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Apex Laboratories
Philip Nerenberg
12232 S.W. Garden Place
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RE: A6C1134
Lab ID: 1604079

April 27, 2016

Attention Philip Nerenberg:

Fremont Analytical, Inc. received 2 sample(s) on 4/9/2016 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
President

DoD/ELAP Certification #L2371, ISO/ICC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 04/27/2016

CLIENT: Apex Laboratories
Project: A6C1134
Lab Order: 1604079

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1604079-001	5237-160330-DC-EMB050G	03/30/2016 3:30 PM	04/09/2016 12:34 PM
1604079-002	5237-160330-DC-EMB050	03/30/2016 3:30 PM	04/09/2016 12:34 PM

CLIENT: Apex Laboratories

Project: A6C1134

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

WO#: 1604079
Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/30/2016 3:30:00 PM

Project: A6C1134

Lab ID: 1604079-001

Matrix: Soil

Client Sample ID: 5237-160330-DC-EMB050G

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 13429

Analyst: BC

Aliphatic Hydrocarbon (C5-C6)	ND	1.74	Q	mg/Kg	1	4/12/2016 7:42:25 PM
Aliphatic Hydrocarbon (C6-C8)	ND	1.74		mg/Kg	1	4/12/2016 7:42:25 PM
Aliphatic Hydrocarbon (C8-C10)	ND	1.74		mg/Kg	1	4/12/2016 7:42:25 PM
Aliphatic Hydrocarbon (C10-C12)	ND	1.74		mg/Kg	1	4/12/2016 7:42:25 PM
Aromatic Hydrocarbon (C8-C10)	ND	1.74		mg/Kg	1	4/12/2016 7:42:25 PM
Aromatic Hydrocarbon (C10-C12)	ND	1.74		mg/Kg	1	4/12/2016 7:42:25 PM
Aromatic Hydrocarbon (C12-C13)	ND	1.74		mg/Kg	1	4/12/2016 7:42:25 PM
Surr: 1,4-Difluorobenzene	103	65-140		%Rec	1	4/12/2016 7:42:25 PM
Surr: Bromofluorobenzene	82.1	65-140		%Rec	1	4/12/2016 7:42:25 PM

NOTES:

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

WO#: 1604079
Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/30/2016 3:30:00 PM

Project: A6C1134

Lab ID: 1604079-002

Matrix: Soil

Client Sample ID: 5237-160330-DC-EMB050

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 13403

Analyst: CM

Aliphatic Hydrocarbon (C8-C10)	ND	6.89		mg/Kg-dry	1	4/22/2016 11:22:00 PM
Aliphatic Hydrocarbon (C10-C12)	ND	6.89		mg/Kg-dry	1	4/22/2016 11:22:00 PM
Aliphatic Hydrocarbon (C12-C16)	ND	6.89		mg/Kg-dry	1	4/22/2016 11:22:00 PM
Aliphatic Hydrocarbon (C16-C21)	ND	6.89		mg/Kg-dry	1	4/22/2016 11:22:00 PM
Aliphatic Hydrocarbon (C21-C34)	ND	6.89		mg/Kg-dry	1	4/22/2016 11:22:00 PM
Aromatic Hydrocarbon (C8-C10)	ND	6.89		mg/Kg-dry	1	4/23/2016 11:22:00 AM
Aromatic Hydrocarbon (C10-C12)	ND	6.89		mg/Kg-dry	1	4/23/2016 11:22:00 AM
Aromatic Hydrocarbon (C12-C16)	ND	6.89		mg/Kg-dry	1	4/23/2016 11:22:00 AM
Aromatic Hydrocarbon (C16-C21)	ND	6.89		mg/Kg-dry	1	4/23/2016 11:22:00 AM
Aromatic Hydrocarbon (C21-C34)	ND	6.89		mg/Kg-dry	1	4/23/2016 11:22:00 AM
Surr: 1-Chlorooctadecane	36.7	60-140	S	%Rec	1	4/22/2016 11:22:00 PM
Surr: o-Terphenyl	62.8	60-140		%Rec	1	4/23/2016 11:22:00 AM

NOTES:

S - Outlying QC recoveries were associated with this sample. The method is in control as indicated by the LCS.

Sample Moisture (Percent Moisture)

Batch ID: R28687

Analyst: SB

Percent Moisture	29.5	0.500		wt%	1	4/11/2016 10:17:14 AM
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Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID ALI ICB	SampType: ICB	Units: mg/Kg	Prep Date: 4/21/2016	RunNo: 28953							
Client ID: ICB	Batch ID: R28953		Analysis Date: 4/21/2016	SeqNo: 544719							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	27.1	5.00									
Aliphatic Hydrocarbon (C10-C12)	14.1	5.00									
Aliphatic Hydrocarbon (C12-C16)	16.1	5.00									
Aliphatic Hydrocarbon (C16-C21)	96.9	5.00									
Aliphatic Hydrocarbon (C21-C34)	25.0	5.00									
Surr: 1-Chlorooctadecane	31.2		40.00		78.1	60	140				

Sample ID ALI ICV	SampType: ICV	Units: mg/Kg	Prep Date: 4/22/2016	RunNo: 28953							
Client ID: ICV	Batch ID: R28953		Analysis Date: 4/22/2016	SeqNo: 544720							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	186	5.00	200.0	0	92.8	80	120				
Aliphatic Hydrocarbon (C10-C12)	93.7	5.00	100.0	0	93.7	80	120				
Aliphatic Hydrocarbon (C12-C16)	91.1	5.00	100.0	0	91.1	80	120				
Aliphatic Hydrocarbon (C16-C21)	115	5.00	100.0	0	115	80	120				
Aliphatic Hydrocarbon (C21-C34)	85.5	5.00	100.0	0	85.5	80	120				
Surr: 1-Chlorooctadecane	37.9		40.00		94.8	60	140				

Sample ID ARO ICB	SampType: ICB	Units: mg/Kg	Prep Date: 4/22/2016	RunNo: 28953							
Client ID: ICB	Batch ID: R28953		Analysis Date: 4/22/2016	SeqNo: 544721							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	5.00									
Aromatic Hydrocarbon (C10-C12)	ND	5.00									
Aromatic Hydrocarbon (C12-C16)	ND	5.00									
Aromatic Hydrocarbon (C16-C21)	21.4	5.00									
Aromatic Hydrocarbon (C21-C34)	41.1	5.00									
Surr: o-Terphenyl	30.6		40.00		76.6	60	140				

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QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID ARO ICV	SampType: ICV	Units: mg/Kg				Prep Date: 4/22/2016	RunNo: 28953				
Client ID: ICV	Batch ID: R28953					Analysis Date: 4/22/2016	SeqNo: 544722				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	94.4	5.00	100.0	0	94.4	80	120				
Aromatic Hydrocarbon (C10-C12)	92.1	5.00	100.0	0	92.1	80	120				
Aromatic Hydrocarbon (C12-C16)	97.5	5.00	100.0	0	97.5	80	120				
Aromatic Hydrocarbon (C16-C21)	111	5.00	100.0	0	111	80	120				
Aromatic Hydrocarbon (C21-C34)	82.7	5.00	100.0	0	82.7	80	120				
Surr: o-Terphenyl	34.7		40.00		86.7	60	140				

Sample ID ALI CCVA	SampType: CCV	Units: mg/Kg				Prep Date: 4/22/2016	RunNo: 28989				
Client ID: CCV	Batch ID: 13403					Analysis Date: 4/22/2016	SeqNo: 545602				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	202	5.00	200.0	0	101	80	120				
Aliphatic Hydrocarbon (C10-C12)	101	5.00	100.0	0	101	80	120				
Aliphatic Hydrocarbon (C12-C16)	100	5.00	100.0	0	100	80	120				
Aliphatic Hydrocarbon (C16-C21)	107	5.00	100.0	0	107	80	120				
Aliphatic Hydrocarbon (C21-C34)	96.0	5.00	100.0	0	96.0	80	120				
Surr: 1-Chlorooctadecane	36.6		40.00		91.5	60	140				

Sample ID ARO CCVA	SampType: CCV	Units: mg/Kg				Prep Date: 4/22/2016	RunNo: 28989				
Client ID: CCV	Batch ID: 13403					Analysis Date: 4/22/2016	SeqNo: 545638				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	104	5.00	100.0	0	104	80	120				
Aromatic Hydrocarbon (C10-C12)	100	5.00	100.0	0	100	80	120				
Aromatic Hydrocarbon (C12-C16)	105	5.00	100.0	0	105	80	120				
Aromatic Hydrocarbon (C16-C21)	97.9	5.00	100.0	0	97.9	80	120				
Aromatic Hydrocarbon (C21-C34)	82.1	5.00	100.0	0	82.1	80	120				
Surr: o-Terphenyl	34.7		40.00		86.7	60	140				

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QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID	LCS-13403	SampType:	LCS	Units:	mg/Kg	Prep Date:	4/6/2016	RunNo:	28989		
Client ID:	LCSS	Batch ID:	13403			Analysis Date:	4/22/2016	SeqNo:	545604		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	77.9	5.00	100.0	0	77.9	70	130				
Aliphatic Hydrocarbon (C10-C12)	46.5	5.00	50.00	0	93.0	70	130				
Aliphatic Hydrocarbon (C12-C16)	43.5	5.00	50.00	0	86.9	70	130				
Aliphatic Hydrocarbon (C16-C21)	44.7	5.00	50.00	0	89.5	70	130				
Aliphatic Hydrocarbon (C21-C34)	43.2	5.00	50.00	0	86.4	70	130				
Surr: 1-Chlorooctadecane	16.5		20.00		82.3	60	140				

Sample ID	MB-13403	SampType:	MBLK	Units:	mg/Kg	Prep Date:	4/6/2016	RunNo:	28989		
Client ID:	MBLKS	Batch ID:	13403			Analysis Date:	4/22/2016	SeqNo:	545603		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	5.00									
Aliphatic Hydrocarbon (C10-C12)	ND	5.00									
Aliphatic Hydrocarbon (C12-C16)	ND	5.00									
Aliphatic Hydrocarbon (C16-C21)	ND	5.00									
Aliphatic Hydrocarbon (C21-C34)	ND	5.00									
Surr: 1-Chlorooctadecane	12.2		20.00		61.2	60	140				

Sample ID	1604081-004ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	4/6/2016	RunNo:	28989		
Client ID:	BATCH	Batch ID:	13403			Analysis Date:	4/23/2016	SeqNo:	545612		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	6.35						0		30	
Aliphatic Hydrocarbon (C10-C12)	ND	6.35						0		30	
Aliphatic Hydrocarbon (C12-C16)	ND	6.35						0		30	
Aliphatic Hydrocarbon (C16-C21)	22.2	6.35						13.69	47.4	30	R
Aliphatic Hydrocarbon (C21-C34)	ND	6.35						0		30	
Surr: 1-Chlorooctadecane	13.6		25.41		53.6	60	140		0		S

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

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QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID	ALI CCVB	SampType:	CCV	Units:	mg/Kg	Prep Date:	4/23/2016	RunNo:	28989		
Client ID:	CCV	Batch ID:	13403	Analysis Date:	4/23/2016	SeqNo:	545613				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	210	5.00	200.0	0	105	80	120				
Aliphatic Hydrocarbon (C10-C12)	105	5.00	100.0	0	105	80	120				
Aliphatic Hydrocarbon (C12-C16)	103	5.00	100.0	0	103	80	120				
Aliphatic Hydrocarbon (C16-C21)	104	5.00	100.0	0	104	80	120				
Aliphatic Hydrocarbon (C21-C34)	114	5.00	100.0	0	114	80	120				
Surr: 1-Chlorooctadecane	47.2		40.00		118	60	140				

Sample ID	ARO CCVB	SampType:	CCV	Units:	mg/Kg	Prep Date:	4/23/2016	RunNo:	28989		
Client ID:	CCV	Batch ID:	13403	Analysis Date:	4/23/2016	SeqNo:	545647				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	94.2	5.00	100.0	0	94.2	80	120				
Aromatic Hydrocarbon (C10-C12)	91.0	5.00	100.0	0	91.0	80	120				
Aromatic Hydrocarbon (C12-C16)	95.8	5.00	100.0	0	95.8	80	120				
Aromatic Hydrocarbon (C16-C21)	117	5.00	100.0	0	117	80	120				
Aromatic Hydrocarbon (C21-C34)	102	5.00	100.0	0	102	80	120				
Surr: o-Terphenyl	33.0		40.00		82.6	60	140				

Sample ID	LCS-13403	SampType:	LCS	Units:	mg/Kg	Prep Date:	4/6/2016	RunNo:	28989		
Client ID:	LCSS	Batch ID:	13403	Analysis Date:	4/23/2016	SeqNo:	546204				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	43.0	5.00	50.00	0	86.0	70	130				
Aromatic Hydrocarbon (C10-C12)	45.1	5.00	50.00	0	90.3	70	130				
Aromatic Hydrocarbon (C12-C16)	47.6	5.00	50.00	0	95.2	70	130				
Aromatic Hydrocarbon (C16-C21)	53.3	5.00	50.00	0	107	70	130				
Aromatic Hydrocarbon (C21-C34)	38.0	5.00	50.00	0	75.9	70	130				
Surr: o-Terphenyl	16.5		20.00		82.4	60	140				



Date: 4/27/2016

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QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID MB-13403	SampType: MBLK	Units: mg/Kg	Prep Date: 4/6/2016	RunNo: 28989							
Client ID: MBLKS	Batch ID: 13403		Analysis Date: 4/23/2016	SeqNo: 546205							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	5.00									
Aromatic Hydrocarbon (C10-C12)	ND	5.00									
Aromatic Hydrocarbon (C12-C16)	ND	5.00									
Aromatic Hydrocarbon (C16-C21)	ND	5.00									
Aromatic Hydrocarbon (C21-C34)	ND	5.00									
Surr: o-Terphenyl	15.1		20.00		75.6	60	140				

Sample ID 1604081-004ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/6/2016	RunNo: 28989							
Client ID: BATCH	Batch ID: 13403		Analysis Date: 4/23/2016	SeqNo: 546202							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	6.35						0		30	
Aromatic Hydrocarbon (C10-C12)	ND	6.35						0		30	
Aromatic Hydrocarbon (C12-C16)	ND	6.35						0		30	
Aromatic Hydrocarbon (C16-C21)	10.6	6.35						8.481	22.1	30	
Aromatic Hydrocarbon (C21-C34)	ND	6.35						0		30	
Surr: o-Terphenyl	16.6		25.41		65.3	60	140		0		

Sample ID ARO CCVC	SampType: CCV	Units: mg/Kg	Prep Date: 4/23/2016	RunNo: 28989							
Client ID: CCV	Batch ID: 13403		Analysis Date: 4/23/2016	SeqNo: 546203							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	104	5.00	100.0	0	104	80	120				
Aromatic Hydrocarbon (C10-C12)	102	5.00	100.0	0	102	80	120				
Aromatic Hydrocarbon (C12-C16)	107	5.00	100.0	0	107	80	120				
Aromatic Hydrocarbon (C16-C21)	120	5.00	100.0	0	120	80	120				
Aromatic Hydrocarbon (C21-C34)	89.3	5.00	100.0	0	89.3	80	120				
Surr: o-Terphenyl	38.3		40.00		95.7	60	140				

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QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	ICB-R28814	SampType:	ICB	Units:	mg/Kg	Prep Date:	4/12/2016	RunNo:	28814		
Client ID:	ICB	Batch ID:	R28814	Analysis Date:	4/12/2016	SeqNo:	546560				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	14.7	2.00		0	0						
Aliphatic Hydrocarbon (C6-C8)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C8-C10)	4.02	2.00		0	0						
Aliphatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C8-C10)	66.6	2.00		0	0						
Aromatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C12-C13)	ND	2.00		0	0						
Surr: 1,4-Difluorobenzene	46.5		50.00		93.0	65	140				
Surr: Bromofluorobenzene	38.8		50.00		77.6	65	140				

Sample ID	ICV-17311	SampType:	ICV	Units:	mg/Kg	Prep Date:	4/12/2016	RunNo:	28814		
Client ID:	ICV	Batch ID:	R28814	Analysis Date:	4/12/2016	SeqNo:	541585				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	894	2.00	600.0	0	149	70	130				S
Aliphatic Hydrocarbon (C6-C8)	182	2.00	200.0	0	91.2	70	130				
Aliphatic Hydrocarbon (C8-C10)	218	2.00	200.0	0	109	70	130				
Aliphatic Hydrocarbon (C10-C12)	244	2.00	200.0	0	122	70	130				
Aromatic Hydrocarbon (C8-C10)	984	2.00	800.0	0	123	70	130				
Aromatic Hydrocarbon (C10-C12)	254	2.00	200.0	0	127	70	130				
Aromatic Hydrocarbon (C12-C13)	184	2.00	200.0	0	91.9	70	130				
Surr: 1,4-Difluorobenzene	53.0		50.00		106	65	140				
Surr: Bromofluorobenzene	58.7		50.00		117	65	140				

Sample ID	CCV-A-13429	SampType:	CCV	Units:	mg/Kg	Prep Date:	4/12/2016	RunNo:	28816		
Client ID:	CCV	Batch ID:	R28816	Analysis Date:	4/12/2016	SeqNo:	541680				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	657	2.00	600.0	0	109	80	120				Q
Aliphatic Hydrocarbon (C6-C8)	185	2.00	200.0	0	92.6	80	120				

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	CCV-A-13429	SampType:	CCV	Units:	mg/Kg	Prep Date:	4/12/2016	RunNo:	28816		
Client ID:	CCV	Batch ID:	R28816	Analysis Date:	4/12/2016	SeqNo:	541680				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	199	2.00	200.0	0	99.4	80	120				
Aliphatic Hydrocarbon (C10-C12)	197	2.00	200.0	0	98.4	80	120				
Aromatic Hydrocarbon (C8-C10)	873	2.00	800.0	0	109	80	120				
Aromatic Hydrocarbon (C10-C12)	342	2.00	200.0	0	171	80	120				S
Aromatic Hydrocarbon (C12-C13)	301	2.00	200.0	0	150	80	120				S
Surr: 1,4-Difluorobenzene	51.6		50.00		103	65	140				
Surr: Bromofluorobenzene	54.7		50.00		109	65	140				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	LCS-13429	SampType:	LCS	Units:	mg/Kg	Prep Date:	4/11/2016	RunNo:	28816		
Client ID:	LCSS	Batch ID:	13429	Analysis Date:	4/12/2016	SeqNo:	541681				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	24.8	2.00	30.00	0	82.7	70	130				Q
Aliphatic Hydrocarbon (C6-C8)	8.19	2.00	10.00	0	81.9	70	130				
Aliphatic Hydrocarbon (C8-C10)	8.46	2.00	10.00	0	84.6	70	130				
Aliphatic Hydrocarbon (C10-C12)	11.8	2.00	10.00	0	118	70	130				
Aromatic Hydrocarbon (C8-C10)	37.5	2.00	40.00	0	93.6	70	130				
Aromatic Hydrocarbon (C10-C12)	14.9	2.00	10.00	0	149	70	130				S
Aromatic Hydrocarbon (C12-C13)	12.9	2.00	10.00	0	129	70	130				
Surr: 1,4-Difluorobenzene	2.02		2.500		80.6	65	140				
Surr: Bromofluorobenzene	2.33		2.500		93.1	65	140				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	MB-13429	SampType:	MBLK	Units:	mg/Kg	Prep Date:	4/11/2016	RunNo:	28816		
Client ID:	MBLKS	Batch ID:	13429	Analysis Date:	4/12/2016	SeqNo:	541630				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	2.00		0	0						Q
Aliphatic Hydrocarbon (C6-C8)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aromatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C12-C13)	ND	2.00		0	0						
Surr: 1,4-Difluorobenzene	2.46		2.500		98.2	65	140				
Surr: Bromofluorobenzene	1.82		2.500		72.9	65	140				

NOTES:

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	1604078-003ADUP	SampType:	DUP	Units:	mg/Kg	Prep Date:	4/11/2016	RunNo:	28816		
Client ID:	BATCH	Batch ID:	13429	Analysis Date:	4/12/2016	SeqNo:	541616				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	1.91		0	0			0		25	QH
Aliphatic Hydrocarbon (C6-C8)	ND	1.91		0	0			0		25	H
Aliphatic Hydrocarbon (C8-C10)	ND	1.91		0	0			0		25	H
Aliphatic Hydrocarbon (C10-C12)	ND	1.91		0	0			0		25	H
Aromatic Hydrocarbon (C8-C10)	ND	1.91		0	0			0		25	H
Aromatic Hydrocarbon (C10-C12)	ND	1.91		0	0			0		25	H
Aromatic Hydrocarbon (C12-C13)	ND	1.91		0	0			0		25	H
Surr: 1,4-Difluorobenzene	2.48		2.385		104	65	140		0		H
Surr: Bromofluorobenzene	2.00		2.385		83.8	65	140		0	0	H

NOTES:

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	1604081-001AMS	SampType:	MS	Units:	mg/Kg	Prep Date:	4/11/2016	RunNo:	28816		
Client ID:	BATCH	Batch ID:	13429	Analysis Date:	4/12/2016	SeqNo:	541621				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	20.4	1.59	23.89	0	85.4	70	130				Q
Aliphatic Hydrocarbon (C6-C8)	7.49	1.59	7.962	0	94.1	70	130				
Aliphatic Hydrocarbon (C8-C10)	6.74	1.59	7.962	0	84.6	70	130				
Aliphatic Hydrocarbon (C10-C12)	9.69	1.59	7.962	0	122	70	130				
Aromatic Hydrocarbon (C8-C10)	30.1	1.59	31.85	0	94.4	70	130				
Aromatic Hydrocarbon (C10-C12)	16.2	1.59	7.962	0	204	70	130				S
Aromatic Hydrocarbon (C12-C13)	8.95	1.59	7.962	0	112	70	130				
Surr: 1,4-Difluorobenzene	1.76		1.990		88.6	65	140				
Surr: Bromofluorobenzene	1.97		1.990		99.0	65	140				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	1604081-001AMSD	SampType:	MSD	Units:	mg/Kg	Prep Date:	4/11/2016	RunNo:	28816		
Client ID:	BATCH	Batch ID:	13429	Analysis Date:	4/12/2016	SeqNo:	541622				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	19.9	1.59	23.89	0	83.4	70	130	20.41	2.46	30	Q
Aliphatic Hydrocarbon (C6-C8)	6.68	1.59	7.962	0	83.9	70	130	7.492	11.5	30	
Aliphatic Hydrocarbon (C8-C10)	7.17	1.59	7.962	0	90.1	70	130	6.738	6.21	30	
Aliphatic Hydrocarbon (C10-C12)	10.3	1.59	7.962	0	129	70	130	9.690	6.16	30	
Aromatic Hydrocarbon (C8-C10)	30.6	1.59	31.85	0	96.1	70	130	30.08	1.69	30	
Aromatic Hydrocarbon (C10-C12)	18.0	1.59	7.962	0	226	70	130	16.24	10.3	30	S
Aromatic Hydrocarbon (C12-C13)	12.2	1.59	7.962	0	153	70	130	8.954	30.5	30	RS
Surr: 1,4-Difluorobenzene	1.69		1.990		84.9	65	140		0		
Surr: Bromofluorobenzene	1.93		1.990		96.9	65	140		0	0	

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.
 R - High RPD observed.
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Date: 4/27/2016

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID CCV-B-13429	SampType: CCV	Units: mg/Kg	Prep Date: 4/13/2016	RunNo: 28816							
Client ID: CCV	Batch ID: 13429		Analysis Date: 4/13/2016	SeqNo: 541628							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (C5-C6)	494	2.00	600.0	0	82.4	80	120				
Aliphatic Hydrocarbon (C6-C8)	189	2.00	200.0	0	94.7	80	120				
Aliphatic Hydrocarbon (C8-C10)	161	2.00	200.0	0	80.4	80	120				
Aliphatic Hydrocarbon (C10-C12)	164	2.00	200.0	0	81.8	80	120				
Aromatic Hydrocarbon (C8-C10)	684	2.00	800.0	0	85.6	80	120				
Aromatic Hydrocarbon (C10-C12)	253	2.00	200.0	0	127	80	120				S
Aromatic Hydrocarbon (C12-C13)	220	2.00	200.0	0	110	80	120				
Surr: 1,4-Difluorobenzene	42.4		50.00		84.8	65	140				
Surr: Bromofluorobenzene	42.0		50.00		83.9	65	140				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Date: 4/27/2016

Work Order: 1604079
CLIENT: Apex Laboratories
Project: A6C1134

QC SUMMARY REPORT
Sample Moisture (Percent Moisture)

Sample ID 1604078-002ADUP	SampType: DUP	Units: wt%	Prep Date: 4/11/2016	RunNo: 28687							
Client ID: BATCH	Batch ID: R28687	Analysis Date: 4/11/2016	SeqNo: 539603								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	40.5	0.500						36.85	9.52	20	

Client Name: **APEX**
 Logged by: **Erica Silva**

Work Order Number: **1604079**
 Date Received: **4/9/2016 12:34:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	2.1
Sample	2.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT ORDER

Apex Laboratories

A6C1134

1604079

SENDING LABORATORY:

Apex Laboratories
12232 S.W. Garden Place
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 718-0333
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:


Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103
Phone : (206) 352-3790
Fax: (206) 352-7178

Sample Name: 5237-160330-DC-EMB050G Soil Sampled: **03/30/16 15:30** **Soil Embankmebnt (1.5)** (A6C1134-15)

Analysis	Due	Expires	Comments
NWTPH-VPH (Sub) <i>Containers Supplied:</i> (B)40 mL VOA - 5035 (MeOH)	04/13/16 17:00	04/13/16 15:30	level IV DP needed

Sample Name: 5237-160330-DC-EMB050 Soil Sampled: **03/30/16 15:30** **Soil Embankmebnt (0-3.5)** (A6C1134-16)

Analysis	Due	Expires	Comments
NWTPH-EPH (Sub) <i>Containers Supplied:</i> (F)4 oz Glass Jar	04/13/16 17:00	04/13/16 15:30	Level IV DP needed

Released By  Date **4/8/16**
UPS (Shipper)

UPS (Shipper)

Received By _____ Date _____

Released By _____ Date _____

Received By  Date **4/9/16**

DATA SET for Review -- Deliverable Requirements

EPH by NWTPH-EPH

Fremont Analytical Work Order No. 1604079

APEX Laboratories

Project Name: A6C1134

This Data set contains the following:

- Method Detection Limits
- Analytical Sequence Summary for **Work Order 1604079**
- Raw Printouts and Chromatograms for Analytical Sequence(s) governing **Work Order 1604079** including: Initial and Continuing Calibration Data, Blank, Laboratory Control, Duplicates, Spikes, Samples / Batch QC
- Prep Summary and Bench Sheets

Injection Log

Directory: C:\GC20\DATA\04221620

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	042201.d	1.	ALI CCV	CCV O-EPH-S	22 Apr 2016 14:51
2	14	042202.d	1.	ARO CCV	CCV O-EPH-S	22 Apr 2016 15:38
3	21	042203.d	1.	FLA TPH	CCV O-EPH-S	22 Apr 2016 16:26
4	22	042204.d	1.	ALI IDC1	LCS O-EPH-S	22 Apr 2016 17:13
5	23	042205.d	1.	LCS-13403	LCS O-EPH-S	22 Apr 2016 18:01
6	24	042206.d	1.	ALI IDC3	LCS O-EPH-S	22 Apr 2016 18:48
7	25	042207.d	1.	ALI IDC4	LCS O-EPH-S	22 Apr 2016 19:34
8	26	042208.d	1.	MB-13403	MBLK O-EPH-S	22 Apr 2016 20:20
9	27	042209.d	1.	LCS-13403	MBLK O-EPH-S	22 Apr 2016 21:05
10	28	042210.d	1.	1604078-002A	SAMP O-EPH-S	22 Apr 2016 21:51
11	29	042211.d	1.	1604078-004A	SAMP O-EPH-S	22 Apr 2016 22:37
12	30	042212.d	1.	1604079-002A	SAMP O-EPH-S	22 Apr 2016 23:22
13	31	042213.d	1.	1604080-002A	SAMP O-EPH-S	23 Apr 2016 00:08
14	32	042214.d	1.	1604080-004A	SAMP O-EPH-S	23 Apr 2016 00:53
15	33	042215.d	1.	1604081-002	SAMP O-EPH-S	23 Apr 2016 01:38
16	34	042216.d	1.	1604081-004	SAMP O-EPH-S	23 Apr 2016 02:23
17	35	042217.d	1.	1604081-004DUP	DUP O-EPH-S	23 Apr 2016 03:08
18	4	042218.d	1.	ALI CCV	CCV O-EPH-S	23 Apr 2016 03:53
19	14	042219.d	1.	ARO CCV	CCV O-EPH-S	23 Apr 2016 04:38
20	36	042220.d	1.	AR IDC1	LCS O-EPH-S	23 Apr 2016 05:23
21	37	042221.d	1.	LCS-13403	LCS O-EPH-S	23 Apr 2016 06:08
22	38	042222.d	1.	AR IDC3	LCS O-EPH-S	23 Apr 2016 06:53
23	39	042223.d	1.	AR IDC4	LCS O-EPH-S	23 Apr 2016 07:37
24	40	042224.d	1.	MB-13403	MBLK O-EPH-S	23 Apr 2016 08:22
25	41	042225.d	1.	LCS-13403	LCS O-EPH-S	23 Apr 2016 09:07
26	42	042226.d	1.	1604078-002A	SAMP O-EPH-S	23 Apr 2016 09:52
27	43	042227.d	1.	1604078-004A	SAMP O-EPH-S	23 Apr 2016 10:37
28	44	042228.d	1.	1604079-002A	SAMP O-EPH-S	23 Apr 2016 11:22
29	45	042229.d	1.	1604080-002A	SAMP O-EPH-S	23 Apr 2016 12:07
30	46	042230.d	1.	1604080-004A	SAMP O-EPH-S	23 Apr 2016 12:52
31	47	042231.d	1.	1604081-002A	SAMP O-EPH-S	23 Apr 2016 13:38
32	48	042232.d	1.	1604081-004A	SAMP O-EPH-S	23 Apr 2016 14:24
33	49	042233.d	1.	1604081-004ADUP	DUP O-EPH-S	23 Apr 2016 15:10
34	14	042234.d	1.	ARO CCV	CCV O-EPH-S	23 Apr 2016 15:56



Calibration

Injection Log

Directory: C:\GC20\DATA\04211620

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	042101.d	1.	CO	CO O-EPH-S	21 Apr 2016 14:49
2	100	042102.d	1.	CO	CO O-EPH-S	21 Apr 2016 15:44
3	1	042103.d	1.	ALI CAL10	CO O-EPH-S	21 Apr 2016 16:42
4	2	042104.d	1.	ALI CAL20	ICAL 1 O-EPH-S	21 Apr 2016 17:39
5	3	042105.d	1.	ALI CAL50	ICAL 2 O-EPH-S	21 Apr 2016 18:34
6	4	042106.d	1.	ALI CAL100	ICAL 3 O-EPH-S	21 Apr 2016 19:24
7	5	042107.d	1.	ALI CAL200	ICAL 4 O-EPH-S	21 Apr 2016 20:13
8	6	042108.d	1.	ALI CAL500	ICAL 5 O-EPH-S	21 Apr 2016 21:01
9	7	042109.d	1.	ALI CAL1000	ICAL 6 O-EPH-S	21 Apr 2016 21:49
10	8	042110.d	1.	ALI CAL2000	ICAL 7 O-EPH-S	21 Apr 2016 22:36
11	9	042111.d	1.	ALI ICB	ICB O-EPH-S	21 Apr 2016 23:23
12	10	042112.d	1.	ALI ICV	ICV O-EPH-S	22 Apr 2016 00:11
13	11	042113.d	1.	ARO CAL10	ICV O-EPH-S	22 Apr 2016 00:57
14	12	042114.d	1.	ARO CAL20	ICAL 1 O-EPH-S	22 Apr 2016 01:44
15	13	042115.d	1.	ARO CAL50	ICAL 2 O-EPH-S	22 Apr 2016 02:31
16	14	042116.d	1.	ARO CAL100	ICAL 3 O-EPH-S	22 Apr 2016 03:17
17	15	042117.d	1.	ARO CAL200	ICAL 4 O-EPH-S	22 Apr 2016 04:03
18	16	042118.d	1.	ARO CAL500	ICAL 5 O-EPH-S	22 Apr 2016 04:49
19	17	042119.d	1.	ARO CAL1000	ICAL 6 O-EPH-S	22 Apr 2016 05:35
20	18	042120.d	1.	ARO CAL2000	ICAL 7 O-EPH-S	22 Apr 2016 06:21
21	19	042121.d	1.	ARO ICB	ICB O-EPH-S	22 Apr 2016 07:06
22	20	042122.d	1.	ARO ICV	ICV O-EPH-S	22 Apr 2016 07:52

Method : C:\GC20\METHODS\QUANT METHODS\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration

Calibration Files

1 =042103 2 =042104 3 =042105 4 =042106 5 =042107
 6 =042108 7 =042109 8 =042110

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S		1-Chlorooctadecane	Quad	-7.8467 e3	3.2649 e3	9.6747	1.000
2) S		o-Terphenyl	Avg	-----	7.9476 e3	-----	0.029
3) H		Aliphatic (C8-C10)	Avg	-----	1.0911 e4	-----	0.043
4) H		Aliphatic (C10-C12)	Avg	-----	1.1625 e4	-----	0.049
5) H		Aliphatic (C12-C16)	Avg	-----	1.1935 e4	-----	0.060
6) H		Aliphatic (C16-C21)	Quad	3.7398 e4	6.4571 e2	-0.3418	0.994
7) H		Aliphatic (C21-C34)	Avg	-----	7.1502 e3	-----	0.150

ALG20421.M

Tue May 10 14:28:14 2016

Method : C:\GC20\METHODS\QUANT METHODS\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016

Calibration Files

1 =042103.D 2 =042104.D 3 =042105.D
 4 =042106.D 5 =042107.D 6 =042108.D

Compound		1	2	3	4	5	6	Avg		%RSD
1) S	1-Chlorooctadecane	2.095	2.408	2.896	3.418	4.173	5.159	3.358	E3	34.27
2) S	o-Terphenyl	8.139	7.715	7.774	7.803	7.959	8.297	7.948	E3	2.89
3) H	Aliphatic (C8-C10)	1.133	1.147	1.117	1.071	1.041	1.039	1.091	E4	4.34
4) H	Aliphatic (C10-C12)	1.215	1.239	1.179	1.127	1.106	1.108	1.162	E4	4.92
5) H	Aliphatic (C12-C16)	1.301	1.237	1.223	1.133	1.132	1.135	1.194	E4	5.96
6) H	Aliphatic (C16-C21)	3.965	3.084	1.506	0.812	0.766	0.558	1.576	E3	88.94
7) H	Aliphatic (C21-C34)	6.429	6.455	6.310	6.865	7.820	9.023	7.150	E3	14.99

(#) = Out of Range ### Number of calibration levels exceeded format ###

ALG20421.M

Tue May 10 14:28:37 2016

Data File : C:\GC20\DATA\04211620\042103.D Vial: 1
 Acq On : 21 Apr 2016 4:42 pm Operator: CM
 Sample : ALI CAL10 Inst : GC #20
 Misc : CO O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:26 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:45:01 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

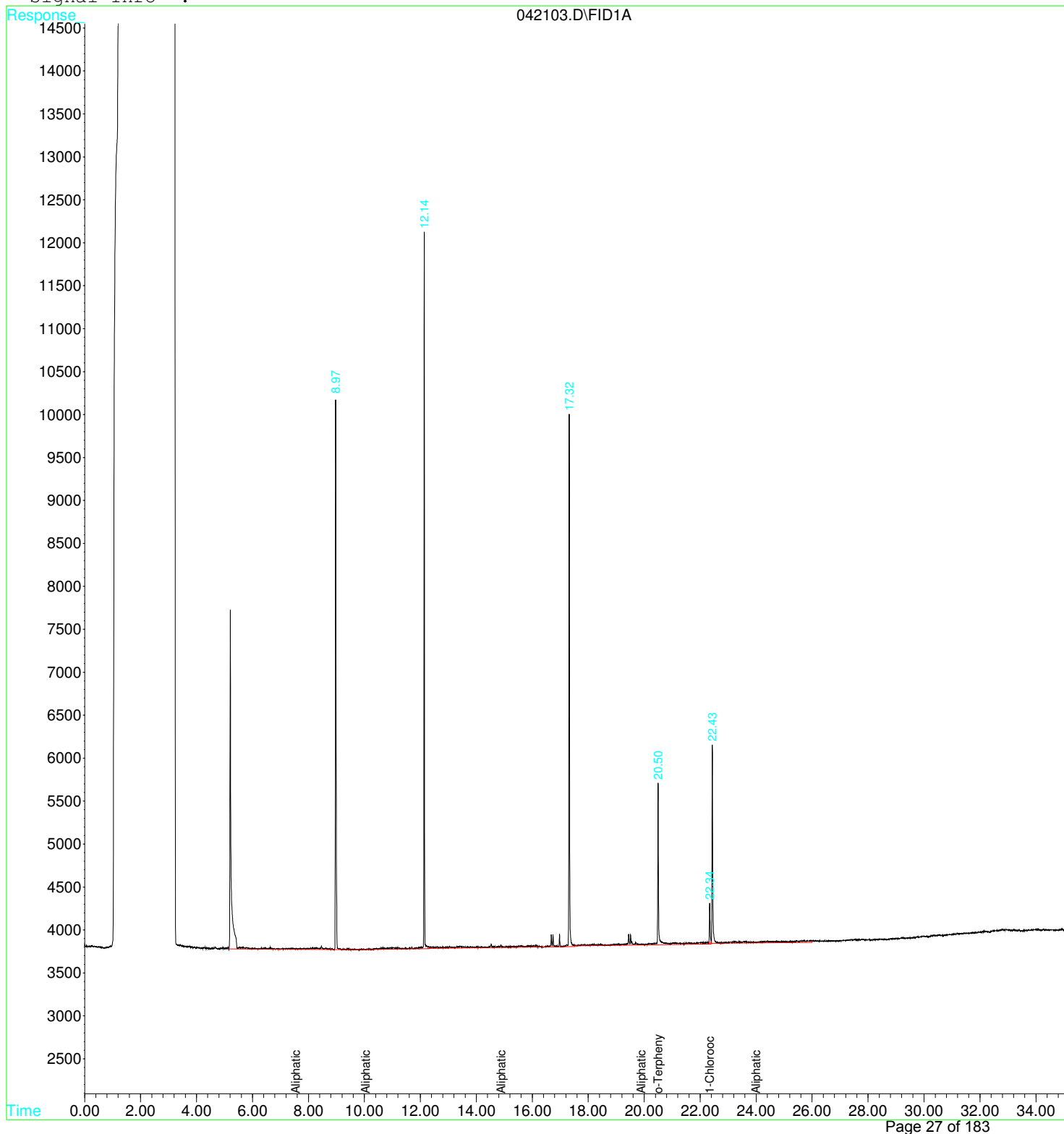
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34f	8379	1.096 mg/L m
2) S o-Terphenyl	20.50	32555	3.496 mg/L m
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	226565	22.148 mg/L
4) H Aliphatic (C10-C12)	10.05	121521	11.405 mg/L
5) H Aliphatic (C12-C16)	14.90	130141	11.298 mg/L
6) H Aliphatic (C16-C21)	19.90	39647	3.097 mg/L
7) H Aliphatic (C21-C34)	24.00	64288	5.502 mg/L

Data File : C:\GC20\DATA\04211620\042103.D Vial: 1
Acq On : 21 Apr 2016 4:42 pm Operator: CM
Sample : ALI CAL10 Inst : GC #20
Misc : CO O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 25 13:26 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 12:45:01 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04211620\042104.D Vial: 2
 Acq On : 21 Apr 2016 5:39 pm Operator: CM
 Sample : ALI CAL20 Inst : GC #20
 Misc : ICAL 1 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:24 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

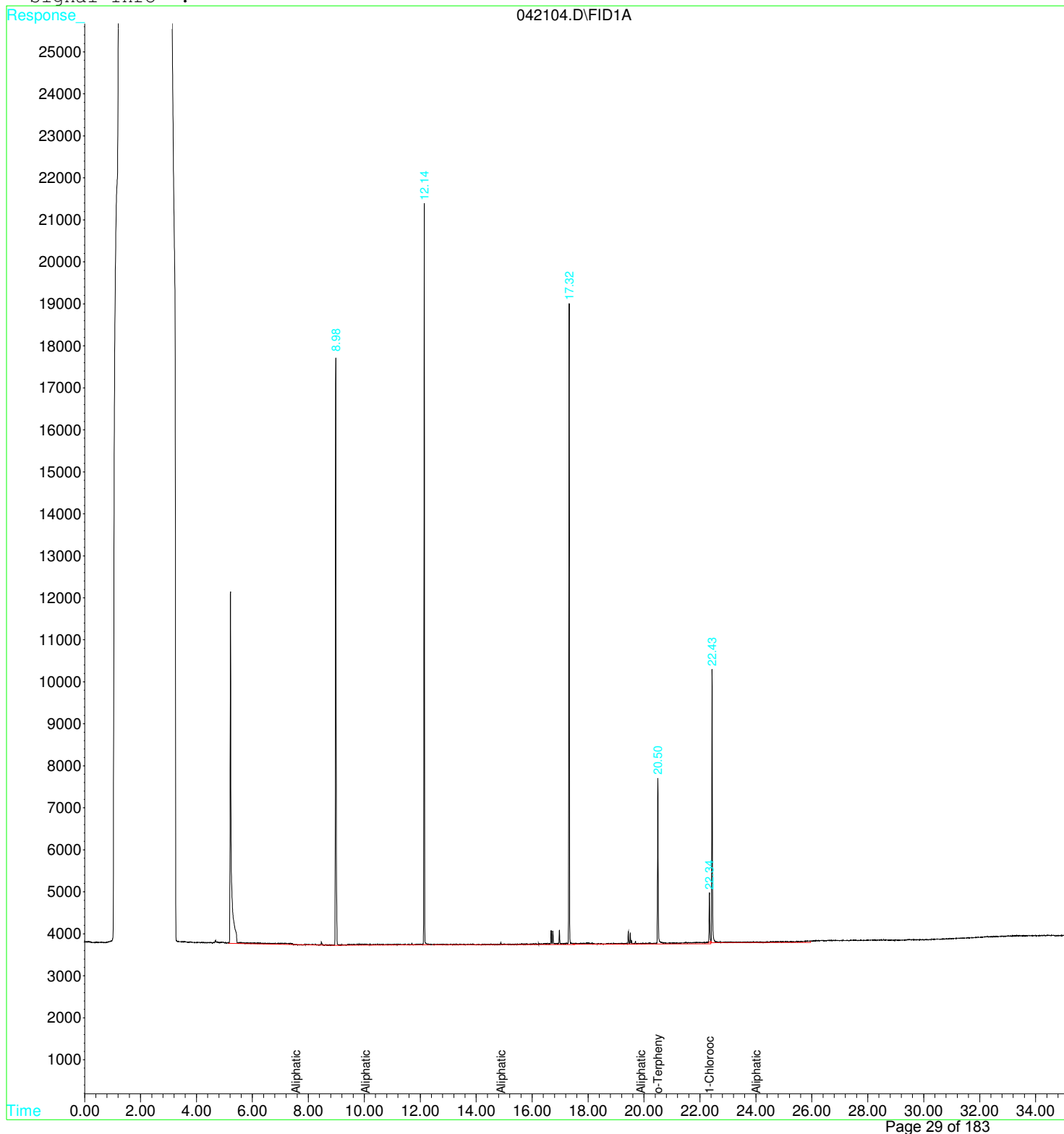
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34	19264	2.520 mg/L m
2) S o-Terphenyl	20.50	61718	6.628 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	458627	44.833 mg/L
4) H Aliphatic (C10-C12)	10.05	247857	23.263 mg/L
5) H Aliphatic (C12-C16)	14.90	247444	21.482 mg/L
6) H Aliphatic (C16-C21)	19.90	61671	4.818 mg/L
7) H Aliphatic (C21-C34)	24.00	129102	11.049 mg/L

Data File : C:\GC20\DATA\04211620\042104.D Vial: 2
Acq On : 21 Apr 2016 5:39 pm Operator: CM
Sample : ALI CAL20 Inst : GC #20
Misc : ICAL 1 O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 25 13:24 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 12:48:41 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04211620\042105.D Vial: 3
 Acq On : 21 Apr 2016 6:34 pm Operator: CM
 Sample : ALI CAL50 Inst : GC #20
 Misc : ICAL 2 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:16 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

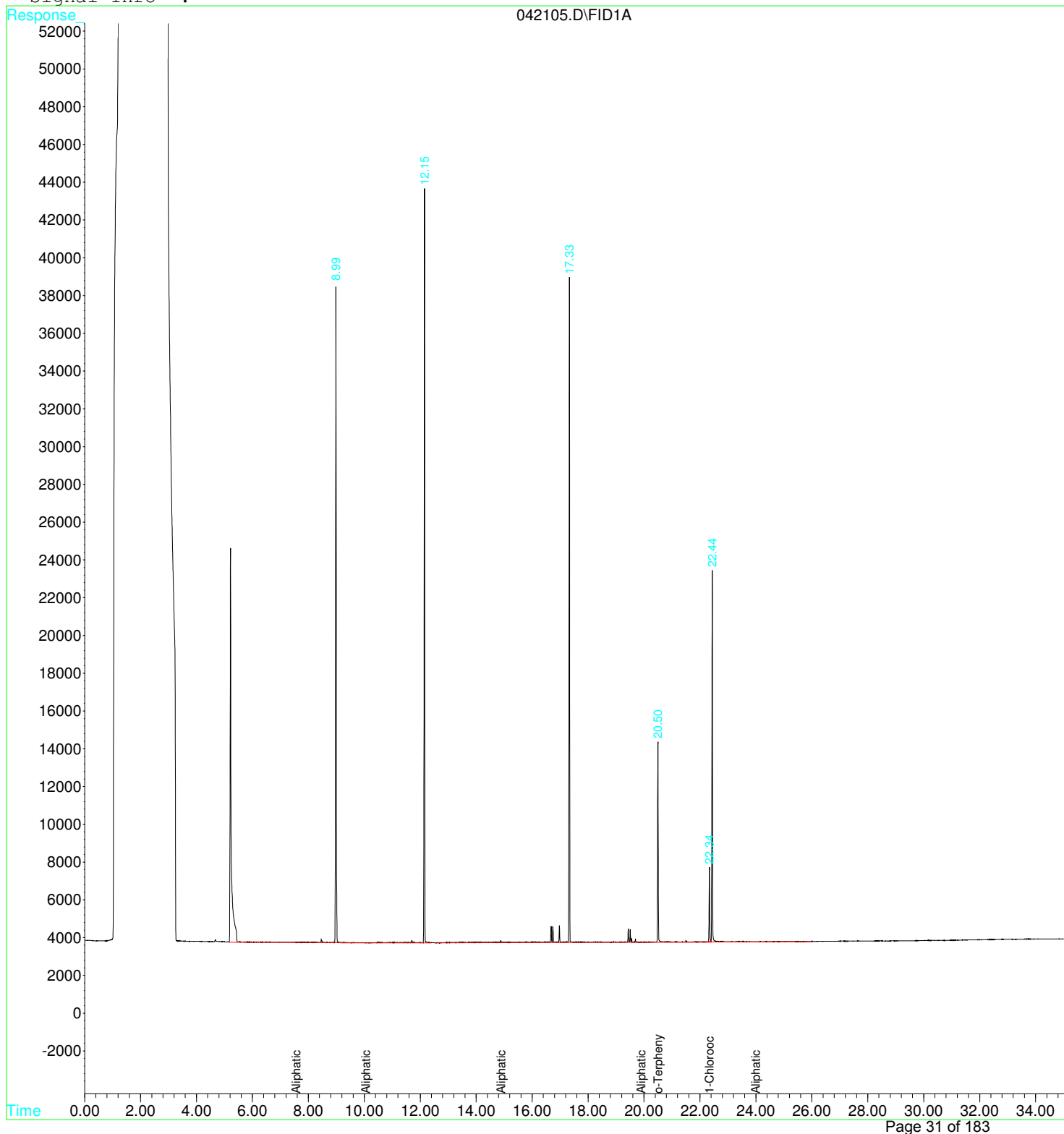
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34	57921	7.577 mg/L
2) S o-Terphenyl	20.50	155473	16.696 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	1117333	109.224 mg/L
4) H Aliphatic (C10-C12)	10.05	589654	55.342 mg/L
5) H Aliphatic (C12-C16)	14.90	611283	53.069 mg/L
6) H Aliphatic (C16-C21)	19.90	75283	5.881 mg/L
7) H Aliphatic (C21-C34)	24.00	315505	27.001 mg/L

Data File : C:\GC20\DATA\04211620\042105.D Vial: 3
 Acq On : 21 Apr 2016 6:34 pm Operator: CM
 Sample : ALI CAL50 Inst : GC #20
 Misc : ICAL 2 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:16 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042106.D Vial: 4
 Acq On : 21 Apr 2016 7:24 pm Operator: CM
 Sample : ALI CAL100 Inst : GC #20
 Misc : ICAL 3 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:17 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

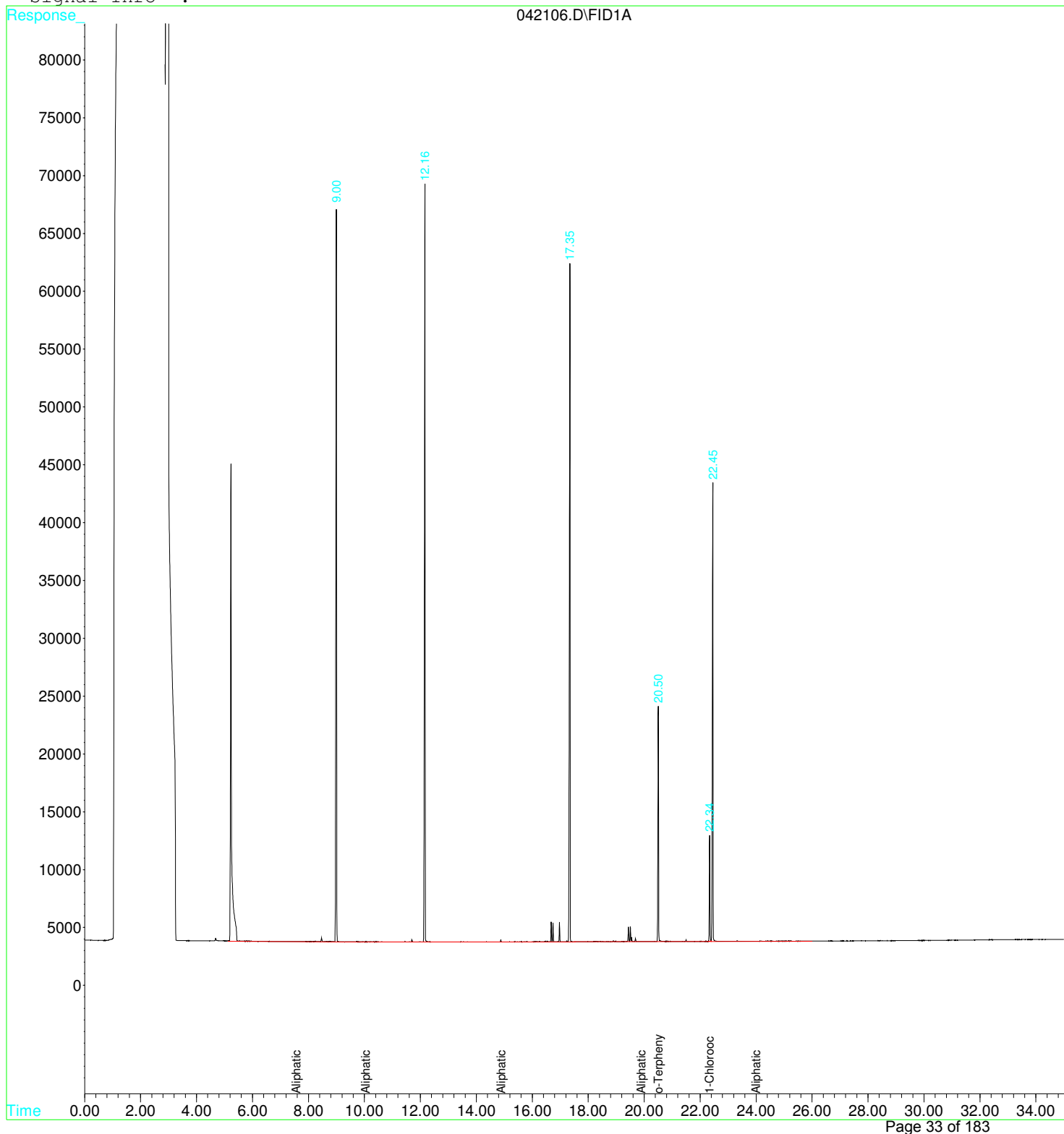
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34	136740	17.887 mg/L
2) S o-Terphenyl	20.50	312111	33.518 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	2141075	209.299 mg/L
4) H Aliphatic (C10-C12)	10.05	1127114	105.786 mg/L
5) H Aliphatic (C12-C16)	14.90	1133317	98.390 mg/L
6) H Aliphatic (C16-C21)	19.90	81241	6.347 mg/L
7) H Aliphatic (C21-C34)	24.00	686451	58.746 mg/L

Data File : C:\GC20\DATA\04211620\042106.D Vial: 4
 Acq On : 21 Apr 2016 7:24 pm Operator: CM
 Sample : ALI CAL100 Inst : GC #20
 Misc : ICAL 3 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:17 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042107.D Vial: 5
 Acq On : 21 Apr 2016 8:13 pm Operator: CM
 Sample : ALI CAL200 Inst : GC #20
 Misc : ICAL 4 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:34 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

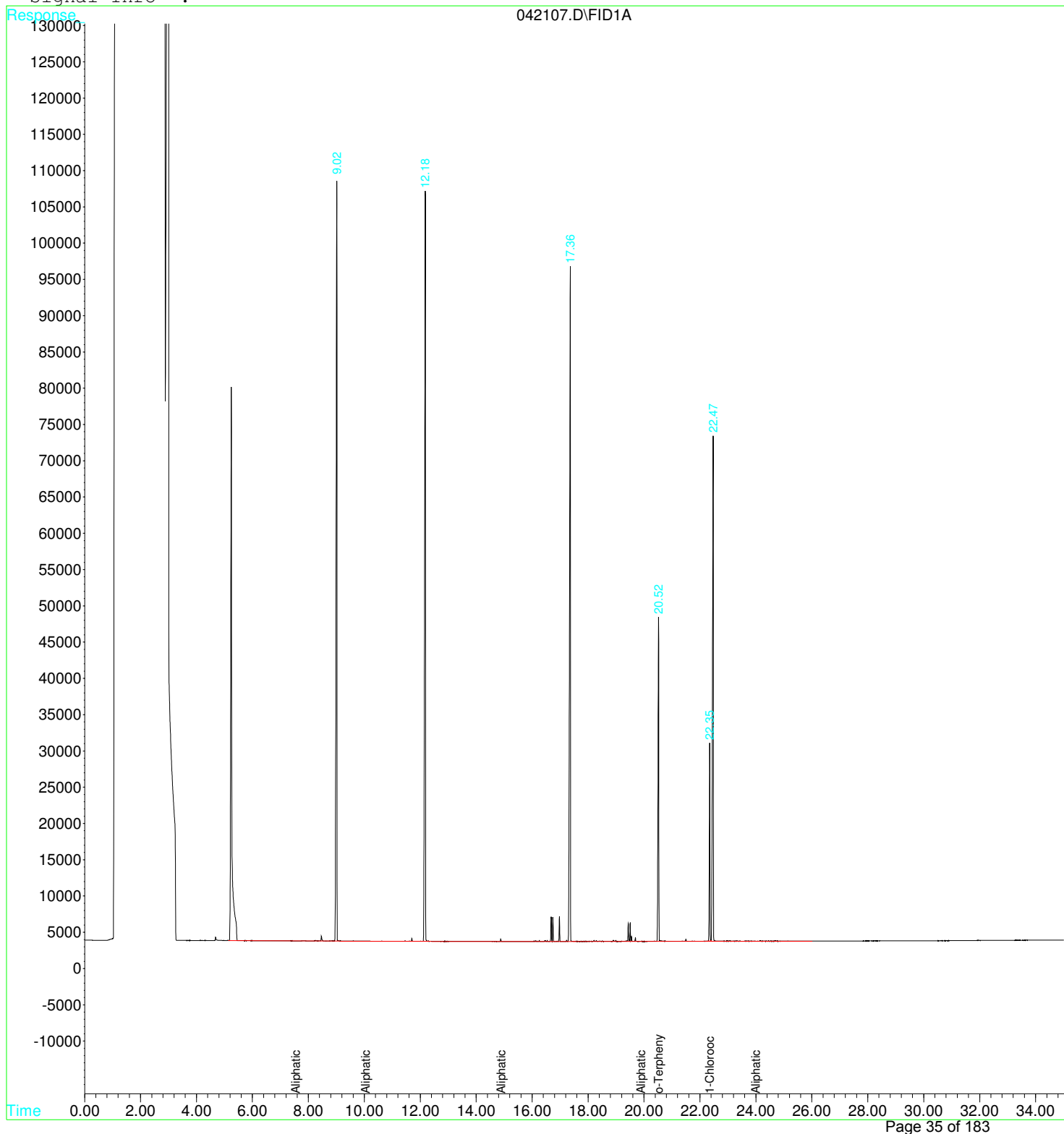
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.35	417272	54.584 mg/L
2) S o-Terphenyl	20.52	795885	85.471 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	4163525	407.001 mg/L
4) H Aliphatic (C10-C12)	10.05	2211582	207.568 mg/L
5) H Aliphatic (C12-C16)	14.90	2263659	196.523 mg/L
6) H Aliphatic (C16-C21)	19.90	153239	11.972 mg/L
7) H Aliphatic (C21-C34)	24.00	1563958	133.843 mg/L

Data File : C:\GC20\DATA\04211620\042107.D Vial: 5
 Acq On : 21 Apr 2016 8:13 pm Operator: CM
 Sample : ALI CAL200 Inst : GC #20
 Misc : ICAL 4 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:34 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042108.D Vial: 6
 Acq On : 21 Apr 2016 9:01 pm Operator: CM
 Sample : ALI CAL500 Inst : GC #20
 Misc : ICAL 5 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:34 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

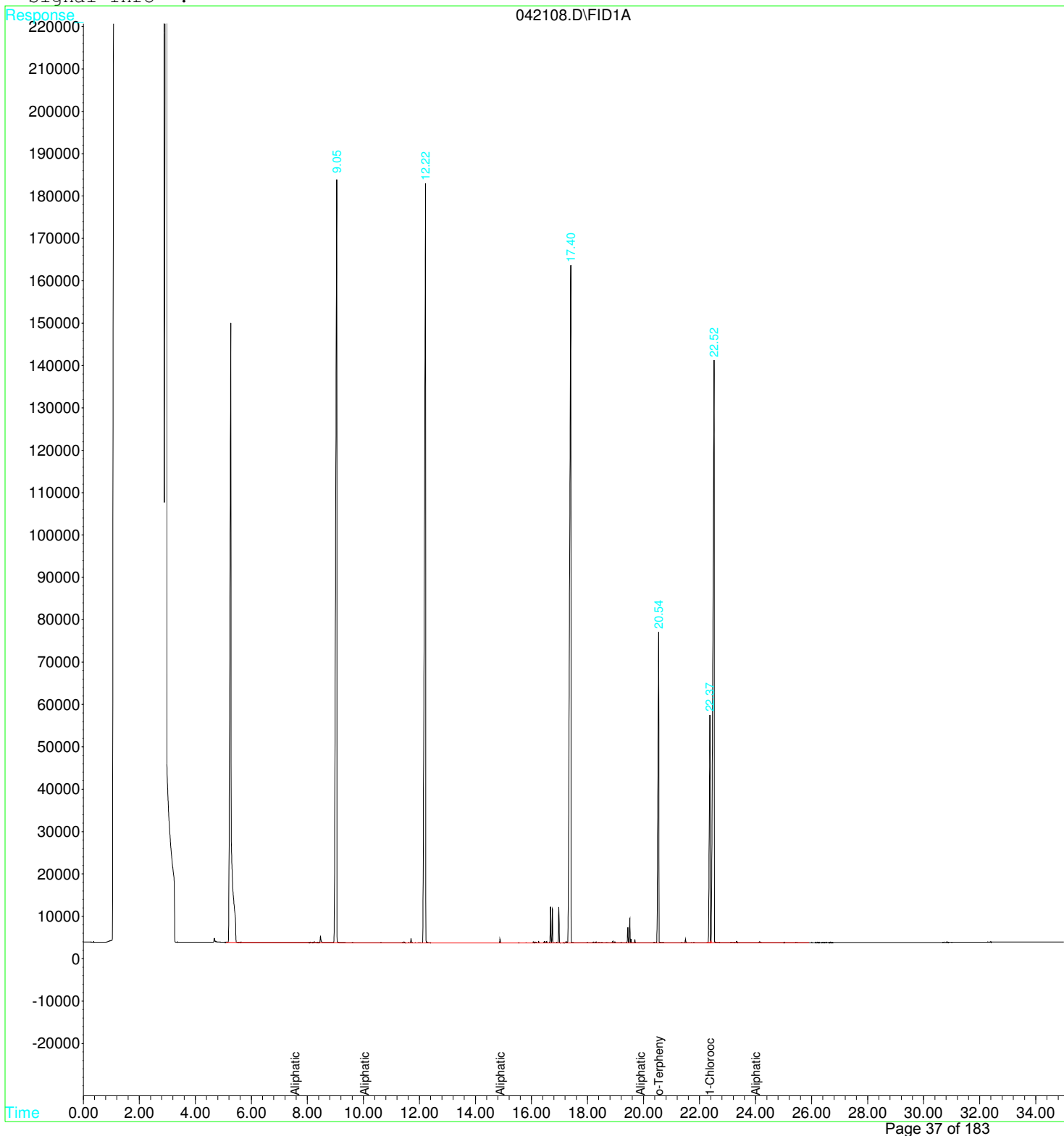
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.37	1031739	134.964 mg/L
2) S o-Terphenyl	20.54f	1659321	178.197 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	10386716	1015.342 mg/L
4) H Aliphatic (C10-C12)	10.05	5540355	519.991 mg/L
5) H Aliphatic (C12-C16)	14.90	5673531	492.555 mg/L
6) H Aliphatic (C16-C21)	19.90	278840	21.784 mg/L
7) H Aliphatic (C21-C34)	24.00	4511555	386.098 mg/L

Data File : C:\GC20\DATA\04211620\042108.D Vial: 6
 Acq On : 21 Apr 2016 9:01 pm Operator: CM
 Sample : ALI CAL500 Inst : GC #20
 Misc : ICAL 5 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:34 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042109.D Vial: 7
 Acq On : 21 Apr 2016 9:49 pm Operator: CM
 Sample : ALI CAL1000 Inst : GC #20
 Misc : ICAL 6 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:37 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

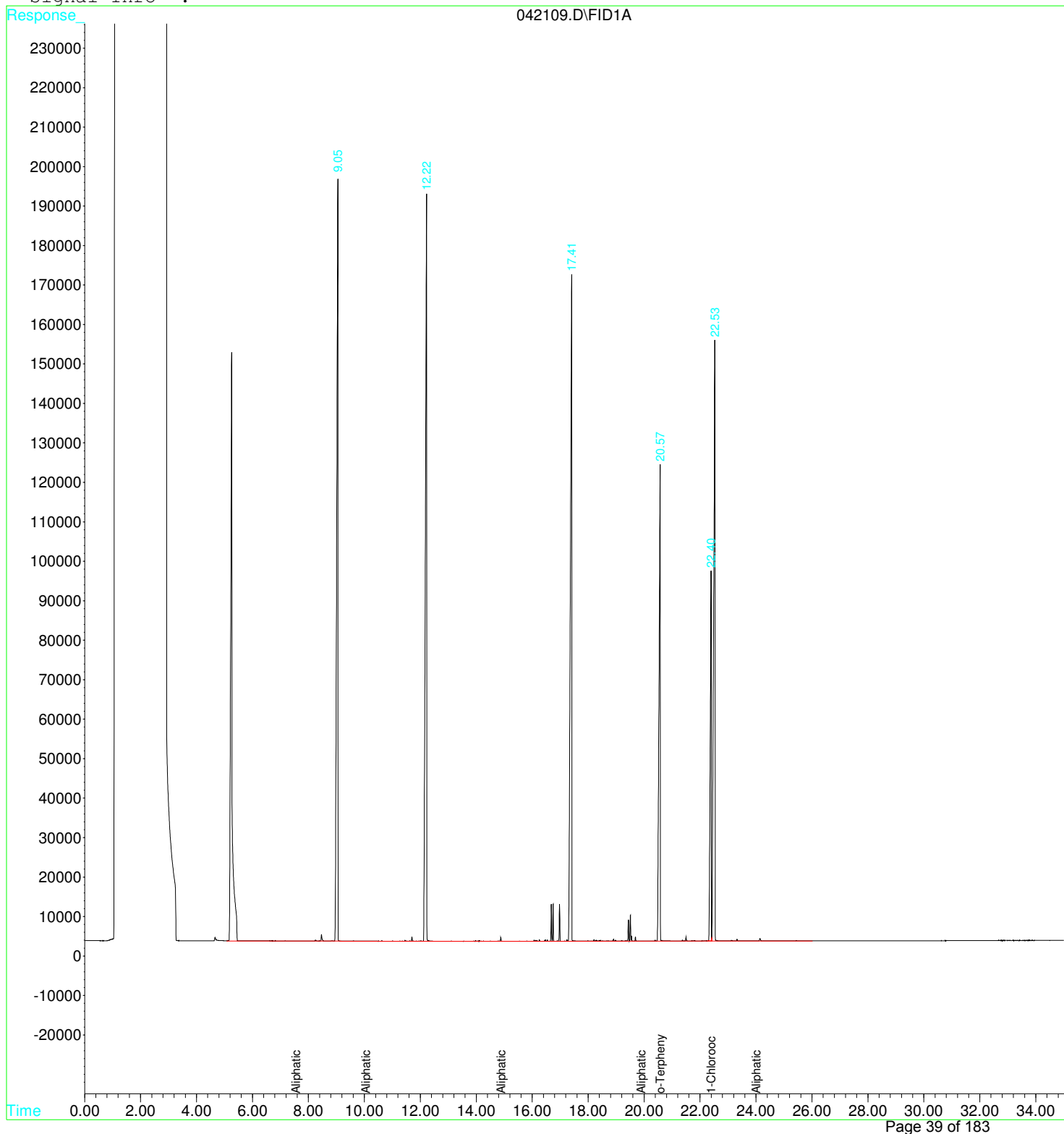
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.39f	2435934	318.649 mg/L
2) S o-Terphenyl	20.57f	3676420	394.816 mg/L m
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	11610644	1134.986 mg/L
4) H Aliphatic (C10-C12)	10.05	6204528	582.327 mg/L
5) H Aliphatic (C12-C16)	14.90	6368409	552.882 mg/L
6) H Aliphatic (C16-C21)	19.90	340459	26.598 mg/L
7) H Aliphatic (C21-C34)	24.00	5473361	468.409 mg/L

Data File : C:\GC20\DATA\04211620\042109.D Vial: 7
 Acq On : 21 Apr 2016 9:49 pm Operator: CM
 Sample : ALI CAL1000 Inst : GC #20
 Misc : ICAL 6 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:37 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042110.D Vial: 8
 Acq On : 21 Apr 2016 10:36 pm Operator: CM
 Sample : ALI CAL2000 Inst : GC #20
 Misc : ICAL 7 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:28 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

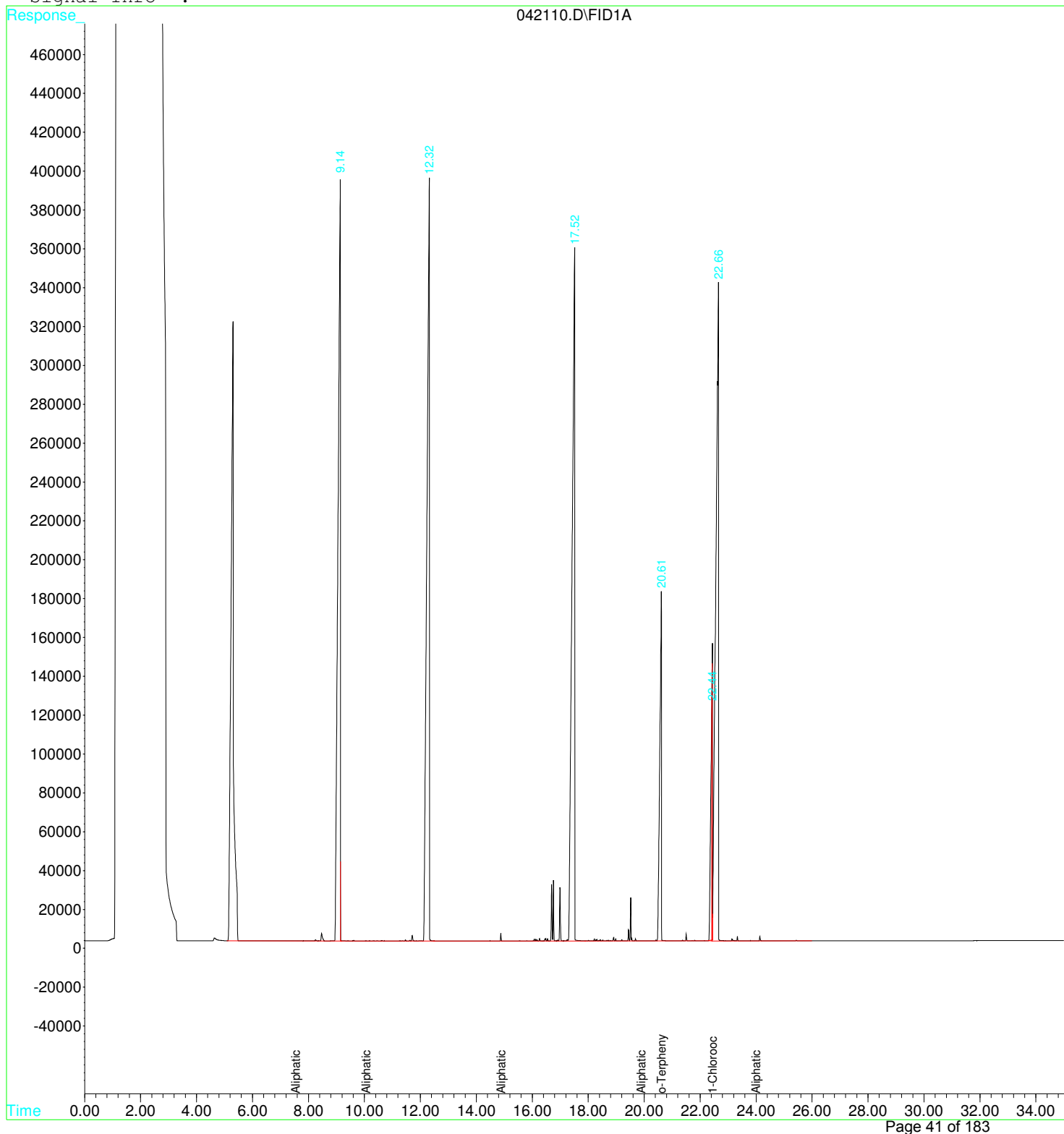
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.44f	5554815	726.637 mg/L m
2) S o-Terphenyl	20.61f	7412854	796.077 mg/L m
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	43534575	4255.676 mg/L
4) H Aliphatic (C10-C12)	10.05	23980348	2250.680 mg/L
5) H Aliphatic (C12-C16)	14.90	24998099	2170.243 mg/L
6) H Aliphatic (C16-C21)	19.90	5562884	434.597 mg/L
7) H Aliphatic (C21-C34)	24.00	19751920	1690.365 mg/L

Data File : C:\GC20\DATA\04211620\042110.D Vial: 8
 Acq On : 21 Apr 2016 10:36 pm Operator: CM
 Sample : ALI CAL2000 Inst : GC #20
 Misc : ICAL 7 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:28 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 12:48:41 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042111.D Vial: 9
 Acq On : 21 Apr 2016 11:23 pm Operator: CM
 Sample : ALI ICB Inst : GC #20
 Misc : ICB O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:44 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:37:52 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

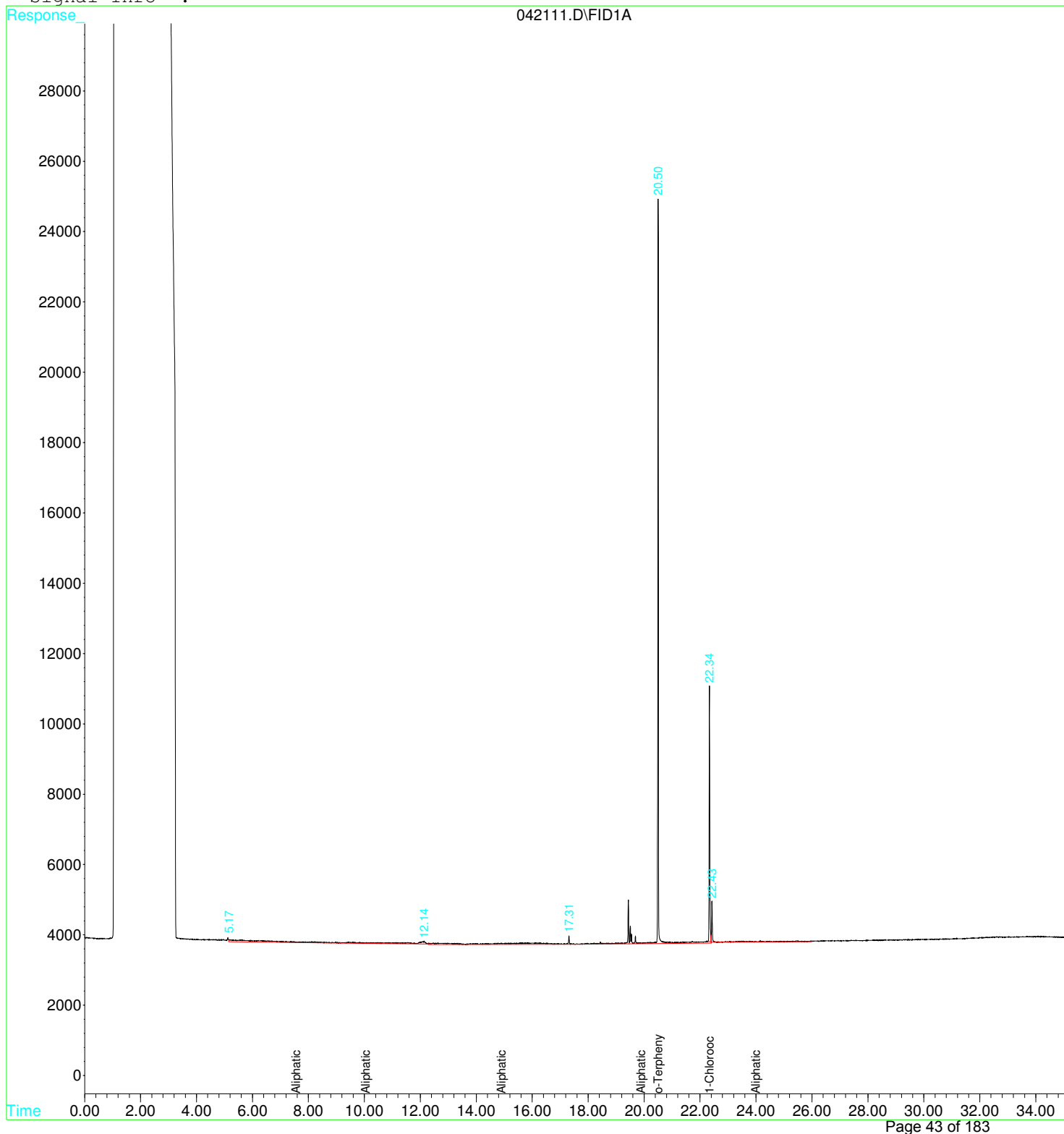
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34	118159	31.234 mg/L m
2) S o-Terphenyl	20.50	332286	41.810 mg/L m
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	62624	27.086 mg/L
4) H Aliphatic (C10-C12)	10.05	38011	14.073 mg/L
5) H Aliphatic (C12-C16)	14.90	68807	16.111 mg/L
6) H Aliphatic (C16-C21)	19.90	96769	96.920 mg/L
7) H Aliphatic (C21-C34)	24.00	41162	24.974 mg/L

Data File : C:\GC20\DATA\04211620\042111.D Vial: 9
 Acq On : 21 Apr 2016 11:23 pm Operator: CM
 Sample : ALI ICB Inst : GC #20
 Misc : ICB O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:44 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:37:52 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042112.D Vial: 10
 Acq On : 22 Apr 2016 12:11 am Operator: CM
 Sample : ALI ICV Inst : GC #20
 Misc : ICV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:43 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:37:52 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

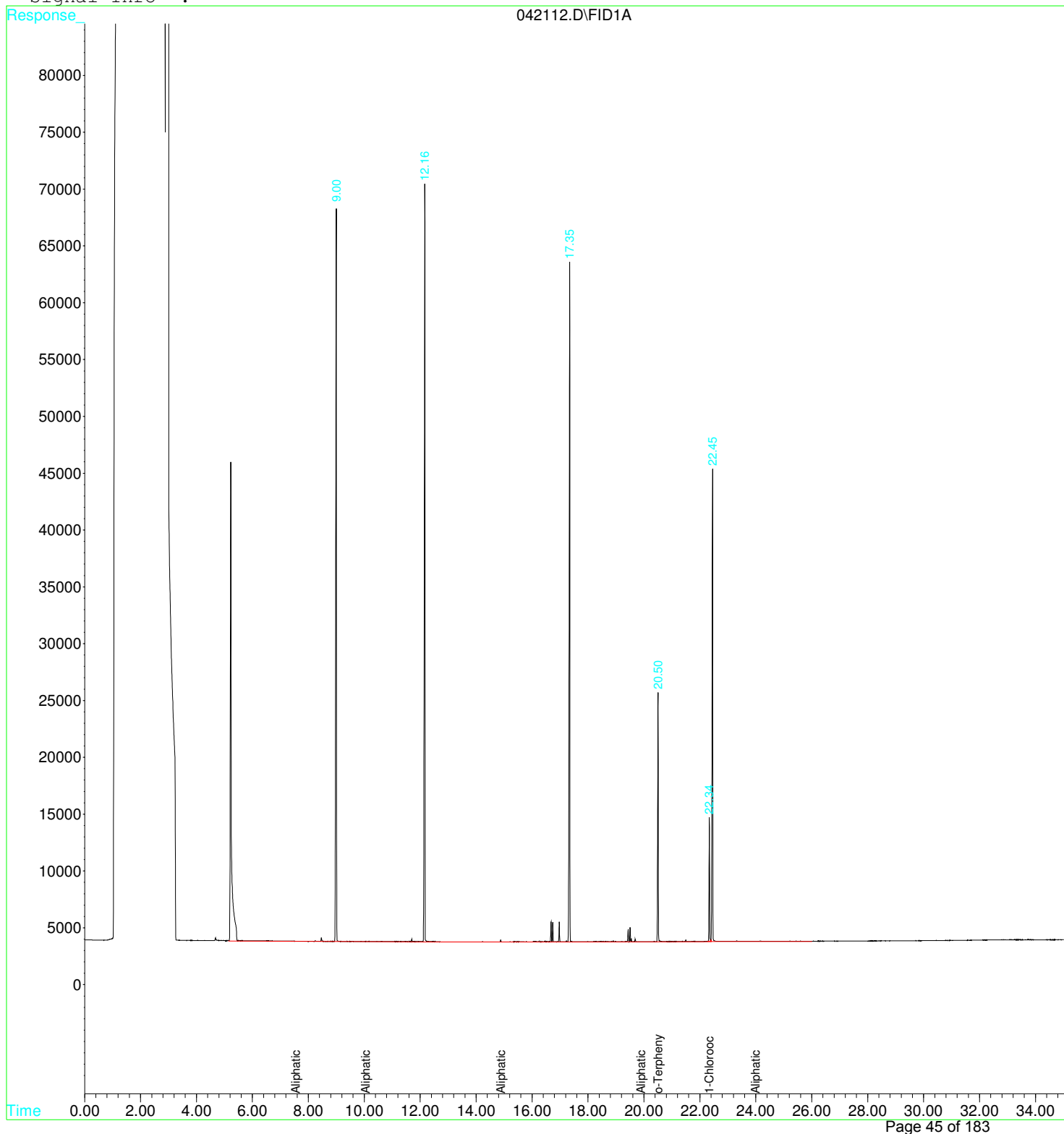
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34	152977	37.912 mg/L
2) S o-Terphenyl	20.50	328221	41.298 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	2215895	185.532 mg/L
4) H Aliphatic (C10-C12)	10.05	1189481	93.674 mg/L
5) H Aliphatic (C12-C16)	14.90	1179202	91.135 mg/L
6) H Aliphatic (C16-C21)	19.90	107060	114.869 mg/L
7) H Aliphatic (C21-C34)	24.00	734211	85.499 mg/L

Data File : C:\GC20\DATA\04211620\042112.D Vial: 10
 Acq On : 22 Apr 2016 12:11 am Operator: CM
 Sample : ALI ICV Inst : GC #20
 Misc : ICV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 13:43 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:37:52 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :





Calibration

Method : C:\GC20\METHODS\QUANT METHODS\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 14:29:26 2016
Response via : Initial Calibration

Calibration Files

1 =042113 2 =042114 3 =042115 4 =042116 5 =042117
6 =042118 7 =042119 8 =042120

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	1-Chlorooctadecane	Quad	-1.3532 e5	6.7825 e3	0.6641	0.994
2) S	o-Terphenyl	Lin	-2.2663 e4	9.5622 e3	-----	0.994
3) H	Aromatic (C8-C10)	Lin	5.2855 e4	1.1598 e4	-----	0.999
4) H	Aromatic (C10-C12)	Avg	-----	1.2955 e4	-----	0.060
5) H	Aromatic (C12-C16)	Avg	-----	1.1867 e4	-----	0.087
6) H	Aromatic (C16-C21)	Quad	4.5339 e4	2.7361 e3	4.2460	0.999
7) H	Aromatic (C21-C34)	Quad	1.0054 e5	1.0435 e3	-0.3785	0.993

ARG20421.M

Tue May 10 14:26:37 2016

Method : C:\GC20\METHODS\QUANT METHODS\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016

Calibration Files

1 =042113.D 2 =042114.D 3 =042115.D
 4 =042116.D 5 =042117.D 6 =042118.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	S 1-Chlorooctadecane	1.127	1.272	1.878	2.517	3.791	5.029	3.755	E3	66.56
2)	S o-Terphenyl	0.697	0.696	0.744	0.767	0.828	0.862	0.823	E4	15.11
3)	H Aromatic (C8-C10)	1.624	1.529	1.265	1.215	1.173	1.112	1.302	E4	14.98
4)	H Aromatic (C10-C12)	1.319	1.384	1.259	1.270	1.242	1.191	1.296	E4	5.96
5)	H Aromatic (C12-C16)	1.310	1.224	1.206	1.197	1.214	1.185	1.187	E4	8.73
6)	H Aromatic (C16-C21)	7.591	4.844	3.663	3.599	4.092	4.821	5.094	E3	31.53
7)	H Aromatic (C21-C34)	8.072	5.685	3.183	2.330	1.544	1.014	3.228	E3	83.96

(#) = Out of Range ### Number of calibration levels exceeded format ###

ARG20421.M

Tue May 10 14:27:46 2016

Data File : C:\GC20\DATA\04211620\042113.D Vial: 11
 Acq On : 22 Apr 2016 12:57 am Operator: CM
 Sample : ARO CAL10 Inst : GC #20
 Misc : ICV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:26 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

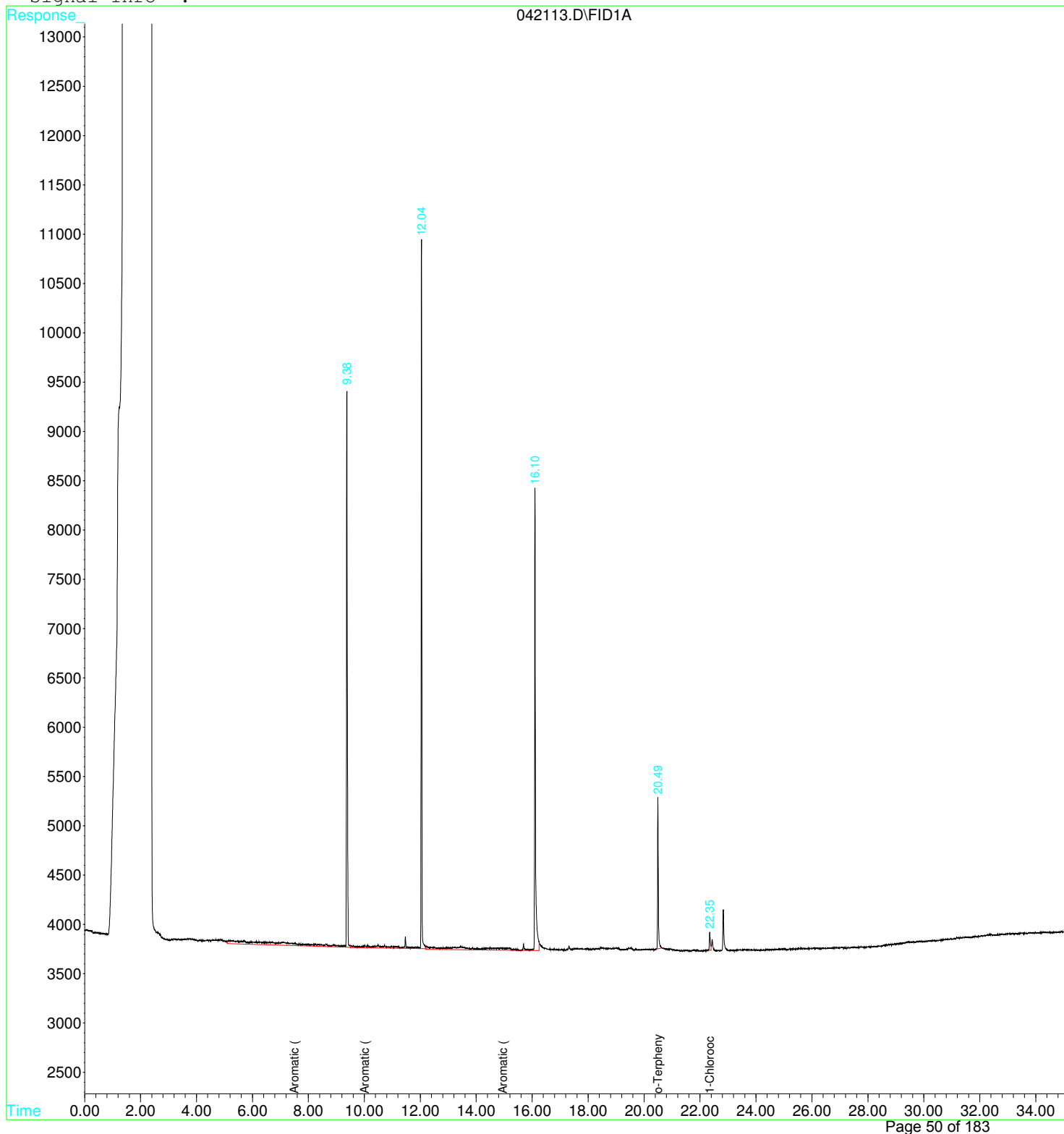
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.35f	4508	1.437 mg/L m
2) S o-Terphenyl	20.49	27893	4.016 mg/L m
Target Compounds			
3) H Aromatic (C8-C10)	7.50	162356	34.960 mg/L
4) H Aromatic (C10-C12)	10.00	131872	44.545 mg/L
5) H Aromatic (C12-C16)	14.96	130995	41.790 mg/L
6) H Aromatic (C16-C21)	20.00	75912	N.D. mg/L
7) H Aromatic (C21-C34)	31.17	80717	N.D. mg/L

Data File : C:\GC20\DATA\04211620\042113.D Vial: 11
Acq On : 22 Apr 2016 12:57 am Operator: CM
Sample : ARO CAL10 Inst : GC #20
Misc : ICV O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 25 14:26 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 13:57:24 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04211620\042114.D Vial: 12
 Acq On : 22 Apr 2016 1:44 am Operator: CM
 Sample : ARO CAL20 Inst : GC #20
 Misc : ICAL 1 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:27 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

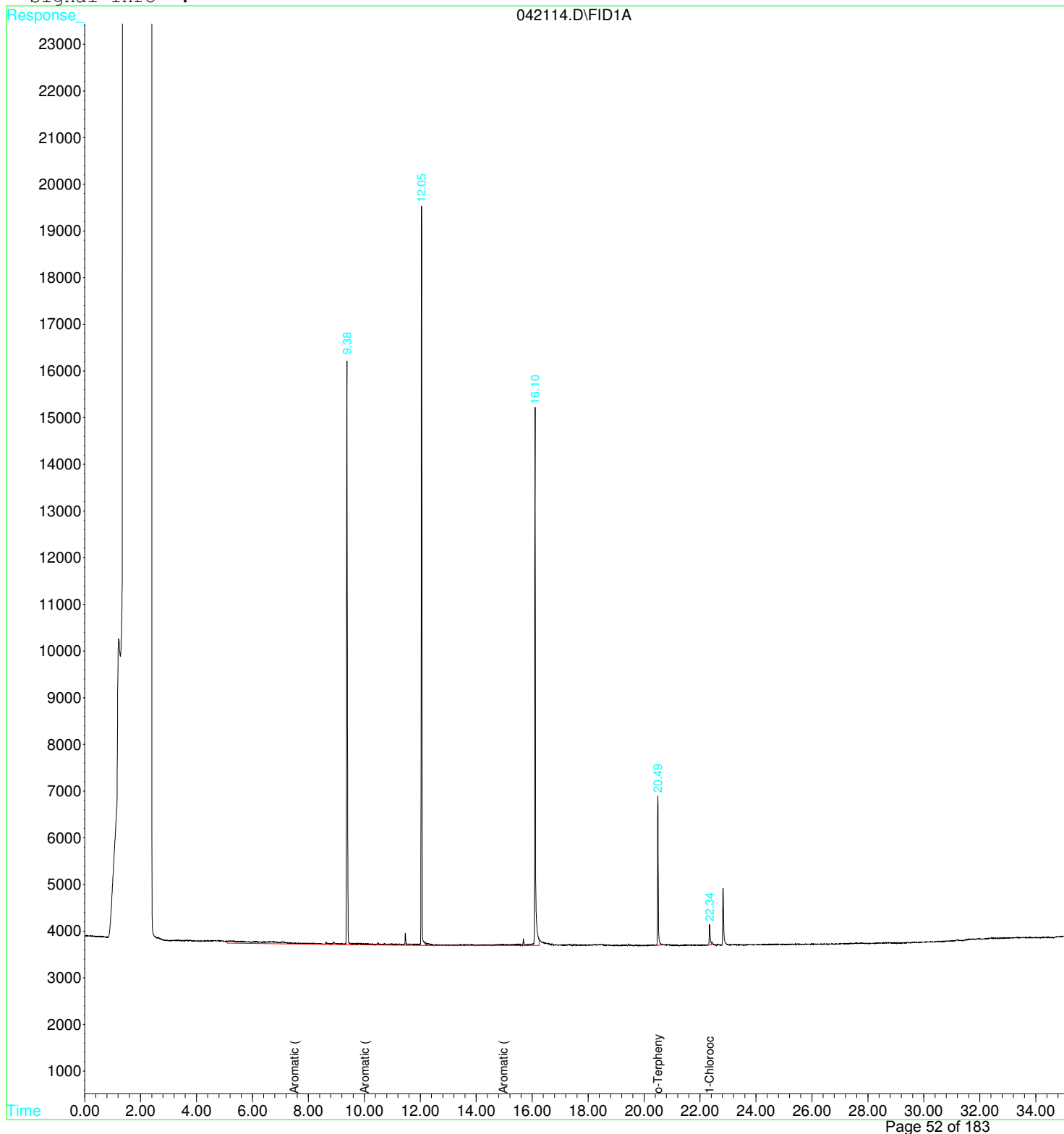
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34f	10174	3.244 mg/L m
2) S o-Terphenyl	20.49	55674	8.015 mg/L m
Target Compounds			
3) H Aromatic (C8-C10)	7.50	305832	92.320 mg/L
4) H Aromatic (C10-C12)	10.00	276864	99.010 mg/L
5) H Aromatic (C12-C16)	14.96	244877	84.886 mg/L
6) H Aromatic (C16-C21)	20.00	96871	N.D. mg/L
7) H Aromatic (C21-C34)	31.17	113704	N.D. mg/L

Data File : C:\GC20\DATA\04211620\042114.D Vial: 12
 Acq On : 22 Apr 2016 1:44 am Operator: CM
 Sample : ARO CAL20 Inst : GC #20
 Misc : ICAL 1 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:27 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042115.D Vial: 13
 Acq On : 22 Apr 2016 2:31 am Operator: CM
 Sample : ARO CAL50 Inst : GC #20
 Misc : ICAL 2 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:27 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

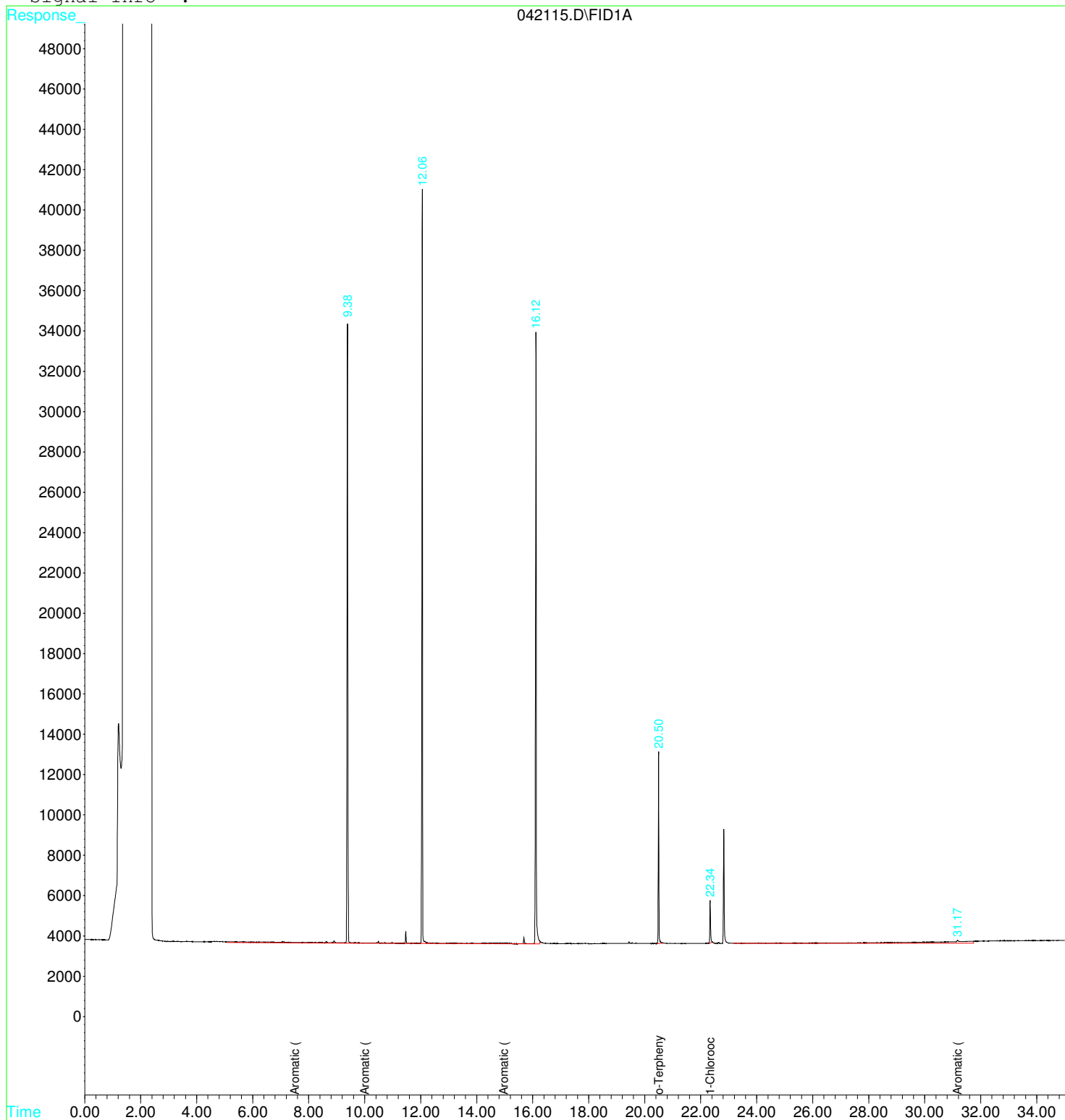
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34f	37551	11.971 mg/L
2) S o-Terphenyl	20.50	148736	21.413 mg/L m
Target Compounds			
3) H Aromatic (C8-C10)	7.50	632307	222.839 mg/L
4) H Aromatic (C10-C12)	10.00	629709	231.555 mg/L
5) H Aromatic (C12-C16)	14.96	602773	220.325 mg/L
6) H Aromatic (C16-C21)	20.00	183152	N.D. mg/L
7) H Aromatic (C21-C34)	31.17	159159	300.233 mg/L

Data File : C:\GC20\DATA\04211620\042115.D Vial: 13
Acq On : 22 Apr 2016 2:31 am Operator: CM
Sample : ARO CAL50 Inst : GC #20
Misc : ICAL 2 O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 25 14:27 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 13:57:24 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04211620\042116.D Vial: 14
 Acq On : 22 Apr 2016 3:17 am Operator: CM
 Sample : ARO CAL100 Inst : GC #20
 Misc : ICAL 3 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:28 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

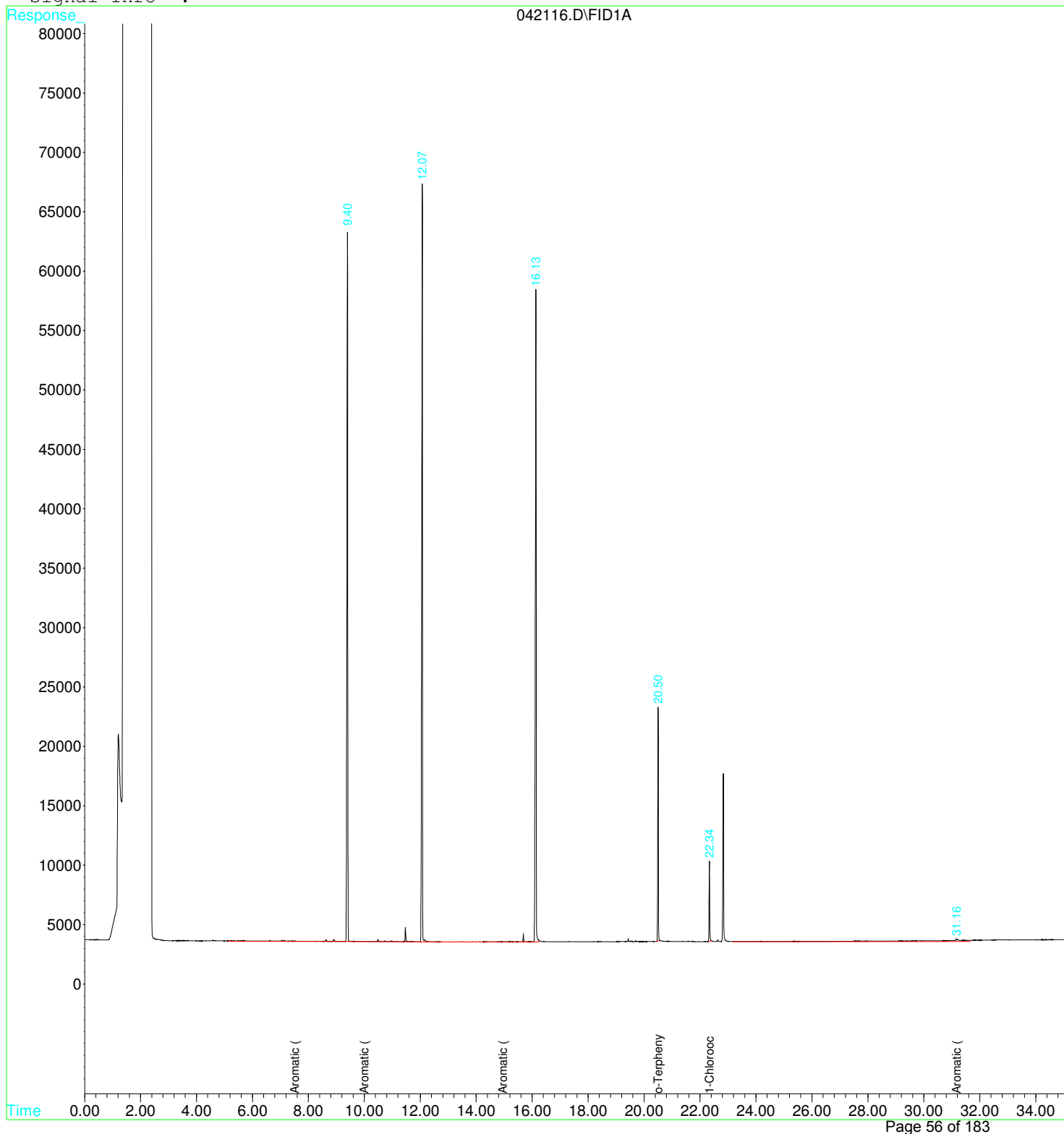
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34f	100664	32.092 mg/L
2) S o-Terphenyl	20.50	306867	44.179 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	1214701	455.672 mg/L
4) H Aromatic (C10-C12)	10.00	1270437	472.241 mg/L
5) H Aromatic (C12-C16)	14.96	1196791	445.121 mg/L
6) H Aromatic (C16-C21)	20.00	359937	N.D. mg/L
7) H Aromatic (C21-C34)	31.17	233034	924.546 mg/L

Data File : C:\GC20\DATA\04211620\042116.D Vial: 14
 Acq On : 22 Apr 2016 3:17 am Operator: CM
 Sample : ARO CAL100 Inst : GC #20
 Misc : ICAL 3 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:28 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042117.D Vial: 15
 Acq On : 22 Apr 2016 4:03 am Operator: CM
 Sample : ARO CAL200 Inst : GC #20
 Misc : ICAL 4 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:29 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

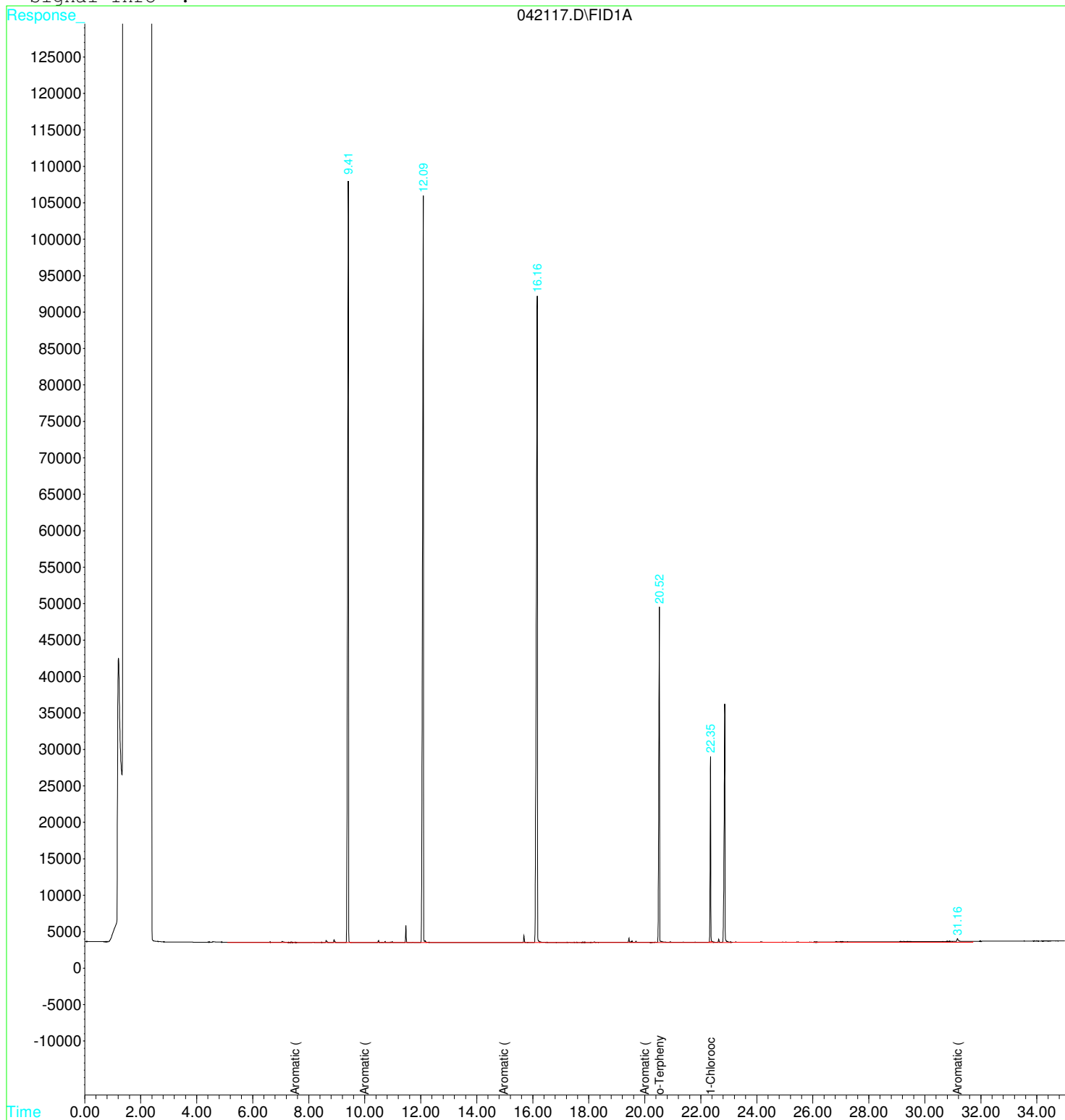
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.35f	379064	120.846 mg/L
2) S o-Terphenyl	20.52	828164	119.228 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	2345502	907.749 mg/L
4) H Aromatic (C10-C12)	10.00	2483919	928.080 mg/L
5) H Aromatic (C12-C16)	14.96	2427841	910.989 mg/L
6) H Aromatic (C16-C21)	20.00	818309	306.087 mg/L
7) H Aromatic (C21-C34)	31.17	308898	1565.672 mg/L

Data File : C:\GC20\DATA\04211620\042117.D Vial: 15
 Acq On : 22 Apr 2016 4:03 am Operator: CM
 Sample : ARO CAL200 Inst : GC #20
 Misc : ICAL 4 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:29 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042118.D Vial: 16
 Acq On : 22 Apr 2016 4:49 am Operator: CM
 Sample : ARO CAL500 Inst : GC #20
 Misc : ICAL 5 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:25 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

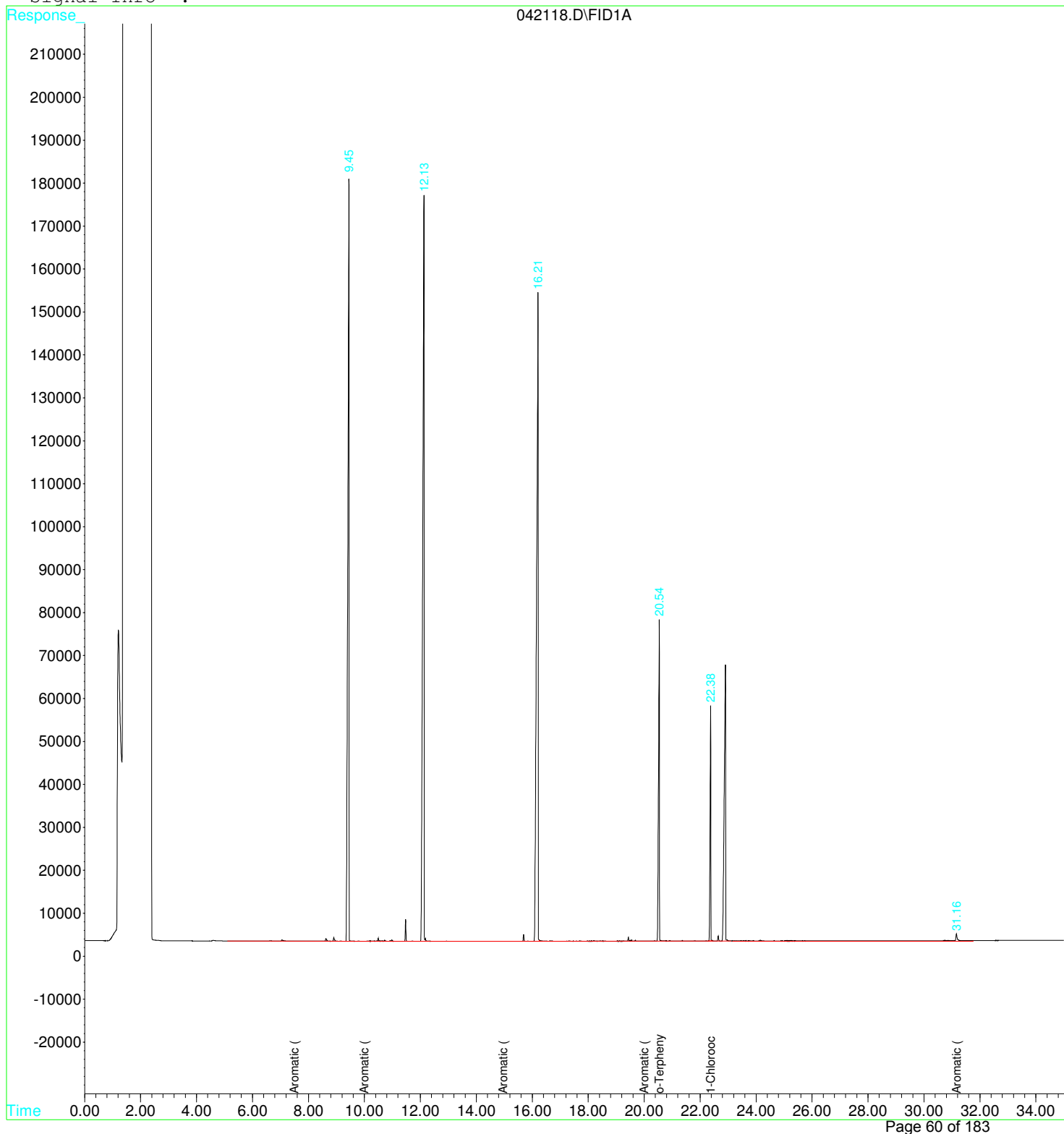
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.37	1005791	320.647 mg/L
2) S o-Terphenyl	20.54	1723345	248.105 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	5559229	2192.548 mg/L
4) H Aromatic (C10-C12)	10.00	5952964	2231.209 mg/L
5) H Aromatic (C12-C16)	14.96	5926566	2235.018 mg/L
6) H Aromatic (C16-C21)	20.00	2410331	1615.315 mg/L
7) H Aromatic (C21-C34)	31.17	507090	3240.590 mg/L

Data File : C:\GC20\DATA\04211620\042118.D Vial: 16
 Acq On : 22 Apr 2016 4:49 am Operator: CM
 Sample : ARO CAL500 Inst : GC #20
 Misc : ICAL 5 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:25 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042119.D Vial: 17
 Acq On : 22 Apr 2016 5:35 am Operator: CM
 Sample : ARO CAL1000 Inst : GC #20
 Misc : ICAL 6 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:25 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

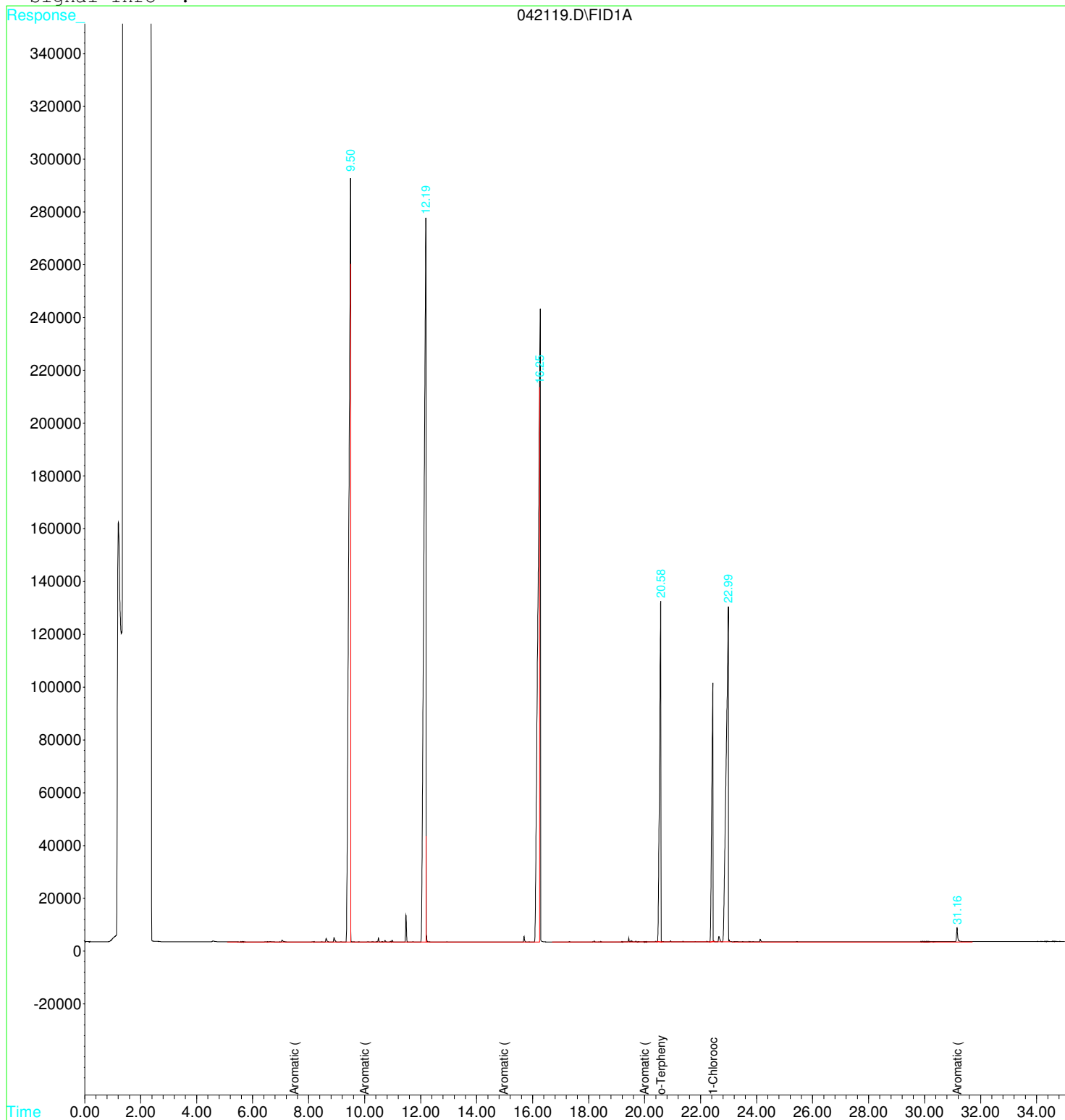
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.44f	2937420	936.453 mg/L m
2) S o-Terphenyl	20.58f	4187996	602.933 mg/L m
Target Compounds			
3) H Aromatic (C8-C10)	7.50	11953542	4748.898 mg/L
4) H Aromatic (C10-C12)	10.00	14030924	5265.654 mg/L
5) H Aromatic (C12-C16)	14.96	9707152	3665.712 mg/L
6) H Aromatic (C16-C21)	20.00	7049127	5430.112 mg/L
7) H Aromatic (C21-C34)	31.17	769812	5460.857 mg/L

Data File : C:\GC20\DATA\04211620\042119.D Vial: 17
Acq On : 22 Apr 2016 5:35 am Operator: CM
Sample : ARO CAL1000 Inst : GC #20
Misc : ICAL 6 O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 25 14:25 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 13:57:24 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04211620\042120.D Vial: 18
 Acq On : 22 Apr 2016 6:21 am Operator: CM
 Sample : ARO CAL2000 Inst : GC #20
 Misc : ICAL 7 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:04 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

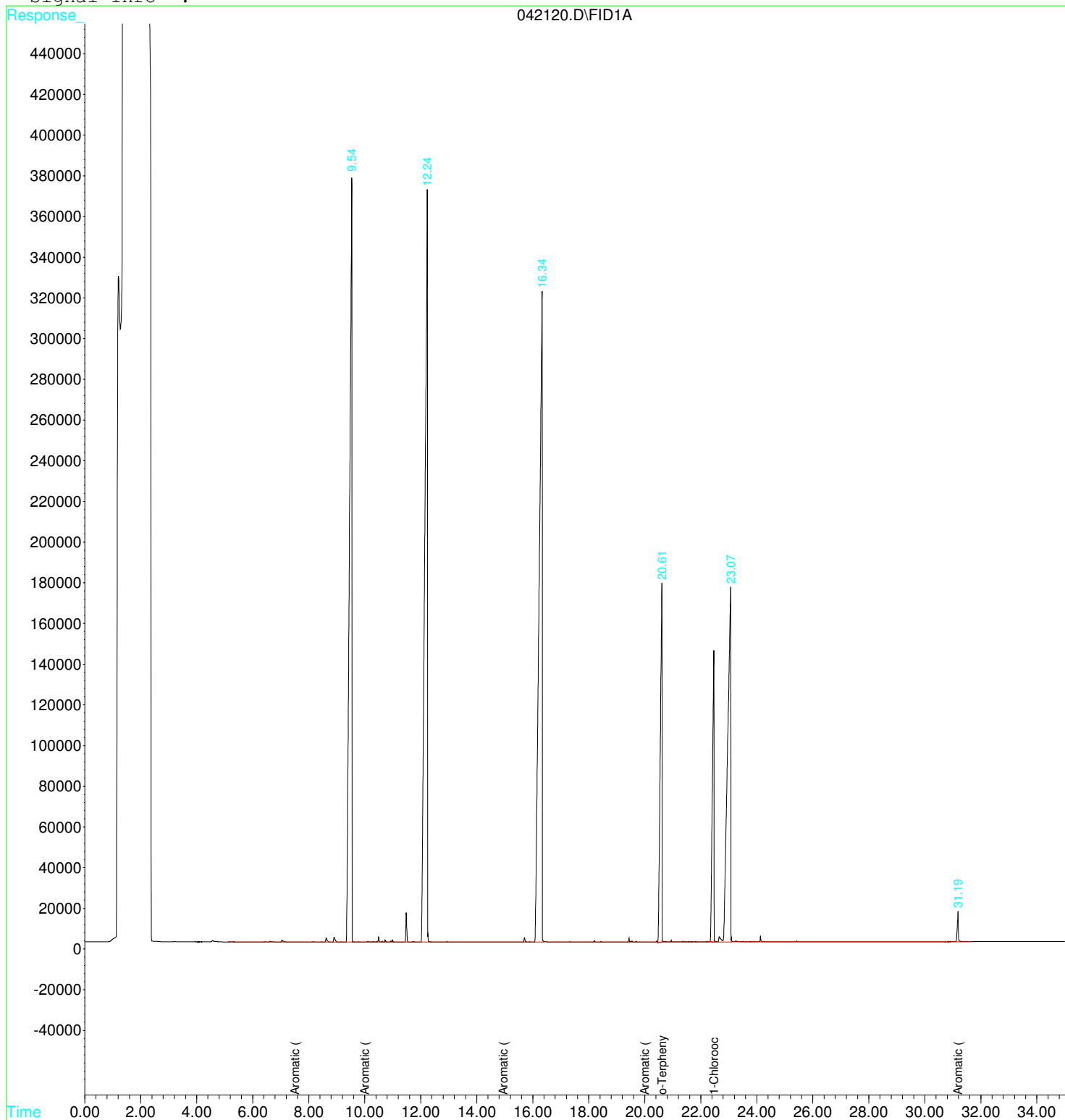
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.47f	5670132	1807.645 mg/L m
2) S o-Terphenyl	20.61f	7571730	1090.079 mg/L m
Target Compounds			
3) H Aromatic (C8-C10)	7.50	21829658	8697.219 mg/L
4) H Aromatic (C10-C12)	10.00	23812627	8940.101 mg/L
5) H Aromatic (C12-C16)	14.96	24533889	9276.620 mg/L
6) H Aromatic (C16-C21)	20.00	27497311	22246.044 mg/L
7) H Aromatic (C21-C34)	31.17	637854	4345.678 mg/L

Data File : C:\GC20\DATA\04211620\042120.D Vial: 18
 Acq On : 22 Apr 2016 6:21 am Operator: CM
 Sample : ARO CAL2000 Inst : GC #20
 Misc : ICAL 7 O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:04 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 13:57:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042121.D Vial: 19
 Acq On : 22 Apr 2016 7:06 am Operator: CM
 Sample : ARO ICB Inst : GC #20
 Misc : ICB O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:33 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

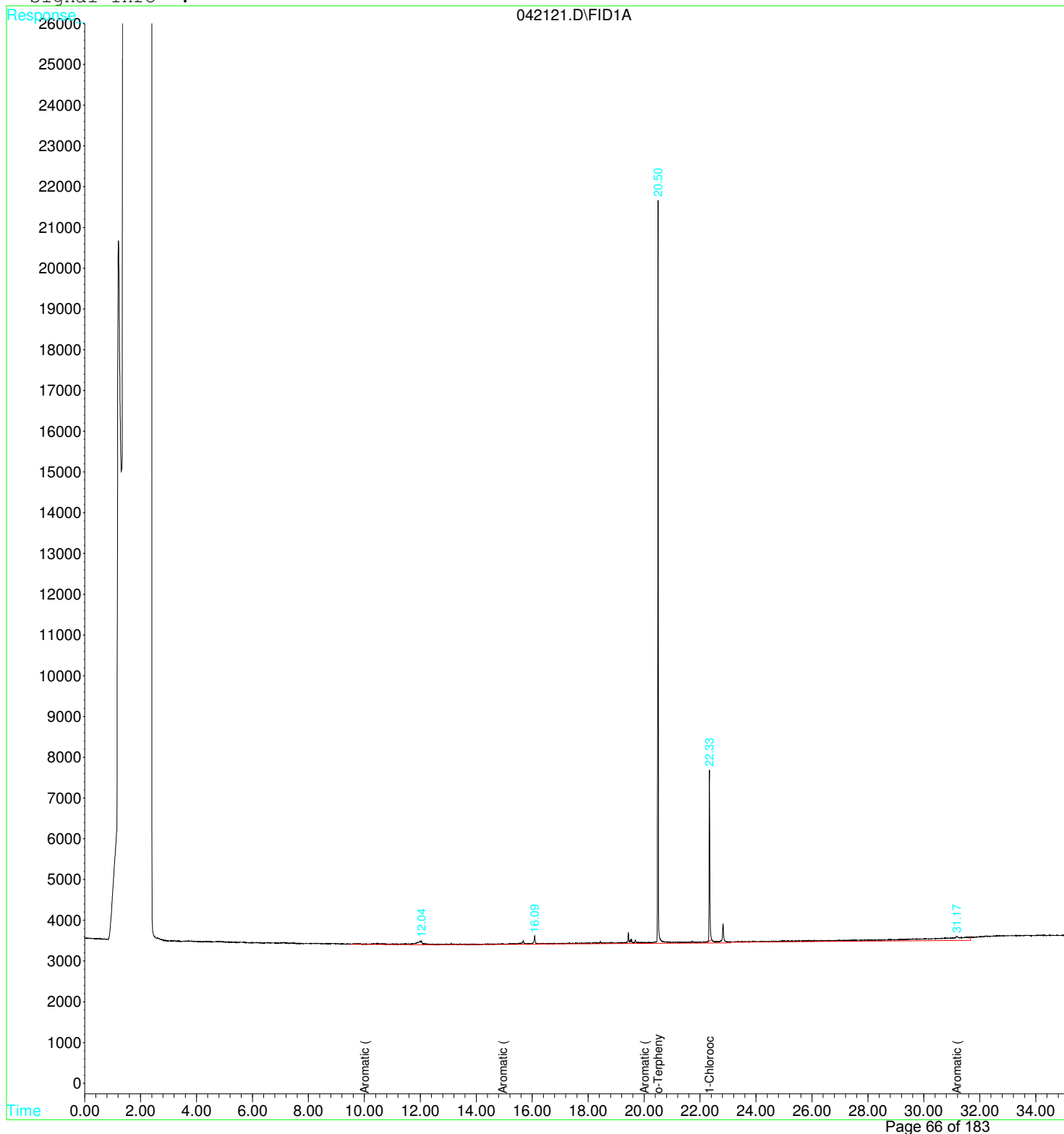
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34f	72215	30.508 mg/L
2) S o-Terphenyl	20.50	270373	30.645 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	37892	N.D. mg/L
4) H Aromatic (C10-C12)	10.00	27937	2.156 mg/L
5) H Aromatic (C12-C16)	14.96	33573	2.829 mg/L
6) H Aromatic (C16-C21)	20.00	105699	21.354 mg/L
7) H Aromatic (C21-C34)	31.17	142790	41.106 mg/L

Data File : C:\GC20\DATA\04211620\042121.D Vial: 19
 Acq On : 22 Apr 2016 7:06 am Operator: CM
 Sample : ARO ICB Inst : GC #20
 Misc : ICB O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:33 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04211620\042122.D Vial: 20
 Acq On : 22 Apr 2016 7:52 am Operator: CM
 Sample : ARO ICV Inst : GC #20
 Misc : ICV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 25 14:35 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

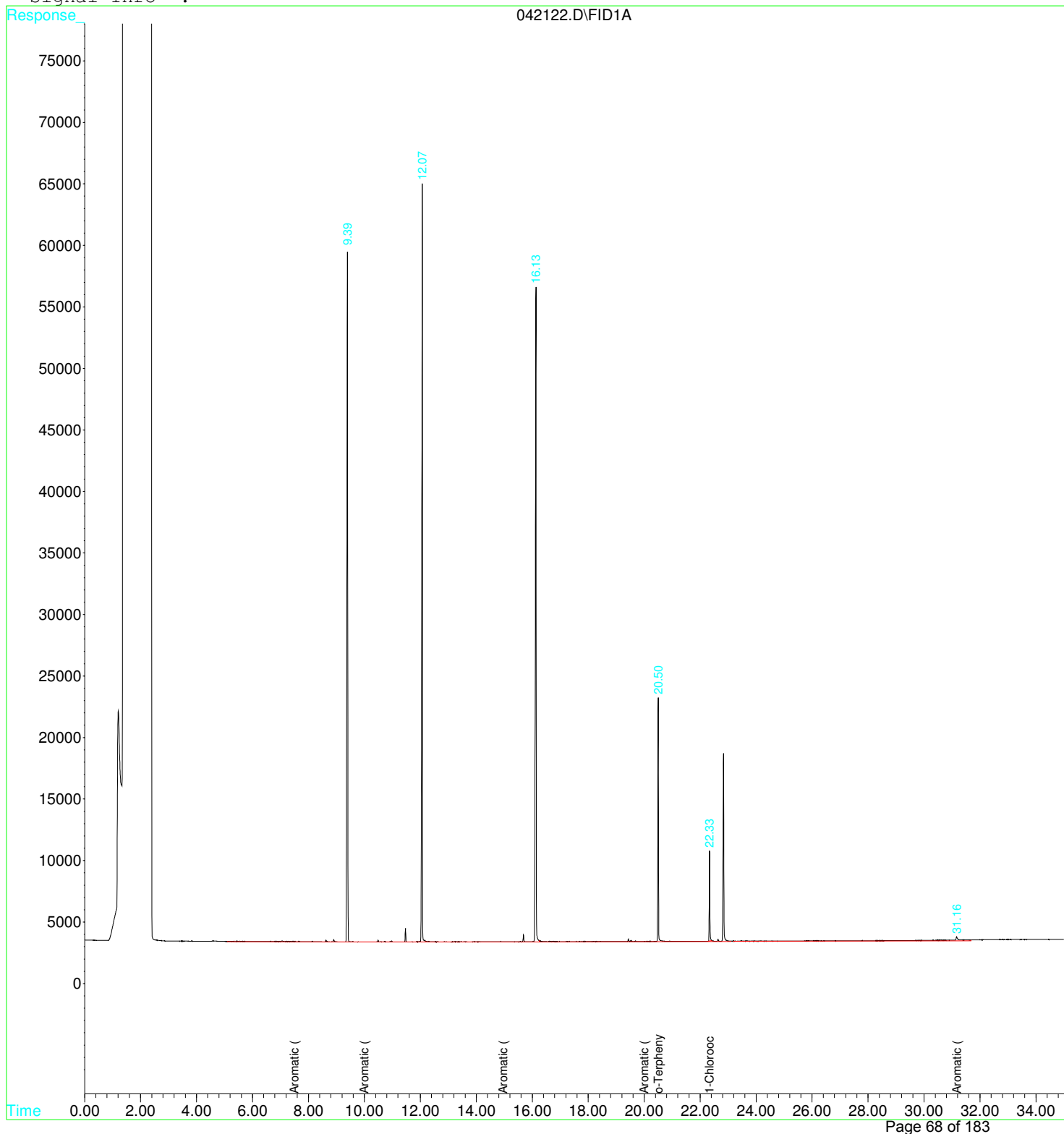
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34f	115550	36.856 mg/L
2) S o-Terphenyl	20.50	309098	34.695 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	1147730	94.405 mg/L
4) H Aromatic (C10-C12)	10.00	1193498	92.126 mg/L
5) H Aromatic (C12-C16)	14.96	1157419	97.536 mg/L
6) H Aromatic (C16-C21)	20.00	401308	110.987 mg/L
7) H Aromatic (C21-C34)	31.17	184263	82.718 mg/L

Data File : C:\GC20\DATA\04211620\042122.D Vial: 20
Acq On : 22 Apr 2016 7:52 am Operator: CM
Sample : ARO ICV Inst : GC #20
Misc : ICV O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 25 14:35 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 14:29:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Buchi Solvent Exchange
On: 10:16 Off: 11:32

Buchi Solvent Exchange
On: 15:22 Off: 17:23

EPH SVK # 16010 250ml
ARD SPIKE # 17985 250ml
RLI SPIKE # 17989 250ml

Fremont Analytical, Inc.

4/11/2016
Spike witness signature
04/11/16

Prep Start Date: 4/6/2016 8:56:10 A
Prep End Date:

Prep Batch ID: 13403 Prep Code: PREP-EPH-S Method No: SW3550C Technician: Clark Gilbert
Initial Temp: °C Final Temp: °C

Omega Pan # 28989

PREP BATCH REPORT

Prep Factor Units: mL/g

Signature
Residue 2 04/11/16

4/11/16
FW 1090

Sample ID	Client Sample ID	Matrix	pH1	pH2	Samp Amt	Sol Added	Sol Recov	Fin Vol	factor	Prep Start	Prep End
MB-13403		Soil			10	0	0	1	0.100	4/6/2016	
LCS-13403		Soil			10	0	0	1	0.100	4/6/2016	
1604014-001A	NSW3,231	Soil	11.28		10	0	0	1	0.100	4/6/2016	
1604015-001A	WSW2-11	Soil	11.14		10	0	0	1	0.100	4/6/2016	
1604015-001AMS		Soil	10.17		10	0	0	1	0.100	4/6/2016	
1604015-001AMSD		Soil	11.43		10	0	0	1	0.100	4/6/2016	
1604015-002A	B1-18	Soil	10.63		10	0	0	1	0.100	4/6/2016	
1604015-002ADUP		Soil	10.94		10	0	0	1	0.100	4/6/2016	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
Equipment ID	Description					

1604049-001A 11.12
 1604050-001A 11.12
 1604078-002A 11.34
 1604078-004A 11.10
 1604079-002A 10.30
 1604080-002A 10.46
 1604080-004A 21.01
 1604080-002A 10.46
 1604081-004A 11.29
 1604081-004A DUP 11.34

wet sand; get rid of odor

High Moisture adjusted

Balance #2
4-11-16



Raw Data

Data File : C:\GC20\DATA\04221620\042201.D Vial: 4
 Acq On : 22 Apr 2016 2:51 pm Operator: CM
 Sample : ALI CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:27 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

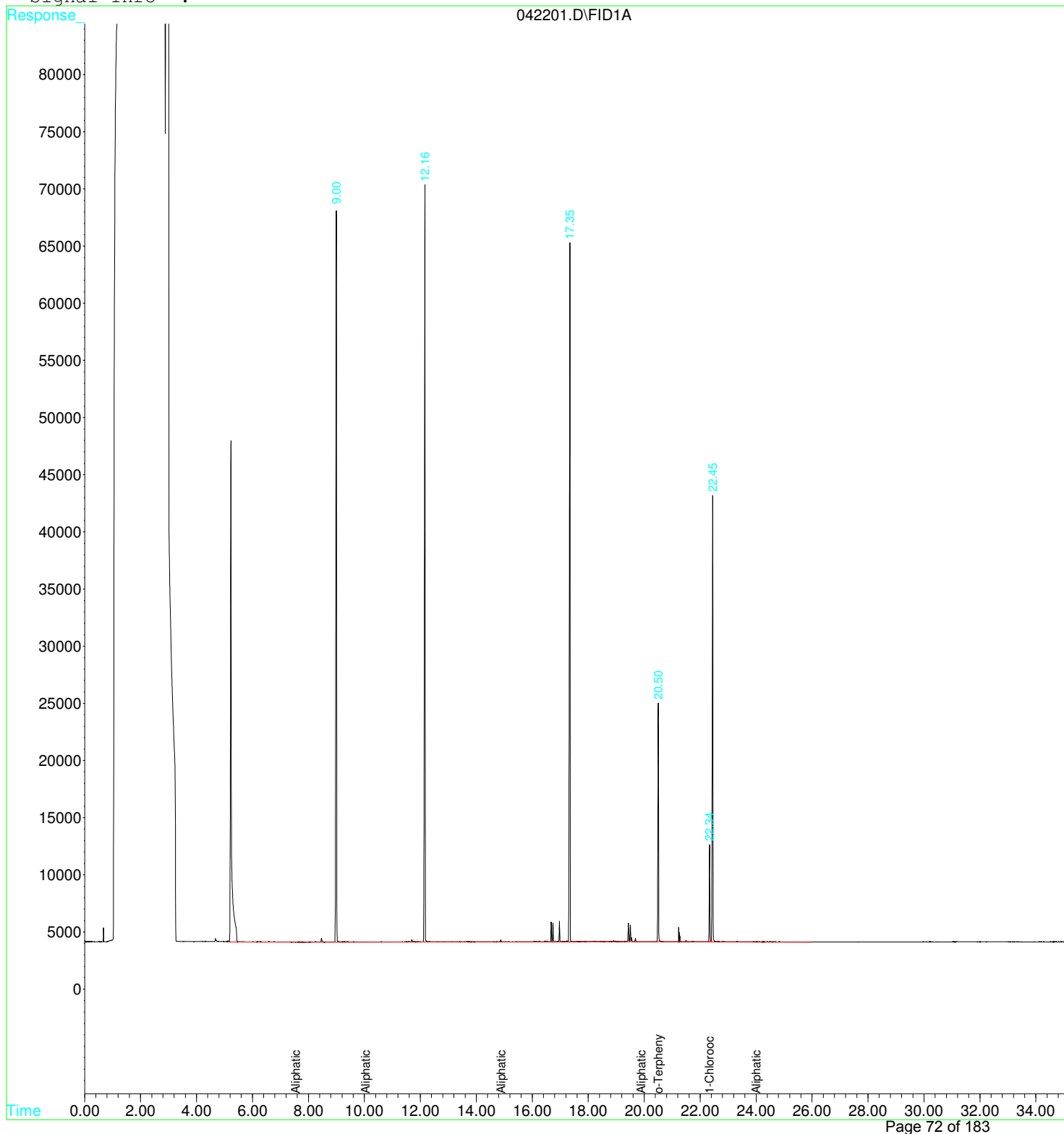
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.34	124615	36.602 mg/L
2) S o-Terphenyl	20.50	314848	39.616 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	2202086	201.816 mg/L
4) H Aliphatic (C10-C12)	10.05	1172828	100.892 mg/L
5) H Aliphatic (C12-C16)	14.90	1198235	100.396 mg/L
6) H Aliphatic (C16-C21)	19.90	102479	106.832 mg/L
7) H Aliphatic (C21-C34)	24.00	686309	95.984 mg/L

Data File : C:\GC20\DATA\04221620\042201.D Vial: 4
 Acq On : 22 Apr 2016 2:51 pm Operator: CM
 Sample : ALI CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:27 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042208.D Vial: 26
 Acq On : 22 Apr 2016 8:20 pm Operator: CM
 Sample : MB-13403 Inst : GC #20
 Misc : MBLK O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:31 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

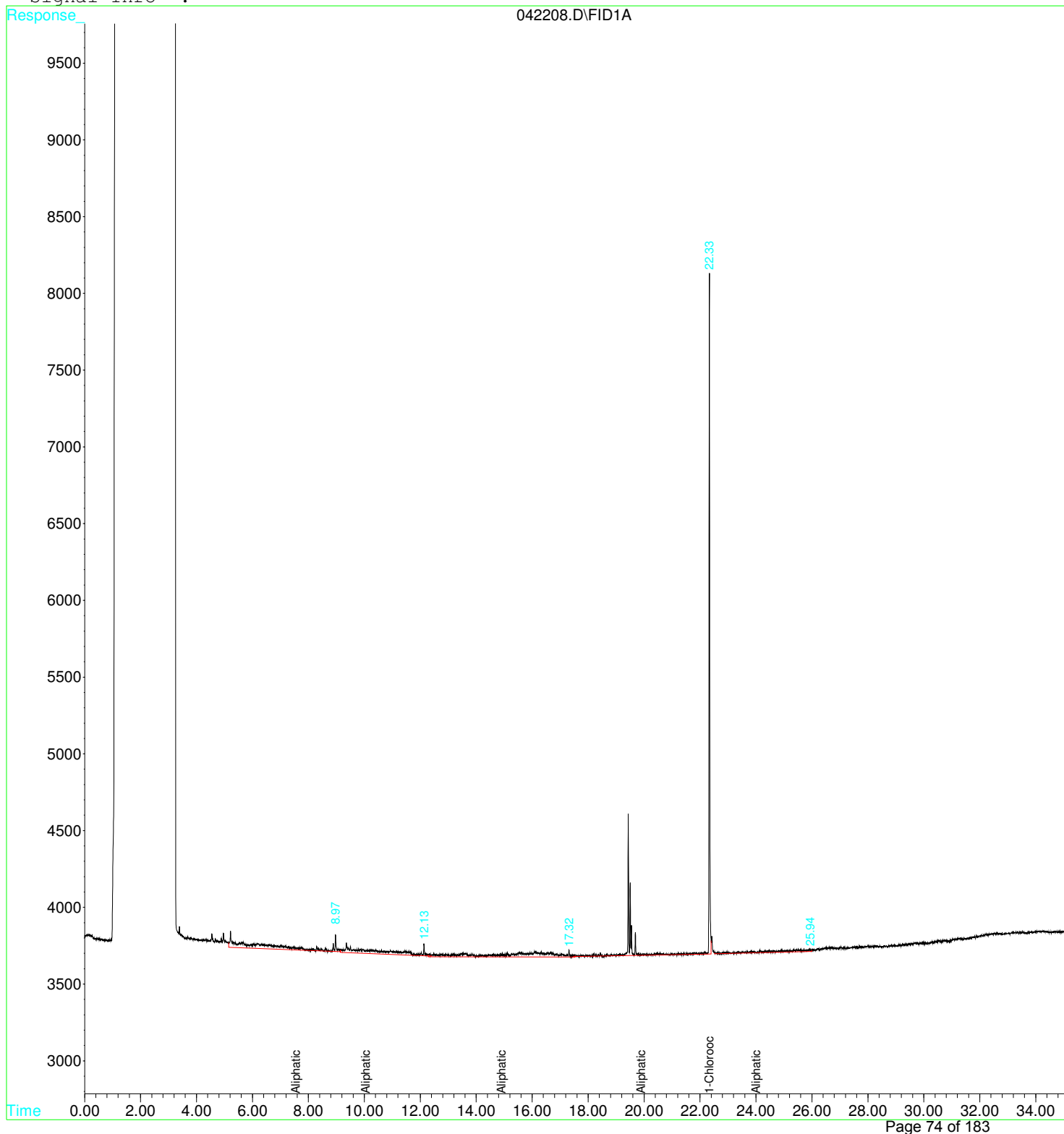
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33	77887	24.483 mg/L m
2) S o-Terphenyl	0.00	0	N.D. mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	41940	3.844 mg/L
4) H Aliphatic (C10-C12)	10.05	32272	2.776 mg/L
5) H Aliphatic (C12-C16)	14.90	44680	3.744 mg/L
6) H Aliphatic (C16-C21)	19.90	38266	1.346 mg/L
7) H Aliphatic (C21-C34)	24.00	12489	1.747 mg/L

Data File : C:\GC20\DATA\04221620\042208.D Vial: 26
 Acq On : 22 Apr 2016 8:20 pm Operator: CM
 Sample : MB-13403 Inst : GC #20
 Misc : MBLK O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:31 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042205.D Vial: 23
 Acq On : 22 Apr 2016 6:01 pm Operator: CM
 Sample : LCS-13403 Inst : GC #20
 Misc : LCS O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:35 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

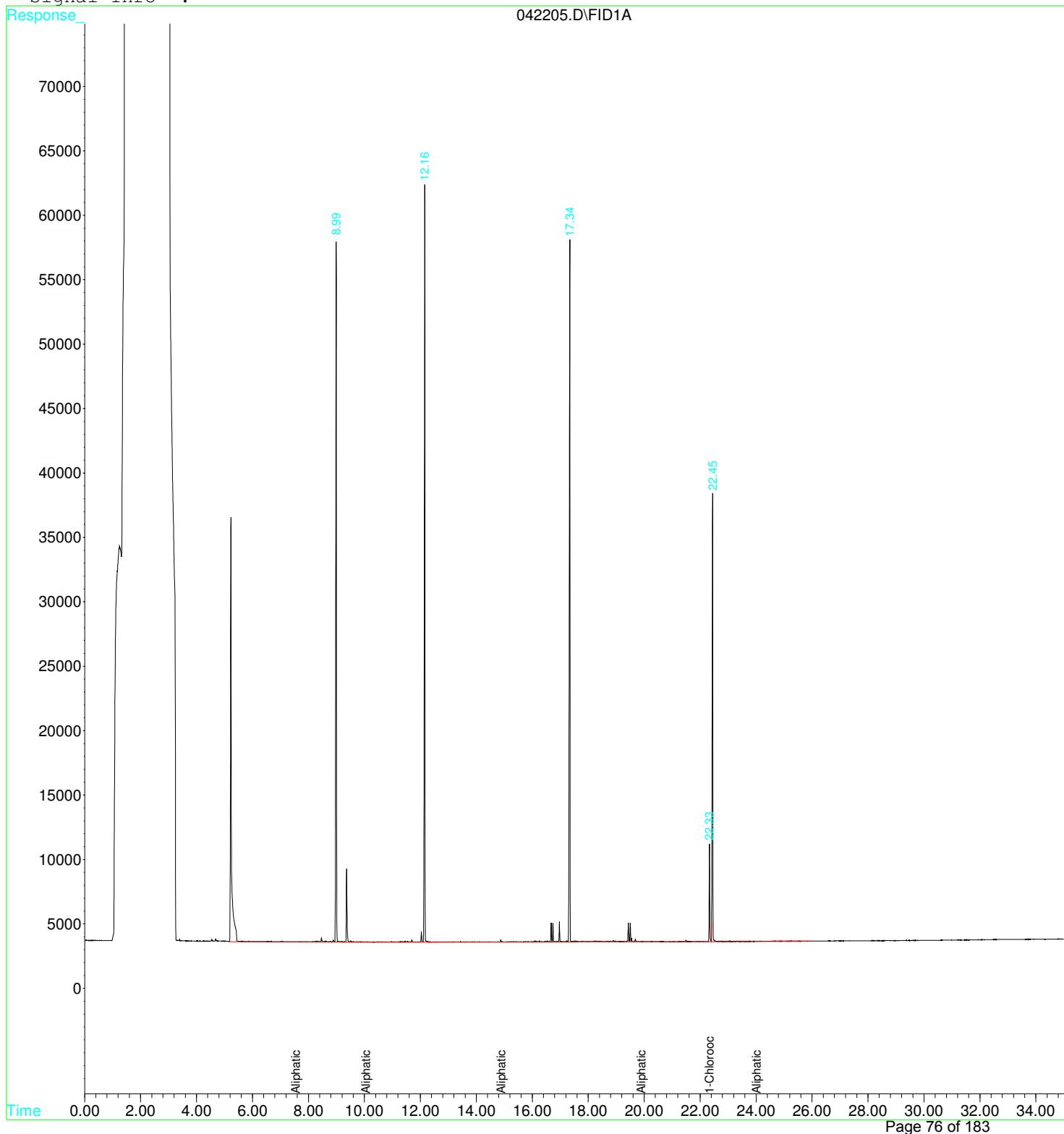
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33	110080	32.910 mg/L
2) S o-Terphenyl	0.00	0	N.D. mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	1699794	155.782 mg/L
4) H Aliphatic (C10-C12)	10.05	1080814	92.976 mg/L
5) H Aliphatic (C12-C16)	14.90	1037388	86.919 mg/L
6) H Aliphatic (C16-C21)	19.90	92437	89.476 mg/L
7) H Aliphatic (C21-C34)	24.00	617721	86.392 mg/L

Data File : C:\GC20\DATA\04221620\042205.D Vial: 23
Acq On : 22 Apr 2016 6:01 pm Operator: CM
Sample : LCS-13403 Inst : GC #20
Misc : LCS O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 26 16:35 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
Title :
Last Update : Tue Apr 26 15:38:24 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04221620\042212.D Vial: 30
 Acq On : 22 Apr 2016 11:22 pm Operator: CM
 Sample : 1604079-002A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:41 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

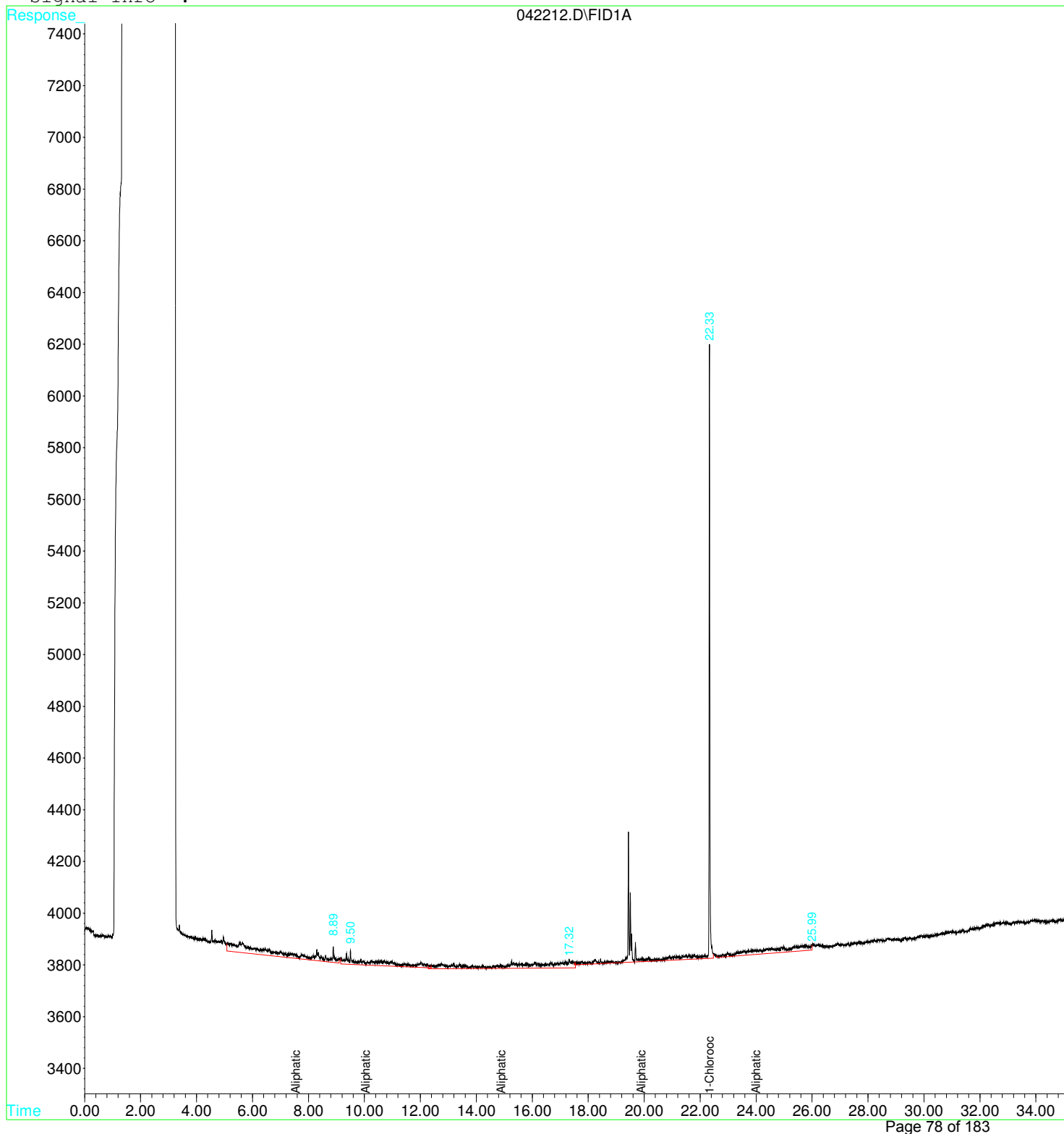
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33	42181	14.684 mg/L m
2) S o-Terphenyl	0.00	0	N.D. mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	41014	3.759 mg/L
4) H Aliphatic (C10-C12)	10.05	22290	1.917 mg/L
5) H Aliphatic (C12-C16)	14.90	37086	3.107 mg/L
6) H Aliphatic (C16-C21)	19.90	38003	0.938 mg/L
7) H Aliphatic (C21-C34)	24.00	25309	3.540 mg/L

Data File : C:\GC20\DATA\04221620\042212.D Vial: 30
 Acq On : 22 Apr 2016 11:22 pm Operator: CM
 Sample : 1604079-002A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:41 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042216.D Vial: 34
 Acq On : 23 Apr 2016 2:23 am Operator: CM
 Sample : 1604081-004A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:45 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

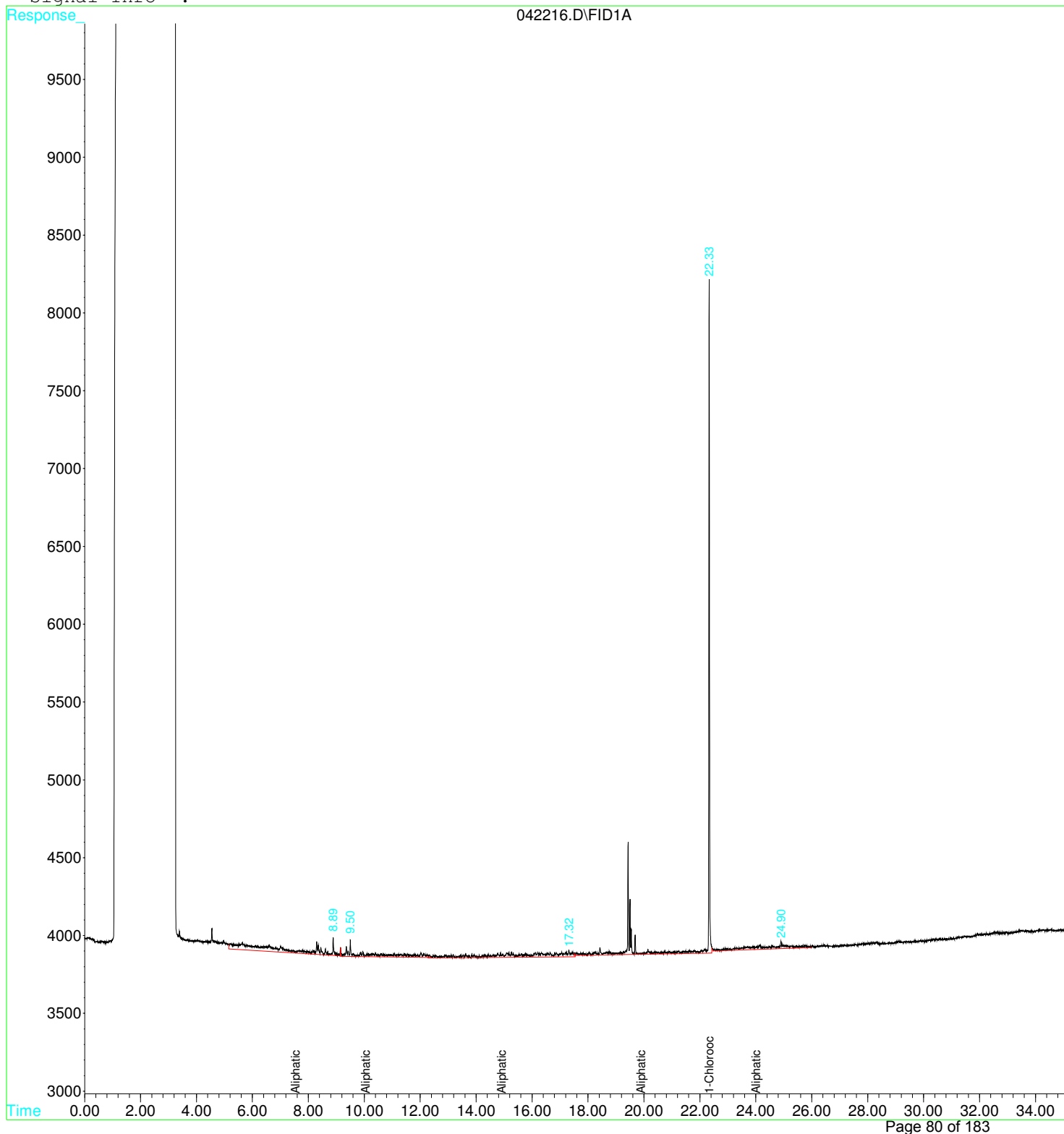
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33	70546	22.509 mg/L m
2) S o-Terphenyl	0.00	0	N.D. mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	50994	4.673 mg/L
4) H Aliphatic (C10-C12)	10.05	27106	2.332 mg/L
5) H Aliphatic (C12-C16)	14.90	42122	3.529 mg/L
6) H Aliphatic (C16-C21)	19.90	51065	21.409 mg/L
7) H Aliphatic (C21-C34)	24.00	23517	3.289 mg/L

Data File : C:\GC20\DATA\04221620\042216.D Vial: 34
 Acq On : 23 Apr 2016 2:23 am Operator: CM
 Sample : 1604081-004A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:45 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042217.D Vial: 35
 Acq On : 23 Apr 2016 3:08 am Operator: CM
 Sample : 1604081-004ADUP Inst : GC #20
 Misc : DUP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:46 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

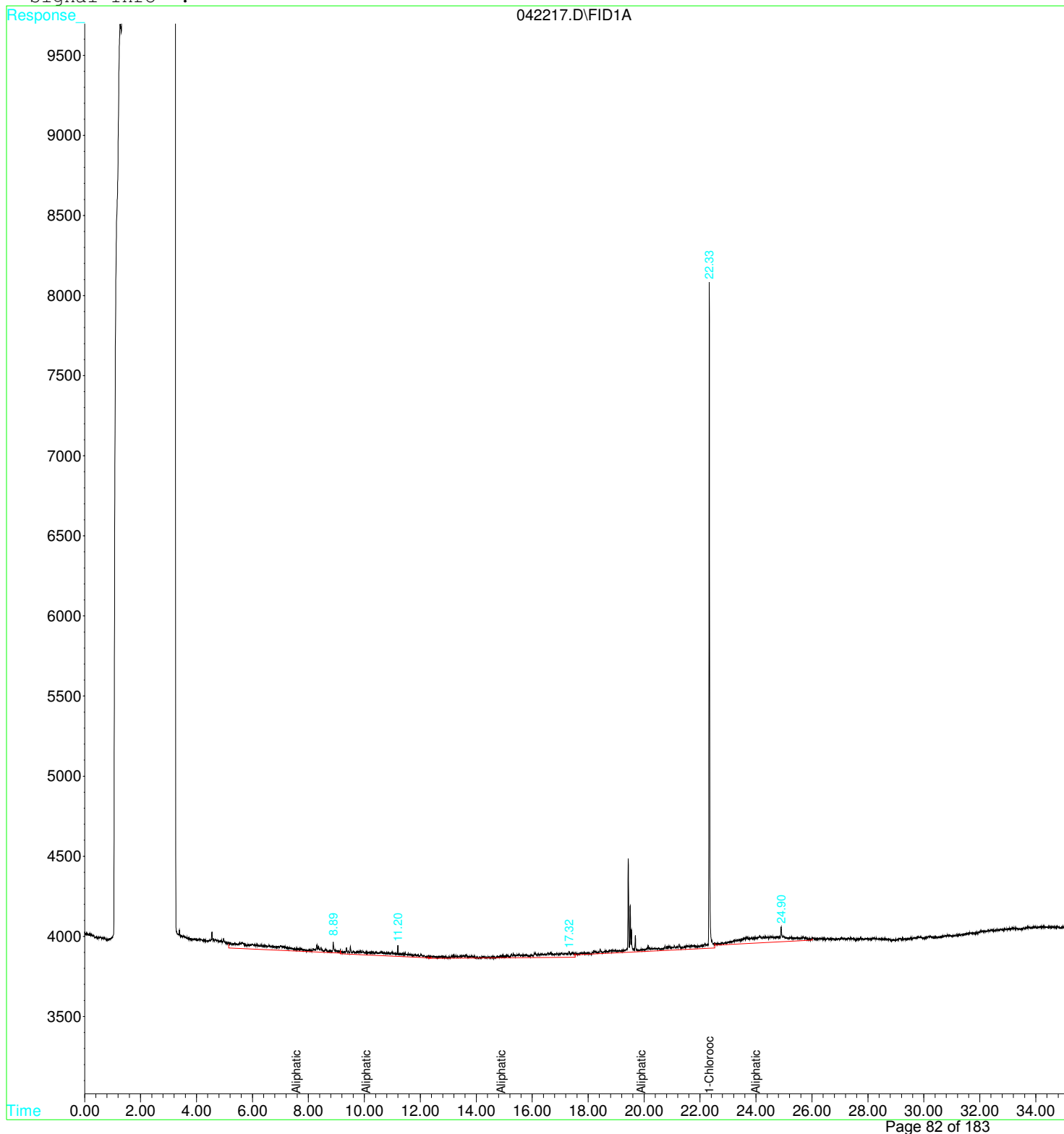
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33	66602	21.441 mg/L m
2) S o-Terphenyl	0.00	0	N.D. mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	45513	4.171 mg/L
4) H Aliphatic (C10-C12)	10.05	28258	2.431 mg/L
5) H Aliphatic (C12-C16)	14.90	39203	3.285 mg/L
6) H Aliphatic (C16-C21)	19.90	59540	34.938 mg/L
7) H Aliphatic (C21-C34)	24.00	47735	6.676 mg/L

Data File : C:\GC20\DATA\04221620\042217.D Vial: 35
 Acq On : 23 Apr 2016 3:08 am Operator: CM
 Sample : 1604081-004ADUP Inst : GC #20
 Misc : DUP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:46 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042218.D Vial: 4
 Acq On : 23 Apr 2016 3:53 am Operator: CM
 Sample : ALI CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:47 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

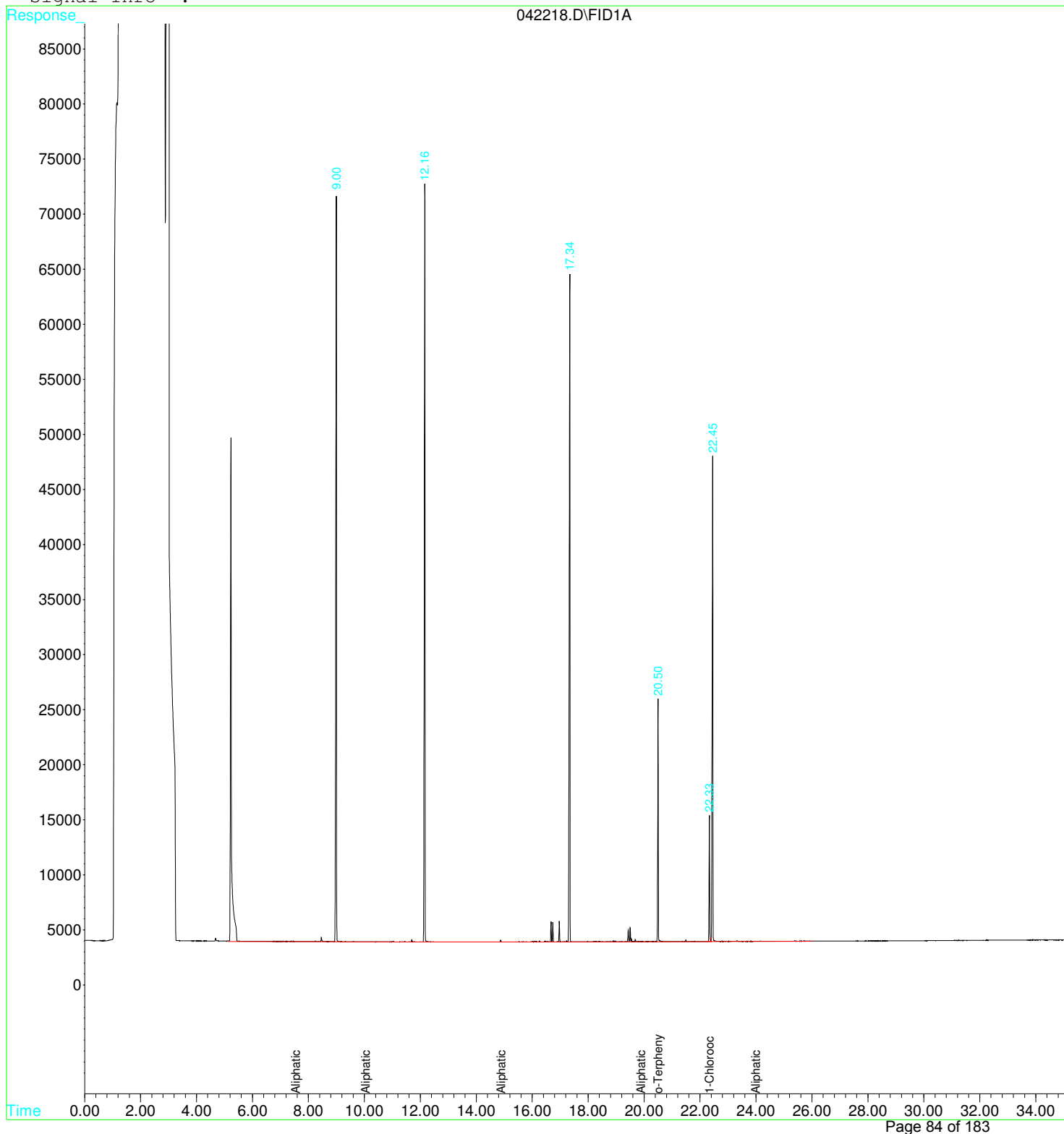
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33	167792	47.196 mg/L
2) S o-Terphenyl	20.50	341469	42.965 mg/L
Target Compounds			
3) H Aliphatic (C8-C10)	7.55	2289738	209.849 mg/L
4) H Aliphatic (C10-C12)	10.05	1216376	104.638 mg/L
5) H Aliphatic (C12-C16)	14.90	1226270	102.745 mg/L
6) H Aliphatic (C16-C21)	19.90	100830	103.956 mg/L
7) H Aliphatic (C21-C34)	24.00	816208	114.151 mg/L

Data File : C:\GC20\DATA\04221620\042218.D Vial: 4
 Acq On : 23 Apr 2016 3:53 am Operator: CM
 Sample : ALI CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:47 2016 Quant Results File: ALG20421.RES

Quant Method : C:\GC20\M...\ALG20421.M (Chemstation Integrator)
 Title :
 Last Update : Tue Apr 26 15:38:24 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :





Raw Data

Data File : C:\GC20\DATA\04221620\042219.D Vial: 14
 Acq On : 23 Apr 2016 4:38 am Operator: CM
 Sample : ARO CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:55 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

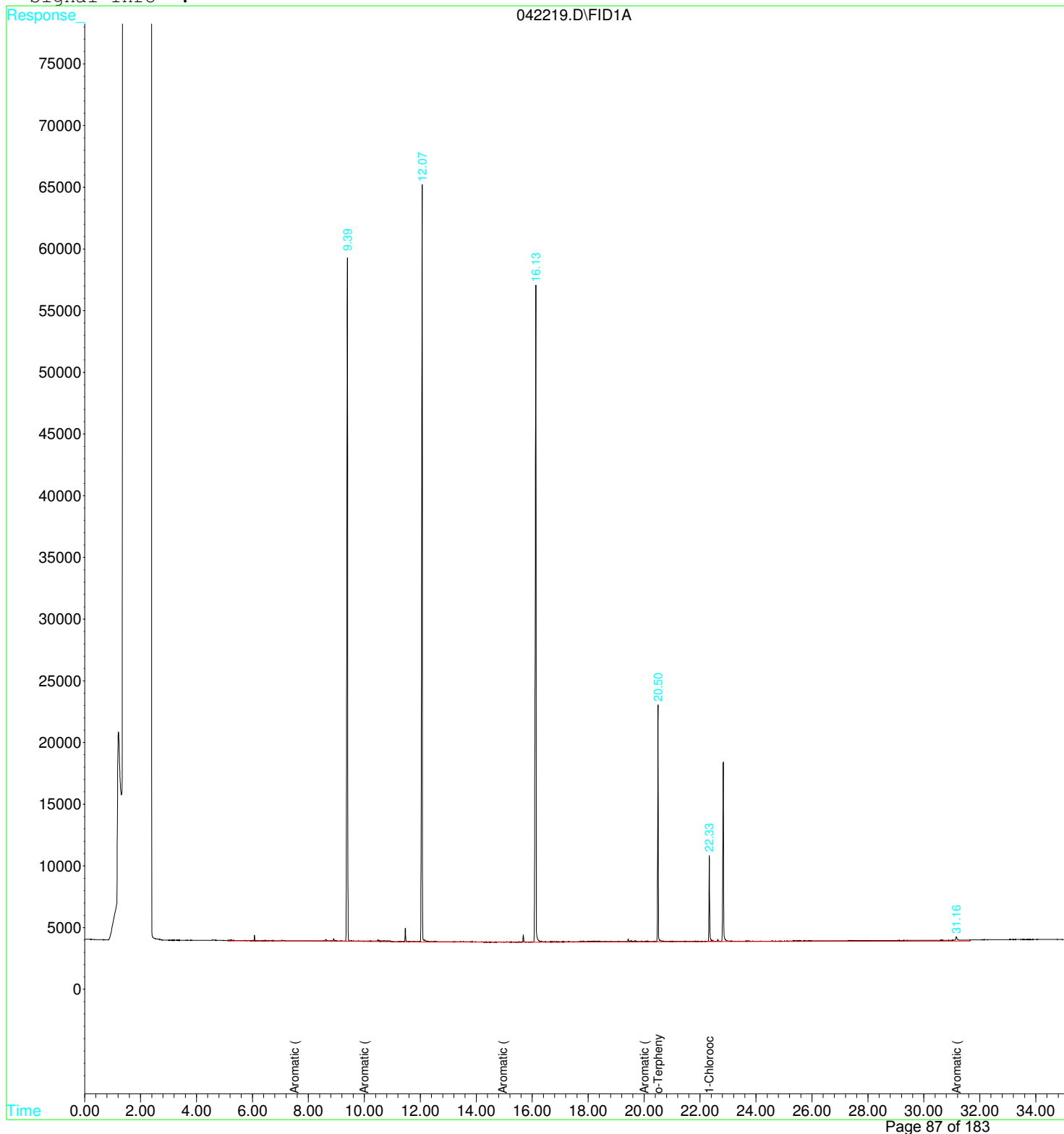
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33f	111019	36.192 mg/L m
2) S o-Terphenyl	20.50	293368	33.050 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	1145049	94.174 mg/L
4) H Aromatic (C10-C12)	10.00	1179392	91.037 mg/L
5) H Aromatic (C12-C16)	14.96	1136310	95.757 mg/L
6) H Aromatic (C16-C21)	20.00	423003	116.845 mg/L
7) H Aromatic (C21-C34)	31.17	203421	102.399 mg/L

Data File : C:\GC20\DATA\04221620\042219.D Vial: 14
Acq On : 23 Apr 2016 4:38 am Operator: CM
Sample : ARO CCV Inst : GC #20
Misc : CCV O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 26 16:55 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 14:29:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04221620\042224.D Vial: 40
 Acq On : 23 Apr 2016 8:22 am Operator: CM
 Sample : MB-13403 Inst : GC #20
 Misc : MBLK O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:08 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

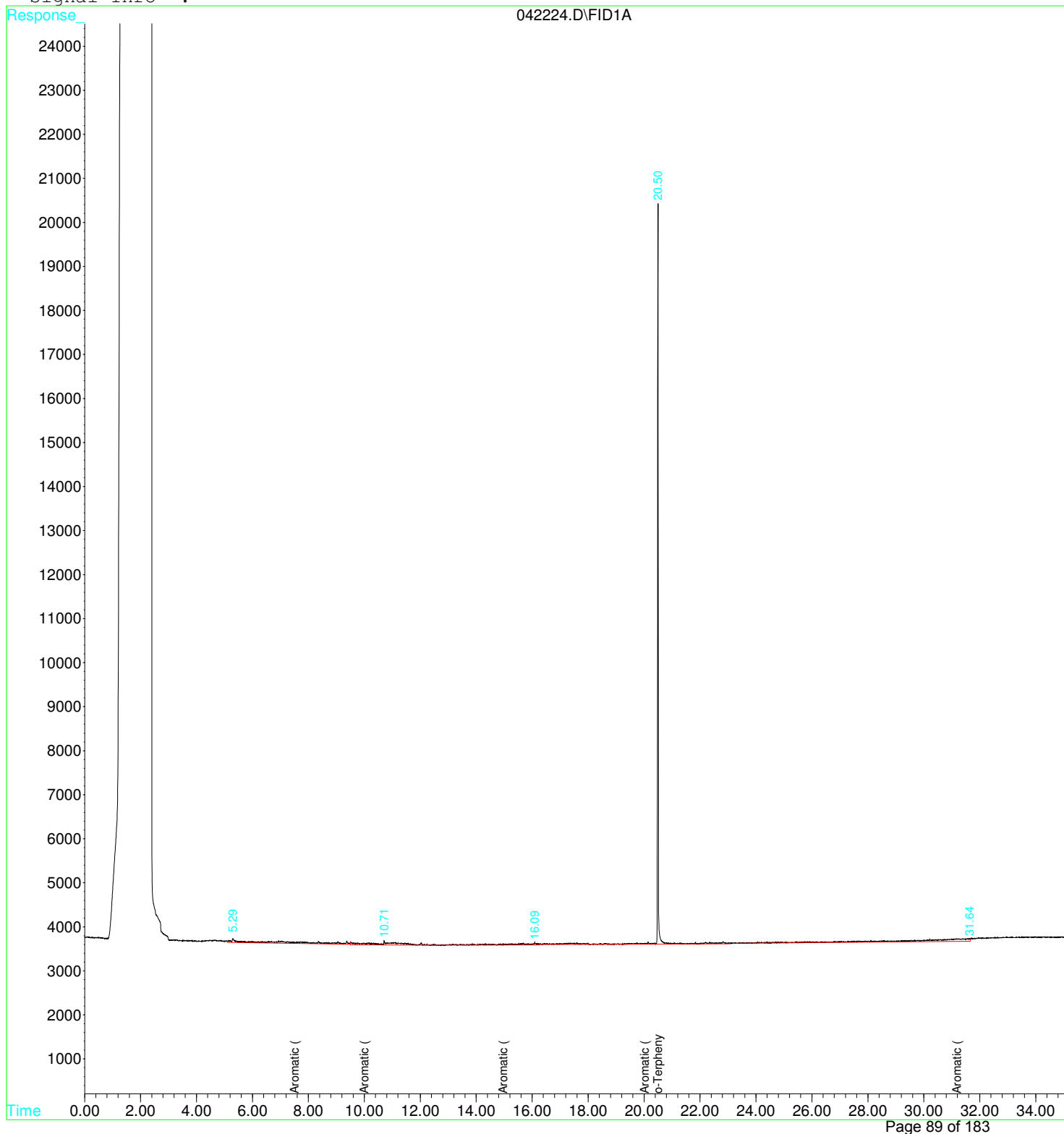
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	0.00	0	N.D. mg/L
2) S o-Terphenyl	20.50	266496	30.240 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	68027	1.308 mg/L
4) H Aromatic (C10-C12)	10.00	47180	3.642 mg/L
5) H Aromatic (C12-C16)	14.96	31524	2.657 mg/L
6) H Aromatic (C16-C21)	20.00	61268	5.770 mg/L
7) H Aromatic (C21-C34)	31.17	101279	0.713 mg/L

Data File : C:\GC20\DATA\04221620\042224.D Vial: 40
 Acq On : 23 Apr 2016 8:22 am Operator: CM
 Sample : MB-13403 Inst : GC #20
 Misc : MBLK O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:08 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042221.D Vial: 37
 Acq On : 23 Apr 2016 6:08 am Operator: CM
 Sample : LCS-13403 Inst : GC #20
 Misc : LCS O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:09 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

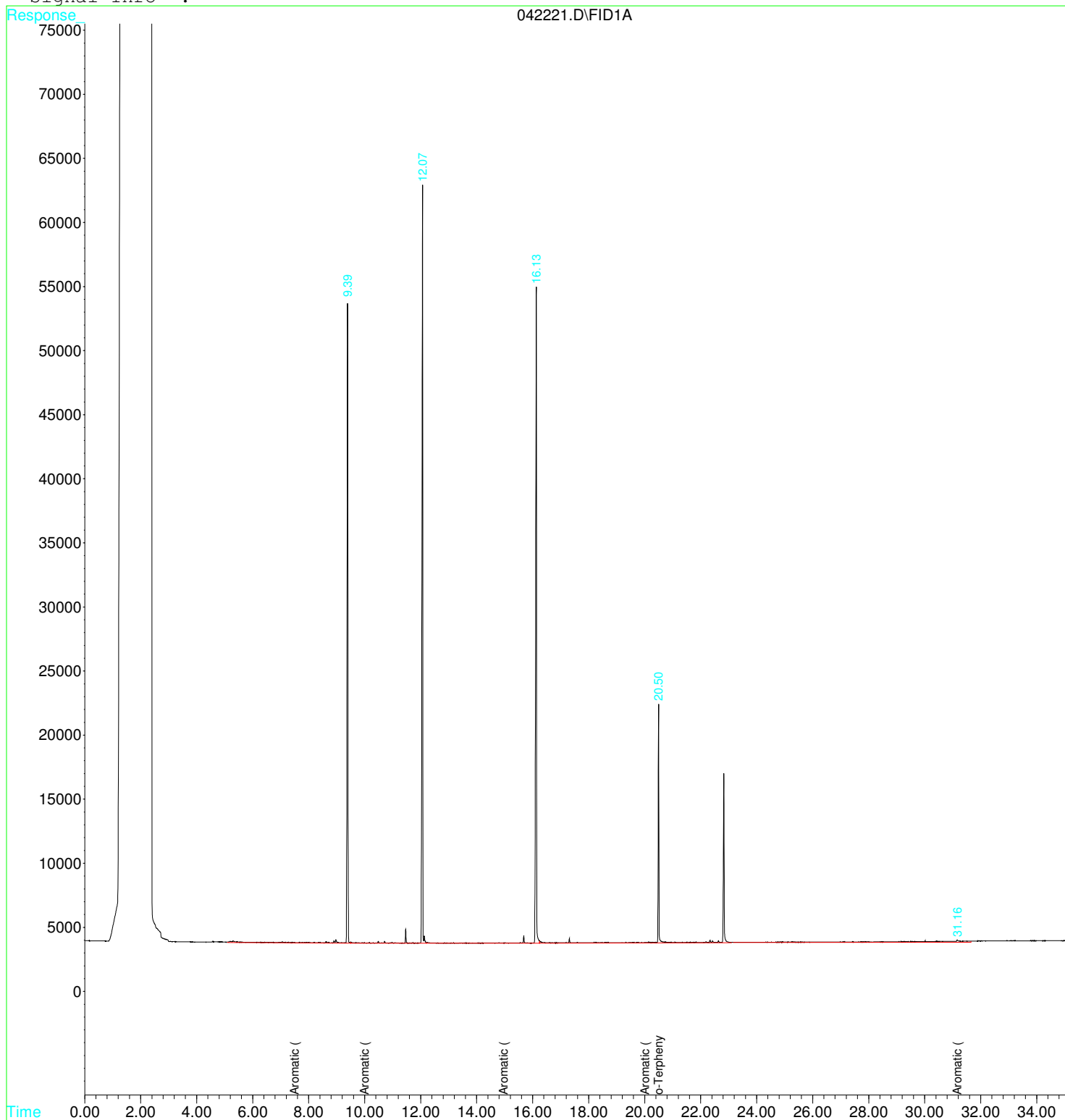
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	0.00	0	N.D. mg/L
2) S o-Terphenyl	20.50	292357	32.944 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	1050653	86.035 mg/L
4) H Aromatic (C10-C12)	10.00	1169668	90.287 mg/L
5) H Aromatic (C12-C16)	14.96	1130175	95.240 mg/L
6) H Aromatic (C16-C21)	20.00	385241	106.597 mg/L
7) H Aromatic (C21-C34)	31.17	177589	75.932 mg/L

Data File : C:\GC20\DATA\04221620\042221.D Vial: 37
 Acq On : 23 Apr 2016 6:08 am Operator: CM
 Sample : LCS-13403 Inst : GC #20
 Misc : LCS O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:09 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042228.D Vial: 44
 Acq On : 23 Apr 2016 11:22 am Operator: CM
 Sample : 1604079-002A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:12 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

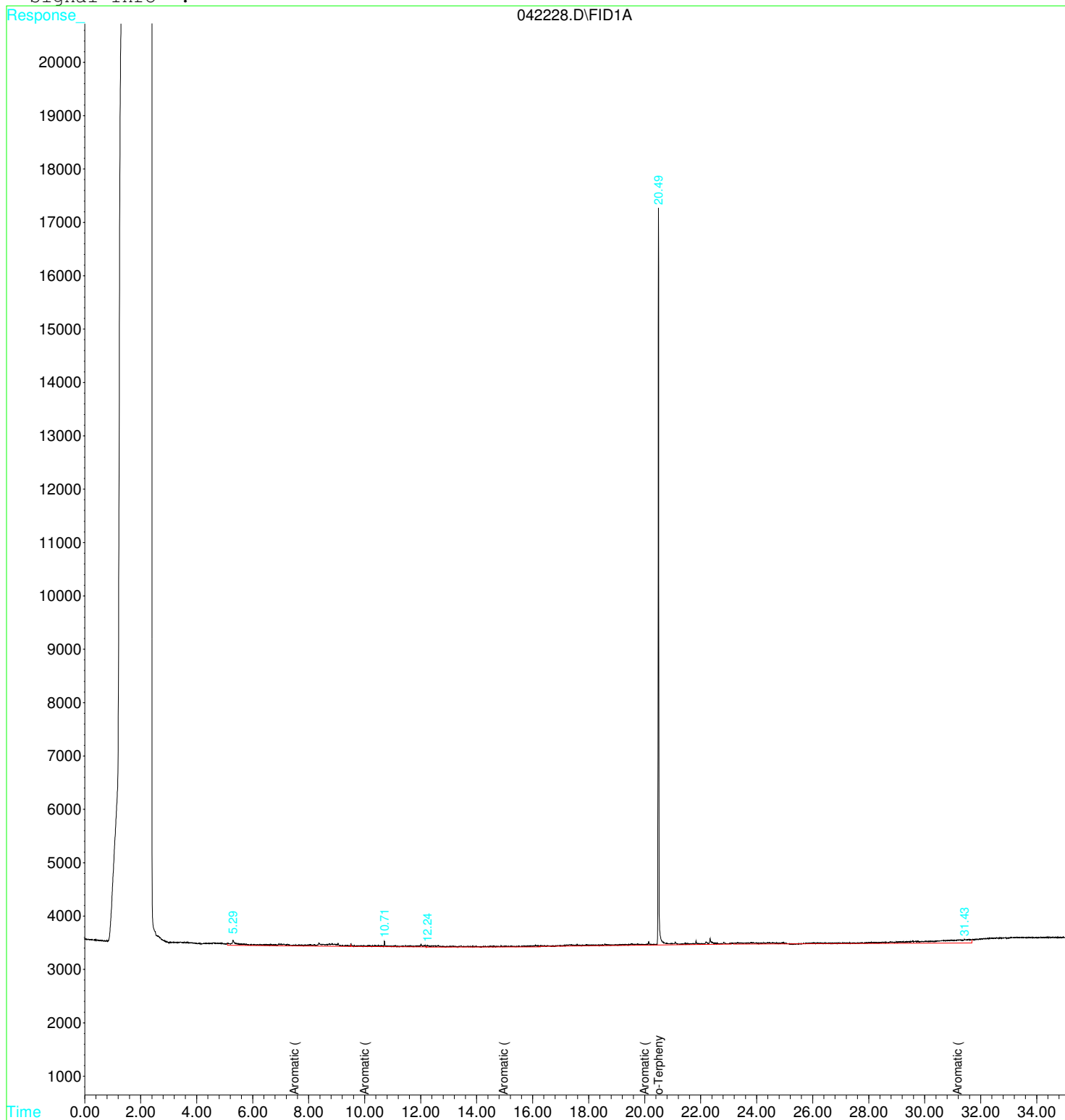
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	0.00	0	N.D. mg/L
2) S o-Terphenyl	20.49	217431	25.109 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	56810	0.341 mg/L
4) H Aromatic (C10-C12)	10.00	18985	1.465 mg/L
5) H Aromatic (C12-C16)	14.96	26137	2.203 mg/L
6) H Aromatic (C16-C21)	20.00	68807	8.466 mg/L
7) H Aromatic (C21-C34)	31.17	104801	4.094 mg/L

Data File : C:\GC20\DATA\04221620\042228.D Vial: 44
Acq On : 23 Apr 2016 11:22 am Operator: CM
Sample : 1604079-002A Inst : GC #20
Misc : SAMP O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 27 13:12 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 14:29:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04221620\042232.D Vial: 48
 Acq On : 23 Apr 2016 2:24 pm Operator: CM
 Sample : 1604081-004A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:15 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

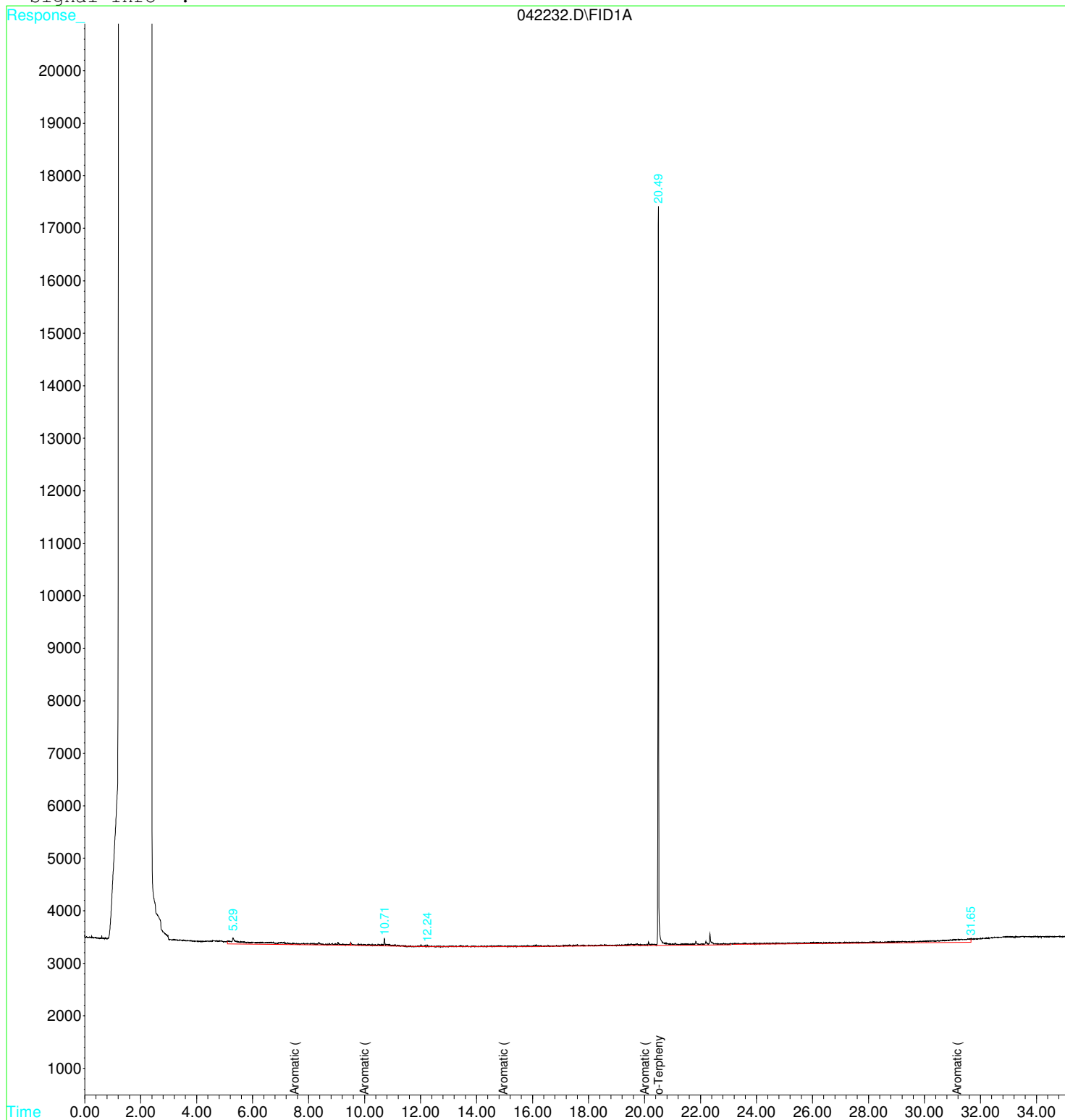
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	0.00	0	N.D. mg/L
2) S o-Terphenyl	20.49	218503	25.221 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	68337	1.335 mg/L
4) H Aromatic (C10-C12)	10.00	22923	1.769 mg/L
5) H Aromatic (C12-C16)	14.96	21830	1.840 mg/L
6) H Aromatic (C16-C21)	20.00	82389	13.268 mg/L
7) H Aromatic (C21-C34)	31.17	106523	5.750 mg/L

Data File : C:\GC20\DATA\04221620\042232.D Vial: 48
Acq On : 23 Apr 2016 2:24 pm Operator: CM
Sample : 1604081-004A Inst : GC #20
Misc : SAMP O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 27 13:15 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
Title :
Last Update : Mon Apr 25 14:29:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : EPHSG.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\GC20\DATA\04221620\042233.D Vial: 49
 Acq On : 23 Apr 2016 3:10 pm Operator: CM
 Sample : 1604081-004ADUP Inst : GC #20
 Misc : DUP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:16 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

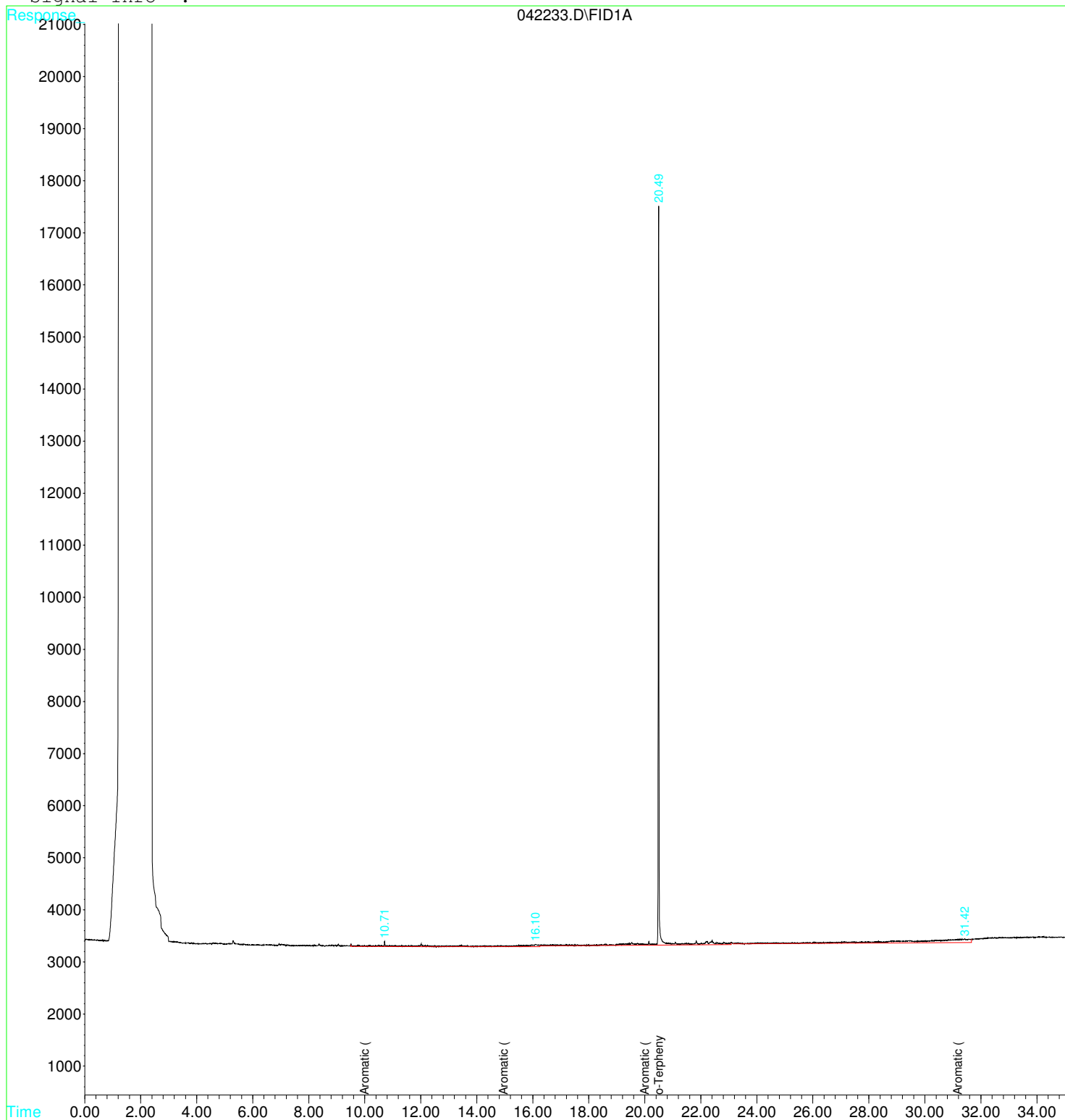
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	0.00	0	N.D. mg/L
2) S o-Terphenyl	20.49	227232	26.134 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	41244	N.D. mg/L
4) H Aromatic (C10-C12)	10.00	19715	1.522 mg/L
5) H Aromatic (C12-C16)	14.96	28949	2.440 mg/L
6) H Aromatic (C16-C21)	20.00	92140	16.674 mg/L
7) H Aromatic (C21-C34)	31.17	107609	6.795 mg/L

Data File : C:\GC20\DATA\04221620\042233.D Vial: 49
 Acq On : 23 Apr 2016 3:10 pm Operator: CM
 Sample : 1604081-004ADUP Inst : GC #20
 Misc : DUP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:16 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042219.D Vial: 14
 Acq On : 23 Apr 2016 4:38 am Operator: CM
 Sample : ARO CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 12:00 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

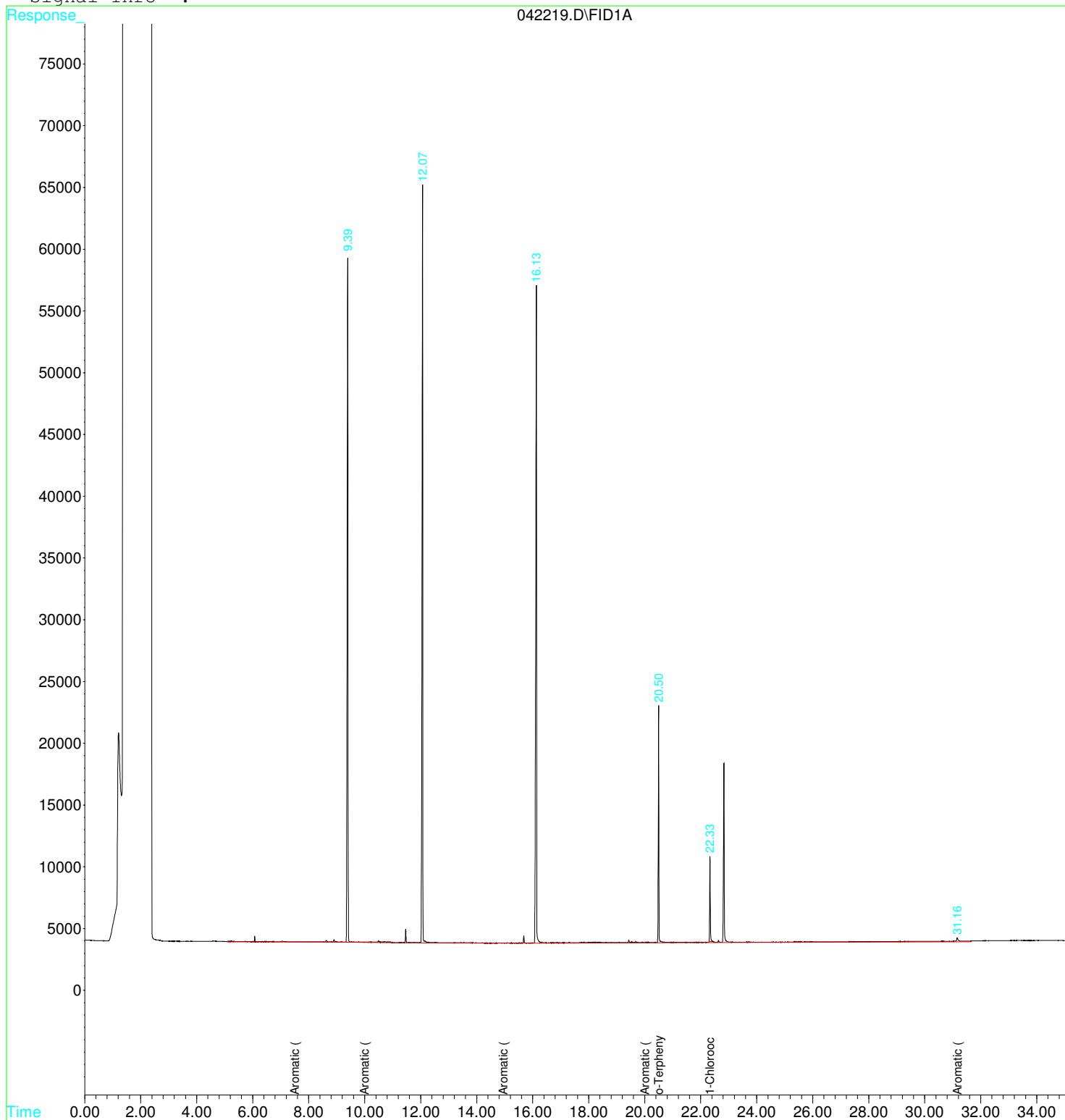
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33f	104906	35.297 mg/L
2) S o-Terphenyl	20.50	293368	33.050 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	1145049	94.174 mg/L
4) H Aromatic (C10-C12)	10.00	1179392	91.037 mg/L
5) H Aromatic (C12-C16)	14.96	1136310	95.757 mg/L
6) H Aromatic (C16-C21)	20.00	429116	118.482 mg/L
7) H Aromatic (C21-C34)	31.17	198515	97.331 mg/L

Data File : C:\GC20\DATA\04221620\042219.D Vial: 14
 Acq On : 23 Apr 2016 4:38 am Operator: CM
 Sample : ARO CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 12:00 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\GC20\DATA\04221620\042234.D Vial: 14
 Acq On : 23 Apr 2016 3:56 pm Operator: CM
 Sample : ARO CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:16 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Initial Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :

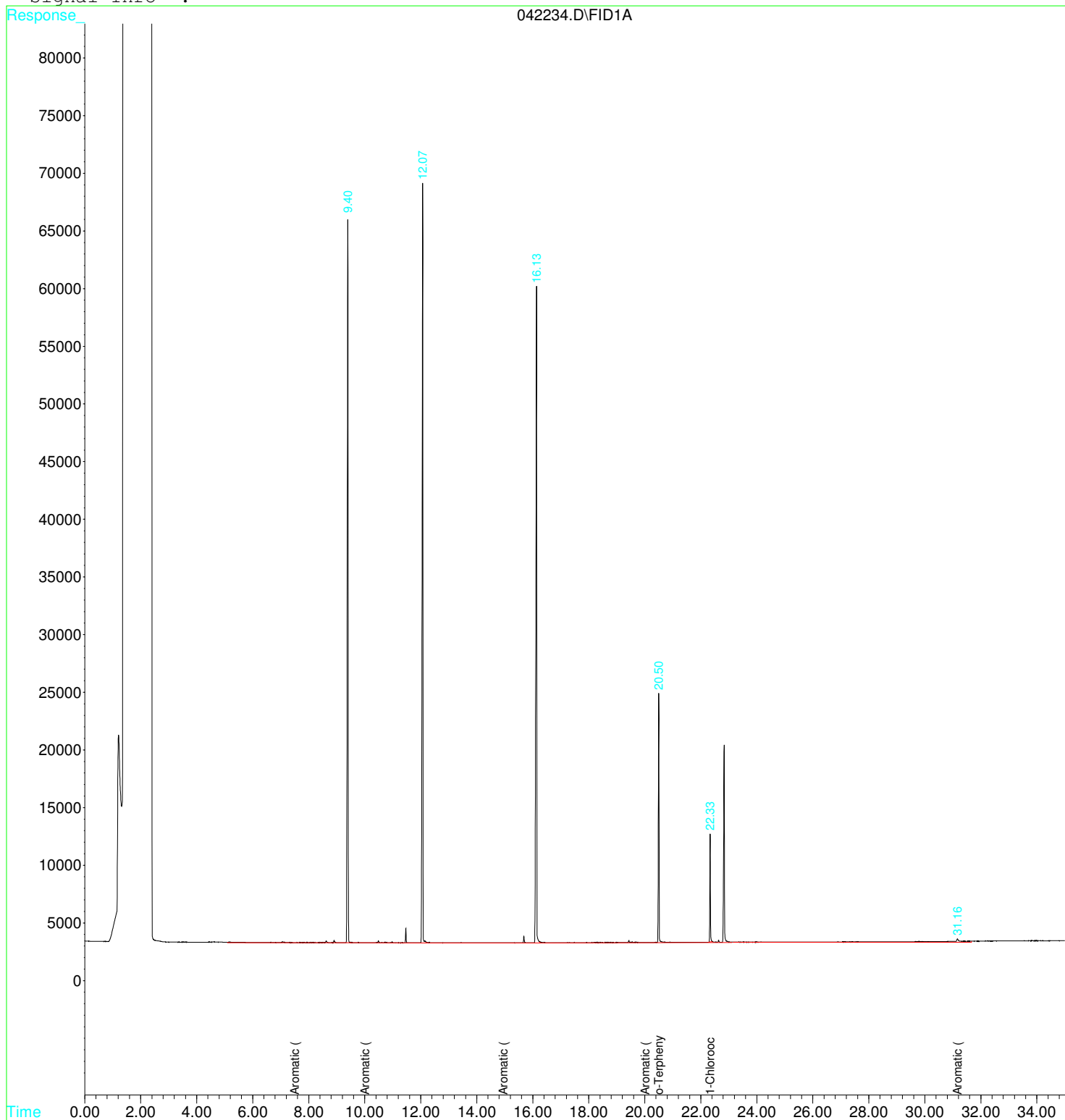
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1-Chlorooctadecane	22.33f	138597	40.228 mg/L
2) S o-Terphenyl	20.50	343546	38.298 mg/L
Target Compounds			
3) H Aromatic (C8-C10)	7.50	1261027	104.174 mg/L
4) H Aromatic (C10-C12)	10.00	1317798	101.721 mg/L
5) H Aromatic (C12-C16)	14.96	1274103	107.369 mg/L
6) H Aromatic (C16-C21)	20.00	433100	119.545 mg/L
7) H Aromatic (C21-C34)	31.17	190701	89.299 mg/L

Data File : C:\GC20\DATA\04221620\042234.D Vial: 14
 Acq On : 23 Apr 2016 3:56 pm Operator: CM
 Sample : ARO CCV Inst : GC #20
 Misc : CCV O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:16 2016 Quant Results File: ARG20421.RES

Quant Method : C:\GC20\M...\ARG20421.M (Chemstation Integrator)
 Title :
 Last Update : Mon Apr 25 14:29:26 2016
 Response via : Multiple Level Calibration
 DataAcq Meth : EPHSG.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Injection Log

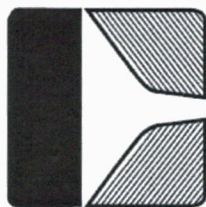
Directory: C:\GC20\DATA\04221620

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	042201.d	1.	ALI CCV	CCV O-EPH-S	22 Apr 2016 14:51
2	14	042202.d	1.	ARO CCV	CCV O-EPH-S	22 Apr 2016 15:38
3	21	042203.d	1.	FLA TPH	CCV O-EPH-S	22 Apr 2016 16:26
4	22	042204.d	1.	ALI IDC1	LCS O-EPH-S	22 Apr 2016 17:13
5	23	042205.d	1.	LCS-13403	LCS O-EPH-S	22 Apr 2016 18:01
6	24	042206.d	1.	ALI IDC3	LCS O-EPH-S	22 Apr 2016 18:48
7	25	042207.d	1.	ALI IDC4	LCS O-EPH-S	22 Apr 2016 19:34
8	26	042208.d	1.	MB-13403	MBLK O-EPH-S	22 Apr 2016 20:20
9	27	042209.d	1.	LCS-13403	MBLK O-EPH-S	22 Apr 2016 21:05
10	28	042210.d	1.	1604078-002A	SAMP O-EPH-S	22 Apr 2016 21:51
11	29	042211.d	1.	1604078-004A	SAMP O-EPH-S	22 Apr 2016 22:37
12	30	042212.d	1.	1604079-002A	SAMP O-EPH-S	22 Apr 2016 23:22
13	31	042213.d	1.	1604080-002A	SAMP O-EPH-S	23 Apr 2016 00:08
14	32	042214.d	1.	1604080-004A	SAMP O-EPH-S	23 Apr 2016 00:53
15	33	042215.d	1.	1604081-002	SAMP O-EPH-S	23 Apr 2016 01:38
16	34	042216.d	1.	1604081-004	SAMP O-EPH-S	23 Apr 2016 02:23
17	35	042217.d	1.	1604081-004DUP	DUP O-EPH-S	23 Apr 2016 03:08
18	4	042218.d	1.	ALI CCV	CCV O-EPH-S	23 Apr 2016 03:53
19	14	042219.d	1.	ARO CCV	CCV O-EPH-S	23 Apr 2016 04:38
20	36	042220.d	1.	AR IDC1	LCS O-EPH-S	23 Apr 2016 05:23
21	37	042221.d	1.	LCS-13403	LCS O-EPH-S	23 Apr 2016 06:08
22	38	042222.d	1.	AR IDC3	LCS O-EPH-S	23 Apr 2016 06:53
23	39	042223.d	1.	AR IDC4	LCS O-EPH-S	23 Apr 2016 07:37
24	40	042224.d	1.	MB-13403	MBLK O-EPH-S	23 Apr 2016 08:22
25	41	042225.d	1.	LCS-13403	LCS O-EPH-S	23 Apr 2016 09:07
26	42	042226.d	1.	1604078-002A	SAMP O-EPH-S	23 Apr 2016 09:52
27	43	042227.d	1.	1604078-004A	SAMP O-EPH-S	23 Apr 2016 10:37
28	44	042228.d	1.	1604079-002A	SAMP O-EPH-S	23 Apr 2016 11:22
29	45	042229.d	1.	1604080-002A	SAMP O-EPH-S	23 Apr 2016 12:07
30	46	042230.d	1.	1604080-004A	SAMP O-EPH-S	23 Apr 2016 12:52
31	47	042231.d	1.	1604081-002A	SAMP O-EPH-S	23 Apr 2016 13:38
32	48	042232.d	1.	1604081-004A	SAMP O-EPH-S	23 Apr 2016 14:24
33	49	042233.d	1.	1604081-004ADUP	DUP O-EPH-S	23 Apr 2016 15:10
34	14	042234.d	1.	ARO CCV	CCV O-EPH-S	23 Apr 2016 15:56



Supporting Data

17986-
17993



Crescent Chemical Co., Inc.

2 OVAL DRIVE, ISLANDIA NY 11749

TEL: (631) 348-0333 FAX: (631) 348-0913

www.crescentchemical.com

Certificate of Analysis

Rev 0

Catalog No.: CCO-2683 **Lot No.:** 260540 **Storage:** ≤ -10 °C **Solvent:** Methylene Chloride **Exp. Date:** 9/15/2017 **Description:** EPH Aliphatic Check Mix, 10,000 mg/L, 5 x 1 mL -10X

Compound	CAS No	Purity (%)	Compound Lot No	Concentration, mg/L
n-decane (C10)	124-18-5	99.4	415.1.2P	10020
n-dodecane (C12)	112-40-3	99	416.9.1.1P	9910
n-heneicosane (C21)	629-94-7	99.6	547.1.1P	10110
n-hexadecane (C16)	544-76-3	99	368.13.1P	9959
octane (C8)	111-65-9	99.5	385.1.1P	9915

Certified By: *F. Zuber*

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 gravimetrically.

Manufacturer is ISO/IEC 17025:2005 Accredited by A2LA - Certificate Number 3031.01 for Chemical Testing

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

17980-17905



Crescent Chemical Co., Inc.

2 OVAL DRIVE, ISLANDIA NY 11749
TEL:(631) 348-0333 FAX: (631) 348-0913
www.crescentchemical.com

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
CCO-2682	260542	≤ -10 °C -10X	Methylene Chloride	9/15/2017	EPH Aromatic Check Mix, 10,000 mg/L, 5 x 1 ml

Compound	CAS No	Purity (%)	Compound Lot No	Concentration, mg/L
1,2,3-trimethylbenzene	526-73-8	99	869.3.9.2P	9999
acenaphthene	83-32-9	99	13.1.4P	10040
benzo[ghi]perylene	191-24-2	99.6	19.4.5.3P	9945
naphthalene	91-20-3	99.9	26.29.1P	9990
pyrene	129-00-0	98.5	28.29.1P	10010

Certified By: *F. Zuber*

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 gravimetrically.

Manufacturer is ISO/IEC 17025:2005 Accredited by A2LA - Certificate Number 3031.01 for Chemical Testing

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



DATA SET for Review -- Deliverable Requirements

VPH by NWTPH-VPH

Fremont Analytical Work Order No. 1604079

Apex Laboratories

Project Name: A6C1134

This Data set contains the following:

- Analytical Sequence Summary for **Work Order 1604079**
- Raw Printouts and Chromatograms for Analytical Sequence(s) governing **Work Order 1604079** including: Initial and Continuing Calibration Data, Blank, Laboratory Control, Duplicates, Spikes, Samples / Batch QC
- Prep Summary and Bench Sheets

Data Directory: C:\GC-2\DATA\041116\2016-04-11\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 001F0101.D CLEANOUT		1	1.000	11-Apr-2016, 09:43:07
2) 001F0201.D CCV-A-17689	CCV O-VPH-S	1	1.000	11-Apr-2016, 10:18:34
3) 001F0301.D CLEANOUT		1	1.000	11-Apr-2016, 10:53:44
4) 001F0401.D 1604078-001A	SAMP O-VPH-S	1	1.000	11-Apr-2016, 11:29:20
5) 001F0501.D 1604078-003A	SAMP O-VPH-S	1	1.000	11-Apr-2016, 12:04:51
6) 001F0601.D 1604079-001A	SAMP O-VPH-S	1	1.000	11-Apr-2016, 12:40:24
7) 001F0701.D 1604079-001ADUP	DUP O-VPH-S	1	1.000	11-Apr-2016, 13:16:16
8) 001F0801.D 1604080-001A	SAMP O-VPH-S	1	1.000	11-Apr-2016, 13:51:53
9) 001F0901.D 1604080-003A	SAMP O-VPH-S	1	1.000	11-Apr-2016, 14:27:37
10) 001F1001.D 1604081-001A	SAMP O-VPH-S	1	1.000	11-Apr-2016, 15:03:39
11) 001F1101.D 1604081-003A	SAMP O-VPH-S	1	1.000	11-Apr-2016, 15:39:28
12) 001F1201.D 1604081-003AMS	MS O-VPH-S	1	1.000	11-Apr-2016, 16:15:27
13) 001F1301.D 1604081-003AMSD	MSD O-VPH-S	1	1.000	11-Apr-2016, 16:51:00
14) 001F1401.D LCS-13429	LCS O-VPH-S	1	1.000	11-Apr-2016, 17:26:40
15) 001F1501.D CLEANOUT		1	1.000	11-Apr-2016, 18:02:17
16) 001F1601.D CLEANOUT		1	1.000	11-Apr-2016, 18:37:35
17) 001F1701.D MB-13429	MBLK O-VPH-S	1	1.000	11-Apr-2016, 19:13:12
18) 001F1801.D CCV-B-13429	CCV O-VPH-S	1	1.000	11-Apr-2016, 19:48:55
19) 001F1901.D CLEANOUT		1	1.000	11-Apr-2016, 20:24:27
20) 001F2001.D CLEANOUT		1	1.000	11-Apr-2016, 20:59:53
21) 001F2101.D VPH 10 PPB 17869	ICAL O-VPH-S	1	1.000	11-Apr-2016, 21:35:16

22)	001F2201.D						
VPH	20	PPB	17869	ICAL	O-VPH-S	1	1.000
							11-Apr-2016, 22:10:53

23)	001F2301.D						
VPH	50	PPB	17869	ICAL	O-VPH-S	1	1.000
							11-Apr-2016, 22:46:19

24)	001F2401.D						
VPH	100	PPB	17869	ICAL	O-VPH-S	1	1.000
							11-Apr-2016, 23:21:59

25)	001F2501.D						
VPH	200	PPB	17869	ICAL	O-VPH-S	1	1.000
							11-Apr-2016, 23:58:00

26)	001F2601.D						
CLEANOUT						1	1.000
							12-Apr-2016, 00:33:27

27)	001F2701.D						
VPH	500	PPB	17869	ICAL	O-VPH-S	1	1.000
							12-Apr-2016, 01:09:21

28)	001F2801.D						
CLEANOUT						1	1.000
							12-Apr-2016, 01:44:30

29)	001F2901.D						
VPH	1000	PPB	17869	ICAL	O-VPH-S	1	1.000
							12-Apr-2016, 02:20:22

30)	001F3001.D						
CLEANOUT						1	1.000
							12-Apr-2016, 02:55:41

31)	001F3101.D						
CLEANOUT						1	1.000
							12-Apr-2016, 03:30:50

32)	001F3201.D						
ICB-				ICB	O-VPH-S	1	1.000
							12-Apr-2016, 04:06:12

33)	001F3301.D						
ICV-17311				ICV	O-VPH-S	1	1.000
							12-Apr-2016, 04:41:38

Data Directory: C:\GC-2\DATA\041216\2016-04-12\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 001F0101.D CLEANOUT		1	1.000	12-Apr-2016, 12:55:57
2) 001F0201.D CCV-A-17689	CCV O-VPH-S	1	1.000	12-Apr-2016, 13:31:26
3) 001F0201-1.D CLEANOUT		1	1.000	12-Apr-2016, 15:35:13
4) 001F0201-2.D LCS-A-13429	LCS O-VPH-S	1	1.000	12-Apr-2016, 16:10:42
5) 001F0301.D CLEANOUT		1	1.000	12-Apr-2016, 16:45:42
6) 001F0401.D MB-13429	MBLK O-VPH-S	1	1.000	12-Apr-2016, 17:20:59
7) 001F0501.D 1604078-001A	SAMP O-VPH-S	1	1.000	12-Apr-2016, 17:56:22
8) 001F0601.D 1604078-003A	SAMP O-VPH-S	1	1.000	12-Apr-2016, 18:31:36
9) 001F0701.D 1604078-003ADUP	DUP O-VPH-S	1	1.000	12-Apr-2016, 19:06:57
10) 001F0801.D 1604079-001A	SAMP O-VPH-S	1	1.000	12-Apr-2016, 19:42:25
11) 001F0901.D 1604080-001A	SAMP O-VPH-S	1	1.000	12-Apr-2016, 20:17:48
12) 001F1001.D 1604080-003A	SAMP O-VPH-S	1	1.000	12-Apr-2016, 20:53:27
13) 001F1101.D 1604081-001A	SAMP O-VPH-S	1	1.000	12-Apr-2016, 21:29:11
14) 001F1201.D 1604081-003A	SAMP O-VPH-S	1	1.000	12-Apr-2016, 22:04:24
15) 001F1301.D 1604081-001AMS	MS O-VPH-S	1	1.000	12-Apr-2016, 22:39:37
16) 001F1401.D 1604081-001AMSD	MSD O-VPH-S	1	1.000	12-Apr-2016, 23:14:49
17) 001F1501.D CLEANOUT		1	1.000	12-Apr-2016, 23:50:11
18) 001F1601.D CCV-B-13429	CCV O-VPH-S	1	1.000	13-Apr-2016, 00:25:46



Calibration

Method Path : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\
 Method File : QV041116.M
 Title : BTEX
 Last Update : Fri Apr 15 09:42:15 2016
 Response Via : Initial Calibration

Calibration Files

1 =001F2101.D 2 =001F2201.D 3 =001F2301.D
 4 =001F2401.D 5 =001F2501.D 6 =001F2701.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) S	1,4-Difluorob...	3.718	4.784	4.508	3.229	3.352	3.907	3.842	E4 15.65
2) S	Bromofluorobe...	5.607	7.325	8.663	8.265	7.876	9.166	8.099	E4 16.88
3) t	MTBE		1.765	0.937	0.507	0.264	0.142	0.723	E4 90.90
4) t	Benzene	1.350	1.947	1.546	1.259	1.206	1.474	1.490	E5 17.12
5) t	Toluene	1.221	1.823	1.518	1.229	1.204	1.468	1.441	E5 16.43
6) t	Ethylbenzene	1.039	1.494	1.333	1.066	1.039	1.239	1.229	E5 15.07
7) t	m&p xylenes	1.325	1.886	1.765	1.424	1.377	1.581	1.589	E5 13.89
8) t	o xylene	1.279	1.738	1.674	1.362	1.312	1.492	1.502	E5 12.61
9) t	1,2,3-Trimeth...	0.895	1.292	1.412	1.196	1.161	1.162	1.222	E5 15.02
10) t	Naphthalene	1.366	0.553	0.543	0.081	1.366	2.135	1.628	E3 109.24
11) T	PID C8-C10	2.406	2.677	2.327	1.826	1.746	1.933	2.159	E5 15.72
12) T	PID C10-C12	1.873	0.760	0.289	0.170	0.128	0.247	0.583	E4 105.60
13) T	PID C12-C13		5.493	1.815	0.813	0.570	0.321	1.571	E3 127.06
14) T	SUB C6-C8	2.427	2.729	1.864	1.442	1.381	1.672	1.901	E5 26.38
15) T	SUB C8-C10	2.929	3.065	2.586	1.980	1.851	2.109	2.410	E5 19.47
16) T	SUB C10-C12	1.282	1.533	1.544	1.350	1.293	1.322	1.414	E5 9.20

Signal #2 Calibration Files

1 =001F2101.D 2 =001F2201.D 3 =001F2301.D
 4 =001F2401.D 5 =001F2501.D 6 =001F2701.D

	Compound	1	2	3	4	5	6	Avg	%RSD
18)	Signal 2 #2							0.000	-1.00
19) t	MTBE 2	1.231	1.448	0.461	0.318	0.192	0.079	0.540	E3 105.12
20) t	HEXANE	0.851	3.620	0.049	1.947	1.772	0.007	1.541	E3 86.23
21) T	FID C5-C6	3.558	2.301	1.877	1.279	1.094	1.229	1.822	E3 48.01
22) T	FID C6-C8	1.077	0.859	0.544	0.379	0.312	0.384	0.571	E4 50.39
23) T	FID C8-C10	7.702	8.074	6.719	4.966	4.605	5.244	6.195	E3 21.89
24) T	FID C10-C12		4.258	4.438	3.331	2.335	2.303	3.314	E3 27.48

(#) = Out of Range ### Number of calibration levels exceeded format ###

QV041116.M Fri Apr 15 10:48:25 2016

Method Path : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\
 Method File : QV041116.M
 Title : BTEX
 Last Update : Fri Apr 15 09:42:15 2016
 Response Via : Initial Calibration

Calibration Files

1 =001F2101 2 =001F2201 3 =001F2301 4 =001F2401 5 =001F2501
 6 =001F2701 7 =001F2901

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	1,4-Difluorobenzene	Avg	-----	3.8416 e4	-----	0.1565
2) S	Bromofluorobenzene	Avg	-----	8.0995 e4	-----	0.1688
3) t	MTBE	Quad	3.7819 e5	1.0482 e3	-0.7832	0.9168
4) t	Benzene	Avg	-----	1.4899 e5	-----	0.1712
5) t	Toluene	Avg	-----	1.4413 e5	-----	0.1643
6) t	Ethylbenzene	Avg	-----	1.2285 e5	-----	0.1507
7) t	m&p xylenes	Avg	-----	1.5894 e5	-----	0.1389
8) t	o xylene	Avg	-----	1.5023 e5	-----	0.1261
9) t	1,2,3-Trimethylbe...	Avg	-----	1.2223 e5	-----	0.1502
10) t	Naphthalene	Quad	5.4731 e4	-8.8649 e2	6.1652	0.9986
11) T	PID C8-C10	Lin	-1.0724 e7	2.1683 e5	-----	0.9952
12) T	PID C10-C12	Quad	2.1809 e5	-1.6275 e3	7.5233	0.9997
13) T	PID C12-C13	Quad	9.9441 e4	-6.4069 e1	0.3789	0.9929
14) T	SUB C6-C8	Lin	-3.6226 e6	1.7808 e5	-----	0.9965
15) T	SUB C8-C10	Lin	-7.4288 e6	2.3228 e5	-----	0.9957
16) T	SUB C10-C12	Quad	1.4816 e6	1.0683 e5	4.8932 e1	0.9997

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
18)	Signal 2 #2	Lin	-----	-----	-----	0.0000
19) t	MTBE 2	Lin	2.4577 e4	2.7445 e1	-----	0.6828
20) t	HEXANE	Lin	-1.4587 e5	2.2342 e3	-----	0.7672
21) T	FID C5-C6	Lin	-1.6164 e4	1.3767 e3	-----	0.9925
22) T	FID C6-C8	Lin	-8.5883 e4	4.2948 e3	-----	0.9911
23) T	FID C8-C10	Lin	-3.0476 e5	5.9591 e3	-----	0.9936
24) T	FID C10-C12	Quad	2.8137 e5	1.1145 e3	0.9786	0.9983

QV041116.M Fri Apr 15 10:48:50 2016

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 21:35:16
 Operator : BC
 Sample : VPH 10 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 09:59:58 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
1) S 1,4-Difluorobenzene	8.717	1859106	48.394	ug/l
2) S Bromofluorobenzene	16.436	2803631	34.615	ug/l
Target Compounds				
3) t MTBE	5.868f	205356	1486.774	ug/l m
4) t Benzene	8.212	1332943	8.947	ug/l m
5) t Toluene	11.383	1220627	8.469	ug/l
6) t Ethylbenzene	14.345	1038937	8.457	ug/l
7) t m&p xylenes	14.649	2650566	16.676	ug/l
8) t o xylene	15.354	1279219	8.515	ug/l
9) t 1,2,3-Trimethylbenzene	19.202	895270	7.325	ug/l
10) t Naphthalene	22.842	13663	BelowCal	ug/l
11) T PID C8-C10	16.435	10367413	97.275	ug/l m
12) T PID C10-C12	22.838f	116369	BelowCal	ug/l m
13) T PID C12-C13	26.885	72702	BelowCal	ug/l m
14) T SUB C6-C8	8.715f	5184380	49.455	ug/l m
15) T SUB C8-C10	16.435	8456161	68.389	ug/l m
16) T SUB C10-C12	19.201	1244826	BelowCal	ug/l m
18) Signal 2 #2	0.000	0	N.D.	
19) t MTBE 2	5.874	12313	N.D.	ug/l
20) t HEXANE	6.328	8506	69.097	ug/l
21) T FID C5-C6	6.494	112635	93.558	ug/l m
22) T FID C6-C8	8.718f	296945	89.139	ug/l m
23) T FID C8-C10	14.654	319818	104.812	ug/l m
24) T FID C10-C12	19.210	193156	BelowCal	ug/l m

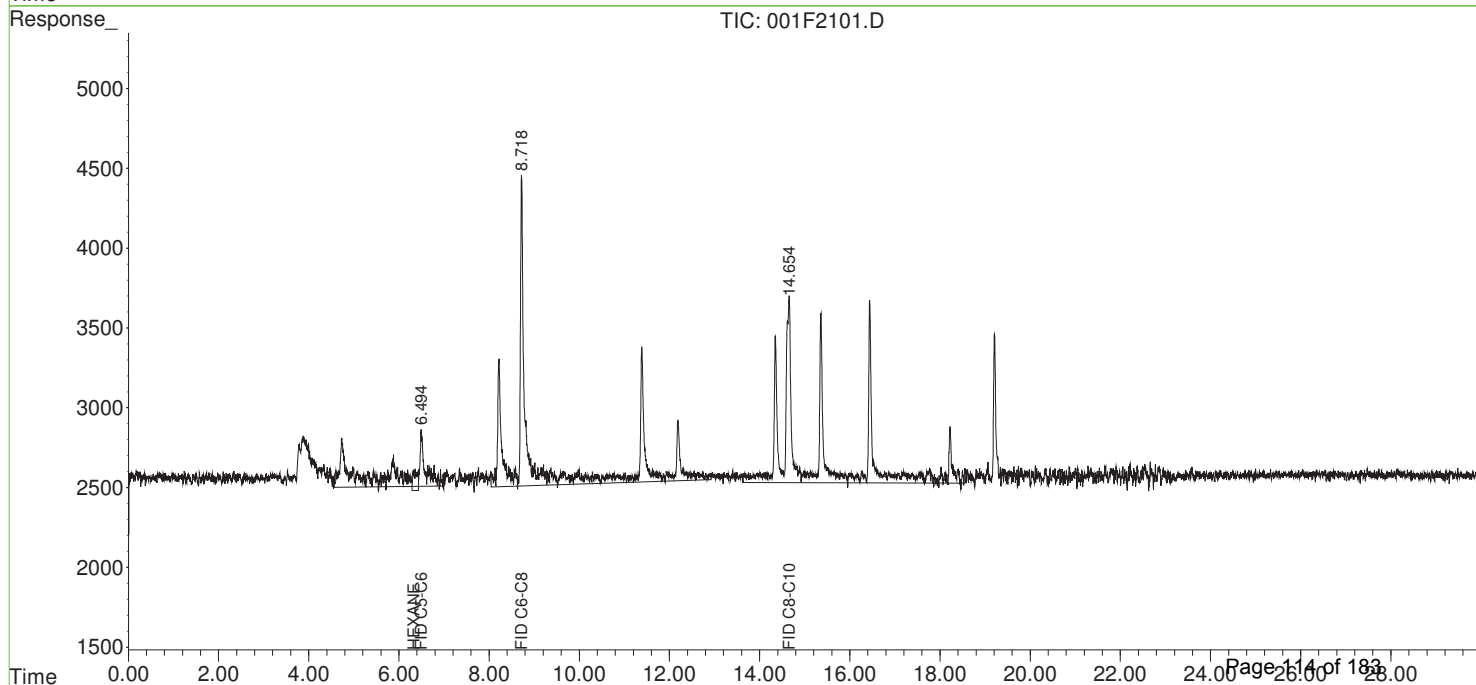
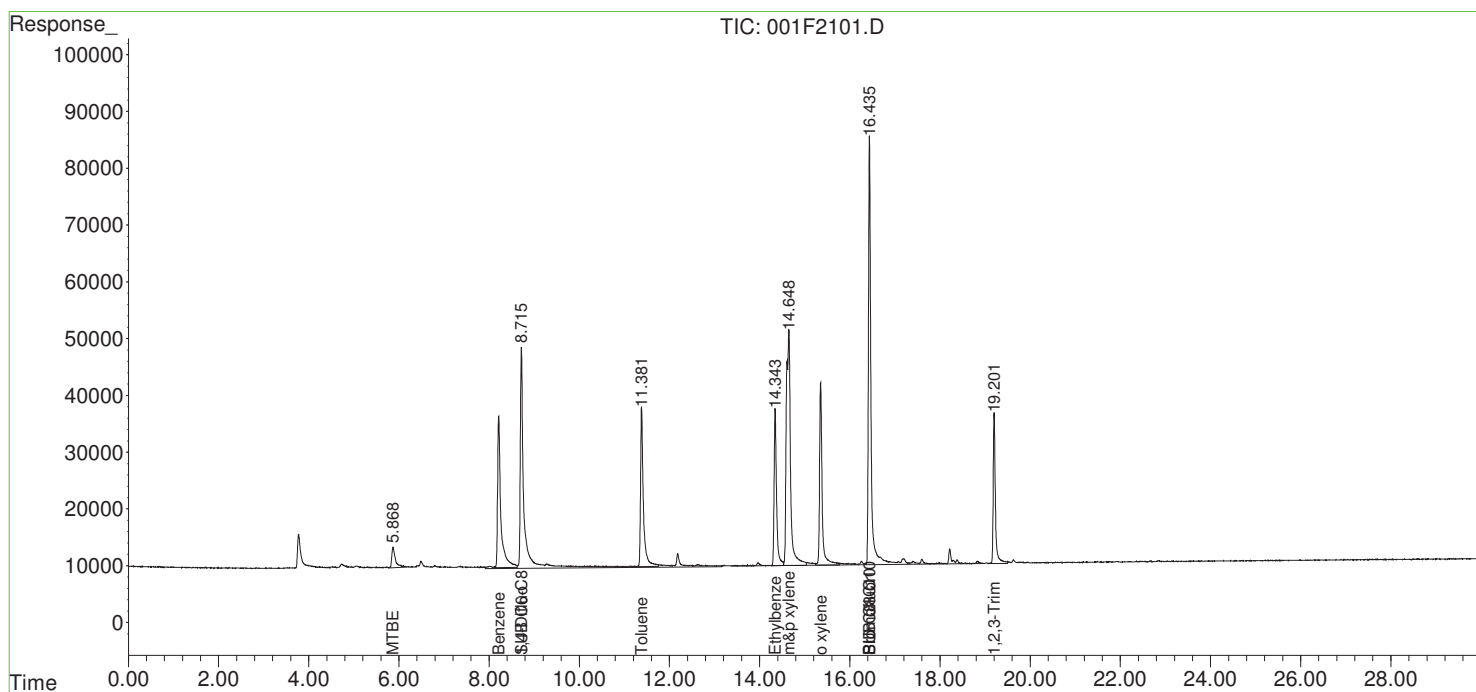
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 21:35:16
 Operator : BC
 Sample : VPH 10 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 09:59:58 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 15:47:59
 Operator : BC
 Sample : VPH 10 PPB 18064 (Sig #1); CLEANOUT (Sig #2)
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:01 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.604	2876724	51.097 ug/l
2) S Bromofluorobenzene	16.408	7520416	48.175 ug/l
Target Compounds			
3) t MTBE	5.679	460541	6.496 ug/l
4) t Benzene	8.083	1931591	10.549 ug/l
5) t Toluene	11.311	1947581	11.180 ug/l
6) t Ethylbenzene	14.305	1786874	5.471 ug/l
7) t m&p xylenes	14.612	4539854	4.445 ug/l m
8) t o xylene	15.320	2002645	1.830 ug/l
9) t 1,2,3-Trimethylbenzene	19.189	2245701	5.899 ug/l
10) t Naphthalene	22.843	1547910	18.618 ug/l
11) T PID C8-C10	16.406	20880209	28.097 ug/l m
12) T PID C10-C12	22.841f	2062524	13.644 ug/l m
13) T PID C12-C13	25.830f	816192	22.113 ug/l m
14) T SUB C6-C8	8.602f	8170069	10.666 ug/l m
15) T SUB C8-C10	16.406	17549056	16.336 ug/l m
16) T SUB C10-C12	19.187	3623195	N.D. ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.898	2915	83.992 ug/l
20) t HEXANE	6.329	52394	9.529 ug/l
21) T FID C5-C6	6.326	154268	34.590 ug/l m
22) T FID C6-C8	8.605f	453903	22.041 ug/l m
23) T FID C8-C10	16.411	591397	46.554 ug/l m
24) T FID C10-C12	19.193	246731	14.034 ug/l m

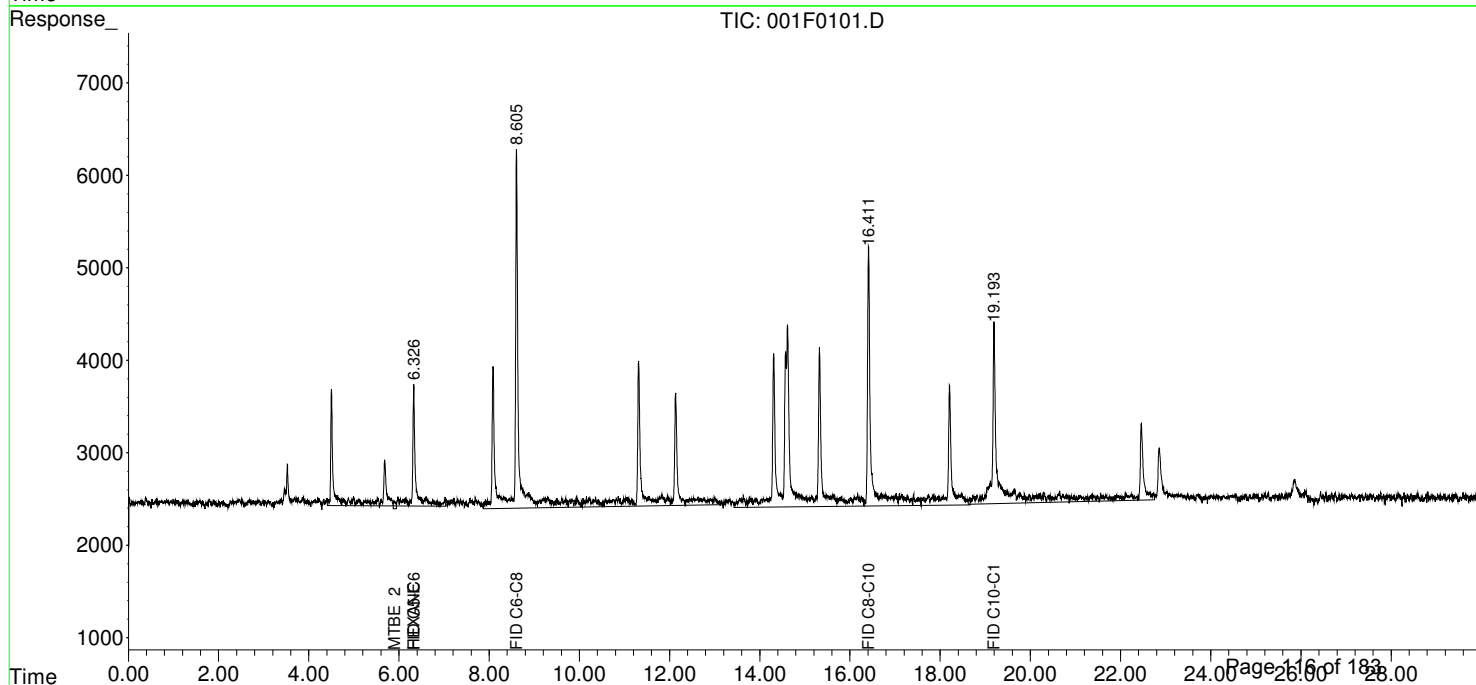
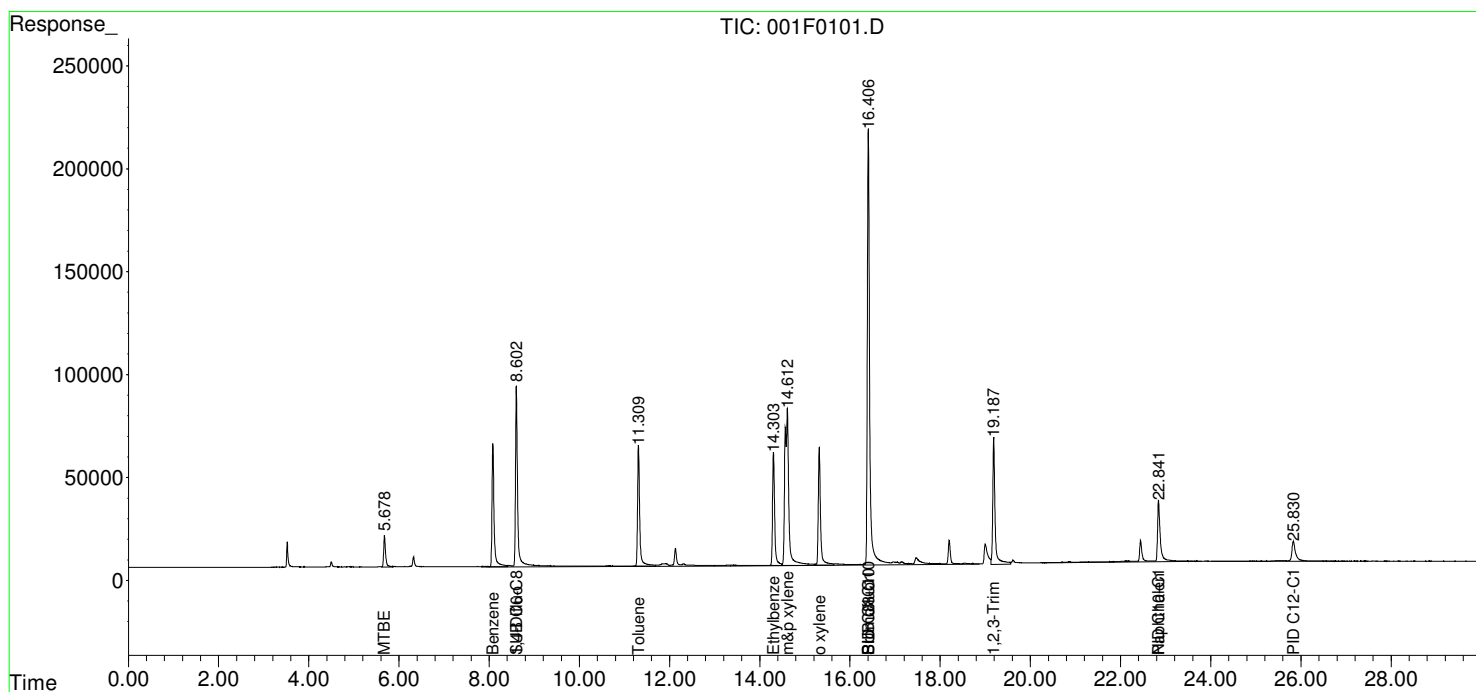
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 15:47:59
 Operator : BC
 Sample : VPH 10 PPB 18064 (Sig #1); CLEANOUT (Sig #2)
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:01 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 22:10:53
 Operator : BC
 Sample : VPH 20 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:09 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.717	2392148	62.269 ug/l
2) S Bromofluorobenzene	16.435	3662562	45.220 ug/l
Target Compounds			
3) t MTBE	5.868f	348330	1366.257 ug/l m
4) t Benzene	8.215	3893258	26.131 ug/l
5) t Toluene	11.382	3646569	25.300 ug/l
6) t Ethylbenzene	14.343	2988127	24.323 ug/l
7) t m&p xylenes	14.649	7544197	47.466 ug/l
8) t o xylene	15.353	3475384	23.134 ug/l
9) t 1,2,3-Trimethylbenzene	19.202	2584514	21.146 ug/l
10) t Naphthalene	22.869	11054	BelowCal ug/l
11) T PID C8-C10	14.648	21569301	148.938 ug/l m
12) T PID C10-C12	22.869	115582	BelowCal ug/l m
13) T PID C12-C13	26.473	74910	BelowCal ug/l m
14) T SUB C6-C8	11.380	10920845	81.668 ug/l m
15) T SUB C8-C10	14.648	18629098	112.186 ug/l m
16) T SUB C10-C12	19.200	3182248	15.804 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.878	28969	160.057 ug/l
20) t HEXANE	6.501	72396	97.693 ug/l
21) T FID C5-C6	6.499	150903	121.356 ug/l m
22) T FID C6-C8	8.721f	495355	135.337 ug/l m
23) T FID C8-C10	14.655	712168	170.653 ug/l m
24) T FID C10-C12	19.208	179775	BelowCal ug/l m

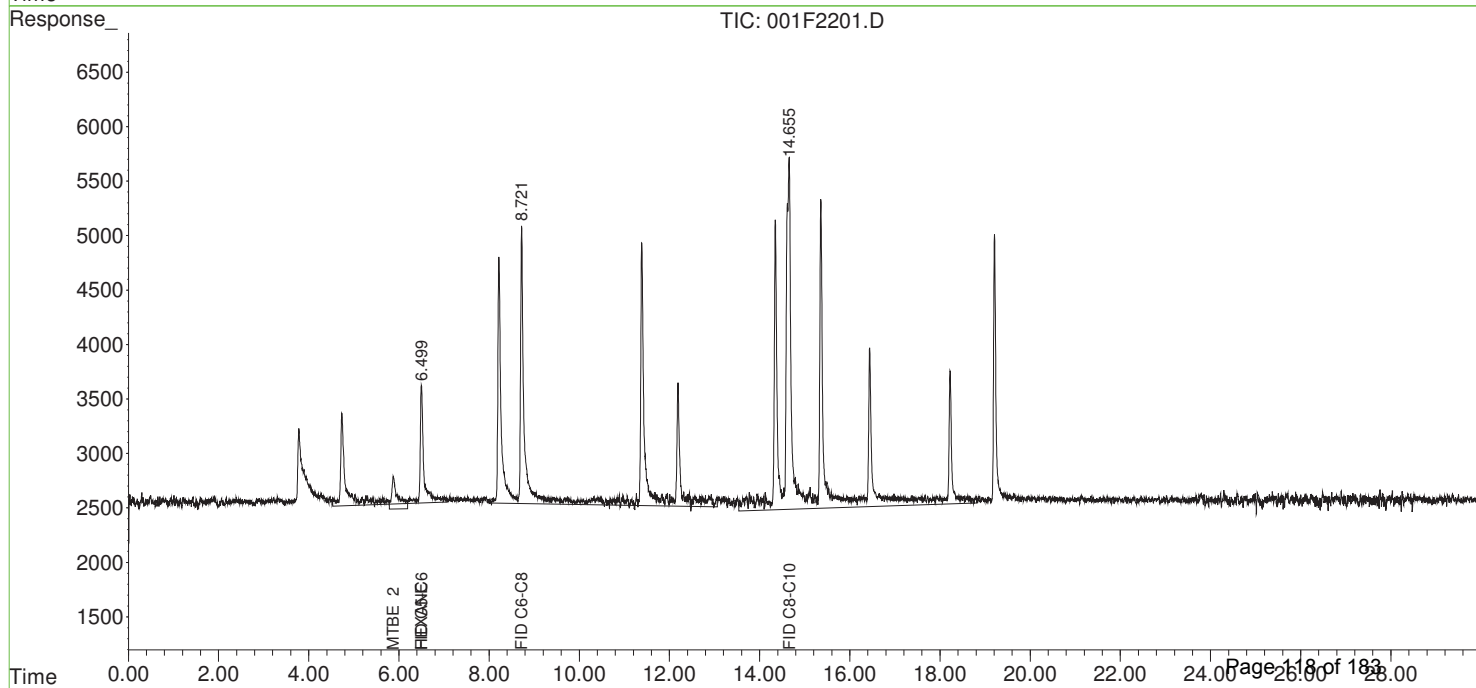
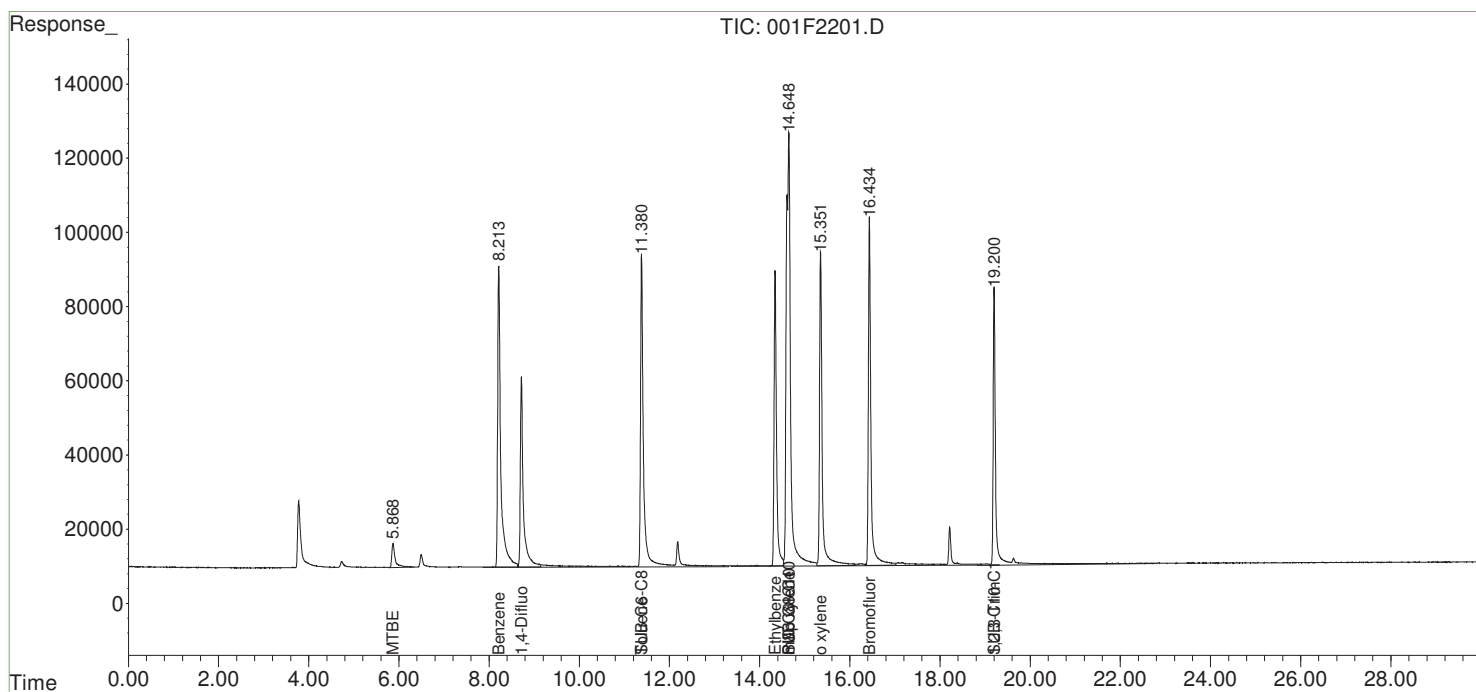
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 22:10:53
 Operator : BC
 Sample : VPH 20 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:09 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 16:23:58
 Operator : BC
 Sample : VPH 20 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:26 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.603	2902939	51.563 ug/l
2) S Bromofluorobenzene	16.409	8047781	51.554 ug/l
Target Compounds			
3) t MTBE	5.673	917358	21.528 ug/l
4) t Benzene	8.081	4244604	23.182 ug/l
5) t Toluene	11.312	4232389	24.296 ug/l
6) t Ethylbenzene	14.306	3861324	21.419 ug/l
7) t m&p xylenes	14.614	9331579	36.106 ug/l m
8) t o xylene	15.322	4352538	19.279 ug/l
9) t 1,2,3-Trimethylbenzene	19.189	4362647	21.913 ug/l
10) t Naphthalene	22.841	2476478	27.890 ug/l m
11) T PID C8-C10	16.407	33228147	90.816 ug/l m
12) T PID C10-C12	22.841f	3361977	25.398 ug/l m
13) T PID C12-C13	25.830f	1325445	32.619 ug/l m
14) T SUB C6-C8	8.080f	12841019	37.722 ug/l m
15) T SUB C8-C10	16.407	27512716	64.313 ug/l m
16) T SUB C10-C12	19.187	6249919	15.101 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.869	2489	83.716 ug/l
20) t HEXANE	6.325	94933	20.815 ug/l
21) T FID C5-C6	6.323	298495	83.736 ug/l m
22) T FID C6-C8	8.605f	674992	71.908 ug/l m
23) T FID C8-C10	14.619	886662	101.773 ug/l m
24) T FID C10-C12	19.194	475396	83.819 ug/l m

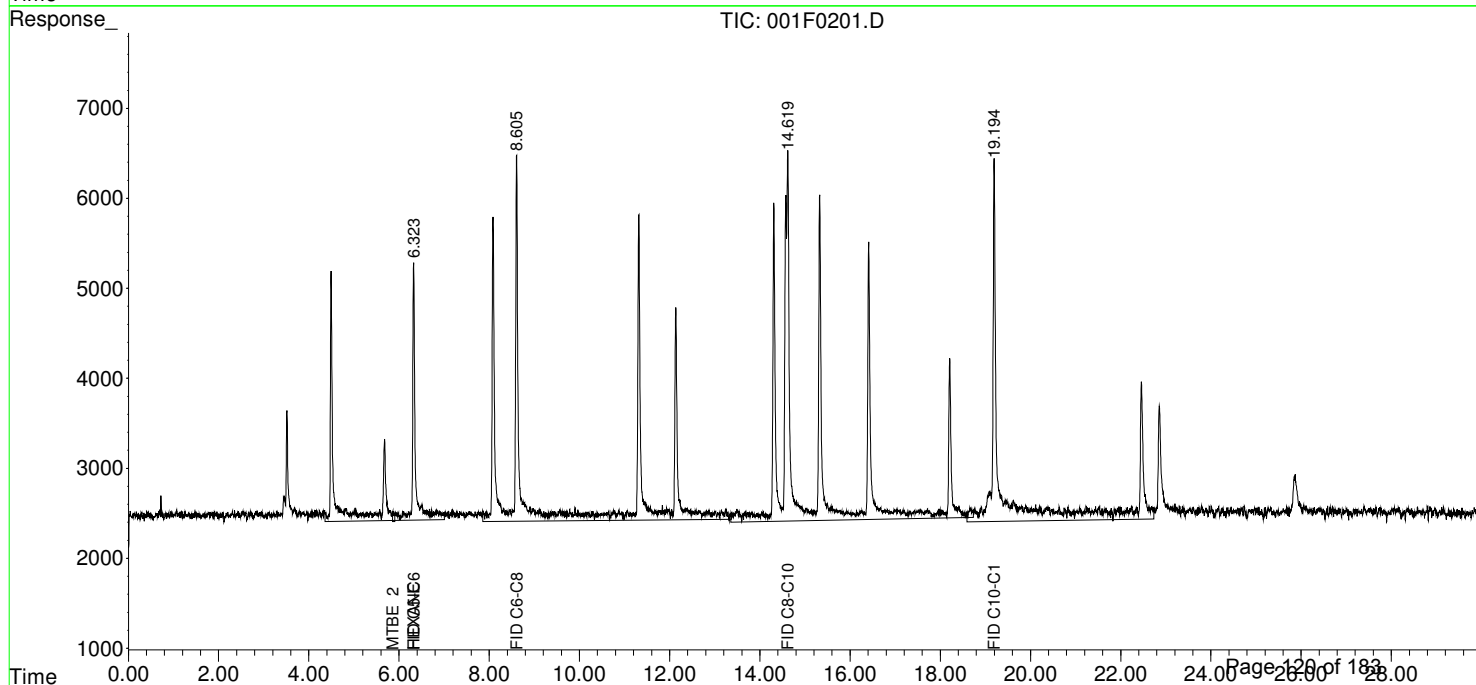
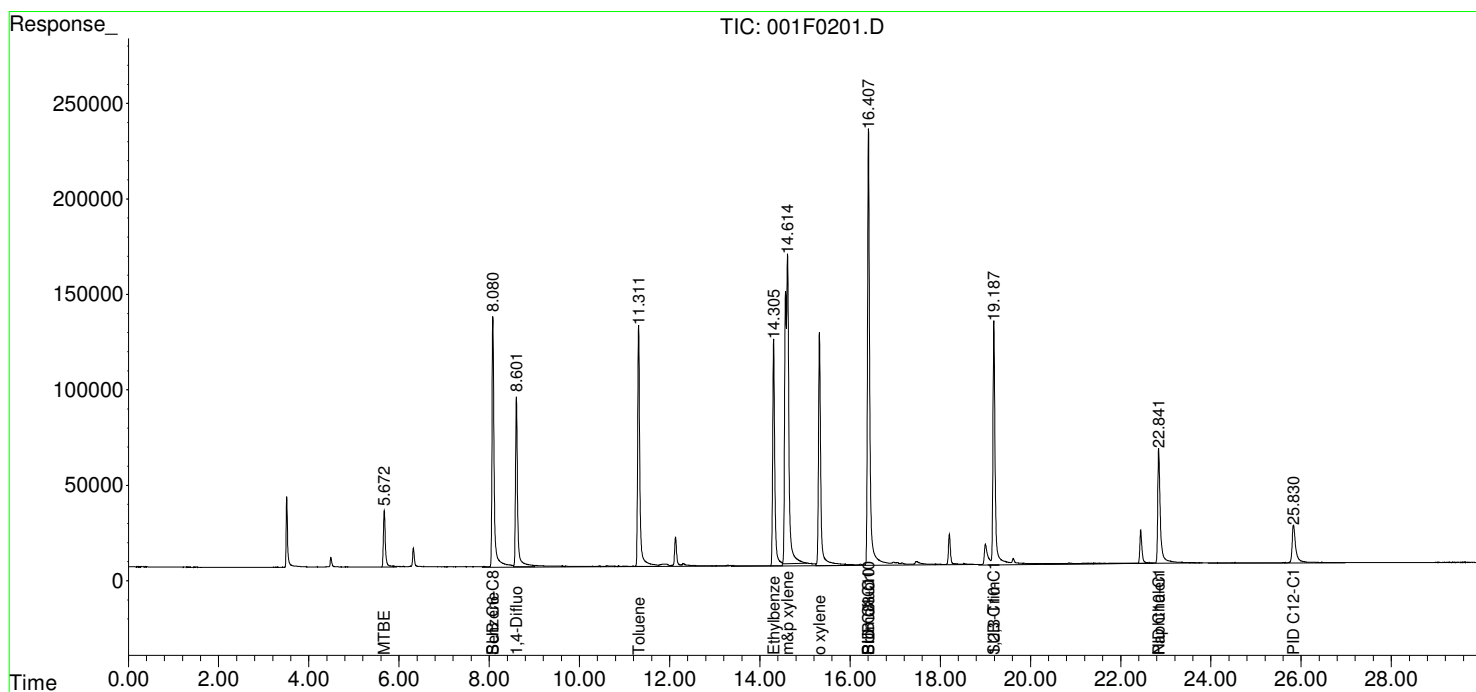
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 16:23:58
 Operator : BC
 Sample : VPH 20 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:26 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 22:46:19
 Operator : BC
 Sample : VPH 50 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:18 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.718	2254073	58.675 ug/l
2) S Bromofluorobenzene	16.436	4331517	53.479 ug/l
Target Compounds			
3) t MTBE	5.868f	477995	103.163 ug/l m
4) t Benzene	8.216	7728166	51.871 ug/l
5) t Toluene	11.383	7590334	52.663 ug/l
6) t Ethylbenzene	14.345	6665807	54.259 ug/l
7) t m&p xylenes	14.649	17653586	111.071 ug/l
8) t o xylene	15.355	8370216	55.717 ug/l
9) t 1,2,3-Trimethylbenzene	19.203	7060279	57.765 ug/l
10) t Naphthalene	22.865	27163	45.490 ug/l
11) T PID C8-C10	14.648	46983978	266.149 ug/l m
12) T PID C10-C12	20.168f	181666	25.350 ug/l m
13) T PID C12-C13	26.724	100280	181.295 ug/l m
14) T SUB C6-C8	11.382	19292063	128.677 ug/l m
15) T SUB C8-C10	14.648	40921788	208.161 ug/l m
16) T SUB C10-C12	19.202	7641872	56.214 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.873	23031	N.D. ug/l
20) t HEXANE	0.000	0	N.D. ug/l d
21) T FID C5-C6	6.499	300711	230.175 ug/l m
22) T FID C6-C8	11.385	801912	206.716 ug/l m
23) T FID C8-C10	14.652	1311134	271.167 ug/l m
24) T FID C10-C12	19.208	375865	79.266 ug/l m

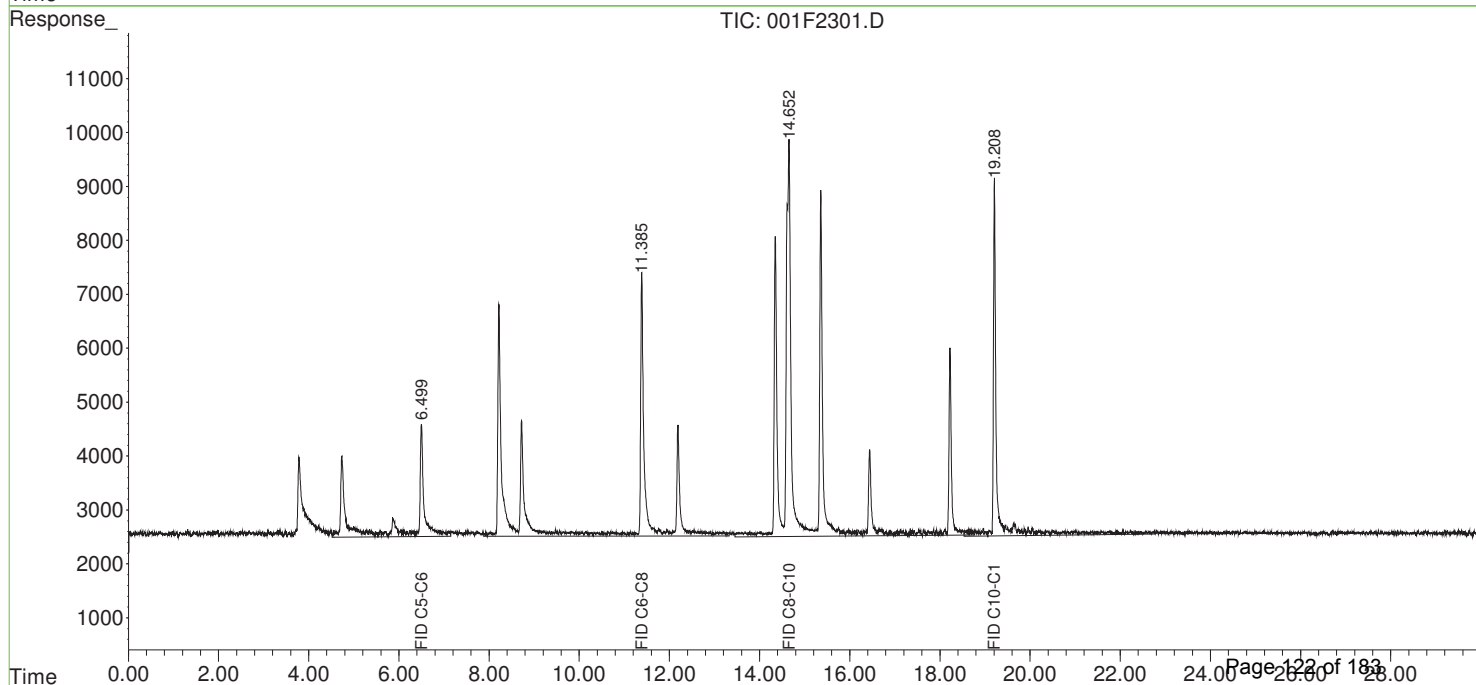
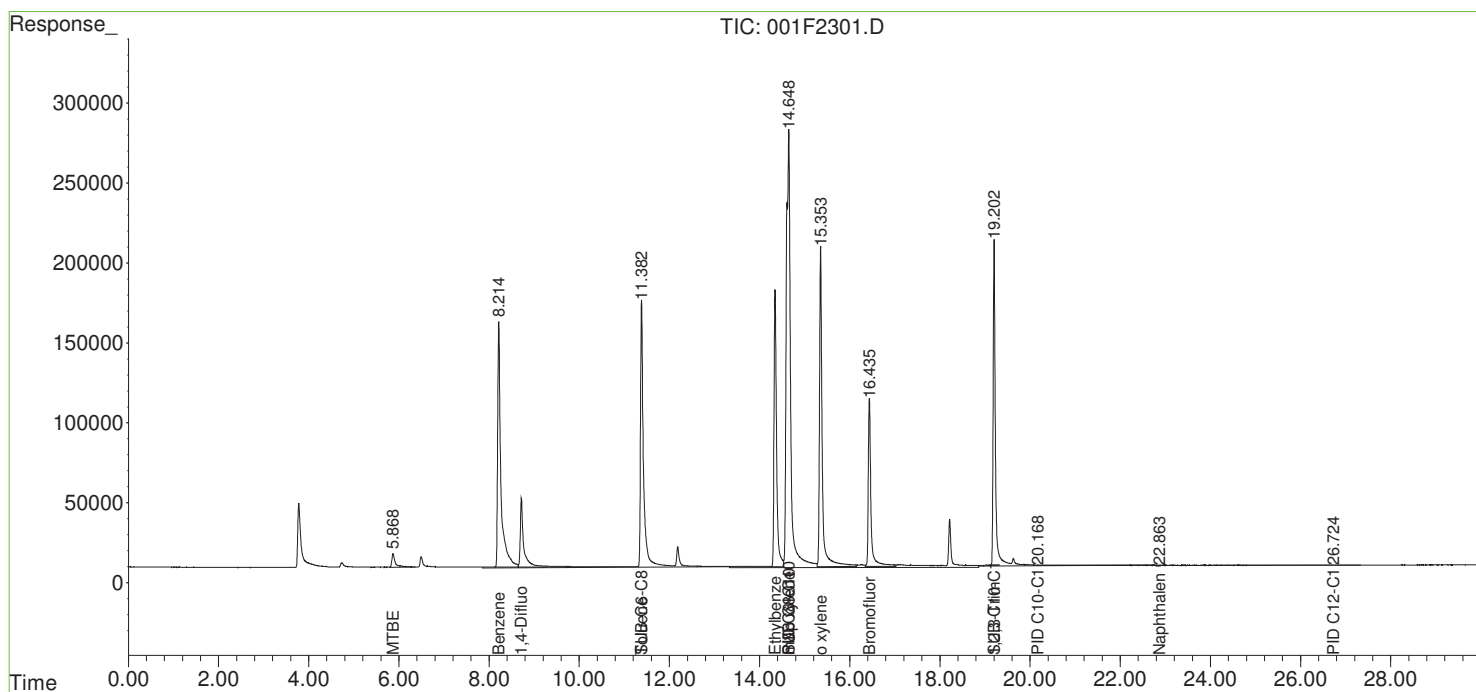
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 22:46:19
 Operator : BC
 Sample : VPH 50 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:18 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 17:00:02
 Operator : BC
 Sample : VPH 50 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:35 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.603	2902128	51.548 ug/l
2) S Bromofluorobenzene	16.410	7912058	50.684 ug/l
Target Compounds			
3) t MTBE	5.674	1795664	49.598 ug/l
4) t Benzene	8.083	9440952	51.562 ug/l
5) t Toluene	11.314	8646347	49.634 ug/l
6) t Ethylbenzene	14.308	7603244	50.186 ug/l
7) t m&p xylenes	14.616	18394622	95.990 ug/l m
8) t o xylene	15.323	8504156	50.107 ug/l
9) t 1,2,3-Trimethylbenzene	19.191	8190144	50.866 ug/l
10) t Naphthalene	22.844	5279135	55.877 ug/l
11) T PID C8-C10	14.616	55311501	202.984 ug/l m
12) T PID C10-C12	22.842f	7058713	58.839 ug/l m
13) T PID C12-C13	25.831f	2593174	58.772 ug/l m
14) T SUB C6-C8	8.081f	24101715	102.949 ug/l m
15) T SUB C8-C10	14.616	46480552	155.648 ug/l m
16) T SUB C10-C12	19.189	11140073	47.027 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.878	5051	85.373 ug/l
20) t HEXANE	6.325	219049	53.743 ug/l
21) T FID C5-C6	6.323	538701	165.587 ug/l m
22) T FID C6-C8	8.084f	1064112	159.673 ug/l m
23) T FID C8-C10	14.620	1450962	207.305 ug/l m
24) T FID C10-C12	19.195	568465	112.222 ug/l m

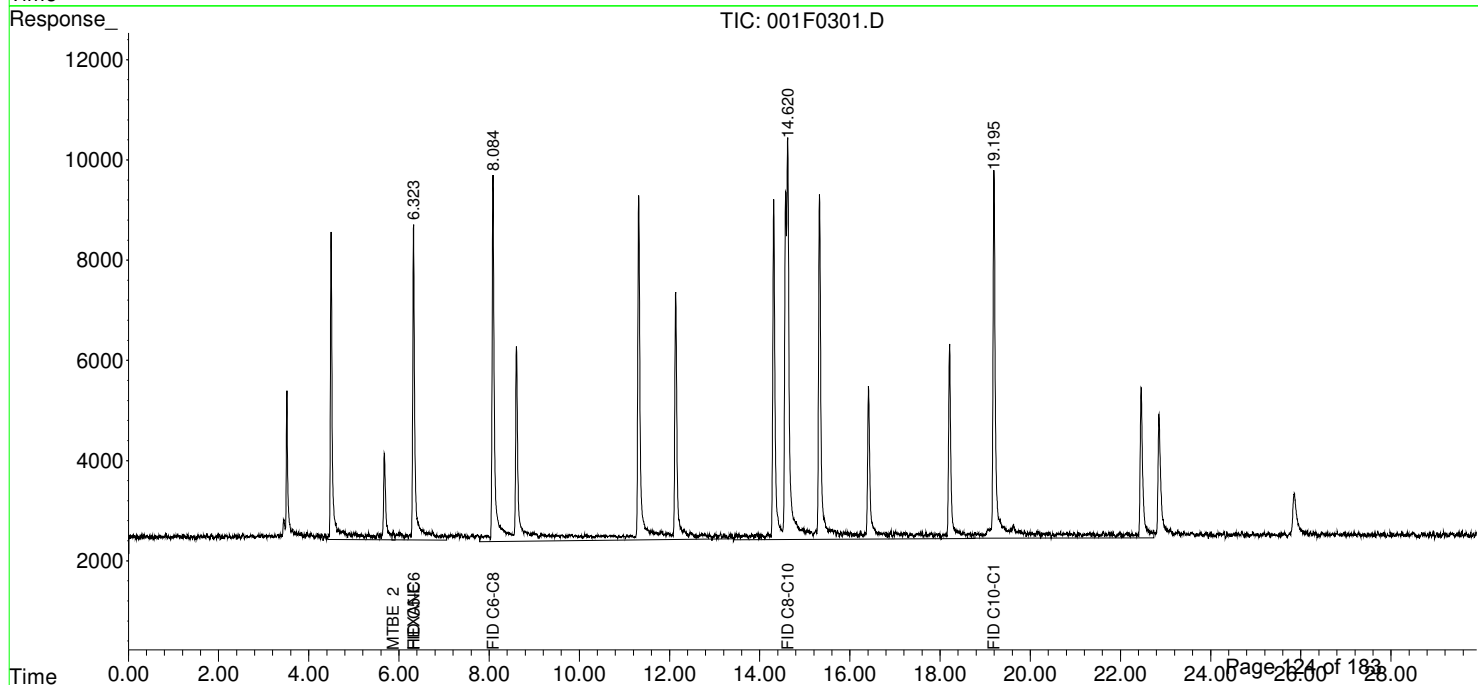
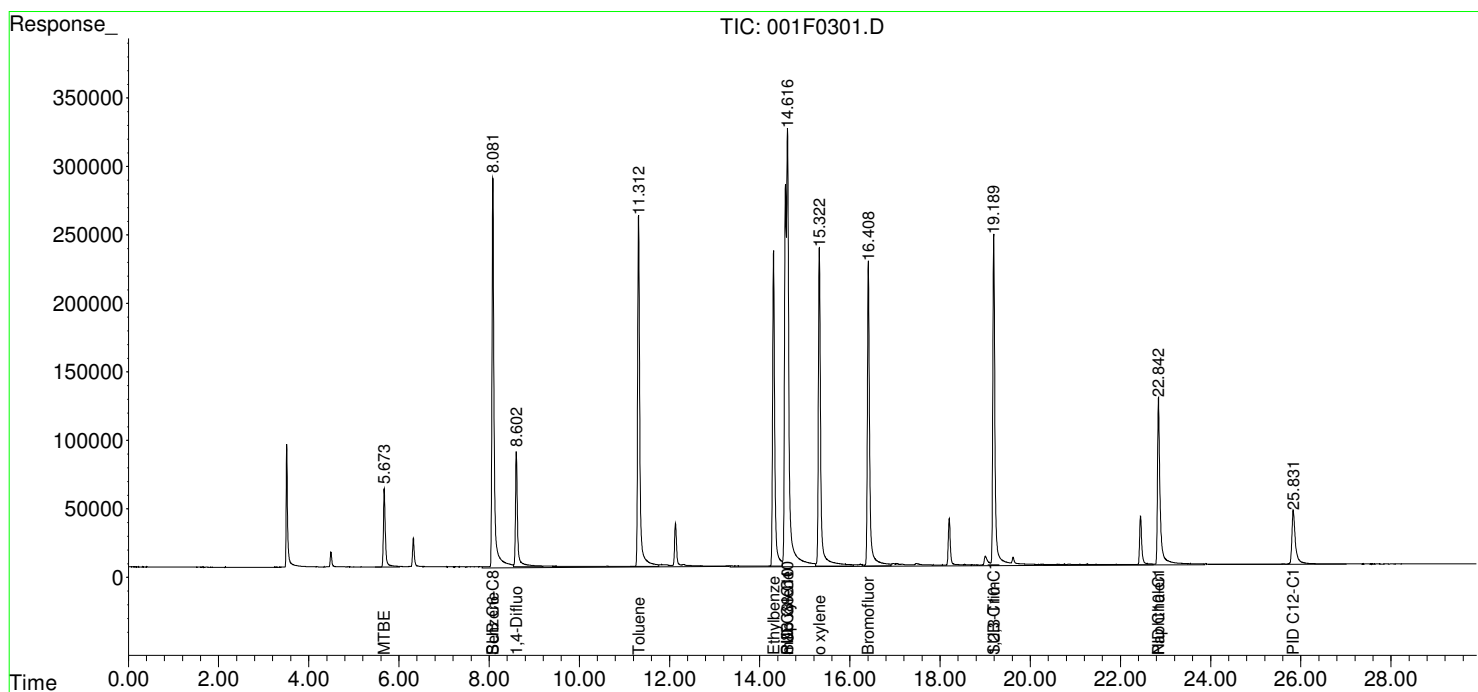
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 17:00:02
 Operator : BC
 Sample : VPH 50 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:35 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 23:21:59
 Operator : BC
 Sample : VPH 100 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:29 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.721	1574721	40.991 ug/l m
2) S Bromofluorobenzene	16.437	4132520	51.022 ug/l
Target Compounds			
3) t MTBE	5.877f	508293	138.434 ug/l m
4) t Benzene	8.220	12720467	85.378 ug/l m
5) t Toluene	11.386	12290046	85.270 ug/l
6) t Ethylbenzene	14.347	10657588	86.752 ug/l
7) t m&p xylenes	14.651	28483412	179.208 ug/l
8) t o xylene	15.357	13616576	90.640 ug/l
9) t 1,2,3-Trimethylbenzene	19.205	11958267	97.838 ug/l
10) t Naphthalene	22.908	38144	22.112 ug/l m
11) T PID C8-C10	14.650	72978121	386.034 ug/l m
12) T PID C10-C12	20.352f	232822	225.028 ug/l m
13) T PID C12-C13	26.450	97054	55.403 ug/l m
14) T SUB C6-C8	11.384	29334028	185.067 ug/l m
15) T SUB C8-C10	14.650	60096421	290.712 ug/l m
16) T SUB C10-C12	19.203	13501433	107.242 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.889	31822	263.980 ug/l
20) t HEXANE	6.509	194736	152.451 ug/l
21) T FID C5-C6	6.507	378442	286.637 ug/l m
22) T FID C6-C8	11.388	1209428	301.603 ug/l m
23) T FID C8-C10	14.655	1985282	384.297 ug/l m
24) T FID C10-C12	19.209	527537	189.379 ug/l m

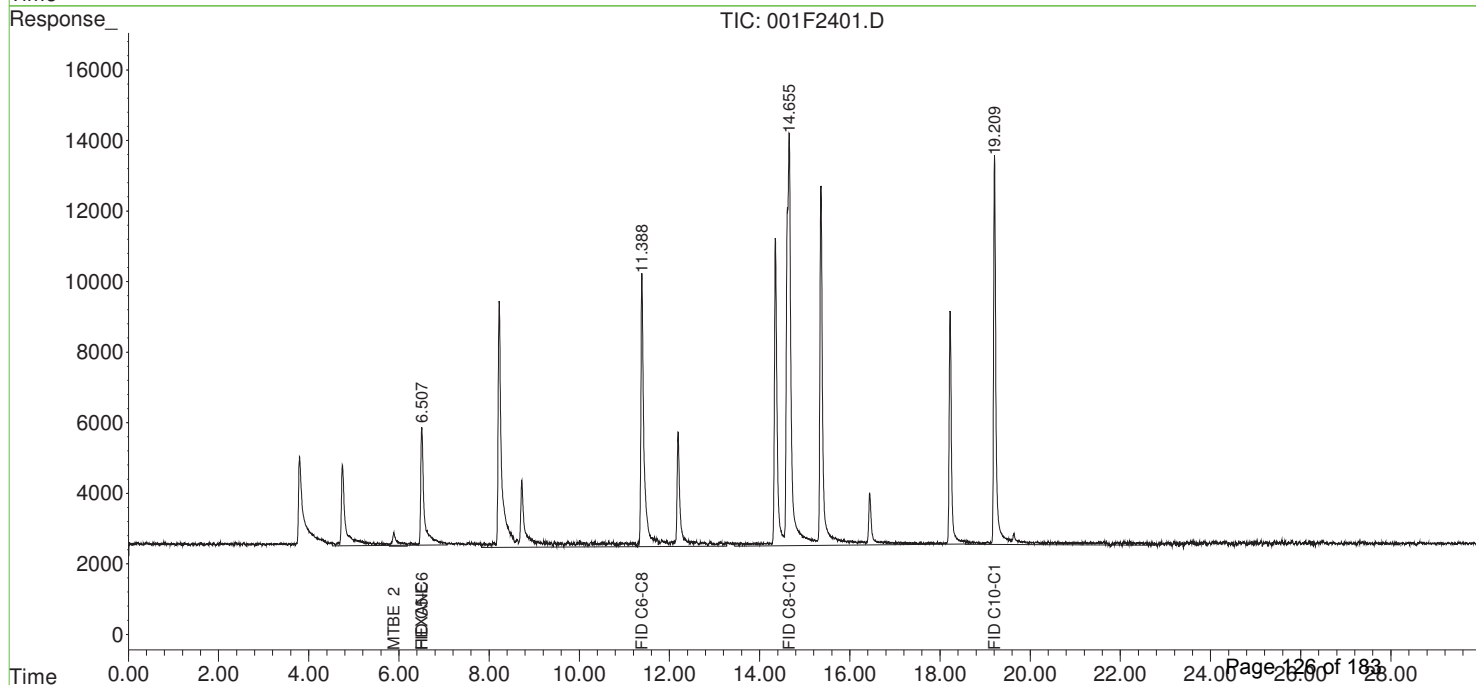
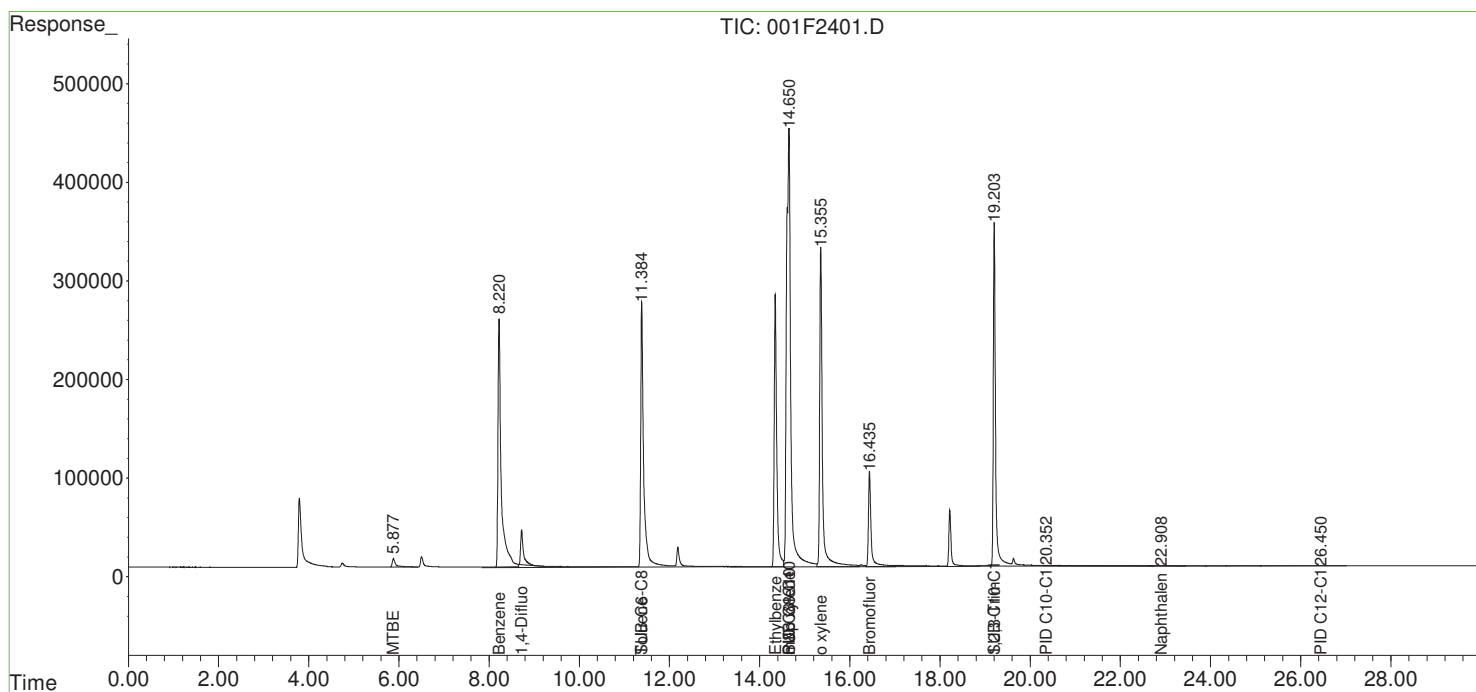
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 23:21:59
 Operator : BC
 Sample : VPH 100 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:29 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 17:36:12
 Operator : BC
 Sample : VPH 100 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:43 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.602	2495670	44.329 ug/l m
2) S Bromofluorobenzene	16.410	7817498	50.079 ug/l
Target Compounds			
3) t MTBE	5.675	3444627	99.684 ug/l
4) t Benzene	8.083	18569772	101.420 ug/l
5) t Toluene	11.314	17254371	99.047 ug/l
6) t Ethylbenzene	14.309	14770146	105.284 ug/l
7) t m&p xylenes	14.616	34311573	201.160 ug/l m
8) t o xylene	15.323	16277366	107.827 ug/l
9) t 1,2,3-Trimethylbenzene	19.190	15083526	103.012 ug/l
10) t Naphthalene	22.845	9690743	99.931 ug/l
11) T PID C8-C10	14.616	98175495	420.703 ug/l m
12) T PID C10-C12	22.843f	11881701	102.467 ug/l m
13) T PID C12-C13	25.831f	4451573	97.110 ug/l m
14) T SUB C6-C8	8.082f	43487348	215.240 ug/l m
15) T SUB C8-C10	14.616	78862004	311.572 ug/l m
16) T SUB C10-C12	19.188	20416335	107.590 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.898	6792	86.498 ug/l
20) t HEXANE	6.325	398970	101.477 ug/l
21) T FID C5-C6	6.323	979084	315.651 ug/l m
22) T FID C6-C8	8.085f	1591309	278.581 ug/l m
23) T FID C8-C10	14.620	2470742	398.019 ug/l m
24) T FID C10-C12	19.195	913013	217.372 ug/l m

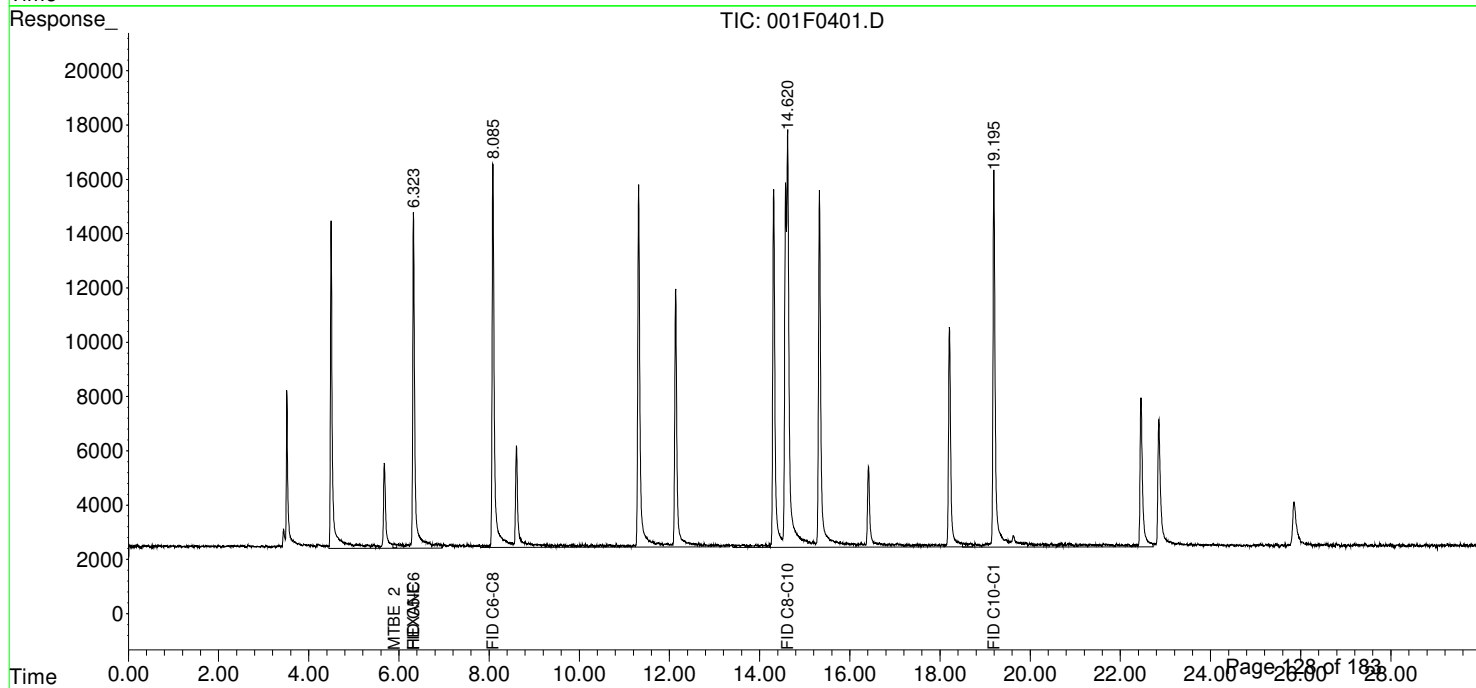
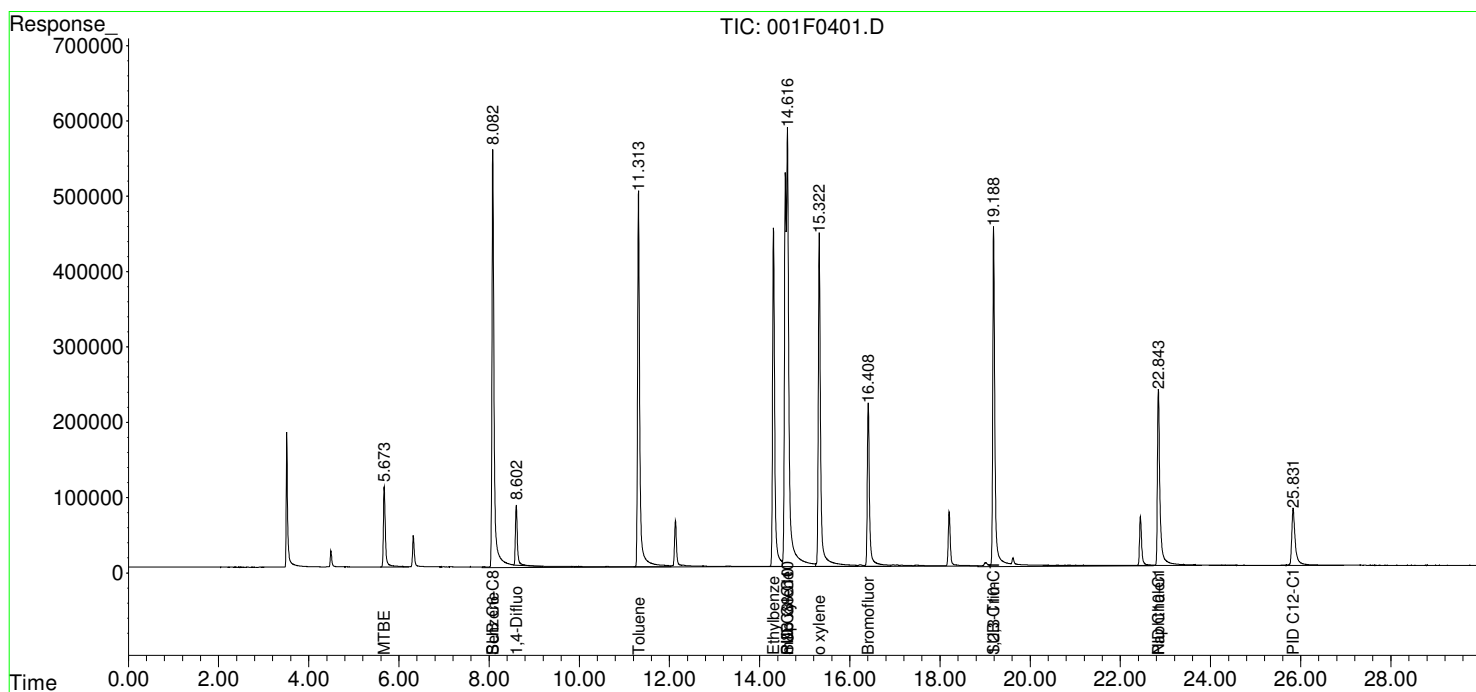
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 17:36:12
 Operator : BC
 Sample : VPH 100 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:43 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2501.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 23:58:00
 Operator : BC
 Sample : VPH 200 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:39 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.720	1643007	42.769 ug/l m
2) S Bromofluorobenzene	16.436	4781181	59.031 ug/l
Target Compounds			
3) t MTBE	5.876f	549624	190.723 ug/l m
4) t Benzene	8.220	24154360	162.122 ug/l m
5) t Toluene	11.385	24082820	167.089 ug/l
6) t Ethylbenzene	14.346	20784395	169.183 ug/l
7) t m&p xylenes	14.651	55099098	346.666 ug/l
8) t o xylene	15.356	26241095	174.677 ug/l
9) t 1,2,3-Trimethylbenzene	19.204	23223751	190.008 ug/l
10) t Naphthalene	22.847	273195	273.399 ug/l
11) T PID C8-C10	14.650	138628465	688.811 ug/l m
12) T PID C10-C12	22.446f	391741	294.659 ug/l m
13) T PID C12-C13	24.064f	106152	242.207 ug/l m
14) T SUB C6-C8	11.383	56214860	336.015 ug/l m
15) T SUB C8-C10	14.650	112612921	516.808 ug/l m
16) T SUB C10-C12	19.203	25853125	208.260 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.885	38421	504.430 ug/l
20) t HEXANE	6.510	354383	223.907 ug/l
21) T FID C5-C6	6.507	652645	485.815 ug/l m
22) T FID C6-C8	11.387	1900209	462.445 ug/l m
23) T FID C8-C10	14.654	3686114	669.716 ug/l m
24) T FID C10-C12	19.208	930006	424.074 ug/l m

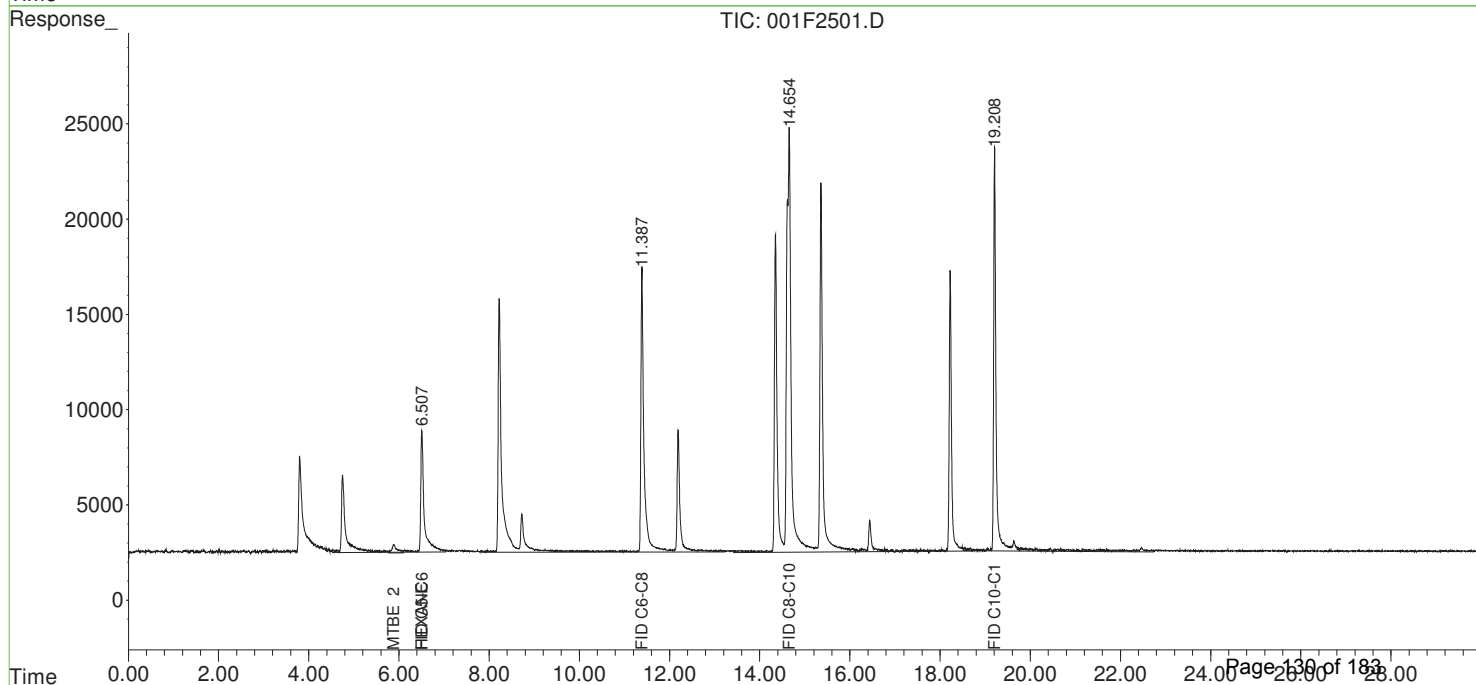
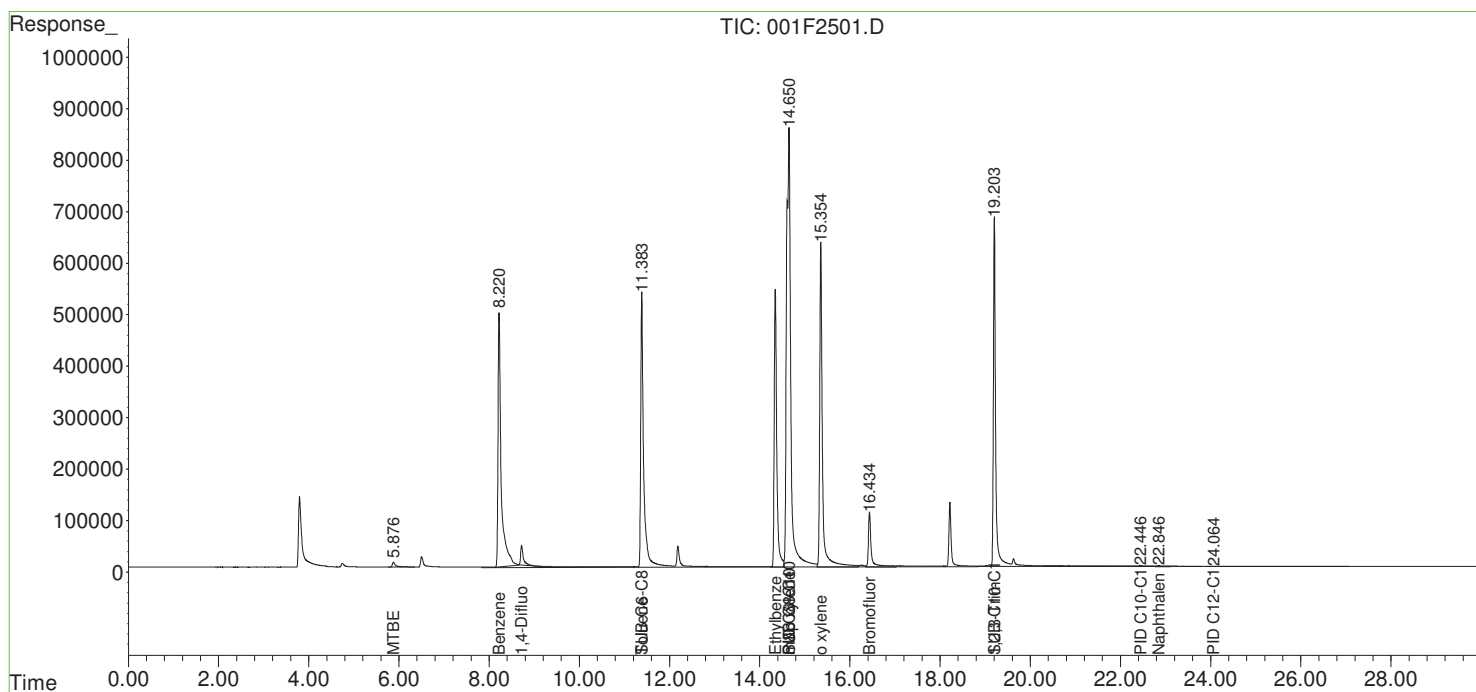
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2501.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 11-Apr-2016, 23:58:00
 Operator : BC
 Sample : VPH 200 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:39 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0601.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 18:47:50
 Operator : BC
 Sample : VPH 200 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:52 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.601	2501390	44.430 ug/l m
2) S Bromofluorobenzene	16.408	7894911	50.574 ug/l
Target Compounds			
3) t MTBE	5.675	7223077	204.199 ug/l
4) t Benzene	8.083	34352533	187.618 ug/l
5) t Toluene	11.314	31938419	183.340 ug/l
6) t Ethylbenzene	14.309	27192575	200.786 ug/l
7) t m&p xylenes	14.618	63698696	395.335 ug/l m
8) t o xylene	15.323	27632897	192.147 ug/l m
9) t 1,2,3-Trimethylbenzene	19.192	27909256	200.034 ug/l
10) t Naphthalene	22.843	18983659	192.728 ug/l
11) T PID C8-C10	14.618	172805278	799.770 ug/l m
12) T PID C10-C12	22.841f	22910876	202.236 ug/l m
13) T PID C12-C13	25.830f	8909810	189.083 ug/l m
14) T SUB C6-C8	8.082f	75583861	401.158 ug/l m
15) T SUB C8-C10	14.618	138333768	597.943 ug/l m
16) T SUB C10-C12	19.190	34091547	196.873 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.680f	227336	229.067 ug/l
20) t HEXANE	6.326	763593	198.213 ug/l
21) T FID C5-C6	6.324	1797275	594.454 ug/l m
22) T FID C6-C8	8.086f	2946164	584.166 ug/l m
23) T FID C8-C10	14.622	4530734	783.268 ug/l m
24) T FID C10-C12	19.196	1588943	423.655 ug/l m

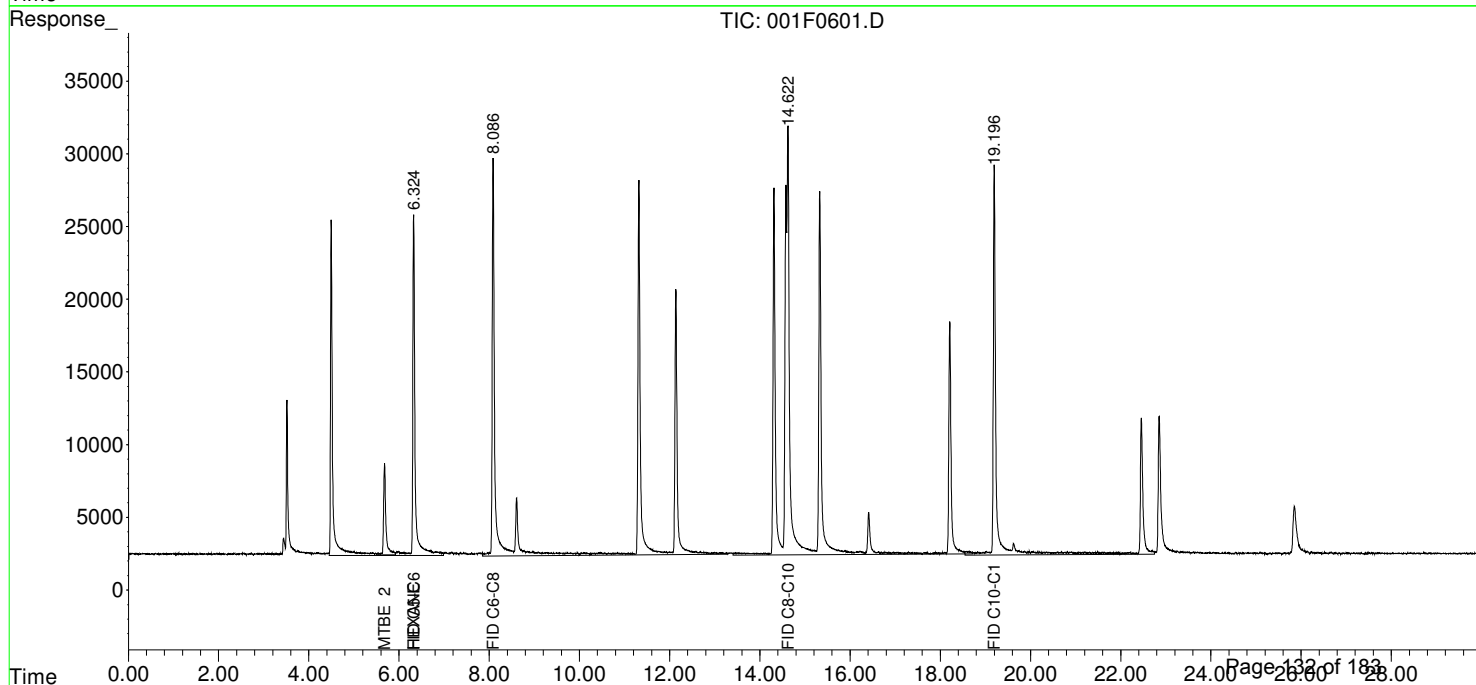
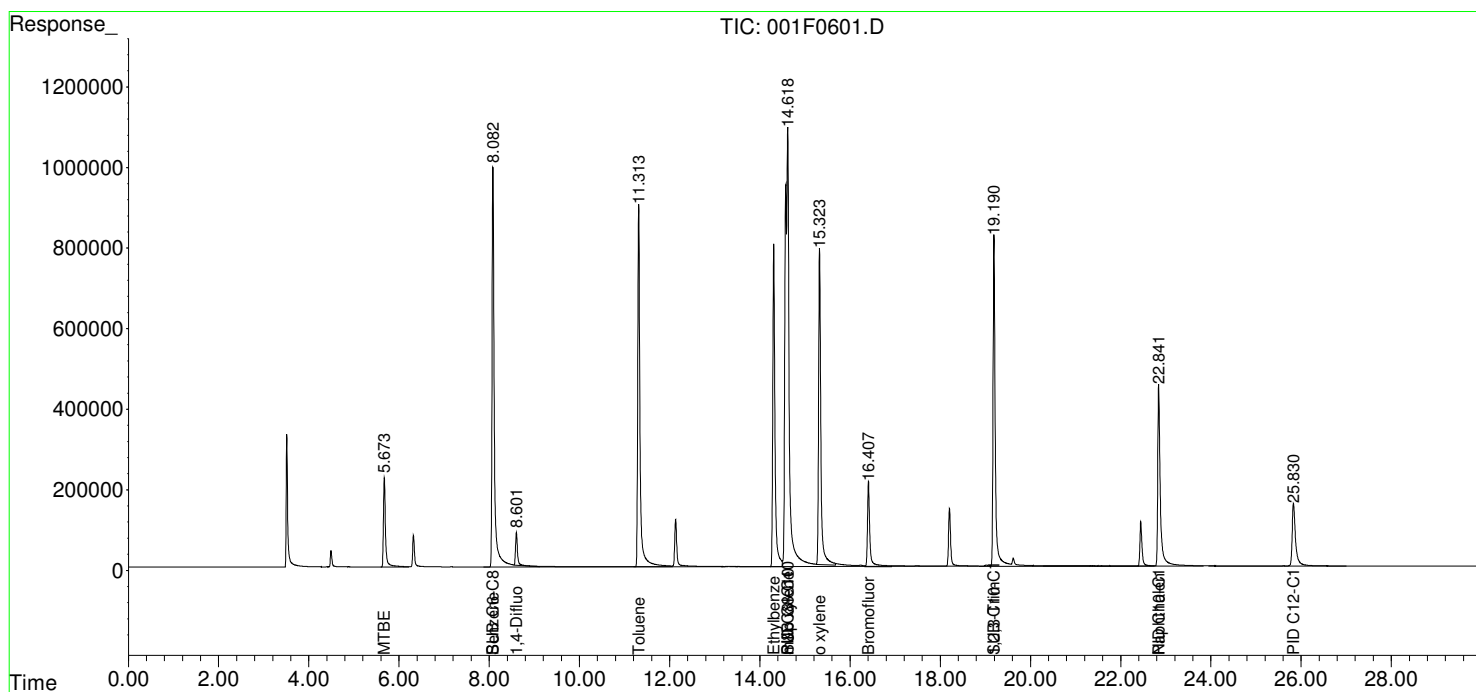
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0601.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 18:47:50
 Operator : BC
 Sample : VPH 200 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:16:52 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2701.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 01:09:21
 Operator : BC
 Sample : VPH 500 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:50 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.716	1910306	49.727 ug/l m
2) S Bromofluorobenzene	16.432	4695025	57.967 ug/l m
Target Compounds			
3) t MTBE	5.867f	634219	321.455 ug/l m
4) t Benzene	8.217	73443161	492.943 ug/l m
5) t Toluene	11.385	73419992	509.396 ug/l
6) t Ethylbenzene	14.347	61956097	504.317 ug/l
7) t m&p xylenes	14.655	158102270	994.728 ug/l
8) t o xylene	15.357	74594755	496.548 ug/l
9) t 1,2,3-Trimethylbenzene	19.206	58098662	475.341 ug/l
10) t Naphthalene	22.848	1067678	483.563 ug/l
11) T PID C8-C10	14.654	383310234	1817.276 ug/l m
12) T PID C10-C12	22.446f	1241549	492.529 ug/l m
13) T PID C12-C13	24.003f	128968	376.217 ug/l m
14) T SUB C6-C8	11.383	161482723	927.143 ug/l m
15) T SUB C8-C10	14.654	313356733	1381.058 ug/l m
16) T SUB C10-C12	19.205	63929743	479.311 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.876	39665	549.774 ug/l
20) t HEXANE	6.332	3616	66.908 ug/l
21) T FID C5-C6	6.501	1903851	1394.678 ug/l m
22) T FID C6-C8	11.387	5655451	1336.823 ug/l m
23) T FID C8-C10	14.658	10488994	1811.320 ug/l m
24) T FID C10-C12	19.210	2614351	1076.226 ug/l m

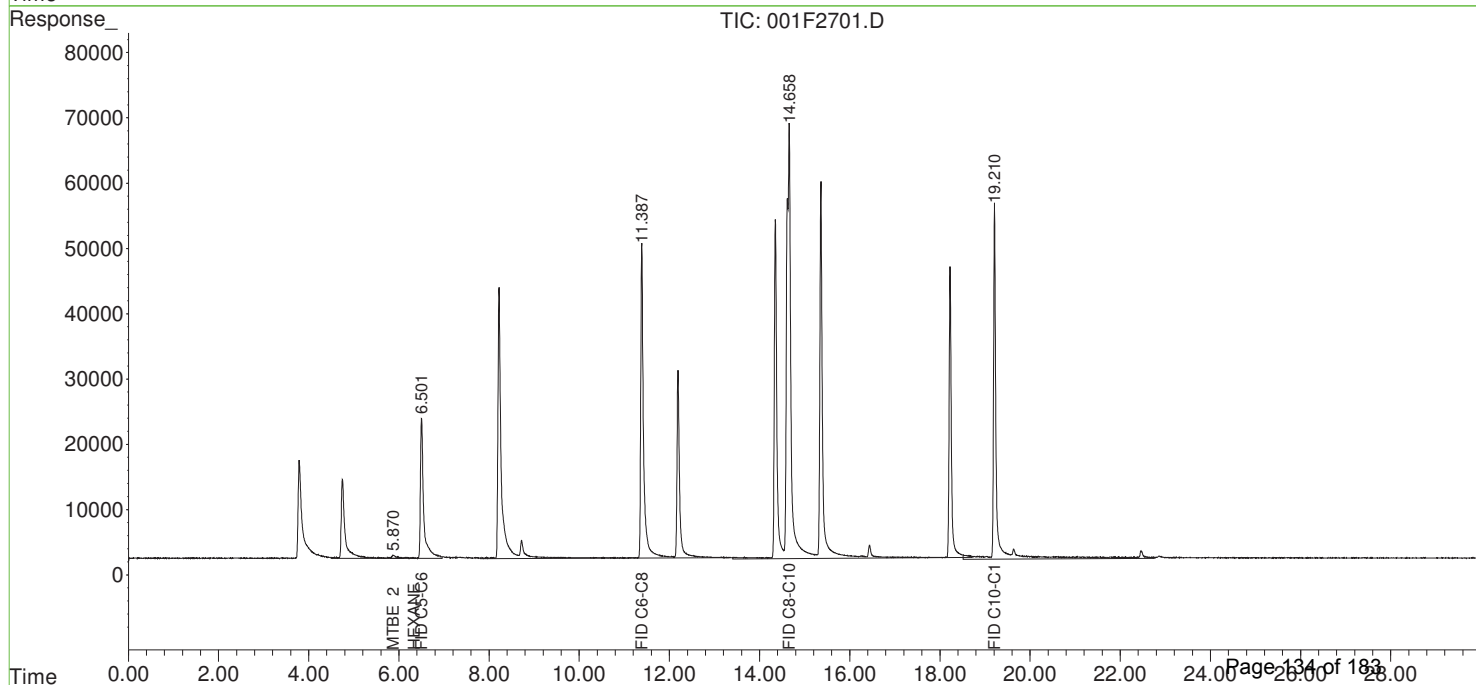
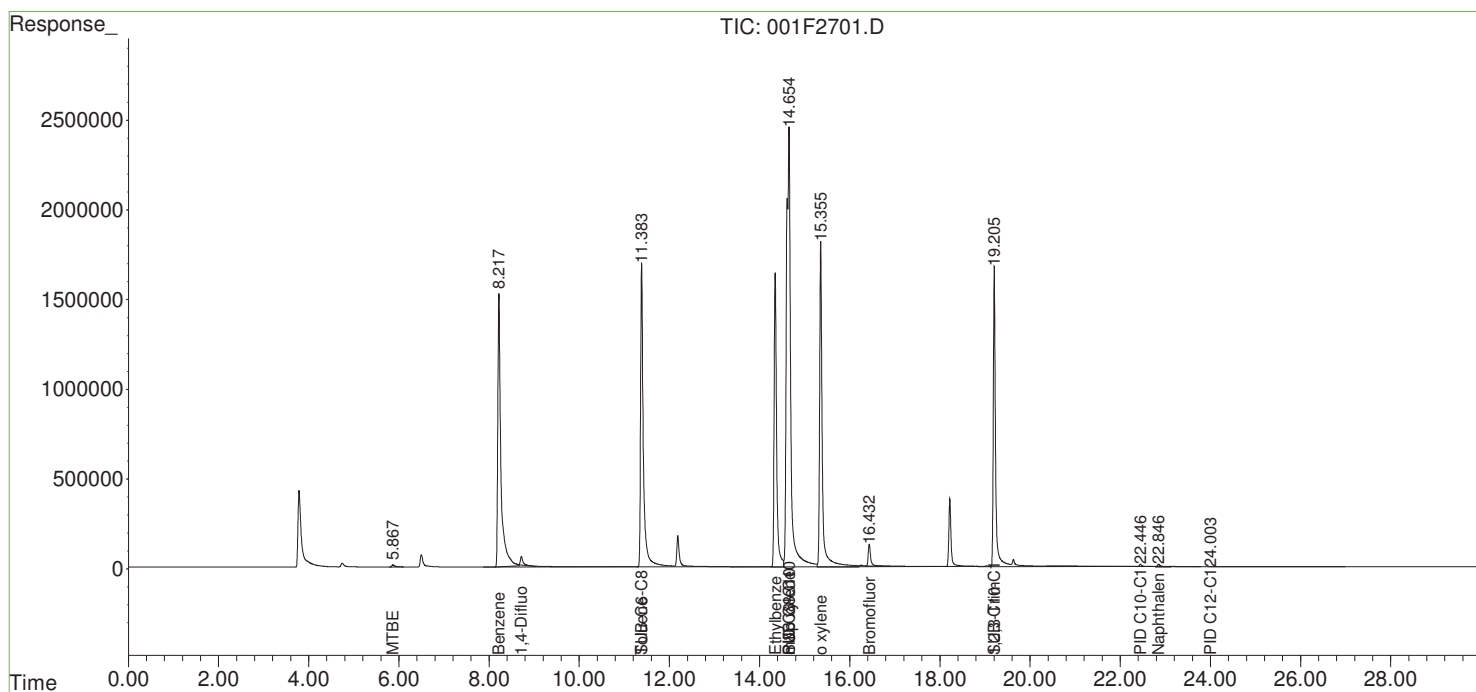
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2701.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 01:09:21
 Operator : BC
 Sample : VPH 500 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:00:50 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0801.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 19:59:56
 Operator : BC
 Sample : VPH 500 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:17:07 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.602	2901407	51.535 ug/l m
2) S Bromofluorobenzene	16.406	7870647	50.419 ug/l m
Target Compounds			
3) t MTBE	5.677	20294744	498.105 ug/l
4) t Benzene	8.087	82355349	449.787 ug/l
5) t Toluene	11.319	76664895	440.088 ug/l
6) t Ethylbenzene	14.313	65470716	495.062 ug/l
7) t m&p xylenes	14.624	154823404	997.440 ug/l m
8) t o xylene	15.328	66797469	482.963 ug/l m
9) t 1,2,3-Trimethylbenzene	19.197	67199400	497.248 ug/l
10) t Naphthalene	22.846	47027093	472.765 ug/l
11) T PID C8-C10	14.624	405734849	1982.889 ug/l m
12) T PID C10-C12	22.844f	52988037	474.312 ug/l m
13) T PID C12-C13	25.831f	22327851	465.894 ug/l m
14) T SUB C6-C8	8.085f	176022301	982.945 ug/l m
15) T SUB C8-C10	14.624	322288648	1483.729 ug/l m
16) T SUB C10-C12	19.195	79438418	492.932 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.978f	51054	115.111 ug/l
20) t HEXANE	6.327	1872560	492.426 ug/l
21) T FID C5-C6	6.325	4074936	1370.582 ug/l m
22) T FID C6-C8	8.088f	6865037	1468.059 ug/l m
23) T FID C8-C10	14.628	10556716	1910.214 ug/l m
24) T FID C10-C12	19.200	3335620	956.712 ug/l m

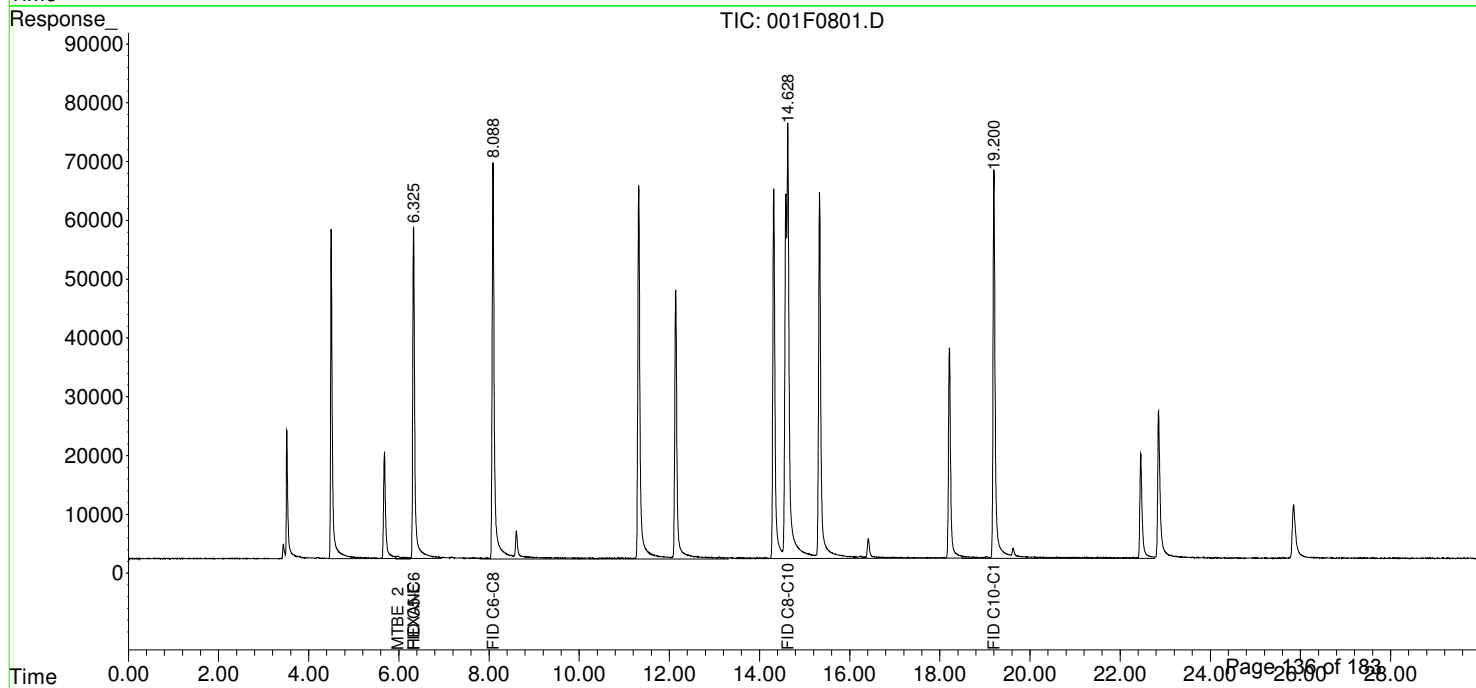
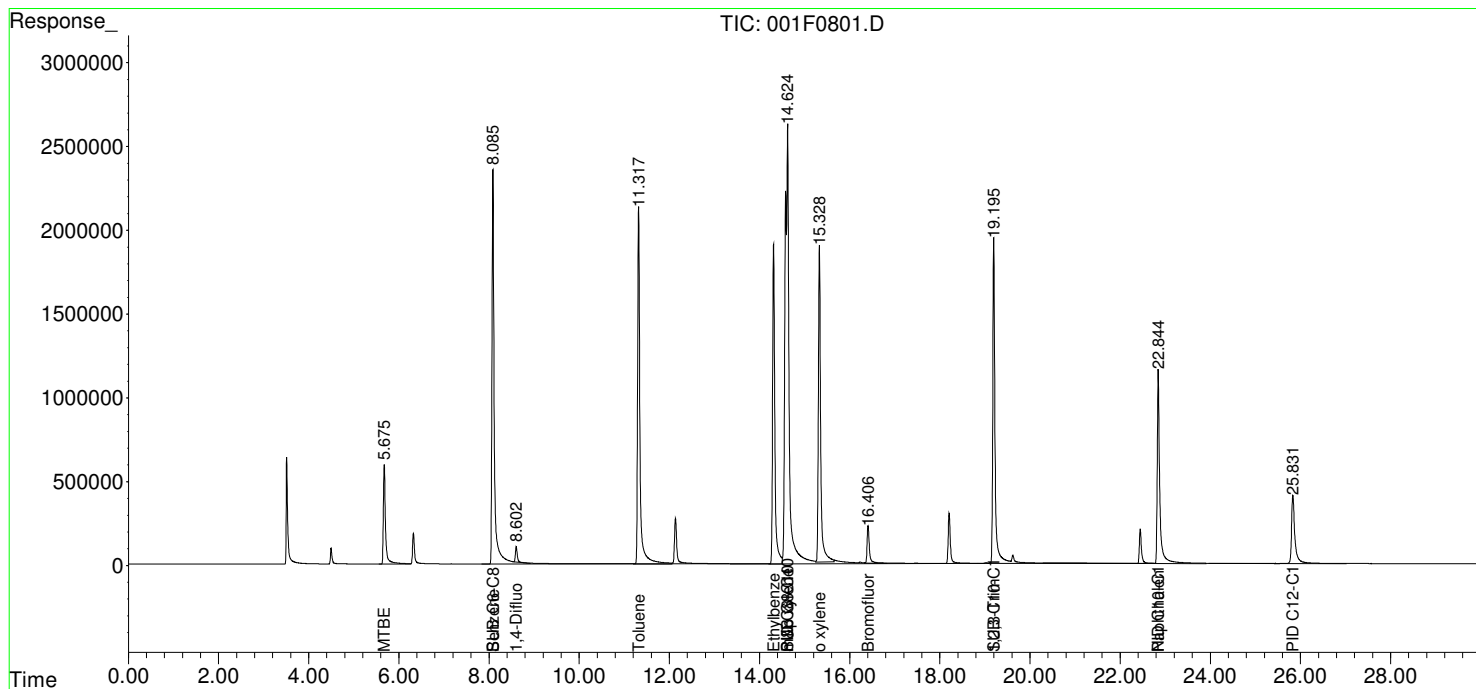
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F0801.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 19:59:56
 Operator : BC
 Sample : VPH 500 PPB
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:17:07 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2901.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 02:20:22
 Operator : BC
 Sample : VPH 1000 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:01:03 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.717	1719249	44.753 ug/l m
2) S Bromofluorobenzene	16.432	4872013	60.152 ug/l m
Target Compounds			
3) t MTBE	5.868f	631621	316.718 ug/l m
4) t Benzene	8.222	164759934	1105.851 ug/l
5) t Toluene	11.387	162567086	1127.909 ug/l
6) t Ethylbenzene	14.352	138933436	1130.907 ug/l
7) t m&p xylenes	14.663	353290577	2222.789 ug/l
8) t o xylene	15.363	165931517	1104.540 ug/l
9) t 1,2,3-Trimethylbenzene	19.215	143718908	1175.854 ug/l
10) t Naphthalene	22.848	5348936	1001.355 ug/l
11) T PID C8-C10	14.662	874064714	4080.620 ug/l m
12) T PID C10-C12	22.846f	6602142	1035.669 ug/l m
13) T PID C12-C13	25.833f	399450	978.358 ug/l m
14) T SUB C6-C8	11.386	358143377	2031.485 ug/l m
15) T SUB C8-C10	14.662	696688675	3031.393 ug/l m
16) T SUB C10-C12	19.213	155031283	989.148 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.876	49412	904.912 ug/l
20) t HEXANE	6.507	2543114	1203.555 ug/l
21) T FID C5-C6	6.504	4166399	3038.168 ug/l m
22) T FID C6-C8	11.389	12998611	3046.619 ug/l m
23) T FID C8-C10	14.666	24151975	4104.128 ug/l m
24) T FID C10-C12	19.218	5583444	1826.844 ug/l m

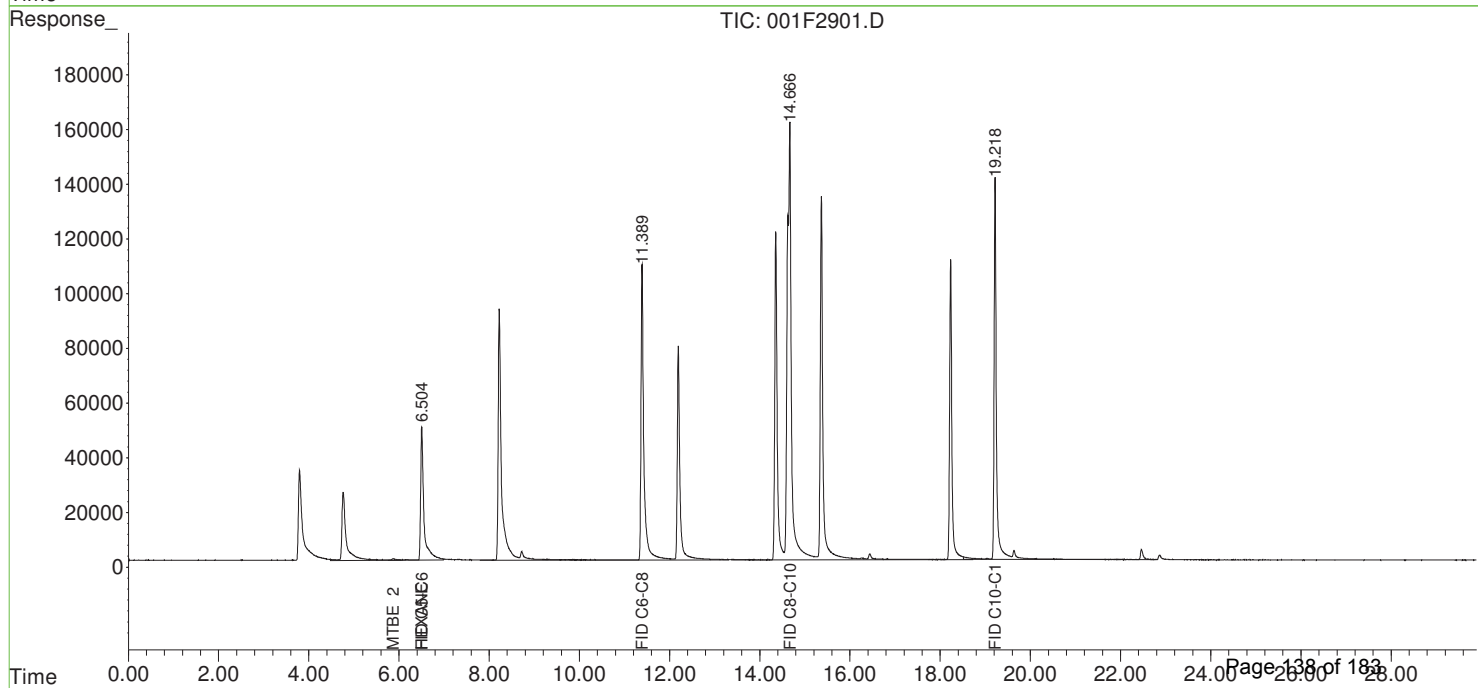
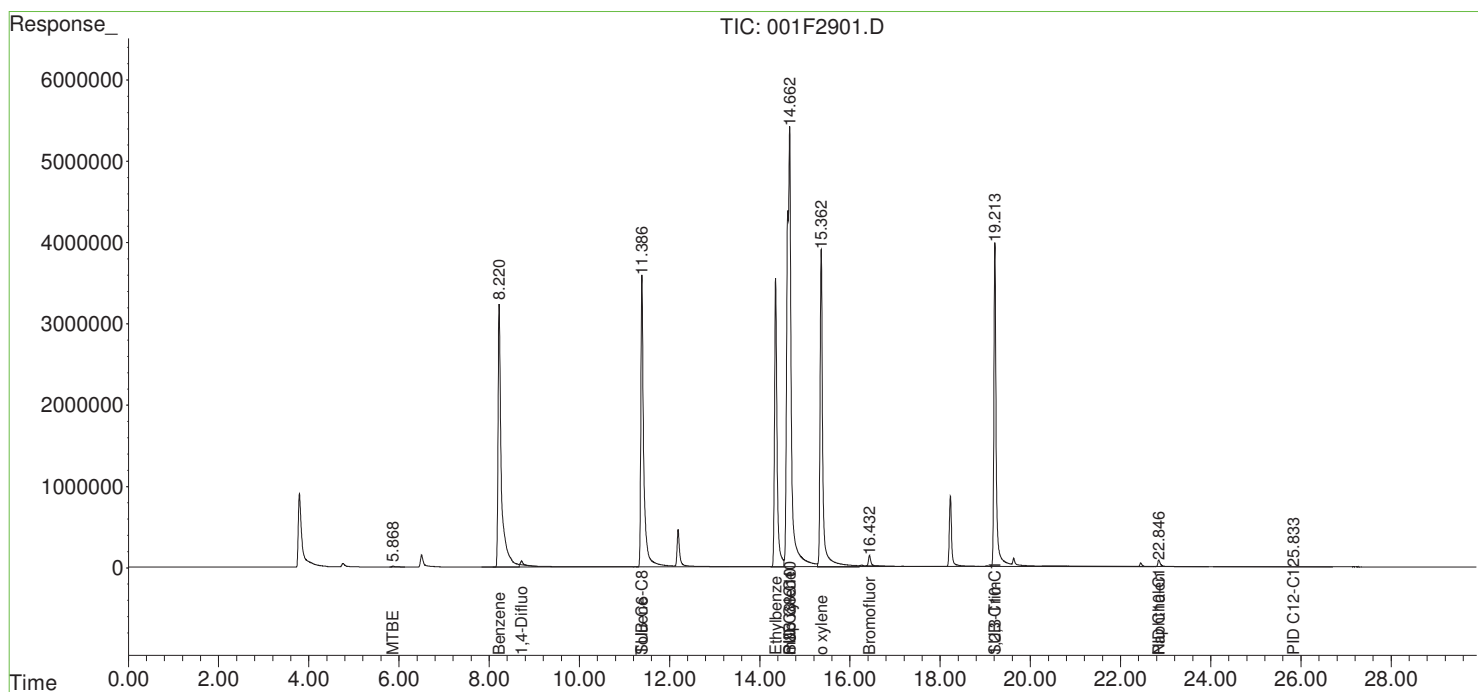
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F2901.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 02:20:22
 Operator : BC
 Sample : VPH 1000 PPB 17869
 Misc : ICAL O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:01:03 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F1101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 21:47:34
 Operator : BC
 Sample : VPH 1000 PPB (Sig #1); CLEANOUT (Sig #2)
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:17:25 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.602	3004627	53.369 ug/l m
2) S Bromofluorobenzene	16.407	8168333	52.326 ug/l m
Target Compounds			
3) t MTBE	5.678	50978295	1000.247 ug/l
4) t Benzene	8.090	165310616	902.850 ug/l
5) t Toluene	11.323	154555337	887.211 ug/l
6) t Ethylbenzene	14.320	131383769	1001.791 ug/l
7) t m&p xylenes	14.634	308819867	2014.968 ug/l m
8) t o xylene	15.336	148698772	1091.120 ug/l
9) t 1,2,3-Trimethylbenzene	19.204	133796182	1001.027 ug/l
10) t Naphthalene	22.848	101300534	1014.730 ug/l
11) T PID C8-C10	14.634	810130744	4036.938 ug/l m
12) T PID C10-C12	22.846f	110289197	992.654 ug/l m
13) T PID C12-C13	25.832f	50054339	1037.886 ug/l m
14) T SUB C6-C8	8.088f	352600833	2005.772 ug/l m
15) T SUB C8-C10	14.634	640436946	3015.688 ug/l m
16) T SUB C10-C12	19.202	156384021	995.294 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.977f	97263	144.982 ug/l
20) t HEXANE	6.329	3800055	1003.798 ug/l
21) T FID C5-C6	6.327	8626540	2921.569 ug/l m
22) T FID C6-C8	8.091f	13269316	2912.531 ug/l m
23) T FID C8-C10	14.637	21633995	3981.827 ug/l m
24) T FID C10-C12	19.207	6672414	1975.046 ug/l m

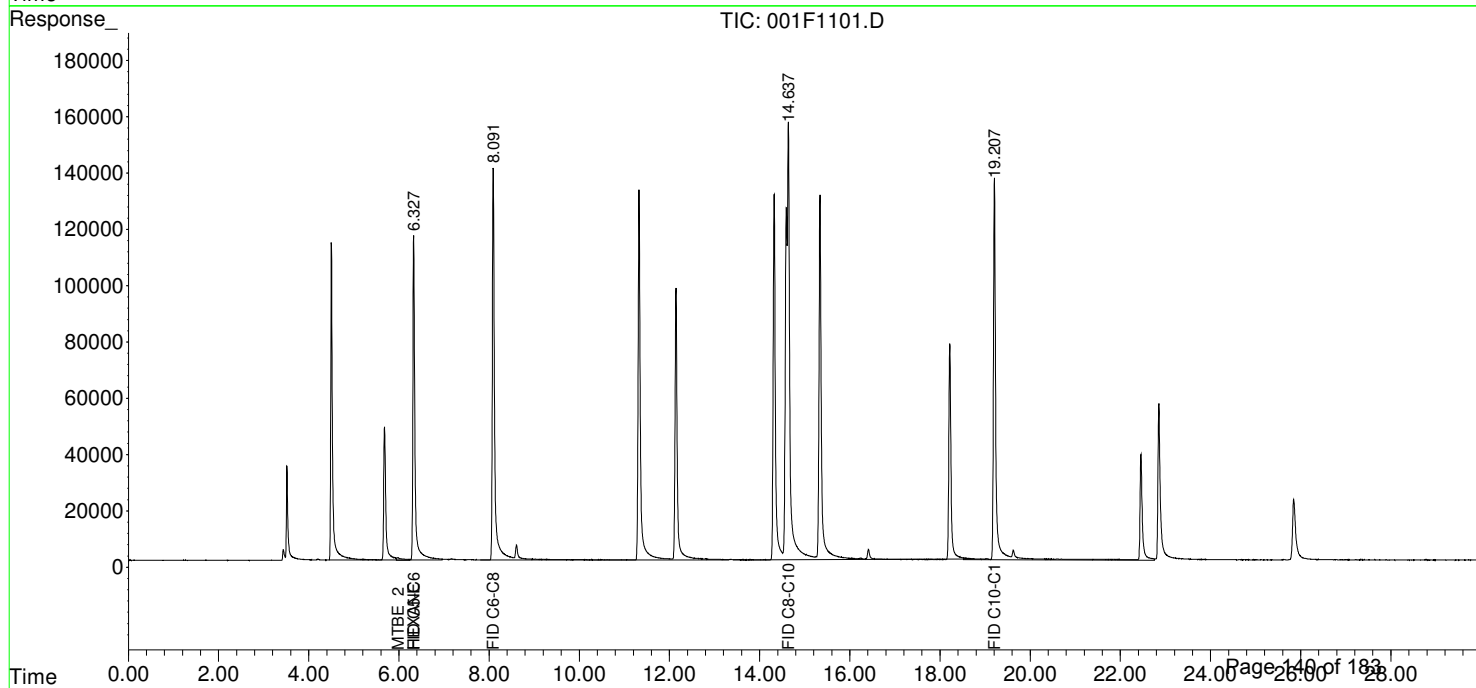
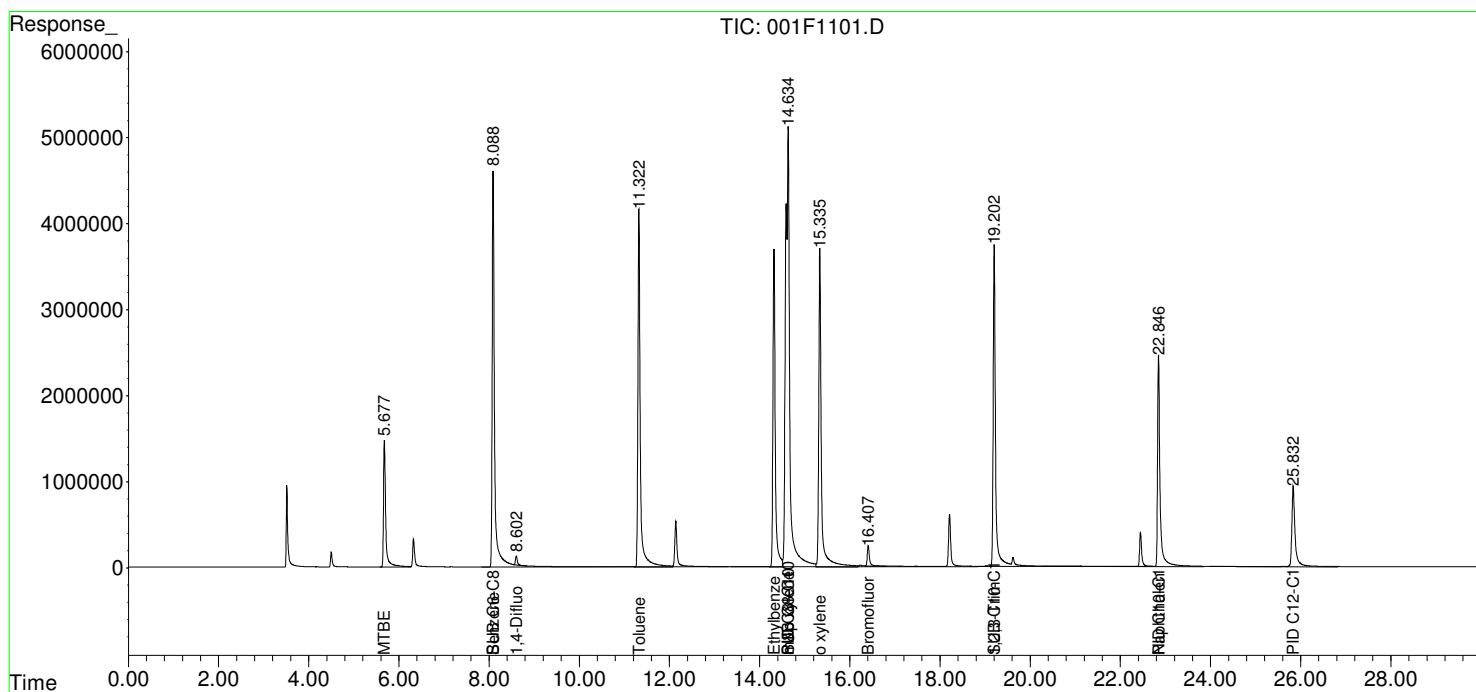
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\040816\2016-05-03\
 Data File : 001F1101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 03-May-2016, 21:47:34
 Operator : BC
 Sample : VPH 1000 PPB (Sig #1); CLEANOUT (Sig #2)
 Misc : ICAL O-VPH-W
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: May 04 14:17:25 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QVPH050316.M
 Quant Title : BTEX
 QLast Update : Wed May 04 14:12:03 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F3201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 04:06:12
 Operator : BC
 Sample : ICB-
 Misc : ICB O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 09:42:30 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.719	1787112	46.520 ug/l m
2) S Bromofluorobenzene	16.438	3143697	38.814 ug/l
Target Compounds			
3) t MTBE	5.742	1690	1632.763 ug/l
4) t Benzene	8.148	1228	0.008 ug/l
5) t Toluene	11.385	59053	0.410 ug/l
6) t Ethylbenzene	14.347	79307	0.646 ug/l
7) t m&p xylenes	14.650	194098	1.221 ug/l
8) t o xylene	15.355	86808	0.578 ug/l
9) t 1,2,3-Trimethylbenzene	19.203	173768	1.422 ug/l
10) t Naphthalene	22.849	31537	34.387 ug/l
11) T PID C8-C10	16.437	3721753	66.625 ug/l m
12) T PID C10-C12	22.848f	95766	BelowCal ug/l m
13) T PID C12-C13	27.111	72784	BelowCal ug/l m
14) T SUB C6-C8	8.719f	3849458	41.959 ug/l m
15) T SUB C8-C10	16.437	7188797	62.932 ug/l m
16) T SUB C10-C12	19.201	222420	BelowCal ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.818	3595	N.D. ug/l
20) t HEXANE	6.431	5718	67.849 ug/l
21) T FID C5-C6	5.810	4084	14.708 ug/l m
22) T FID C6-C8	8.724f	93487	41.765 ug/l m
23) T FID C8-C10	16.442	94206	66.952 ug/l m
24) T FID C10-C12	19.208	37521	BelowCal ug/l m

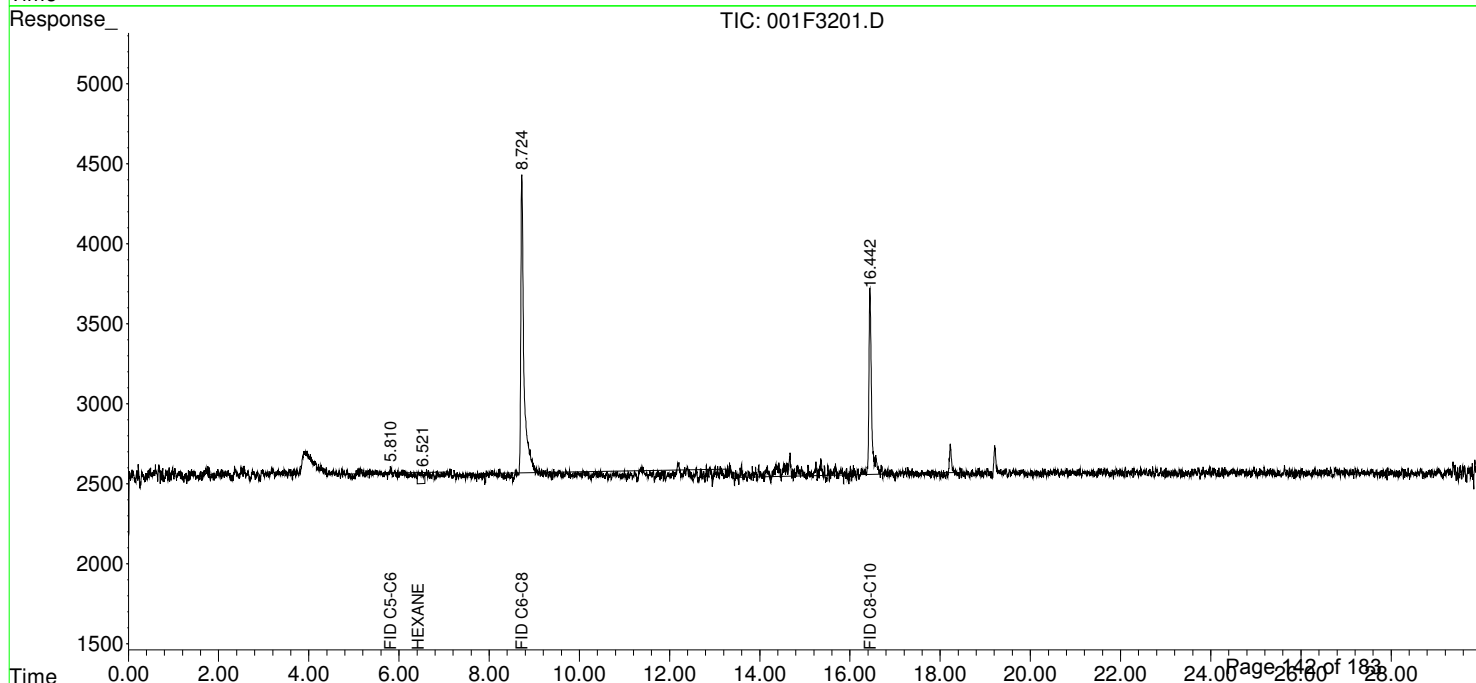
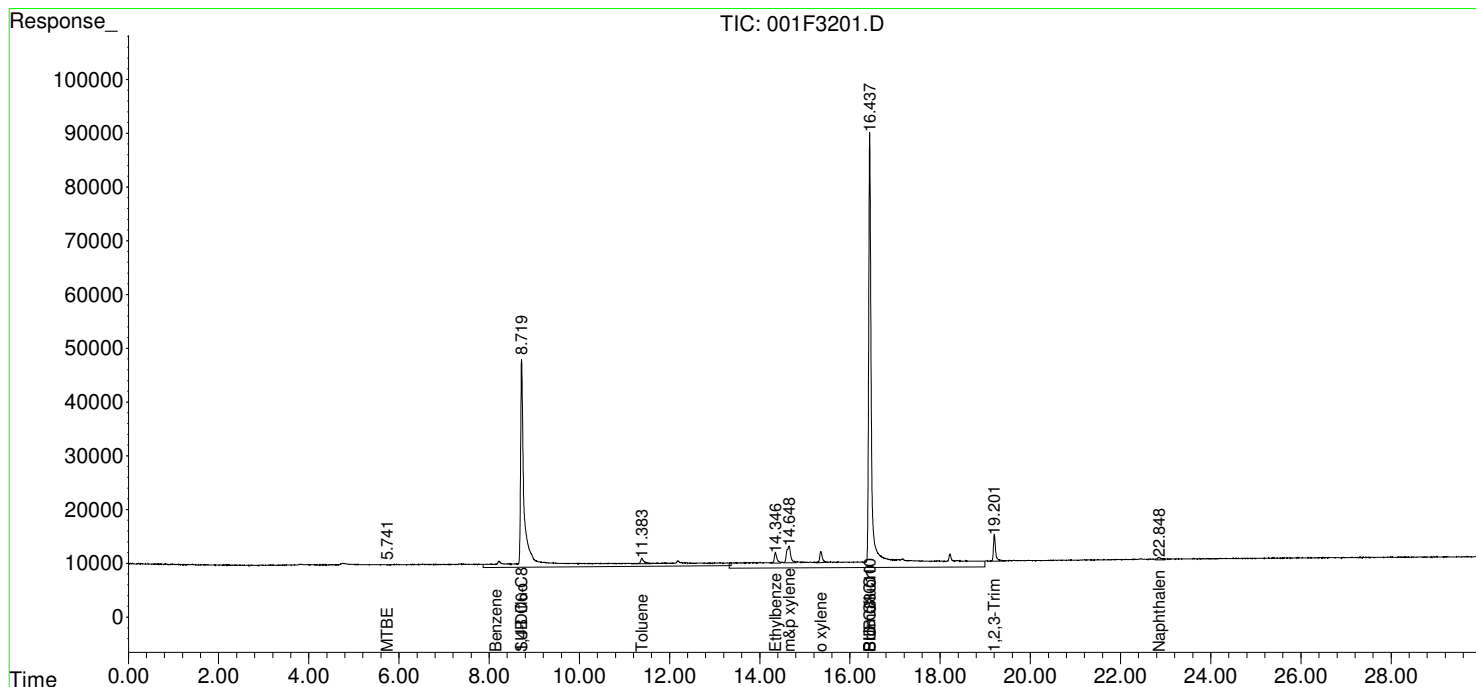
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F3201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 04:06:12
 Operator : BC
 Sample : ICB-
 Misc : ICB O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 09:42:30 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F3301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 04:41:38
 Operator : BC
 Sample : ICV-17311
 Misc : ICV O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 09:54:58 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.717	2035304	52.980 ug/l m
2) S Bromofluorobenzene	16.433	4752788	58.680 ug/l m
Target Compounds			
3) t MTBE	5.870f	550908	192.439 ug/l m
4) t Benzene	8.217	38363307	257.490 ug/l m
5) t Toluene	11.382	36780413	255.187 ug/l m
6) t Ethylbenzene	14.345	31936143	259.958 ug/l
7) t m&p xylenes	14.650	77585353	488.142 ug/l m
8) t o xylene	15.354	35726716	237.819 ug/l m
9) t 1,2,3-Trimethylbenzene	19.203	31211286	255.359 ug/l m
10) t Naphthalene	22.845	208548	245.441 ug/l m
11) T PID C8-C10	14.650	202707571	984.342 ug/l m
12) T PID C10-C12	22.445f	289540	253.752 ug/l m
13) T PID C12-C13	26.635	100465	183.796 ug/l m
14) T SUB C6-C8	11.382	88651236	518.161 ug/l m
15) T SUB C8-C10	14.650	166862609	750.366 ug/l m
16) T SUB C10-C12	19.203	36830663	291.863 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.877	23673	N.D. ug/l
20) t HEXANE	6.505	616090	341.044 ug/l
21) T FID C5-C6	6.502	1214516	893.952 ug/l m
22) T FID C6-C8	11.386	2922516	700.481 ug/l m
23) T FID C8-C10	14.654	5467738	968.694 ug/l m
24) T FID C10-C12	19.208	1160567	536.303 ug/l m

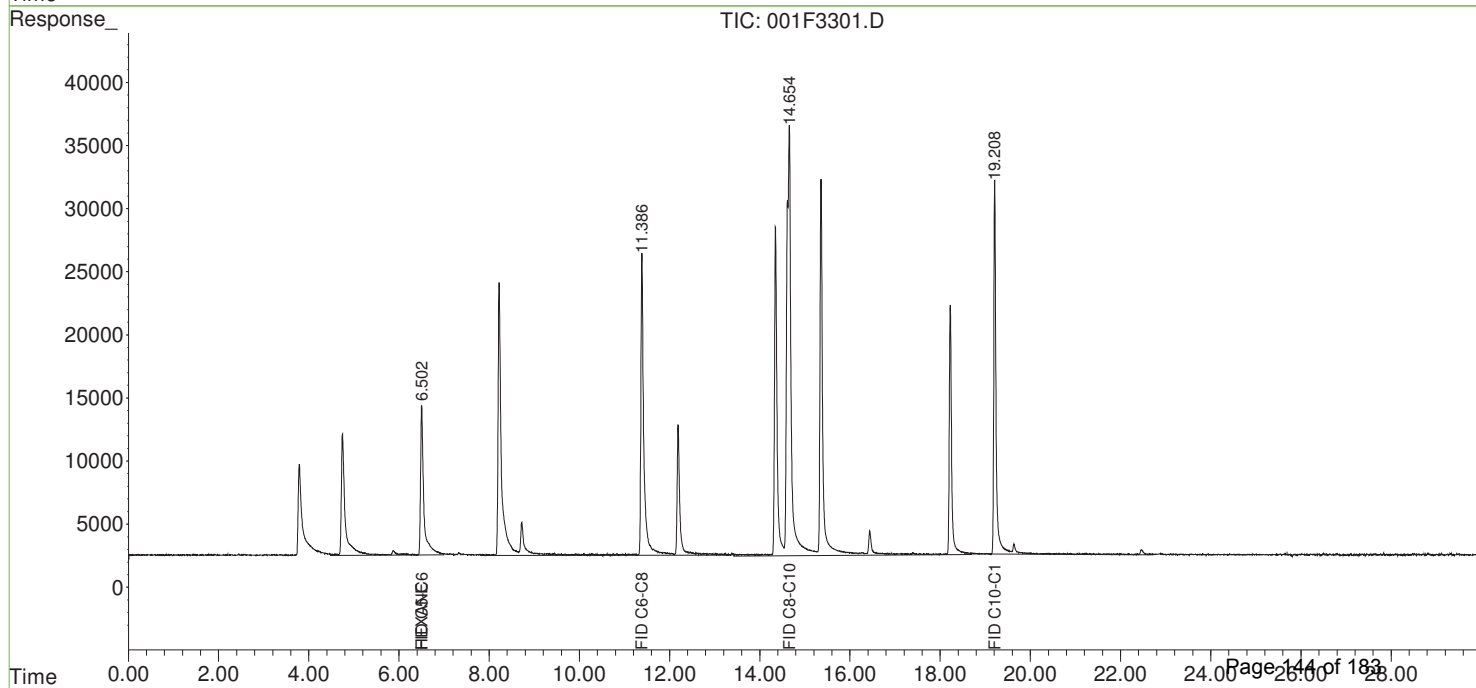
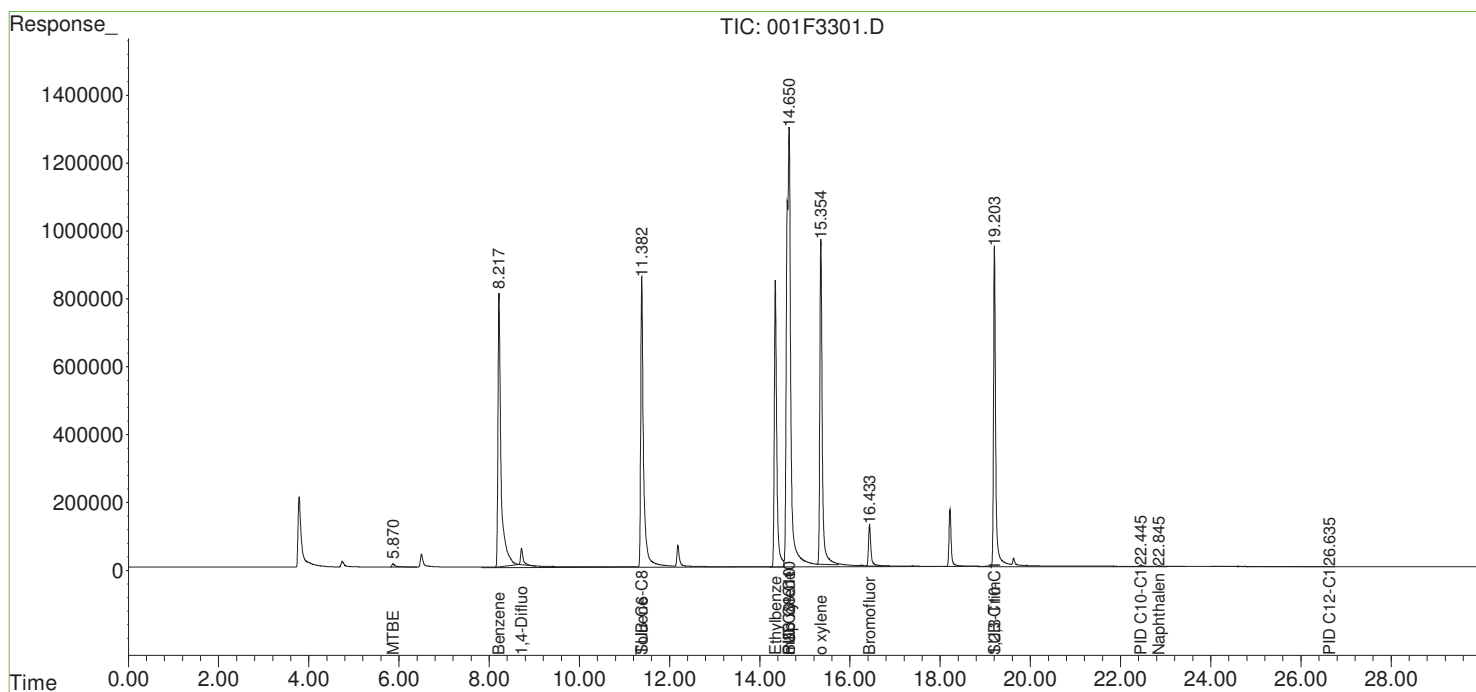
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041116\2016-04-11\
 Data File : 001F3301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 04:41:38
 Operator : BC
 Sample : ICV-17311
 Misc : ICV O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 09:54:58 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\QV041116.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :





Raw Data

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 13:31:26
 Operator : BC
 Sample : CCV-A-17689
 Misc : CCV O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:54:08 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.716	1981184	51.572 ug/l m
2) S Bromofluorobenzene	16.431	4431955	54.719 ug/l m
Target Compounds			
3) t MTBE	5.870f	581260	234.981 ug/l m
4) t Benzene	8.217	32005308	214.816 ug/l
5) t Toluene	11.382	31824986	220.805 ug/l
6) t Ethylbenzene	14.344	27704439	225.512 ug/l
7) t m&p xylenes	14.649	72619451	456.898 ug/l
8) t o xylene	15.353	33568108	223.450 ug/l
9) t 1,2,3-Trimethylbenzene	19.203	28008190	229.152 ug/l
10) t Naphthalene	22.844	168271	225.470 ug/l m
11) T PID C8-C10	14.648	178537424	872.870 ug/l m
12) T PID C10-C12	22.445f	540403	341.703 ug/l m
13) T PID C12-C13	26.630	114448	300.767 ug/l m
14) T SUB C6-C8	11.380	72796422	429.128 ug/l m
15) T SUB C8-C10	14.648	148119017	669.670 ug/l m
16) T SUB C10-C12	19.201	34774324	276.591 ug/l m
18) Signal 2 #2	0.000	0	N.D. d
19) t MTBE 2	5.876	34237	351.995 ug/l
20) t HEXANE	6.504	517837	297.067 ug/l
21) T FID C5-C6	6.501	888011	656.783 ug/l m
22) T FID C6-C8	11.384	2552858	614.410 ug/l m
23) T FID C8-C10	14.653	4870830	868.526 ug/l m
24) T FID C10-C12	19.207	1028160	473.330 ug/l m

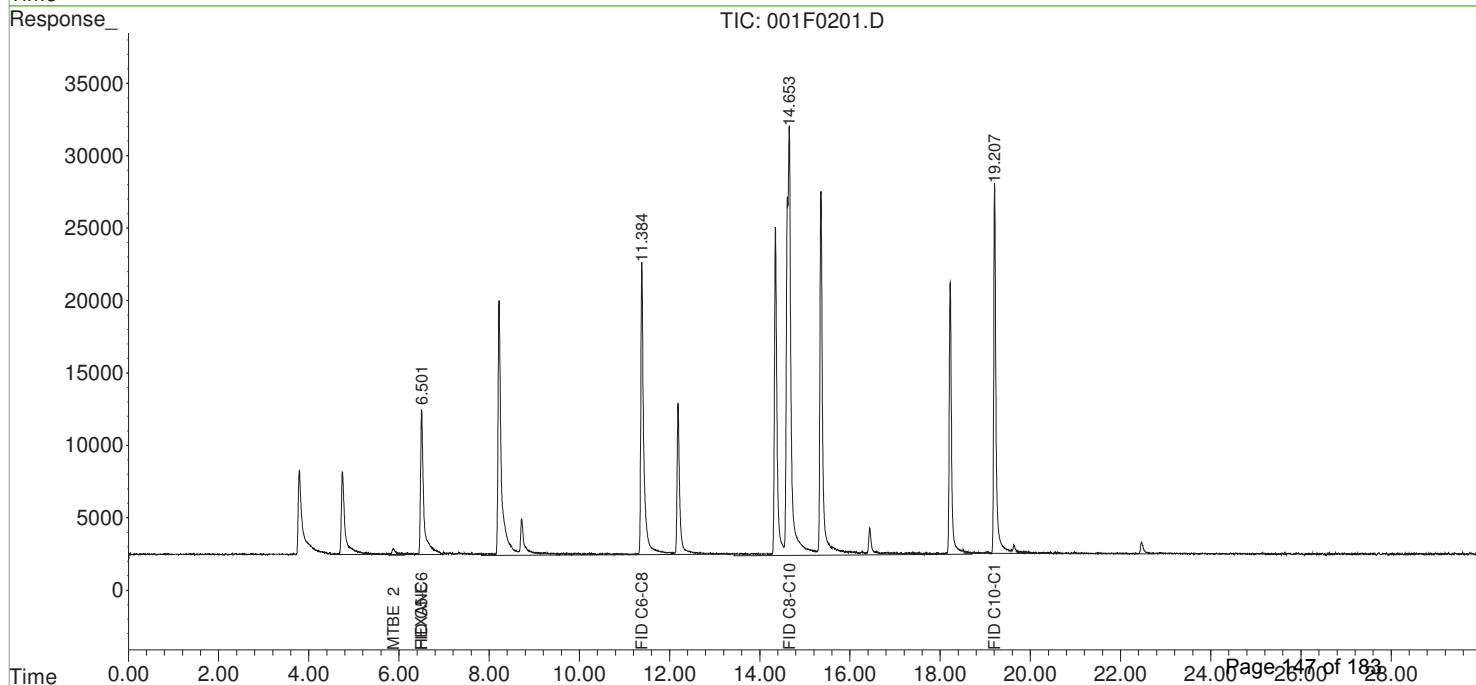
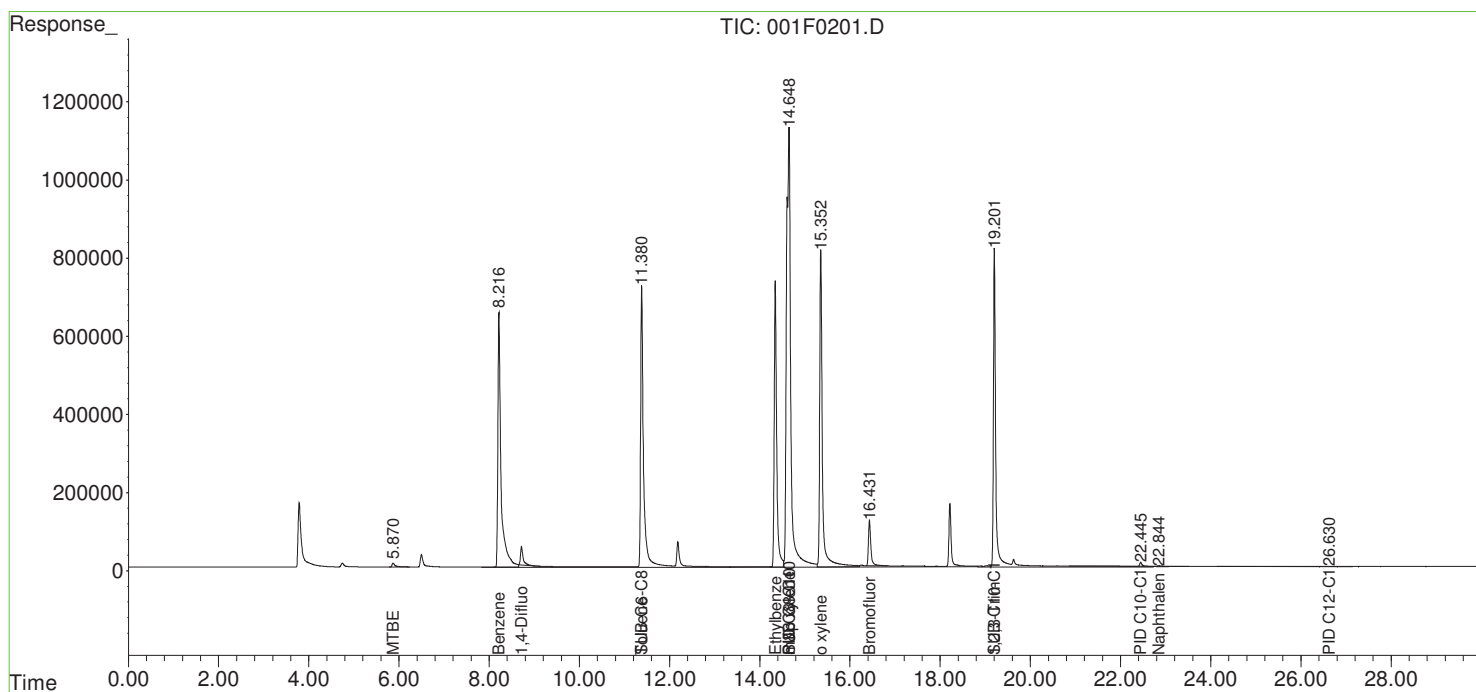
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0201.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 13:31:26
 Operator : BC
 Sample : CCV-A-17689
 Misc : CCV O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:54:08 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0201-2.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 16:10:42
 Operator : BC
 Sample : LCS-A-13429
 Misc : LCS O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:00:14 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VPPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.727	1549102	40.324 ug/l m
2) S Bromofluorobenzene	16.433	3769248	46.537 ug/l m
Target Compounds			
3) t MTBE	5.893f	492182	119.396 ug/l m
4) t Benzene	8.228	25486871	171.065 ug/l m
5) t Toluene	11.388	26156504	181.477 ug/l
6) t Ethylbenzene	14.346	23174756	188.641 ug/l
7) t m&p xylenes	14.651	61538648	387.181 ug/l
8) t o xylene	15.355	28700445	191.047 ug/l
9) t 1,2,3-Trimethylbenzene	19.203	25104966	205.399 ug/l
10) t Naphthalene	22.846	225994	253.411 ug/l
11) T PID C8-C10	14.650	151691145	749.056 ug/l m
12) T PID C10-C12	22.444f	400974	297.920 ug/l m
13) T PID C12-C13	26.540	108035	257.251 ug/l m
14) T SUB C6-C8	11.386	57749255	344.632 ug/l m
15) T SUB C8-C10	14.650	125261047	571.261 ug/l m
16) T SUB C10-C12	19.201	27173990	218.602 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.776	3457	N.D. ug/l
20) t HEXANE	6.523	385882	238.006 ug/l
21) T FID C5-C6	6.520	667154	496.355 ug/l m
22) T FID C6-C8	11.390	2097900	508.476 ug/l m
23) T FID C8-C10	14.654	4108118	740.533 ug/l m
24) T FID C10-C12	19.207	990272	454.598 ug/l m

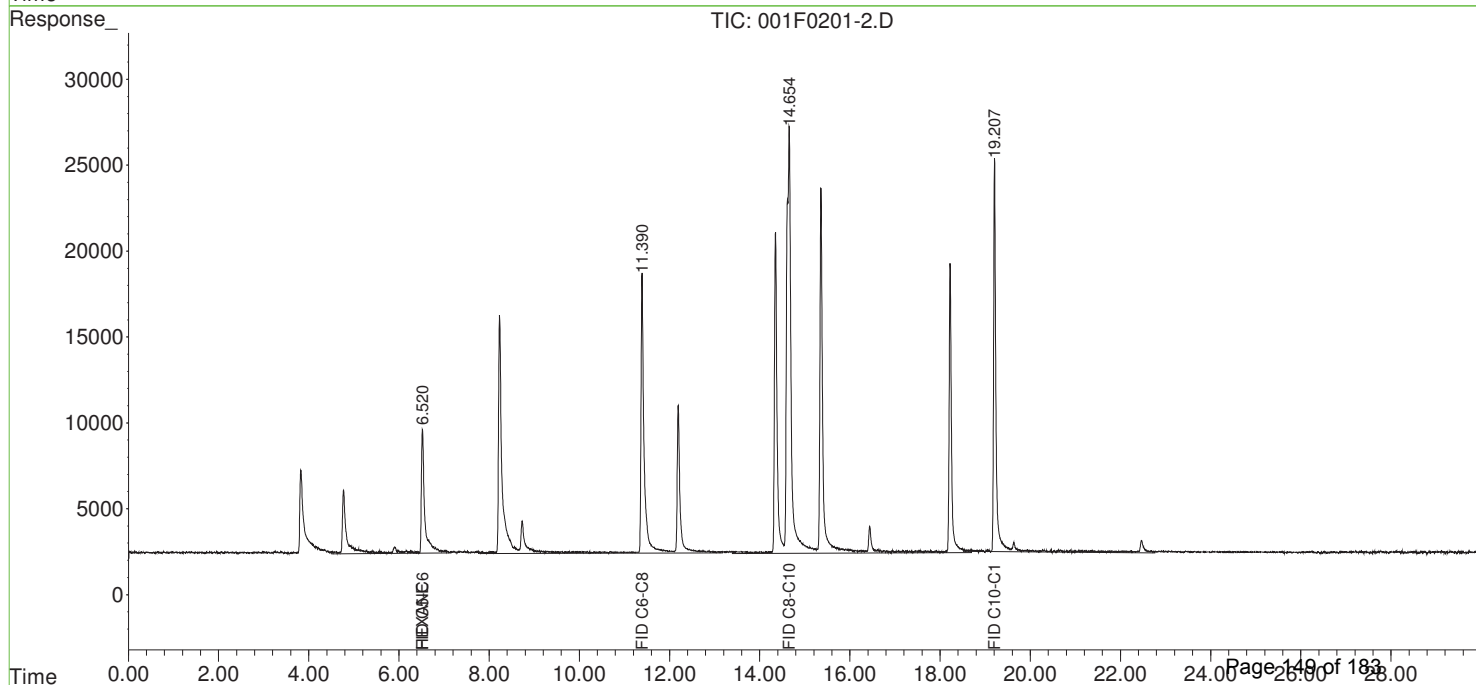
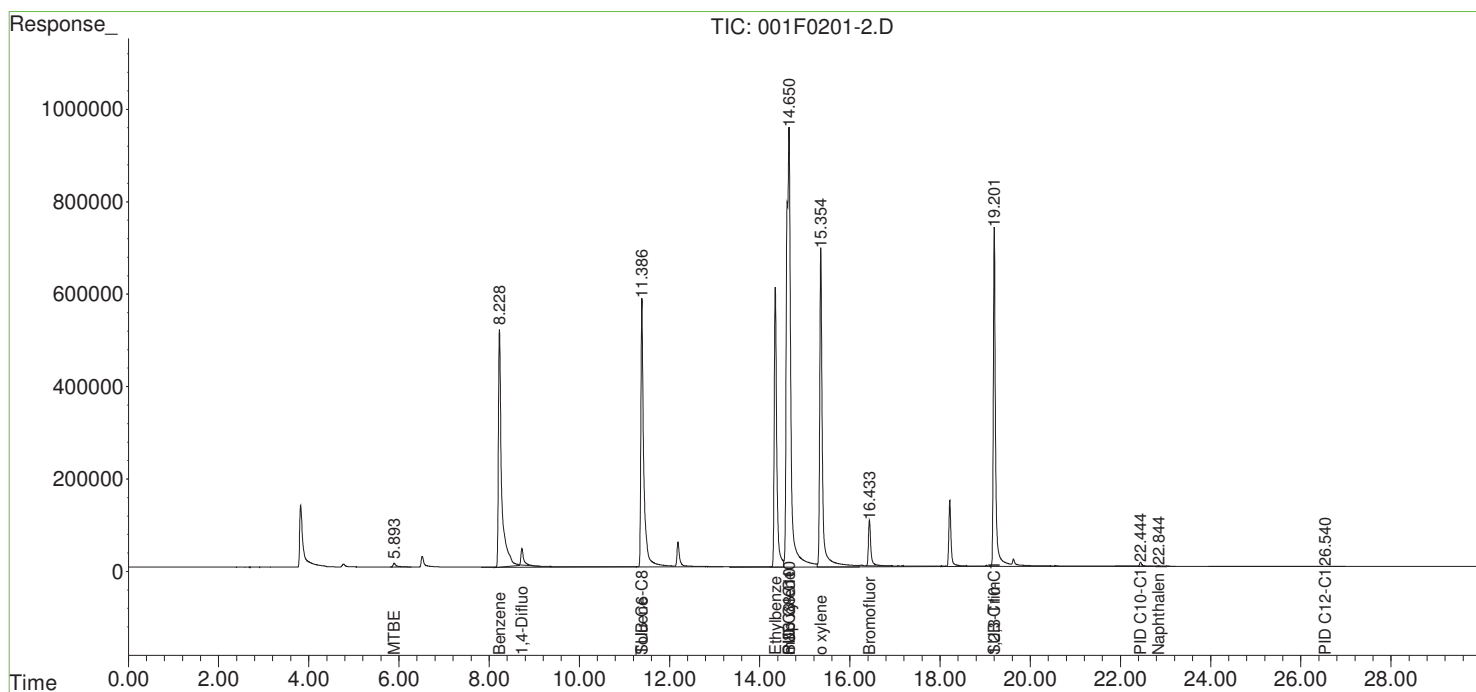
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0201-2.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 16:10:42
 Operator : BC
 Sample : LCS-A-13429
 Misc : LCS O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:00:14 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 17:20:59
 Operator : BC
 Sample : MB-13429
 Misc : MBLK O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:04:35 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.717	1886498	49.107 ug/l
2) S Bromofluorobenzene	16.436	2952481	36.453 ug/l
Target Compounds			
3) t MTBE	5.737	1841	1632.663 ug/l
4) t Benzene	8.136	1819	0.012 ug/l
5) t Toluene	11.382	33809	0.235 ug/l
6) t Ethylbenzene	14.344	41645	0.339 ug/l
7) t m&p xylenes	14.648	103264	0.650 ug/l
8) t o xylene	15.353	45718	0.304 ug/l
9) t 1,2,3-Trimethylbenzene	19.201	74708	0.611 ug/l
10) t Naphthalene	22.840	11634	BelowCal ug/l
11) T PID C8-C10	14.513	1898	49.469 ug/l
12) T PID C10-C12	23.711	2909	BelowCal ug/l
13) T PID C12-C13	26.676	611	BelowCal ug/l
14) T SUB C6-C8	11.618	2708	20.358 ug/l
15) T SUB C8-C10	15.185	2512	31.994 ug/l
16) T SUB C10-C12	19.991	1572	BelowCal ug/l
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.864	1518	N.D. ug/l
20) t HEXANE	6.476	7453	68.626 ug/l
21) T FID C5-C6	6.170	7300	17.044 ug/l
22) T FID C6-C8	11.748	8794	22.045 ug/l
23) T FID C8-C10	15.213	3333	51.702 ug/l
24) T FID C10-C12	20.092	3723	BelowCal ug/l

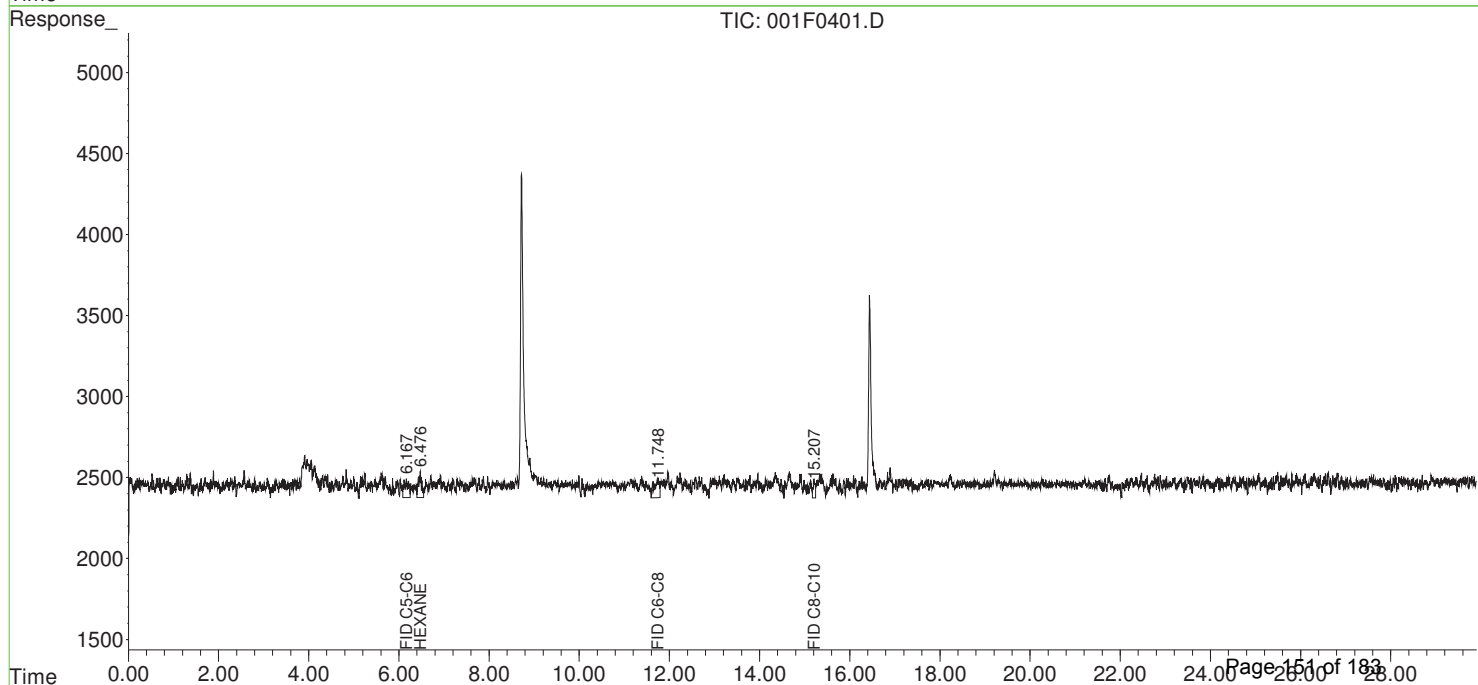
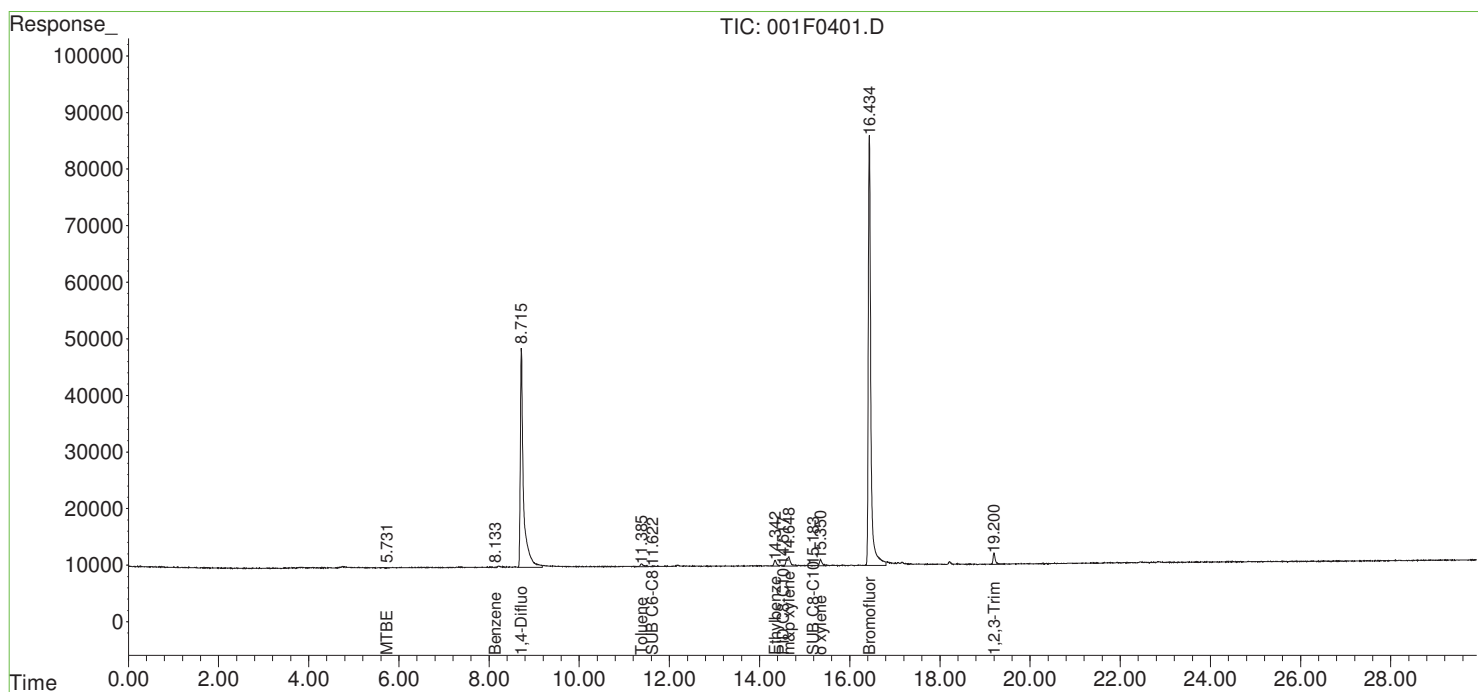
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 17:20:59
 Operator : BC
 Sample : MB-13429
 Misc : MBLK O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:04:35 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0601.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 18:31:36
 Operator : BC
 Sample : 1604078-003A
 Misc : SAMP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:04:57 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.718	1880204	48.943 ug/l m
2) S Bromofluorobenzene	16.436	3328403	41.094 ug/l
Target Compounds			
3) t MTBE	5.721	3224	1631.746 ug/l
4) t Benzene	8.215	12199	0.082 ug/l
5) t Toluene	11.381	19666	0.136 ug/l
6) t Ethylbenzene	14.345	24587	0.200 ug/l
7) t m&p xylenes	14.648	61997	0.390 ug/l
8) t o xylene	15.355	30194	0.201 ug/l
9) t 1,2,3-Trimethylbenzene	19.200	49624	0.406 ug/l
10) t Naphthalene	22.832	25661	50.594 ug/l
11) T PID C8-C10	14.648	61997	49.747 ug/l
12) T PID C10-C12	23.757	3645	BelowCal ug/l
13) T PID C12-C13	26.677	4083	BelowCal ug/l
14) T SUB C6-C8	11.635	3393	20.362 ug/l
15) T SUB C8-C10	15.215	2840	31.995 ug/l
16) T SUB C10-C12	20.036	7446	BelowCal ug/l
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.929	9827	N.D. ug/l
20) t HEXANE	6.440	10142	69.829 ug/l
21) T FID C5-C6	6.244	8098	17.624 ug/l
22) T FID C6-C8	11.643	6582	21.530 ug/l
23) T FID C8-C10	15.113	7788	52.450 ug/l
24) T FID C10-C12	19.870	12034	BelowCal ug/l

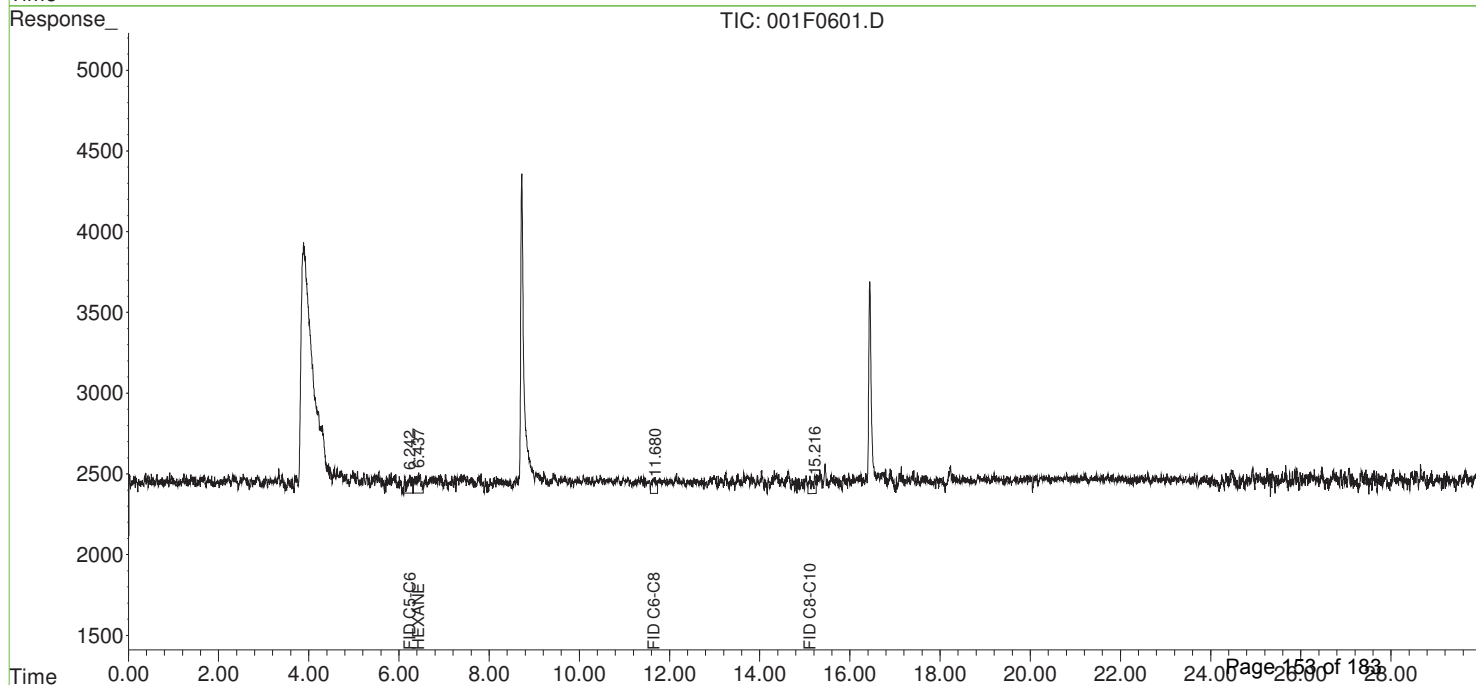
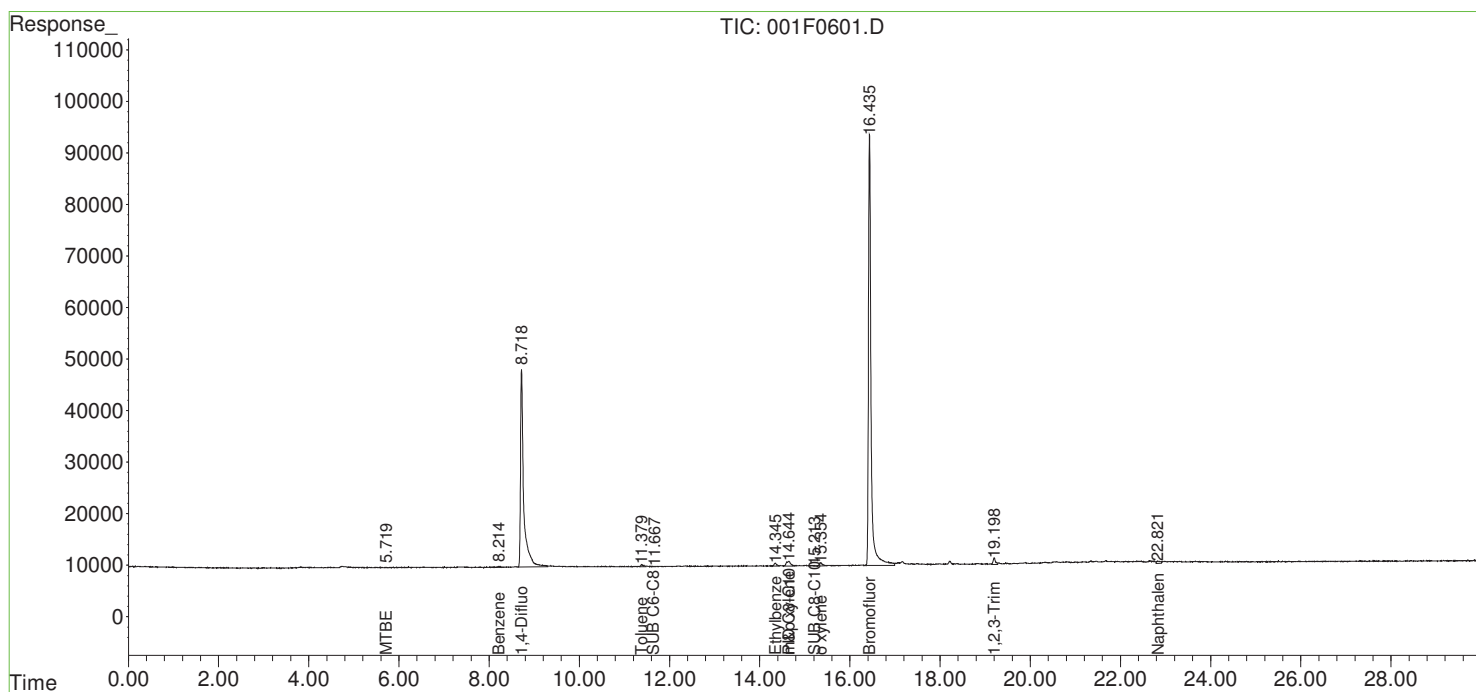
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0601.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 18:31:36
 Operator : BC
 Sample : 1604078-003A
 Misc : SAMP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:04:57 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0701.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 19:06:57
 Operator : BC
 Sample : 1604078-003ADUP
 Misc : DUP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:05:07 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.715	2000112	52.064 ug/l m
2) S Bromofluorobenzene	16.435	3393036	41.892 ug/l
Target Compounds			
3) t MTBE	5.753	1155	1633.118 ug/l
4) t Benzene	8.079	2187	0.015 ug/l
5) t Toluene	11.390	26235	0.182 ug/l
6) t Ethylbenzene	14.341	21185	0.172 ug/l
7) t m&p xylenes	14.647	56385	0.355 ug/l
8) t o xylene	15.350	26047	0.173 ug/l
9) t 1,2,3-Trimethylbenzene	19.201	49867	0.408 ug/l
10) t Naphthalene	22.844	26492	47.636 ug/l
11) T PID C8-C10	14.647	56385	49.721 ug/l
12) T PID C10-C12	23.739	4706	BelowCal ug/l
13) T PID C12-C13	26.673	9059	BelowCal ug/l
14) T SUB C6-C8	11.609	953	20.348 ug/l
15) T SUB C8-C10	15.171	1476	31.989 ug/l
16) T SUB C10-C12	20.025	11986	BelowCal ug/l
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.794	4052	N.D. ug/l
20) t HEXANE	6.460	11006	70.216 ug/l
21) T FID C5-C6	6.117	5300	15.591 ug/l
22) T FID C6-C8	11.574	1423	20.329 ug/l
23) T FID C8-C10	15.189	11501	53.073 ug/l
24) T FID C10-C12	20.017	4083	BelowCal ug/l

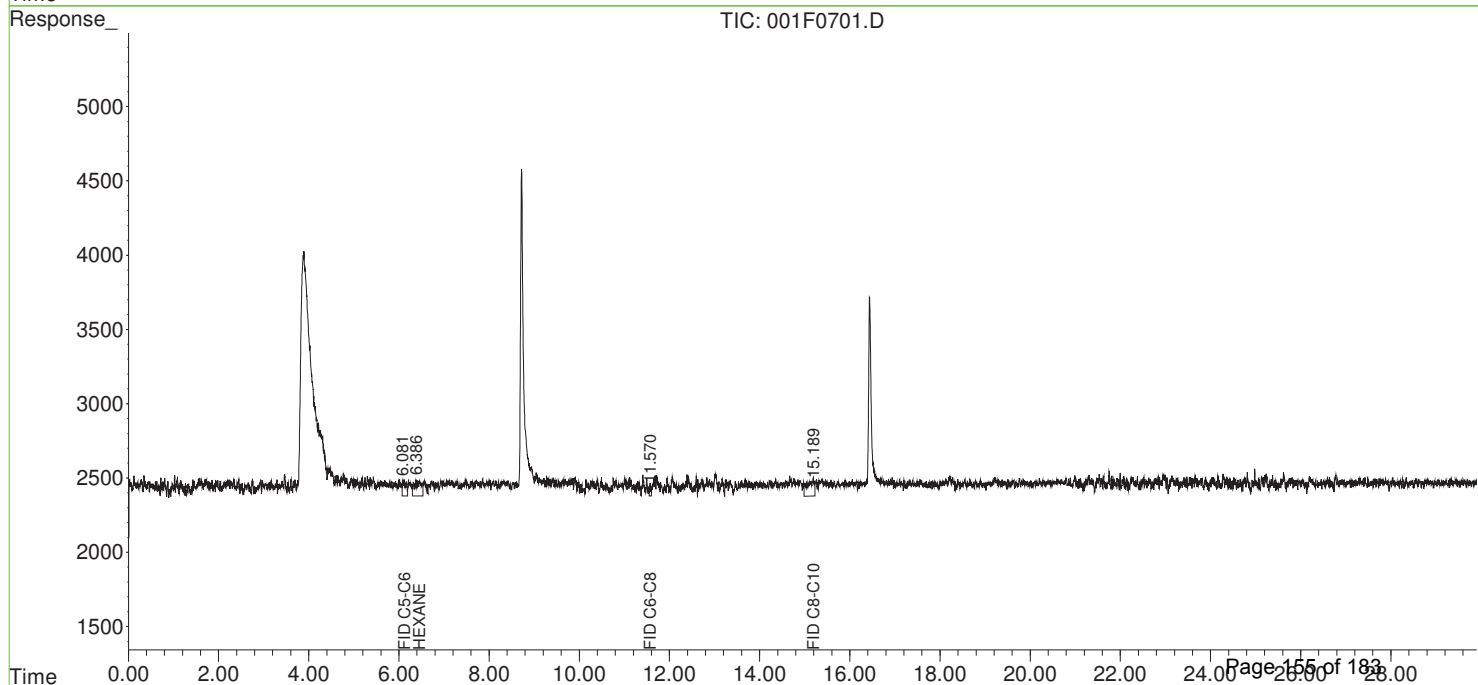
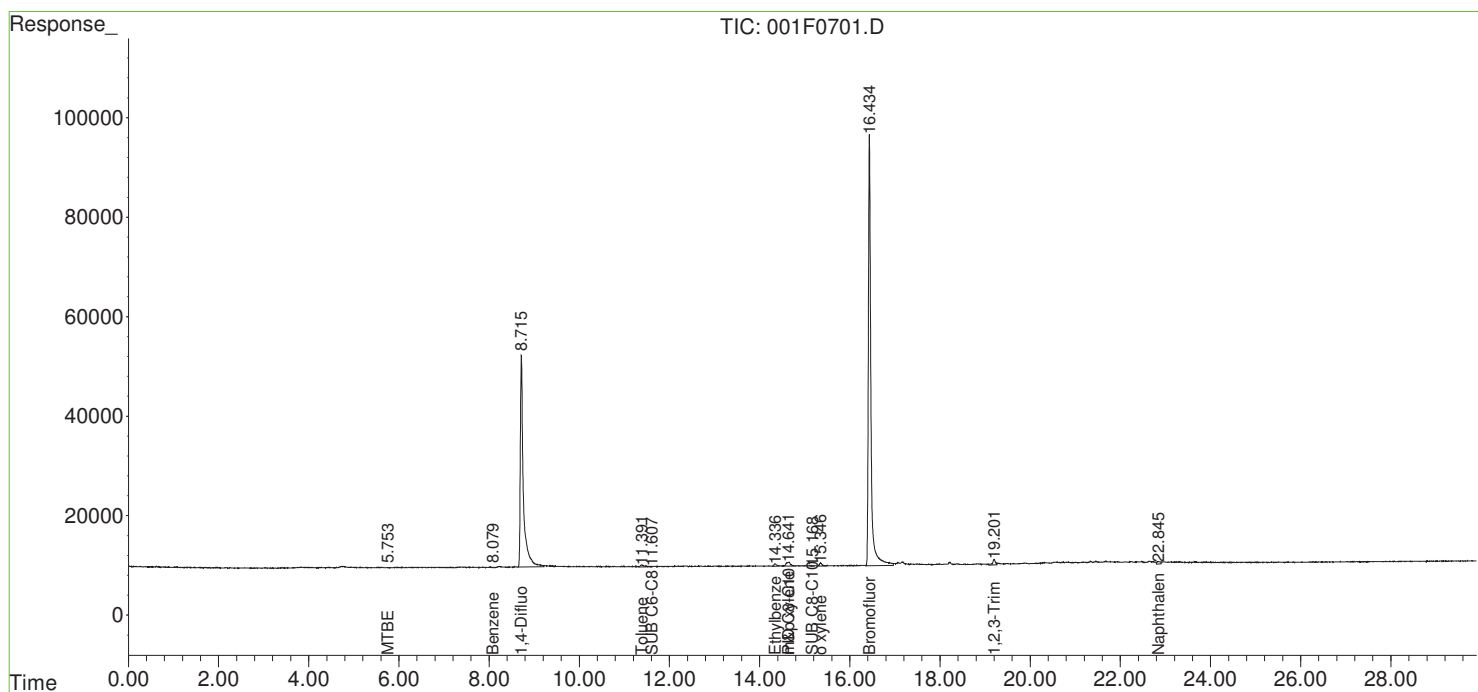
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0701.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 19:06:57
 Operator : BC
 Sample : 1604078-003ADUP
 Misc : DUP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:05:07 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0801.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 19:42:25
 Operator : BC
 Sample : 1604079-001A
 Misc : SAMP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:05:19 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

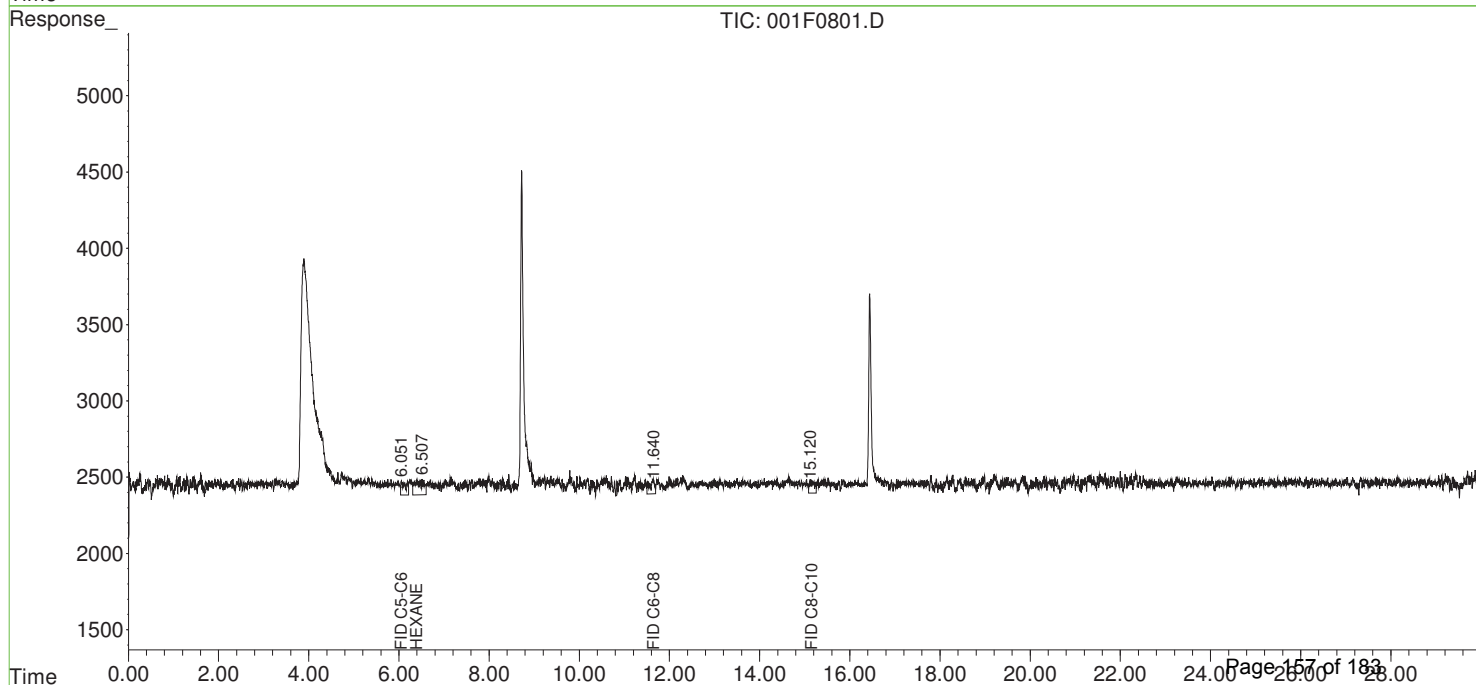
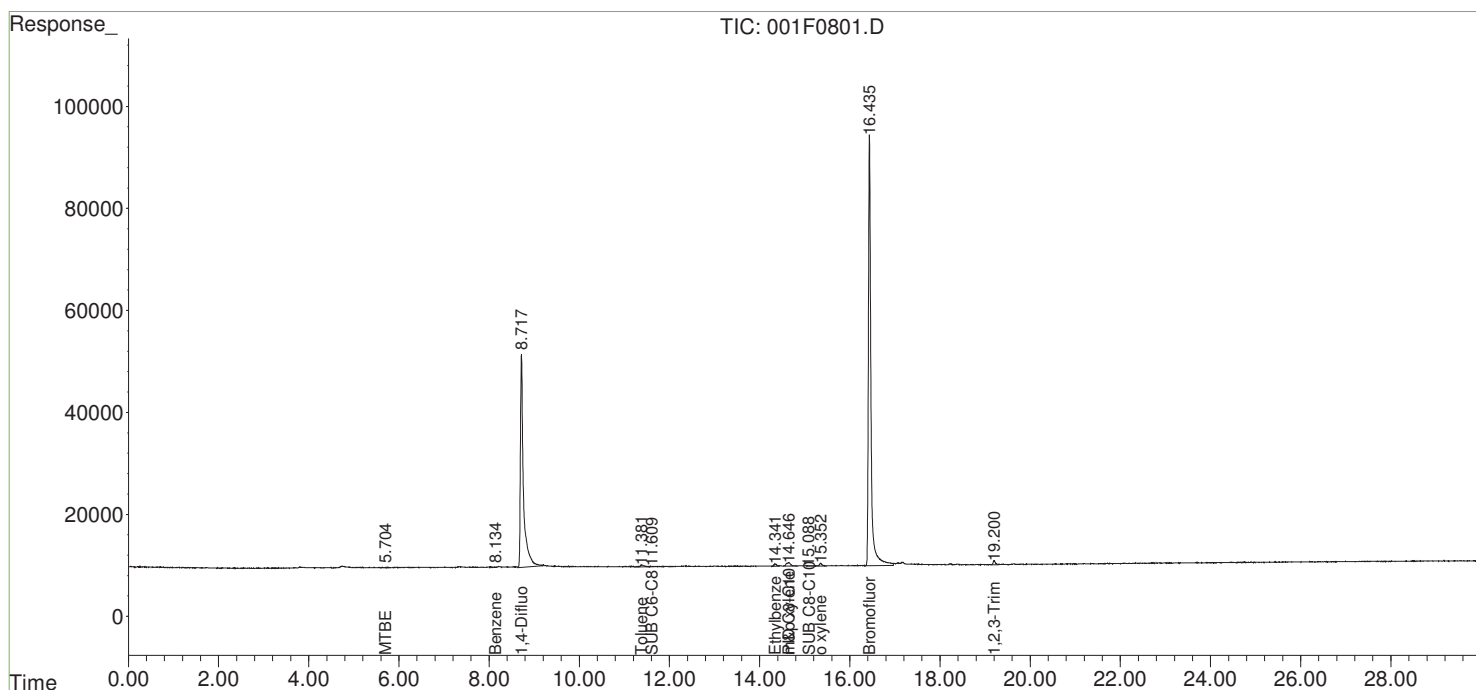
System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.717	1976470	51.449 ug/l m
2) S Bromofluorobenzene	16.436	3325411	41.057 ug/l
Target Compounds			
3) t MTBE	5.703	5181	1630.448 ug/l
4) t Benzene	8.137	1202	0.008 ug/l
5) t Toluene	11.385	26722	0.185 ug/l
6) t Ethylbenzene	14.344	18853	0.153 ug/l
7) t m&p xylenes	14.646	50521	0.318 ug/l
8) t o xylene	15.353	23640	0.157 ug/l
9) t 1,2,3-Trimethylbenzene	19.202	30858	0.252 ug/l
10) t Naphthalene	22.855	7347	BelowCal ug/l
11) T PID C8-C10	14.646	50521	49.694 ug/l
12) T PID C10-C12	23.678	7373	BelowCal ug/l
13) T PID C12-C13	26.707	5226	BelowCal ug/l
14) T SUB C6-C8	11.610	2120	20.355 ug/l
15) T SUB C8-C10	15.100	5121	32.005 ug/l
16) T SUB C10-C12	19.993	2818	BelowCal ug/l
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.827	4501	N.D. ug/l
20) t HEXANE	6.395	12791	71.015 ug/l
21) T FID C5-C6	6.062	6755	16.648 ug/l
22) T FID C6-C8	11.634	7131	21.658 ug/l
23) T FID C8-C10	15.144	6055	52.159 ug/l
24) T FID C10-C12	19.830	7349	BelowCal ug/l

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0801.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 19:42:25
 Operator : BC
 Sample : 1604079-001A
 Misc : SAMP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:05:19 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 21:29:11
 Operator : BC
 Sample : 1604081-001A
 Misc : SAMP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:05:51 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VPPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.727	1403657	36.538 ug/l m
2) S Bromofluorobenzene	16.435	2765843	34.148 ug/l m
Target Compounds			
3) t MTBE	5.747	2311	1632.351 ug/l
4) t Benzene	8.158	2132	0.014 ug/l
5) t Toluene	11.387	17415	0.121 ug/l
6) t Ethylbenzene	14.340	14388	0.117 ug/l
7) t m&p xylenes	14.651	32747	0.206 ug/l
8) t o xylene	15.358	17793	0.118 ug/l
9) t 1,2,3-Trimethylbenzene	19.201	22174	0.181 ug/l
10) t Naphthalene	22.877	10031	BelowCal ug/l
11) T PID C8-C10	14.538	1555	49.468 ug/l
12) T PID C10-C12	23.734	6665	BelowCal ug/l
13) T PID C12-C13	26.737	18776	BelowCal ug/l
14) T SUB C6-C8	11.666	3628	20.363 ug/l
15) T SUB C8-C10	15.225	3592	31.998 ug/l
16) T SUB C10-C12	20.017	3325	BelowCal ug/l
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.919	7887	N.D. ug/l
20) t HEXANE	6.406	3041	66.651 ug/l
21) T FID C5-C6	6.144	2914	13.858 ug/l
22) T FID C6-C8	11.629	4354	21.011 ug/l
23) T FID C8-C10	15.165	8464	52.563 ug/l
24) T FID C10-C12	19.962	10852	BelowCal ug/l

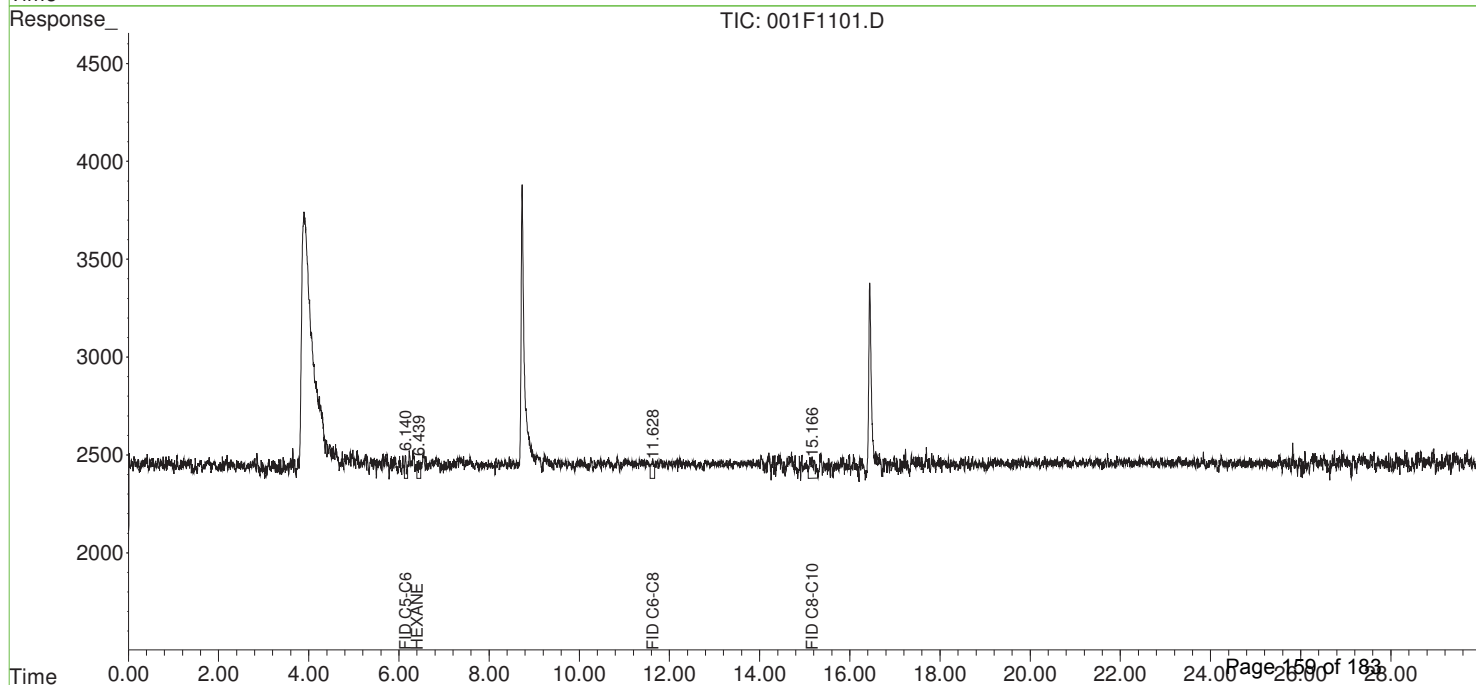
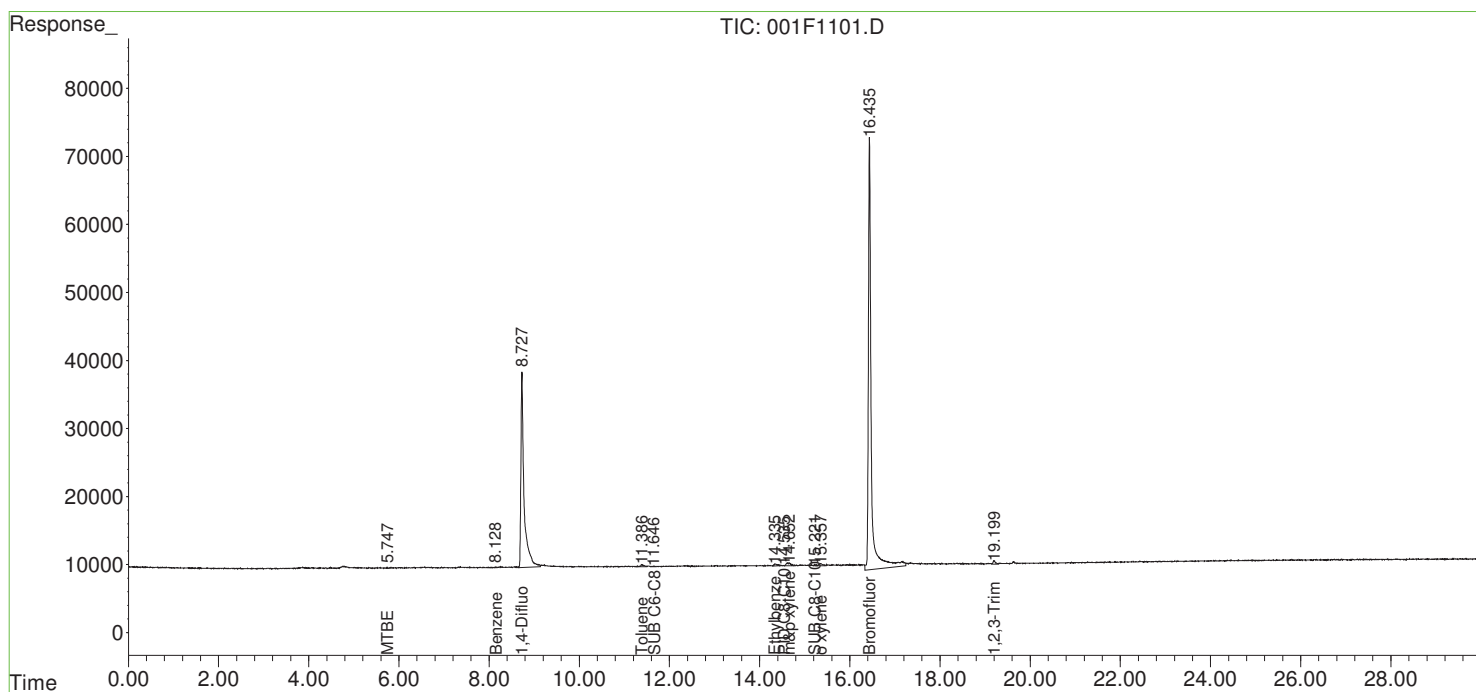
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1101.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 21:29:11
 Operator : BC
 Sample : 1604081-001A
 Misc : SAMP O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:05:51 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 22:39:37
 Operator : BC
 Sample : 1604081-001AMS
 Misc : MS O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:07:09 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VPPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.721	1702530	44.318 ug/l m
2) S Bromofluorobenzene	16.433	4009150	49.499 ug/l m
Target Compounds			
3) t MTBE	5.880f	596464	257.941 ug/l m
4) t Benzene	8.223	26933670	180.776 ug/l
5) t Toluene	11.385	27267000	189.182 ug/l
6) t Ethylbenzene	14.345	24091470	196.103 ug/l
7) t m&p xylenes	14.650	63207120	397.679 ug/l
8) t o xylene	15.355	29117127	193.821 ug/l
9) t 1,2,3-Trimethylbenzene	19.203	24446462	200.012 ug/l
10) t Naphthalene	22.844	160021	221.049 ug/l
11) T PID C8-C10	14.649	153105651	755.579 ug/l m
12) T PID C10-C12	22.444f	806376	407.986 ug/l m
13) T PID C12-C13	24.020f	104201	224.932 ug/l m
14) T SUB C6-C8	11.384	59937512	356.920 ug/l m
15) T SUB C8-C10	14.649	126200955	575.308 ug/l m
16) T SUB C10-C12	19.201	28361802	227.833 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.888	32492	288.399 ug/l
20) t HEXANE	6.386	3724	66.957 ug/l
21) T FID C5-C6	6.511	689564	512.633 ug/l m
22) T FID C6-C8	11.388	2255243	545.112 ug/l m
23) T FID C8-C10	14.655	4132190	744.573 ug/l m
24) T FID C10-C12	19.208	1023921	471.251 ug/l m

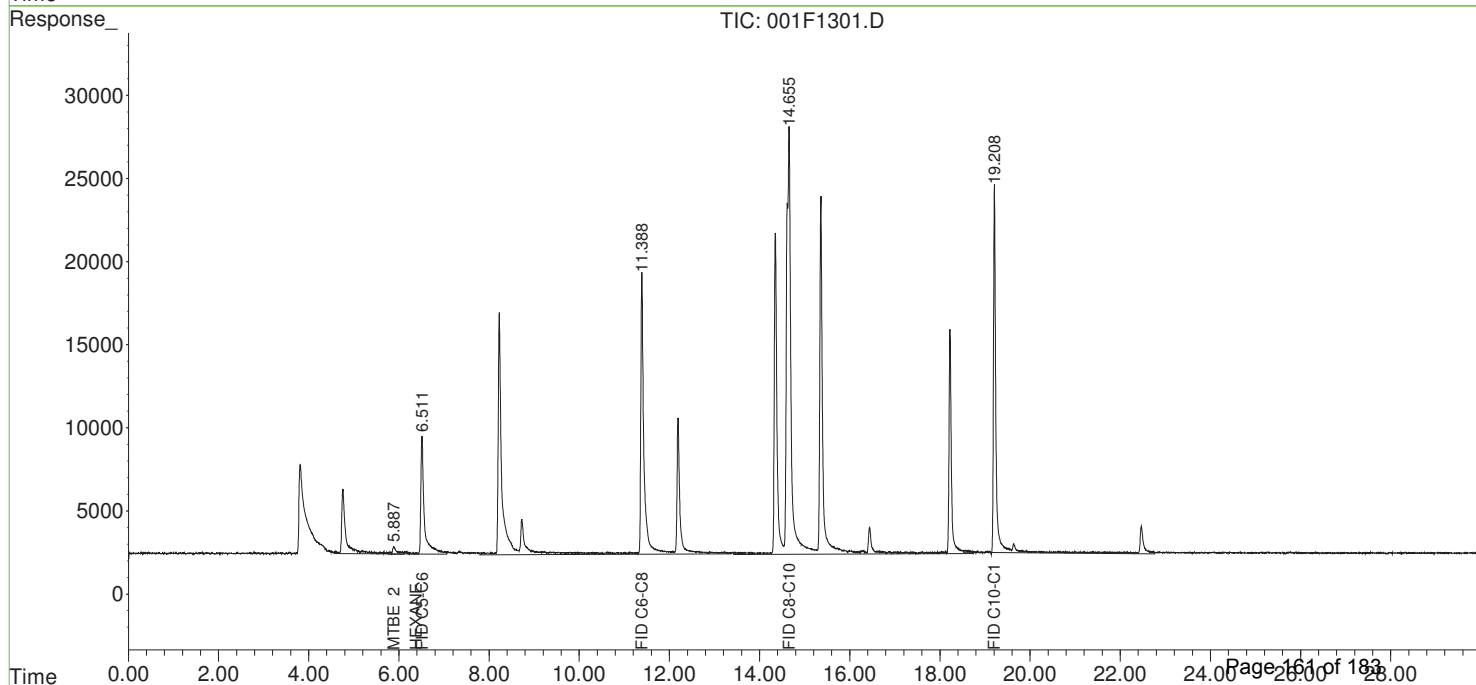
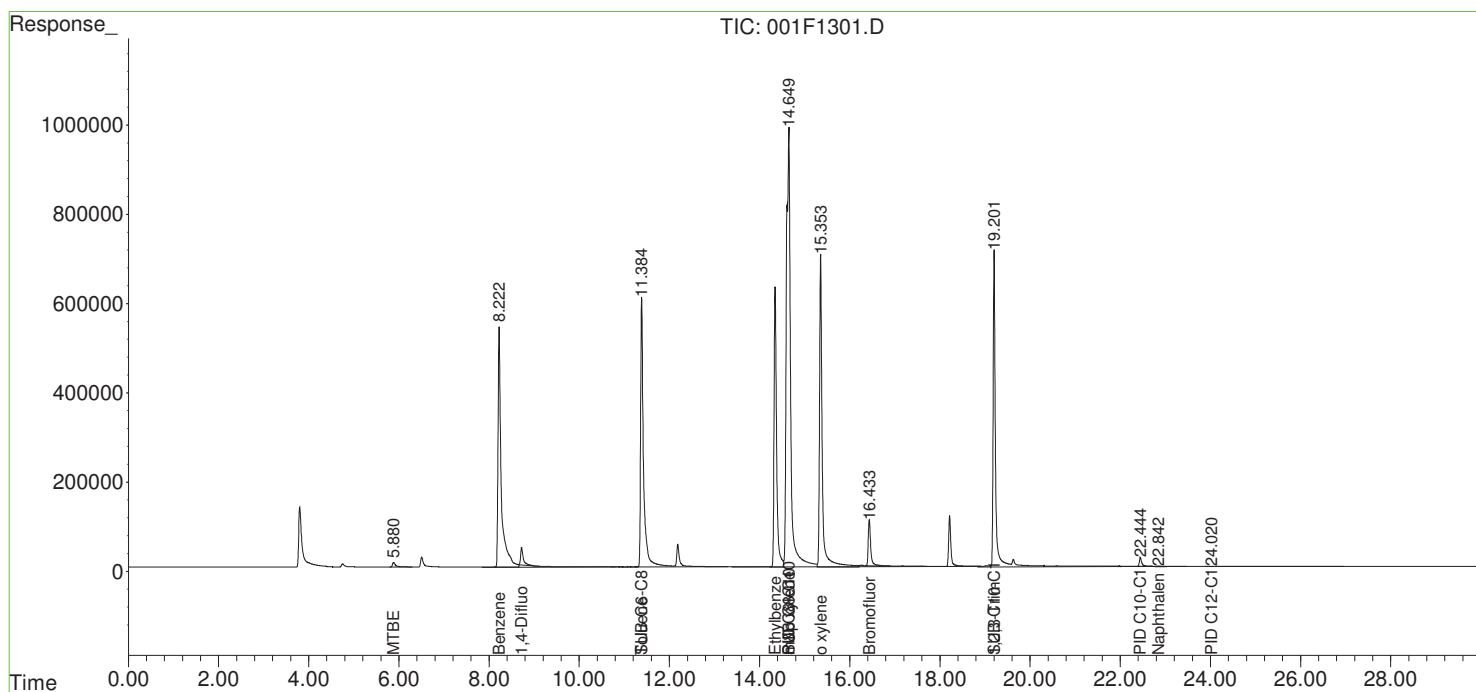
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1301.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 22:39:37
 Operator : BC
 Sample : 1604081-001AMS
 Misc : MS O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:07:09 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 23:14:49
 Operator : BC
 Sample : 1604081-001AMSD
 Misc : MSD O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:07:21 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.725	1630723	42.449 ug/l m
2) S Bromofluorobenzene	16.434	3925123	48.461 ug/l m
Target Compounds			
3) t MTBE	5.887f	553153	195.455 ug/l m
4) t Benzene	8.226	26348494	176.848 ug/l m
5) t Toluene	11.388	27143208	188.323 ug/l
6) t Ethylbenzene	14.347	24106057	196.221 ug/l
7) t m&p xylenes	14.652	63438045	399.132 ug/l
8) t o xylene	15.356	29138667	193.964 ug/l
9) t 1,2,3-Trimethylbenzene	19.204	24744820	202.453 ug/l
10) t Naphthalene	22.848	168980	225.844 ug/l
11) T PID C8-C10	14.651	155901520	768.474 ug/l m
12) T PID C10-C12	22.445f	1020215	452.136 ug/l m
13) T PID C12-C13	24.550f	115305	305.935 ug/l m
14) T SUB C6-C8	11.386	62403576	370.768 ug/l m
15) T SUB C8-C10	14.651	129234604	588.369 ug/l m
16) T SUB C10-C12	19.202	28345235	227.705 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.896	28174	131.067 ug/l
20) t HEXANE	6.326	6550	68.222 ug/l
21) T FID C5-C6	6.517	672416	500.177 ug/l m
22) T FID C6-C8	11.390	2227083	538.556 ug/l m
23) T FID C8-C10	14.656	4274716	768.491 ug/l m
24) T FID C10-C12	19.208	1055390	486.587 ug/l m

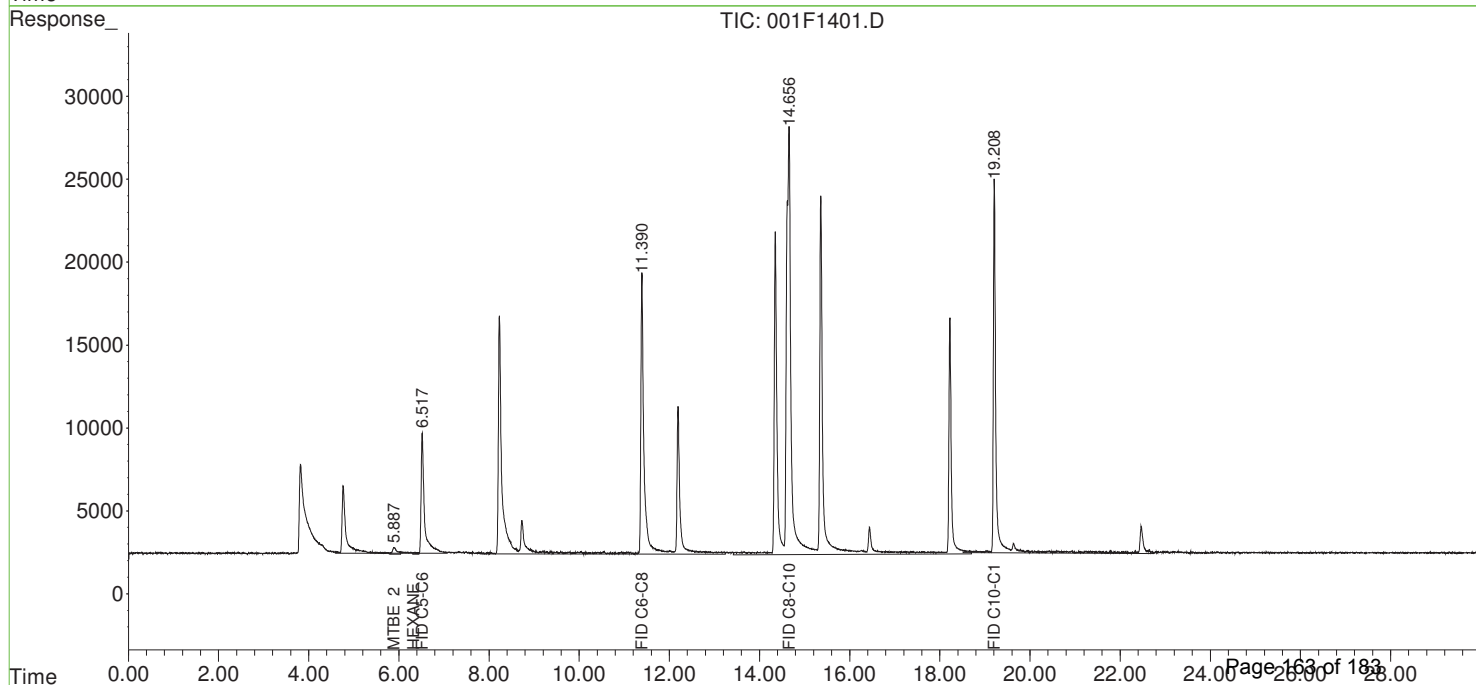
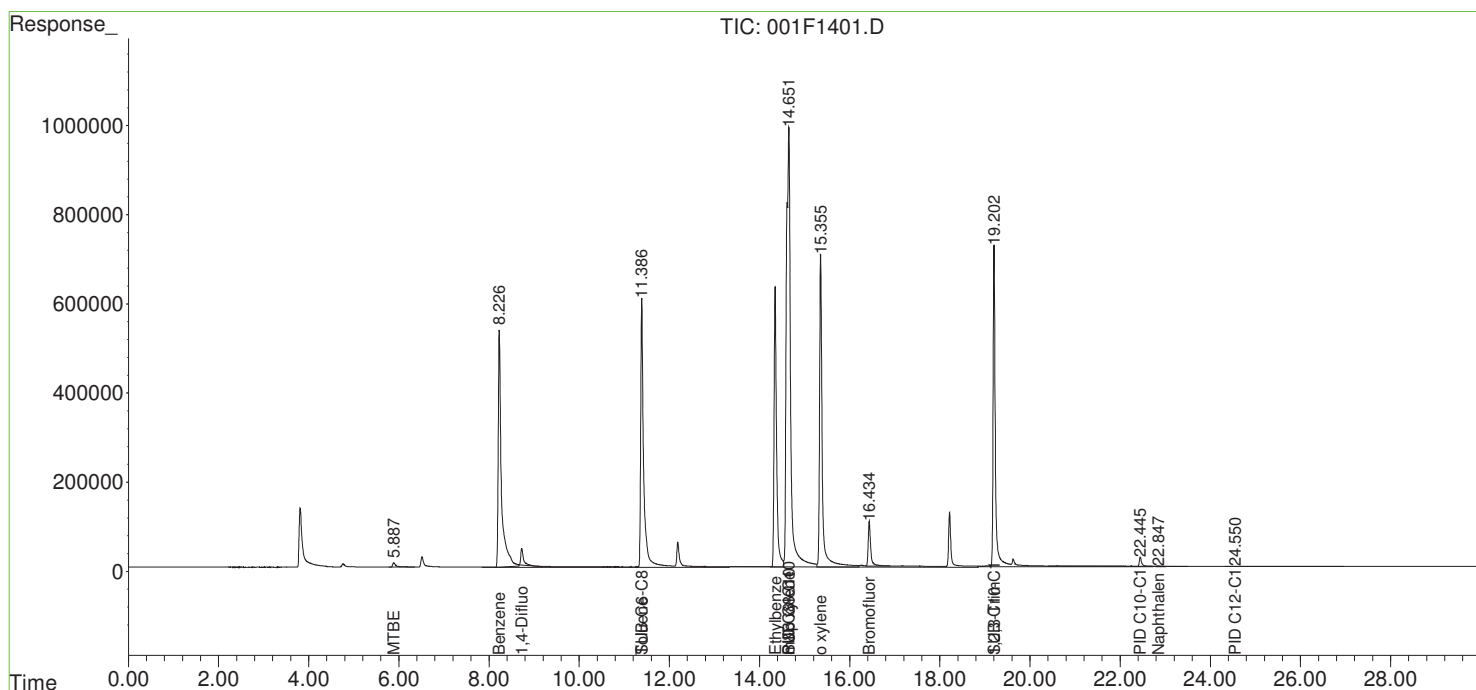
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1401.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 23:14:49
 Operator : BC
 Sample : 1604081-001AMSD
 Misc : MSD O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 11:07:21 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1601.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 13-Apr-2016, 00:25:46
 Operator : BC
 Sample : CCV-B-13429
 Misc : CCV O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:57:06 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene	8.703	1629050	42.405 ug/l m
2) S Bromofluorobenzene	16.428	3398125	41.955 ug/l m
Target Compounds			
3) t MTBE	5.850	629125	312.225 ug/l m
4) t Benzene	8.202	26523755	178.025 ug/l
5) t Toluene	11.374	25793134	178.956 ug/l
6) t Ethylbenzene	14.339	21535542	175.298 ug/l
7) t m&p xylenes	14.644	55001955	346.054 ug/l m
8) t o xylene	15.349	26193203	174.358 ug/l
9) t 1,2,3-Trimethylbenzene	19.200	21599753	176.721 ug/l
10) t Naphthalene	22.845	150604	215.838 ug/l
11) T PID C8-C10	14.644	137683711	684.454 ug/l m
12) T PID C10-C12	22.842f	288606	253.325 ug/l m
13) T PID C12-C13	23.916f	103664	219.798 ug/l m
14) T SUB C6-C8	11.373	58170341	346.996 ug/l m
15) T SUB C8-C10	14.644	111778263	513.215 ug/l m
16) T SUB C10-C12	19.199	23514905	189.748 ug/l m
18) Signal 2 #2	0.000	0	N.D.
19) t MTBE 2	5.857	26224	60.029 ug/l
20) t HEXANE	6.485	342677	218.668 ug/l
21) T FID C5-C6	6.482	664393	494.349 ug/l m
22) T FID C6-C8	11.377	2217635	536.356 ug/l m
23) T FID C8-C10	14.648	3711370	673.954 ug/l m
24) T FID C10-C12	19.205	797432	353.381 ug/l m

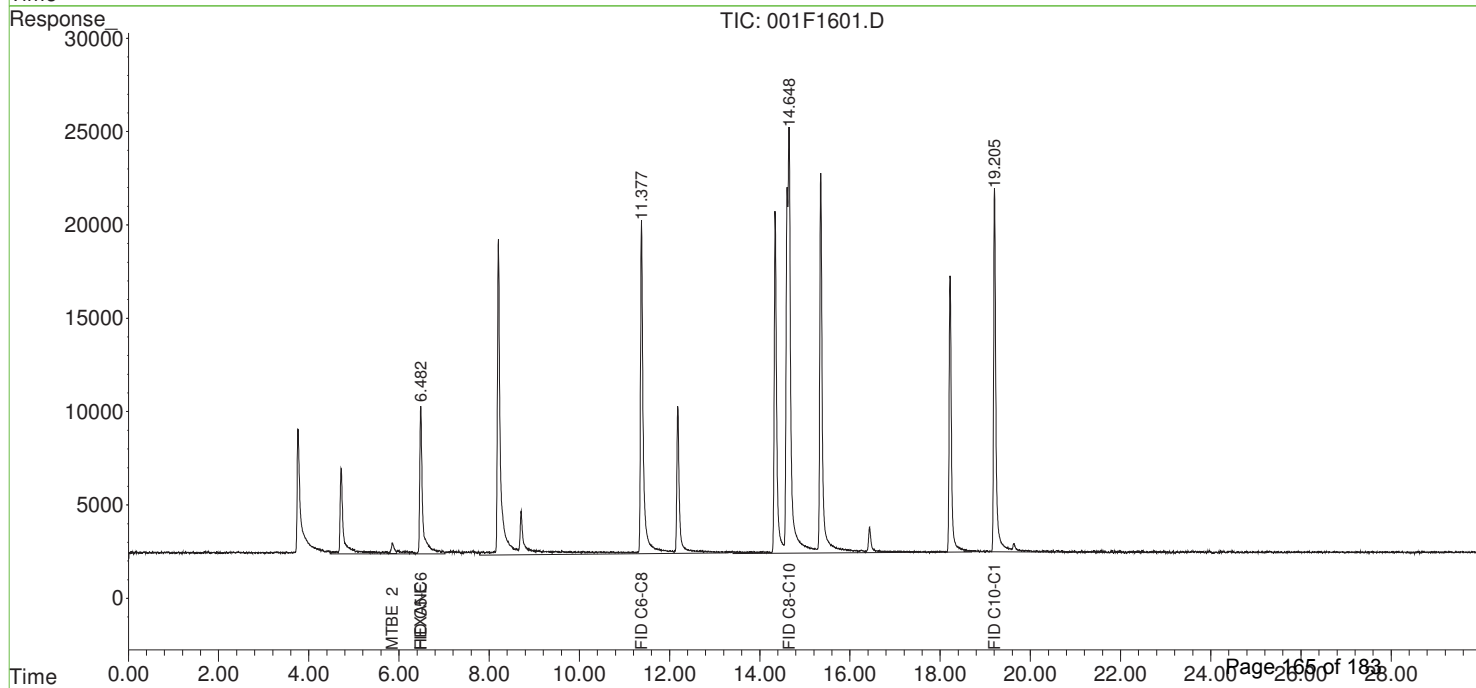
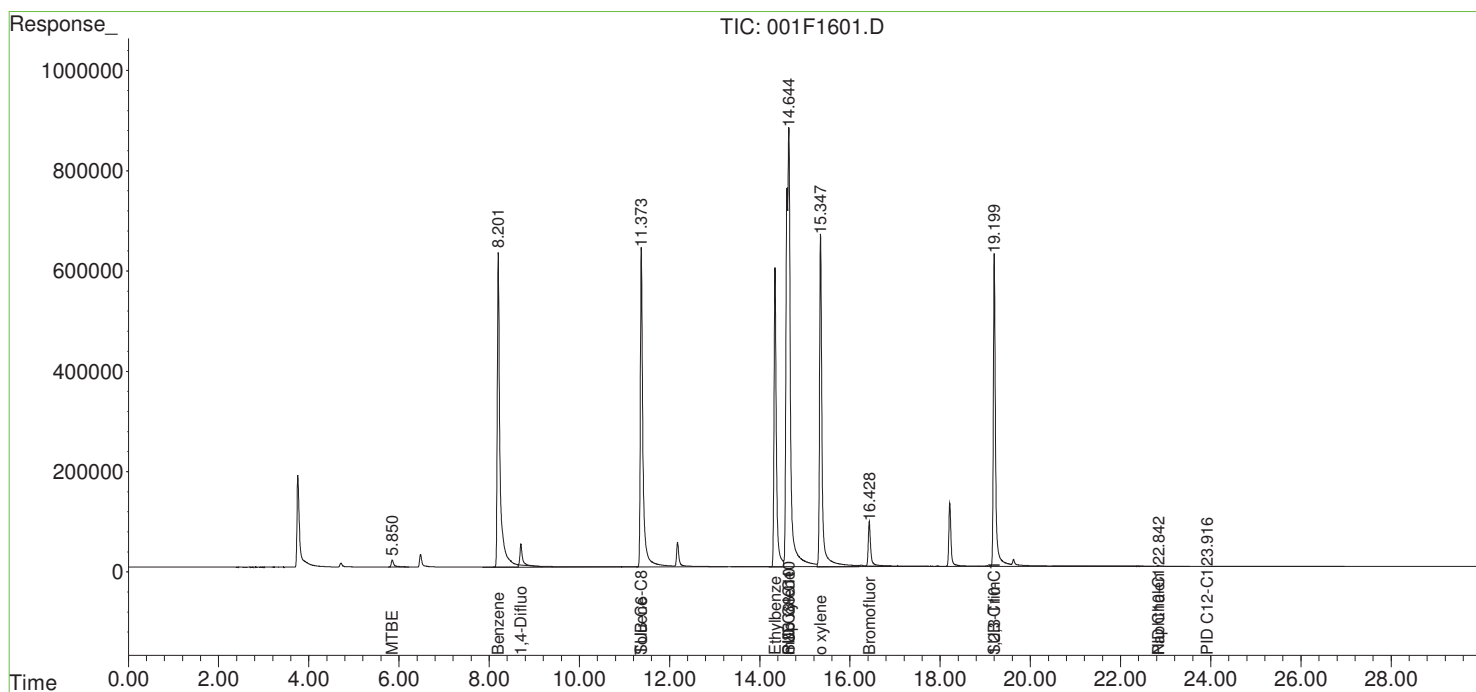
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F1601.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 13-Apr-2016, 00:25:46
 Operator : BC
 Sample : CCV-B-13429
 Misc : CCV O-VPH-S
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
 Integration File signal 2: autoint2.e
 Quant Time: Apr 15 10:57:06 2016
 Quant Method : C:\GC-2\METHODS\QUANT METHODS\VPH QUANT METHOD\VVPH27814.M
 Quant Title : BTEX
 QLast Update : Fri Apr 15 09:42:15 2016
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :





Supporting Data

Fremont Analytical, Inc.

ANALYTICAL RUN Summary

24-May-16

RunNo 28687

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539602	1604078-002A (Container-01 of 01)	PMOIST	SAMP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	36.8471954	36.8471954		0	0	0	0.1	0.5	0	0%	0	0	0%	
Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539603	1604078-002ADUP (Container-01 of 01)	PMOIST	DUP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	539602						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	40.5303030	40.5303030		0	0	36.847195	0.1	0.5	0	0%	0	0	10%	
Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539604	1604078-004A (Container-01 of 01)	PMOIST	SAMP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	27.2347536	27.2347536		0	0	0	0.1	0.5	0	0%	0	0	0%	
Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539605	1604079-002A (Container-01 of 01)	PMOIST	SAMP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	29.5097132	29.5097132		0	0	0	0.1	0.5	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539606	1604080-002A (Container-01 of 01)	PMOIST	SAMP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	32.9070759	32.9070759		0	0	0	0.1	0.5	0	0%	0	0	0%	
Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539607	1604080-004A (Container-01 of 01)	PMOIST	SAMP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	51.0369702	51.0369702		0	0	0	0.1	0.5	0	0%	0	0	0%	
Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539608	1604081-002A (Container-01 of 01)	PMOIST	SAMP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	20.1923077	20.1923077		0	0	0	0.1	0.5	0	0%	0	0	0%	
Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
539609	1604081-004A (Container-01 of 01)	PMOIST	SAMP		4/11/2016 10:17:	1	R28687	4/11/2016 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Percent Moisture	A	wt%	30.7183365	30.7183365		0	0	0	0.1	0.5	0	0%	0	0	0%	

Oven	Oven 3 - Stage One	Analyst	Sam Beerman
Oven Thermometer:	Oven 3 Thermo	Date and Time	4/11/2016
Temp (C): In/Out	105/110	RUN NUMBER	28687
Time in:	10:30 @ 105°C	Cooled for:	
Time Out:	12:30 @ 110		

Pmoist Bench Sheet v. 1
This is an uncontrolled document

641116

Samuel Beerman
Balance 2

Tin #	& Sample ID	Testcode	Initial Weight	Final Weight 1	Comments
1	1604078-002A	PMOIST	10.34	6.53	36.84 PM
2	1604078-002ADUP	PMOIST	10.56	6.28	40.53 PM
3	1604078-004A	PMOIST	11.97	8.71	
4	1604079-002A	PMOIST	10.81	7.62	
5	1604080-002A	PMOIST	11.73	7.67	32.90 PM
6	1604080-004A	PMOIST	11.09	5.43	51.03 PM
7	1604081-002A	PMOIST	11.44	9.13	
8	1604081-004A	PMOIST	10.58	7.33	30.72 PM
9		PMOIST			
10		PMOIST			
11		PMOIST			

Delc Samp.
Reviewed

DK
Ball 3
4/11/16

Fremont Analytical, Inc.

PREP BATCH REPORT

Prep Start Date: **4/11/2016 9:36:29 A**

Prep End Date: **4/15/2016 10:38:00**

Prep Batch ID: **13429** Prep Code: **PREP-VPH-S** Method No: **SW5035** Technician: **Brian Condit**

Prep Factor Units:
mL / g

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
1604078-001A	5237-160328-DC-SE	Sediment			4.19	0	0	5	1.193	4/11/2016	4/11/2016
1604078-003A	5237-160328-DC-SE	Sediment			5.24	0	0	5	0.954	4/11/2016	4/11/2016
1604079-001A	5237-160330-DC-EM	Soil			5.75	0	0	5	0.870	4/11/2016	4/11/2016
1604079-001ADUP		Soil			5.75	0	0	5	0.870	4/11/2016	4/11/2016
1604080-001A	5237-160331-NDP-SE	Sediment			4.84	0	0	5	1.033	4/11/2016	4/11/2016
1604080-003A	5237-160331-NDP-SE	Sediment			4.75	0	0	5	1.053	4/11/2016	4/11/2016
1604081-001A	5237-160401-DC-EM	Soil			6.28	0	0	5	0.796	4/11/2016	4/11/2016
1604081-003A	5237-160401-NDP-E	Soil			5.96	0	0	5	0.839	4/11/2016	4/11/2016
1604081-003AMS		Soil			5.96	0	0	5	0.839	4/11/2016	4/11/2016
1604081-003AMSD		Soil			5.96	0	0	5	0.839	4/11/2016	4/11/2016
MB-13429		Soil			5	0	0	5	1.000	4/11/2016	4/11/2016
LCS-13429		Soil			5	0	0	5	1.000	4/11/2016	4/11/2016
1604078-003ADUP		Sediment			5.24	0	0	5	0.954	4/11/2016	4/15/2016
1604081-001AMS		Soil			6.28	0	0	5	0.796	4/11/2016	4/15/2016
1604081-001AMSD		Soil			6.28	0	0	5	0.796	4/11/2016	4/15/2016

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	420	Reagent Water	1045	#Error	50	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
O-FID-1REF-VPHSTD 01.21.16	WA VPH Standard	LCS	17869	Container-01 of 01	10	µL
O-FID-1REF-VPHSTD 01.21.16	WA VPH Standard	MS	17869	Container-01 of 01	8.6	µL
O-FID-1REF-VPHSTD 01.21.16	WA VPH Standard	MSD	17869	Container-01 of 01	8.6	µL

Equipment ID	Description
Balance-2	B238330459

Fremont Analytical, Inc.

PREP BATCH REPORT

Prep Start Date: **4/11/2016 9:36:29 A**

Prep End Date: **4/15/2016 10:38:00**

Prep Batch ID: **13429** Prep Code: **PREP-VPH-S** Method No: **SW5035**

Technician: **Brian Condit**

Prep Factor Units:

mL / g

Initial Temp: **°C** Final Temp **°C**

Pipette 18

Gilson 1 mL pipette

Fremont Analytical, Inc.

Standard LOG

Standard ID: O-VPH-CALSET 0
 Standard Name: VPH CAL SET 17869
 Date Prepared: 3/2/2016
 Date Expires: 8/29/2016
 Department: GC-FUELS
 Vendor:
 Lot Number: Final Volume: 0 mL

Type: Tertiary
 BY: Brian Condit

Comments: Calibration Made by diluting 50ml Reagent Water with 0.5ul (10.0ppb), 1.0ul (20.0ppb) 2.5ul (50.0ppb), 5.0ul (100ppb), 10.0ul (200ppb), 25.0ul (500ppb), 50.0ul (1000ppb) in a class A volumetric flask. GC-2

Chemicals / Reagents

Type	Chem / Regt ID	Chemical / Reagent	Cont. No.	Container ID	Amount Added
Chemical	420	Reagent Water	1045	Container-01 of 01	50 mL

Stock Source

Stock ID	Stock Name	Base Units	Amount Added
O-FID-1REF-VPHS WA VPH Standard			
O-FID-1REF-VPHS WA VPH Standard			10 µL
O-GX-2SURR 02-2 GX SURR 25 mg/L			

Analytes

Analyte	CAS	Conc:
1,2,3-trimethylbenzene		0
1,4-Difluorobenzene		0
1-Bromo-4-fluorobenzene (BFB)		0
1-methylnaphthalene		0
A Ethylbenzene	100-41-4	0
A m,p-Xylene	179601-23-1	0
A Naphthalene	91-20-3	0
A o-Xylene	95-47-6	0
A tert-Butyl Methyl Ether	1634-04-4	0
A Toluene	108-88-3	0
A VPH: Aliphatic Hydrocarbon (C10-C12)		0
A VPH: Aliphatic Hydrocarbon (C5-C6)		0
A VPH: Aliphatic Hydrocarbon (C6-C8)		0
A VPH: Aliphatic Hydrocarbon (C8-C10)		0
A VPH: Aromatic Hydrocarbon (C10-C12)		0
A VPH: Aromatic Hydrocarbon (C12-C13)		0
A VPH: Aromatic Hydrocarbon (C8-C10)		0

Containers

Cont. No.	Container ID	Storage	Volume	Status	Date Disposed
18012	Container-01 of 01		0 mL	Opened	

Fremont Analytical, Inc.

Standard LOG

Standard ID: O-FID-1REF-VPHS
 Standard Name: WA VPH Standard
 Date Prepared: 1/21/2016
 Date Expires: 8/30/2022
 Department: GC
 Vendor: Restek
 Lot Number: A0112476
 Type: Primary
 BY: Samantha Beerma
 Final Volume: 0 mL
 Comments: 1000 µg/mL each in P&T Methanol

Chemicals / Reagents

Type	Chem / Regt ID	Chemical / Reagent	Cont. No.	Container ID	Amount Added
------	----------------	--------------------	-----------	--------------	--------------

Stock Source

Stock ID	Stock Name	Base Units	Amount Added
----------	------------	------------	--------------

Analytes

Analyte	CAS	Conc:	µg/mL
1,2,3-trimethylbenzene			1000
1-methylnaphthalene			1000
A Ethylbenzene	100-41-4		1000
A m,p-Xylene	179601-23-1		1000
A Naphthalene	91-20-3		1000
A o-Xylene	95-47-6		1000
A tert-Butyl Methyl Ether	1634-04-4		1000
A Toluene	108-88-3		1000
A VPH: Aliphatic Hydrocarbon (C10-C12)			1000
A VPH: Aliphatic Hydrocarbon (C5-C6)			1000
A VPH: Aliphatic Hydrocarbon (C6-C8)			1000
A VPH: Aliphatic Hydrocarbon (C8-C10)			1000
A VPH: Aromatic Hydrocarbon (C10-C12)			1000
A VPH: Aromatic Hydrocarbon (C12-C13)			1000
A VPH: Aromatic Hydrocarbon (C8-C10)			1000

Containers

Cont. No.	Container ID	Storage	Volume	Status	Date Disposed
17869	Container-01 of 01		1 mL	Opened	



CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis



www.restek.com

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. : 30451 Lot No.: A0112476

Description : WA VPH Standard
WA VPH Std 1000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : August 31, 2022 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	n-Pentane (C5) CAS # 109-66-0 Purity 99% (Lot SHBF0815V)	1,006.0 µg/mL	+/-	5.9038	µg/mL Gravimetric
			+/-	23.5136	µg/mL Unstressed
			+/-	24.0043	µg/mL Stressed
2	n-Hexane (C6) CAS # 110-54-3 Purity 99% (Lot SHBF132V)	1,000.0 µg/mL	+/-	5.8686	µg/mL Gravimetric
			+/-	23.3733	µg/mL Unstressed
			+/-	23.8611	µg/mL Stressed
3	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 Purity 99% (Lot SHBF1193V)	1,007.0 µg/mL	+/-	5.9096	µg/mL Gravimetric
			+/-	23.5369	µg/mL Unstressed
			+/-	24.0281	µg/mL Stressed
4	n-Octane (C8) CAS # 111-65-9 Purity 99% (Lot SHBF6351V)	1,008.0 µg/mL	+/-	5.9155	µg/mL Gravimetric
			+/-	23.5603	µg/mL Unstressed
			+/-	24.0520	µg/mL Stressed
5	Benzene CAS # 71-43-2 Purity 99% (Lot SHBF0424V)	1,003.0 µg/mL	+/-	5.8862	µg/mL Gravimetric
			+/-	23.4434	µg/mL Unstressed
			+/-	23.9327	µg/mL Stressed
6	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBG1119V)	1,006.5 µg/mL	+/-	5.9067	µg/mL Gravimetric
			+/-	23.5253	µg/mL Unstressed
			+/-	24.0162	µg/mL Stressed
7	Toluene CAS # 108-88-3 Purity 99% (Lot SHBF2730V)	1,004.5 µg/mL	+/-	5.8950	µg/mL Gravimetric
			+/-	23.4785	µg/mL Unstressed
			+/-	23.9685	µg/mL Stressed

8	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBD6720V)	1,004.5 µg/mL	+/- 5.8950 +/- 23.4785 +/- 23.9685	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBF3427V)	1,004.5 µg/mL	+/- 5.8950 +/- 23.4785 +/- 23.9685	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBF8095V)	1,005.0 µg/mL	+/- 5.8979 +/- 23.4902 +/- 23.9804	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	(Lot SHBB9864V)	1,000.0 µg/mL	+/- 5.8686 +/- 23.3733 +/- 23.8611	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	o-Xylene CAS # 95-47-6 Purity 98%	(Lot SHBC8668V)	999.1 µg/mL	+/- 5.8633 +/- 23.3525 +/- 23.8399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 97%	(Lot 877605-14)	1,004.4 µg/mL	+/- 5.8946 +/- 23.4770 +/- 23.9669	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBH4351V)	1,000.0 µg/mL	+/- 5.8686 +/- 23.3733 +/- 23.8611	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	1-Methylnaphthalene CAS # 90-12-0 Purity 99%	(Lot 525000-10)	1,003.0 µg/mL	+/- 5.8862 +/- 23.4434 +/- 23.9327	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .53mm x 1.5µm
Stabilwax (cat.#10672)

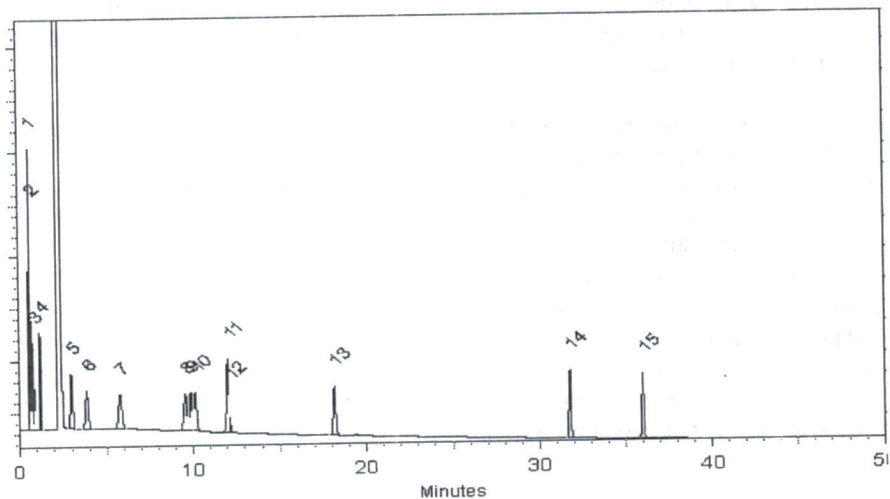
Carrier Gas:
hydrogen-constant pressure 20 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 4°C/min. (hold 10 min.)


Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

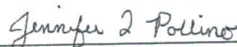


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


F. Joseph Tallon - Mix Technician

Date Mixed: 10-Jul-2015

Balance: B251644995


Jennifer L. Pollino - QC Analyst

Date Passed: 15-Jul-2015

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

Fremont Analytical, Inc.

Standard LOG

Standard ID: O-FID-1REF-VPHS
 Standard Name: WA VPH Standard Type: Primary
 Date Prepared: 8/3/2015 BY: Samantha Beerma
 Date Expires: 11/30/2021
 Department: GC
 Vendor: Restek
 Lot Number: A0106735 Final Volume: 0 mL
 Comments: 1000 µg/mL each in P&T Methanol

Chemicals / Reagents

Type	Chem / Regt ID	Chemical / Reagent	Cont. No.	Container ID	Amount Added
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Stock Source

Stock ID	Stock Name	Base Units	Amount Added
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Analytes

Analyte	CAS	Conc:	µg/mL
1,2,3-trimethylbenzene			1000
1-methylnaphthalene			1000
A Ethylbenzene	100-41-4		1000
A m,p-Xylene	179601-23-1		1000
A Naphthalene	91-20-3		1000
A o-Xylene	95-47-6		1000
A tert-Butyl Methyl Ether	1634-04-4		1000
A Toluene	108-88-3		1000
A VPH: Aliphatic Hydrocarbon (C10-C12)			1000
A VPH: Aliphatic Hydrocarbon (C5-C6)			1000
A VPH: Aliphatic Hydrocarbon (C6-C8)			1000
A VPH: Aliphatic Hydrocarbon (C8-C10)			1000
A VPH: Aromatic Hydrocarbon (C10-C12)			1000
A VPH: Aromatic Hydrocarbon (C12-C13)			1000
A VPH: Aromatic Hydrocarbon (C8-C10)			1000

Containers

Cont. No.	Container ID	Storage	Volume	Status	Date Disposed
17311	Container-01 of 01		1000 µg/m	Opened	

17311



CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30451 **Lot No.:** A0106735
Description : WA VPH Standard
WA VPH Std 1000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	n-Pentane (C5)	1,002.5 µg/mL (Lot DG879)	+/-	5.8832	µg/mL	Gravimetric
	CAS # 109-66-0		+/-	23.4318	µg/mL	Unstressed
	Purity 99%		+/-	23.9208	µg/mL	Stressed
2	n-Hexane (C6)	1,003.5 µg/mL (Lot SHBD5387V)	+/-	5.8891	µg/mL	Gravimetric
	CAS # 110-54-3		+/-	23.4551	µg/mL	Unstressed
	Purity 99%		+/-	23.9446	µg/mL	Stressed
3	Methyl-tert-butyl ether (MTBE)	1,002.0 µg/mL (Lot SHBD2980V)	+/-	5.8803	µg/mL	Gravimetric
	CAS # 1634-04-4		+/-	23.4201	µg/mL	Unstressed
	Purity 99%		+/-	23.9088	µg/mL	Stressed
4	n-Octane (C8)	1,001.5 µg/mL (Lot SHBC2265V)	+/-	5.8774	µg/mL	Gravimetric
	CAS # 111-65-9		+/-	23.4084	µg/mL	Unstressed
	Purity 99%		+/-	23.8969	µg/mL	Stressed
5	Benzene	1,003.0 µg/mL (Lot SHBC0832V)	+/-	5.8862	µg/mL	Gravimetric
	CAS # 71-43-2		+/-	23.4434	µg/mL	Unstressed
	Purity 99%		+/-	23.9327	µg/mL	Stressed
6	n-Decane (C10)	1,004.5 µg/mL (Lot SHBC4624V)	+/-	5.8950	µg/mL	Gravimetric
	CAS # 124-18-5		+/-	23.4785	µg/mL	Unstressed
	Purity 99%		+/-	23.9685	µg/mL	Stressed
7	Toluene	1,002.5 µg/mL (Lot DI125)	+/-	5.8832	µg/mL	Gravimetric
	CAS # 108-88-3		+/-	23.4318	µg/mL	Unstressed
	Purity 99%		+/-	23.9208	µg/mL	Stressed
8	Ethylbenzene	1,001.5 µg/mL (Lot SHBD6720V)	+/-	5.8774	µg/mL	Gravimetric
	CAS # 100-41-4		+/-	23.4084	µg/mL	Unstressed
	Purity 99%		+/-	23.8969	µg/mL	Stressed

9	p-Xylene		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS #	106-42-3	(Lot SHBC5759V)		+/-	23.4434	µg/mL	Unstressed
	Purity	99%			+/-	23.9327	µg/mL	Stressed
10	m-Xylene		1,004.0	µg/mL	+/-	5.8920	µg/mL	Gravimetric
	CAS #	108-38-3	(Lot H08Y016)		+/-	23.4668	µg/mL	Unstressed
	Purity	99%			+/-	23.9566	µg/mL	Stressed
11	n-Dodecane (C12)		1,004.0	µg/mL	+/-	5.8920	µg/mL	Gravimetric
	CAS #	112-40-3	(Lot SHBB9864V)		+/-	23.4668	µg/mL	Unstressed
	Purity	99%			+/-	23.9566	µg/mL	Stressed
12	o-Xylene		1,007.4	µg/mL	+/-	5.9122	µg/mL	Gravimetric
	CAS #	95-47-6	(Lot SHBC8668V)		+/-	23.5472	µg/mL	Unstressed
	Purity	98%			+/-	24.0386	µg/mL	Stressed
13	1,2,3-Trimethylbenzene		1,004.4	µg/mL	+/-	5.8946	µg/mL	Gravimetric
	CAS #	526-73-8	(Lot 877605-10)		+/-	23.4770	µg/mL	Unstressed
	Purity	97%			+/-	23.9669	µg/mL	Stressed
14	Naphthalene		1,002.0	µg/mL	+/-	5.8803	µg/mL	Gravimetric
	CAS #	91-20-3	(Lot MKBH4351V)		+/-	23.4201	µg/mL	Unstressed
	Purity	99%			+/-	23.9088	µg/mL	Stressed
15	1-Methylnaphthalene		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS #	90-12-0	(Lot 525000-10)		+/-	23.4434	µg/mL	Unstressed
	Purity	99%			+/-	23.9327	µg/mL	Stressed
Solvent:	P&T Methanol							
	CAS #	67-56-1						
	Purity	99%						

Fremont Analytical, Inc.

Spike LOG

Standard ID: O-GX-2SURR 02-2
 Standard Name: GX SURR 25 mg/L
 Date Prepared: 2/23/2016
 Date Expires: 8/21/2016
 Department: GC
 Vendor:
 Lot Number:
 Comments: GC 2

Type: Secondary
 BY: Brian Condit

Final Volume: 0 mL

Chemicals / Reagents

Type	Chem / Regt ID	Chemical / Reagent	Cont. No.	Container ID	Amount Added
Chemical	556	Methanol	1531	Container-01 of 06	4.95 mL

Stock Source

Stock ID	Stock Name	Base Units	Amount Added
O-GX-1SURR 11/2	NWTPH-Gx Surrogate Mix		50 µL

Analytes

Analyte	CAS	Conc:	µg/mL
1,4-Difluorobenzene			25
1-Bromo-4-fluorobenzene (BFB)			25

Containers

Cont. No.	Container ID	Storage	Volume	Status	Date Disposed
17972	Container-01 of 03		0 mL	Opened	
17973	Container-02 of 03		0 mL	Opened	
17974	Container-03 of 03		0 mL	Opened	

Fremont Analytical, Inc.

Spike LOG

Standard ID: O-GX-1SURR 11/2
 Standard Name: NWTPH-Gx Surrogate Mix
 Date Prepared: 11/25/2014
 Date Expires: 11/14/2019
 Department: GC
 Vendor: Restek
 Lot Number: A0107205
 Comments: 2500 µg/mL In MeOH

Type: Primary
 BY: Kerra Ziegler

Final Volume: 0 mL

Chemicals / Reagents

Type	Chem / Regt ID	Chemical / Reagent	Cont. No.	Container ID	Amount Added
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Stock Source

Stock ID	Stock Name	Base Units	Amount Added
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Analytes

Analyte	CAS	Conc:	µg/mL
S 1,4-Difluorobenzene	540-36-3		2500
S 1-Bromo-4-fluorobenzene (BFB)	460-00-4		2500

Containers

Cont. No.	Container ID	Storage	Volume	Status	Date Disposed
6249	Container-01 of 01		2 mL	Opened	



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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Certificate of Analysis



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Catalog No. : 30455 **Lot No.:** A0107205

Description : NWTPH-Gx Surrogate Mix
NWTPH-Gx Surrogate 2500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Difluorobenzene	2,504.0 µg/mL	+/-	23.2859	µg/mL	Gravimetric
	CAS # 540-36-3 (Lot MKBN8571V)		+/-	33.5792	µg/mL	Unstressed
	Purity 99%		+/-	37.2289	µg/mL	Stressed
2	1-Bromo-4-fluorobenzene (BFB)	2,508.0 µg/mL	+/-	23.3231	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/-	33.6329	µg/mL	Unstressed
	Purity 99%		+/-	37.2884	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

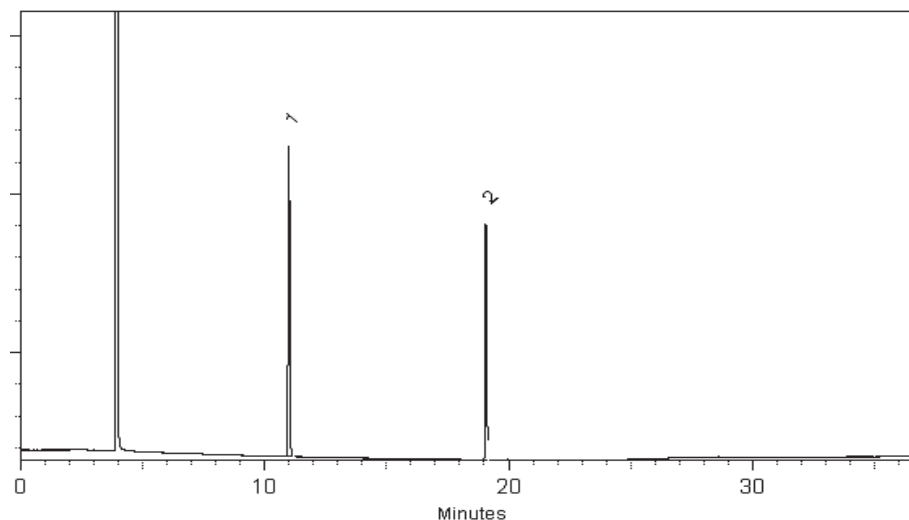
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis

Cathleen Soltis - Mix Technician

Date Mixed: 13-Nov-2014

Balance: B251644995

Diane Shaffer

Diane Shaffer - QA Analyst

Date Passed: 17-Nov-2014

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