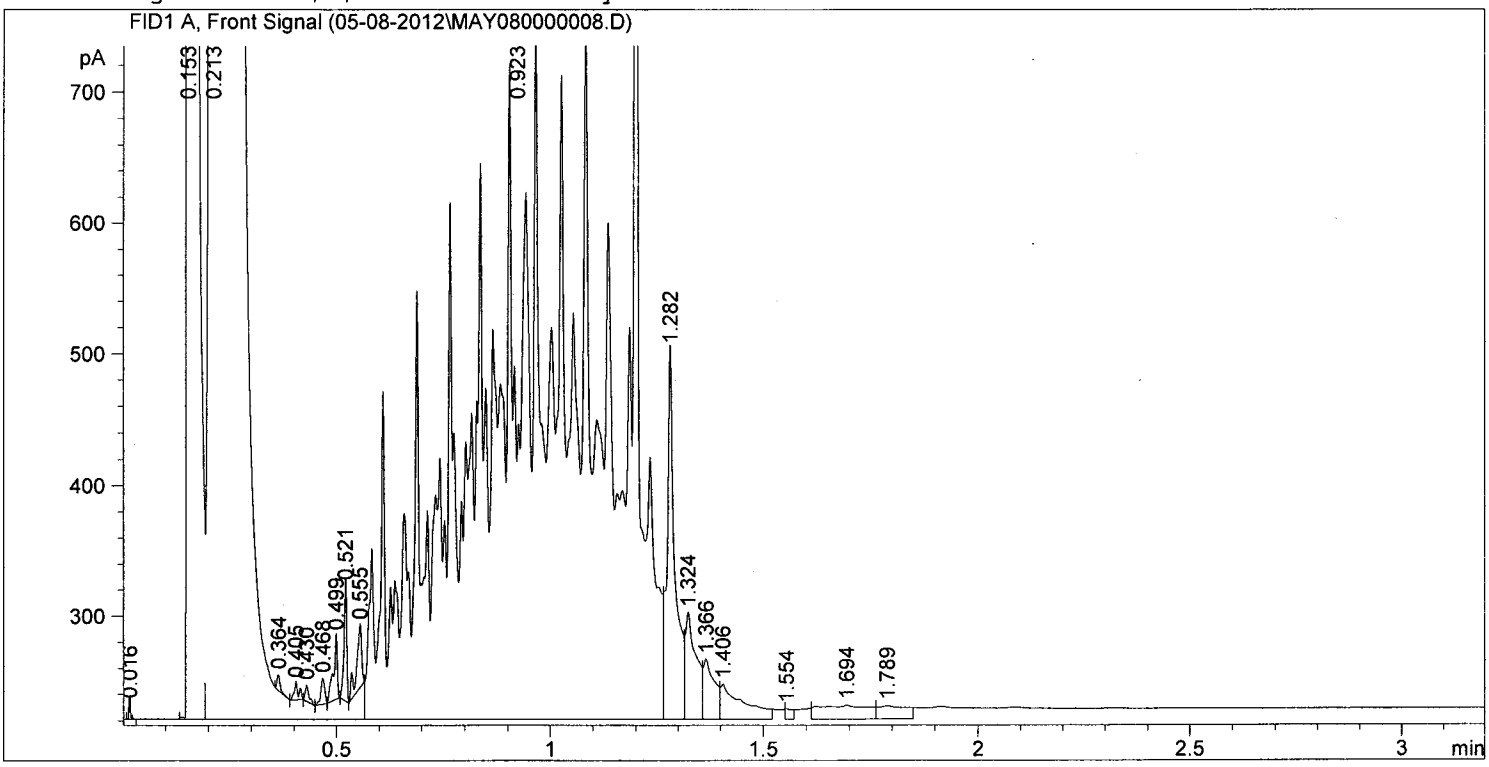
* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000008.D
Sample Name: CCV1

==========

Acq. Operator	: BJH	Seq. Line	: 4
Acq. Instrument	: 333	Location	: Vial 3
Injection Date	: 5/9/2012 13:35:37	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.1161	8827.05859	1.25408	EPA DRO (C10-C20)

Totals : 8827.05859 1.2541

==========

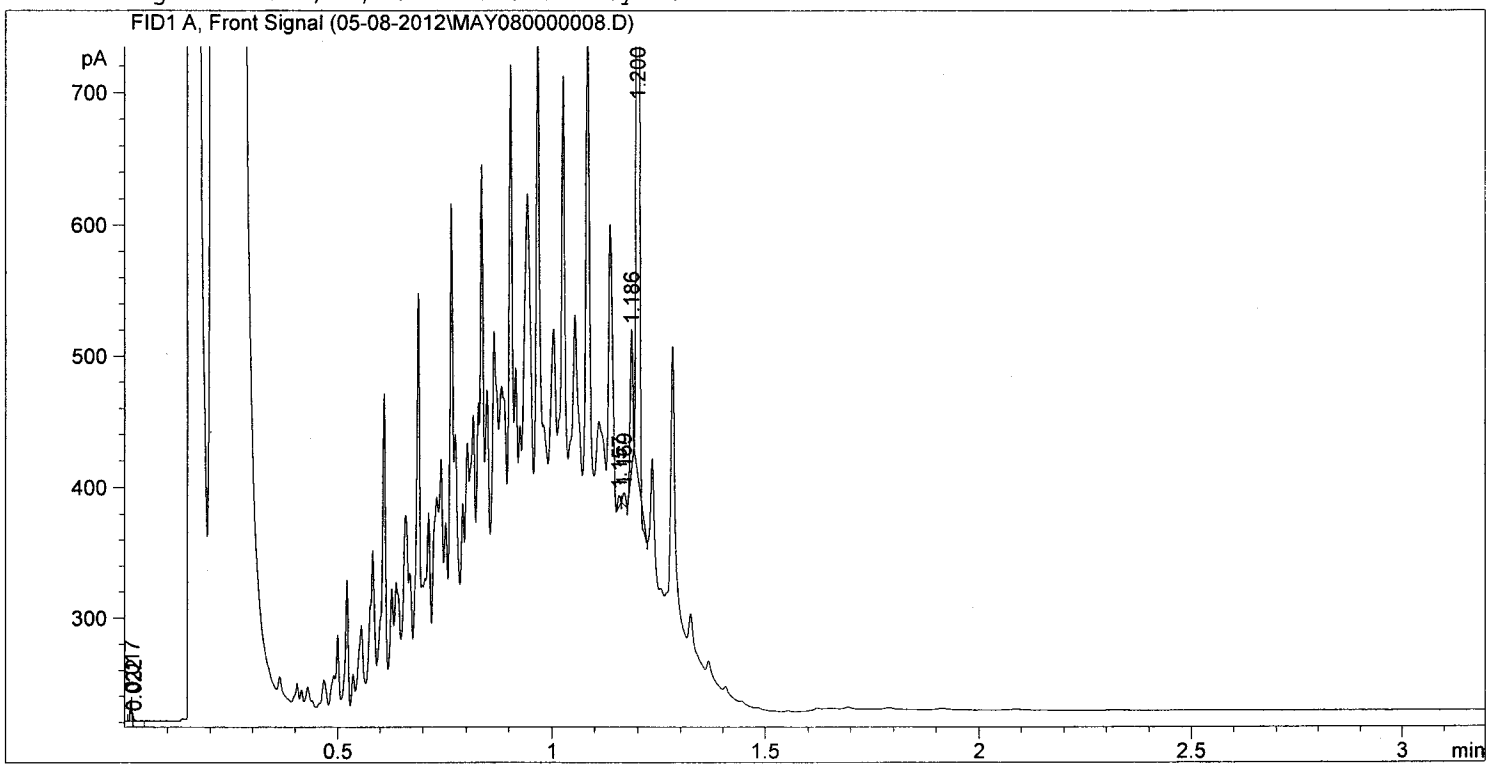
*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000008.D
Sample Name: CCV1

==========

Acq. Operator	: BJH	Seq. Line	: 4
Acq. Instrument	: 333	Location	: Vial 3
Injection Date	: 5/9/2012 13:35:37	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.200	1	BB S	487.71771	8.96452e-2	43.72156		OTP (Surrogate

Totals : 43.72156

==========

*** End of Report ***

CONTINUING CALIBRATION CHECK
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Lab Sample ID: 2E09056-CCV2
Lab File ID: MAY080000017.D
Injection Date: 05/09/12
Injection Time: 14:38
Calibration Date: 03/28/12 08:43
Calibration: 2D12010
Sequence: 2E09056
Instrument ID: 333

Analyte	Type	CONC. (ug/mL)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
DRO - 8015 (C10-C20)	L	1000	964	8.66025	9.095141		-3.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

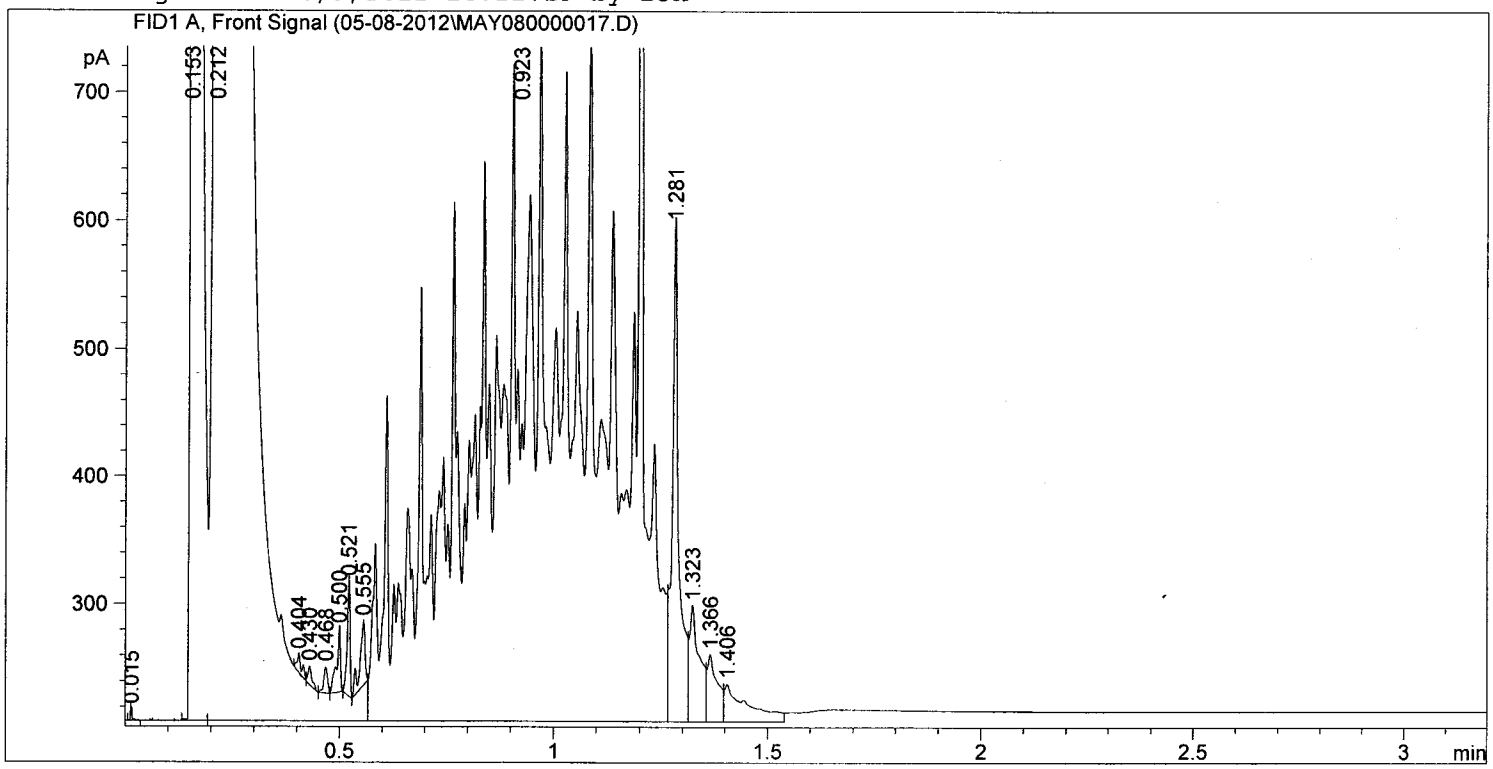
* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000017.D
Sample Name: CCV2

==========

Acq. Operator	: BJH	Seq. Line	: 13
Acq. Instrument	: 333	Location	: Vial 12
Injection Date	: 5/9/2012 14:38:09	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.1174	9095.14063	1.26954	EPA DRO (C10-C20)

Totals : 9095.14063 1.2695

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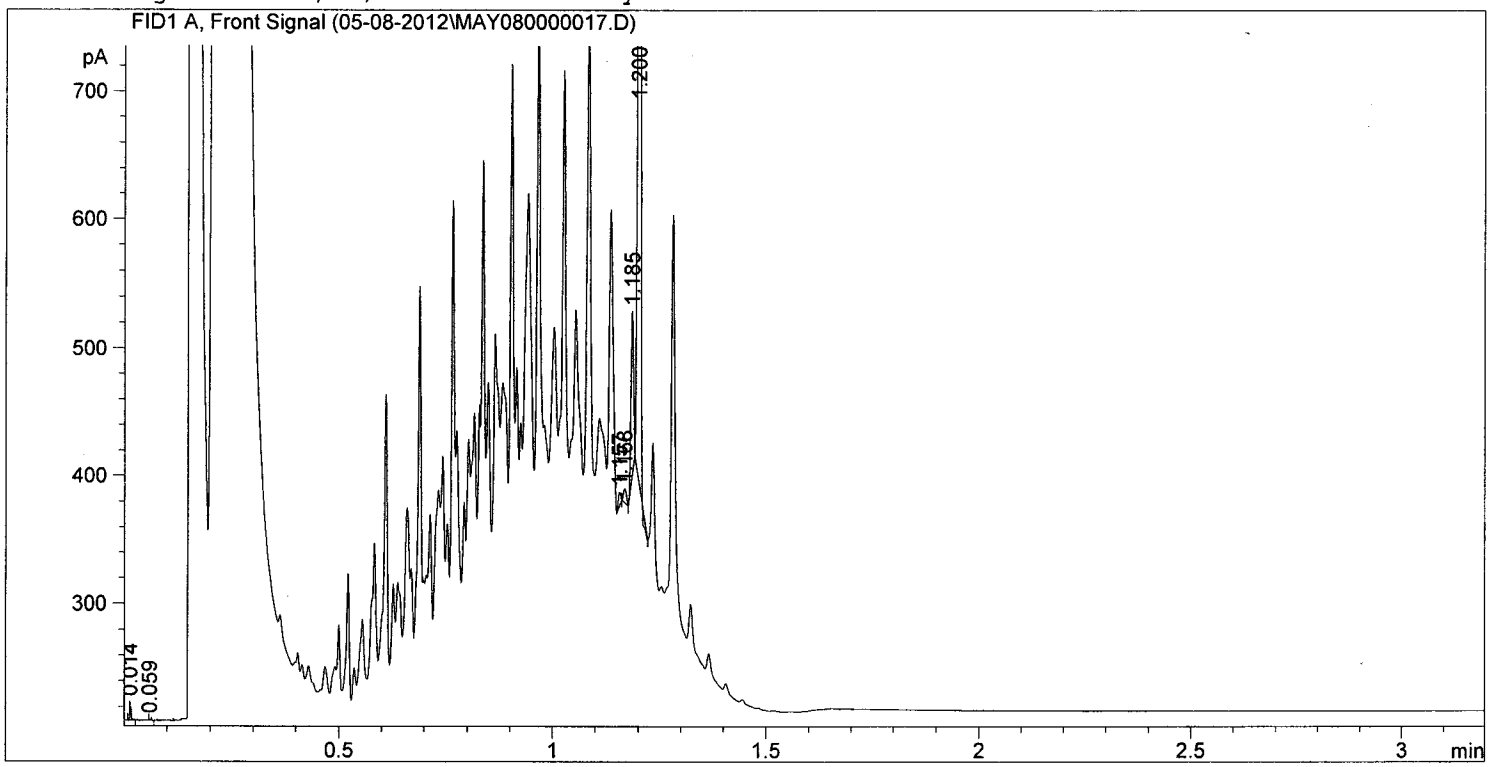
*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000017.D
Sample Name: CCV2

==========

Acq. Operator	: BJH	Seq. Line	: 13
Acq. Instrument	: 333	Location	: Vial 12
Injection Date	: 5/9/2012 14:38:09	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.200	1	BB S	512.78094	8.93872e-2	45.83605		OTP (Surrogate

Totals : 45.83605

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*** End of Report ***

METHOD BLANK DATA SHEET
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205752-BLK1
File ID: MAY080000009.D
Prepared: 05/08/12 08:08
Analyzed: 05/09/12 13:42
Preparation: 3510C Liquid-Liquid Ext
Initial/Final: 1000 mL / 1 mL
QC Batch: 1205752
Sequence: 2E09056
Calibration: 2D12010
Instrument: 333

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
DRO	DRO - 8015 (C10-C20)	200	ug/L	32	200	U

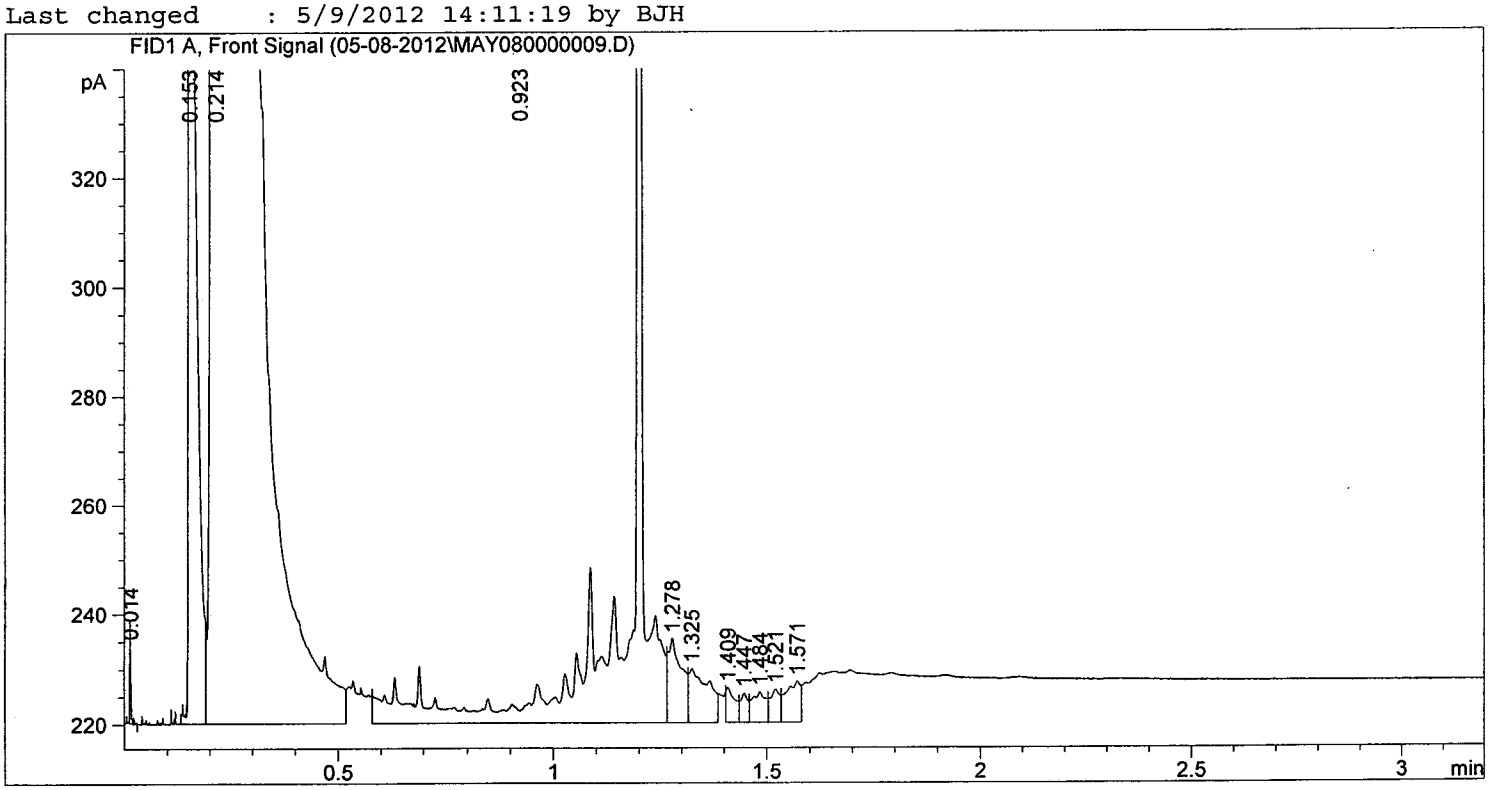
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
o-Terphenyl	40.0	34.7	87	45 - 136	

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000009.D
Sample Name: 1205752-BLK1

==========

Acq. Operator	: BJH	Seq. Line	: 5
Acq. Instrument	: 333	Location	: Vial 4
Injection Date	: 5/9/2012 13:42:33	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.0130	665.81067	0.09397	EPA DRO (C10-C20)

Totals : 665.81067 9.397e-2

1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (EPA DRO (C10-C20))

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000009.D
Sample Name: 1205752-BLK1

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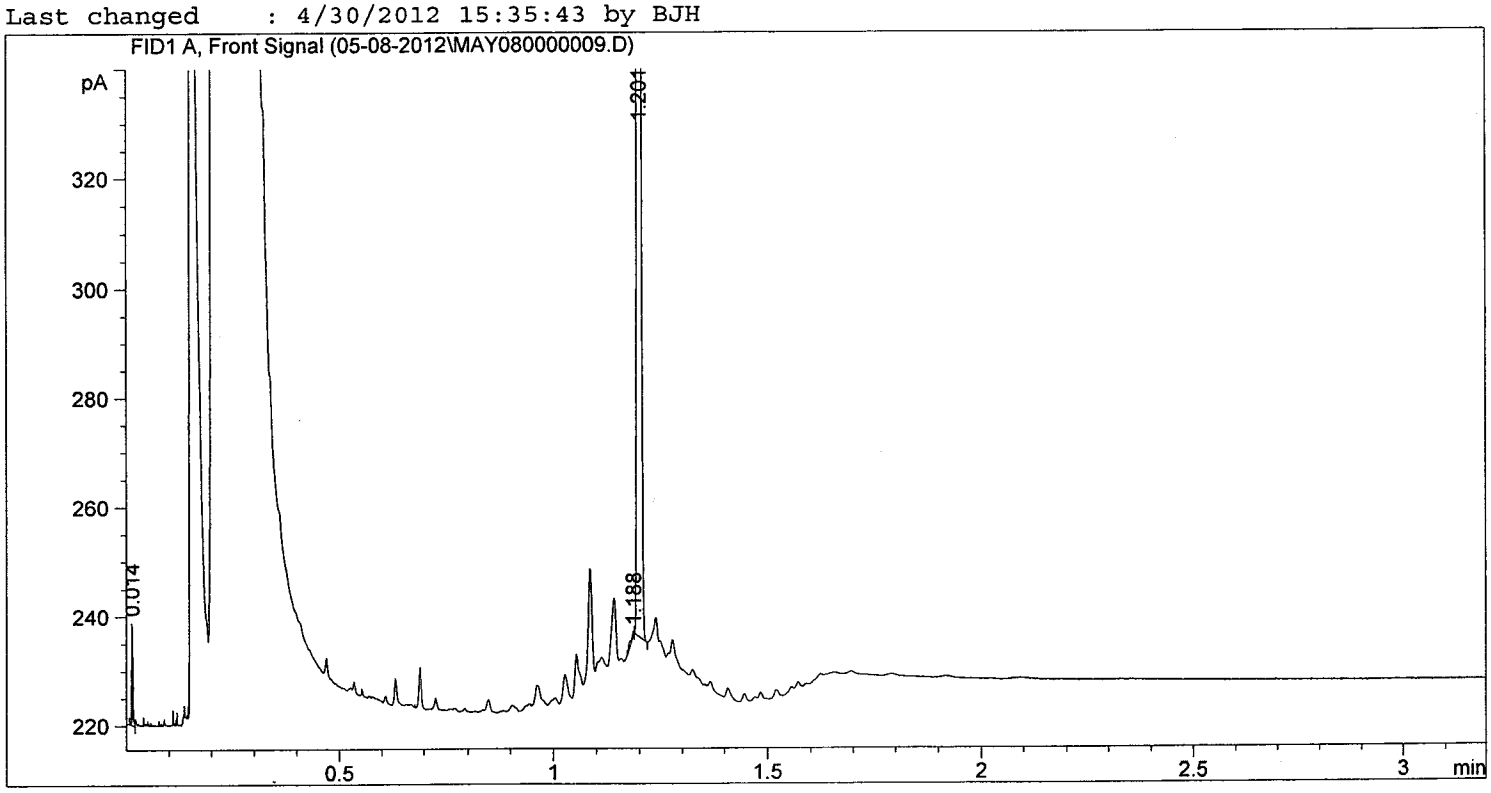
*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000009.D
Sample Name: 1205752-BLK1

==========

Acq. Operator	: BJH	Seq. Line	: 5
Acq. Instrument	: 333	Location	: Vial 4
Injection Date	: 5/9/2012 13:42:33	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.201	1	BB S	381.04984	9.11230e-2	34.72240		OTP (Surrogate
Totals :					34.72240		

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*** End of Report ***

LCS / LCS DUPLICATE RECOVERY
USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM050112
Project: KNM
Laboratory ID: 1205752-BS1
Preparation: 3510C Liquid-Liquid Extraction
Initial/Final: 1000 mL / 1 mL

QC Batch: 1205752
Sequence: 2E09056

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
DRO - 8015 (C10-C20)	1000	932	93	70 - 135	ug/L

Column to be used to flag recovery and RPD values with an asterisk

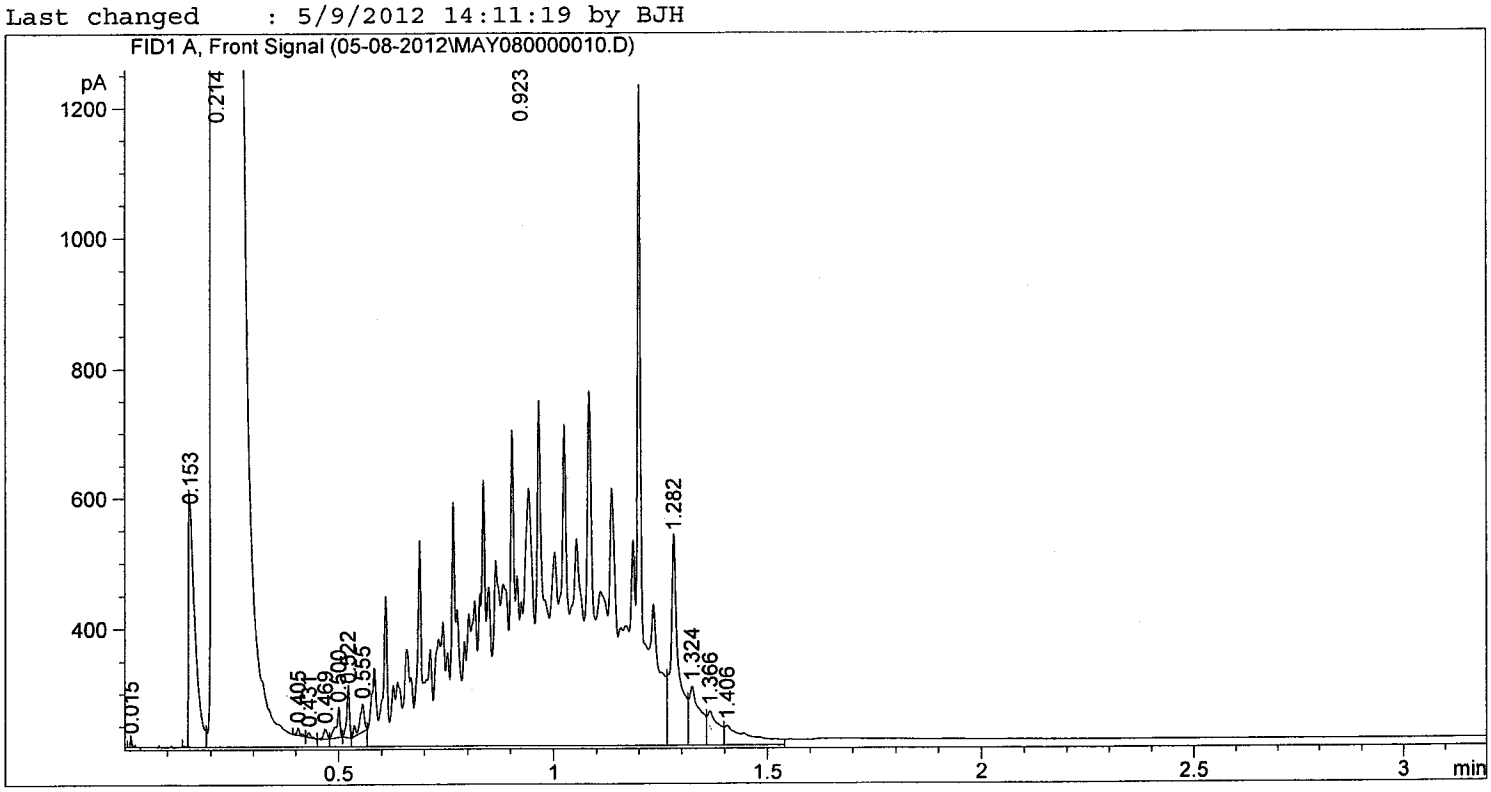
* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000010.D
Sample Name: 1205752-BS1

==========

Acq. Operator	: BJH	Seq. Line :	6
Acq. Instrument	: 333	Location :	Vial 5
Injection Date	: 5/9/2012 13:49:36	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.1494	8643.08105	1.21557	EPA DRO (C10-C20)

Totals : 8643.08105 1.2156

==========

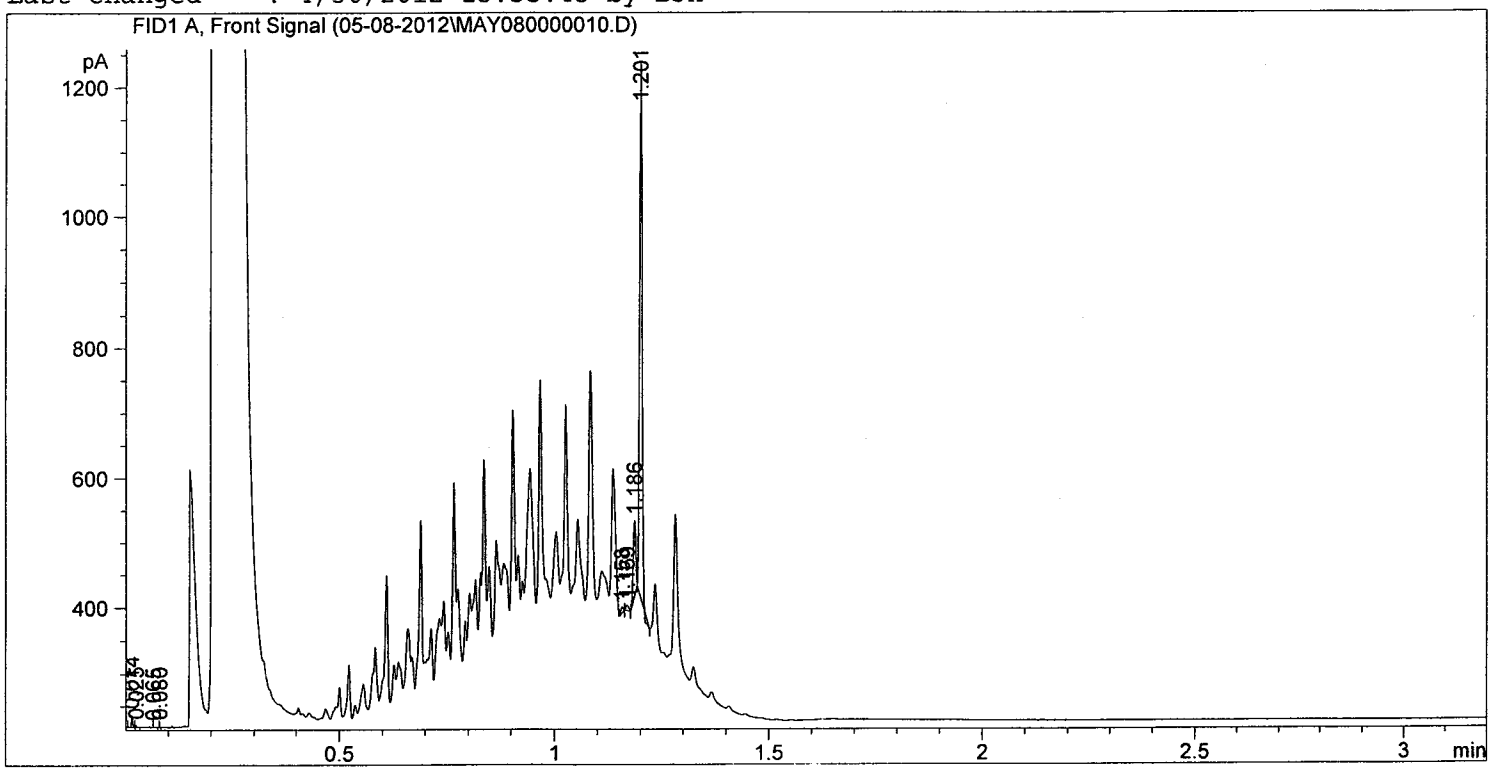
*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000010.D
Sample Name: 1205752-BS1

==========

Acq. Operator	: BJH	Seq. Line	: 6
Acq. Instrument	: 333	Location	: Vial 5
Injection Date	: 5/9/2012 13:49:36	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

==========

Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.201	1	BB S	341.52151	9.19051e-2	31.38755		OTP (Surrogate

Totals : 31.38755

==========

*** End of Report ***

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8015C

106037

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205752

SDG: KNM050112

Project: KNM

Laboratory ID: 1205752-MS1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 960 mL / 1 mL

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
DRO - 8015 (C10-C20)	1040	ND	964	92	65 - 135	ug/L

Column to be used to flag recovery and RPD values with an asterisk

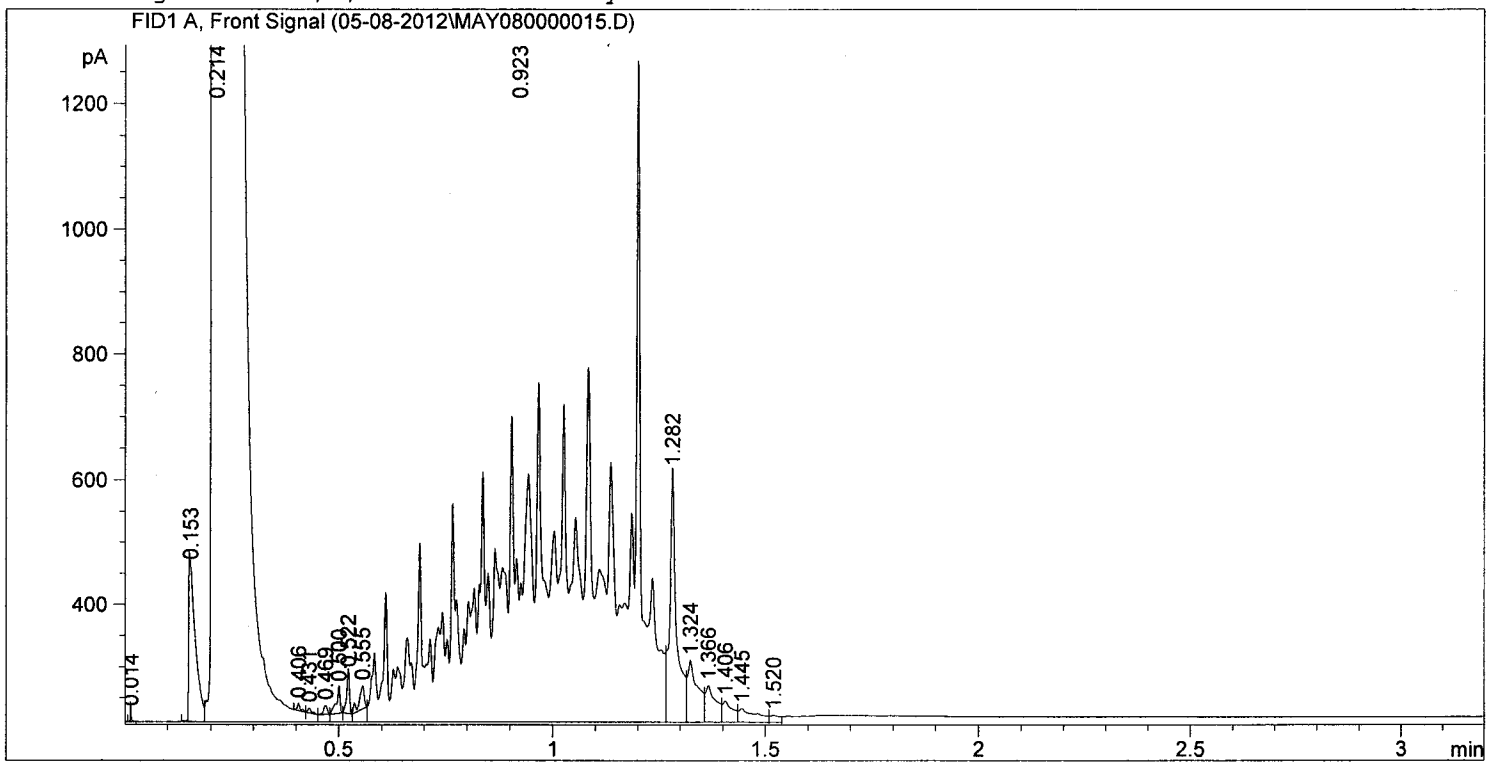
* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000015.D
Sample Name: 1205752-MS1

==========

Acq. Operator	: BJH	Seq. Line	: 11
Acq. Instrument	: 333	Location	: Vial 10
Injection Date	: 5/9/2012 14:24:15	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.1447	8596.55957	1.20039	EPA DRO (C10-C20)

Totals : 8596.55957 1.2004

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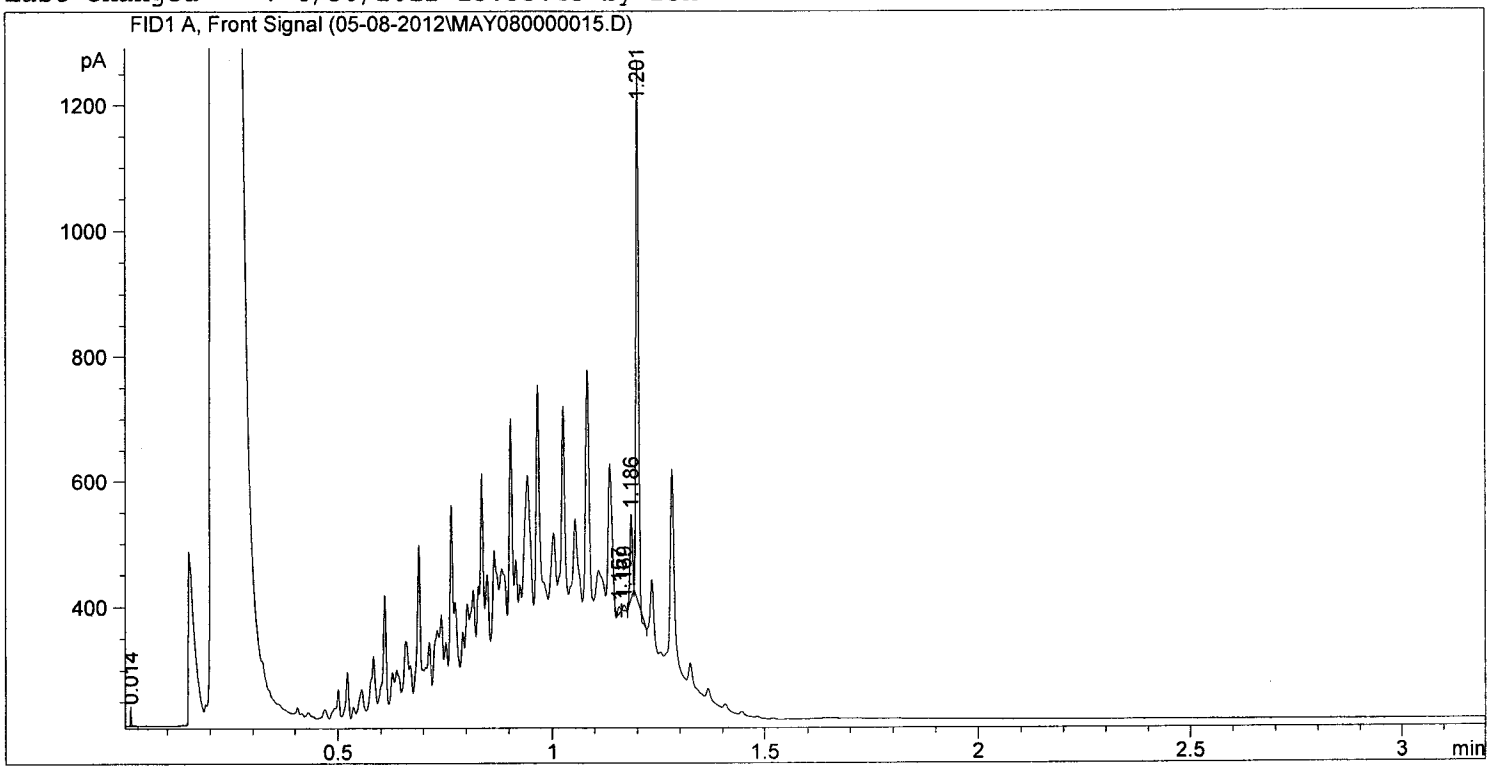
*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000015.D
Sample Name: 1205752-MS1

==========

Acq. Operator	: BJH	Seq. Line	: 11
Acq. Instrument	: 333	Location	: Vial 10
Injection Date	: 5/9/2012 14:24:15	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.201	1	BB S	358.94409	9.15391e-2	32.85743		OTP (Surrogate

Totals : 32.85743

==========

*** End of Report ***

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

106037

USEPA-8015C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205752

SDG: KNM050112

Project: KNM

Laboratory ID: 1205752-MSD1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 980 mL / 1 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
DRO - 8015 (C10-C20)	1020	908	89	6	20	65 - 135	ug/L

Column to be used to flag recovery and RPD values with an asterisk

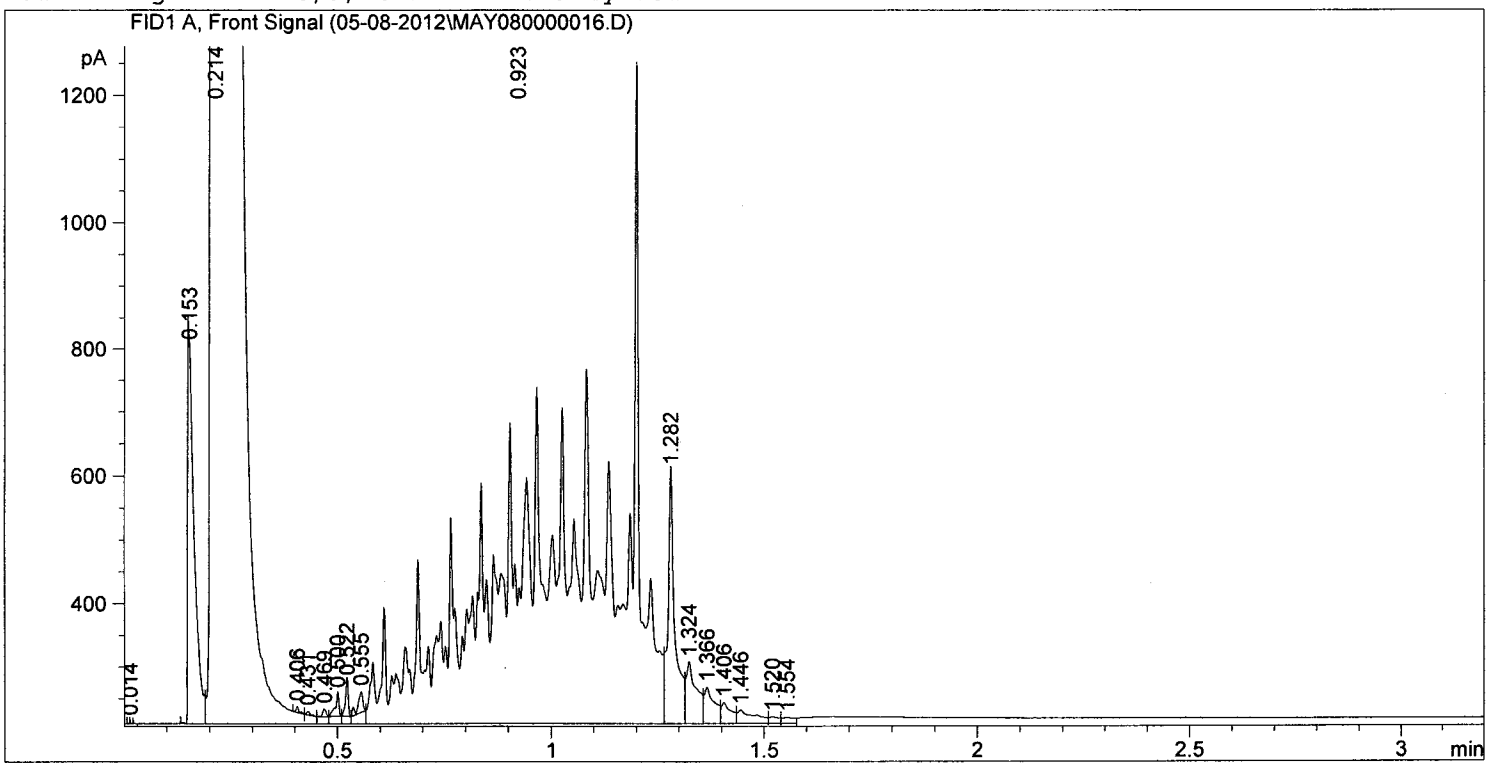
* Values outside of QC limits

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000016.D
Sample Name: 1205752-MSD1

==========

Acq. Operator	: BJH	Seq. Line	: 12
Acq. Instrument	: 333	Location	: Vial 11
Injection Date	: 5/9/2012 14:31:12	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.1416	8293.57520	1.15361	EPA DRO (C10-C20)

Totals : 8293.57520 1.1536

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*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000016.D
Sample Name: 1205752-MSD1

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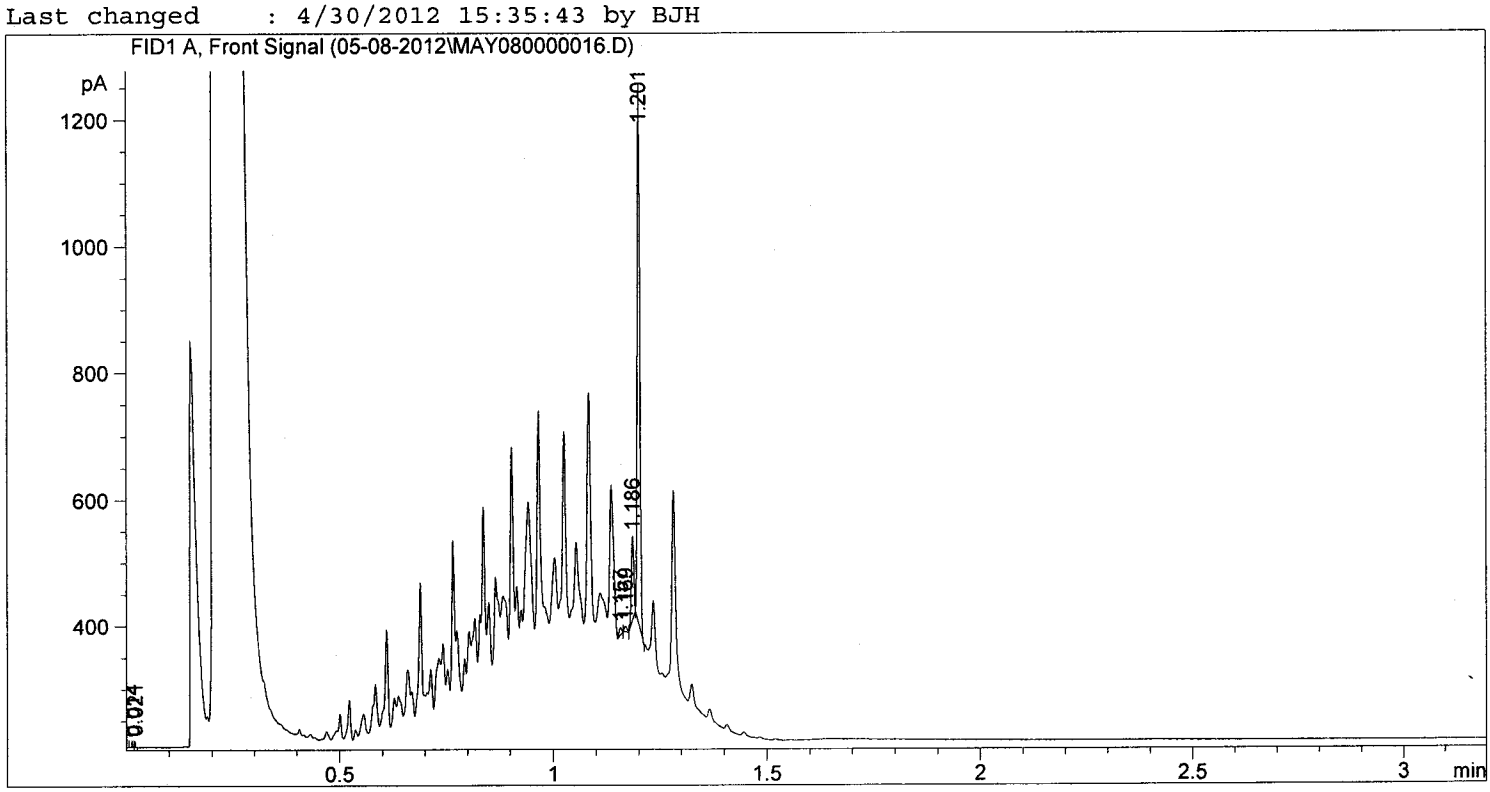
Acq. Operator	: BJH	Seq. Line	: 12
Acq. Instrument	: 333	Location	: Vial 11
Injection Date	: 5/9/2012 14:31:12	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\03282012 SURR+CAL.M
Last changed : 4/30/2012 15:35:43 by BJH



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 4/30/2012 15:35:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

RetTime [min]	Sig	Type	Area [pA*s]	Amt/Area	Amount [ng/ul]	Grp	Name
1.201	1	BB S	362.24734	9.14737e-2	33.13611		OTP (Surrogate

Totals : 33.13611

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*** End of Report ***

PREPARATION BATCH 1205752

Semivolatiles GC, Water, 3510C Liquid-Liquid Extraction

Surrogate #1 = 2031282 (Pre-Prep)

Batch Comments: (none)

00232

Standard	Description	Solvent	LotNum
2020310	MeCl2 - Lot K45S01	N/A	K45S01
2030436	#2 Diesel Fuel Spike	MeCl2/K26S01	na
2031096	Rinsed Sodium Sulfate	MeCl2/K45S01	K36612
2031282	DRO Surrogate	MeOH/113905	na

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1205072	DRO 8015B (master list)	1205073	DRO 8015B (master list)	1205085	DRO 8015B (master list)

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1205752-BLK1		May-08-12 08:08	ALK	1000	1	200				BLANK	
1205752-BS1		May-08-12 08:08	ALK	1000	1	200		2030436	500	LCS	
1205752-MS1		May-08-12 08:08	ALK	960	1	200	1205085-02	2030436	500	MATRIX SPIKE	
1205752-MSD1		May-08-12 08:08	ALK	980	1	200	1205085-02	2030436	500	MATRIX SPIKE DUP	
1205072-01	I	May-08-12 08:08	ALK	960	1	200				TechLaw	C10-20
1205073-01	I	May-08-12 08:08	ALK	970	1	200				TechLaw	C10-20
1205085-01	I	May-08-12 08:08	ALK	970	1	200				TechLaw	C10-20
1205085-02	Q	May-08-12 08:08	ALK	970	1	200				TechLaw	C10-20

Comments:	Analyst Initials:

TriMatrix Laboratories, Inc.

PREPARATION BATCH **1205752** Page 1 of 1

Printed: 5/8/2012 8:09:39AM

Semivolatiles GC, Water, 3510C Liquid-Liquid Extraction

Surrogate #1 = 2031282 (Pre-Prep)

Batch Comments: (none)

00233

Standard	Description	Solvent	LotNum
2020310	MeCl2 - Lot K45S01	N/A	K45S01
2031096	Rinsed Sodium Sulfate	MeCl2/K45S01	K36612
2031282	DRO Surrogate	MeOH/113905	na

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1205072	DRO 8015B (master list)	1205073	DRO 8015B (master list)	1205085	DRO 8015B (master list)

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1205752-BLK1		5/8/12	ALK	1000	1	200				BLANK	
1205752-BS1				1000				2030436	500	LCS	
1205752-MS1				960			1205085-02			MATRIX SPIKE	
1205752-MSD1				980			1205085-02			MATRIX SPIKE DUP	
1205072-01	I			960						TechLaw	C10-20
1205073-01	I			970						TechLaw	C10-20
1205085-01	I			970						TechLaw	C10-20
1205085-02	Q			970						TechLaw	C10-20

Bath 60°C

Comments:

Analyst Initials: MG

bch_TriMatrix_blank.rp

Semivolatiles GC, Water, May-09-12

Instrument = 333, Calibration = 2D12010

Sequence Analyses:
DRO 8015B (master list)

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2E09056-CCV1	QC		2031319		CALIBRATION CHECK	
1205752-BLK1	QC				BLANK	
1205752-BS1	QC				LCS	
1205072-01	DRO 8015B (master list)	I 01			TechLaw	C10-20
1205073-01	DRO 8015B (master list)	I 01			TechLaw	C10-20
1205085-01	DRO 8015B (master list)	I 01			TechLaw	C10-20
1205085-02	DRO 8015B (master list)	Q 01			TechLaw	C10-20
1205752-MS1	QC				MATRIX SPIKE	
1205752-MSD1	QC				MATRIX SPIKE DUP	
2E09056-CCV2	QC		2031319		CALIBRATION CHECK	

Comments:	Analyst Initials:

TRIMATRIX LABORATORIES

RETENTION TIME WINDOWS

Instrument Information		Column Temperature Program					
						Initial Temp:	40 C
Instrument Number:	333	Hold for:	0.1 min	Ramp to:	340 C	deg/min:	200
Detector:	FID	Hold for:	1.5 min	Ramp to:	-	deg/min:	-
		Hold for:	-	Ramp to:	-	deg/min:	-
Method/Column Reference:	8015_dro_DB5	Hold for:	-	Ramp to:	-	deg/min:	-
						Injection Port Temperature	270 C
Column 1 Element #:	1111073	Column 2 Element #:					

	Std 1 RT	Std 2 RT	Std 3 RT	Standard Deviation (min.)	RT Window Std. Dev. x 3 (min.)		Absolute Window (sec.)	Compound Name
Date of Injection	02/29/12	03/01/12	03/05/12					
Time of Injection	3:50 PM	3:41 PM	12:48 PM					
Compound / File Name	FEB29A0000013	SIG10000006	MAR05B000000					
FID Detector	-	-	-	-	-	-	-	FID Detector
C8	0.43	0.43	0.43	0.010	+/-	0.030	1.80	C8
C10	0.61	0.61	0.60	0.010	+/-	0.030	1.80	C10
C12	0.76	0.76	0.76	0.010	+/-	0.030	1.80	C12
C14	0.90	0.90	0.89	0.010	+/-	0.030	1.80	C14
C16	1.02	1.02	1.01	0.010	+/-	0.030	1.80	C16
C18	1.13	1.13	1.12	0.010	+/-	0.030	1.80	C18
C20	1.23	1.23	1.22	0.010	+/-	0.030	1.80	C20
C22	1.32	1.31	1.31	0.010	+/-	0.030	1.80	C22
C24	1.40	1.40	1.39	0.010	+/-	0.030	1.80	C24
C26	1.47	1.47	1.47	0.010	+/-	0.030	1.80	C26
C28	1.55	1.54	1.54	0.010	+/-	0.030	1.80	C28
C30	1.61	1.61	1.61	0.010	+/-	0.030	1.80	C30
C32	1.68	1.68	1.68	0.010	+/-	0.030	1.80	C32
C34	1.77	1.77	1.77	0.010	+/-	0.030	1.80	C34
C36	1.89	1.88	1.88	0.010	+/-	0.030	1.80	C36
C38	2.05	2.04	2.05	0.010	+/-	0.030	1.80	C38
C40	2.28	2.27	2.27	0.010	+/-	0.030	1.80	C40
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00235

TRIMATRIX LABORATORIES

DAILY RETENTION TIME WINDOWS

Instrument #:	333	**Date:**	3/28/12
Column 1 ID:	1111073	**File Name:**	MAR270000005
Column 2 ID:			

COMPOUND	RETENTION TIME	TODAY'S RETENTION TIME WINDOW		
FID Detector				
C8	0.424	0.394	to	0.454
C10	0.601	0.571	to	0.631
C12	0.758	0.728	to	0.788
C14	0.896	0.866	to	0.926
C16	1.019	0.989	to	1.049
C18	1.128	1.098	to	1.158
C20	1.226	1.196	to	1.256
C22	1.317	1.287	to	1.347
C24	1.400	1.370	to	1.430
C26	1.476	1.446	to	1.506
C28	1.548	1.518	to	1.578
C30	1.614	1.584	to	1.644
C32	1.686	1.656	to	1.716
C34	1.778	1.748	to	1.808
C36	1.900	1.870	to	1.930
C38	2.068	2.038	to	2.098
C40	2.300	2.270	to	2.330
-			to	
0.00			to	
0.00			to	
0.00			to	
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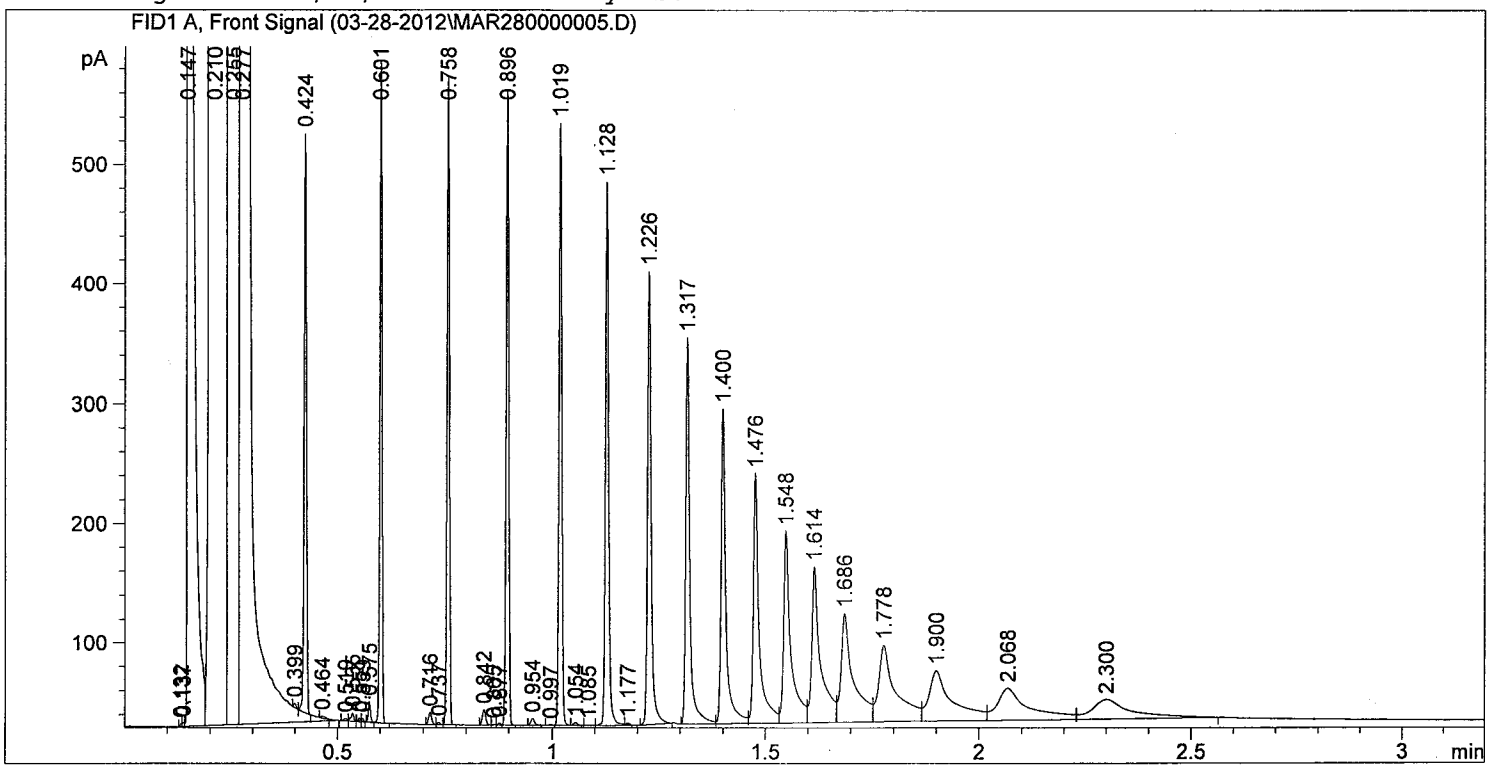
00236

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000005.D
Sample Name: FLA DRO

Acq. Operator	: BJH	Seq. Line	: 3
Acq. Instrument	: 333	Location	: Vial 2
Injection Date	: 3/28/2012 9:37:59	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\FL-DRO.M
Last changed : 7/27/2011 9:53:23 by ASC



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 7/27/2011 9:52:31
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.132	BV	3.79e-3	5.72842e-1	6.444e-5	?
2	0.137	VV	4.90e-3	1.14610	0.00013	?
3	0.147	VV S	0.0128	1124.92590	0.12654	?
4	0.210	VV S	0.0278	6.70892e5	75.46949	?
5	0.255	VV S	0.0120	1.74998e5	19.68569	?
6	0.277	VB S	8.67e-3	3.86290e4	4.34543	?
7	0.399	BV X	6.06e-3	1.33177	0.00015	?
8	0.424	VB X	6.16e-3	189.71251	0.02134	?
9	0.464	BB X	9.99e-3	1.24127	0.00014	C8

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000005.D
Sample Name: FLA DRO

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
10	0.519	BV	7.01e-3	9.73274e-1	0.00011	?
11	0.535	VV	6.74e-3	3.19177	0.00036	?
12	0.551	VV T	4.48e-3	6.31357e-1	7.102e-5	?
13	0.559	VV X	4.59e-3	6.57030e-1	7.391e-5	?
14	0.575	VV T	5.50e-3	5.86517	0.00066	?
15	0.601	VB R	5.75e-3	201.81258	0.02270	?
16	0.653		0.0000	0.00000	0.00000	C10
17	0.716	BV	8.08e-3	5.30769	0.00060	?
18	0.737	VV	6.09e-3	8.48215e-1	9.542e-5	?
19	0.758	VB	6.13e-3	210.29518	0.02366	?
20	0.817		0.0000	0.00000	0.00000	C12
21	0.842	BV	8.55e-3	6.97799	0.00078	?
22	0.865	VV X	5.53e-3	1.39859e-1	1.573e-5	?
23	0.877	VV X	6.13e-3	6.24888e-1	7.029e-5	?
24	0.896	VB R	6.59e-3	222.11383	0.02499	?
25	0.954	BB	9.20e-3	3.38056	0.00038	C14
26	0.997	BV T	7.12e-3	2.52319e-1	2.838e-5	?
27	1.019	VV R	7.12e-3	230.03445	0.02588	?
28	1.054	VB T	8.98e-3	1.31158	0.00015	?
29	1.085	BV	8.60e-3	2.84213e-1	3.197e-5	C16
30	1.128	VV R	7.82e-3	234.70560	0.02640	OTP
31	1.177	VB T	7.85e-3	5.86813e-1	6.601e-5	?
32	1.226	BB	8.91e-3	224.41093	0.02524	C18
33	1.317	BV	0.0100	219.04158	0.02464	C20
34	1.400	VV	0.0114	207.38954	0.02333	C22
35	1.476	VV	0.0136	200.65535	0.02257	C24
36	1.548	VV	0.0165	189.52600	0.02132	C26
37	1.614	VV	0.0194	186.46806	0.02098	?
38	1.686	VV	0.0270	181.39447	0.02041	C28
39	1.778	VV	0.0373	176.77724	0.01989	C30
40	1.900	VV	0.0522	160.81221	0.01809	C32
41	2.068	VV	0.0708	137.86366	0.01551	C34
42	2.300	VB	0.0882	106.06407	0.01193	C36
43	2.715		0.0000	0.00000	0.00000	C38
44	3.261		0.0000	0.00000	0.00000	C40

Totals : 8.88958e5

4 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Invalid calibration curve, (C30)
Warning : Invalid calibration curve, (C36)

==========

*** End of Report ***

TRIMATRIX LABORATORIES

RETENTION TIME WINDOWS

Instrument Information		Column Temperature Program					
						Initial Temp:	40 C
Instrument Number:	333	Hold for:	0.1 min	Ramp to:	340 C	deg/min:	200
Detector:	FID	Hold for:	1.5 min	Ramp to:	-	deg/min:	-
		Hold for:	-	Ramp to:	-	deg/min:	-
Method/Column Reference:	8015_dro_DB5	Hold for:	-	Ramp to:	-	deg/min:	-
					Injection Port Temperature		270 C
Column 1 Element #:	1111073	Column 2 Element #:					

	Std 1 RT	Std 2 RT	Std 3 RT	Standard Deviation (min.)	RT Window Std. Dev. x 3 (min.)		Absolute Window (sec.)	Compound Name
Date of Injection	02/29/12	03/01/12	03/05/12					
Time of Injection	3:50 PM	3:41 PM	12:48 PM					
Compound / File Name	FEB29A0000013	SIG10000006	MAR05B000000					
FID Detector	-	-	-	-	-	-	-	FID Detector
C8	0.43	0.43	0.43	0.010	+/-	0.030	1.80	C8
C10	0.61	0.61	0.60	0.010	+/-	0.030	1.80	C10
C12	0.76	0.76	0.76	0.010	+/-	0.030	1.80	C12
C14	0.90	0.90	0.89	0.010	+/-	0.030	1.80	C14
C16	1.02	1.02	1.01	0.010	+/-	0.030	1.80	C16
C18	1.13	1.13	1.12	0.010	+/-	0.030	1.80	C18
C20	1.23	1.23	1.22	0.010	+/-	0.030	1.80	C20
C22	1.32	1.31	1.31	0.010	+/-	0.030	1.80	C22
C24	1.40	1.40	1.39	0.010	+/-	0.030	1.80	C24
C26	1.47	1.47	1.47	0.010	+/-	0.030	1.80	C26
C28	1.55	1.54	1.54	0.010	+/-	0.030	1.80	C28
C30	1.61	1.61	1.61	0.010	+/-	0.030	1.80	C30
C32	1.68	1.68	1.68	0.010	+/-	0.030	1.80	C32
C34	1.77	1.77	1.77	0.010	+/-	0.030	1.80	C34
C36	1.89	1.88	1.88	0.010	+/-	0.030	1.80	C36
C38	2.05	2.04	2.05	0.010	+/-	0.030	1.80	C38
C40	2.28	2.27	2.27	0.010	+/-	0.030	1.80	C40
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00239

TRIMATRIX LABORATORIES

DAILY RETENTION TIME WINDOWS

Instrument #:	333	Date:	5/8/12
Column 1 ID:	1111073	File Name:	MAY080000007
Column 2 ID:			

COMPOUND	RETENTION TIME	TODAY'S RETENTION TIME WINDOW		
FID Detector				
C8	0.431	0.401	to	0.461
C10	0.608	0.578	to	0.638
C12	0.765	0.735	to	0.795
C14	0.904	0.874	to	0.934
C16	1.026	0.996	to	1.056
C18	1.136	1.106	to	1.166
C20	1.235	1.205	to	1.265
C22	1.325	1.295	to	1.355
C24	1.408	1.378	to	1.438
C26	1.485	1.455	to	1.515
C28	1.556	1.526	to	1.586
C30	1.622	1.592	to	1.652
C32	1.696	1.666	to	1.726
C34	1.791	1.761	to	1.821
C36	1.918	1.888	to	1.948
C38	NA	#VALUE!	to	#VALUE!
C40	NA	#VALUE!	to	#VALUE!
-			to	
0.00			to	
0.00			to	
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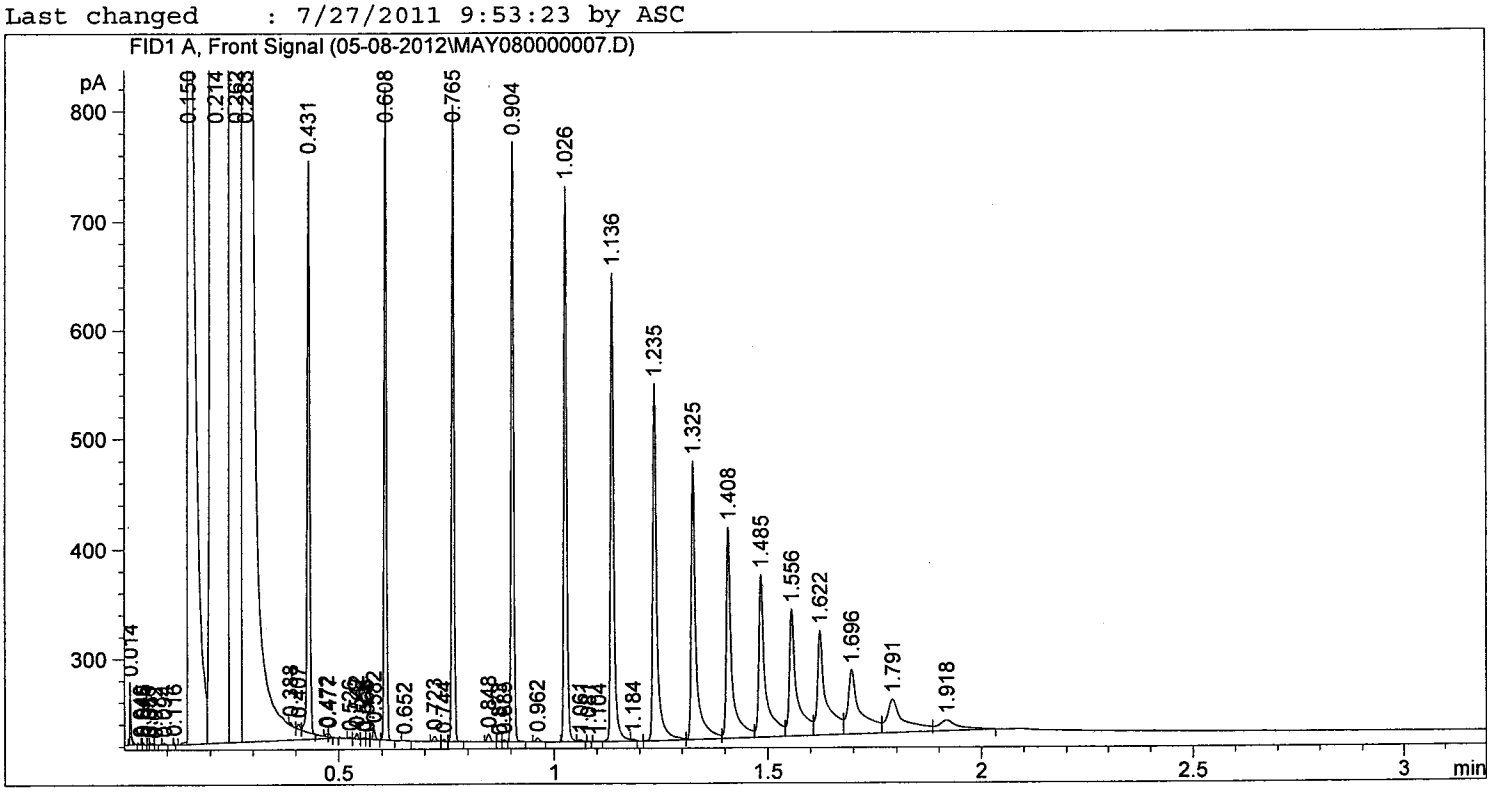
Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000007.D
Sample Name: FLA DRO

==========

Acq. Operator	: BJH	Seq. Line	: 3
Acq. Instrument	: 333	Location	: Vial 2
Injection Date	: 5/9/2012 13:28:42	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\FL-DRO.M
Last changed : 7/27/2011 9:53:23 by ASC



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 7/27/2011 9:52:31
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.014	BBA	2.65e-3	10.11868	0.00110	?
2	0.040	BV	1.55e-3	1.10828e-1	1.208e-5	?
3	0.045	VB	1.54e-3	2.19529e-1	2.392e-5	?
4	0.056	BV	1.53e-3	1.10348e-1	1.202e-5	?
5	0.061	VB	1.80e-3	2.39672e-1	2.612e-5	?
6	0.072	BB	2.08e-3	7.98374e-2	8.699e-6	?
7	0.094	VB	2.14e-3	2.18432e-1	2.380e-5	?
8	0.116	BV	1.17e-3	1.66563e-1	1.815e-5	?
9	0.150	BV S	0.0125	1102.25049	0.12010	?

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000007.D
Sample Name: FLA DRO

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
10	0.214	VV S	0.0256	6.86088e5	74.75763	?
11	0.262	VV S	0.0122	1.86144e5	20.28262	?
12	0.283	VB S	8.14e-3	4.17831e4	4.55278	?
13	0.388	BV X	5.76e-3	8.79967e-1	9.588e-5	?
14	0.407	VV X	6.57e-3	2.06265	0.00022	?
15	0.431	VB X	6.26e-3	209.13518	0.02279	?
16	0.472	BV X	5.62e-3	9.35165e-1	0.00010	C8
17	0.477	VB X	5.46e-3	8.36269e-1	9.112e-5	?
18	0.526	BV	5.30e-3	4.31591e-1	4.703e-5	?
19	0.542	VV	5.86e-3	1.96321	0.00021	?
20	0.558	VV	5.09e-3	5.05001e-1	5.503e-5	?
21	0.566	VV	4.81e-3	3.24477e-1	3.536e-5	?
22	0.582	VB	5.84e-3	3.75909	0.00041	?
23	0.608	BB	5.59e-3	214.27837	0.02335	?
24	0.652	BB	7.30e-3	2.26055e-1	2.463e-5	C10
25	0.723	BV	8.01e-3	2.51859	0.00027	?
26	0.744	VV	6.07e-3	8.86196e-1	9.656e-5	?
27	0.765	VB	6.04e-3	221.97862	0.02419	?
28	0.817		0.0000	0.00000	0.00000	C12
29	0.848	BB	8.24e-3	3.64997	0.00040	?
30	0.873	BV T	5.22e-3	1.51130e-1	1.647e-5	?
31	0.885	VV X	6.02e-3	6.37452e-1	6.946e-5	?
32	0.904	VB R	6.59e-3	230.22394	0.02509	?
33	0.962	BB	8.78e-3	2.03394	0.00022	C14
34	1.026	BV R	7.18e-3	234.83076	0.02559	?
35	1.061	VV T	8.75e-3	7.60692e-1	8.289e-5	?
36	1.081	VV T	3.84e-3	8.46170e-2	9.220e-6	C16
37	1.104	VV T	9.47e-3	2.02784e-1	2.210e-5	?
38	1.136	VV R	8.16e-3	234.28375	0.02553	OTP
39	1.184	VV T	7.97e-3	4.20277e-1	4.579e-5	C18
40	1.235	VV	9.80e-3	218.40286	0.02380	?
41	1.325	VV	0.0110	195.51468	0.02130	C20
42	1.408	VV	0.0126	172.88925	0.01884	C22
43	1.485	VV	0.0146	156.21283	0.01702	C24
44	1.556	VV	0.0168	141.39748	0.01541	C26
45	1.622	VV	0.0192	135.70348	0.01479	?
46	1.696	VV	0.0264	116.18782	0.01266	C28
47	1.791	VV	0.0370	84.06001	0.00916	C30
48	1.918	VB	0.0414	33.15516	0.00361	C32
49	2.077		0.0000	0.00000	0.00000	C34
50	2.336		0.0000	0.00000	0.00000	C36
51	2.715		0.0000	0.00000	0.00000	C38
52	3.261		0.0000	0.00000	0.00000	C40

Totals : 9.17750e5

3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Invalid calibration curve, (C30)

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*** End of Report ***

5/9/12

TRIMATRIX LABORATORIES

Instrument 333 HP7890	Date: 5/8/12	Sequence#: 05-08-2012	Date Archived:	Analyst: BJA

Instrument Settings / Injection Volume	GC Program				CCV Standards		Routine Maintenance Items
Column Type: HP-5	Initial:						Column Clipped: Yes / No
Column Element #: 1111073	Hold:						New Injection Port Liner: Yes / No
Injection Volume: 1 uL	Rate:						New Septa: Yes / No
Injector / Detector: 270°C / 300°C	Final:						New Syringe: Yes / No
Default Temperature Program: Yes / No	Hold:						

Run ID	File ID	Analysis Method	Dilution	ICV/CCV Check (Pass or High/Low)	Sample Notes, Calibration Standards, Analytical Batch Information, etc.
MeCl2	MA108000001	DRO(C10-C28)05-08-2012			
	02				
	03				
	04				
	05				
INST BLK	06				
FLA DRO	07				
CCV1	08			Pass	
1205752-BLK1	09				
1205752-BS1	10				
1205072-01	11				
1205072-01	12				
1205085-01	13				
1205085-02	14				
1205752-MS1	15				
1205752-MSD1	16				

01256

TRIMATRIX LABORATORIES

Run ID	File ID	Analysis Method	Dilution	ICV/CCV Check (Pass or High/Low)	Sample Notes, Calibration Standards, PEM Injection Times, Analytical Batch Information, etc.
CCV2	MAY08000001-7	DRO(C10-C28)05-08-2012		Pass	
					BOA 5/9/12

112209

TRIMATRIX LABORATORIES

Sample type	Known QC Concentration (ug/L or mg/kg)	DRO area	o-terphenyl Area	Methylene Chloride Blank Area	Adjusted Area	DRO mg/L	Extracted volume (L) or mass (g)	Final Extract Volume (mL)	Final Extract Dilution (uL/uL)	Fractional Solids (%/100)	Instrument y-intercept	Instrument slope	DRO result to report	units (ug/L or mg/kg)	QC % recovery	Sample in calibration range?
CCV1	1000.000	8827	488	53	8286	936	1	1	1	1	2	9	936.177		94	YES
1205752-BLK1		666	381	53	231	26	1	1	1	1	2	9	25.960			YES
1205752-BS1		8643	342	53	8248	932	1	1	1	1	2	9	931.907			YES
1205072-01		24768	365	53	24349	2751	1	1	1	1	2	9	2751.431			YES
1205073-01		593	349	53	190	21	1	1	1	1	2	9	21.326			YES
1205085-01		579	355	53	170	19	1	1	1	1	2	9	19.075			YES
1205085-02		584	365	53	166	19	1	1	1	1	2	9	18.6			YES
1205752-MS1		8597	359	53	8184	925	1	1	1	1	2	9	924.7			YES
1205752-MSD1		8294	362	53	7878	890	1	1	1	1	2	9	890.1			YES
CCV2	1000.000	9095	513	53	8529	964	1	1	1	1	2	9	963.6		96	YES
							1	1	1	1						
							1	1	1	1						
							1	1	1	1						
							1	1	1	1						
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							1	1	1	1						
							1	1	1	1						
							1	1	1	1						
SCV1	1000	9292	503	93	8696	983	1	1	1	1	2	9	982.5	mg/L	-	-
L1	125	1100	61	93	946	107	1	1	1	1	2	9	106.7	mg/L	-	-
L2	250	2384	137	93	2154	243	1	1	1	1	2	9	243.2	mg/L	-	-
L3	500	4824	280	93	4450	503	1	1	1	1	2	9	502.7	mg/L	-	-
L4	1000	9586	541	93	8952	1011	1	1	1	1	2	9	1011.4	mg/L	-	-
L5	2000	19115	1090	93	17932	2026	1	1	1	1	2	9	2026.3	mg/L	-	-
L6	4000	37729	2374	93	35262	3985	1	1	1	1	2	9	3984.7	mg/L	-	-
													r^2= 0.99987			

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000004.D
Sample Name: INST BLK

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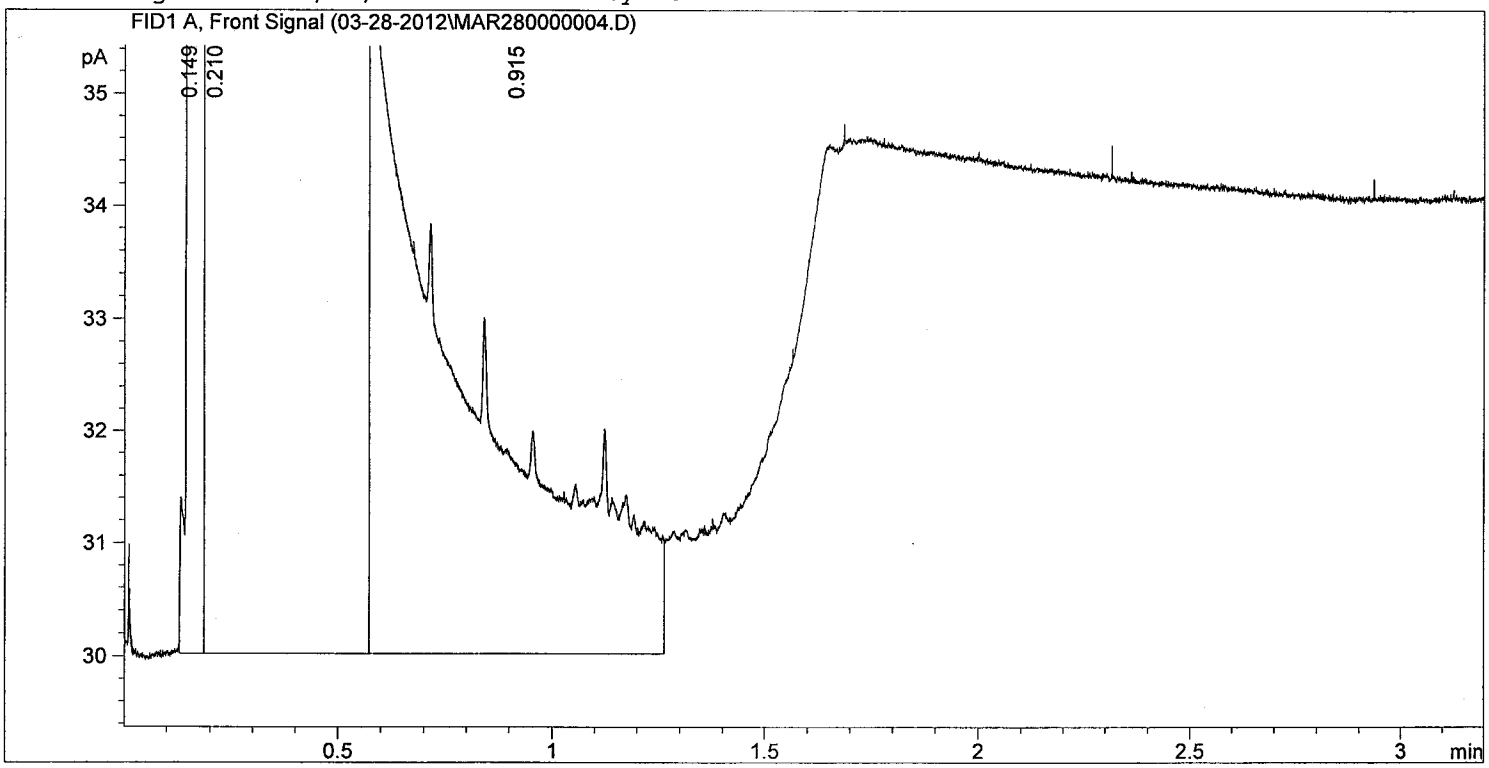
Acq. Operator	: BJH	Seq. Line :	2
Acq. Instrument	: 333	Location :	Vial 1
Injection Date	: 3/28/2012 9:31:07	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_03-28-2012+CAL.M
Last changed : 4/12/2012 13:46:31 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.915	HHA+	0.2412	92.81039	0.01339	EPA DRO (C10-C20)

Totals : 92.81039 1.339e-2

1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (EPA DRO (C10-C20))

Data File C:\CHEM32\1\DATA\03-28-2012\MAR280000004.D
Sample Name: INST BLK

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*** End of Report ***

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000006.D
Sample Name: INST BLK

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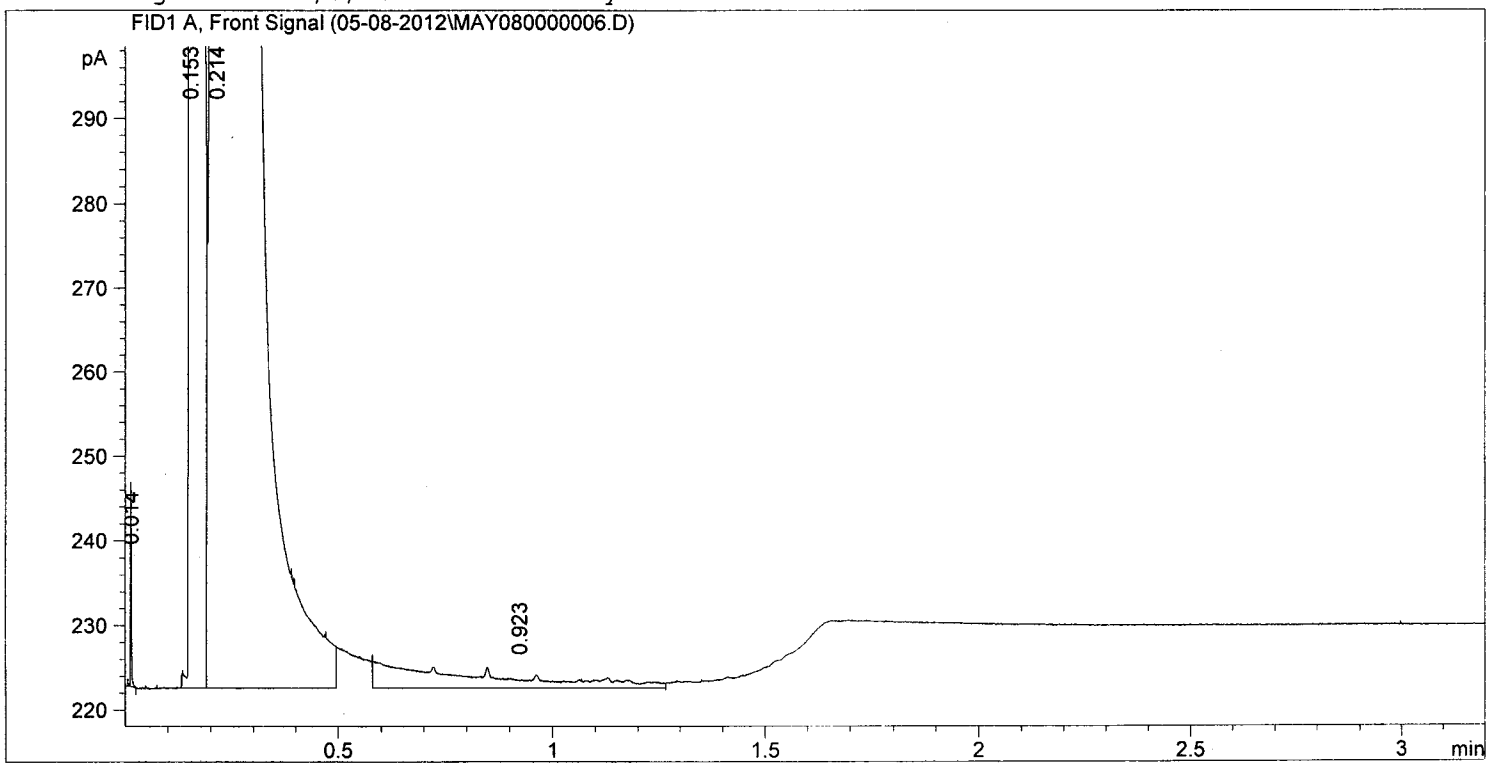
Acq. Operator	: BJH	Seq. Line :	2
Acq. Instrument	: 333	Location :	Vial 1
Injection Date	: 5/9/2012 13:21:43	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\METHODS\DRO_BF.M
Last changed : 3/31/2011 14:59:06 by ASC
Analysis Method : C:\CHEM32\1\METHODS\DRO(C10-C20)_05-08-2012.M
Last changed : 5/9/2012 14:11:19 by BJH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 3/27/2012 8:52:39
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.923	HHA+	0.2783	53.37452	0.00759	EPA DRO (C10-C20)

Totals : 53.37452 7.590e-3

1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (EPA DRO (C10-C20))

Data File C:\CHEM32\1\DATA\05-08-2012\MAY080000006.D
Sample Name: INST BLK

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*** End of Report ***