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Apex Laboratories
Philip Nerenberg
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RE: A6C1076
Lab ID: 1604078

April 27, 2016

Attention Philip Nerenberg:

Fremont Analytical, Inc. received 4 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: 04/28/2016

CLIENT: Apex Laboratories
Project: A6C1076
Lab Order: 1604078

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------------|---------------------|---------------------|
| 1604078-001 | 5237-160328-DC-SED075G | 03/28/2016 12:50 PM | 04/09/2016 12:34 PM |
| 1604078-002 | 5237-160328-DC-SED075 | 03/28/2016 12:50 PM | 04/09/2016 12:34 PM |
| 1604078-003 | 5237-160328-DC-SED087G | 03/28/2016 2:45 PM | 04/09/2016 12:34 PM |
| 1604078-004 | 5237-160328-DC-SED087 | 03/28/2016 2:45 PM | 04/09/2016 12:34 PM |

CLIENT: Apex Laboratories**Project:** A6C1076

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#: 1604078
Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/28/2016 12:50:00 PM

Project: A6C1076

Lab ID: 1604078-001

Matrix: Sediment

Client Sample ID: 5237-160328-DC-SED075G

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 13429

Analyst: BC

| | | | | | | |
|---------------------------------|------|--------|----|-------|---|----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.39 | QH | mg/Kg | 1 | 4/12/2016 5:56:22 PM |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.39 | H | mg/Kg | 1 | 4/12/2016 5:56:22 PM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.39 | H | mg/Kg | 1 | 4/12/2016 5:56:22 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.39 | H | mg/Kg | 1 | 4/12/2016 5:56:22 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.39 | H | mg/Kg | 1 | 4/12/2016 5:56:22 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.39 | H | mg/Kg | 1 | 4/12/2016 5:56:22 PM |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.39 | H | mg/Kg | 1 | 4/12/2016 5:56:22 PM |
| Surr: 1,4-Difluorobenzene | 92.4 | 65-140 | H | %Rec | 1 | 4/12/2016 5:56:22 PM |
| Surr: Bromofluorobenzene | 80.6 | 65-140 | H | %Rec | 1 | 4/12/2016 5:56:22 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#: 1604078
Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/28/2016 12:50:00 PM

Project: A6C1076

Lab ID: 1604078-002

Matrix: Sediment

Client Sample ID: 5237-160328-DC-SED075

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 13403

Analyst: CM

| | | | | | | |
|---------------------------------|------|--------|---|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 6.98 | | mg/Kg-dry | 1 | 4/22/2016 9:51:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 6.98 | | mg/Kg-dry | 1 | 4/22/2016 9:51:00 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 6.98 | | mg/Kg-dry | 1 | 4/22/2016 9:51:00 PM |
| Aliphatic Hydrocarbon (C16-C21) | 17.2 | 6.98 | | mg/Kg-dry | 1 | 4/22/2016 9:51:00 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 6.98 | | mg/Kg-dry | 1 | 4/22/2016 9:51:00 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 6.98 | | mg/Kg-dry | 1 | 4/23/2016 9:52:00 AM |
| Aromatic Hydrocarbon (C10-C12) | ND | 6.98 | | mg/Kg-dry | 1 | 4/23/2016 9:52:00 AM |
| Aromatic Hydrocarbon (C12-C16) | ND | 6.98 | | mg/Kg-dry | 1 | 4/23/2016 9:52:00 AM |
| Aromatic Hydrocarbon (C16-C21) | 7.18 | 6.98 | | mg/Kg-dry | 1 | 4/23/2016 9:52:00 AM |
| Aromatic Hydrocarbon (C21-C34) | ND | 6.98 | | mg/Kg-dry | 1 | 4/23/2016 9:52:00 AM |
| Surr: 1-Chlorooctadecane | 24.5 | 60-140 | S | %Rec | 1 | 4/22/2016 9:51:00 PM |
| Surr: o-Terphenyl | 62.7 | 60-140 | | %Rec | 1 | 4/23/2016 9:52:00 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 | 36.8 | 0.500 | | wt% | 1 | 4/11/2016 10:17:14 AM |
|------------------|------|-------|--|-----|---|-----------------------|



Analytical Report

WO#: 1604078
Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/28/2016 2:45:00 PM

Project: A6C1076

Lab ID: 1604078-003

Matrix: Sediment

Client Sample ID: 5237-160328-DC-SED087G

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 13429

Analyst: BC

| | | | | | | |
|---------------------------------|------|--------|----|-------|---|----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.91 | QH | mg/Kg | 1 | 4/12/2016 6:31:36 PM |
| Aliphatic Hydrocarbon (C6-C8) | ND | 1.91 | H | mg/Kg | 1 | 4/12/2016 6:31:36 PM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 1.91 | H | mg/Kg | 1 | 4/12/2016 6:31:36 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 1.91 | H | mg/Kg | 1 | 4/12/2016 6:31:36 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 1.91 | H | mg/Kg | 1 | 4/12/2016 6:31:36 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 1.91 | H | mg/Kg | 1 | 4/12/2016 6:31:36 PM |
| Aromatic Hydrocarbon (C12-C13) | ND | 1.91 | H | mg/Kg | 1 | 4/12/2016 6:31:36 PM |
| Surr: 1,4-Difluorobenzene | 97.9 | 65-140 | H | %Rec | 1 | 4/12/2016 6:31:36 PM |
| Surr: Bromofluorobenzene | 82.2 | 65-140 | H | %Rec | 1 | 4/12/2016 6:31:36 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#: 1604078

Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/28/2016 2:45:00 PM

Project: A6C1076

Lab ID: 1604078-004

Matrix: Sediment

Client Sample ID: 5237-160328-DC-SED087

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 13403

Analyst: CM

| | | | | | | |
|---------------------------------|------|--------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 6.19 | | mg/Kg-dry | 1 | 4/22/2016 10:37:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 6.19 | | mg/Kg-dry | 1 | 4/22/2016 10:37:00 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 6.19 | | mg/Kg-dry | 1 | 4/22/2016 10:37:00 PM |
| Aliphatic Hydrocarbon (C16-C21) | 14.8 | 6.19 | | mg/Kg-dry | 1 | 4/22/2016 10:37:00 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 6.19 | | mg/Kg-dry | 1 | 4/22/2016 10:37:00 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 6.19 | | mg/Kg-dry | 1 | 4/23/2016 10:37:00 AM |
| Aromatic Hydrocarbon (C10-C12) | ND | 6.19 | | mg/Kg-dry | 1 | 4/23/2016 10:37:00 AM |
| Aromatic Hydrocarbon (C12-C16) | ND | 6.19 | | mg/Kg-dry | 1 | 4/23/2016 10:37:00 AM |
| Aromatic Hydrocarbon (C16-C21) | 9.26 | 6.19 | | mg/Kg-dry | 1 | 4/23/2016 10:37:00 AM |
| Aromatic Hydrocarbon (C21-C34) | ND | 6.19 | | mg/Kg-dry | 1 | 4/23/2016 10:37:00 AM |
| Surr: 1-Chlorooctadecane | 40.7 | 60-140 | S | %Rec | 1 | 4/22/2016 10:37:00 PM |
| Surr: o-Terphenyl | 63.4 | 60-140 | | %Rec | 1 | 4/23/2016 10:37:00 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 | 27.2 | 0.500 | | wt% | 1 | 4/11/2016 10:17:14 AM |
|------------------|------|-------|--|-----|---|-----------------------|

Work Order: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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 | | | | |

Work Order: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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 | | | | |

Work Order: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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 |

Work Order: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|------------|------------------------|-----------|--------------|-------------|------------------|----------------|------------------|-------------|---------------|----------|------|
| 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 |

NOTES:

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

| | | | | | | | | | | | |
|---------------------------------|-----------------|-----------|--------------|-------------|--------------|----------------|------------------|-------------|---------------|----------|------|
| 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 | | | | |

Work Order: 1604078
CLIENT: Apex Laboratories
Project: A6C1076

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: 4/23/2016 | 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 | | | | |

| 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 | | |

Work Order: 1604078
CLIENT: Apex Laboratories
Project: A6C1076

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

| 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 | | | | |



Work Order: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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: 5237-160328-DC-SED08 | 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: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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).

Work Order: 1604078
 CLIENT: Apex Laboratories
 Project: A6C1076

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: 1604078
CLIENT: Apex Laboratories
Project: A6C1076

QC SUMMARY REPORT
Sample Moisture (Percent Moisture)

| Sample ID | 1604078-002ADUP | SampType: | DUP | Units: | wt% | Prep Date: | 4/11/2016 | RunNo: | 28687 | | |
|------------------|-----------------------------|-----------|---------------|----------------|------------------|------------|------------------|-------------|--------------|----------|------|
| Client ID: | 5237-160328-DC-SED07 | 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: **1604078**
 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
A6C1076**

11604078

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: 5237-160328-DC-SED075G **Sedimen** **Sampled: 03/28/16 12:50** **Sediment 3 bgs** **(A6C1076-11)**

| Analysis | Due | Expires | Comments |
|---|----------------|----------------|--------------------|
| NWTPH-VPH (Sub) <i>Containers Supplied:</i> (B)40 mL VOA - 5035 (MeOH) | 04/11/16 17:00 | 04/11/16 12:50 | level IV DP needed |

Sample Name: 5237-160328-DC-SED075 **Sedimen** **Sampled: 03/28/16 12:50** **Sediment 0 to 6 bgs** **(A6C1076-12)**

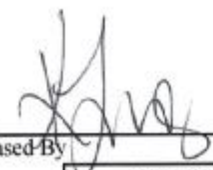

| Analysis | Due | Expires | Comments |
|--|----------------|----------------|--------------------|
| NWTPH-EPH (Sub) <i>Containers Supplied:</i> (F)4 oz Glass Jar | 04/11/16 17:00 | 04/11/16 12:50 | Level IV DP needed |

Sample Name: 5237-160328-DC-SED087G **Sedimen** **Sampled: 03/28/16 14:45** **Sediment 3 bgs** **(A6C1076-21)**

| Analysis | Due | Expires | Comments |
|---|----------------|----------------|--------------------|
| NWTPH-VPH (Sub) <i>Containers Supplied:</i> (B)40 mL VOA - 5035 (MeOH) | 04/11/16 17:00 | 04/11/16 14:45 | level IV DP needed |

Sample Name: 5237-160328-DC-SED087 **Sedimen** **Sampled: 03/28/16 14:45** **Sediment 0 to 6 bgs** **(A6C1076-22)**

| Analysis | Due | Expires | Comments |
|--|----------------|----------------|--------------------|
| NWTPH-EPH (Sub) <i>Containers Supplied:</i> (H)4 oz Glass Jar | 04/11/16 17:00 | 04/11/16 14:45 | Level IV DP needed |

Released By:  Date: 4/8/16
Received By:  Date: 4/9/16

UPS (Shipper) UPS (Shipper)

DATA SET for Review -- Deliverable Requirements

EPH by NWTPH-EPH

Fremont Analytical Work Order No. 1604078

APEX Laboratories

Project Name: A6C1076

This Data set contains the following:

- Method Detection Limits
- Analytical Sequence Summary for **Work Order 1604078**
- Raw Printouts and Chromatograms for Analytical Sequence(s) governing **Work Order 1604078** 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

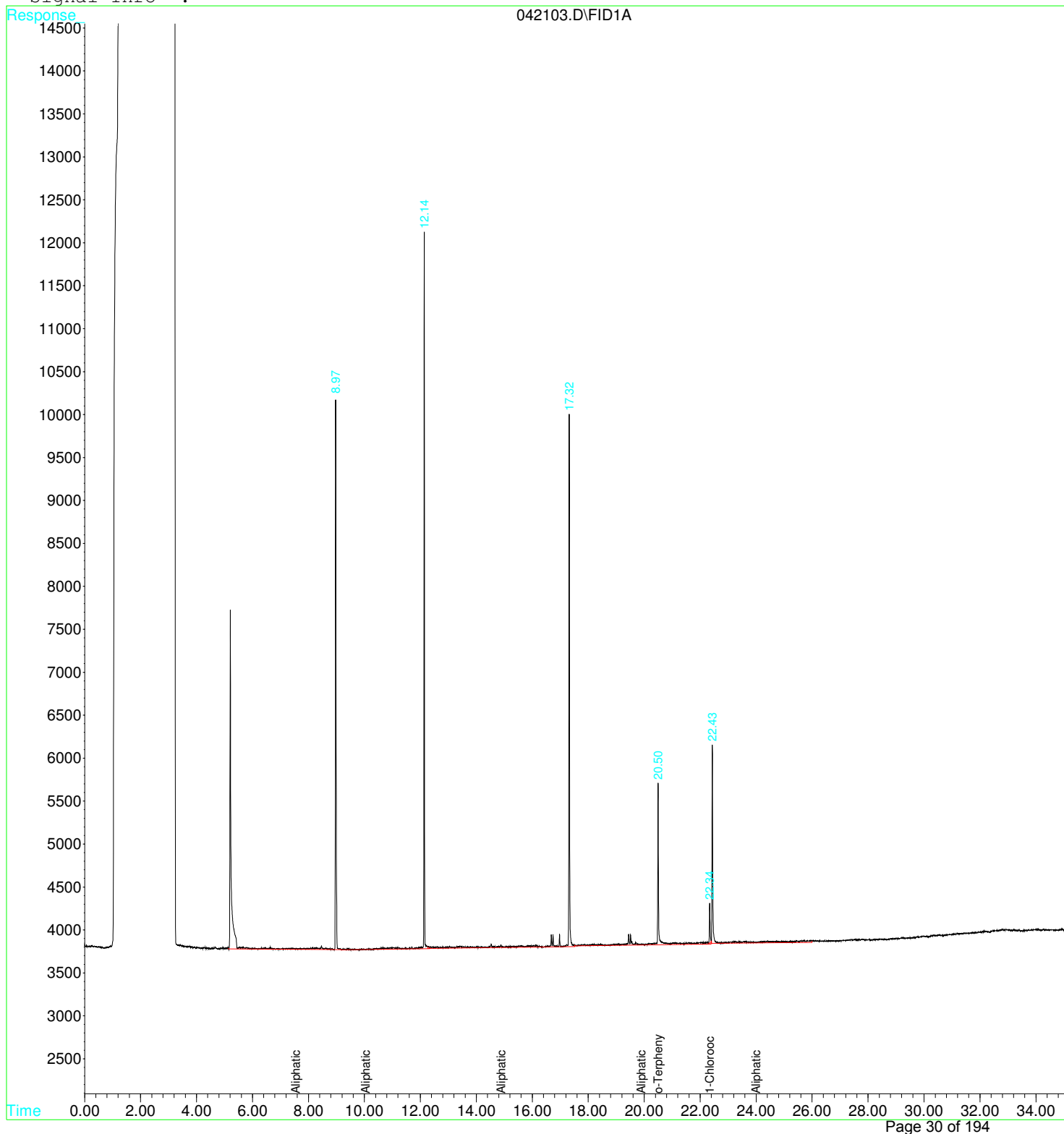
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

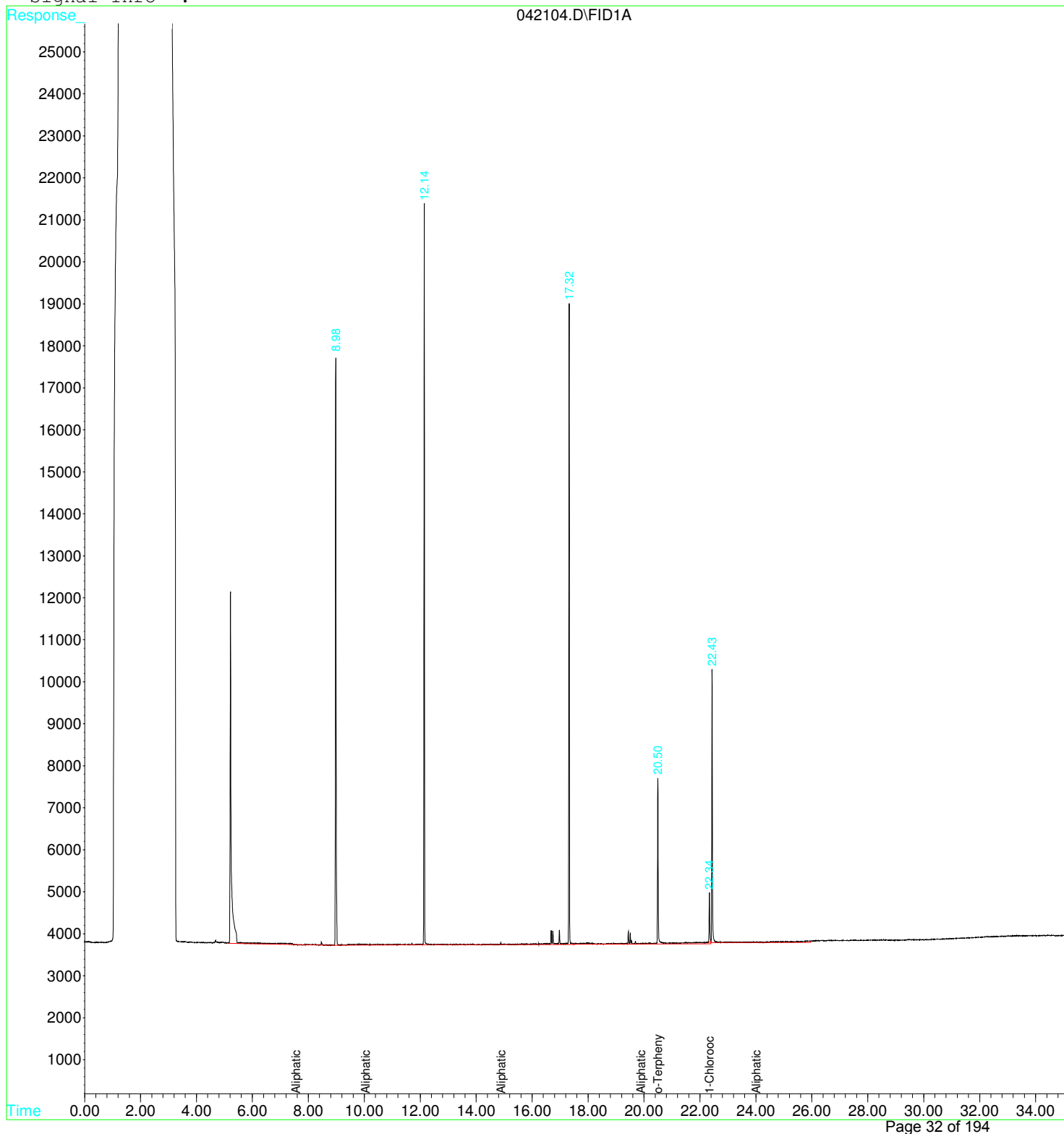
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

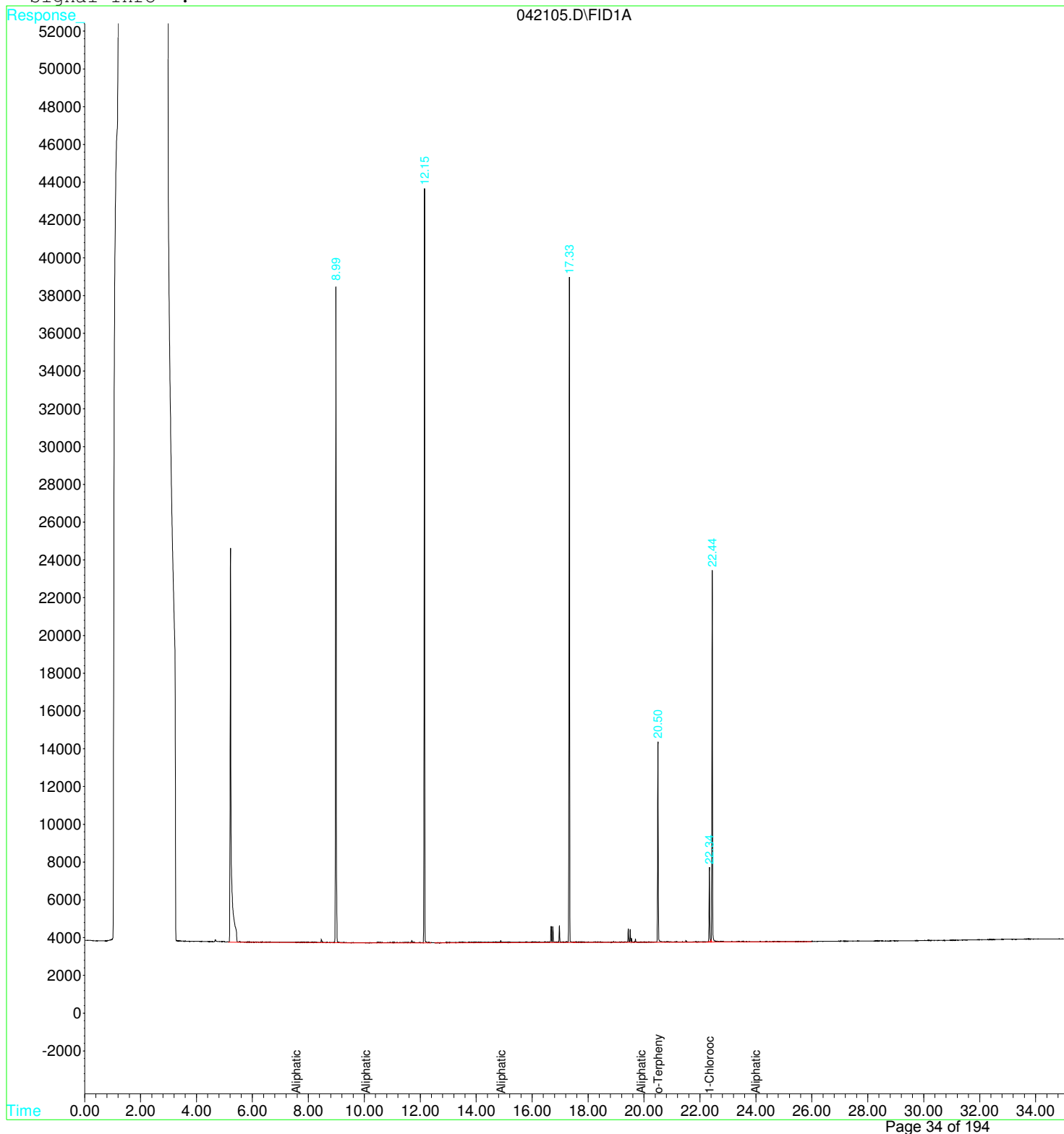
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

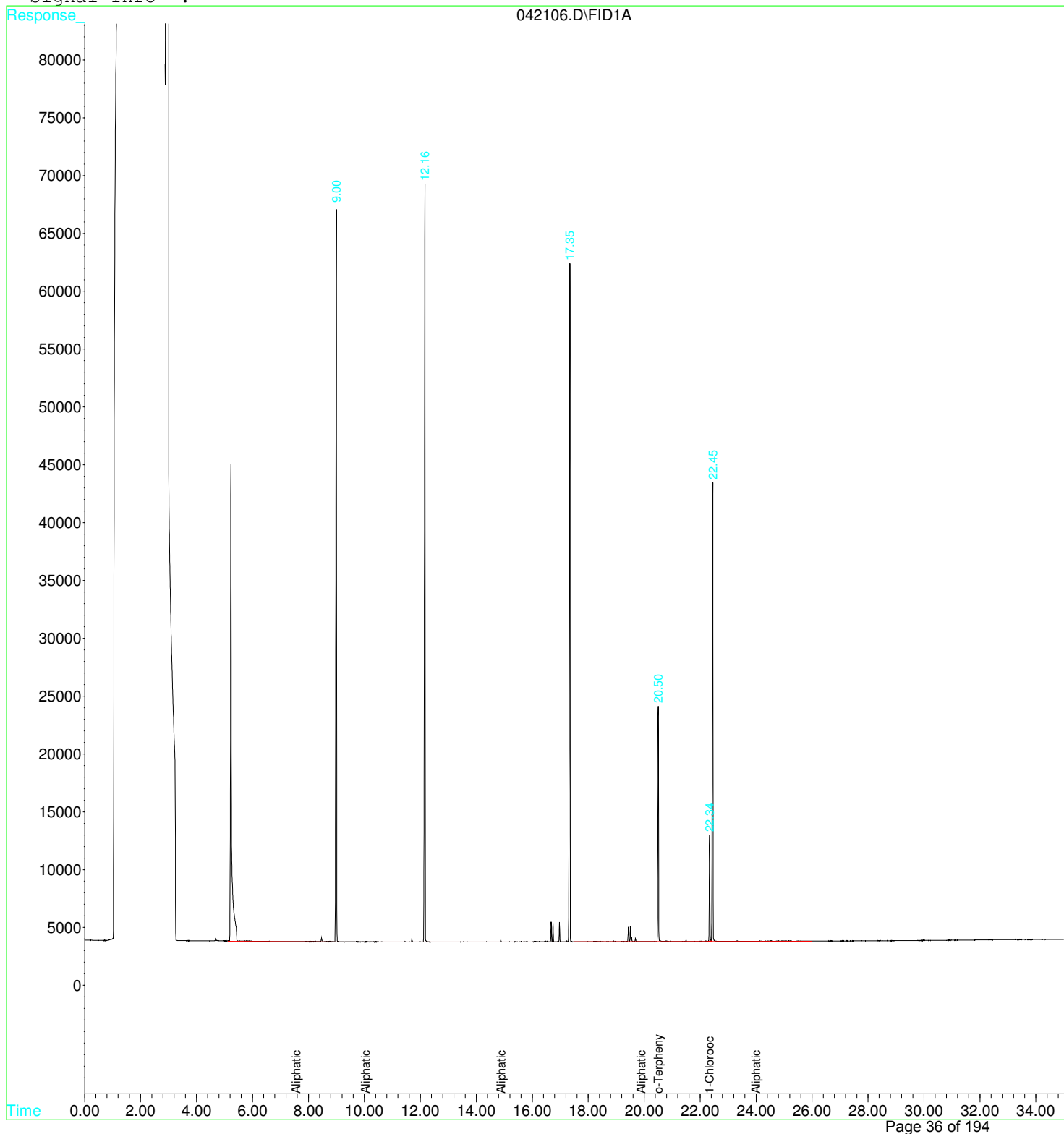
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

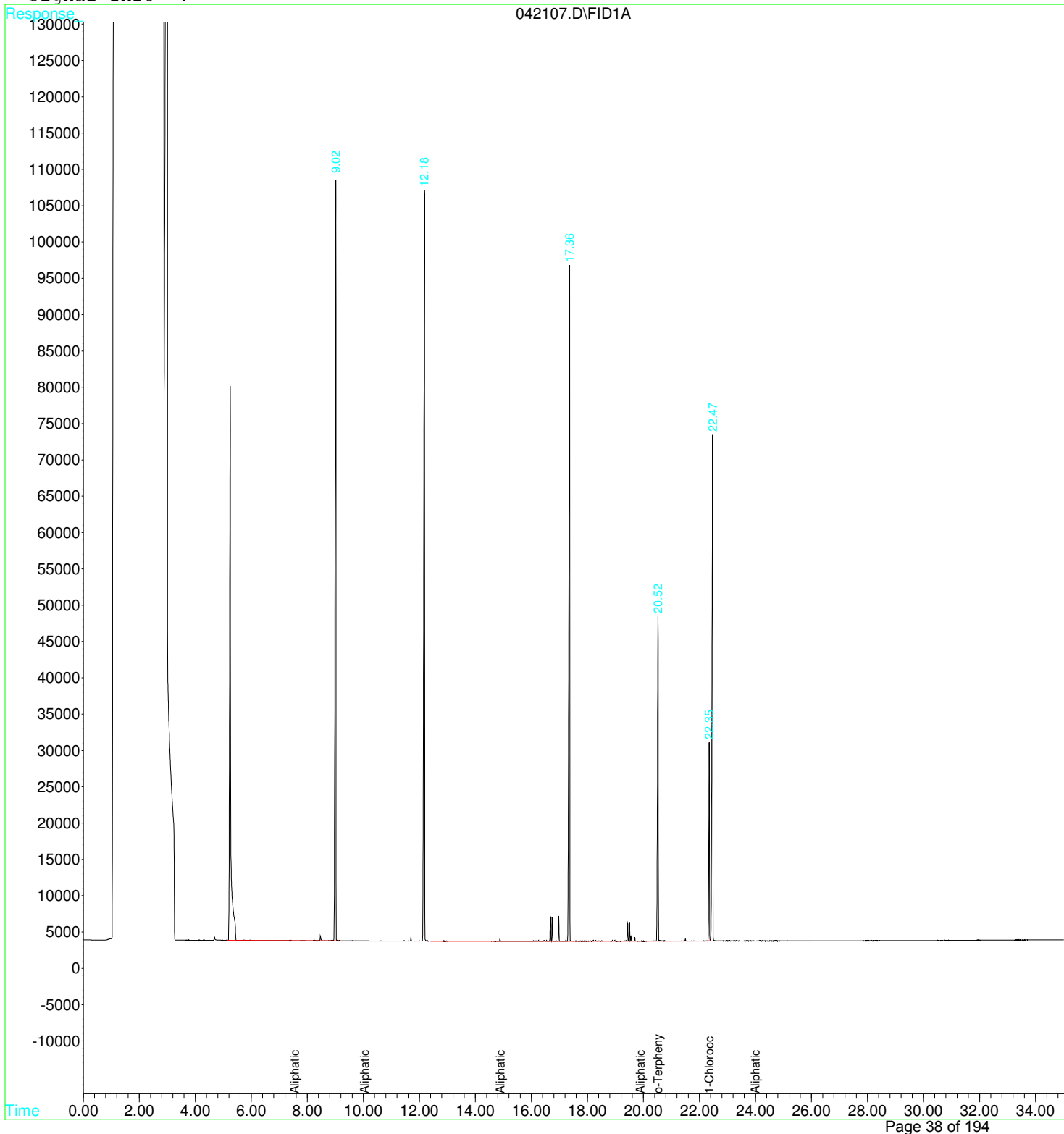
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

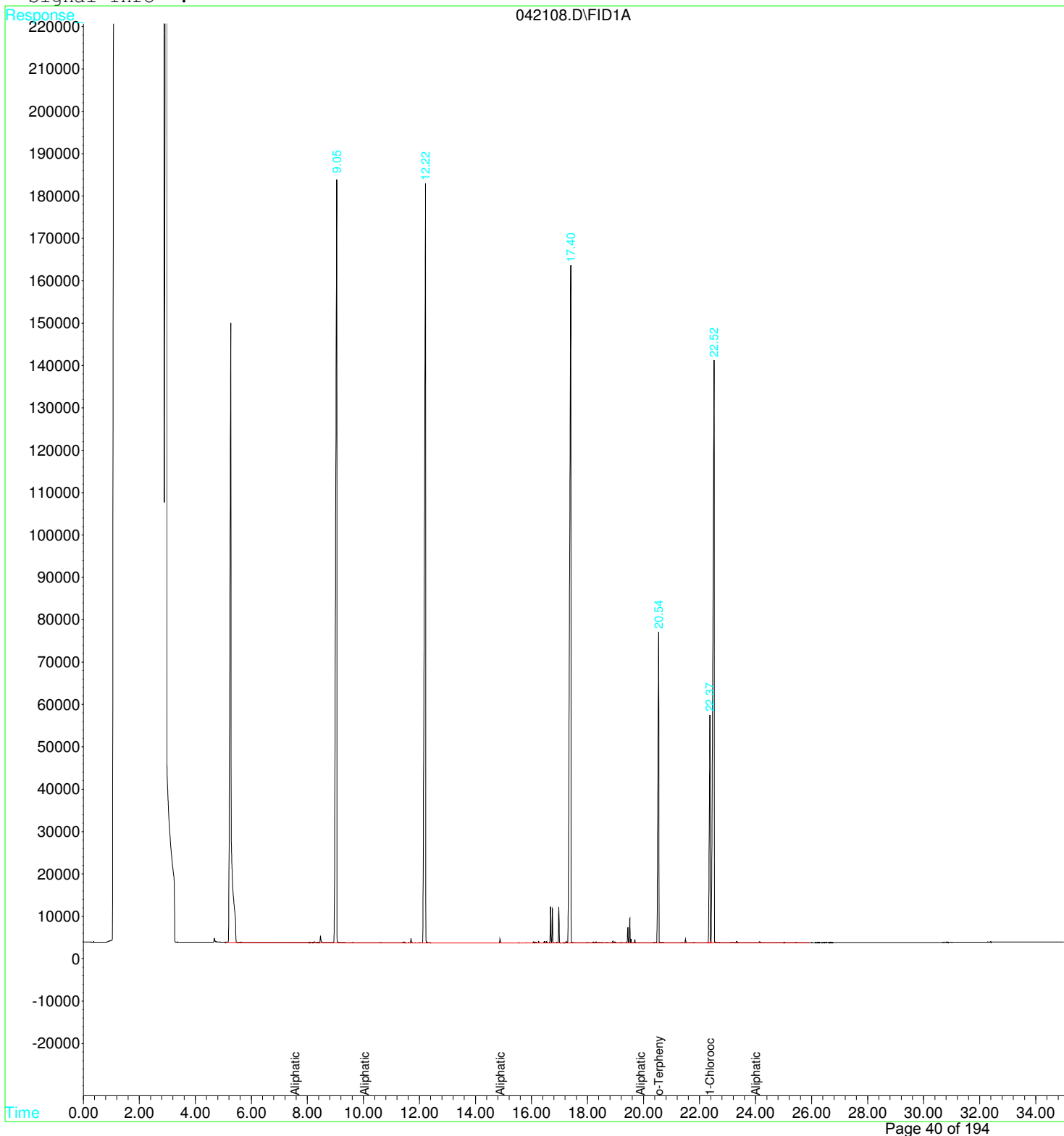
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

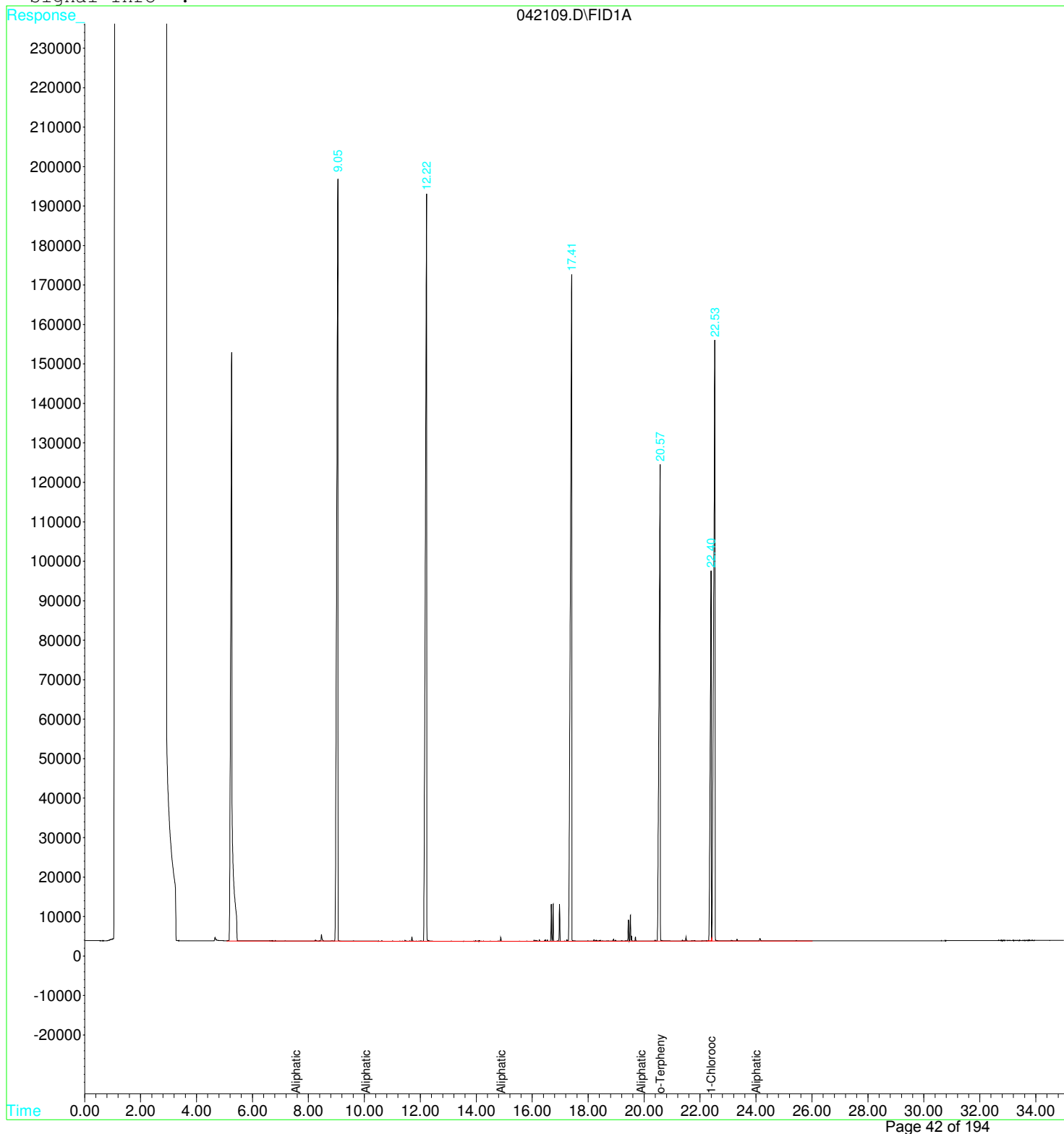
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

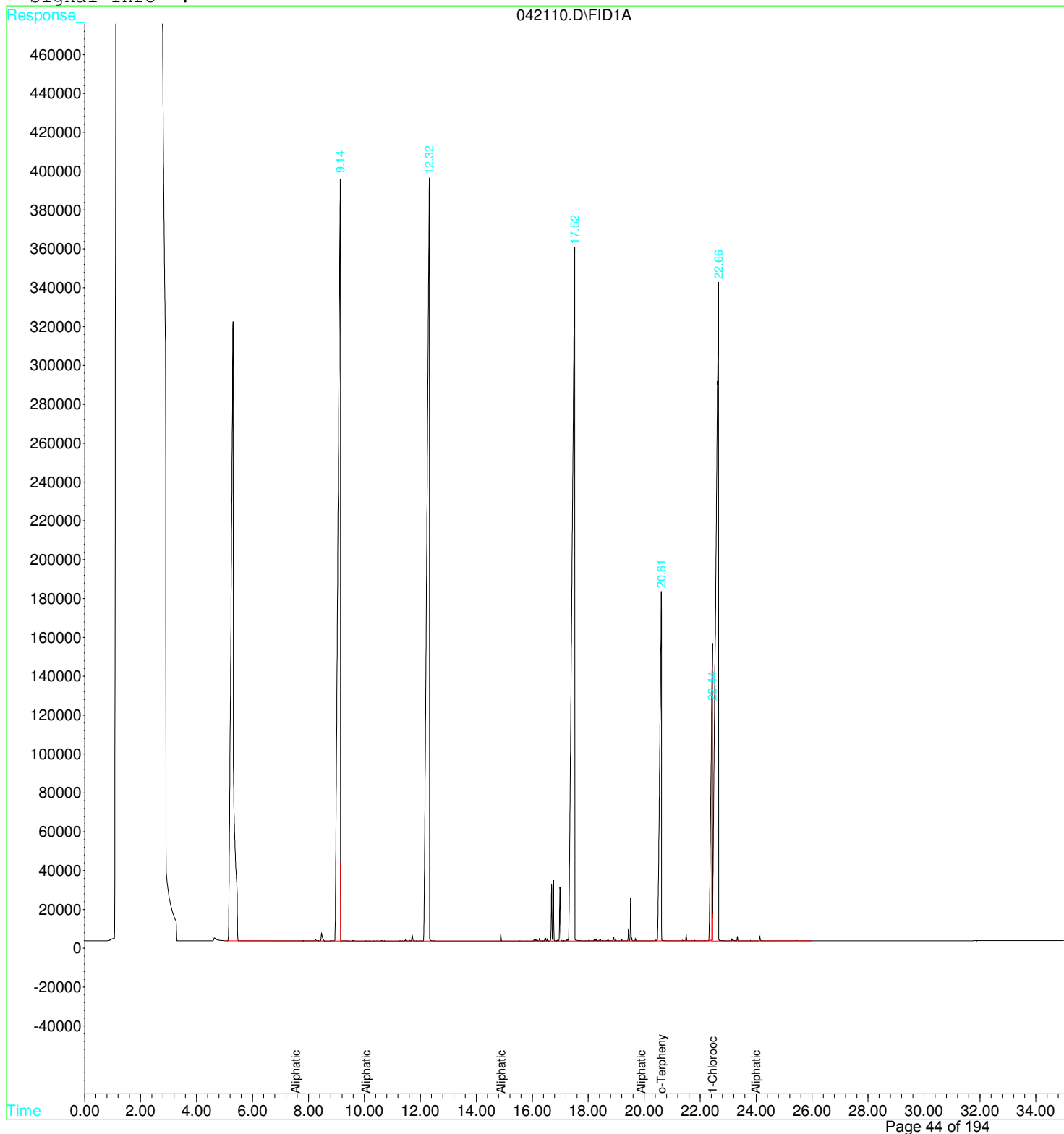
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

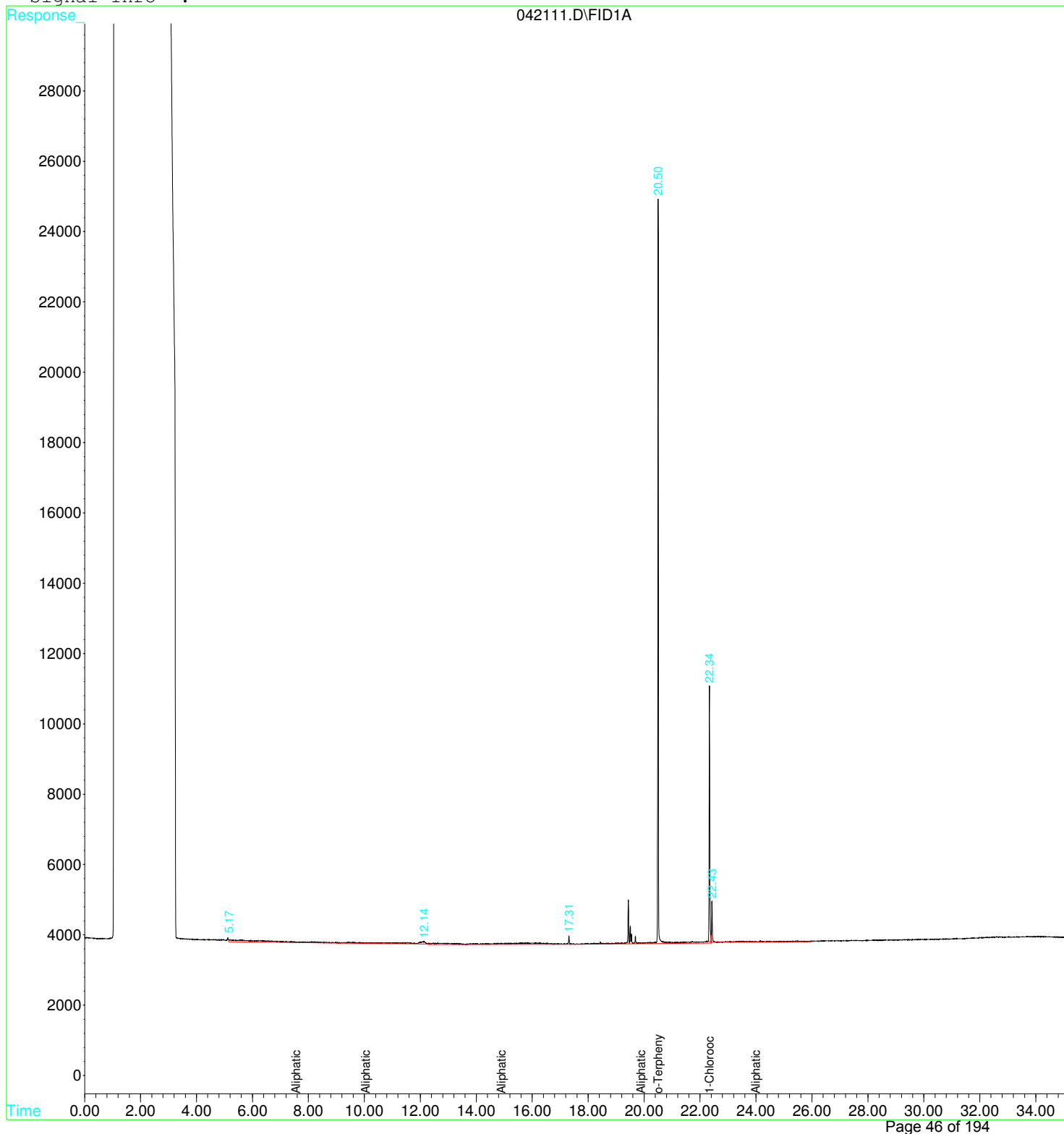
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

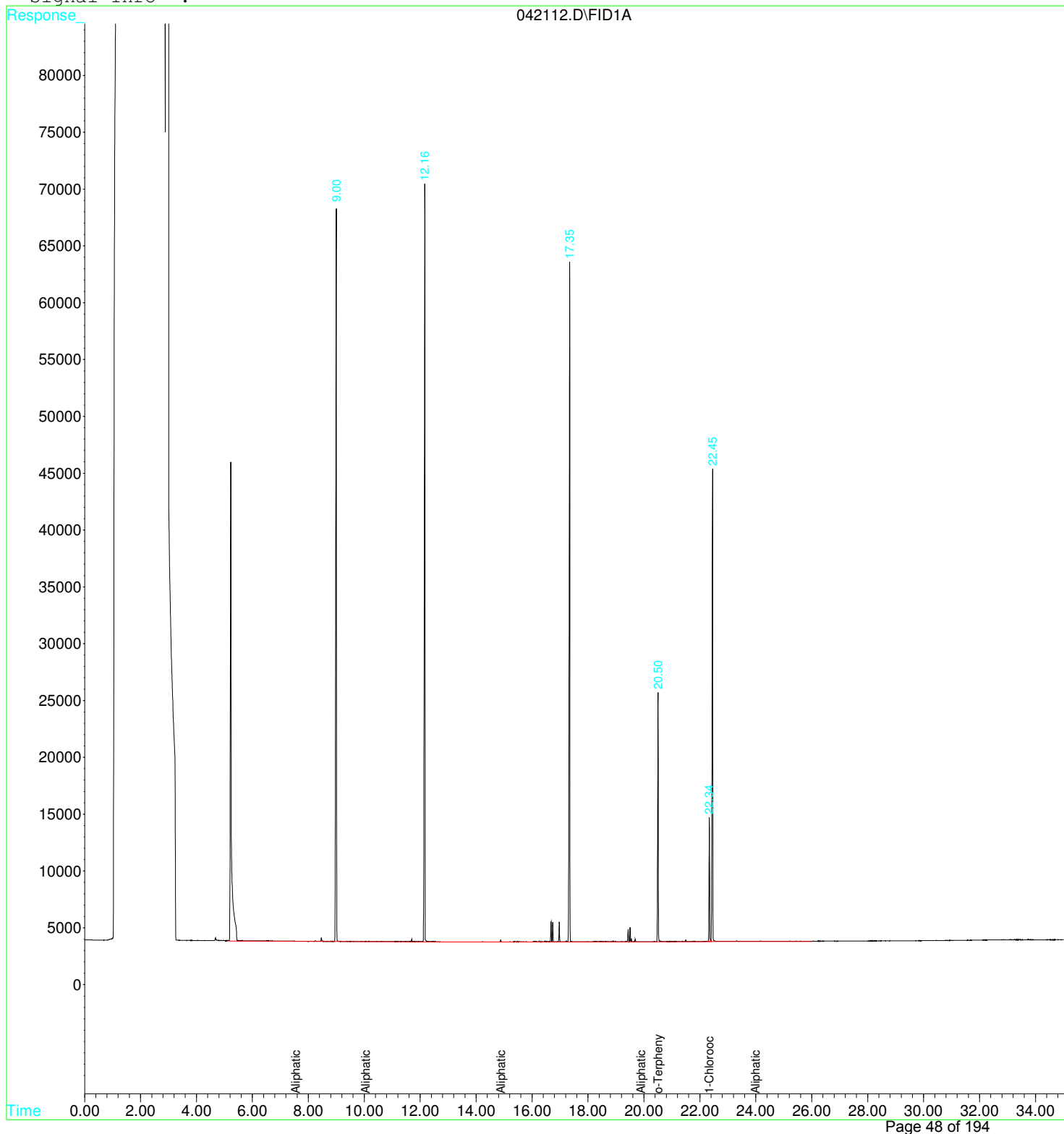
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

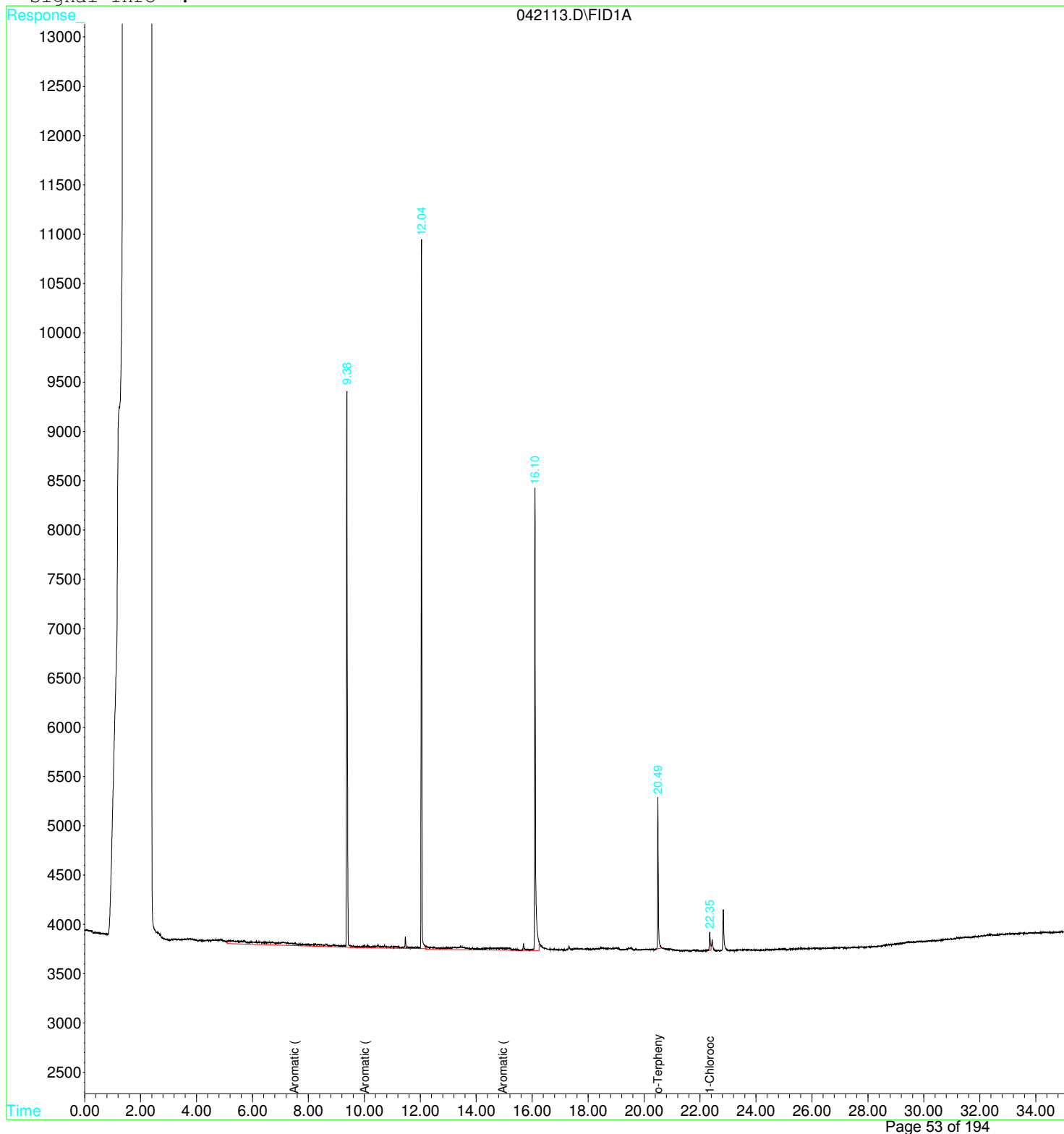
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

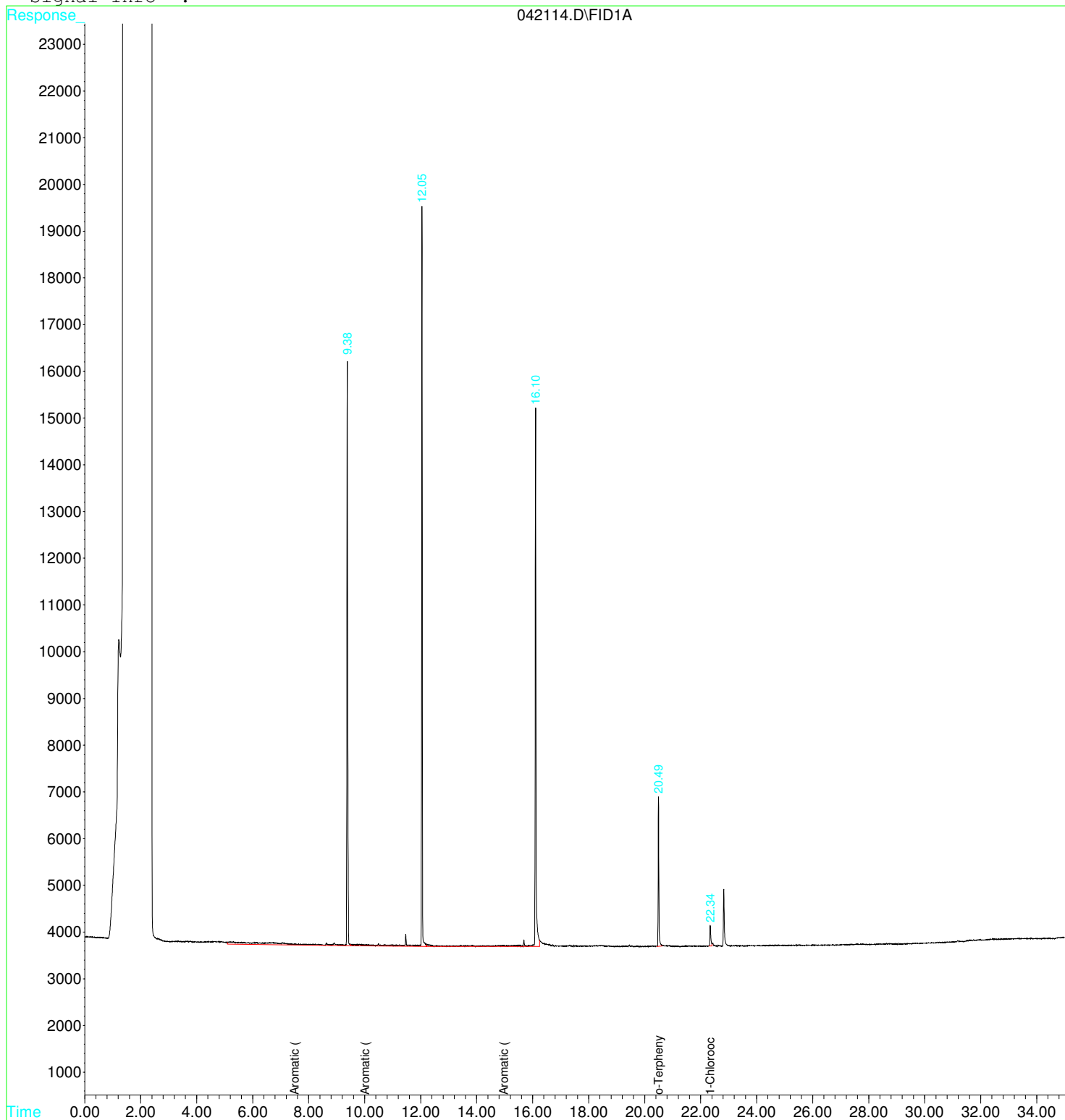
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

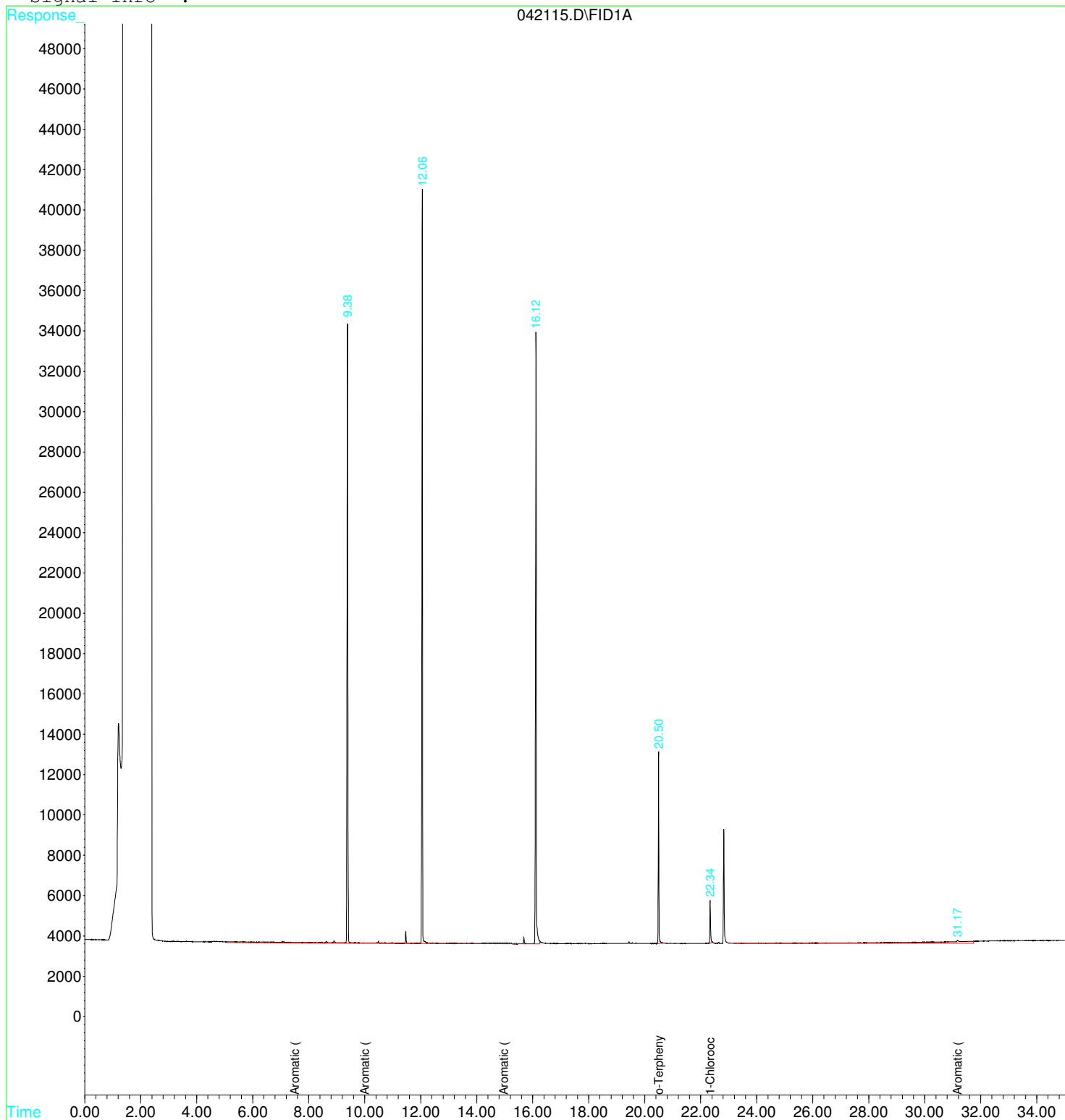
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

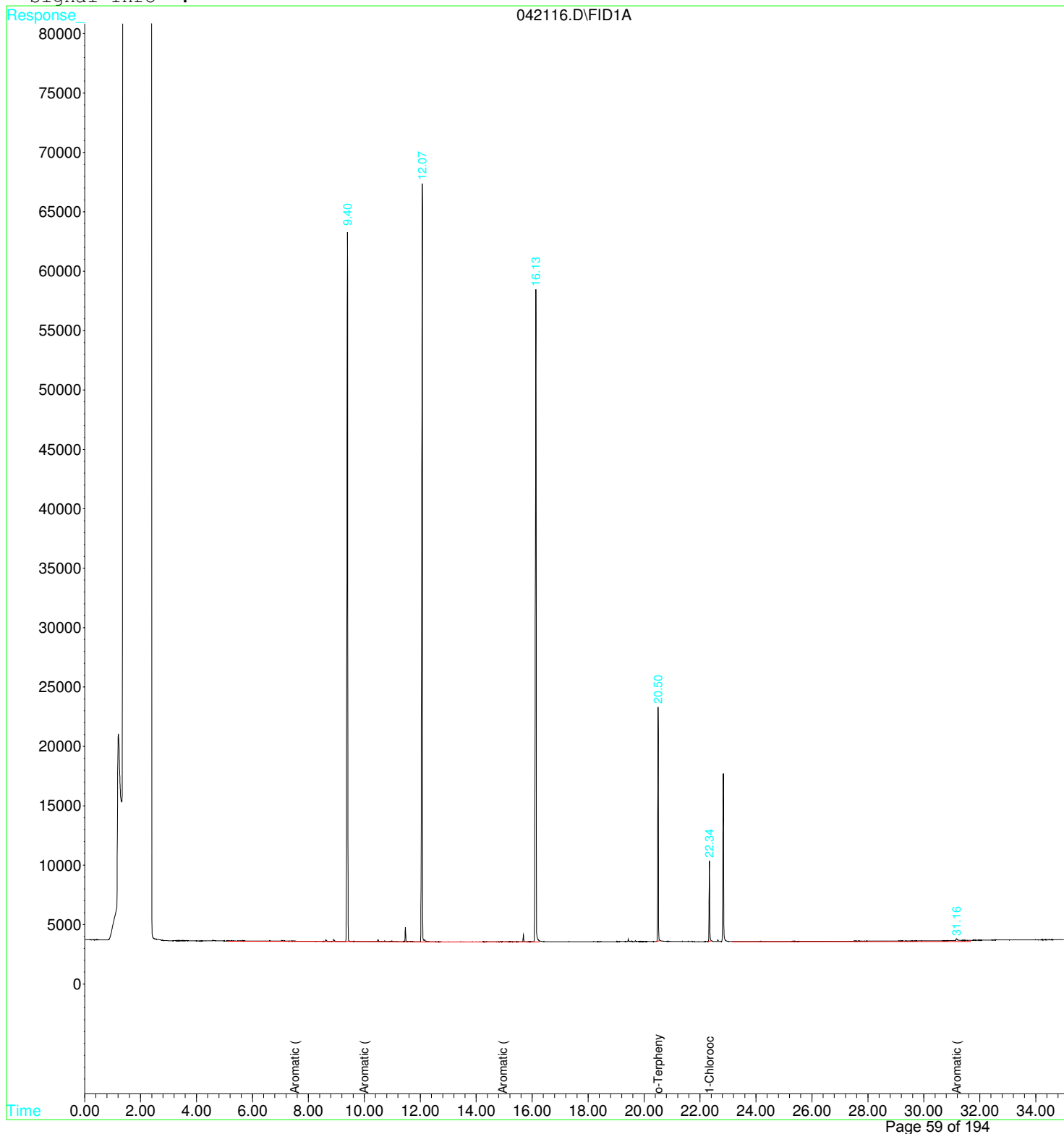
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

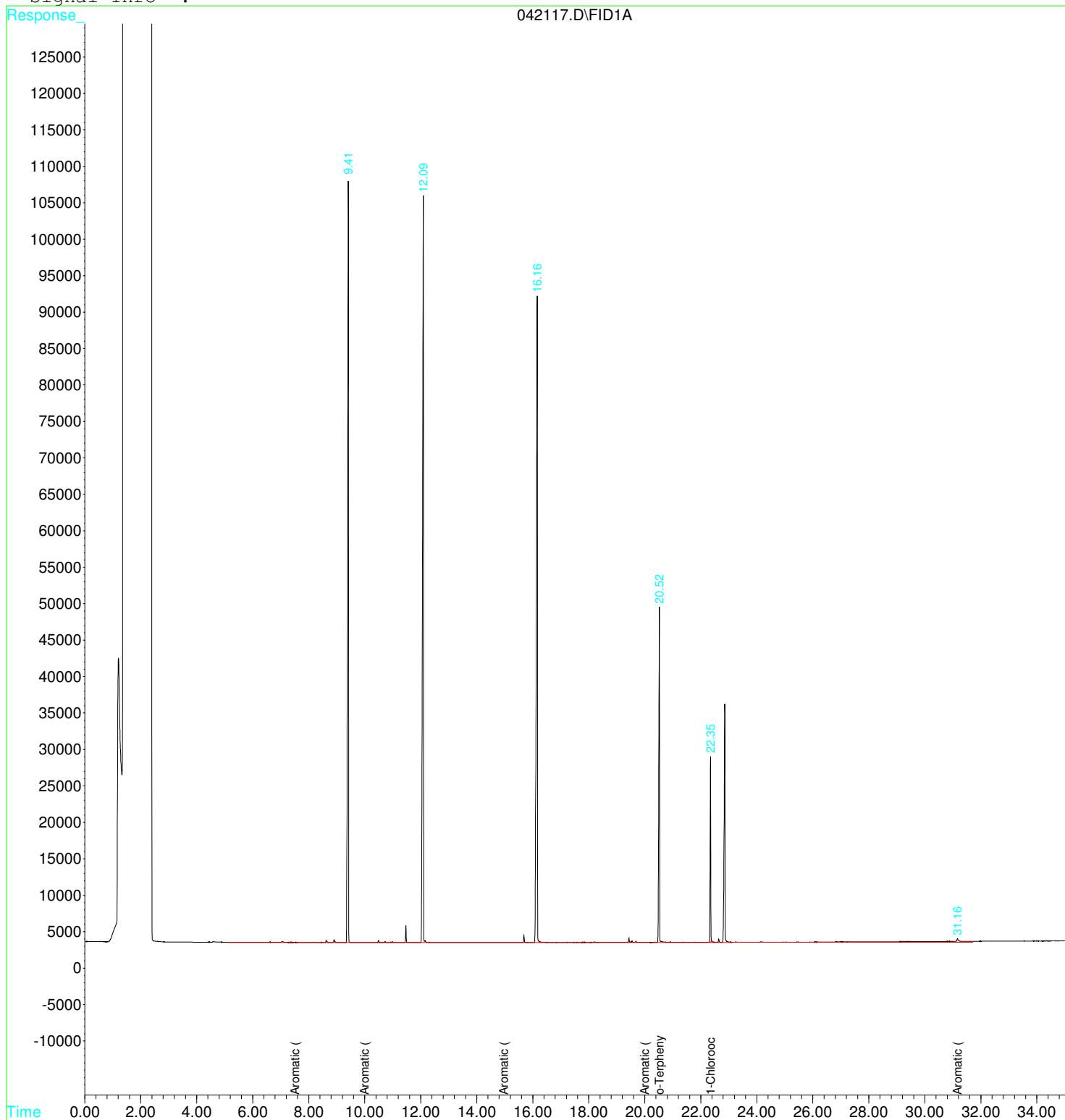
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

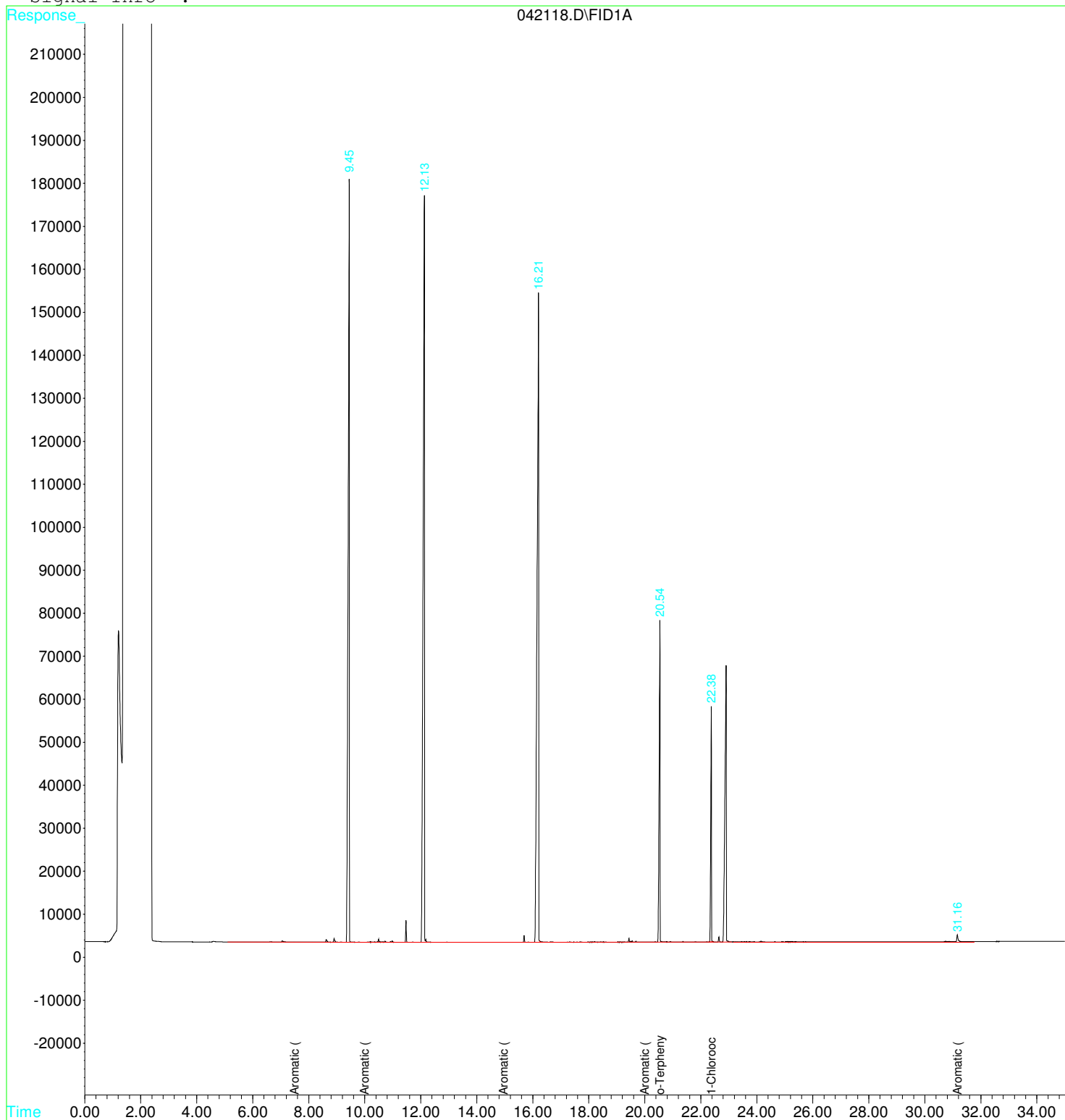
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

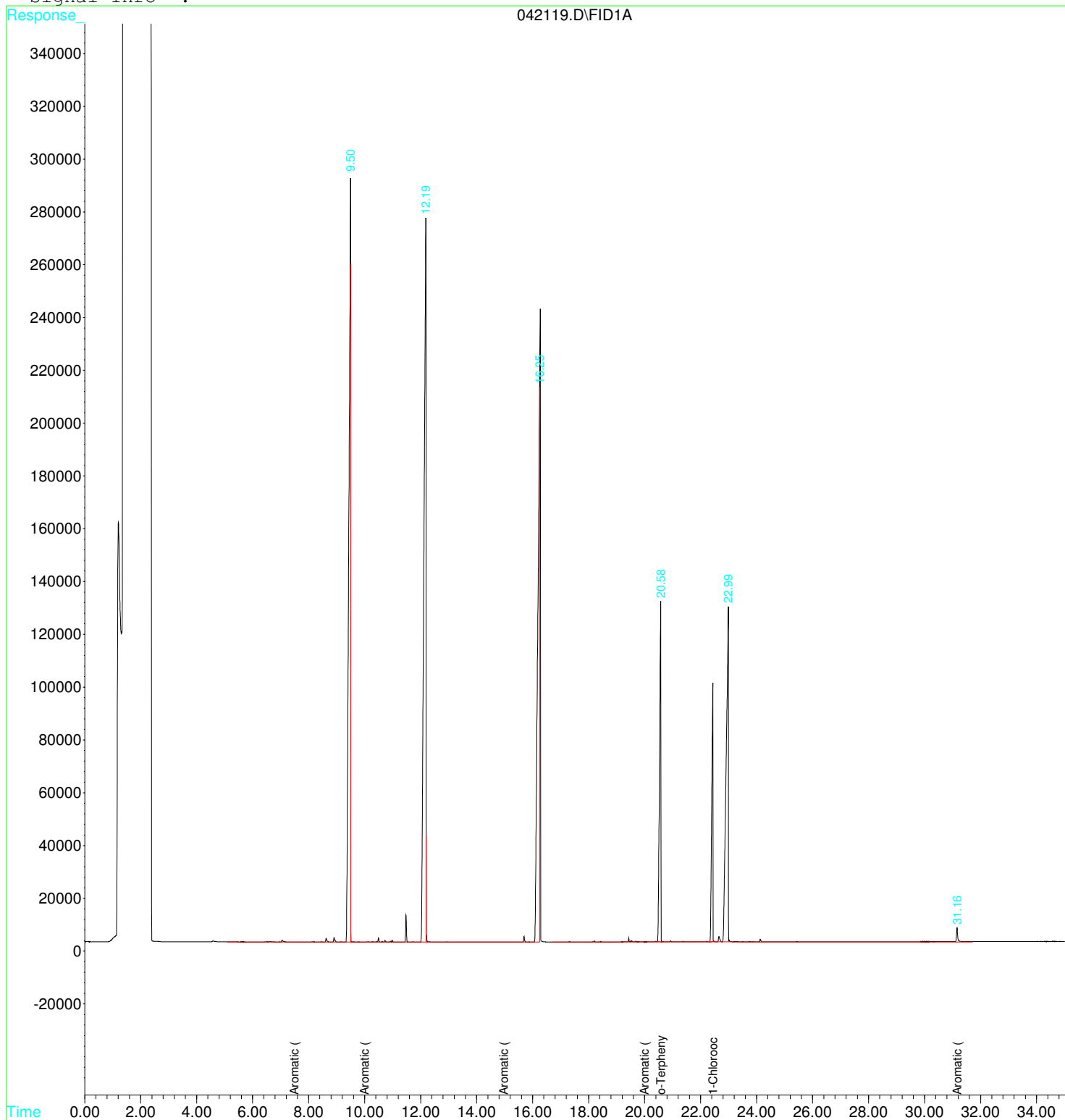
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

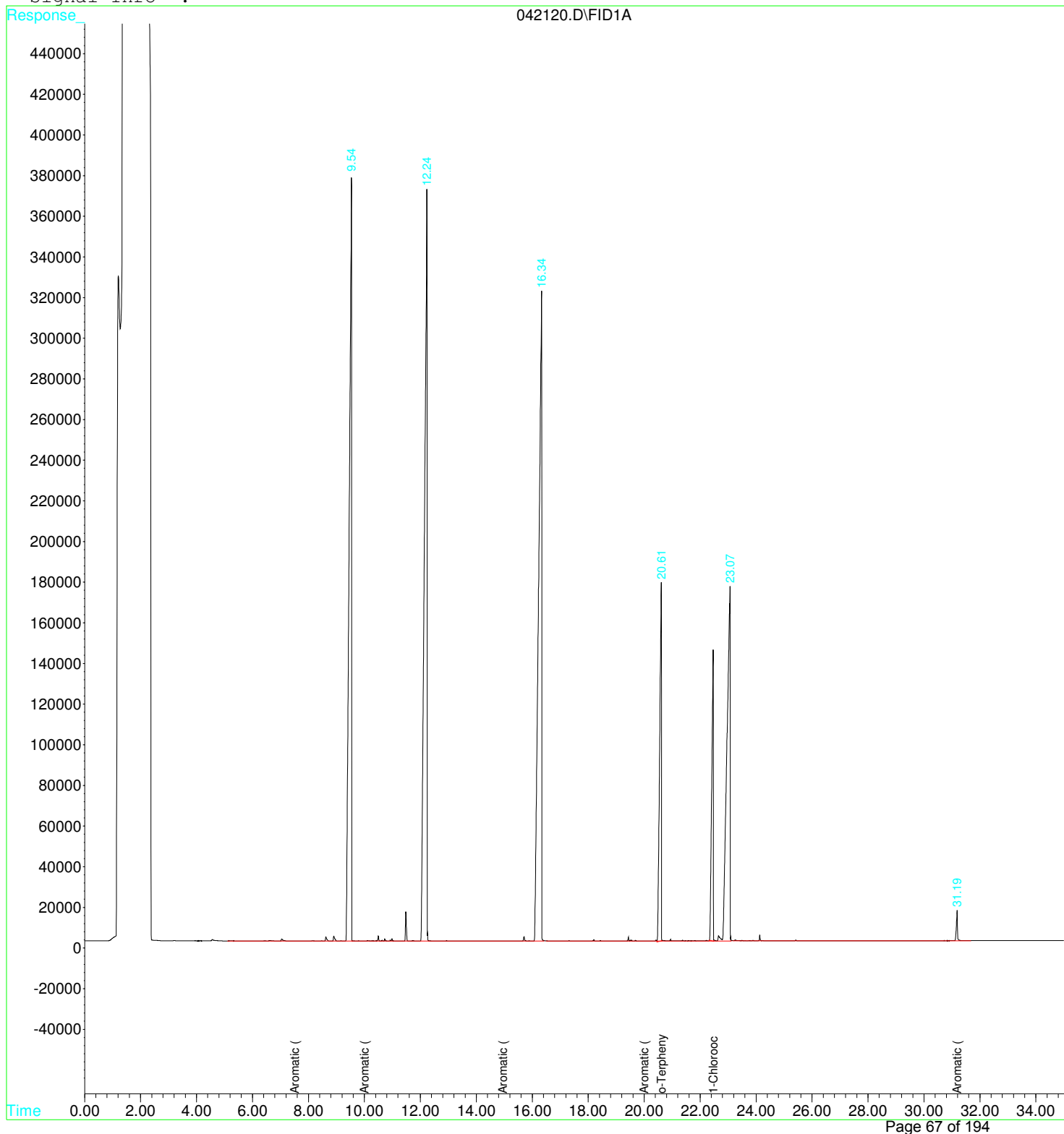
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

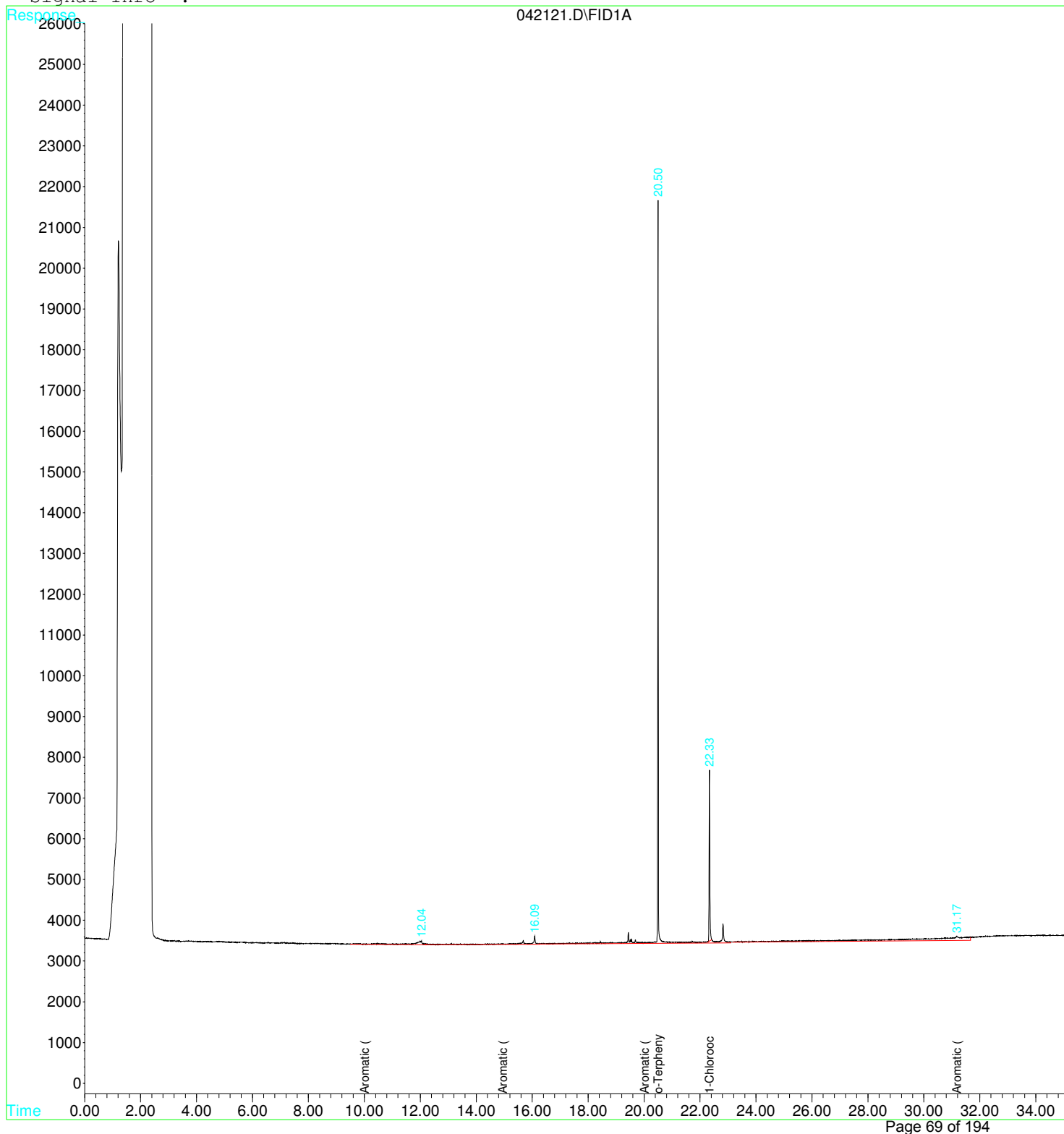
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

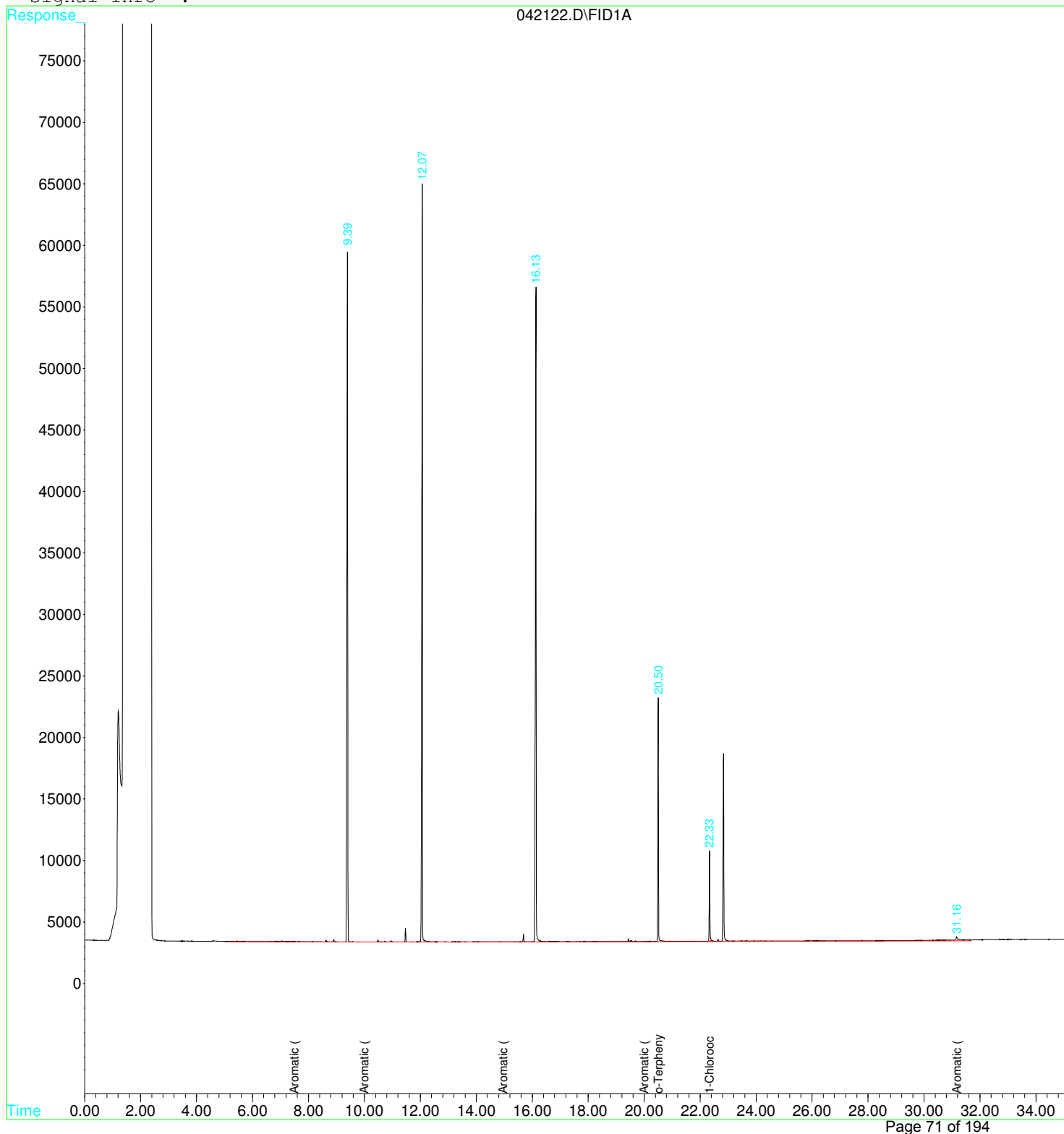
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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 :





Raw Data

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 |

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

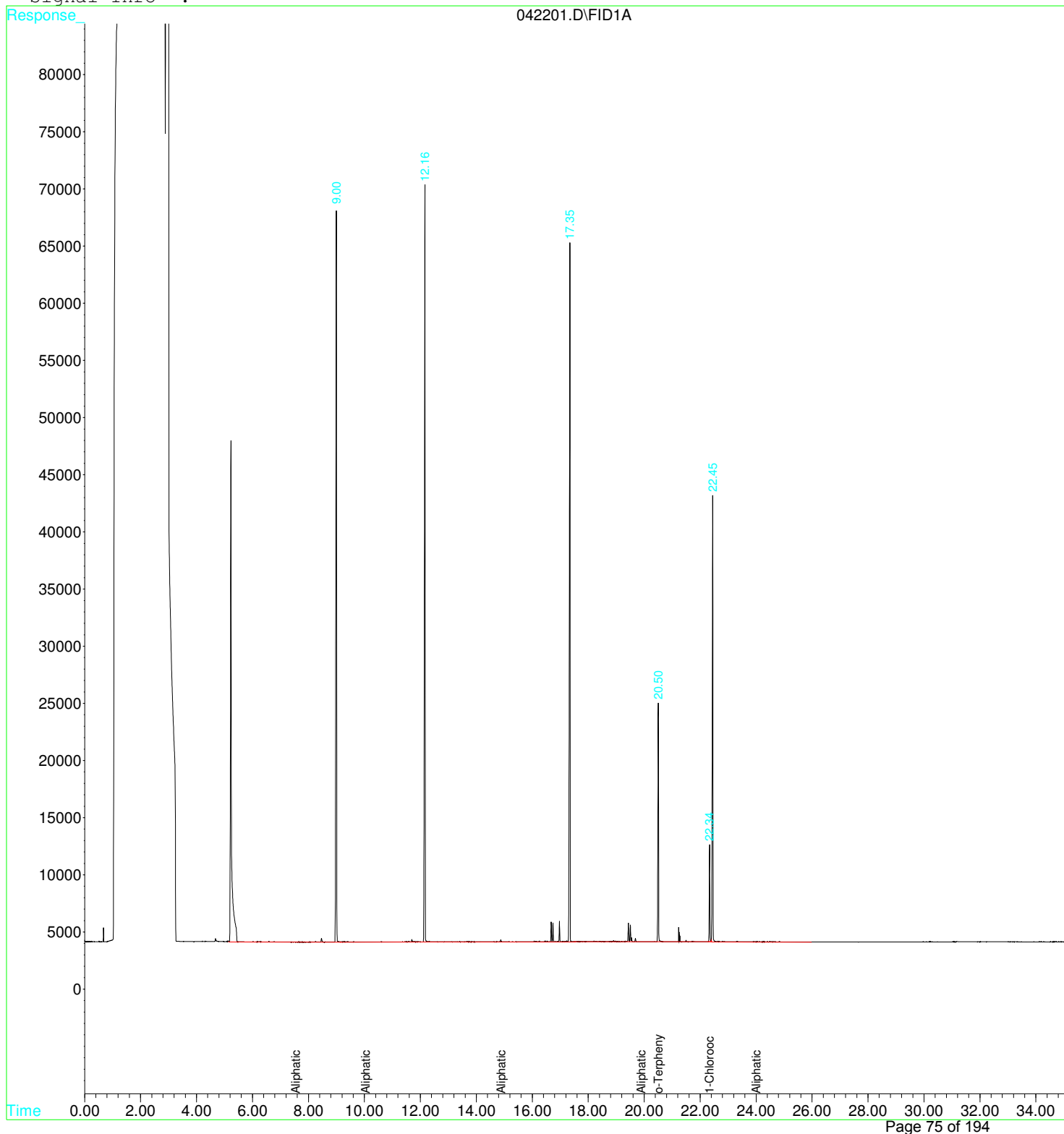
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

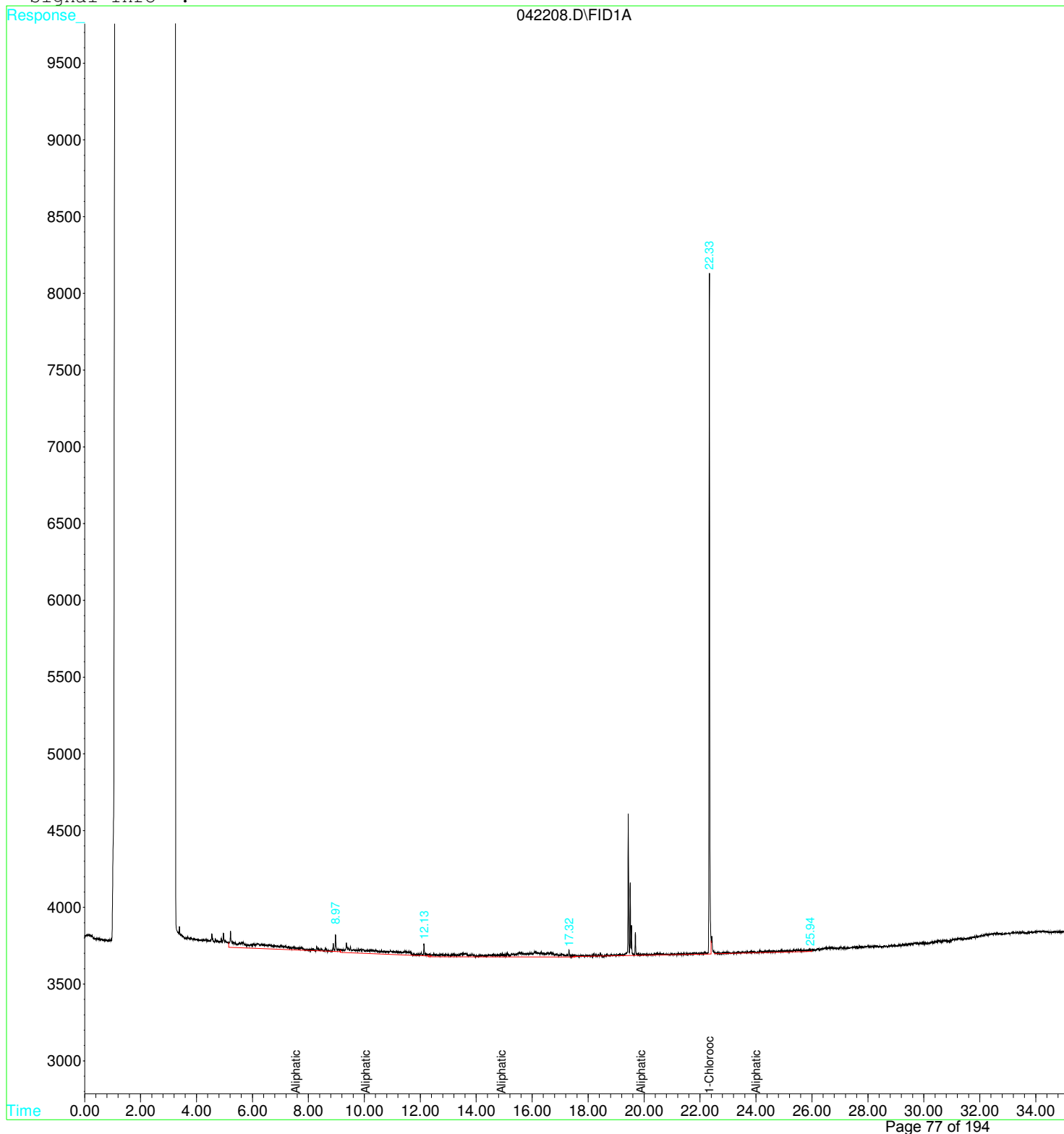
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

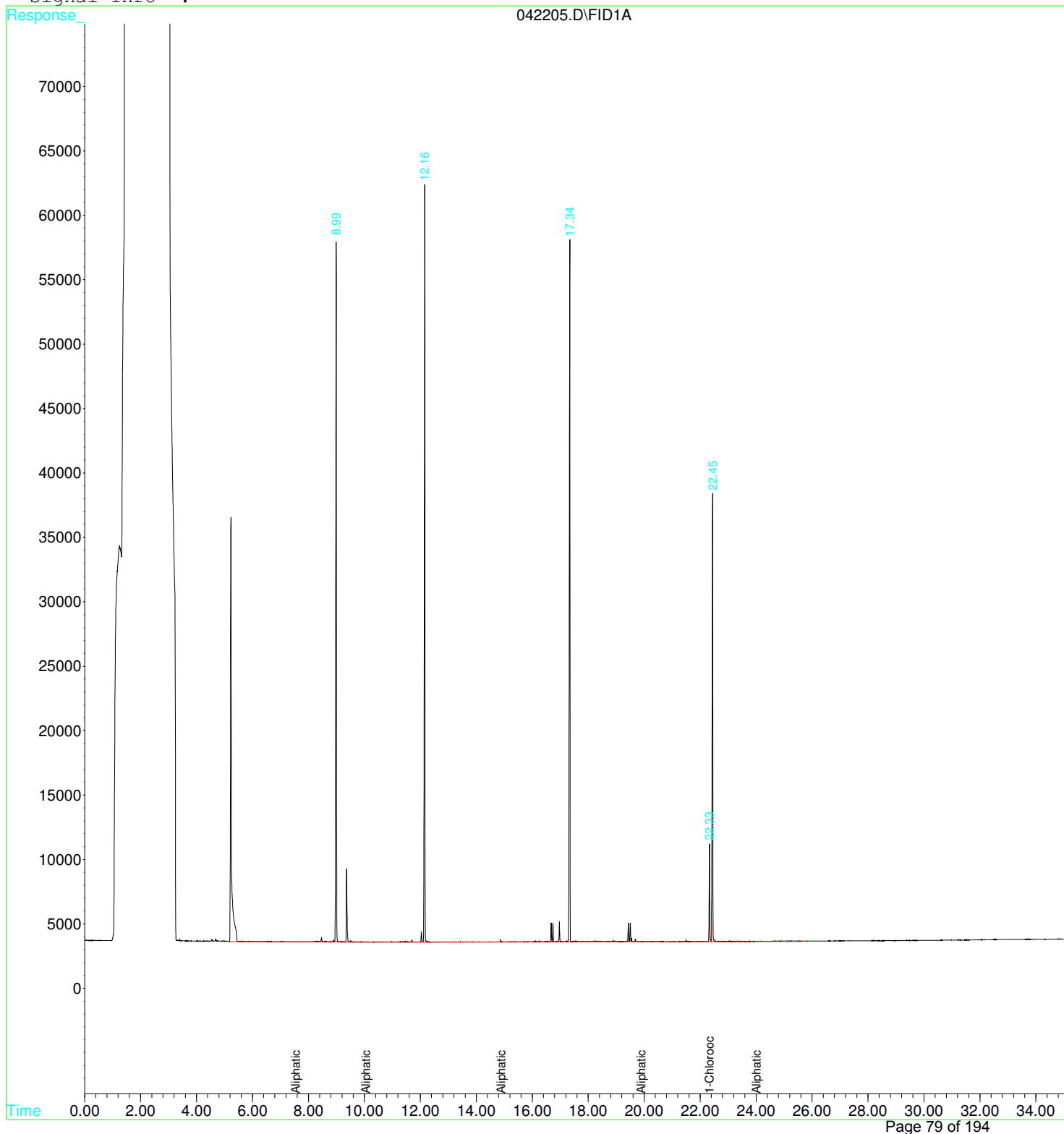
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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\042210.D Vial: 28
 Acq On : 22 Apr 2016 9:51 pm Operator: CM
 Sample : 1604078-002A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:39 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

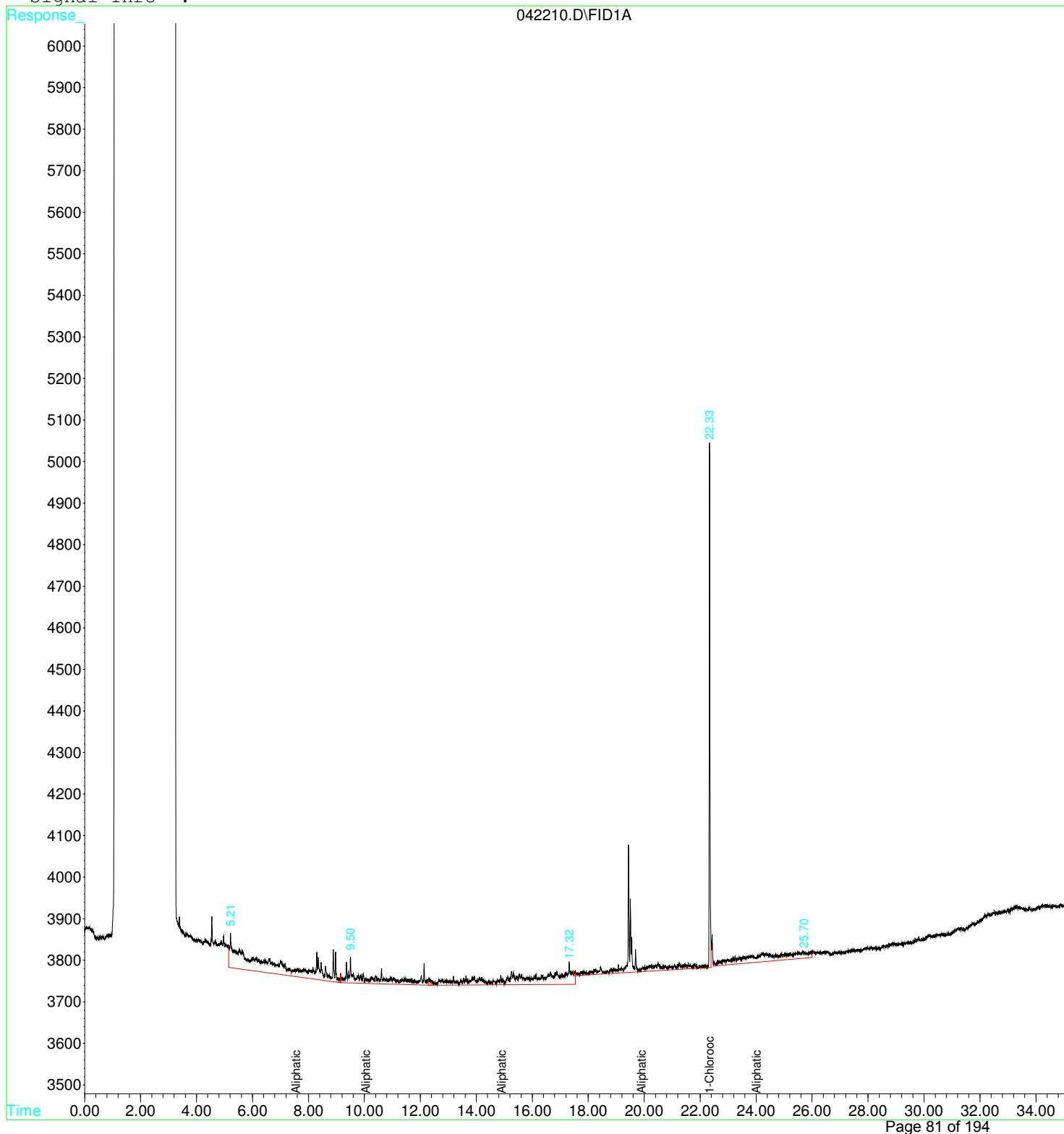
Volume Inj. :
 Signal Phase :
 Signal Info :

| Compound | R.T. | Response | Conc Units |
|-----------------------------|-------|----------|--------------|
| ----- | | | |
| System Monitoring Compounds | | | |
| 1) S 1-Chlorooctadecane | 22.33 | 25114 | 9.810 mg/L m |
| 2) S o-Terphenyl | 0.00 | 0 | N.D. mg/L |
| Target Compounds | | | |
| 3) H Aliphatic (C8-C10) | 7.55 | 57229 | 5.245 mg/L |
| 4) H Aliphatic (C10-C12) | 10.05 | 22988 | 1.978 mg/L |
| 5) H Aliphatic (C12-C16) | 14.90 | 43208 | 3.620 mg/L |
| 6) H Aliphatic (C16-C21) | 19.90 | 53090 | 24.624 mg/L |
| 7) H Aliphatic (C21-C34) | 24.00 | 25042 | 3.502 mg/L |

Data File : C:\GC20\DATA\04221620\042210.D Vial: 28
Acq On : 22 Apr 2016 9:51 pm Operator: CM
Sample : 1604078-002A Inst : GC #20
Misc : SAMP O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 26 16:39 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\042211.D Vial: 29
 Acq On : 22 Apr 2016 10:37 pm Operator: CM
 Sample : 1604078-004A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:40 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

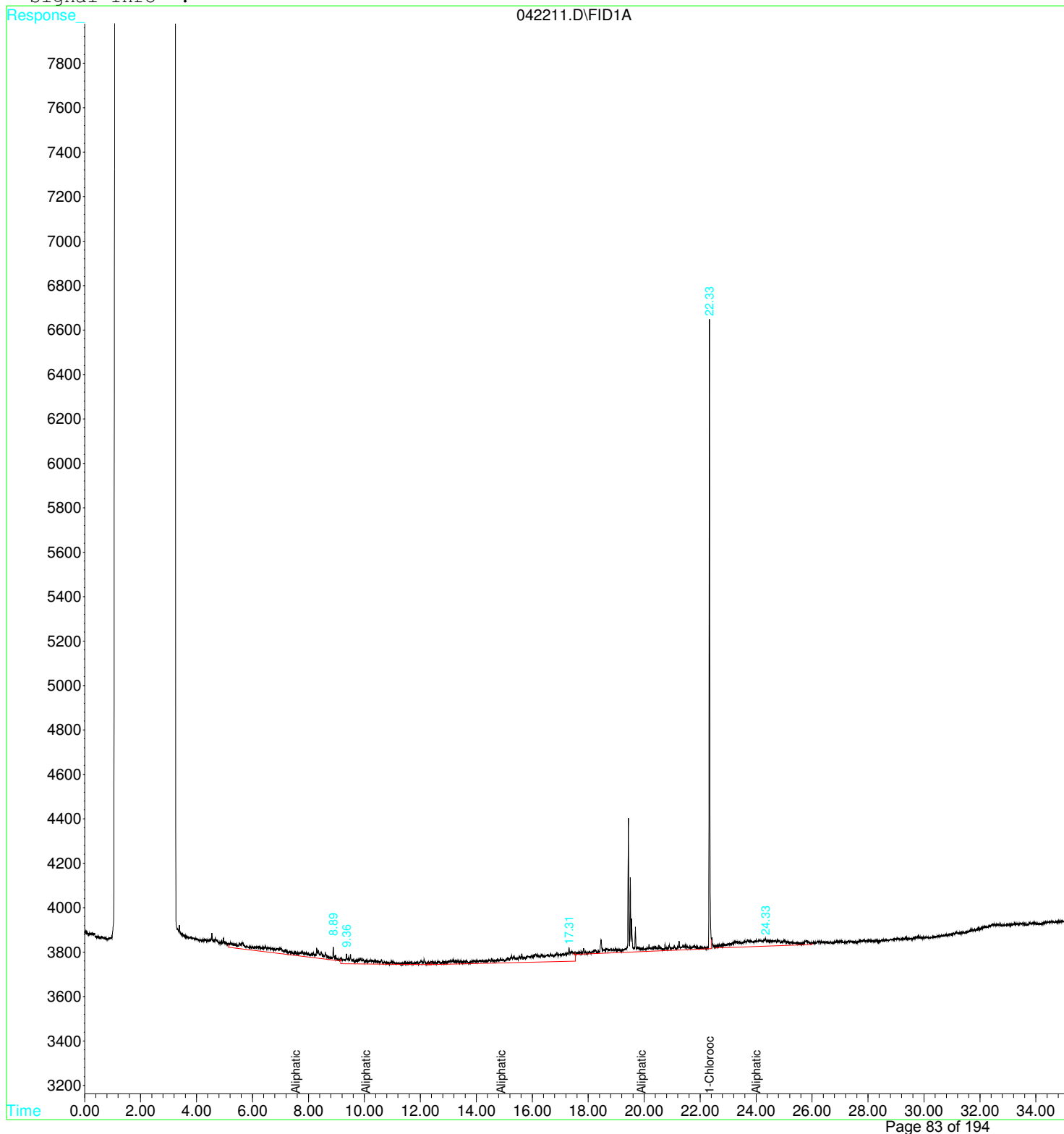
Volume Inj. :
 Signal Phase :
 Signal Info :

| Compound | R.T. | Response | Conc Units |
|-----------------------------|-------|----------|---------------|
| System Monitoring Compounds | | | |
| 1) S 1-Chlorooctadecane | 22.33 | 47906 | 16.290 mg/L m |
| 2) S o-Terphenyl | 0.00 | 0 | N.D. mg/L |
| Target Compounds | | | |
| 3) H Aliphatic (C8-C10) | 7.55 | 36606 | 3.355 mg/L |
| 4) H Aliphatic (C10-C12) | 10.05 | 20271 | 1.744 mg/L |
| 5) H Aliphatic (C12-C16) | 14.90 | 56926 | 4.770 mg/L |
| 6) H Aliphatic (C16-C21) | 19.90 | 52689 | 23.986 mg/L |
| 7) H Aliphatic (C21-C34) | 24.00 | 35541 | 4.971 mg/L |

Data File : C:\GC20\DATA\04221620\042211.D Vial: 29
 Acq On : 22 Apr 2016 10:37 pm Operator: CM
 Sample : 1604078-004A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 26 16:40 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

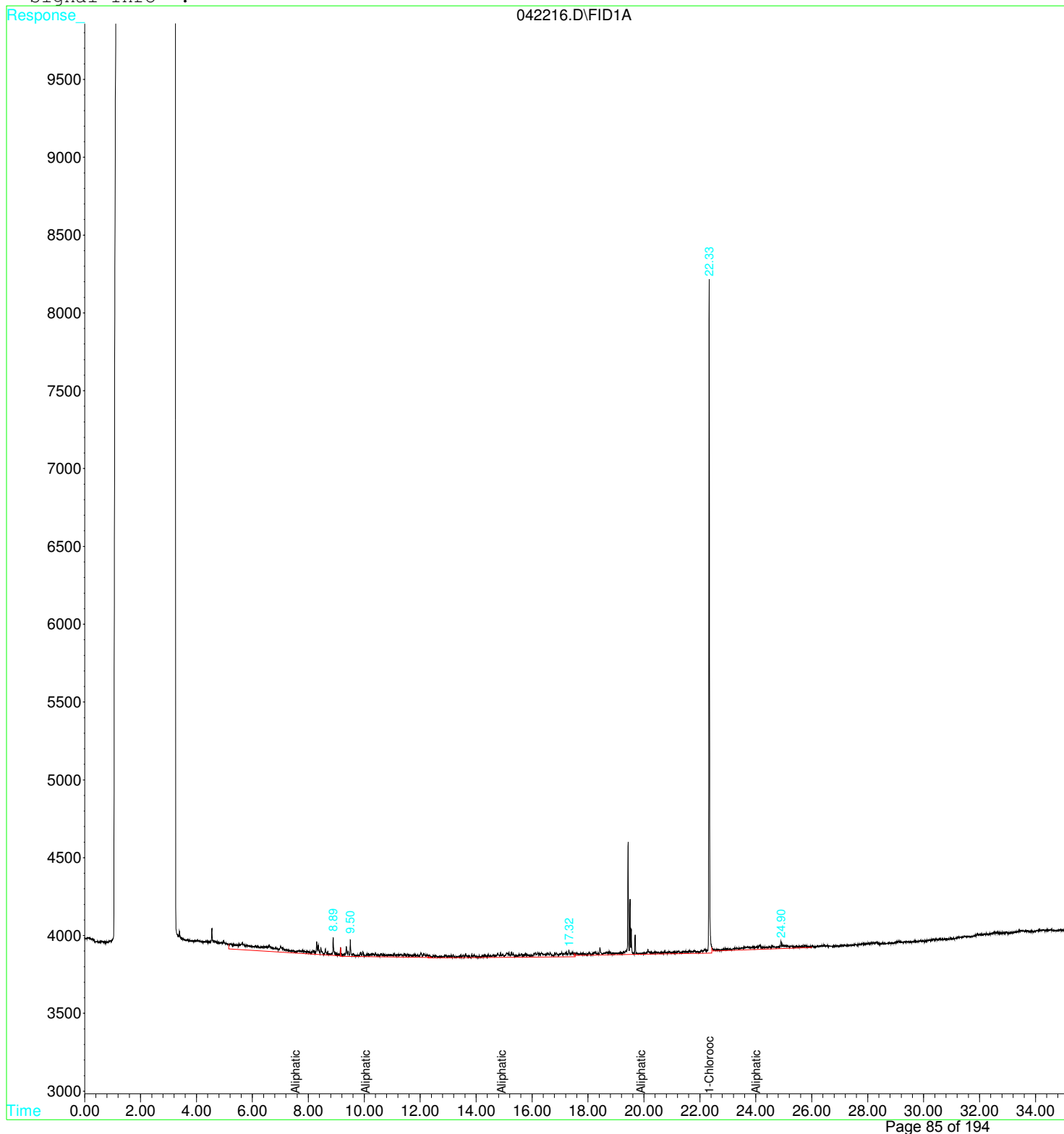
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

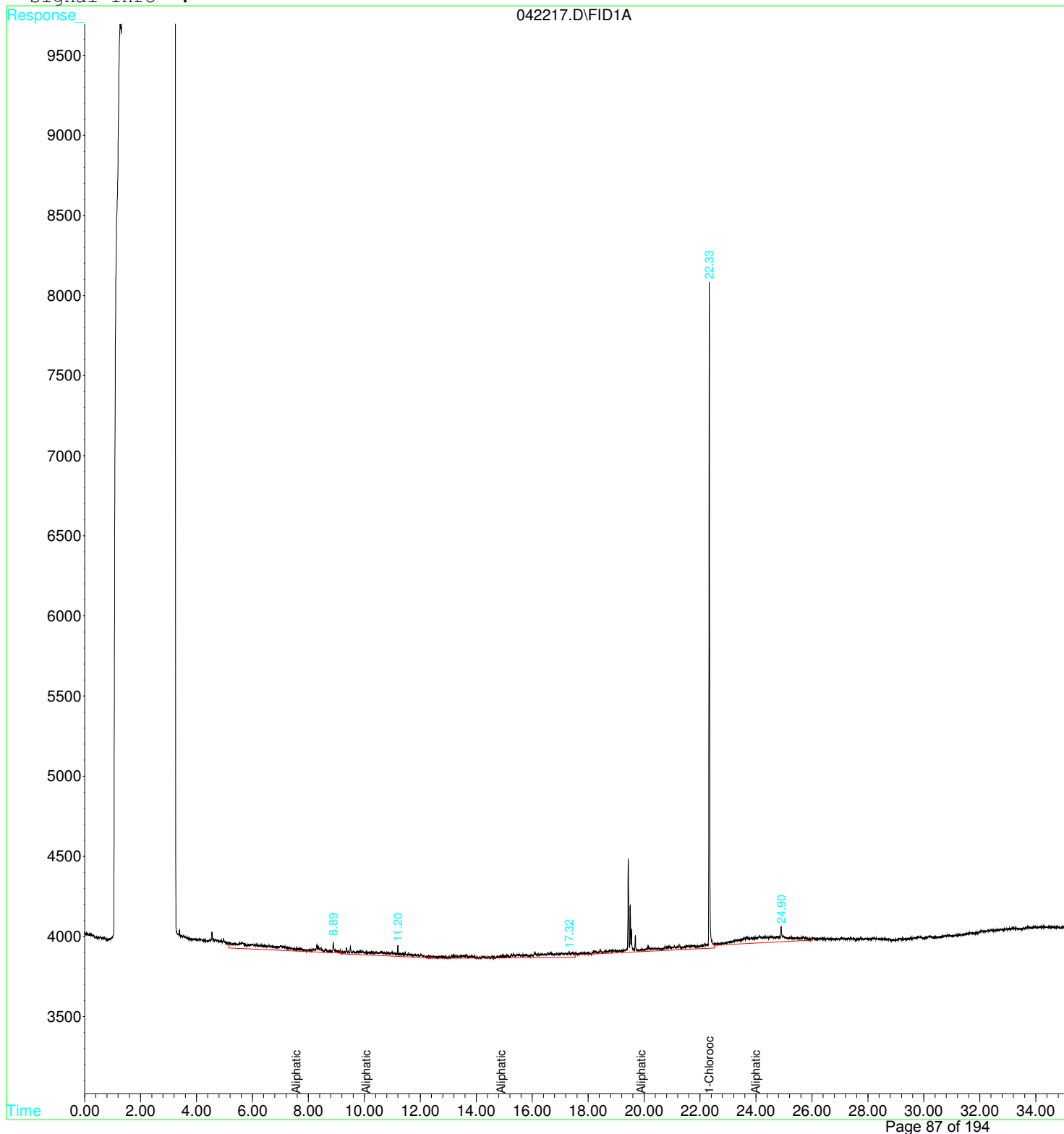
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

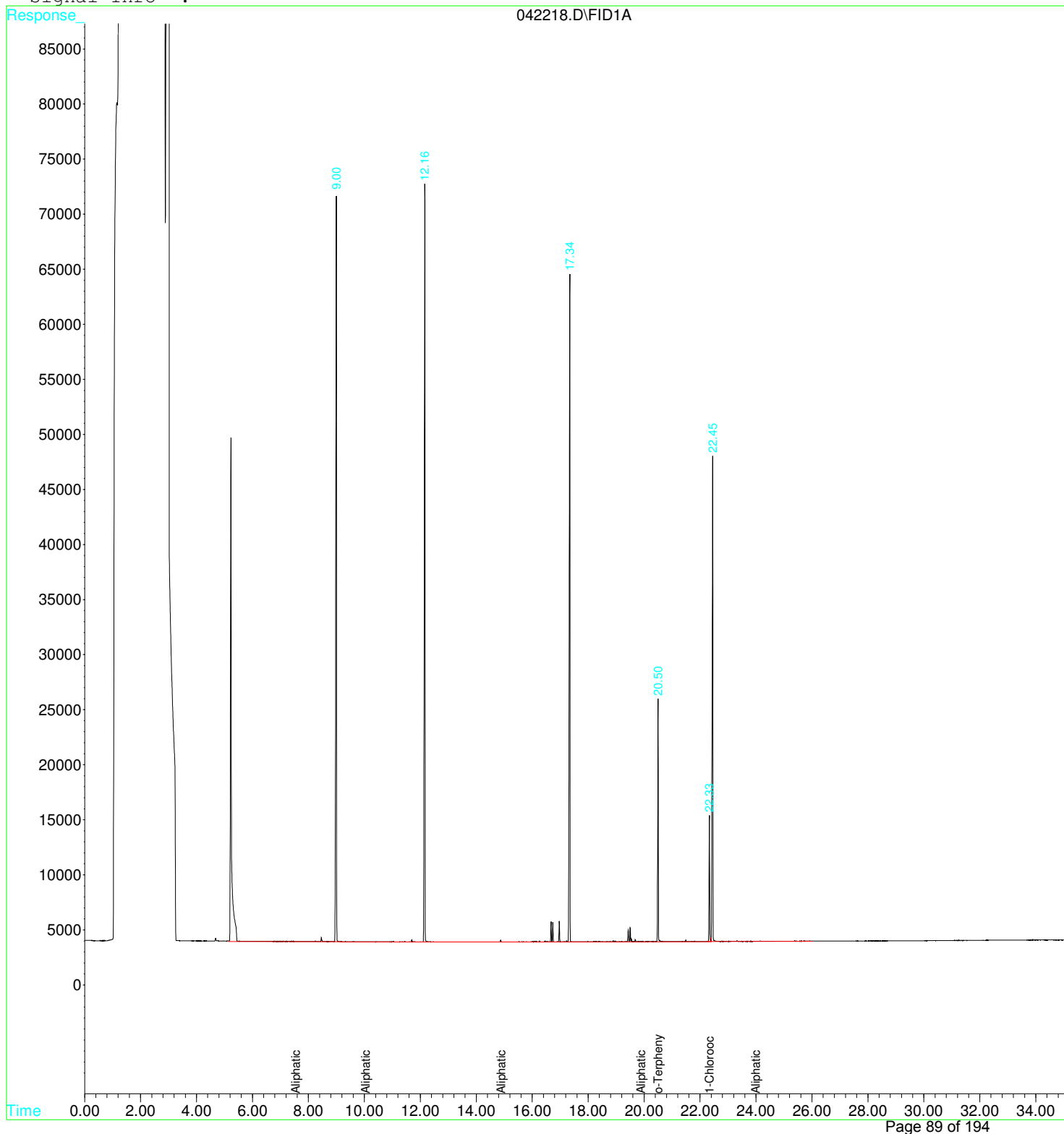
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

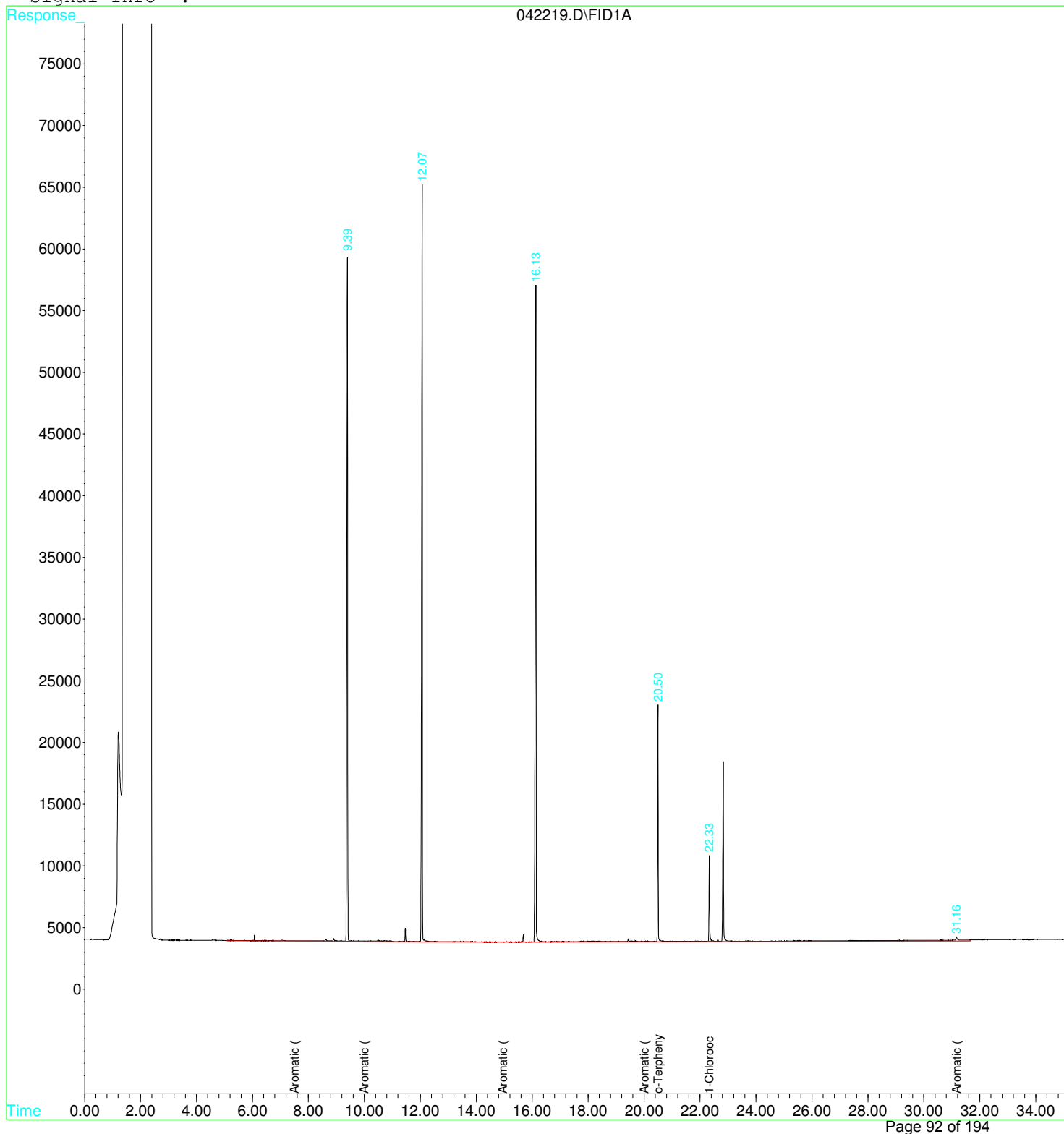
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

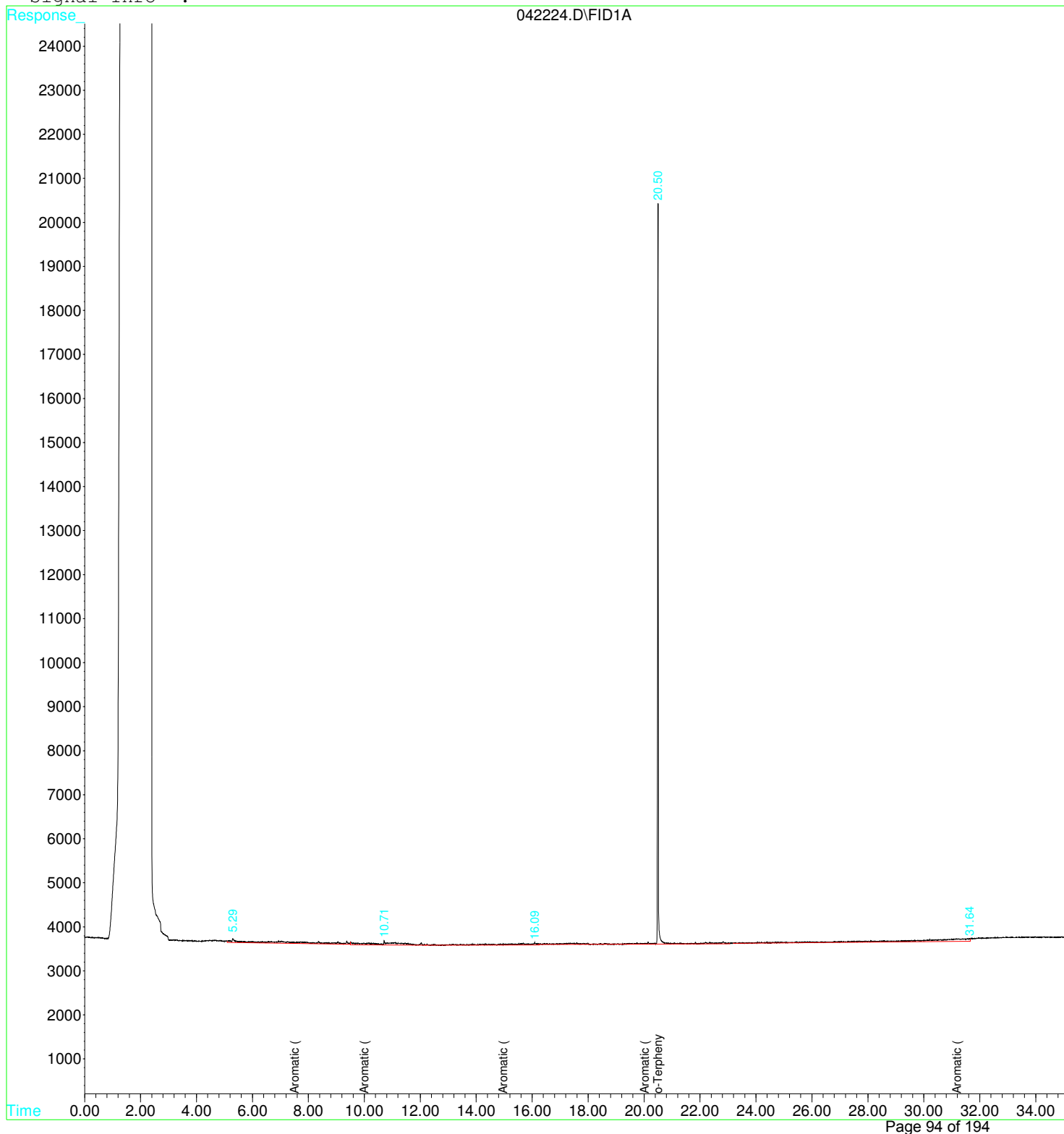
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

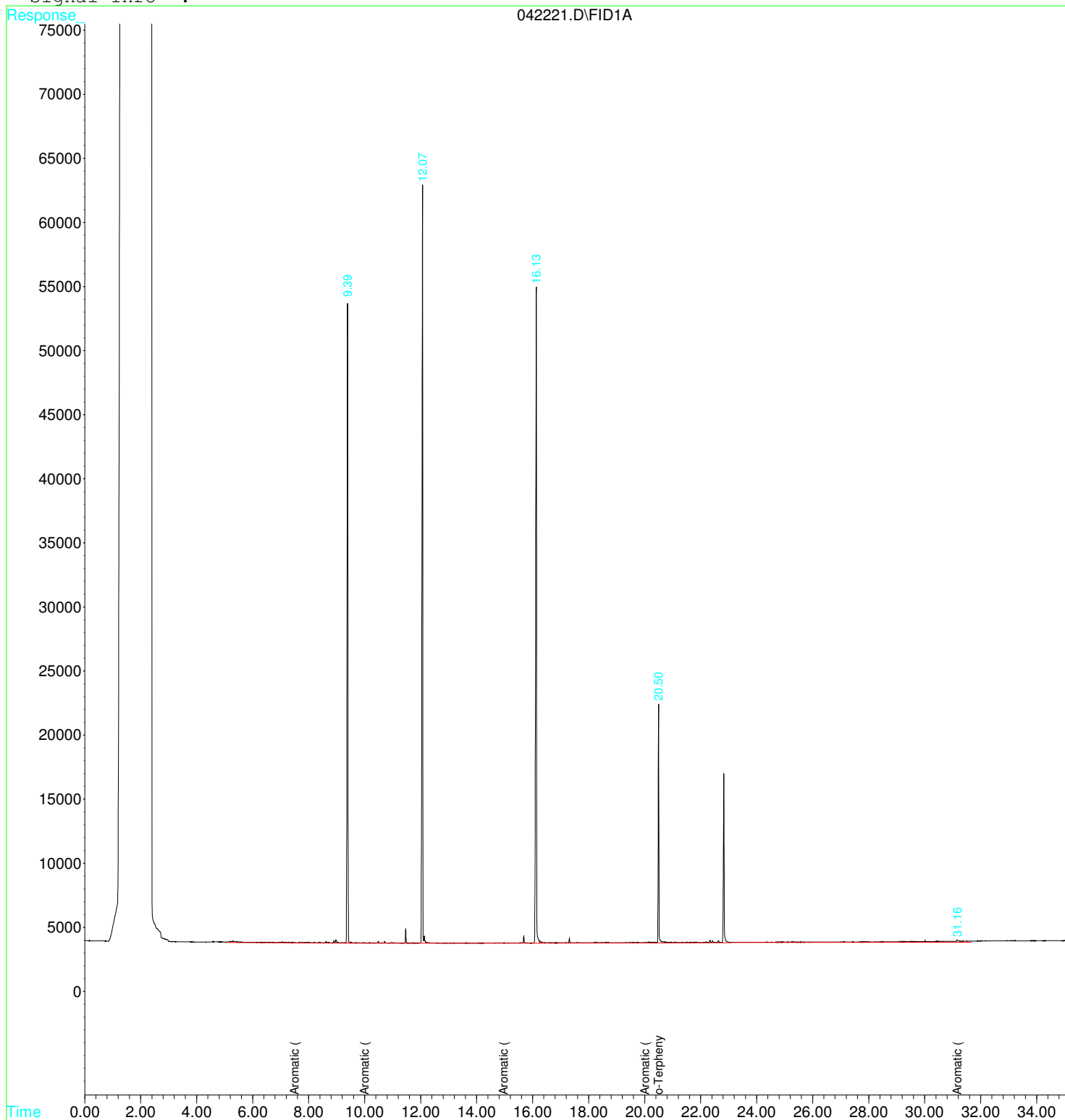
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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\042226.D Vial: 42
 Acq On : 23 Apr 2016 9:52 am Operator: CM
 Sample : 1604078-002A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:11 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

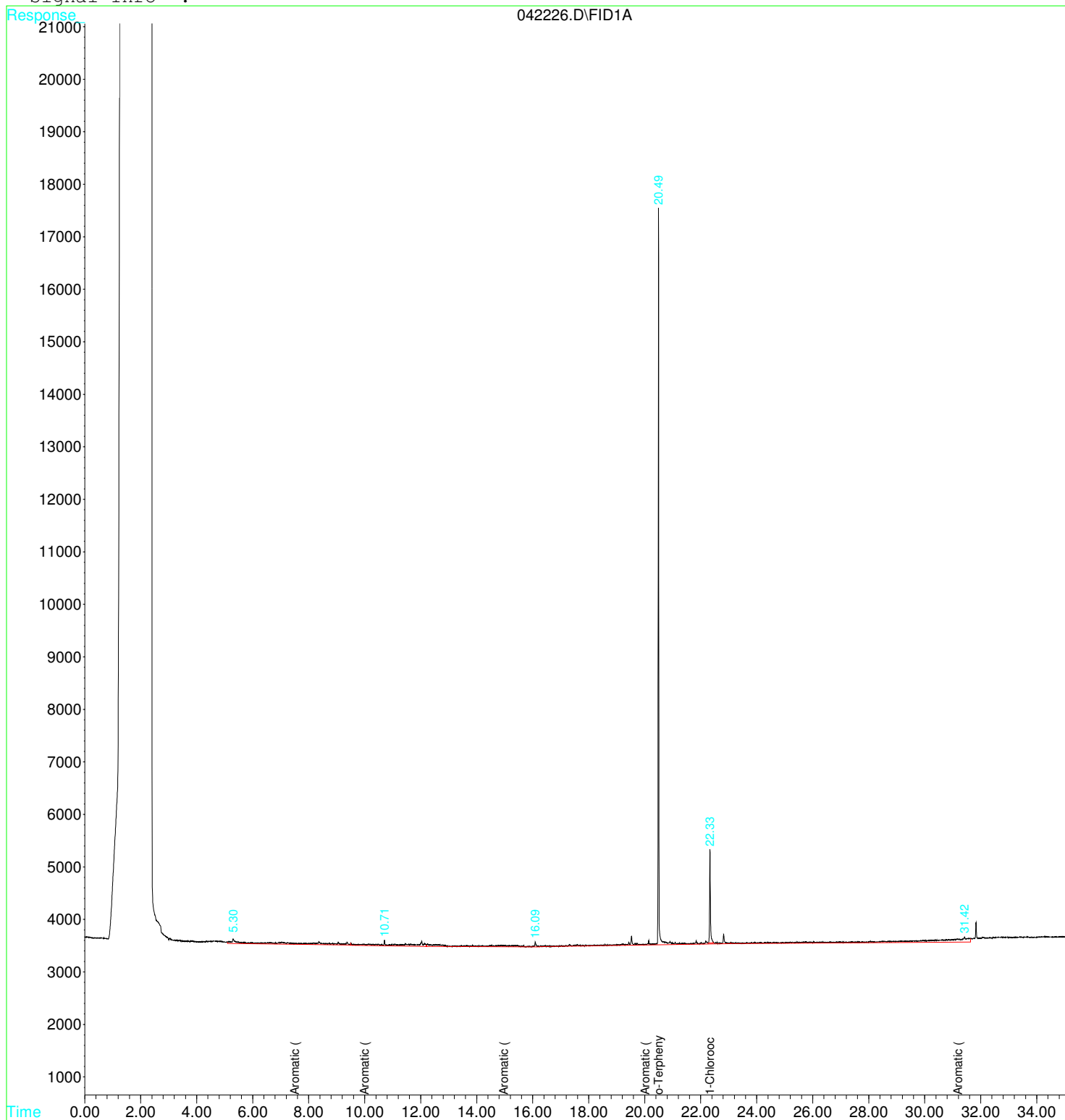
Volume Inj. :
 Signal Phase :
 Signal Info :

| Compound | R.T. | Response | Conc Units |
|-----------------------------|--------|----------|---------------|
| System Monitoring Compounds | | | |
| 1) S 1-Chlorooctadecane | 22.33f | 35911 | 25.184 mg/L m |
| 2) S o-Terphenyl | 20.49 | 217090 | 25.073 mg/L m |
| Target Compounds | | | |
| 3) H Aromatic (C8-C10) | 7.50 | 54059 | 0.104 mg/L |
| 4) H Aromatic (C10-C12) | 10.00 | 41300 | 3.188 mg/L |
| 5) H Aromatic (C12-C16) | 14.96 | 45162 | 3.806 mg/L |
| 6) H Aromatic (C16-C21) | 20.00 | 73914 | 10.280 mg/L |
| 7) H Aromatic (C21-C34) | 31.17 | 101759 | 1.173 mg/L |

Data File : C:\GC20\DATA\04221620\042226.D Vial: 42
Acq On : 23 Apr 2016 9:52 am Operator: CM
Sample : 1604078-002A Inst : GC #20
Misc : SAMP O-EPH-S Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Apr 27 13:11 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\042227.D Vial: 43
 Acq On : 23 Apr 2016 10:37 am Operator: CM
 Sample : 1604078-004A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:11 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

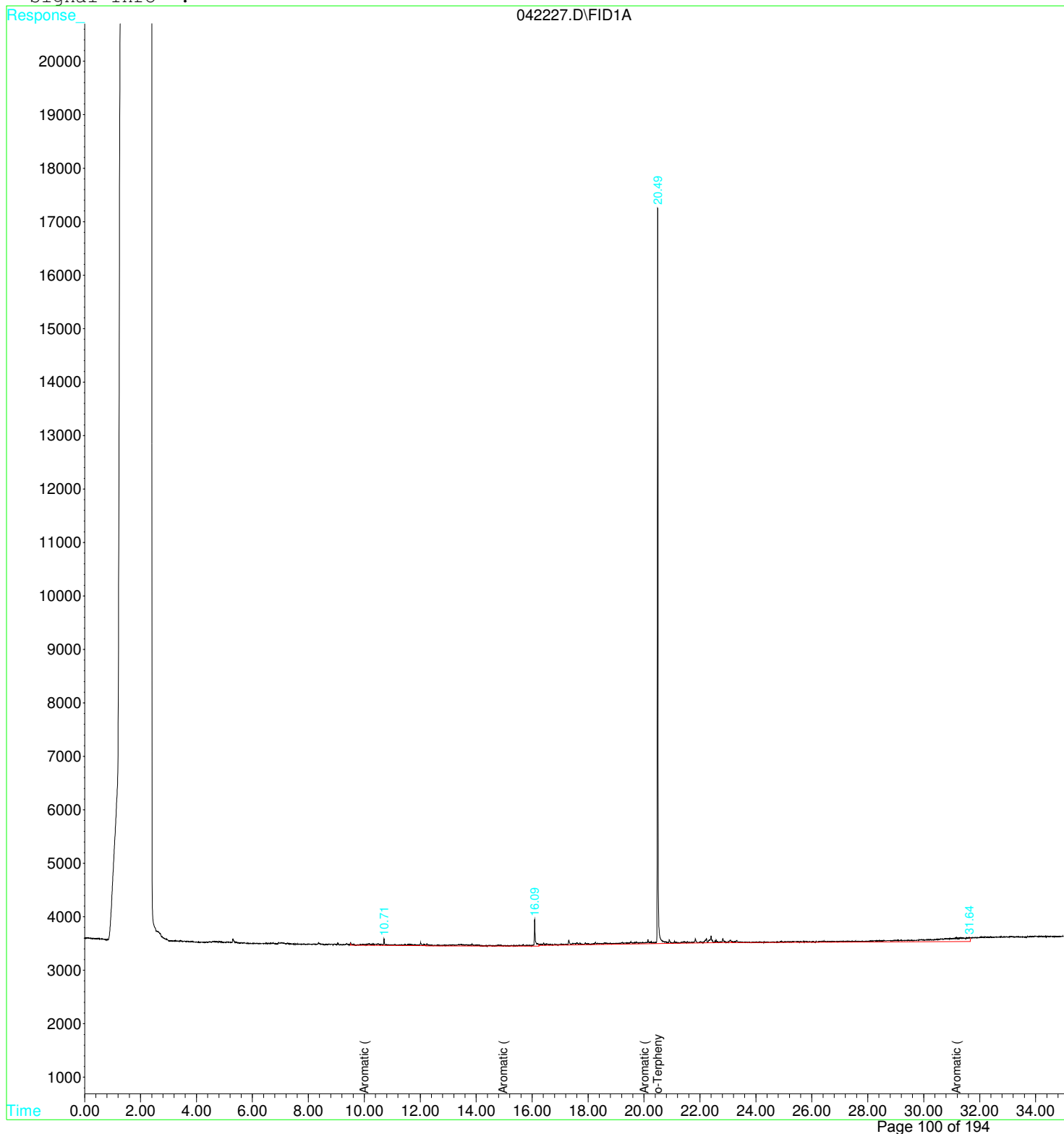
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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 | 219740 | 25.350 mg/L |
| Target Compounds | | | |
| 3) H Aromatic (C8-C10) | 7.50 | 47362 | N.D. mg/L |
| 4) H Aromatic (C10-C12) | 10.00 | 24857 | 1.919 mg/L |
| 5) H Aromatic (C12-C16) | 14.96 | 40853 | 3.443 mg/L |
| 6) H Aromatic (C16-C21) | 20.00 | 87208 | 14.956 mg/L |
| 7) H Aromatic (C21-C34) | 31.17 | 104581 | 3.883 mg/L |

Data File : C:\GC20\DATA\04221620\042227.D Vial: 43
 Acq On : 23 Apr 2016 10:37 am Operator: CM
 Sample : 1604078-004A Inst : GC #20
 Misc : SAMP O-EPH-S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Apr 27 13:11 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

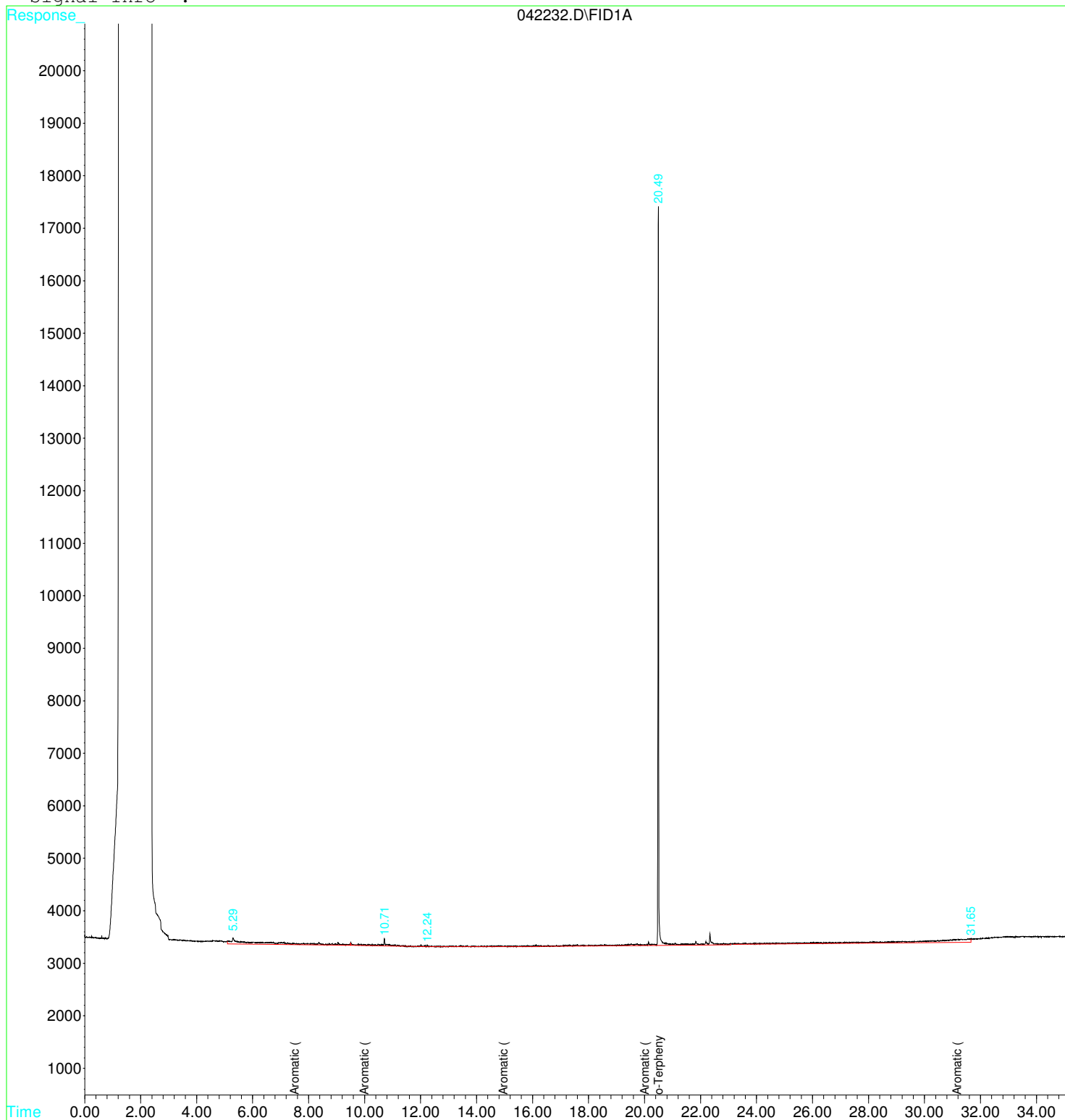
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

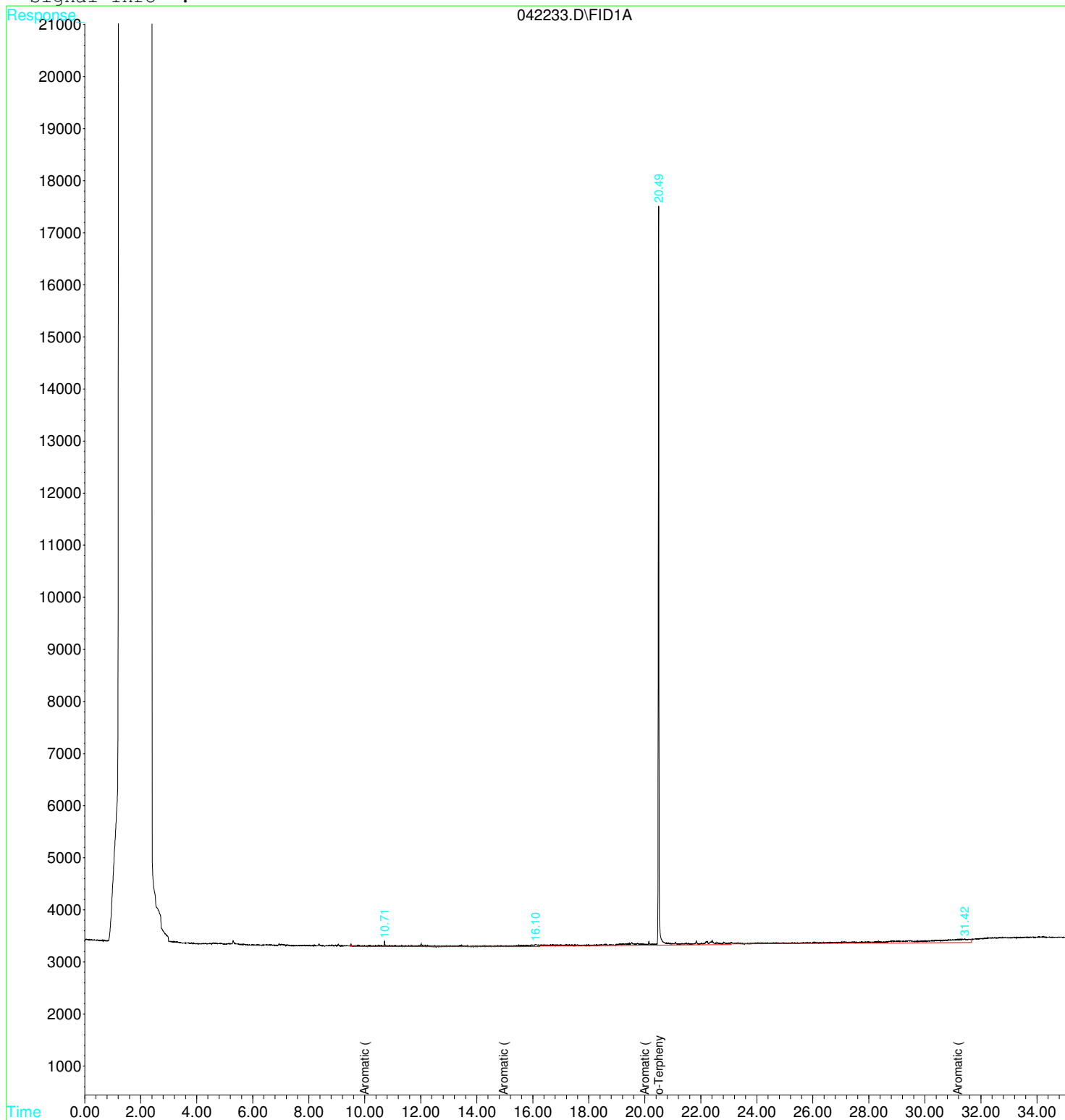
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

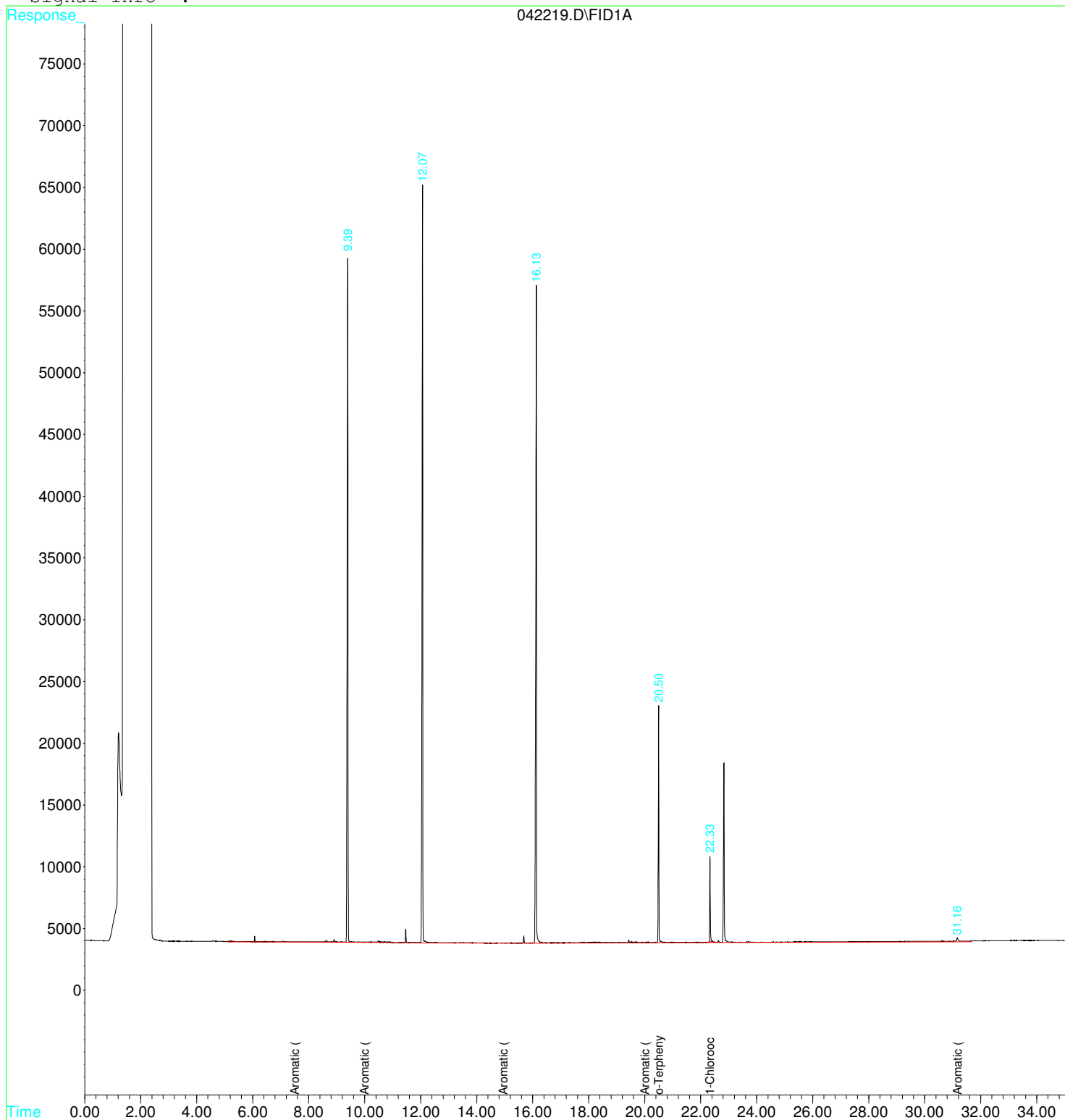
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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

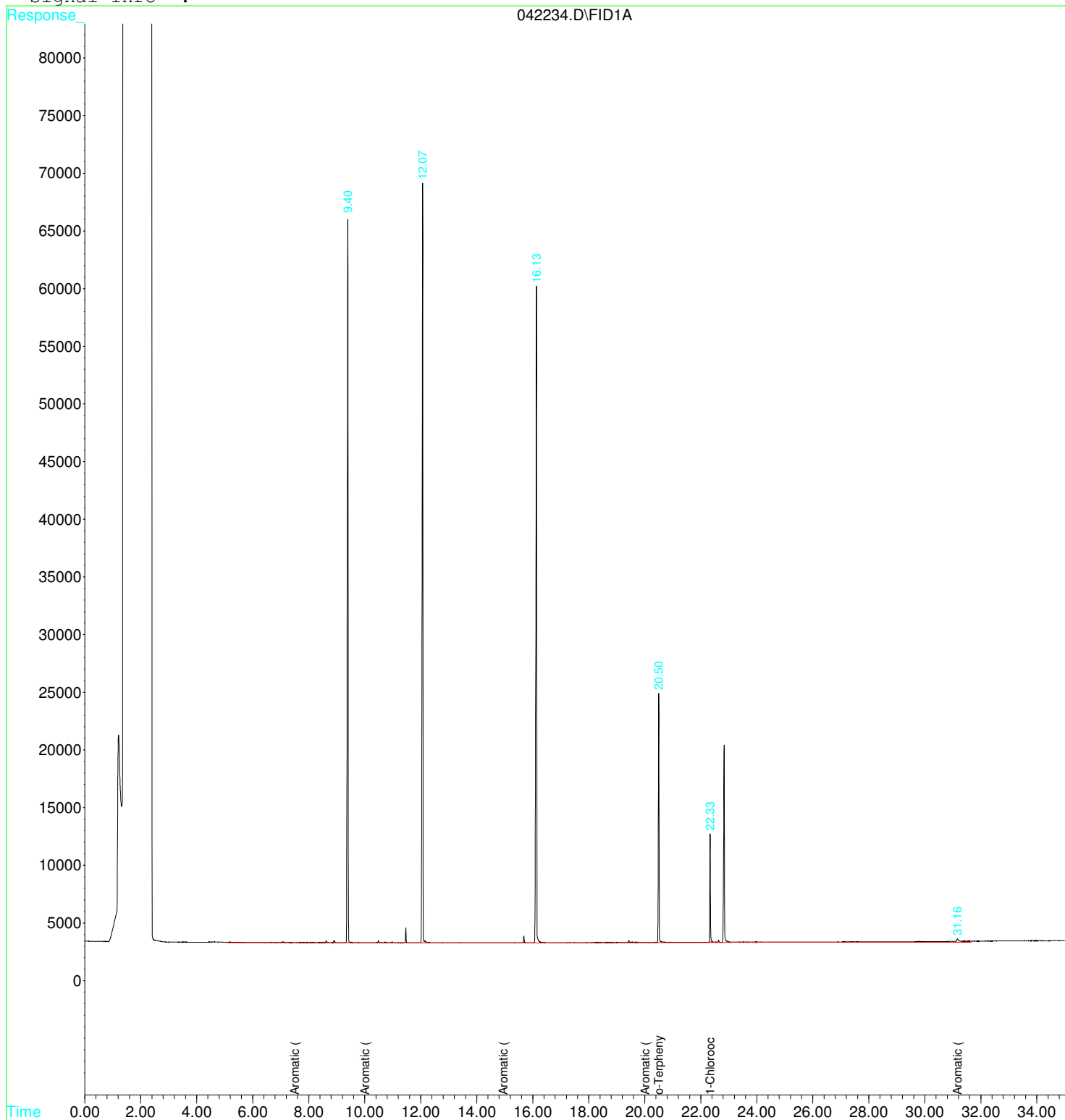
Volume Inj. :
 Signal Phase :
 Signal Info :

| 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 :





Supporting Data

Fremont Analytical, Inc.

ANALYTICAL RUN Summary

RunNo 28687

23-May-16

| 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 | 0 | | | |
| Analyte | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD |
| 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 | 0 | 539602 | | | |
| Analyte | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD |
| 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 | 0 | | | |
| Analyte | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD |
| 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 | 0 | | | |
| Analyte | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD |
| 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 | MDL | PAL | UQL | %REC | LOW | HIGH | %RPD |
|------------------|--------------------------------------|-----------|------------|------------|------------------|-------|----------|-------------|--------|--------|-----|------|-----|------|------|------|------|
| 539606 | 1604080-002A (Container-01 of 01) | PMOIST | SAMP | | 4/11/2016 10:17: | 1 | R28687 | 4/11/2016 1 | 0 | 0 | 0.1 | 0.5 | 0 | 0% | 0 | 0 | 0% |
| Analyte | | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PAL | 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 | MDL | PAL | UQL | %REC | LOW | HIGH | %RPD |
| 539607 | 1604080-004A (Container-01 of 01) | PMOIST | SAMP | | 4/11/2016 10:17: | 1 | R28687 | 4/11/2016 1 | 0 | 0 | 0.1 | 0.5 | 0 | 0% | 0 | 0 | 0% |
| Analyte | | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PAL | 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 | 0 | 0% |
| Seq No | Sample ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | MDL | PAL | UQL | %REC | LOW | HIGH | %RPD |
| 539608 | 1604081-002A (Container-01 of 01) | PMOIST | SAMP | | 4/11/2016 10:17: | 1 | R28687 | 4/11/2016 1 | 0 | 0 | 0.1 | 0.5 | 0 | 0% | 0 | 0 | 0% |
| Analyte | | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PAL | 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 | 0 | 0% |
| Seq No | Sample ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | MDL | PAL | UQL | %REC | LOW | HIGH | %RPD |
| 539609 | 1604081-004A (Container-01 of 01) | PMOIST | SAMP | | 4/11/2016 10:17: | 1 | R28687 | 4/11/2016 1 | 0 | 0 | 0.1 | 0.5 | 0 | 0% | 0 | 0 | 0% |
| Analyte | | T Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PAL | 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 | 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

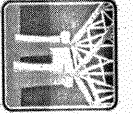
Samuel Beerman
Balance 2

641116

| 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

ANALYSIS EPH CALIBRATION

Mega
Run # 28953

Date/Time: 4/21/2016
Analyst: Wendy Chavez
Matrix: _____

| SAMPLE ID | PPM | SUR | REMOVE | FINAL | COMMENTS |
|-----------|------|-----|--------|-------|----------|
| 1 | ALU | 10 | 4 | 4 | 1000 |
| 2 | 20 | 20 | 2 | 4 | 1000 |
| 3 | 50 | 20 | 5 | 10 | 1000 |
| 4 | 100 | 40 | 10 | 20 | 1000 |
| 5 | 200 | 100 | 25 | 45 | 1000 |
| 6 | 500 | 200 | 50 | 100 | 1000 |
| 7 | 1000 | 400 | 100 | 200 | 100 |
| 8 | 2000 | 800 | 200 | 400 | 100 |
| 9 | | | | | |
| 10 | ALU | 10 | 4 | 4 | 1000 |
| 11 | 20 | 20 | 2 | 4 | 1000 |
| 12 | 50 | 20 | 5 | 10 | 1000 |
| 13 | 100 | 40 | 10 | 20 | 1000 |
| 14 | 200 | 100 | 25 | 45 | 1000 |
| 15 | 500 | 200 | 50 | 100 | 1000 |
| 16 | 1000 | 400 | 100 | 200 | 100 |
| 17 | 2000 | 800 | 200 | 400 | 100 |
| 18 | | | | | |
| 19 | ICR | 46 | 10 | 10 | 1000 |
| 20 | ICU | 40 | 26 | 1000 | |

AROMATIC # 17526

SS AROMATIC # 17524

ALIPHATIC # 17529

SS ALIPHATIC # 17531

SURROGATE # 18510

Sample set requires a CCV, MBLK, LCS, DUP and MS/MSD. Comments required if set is incomplete.

4/21/16
[Signature]

Signature: NM
Blank Bench Sheet Version 1.1

CONFIDENTIAL

Official approved: 03/07/2016

Fremont Analytical, Inc.

PREP BATCH REPORT

Prep Start Date: 4/6/2016 8:56:10 A
 Prep End Date: 4/14/2016 10:48:42

Prep Factor Units:

Prep Batch ID: 13403 Prep Code: PREP-EPPH-S Method No: SW3550C Technician: Wendy Chang

mL / g

Initial Temp: °C Final Temp °C

| Sample ID | ClientSampleID | Matrix | pH1 | pH2 | SampAmt | Sol Added | Sol Recov | Fin Vol | factor | PrepStart | PrepEnd |
|-----------------|--------------------|----------|-----|-----|---------|-----------|-----------|---------|--------|-----------|-----------|
| MB-13403 | | Soil | | | 10 | 0 | 0 | 5 | 0.500 | 4/6/2016 | 4/14/2016 |
| LCS-13403 | | Soil | | | 10 | 0 | 0 | 5 | 0.500 | 4/6/2016 | 4/14/2016 |
| 1604014-001A | NSW3:231 | Soil | | | 11.28 | 0 | 0 | 5 | 0.443 | 4/6/2016 | 4/14/2016 |
| 1604015-001A | WSW2-11 | Soil | | | 11.14 | 0 | 0 | 5 | 0.449 | 4/6/2016 | 4/14/2016 |
| 1604015-001AMS | | Soil | | | 10.17 | 0 | 0 | 5 | 0.492 | 4/6/2016 | 4/14/2016 |
| 1604015-001AMSD | | Soil | | | 11.43 | 0 | 0 | 5 | 0.437 | 4/6/2016 | 4/14/2016 |
| 1604015-002A | B1-18 | Soil | | | 10.83 | 0 | 0 | 5 | 0.462 | 4/6/2016 | 4/14/2016 |
| 1604015-002ADUP | | Soil | | | 10.98 | 0 | 0 | 5 | 0.455 | 4/6/2016 | 4/14/2016 |
| 1604049-001A | HC01-30 | Soil | | | 11.12 | 0 | 0 | 5 | 0.450 | 4/6/2016 | 4/14/2016 |
| 1604050-001A | HC04-40 | Soil | | | 11.12 | 0 | 0 | 5 | 0.450 | 4/6/2016 | 4/14/2016 |
| 1604078-002A | 5237-160328-DC-SE | Sediment | | | 11.34 | 0 | 0 | 5 | 0.441 | 4/6/2016 | 4/14/2016 |
| 1604078-004A | 5237-160328-DC-SE | Sediment | | | 11.1 | 0 | 0 | 5 | 0.450 | 4/6/2016 | 4/14/2016 |
| 1604079-002A | 5237-160330-DC-EM | Soil | | | 10.3 | 0 | 0 | 5 | 0.485 | 4/6/2016 | 4/14/2016 |
| 1604080-002A | 5237-160331-NDP-SE | Sediment | | | 14.93 | 0 | 0 | 5 | 0.335 | 4/6/2016 | 4/14/2016 |
| 1604080-004A | 5237-160331-NDP-SE | Sediment | | | 21.07 | 0 | 0 | 5 | 0.237 | 4/6/2016 | 4/14/2016 |
| 1604081-002A | 5237-160401-DC-EM | Soil | | | 10.46 | 0 | 0 | 5 | 0.478 | 4/6/2016 | 4/14/2016 |
| 1604081-004A | 5237-160401-NDP-E | Soil | | | 11.29 | 0 | 0 | 5 | 0.443 | 4/6/2016 | 4/14/2016 |
| 1604081-004ADUP | | Soil | | | 11.36 | 0 | 0 | 5 | 0.440 | 4/6/2016 | 4/14/2016 |

| 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 |

O-EPPH-1-Ref-AliphaticCheckMix 02/23/16 EPH Aliphatic Check Mix lcs, ms, msd 17987 Container-02 of 08 250 µL

O-EPPH-1-Ref-AromaticCheckMix 2/23/16 (EPH Aromatic Hydrocarbon Mix lcs, ms, msd 17985 Container-06 of 06 250 µL

O-FID-EPPH-1SURR 3/2/2016 EPH SURR 4000 PPM all 18010 Container-01 of 01 250 µL

Equipment ID Description

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.

4/11/2010
Spike witness signature
04/11/10

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
Revision 2 04/11/10

Ball 3
4/6/16
FAMM
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 11.36

wet sand; get volume also
 8/9 04/11/16
 14.93
 High Moisture adjusted

Balance #2
4-11-16

17528-17532



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-2683 | 260540 | ≤ -10 °C -10X | Methylene Chloride | 9/15/2017 | EPH Aliphatic Check Mix, 10,000 mg/L, 5 x 1 mL |

| 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: J. Zucker

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



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 |

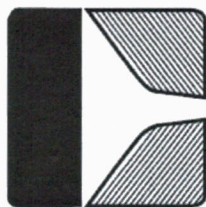
Certified By: J. Zucke

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

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.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
| CCO-2683 | 260540 | ≤ -10 °C | Methylene Chloride | 9/15/2017 | 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.

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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. 1604078

Apex Laboratories

Project Name: A6C1076

This Data set contains the following:

- Analytical Sequence Summary for **Work Order 1604078**
- Raw Printouts and Chromatograms for Analytical Sequence(s) governing **Work Order 1604078** 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 |

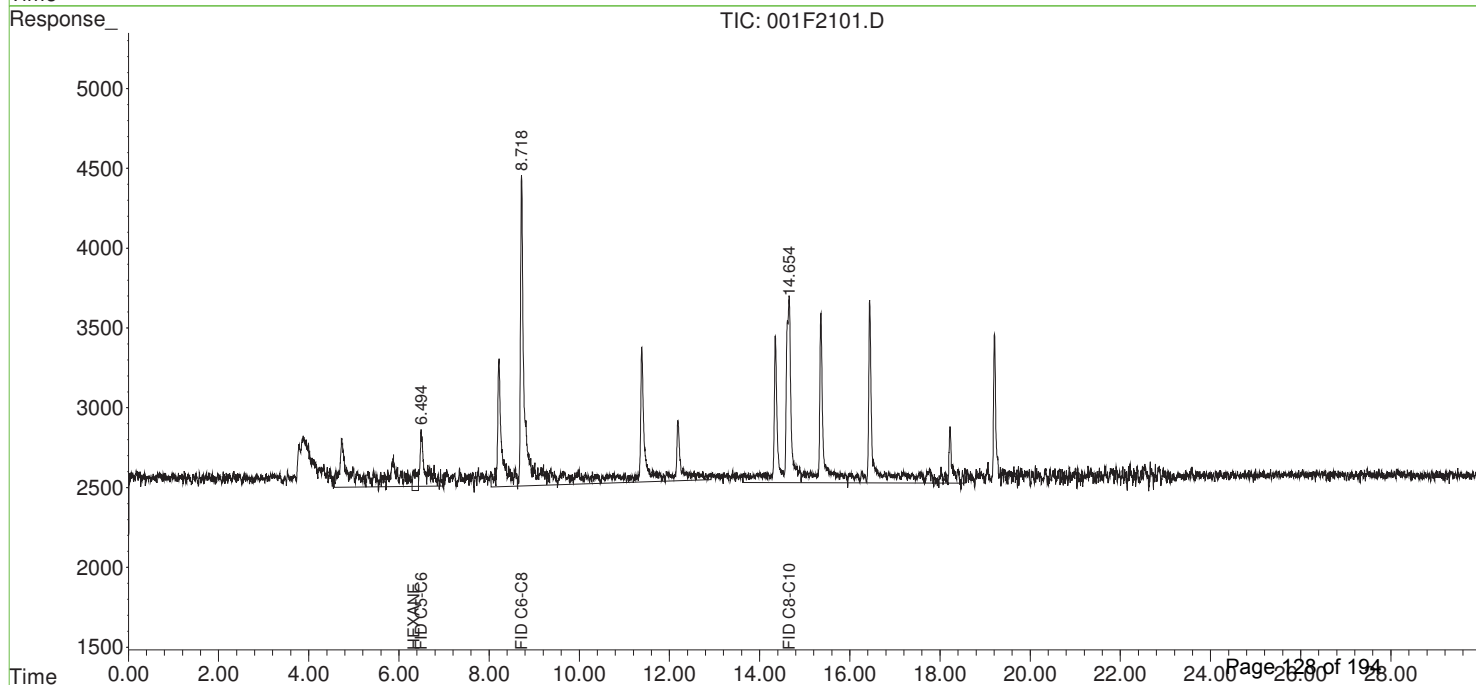
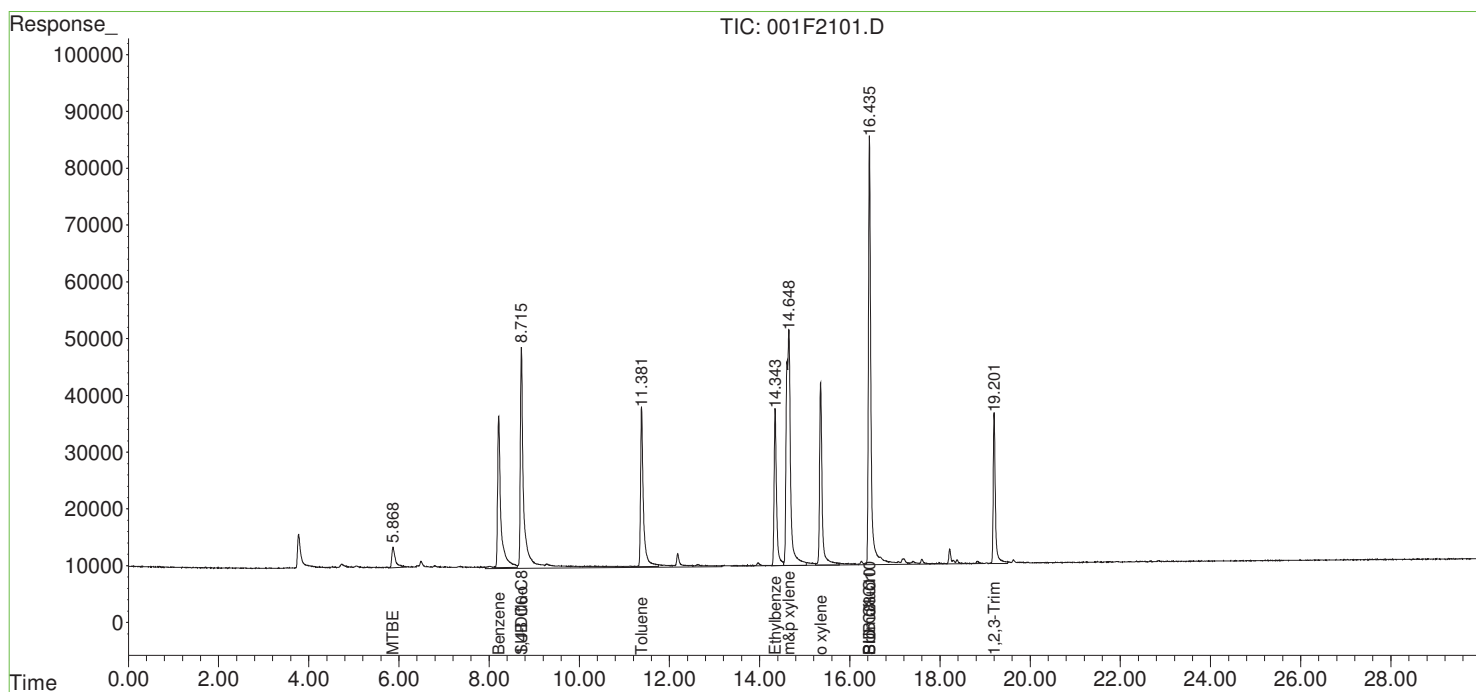
(f)=RT Delta > 1/2 Window

(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 |

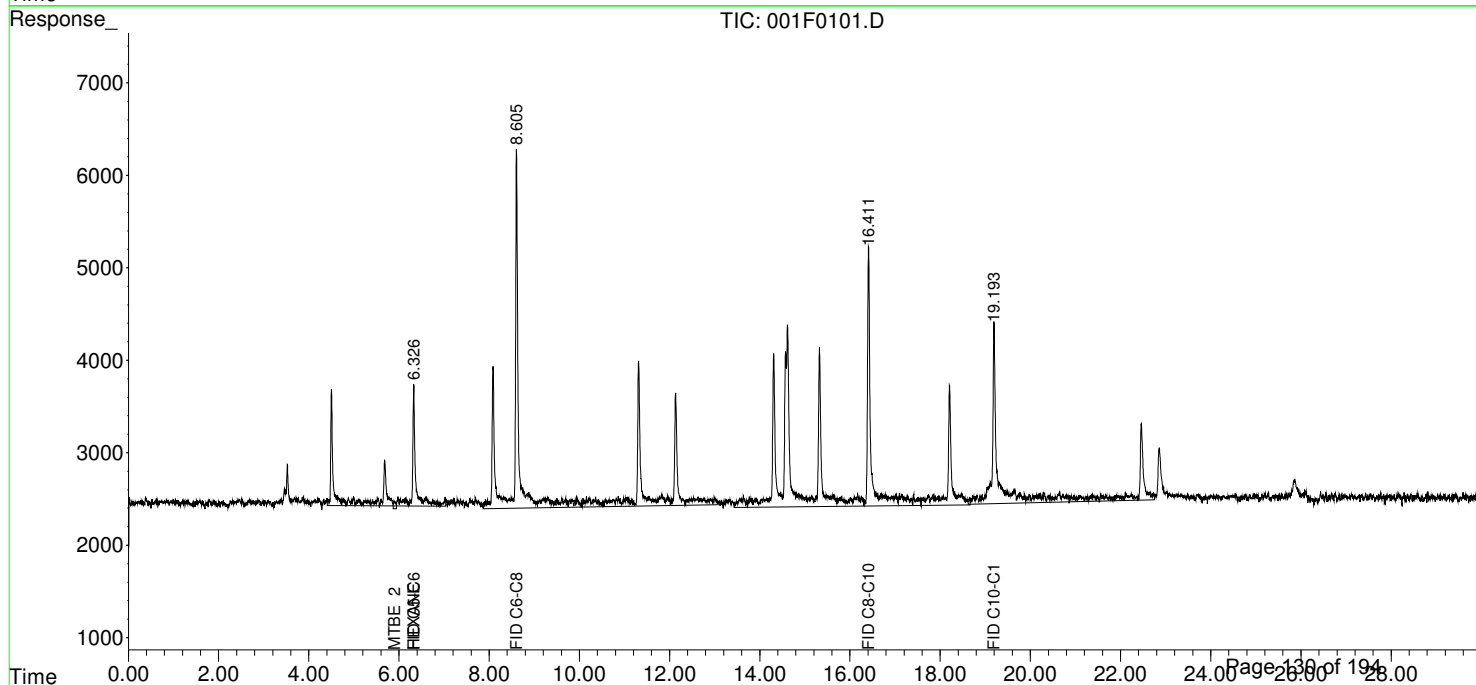
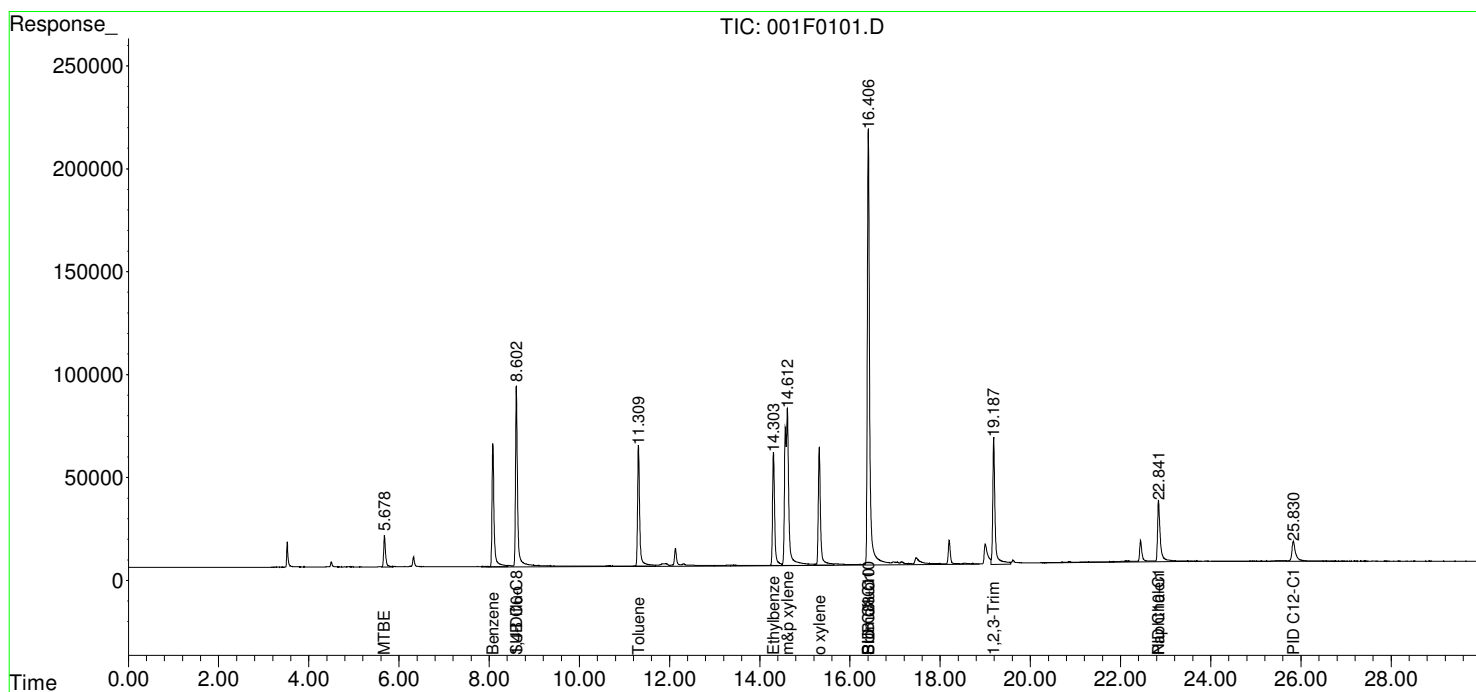
(f)=RT Delta > 1/2 Window

(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 |

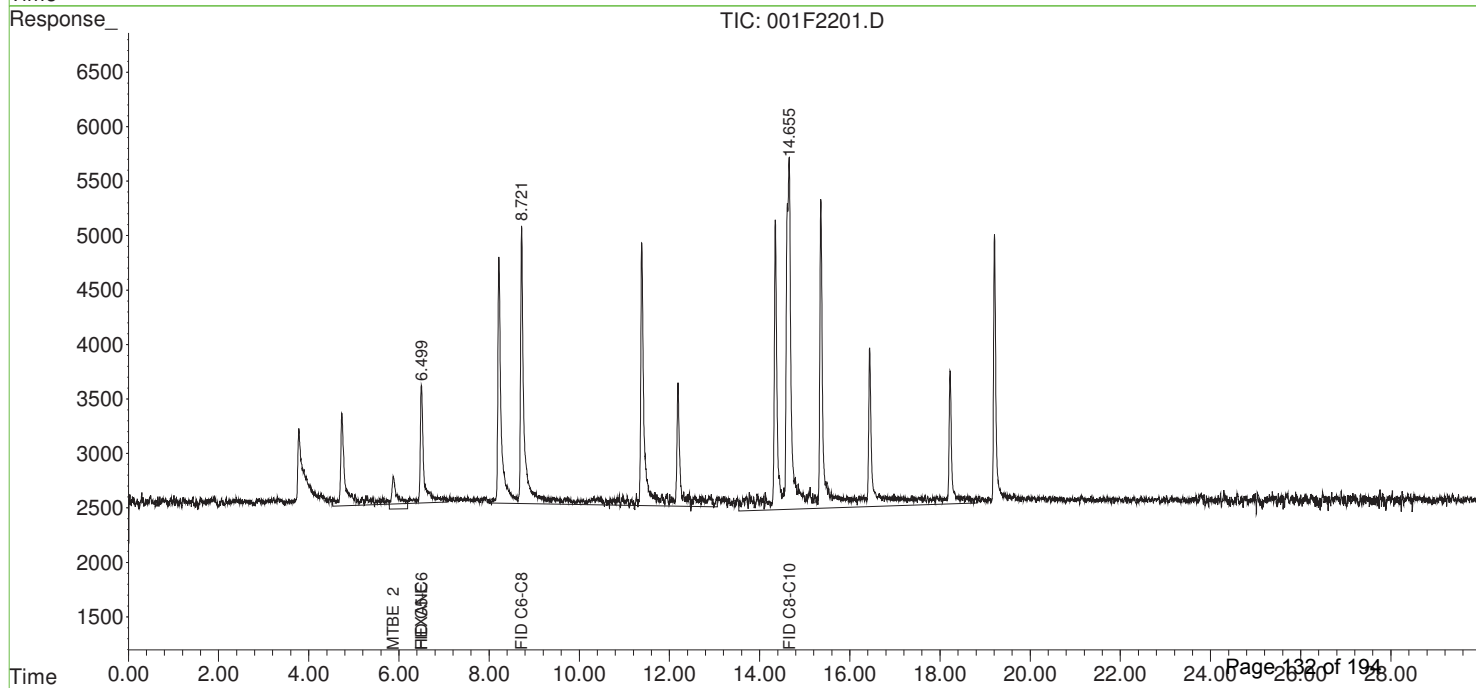
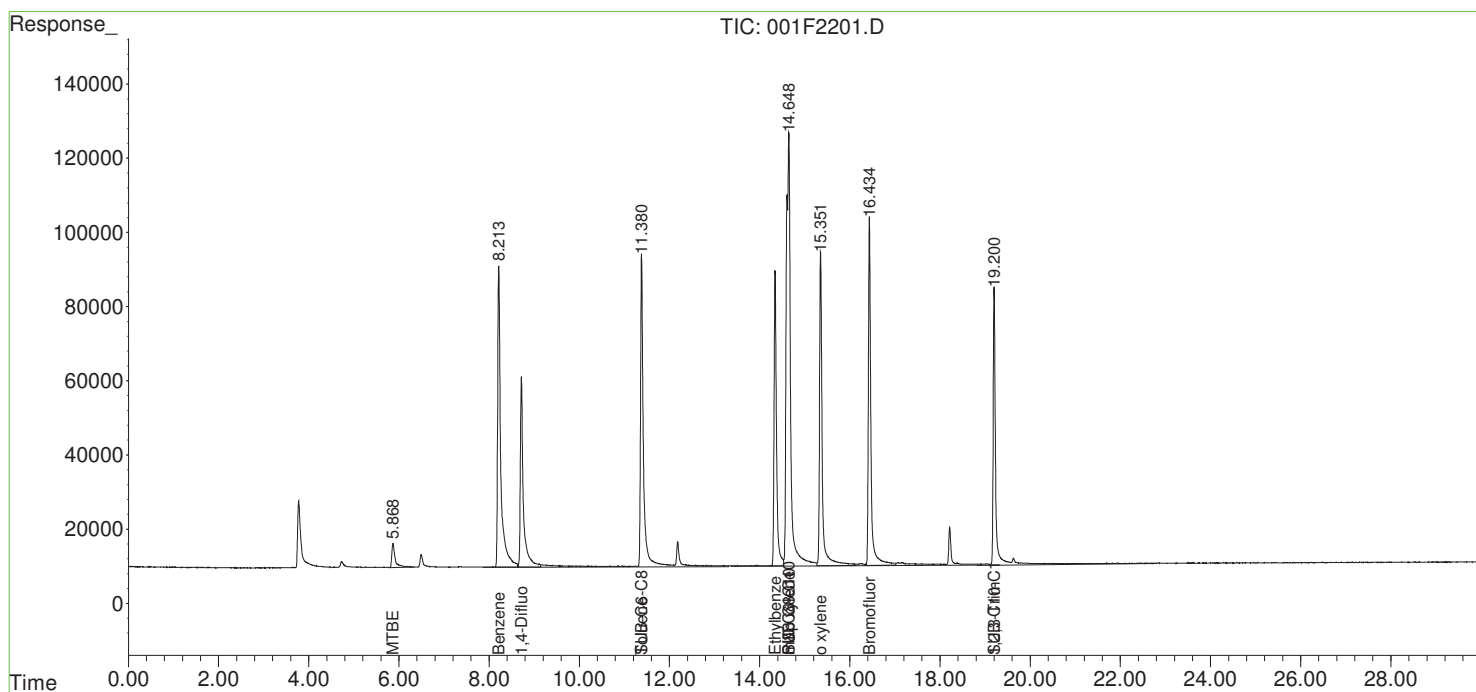
(f)=RT Delta > 1/2 Window

(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 |

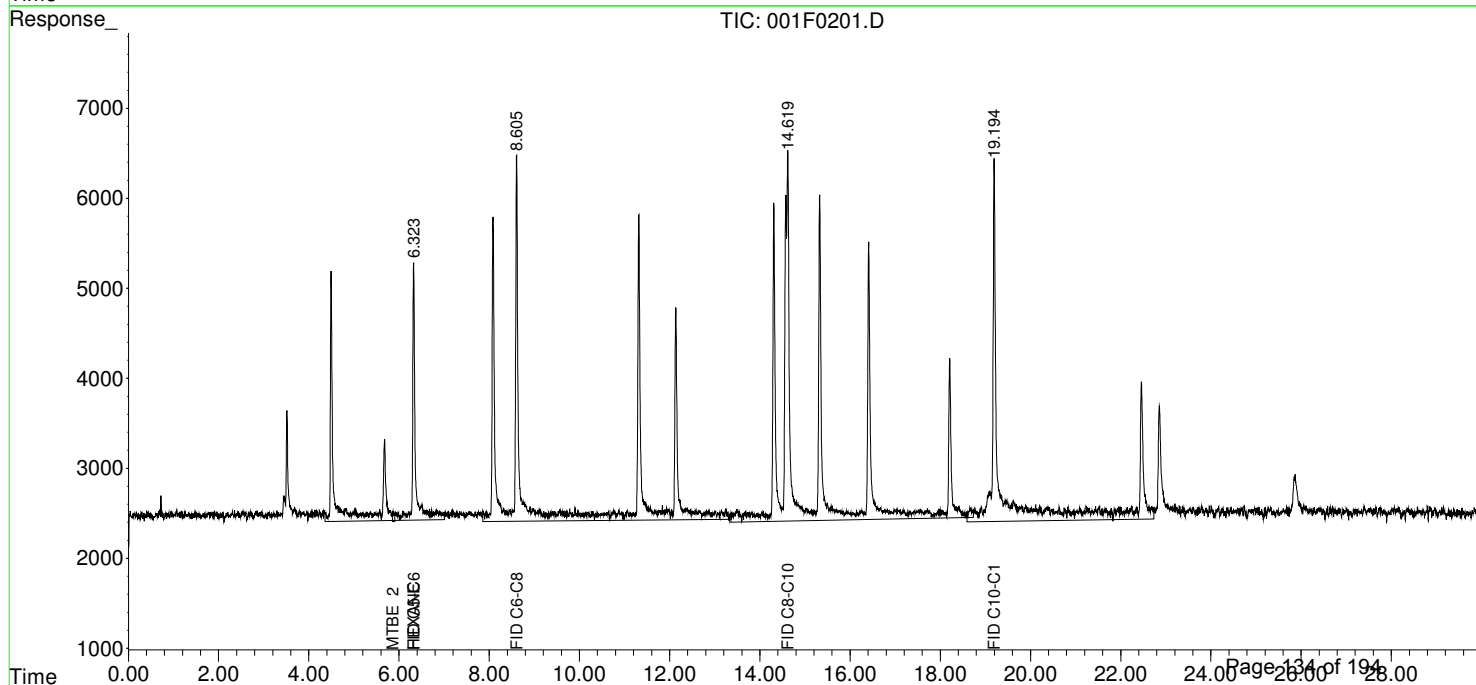
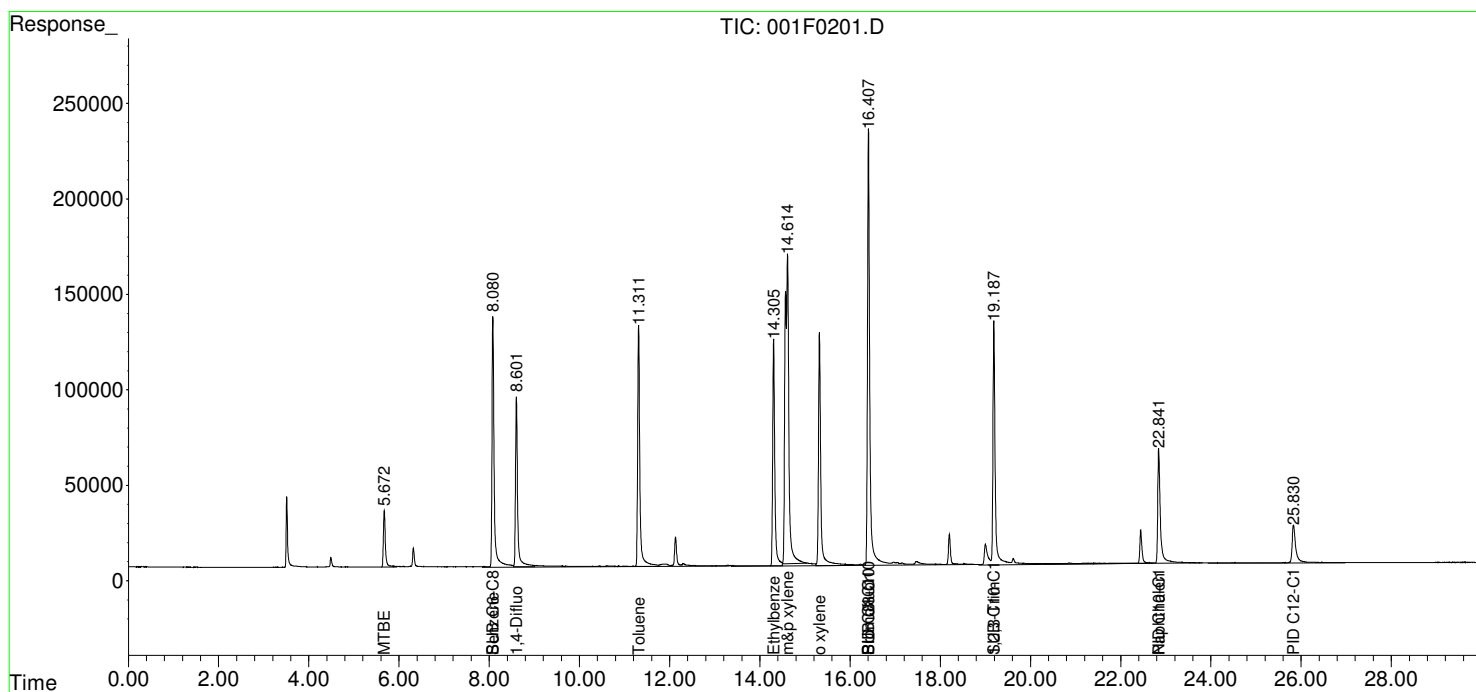
(f)=RT Delta > 1/2 Window

(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 |

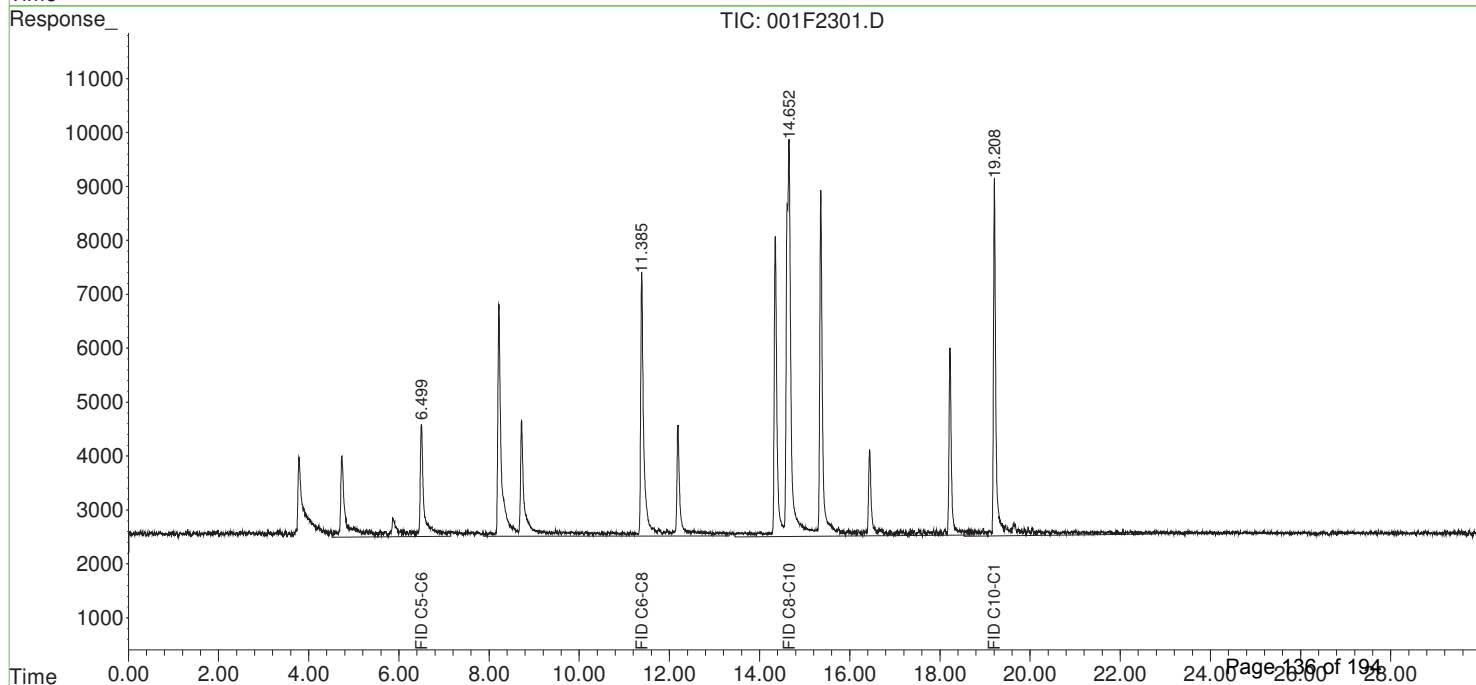
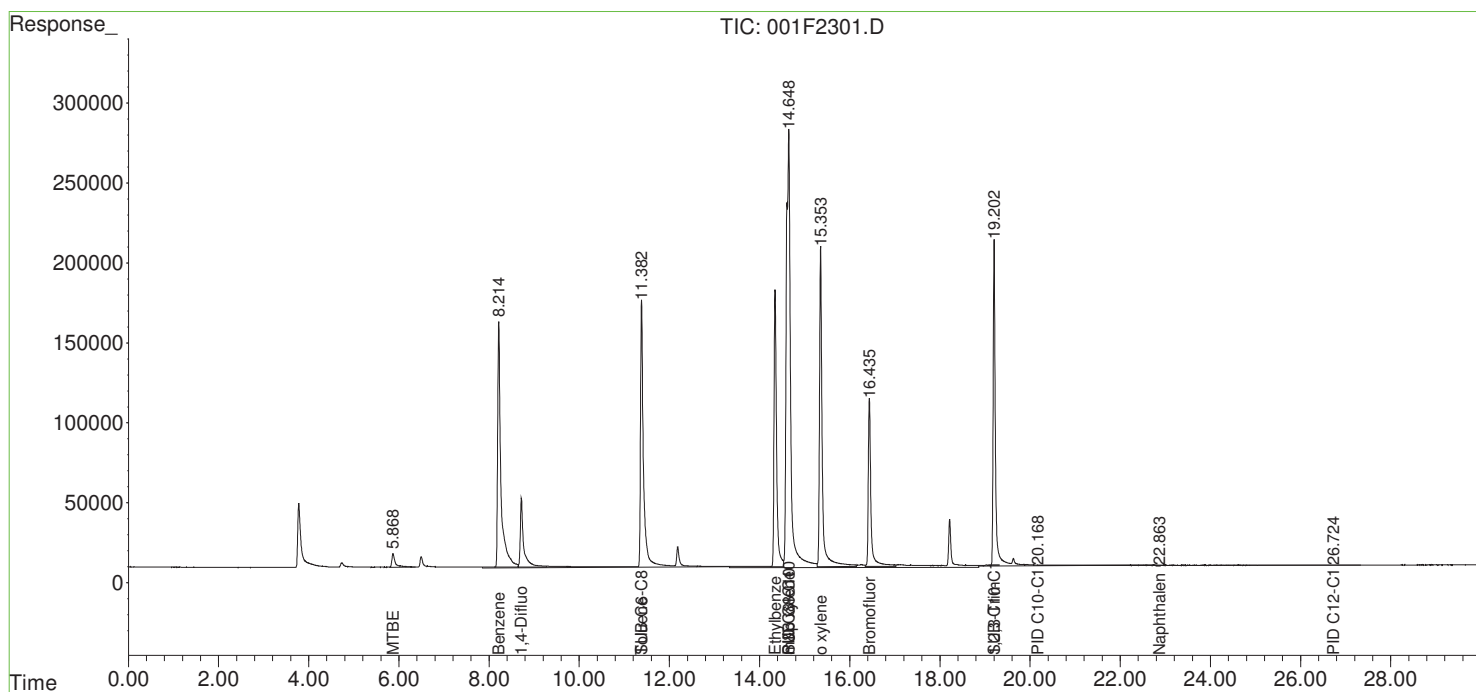
(f)=RT Delta > 1/2 Window

(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 |

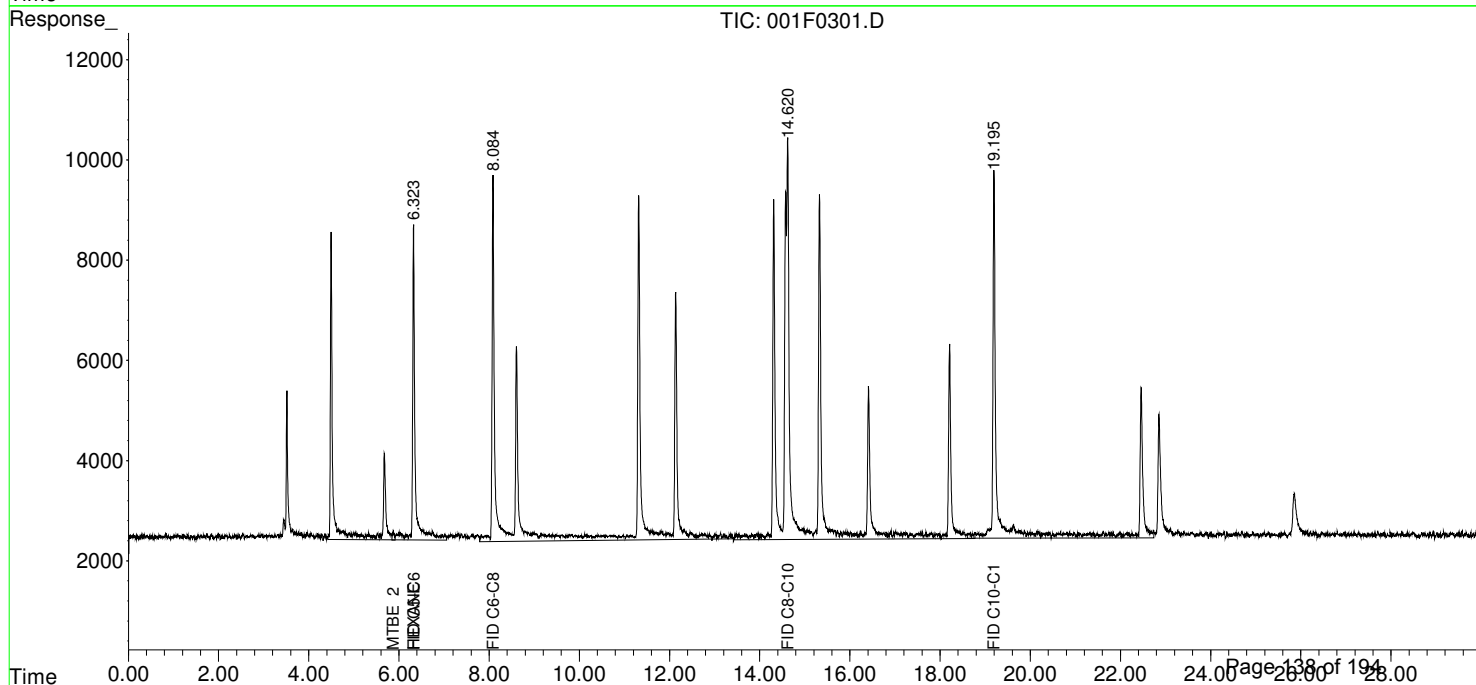
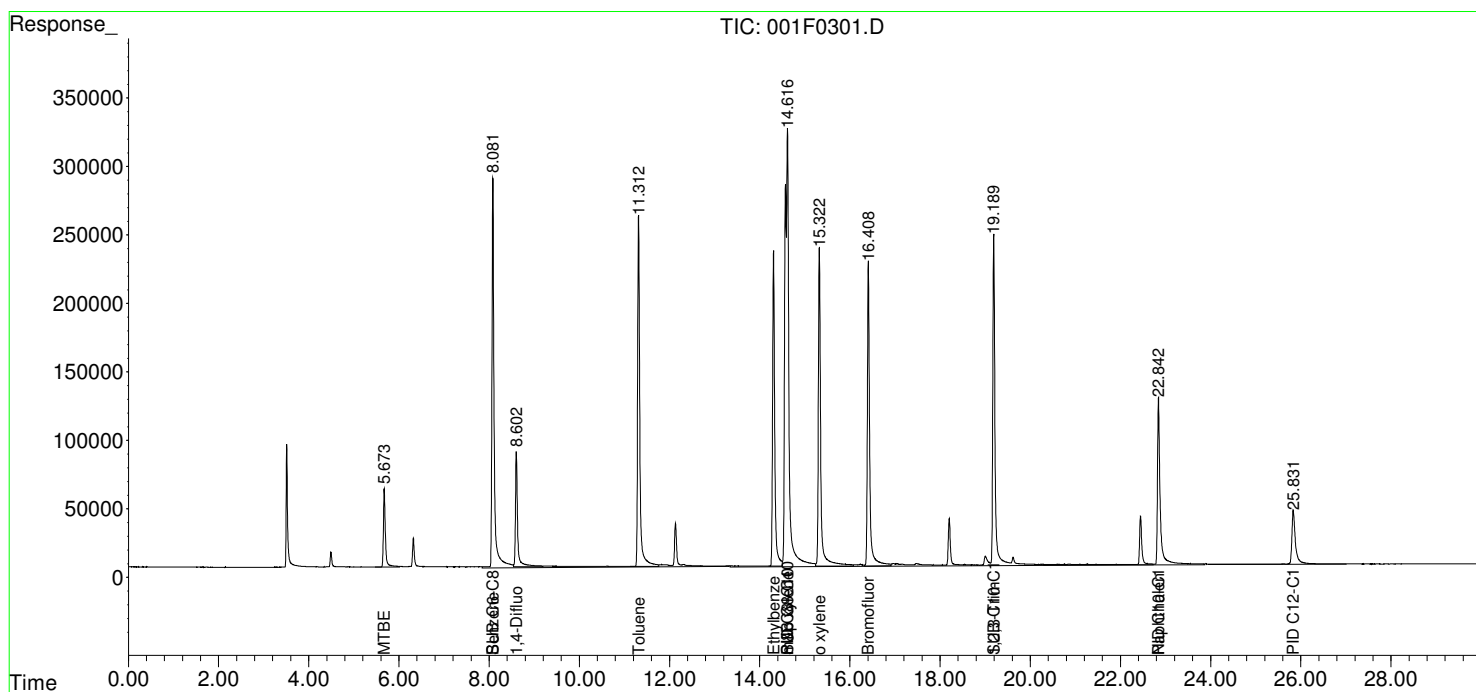
(f)=RT Delta > 1/2 Window

(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 |

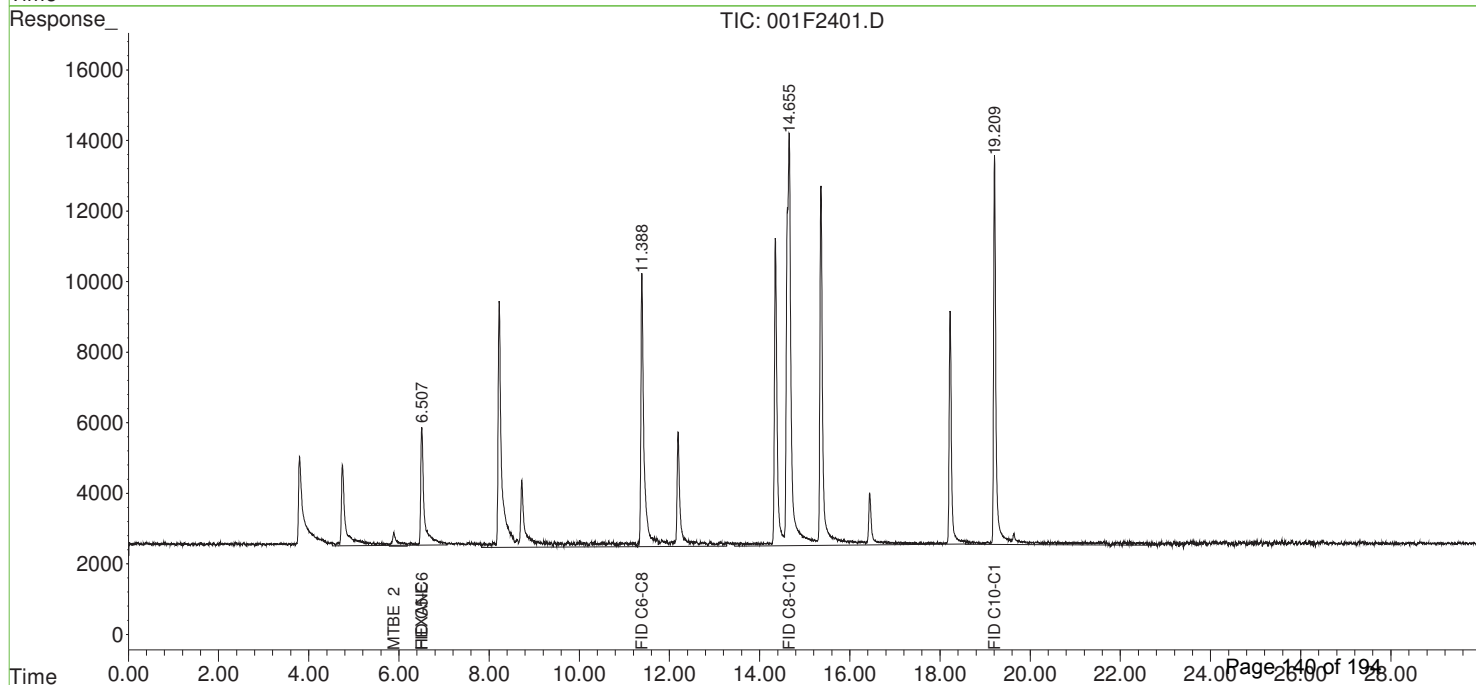
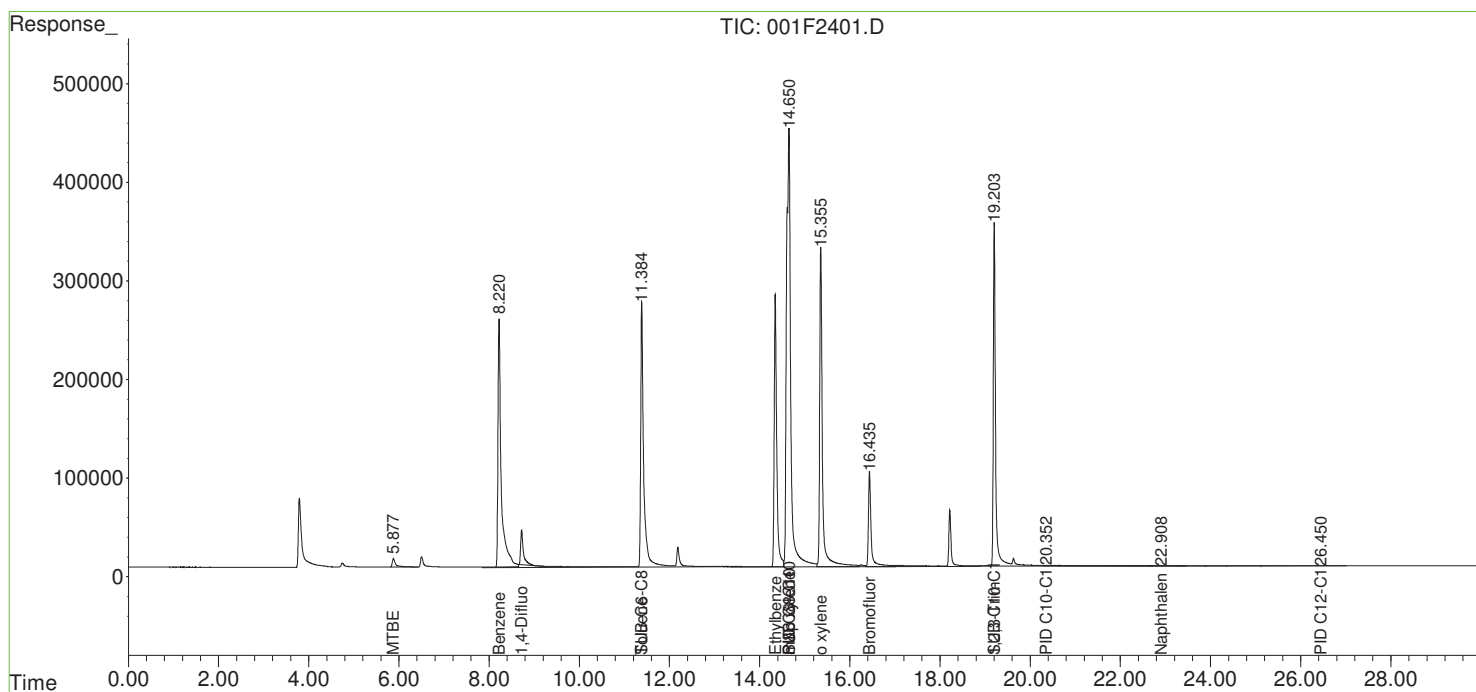
(f)=RT Delta > 1/2 Window

(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 |

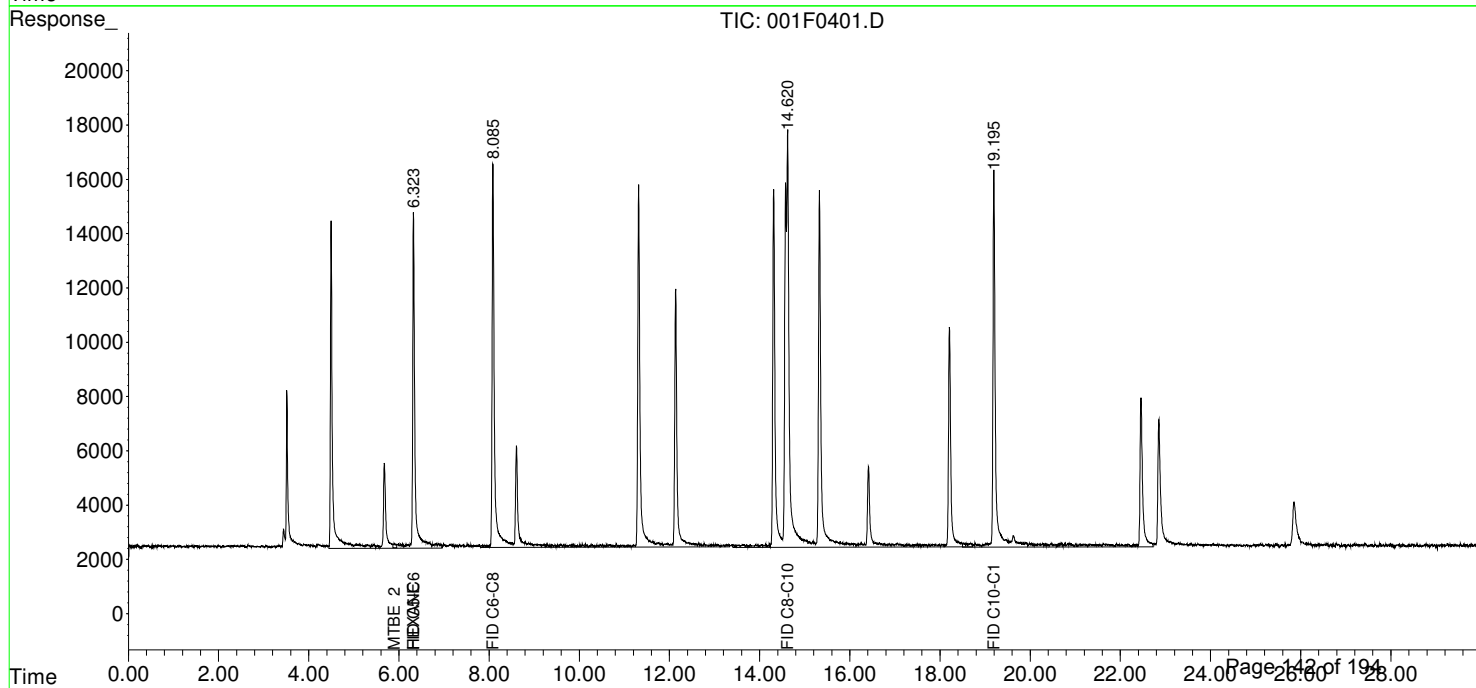
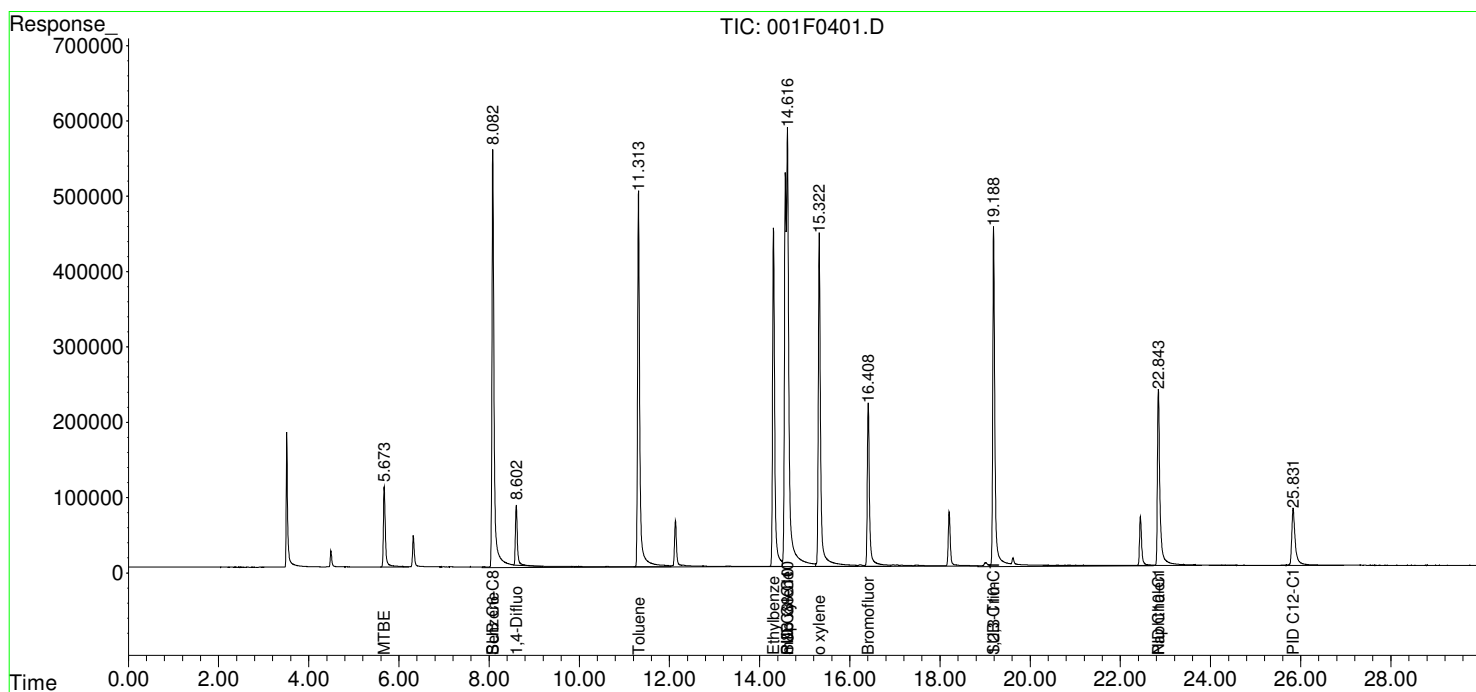
(f)=RT Delta > 1/2 Window

(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 |

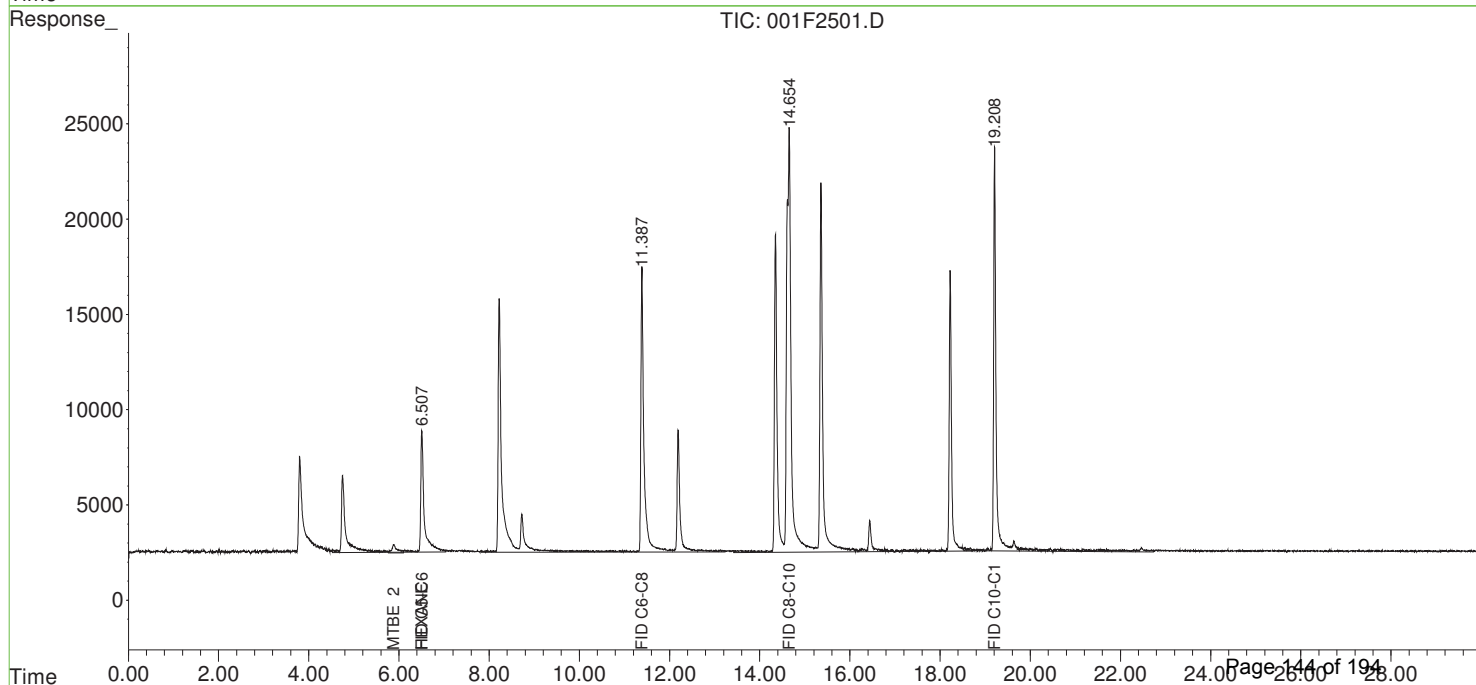
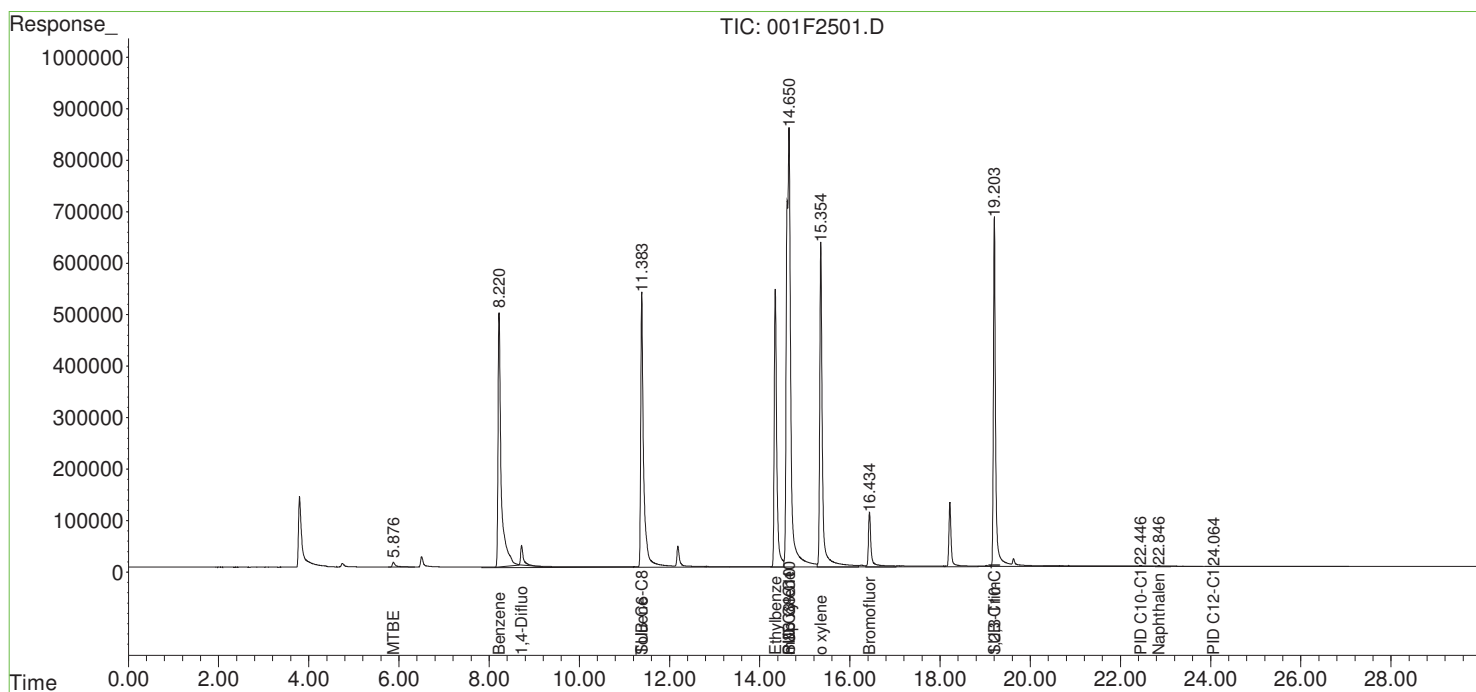
(f)=RT Delta > 1/2 Window

(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 |

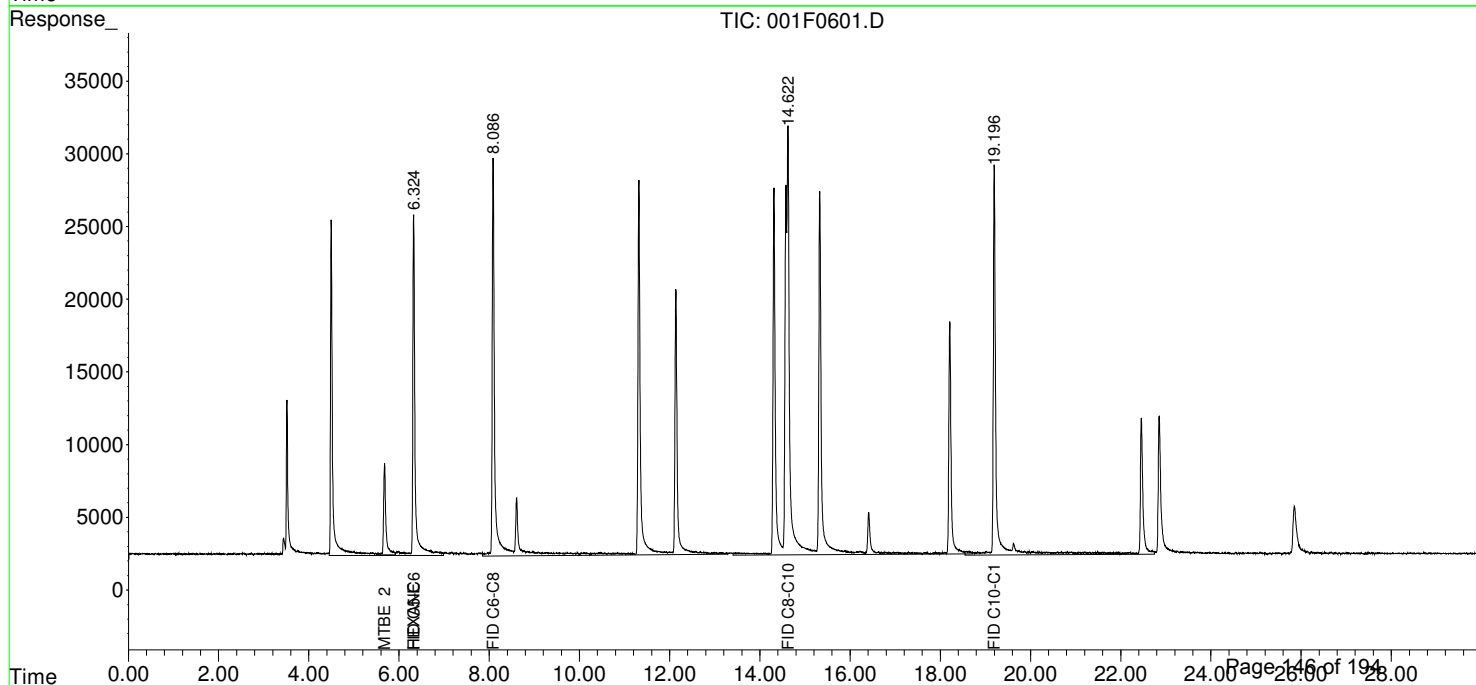
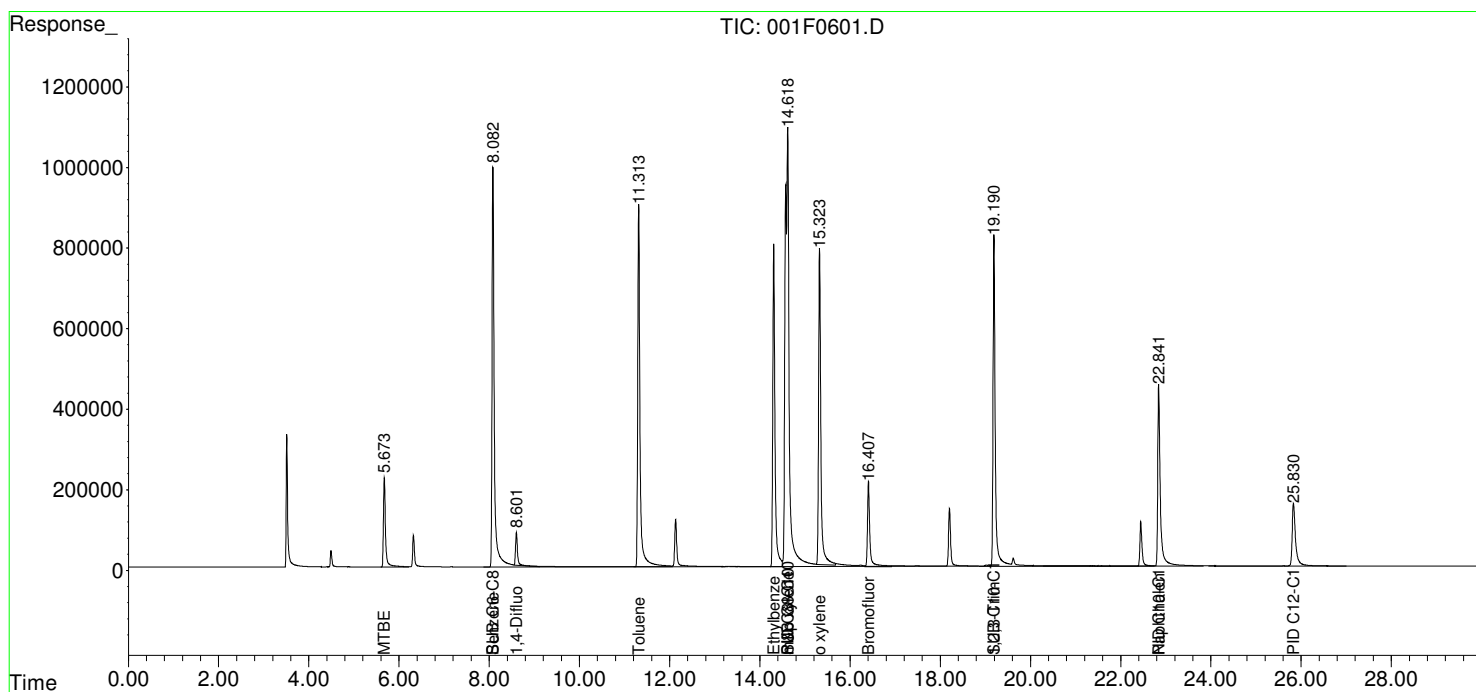
(f)=RT Delta > 1/2 Window

(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 |

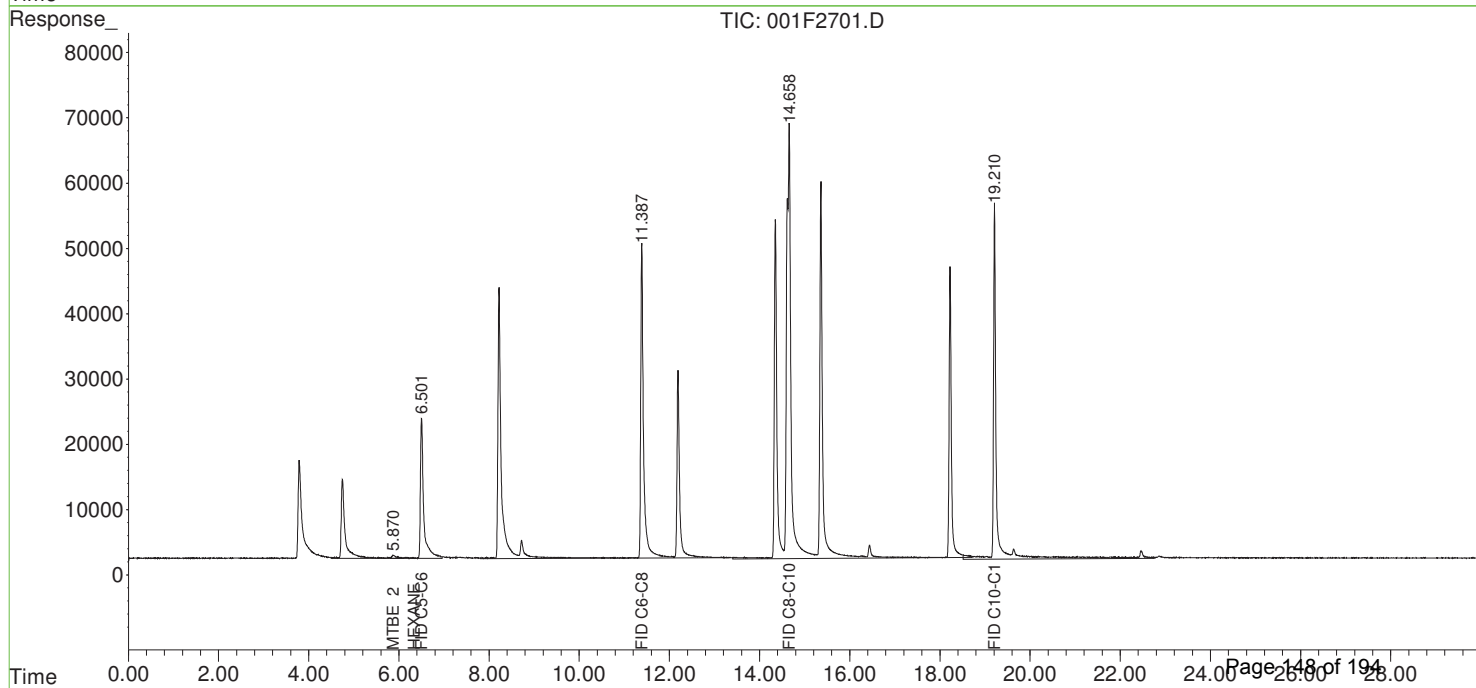
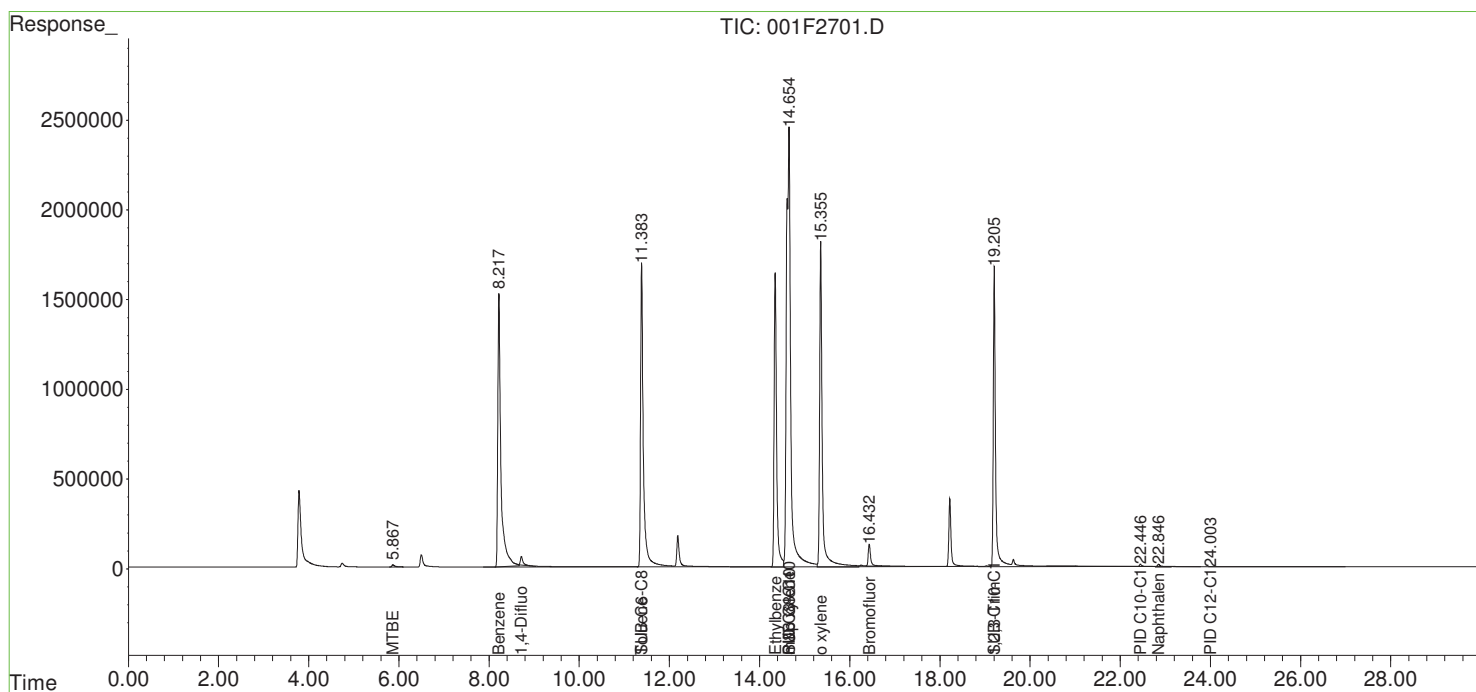
(f)=RT Delta > 1/2 Window

(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 |

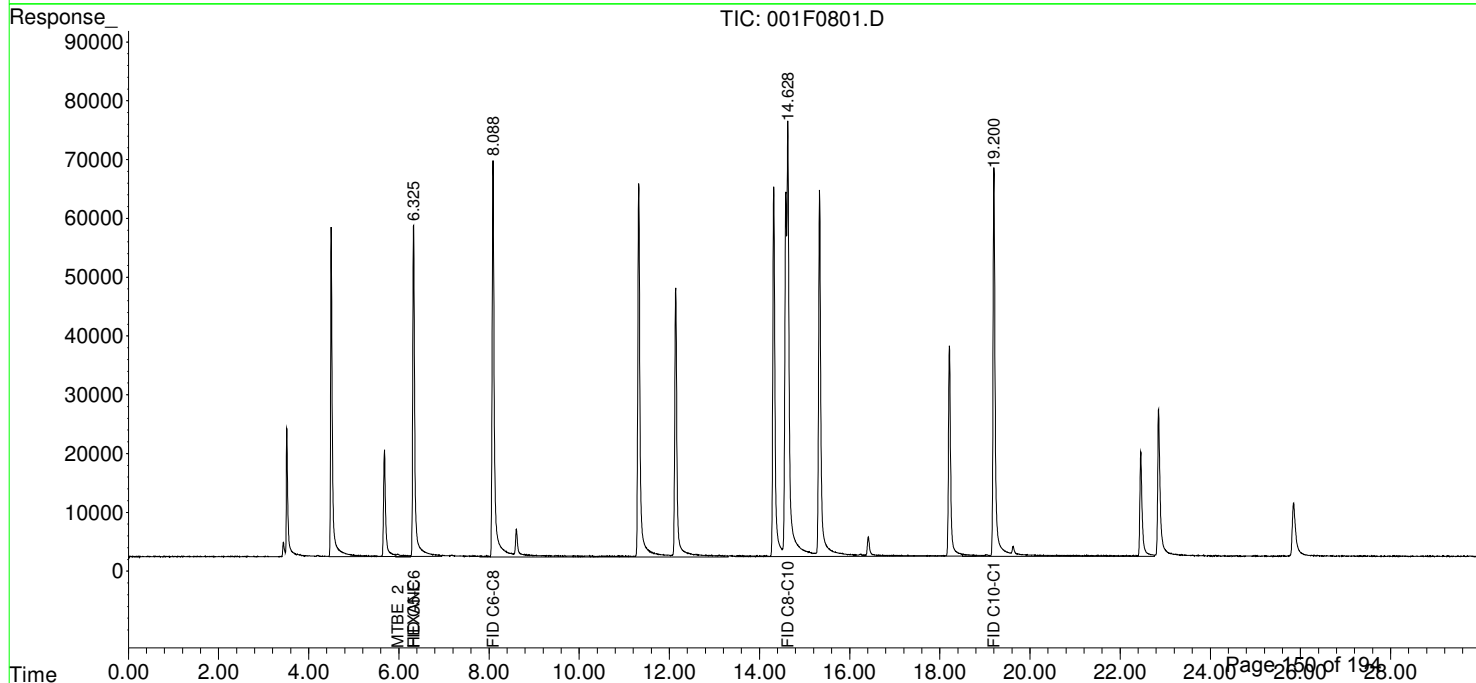
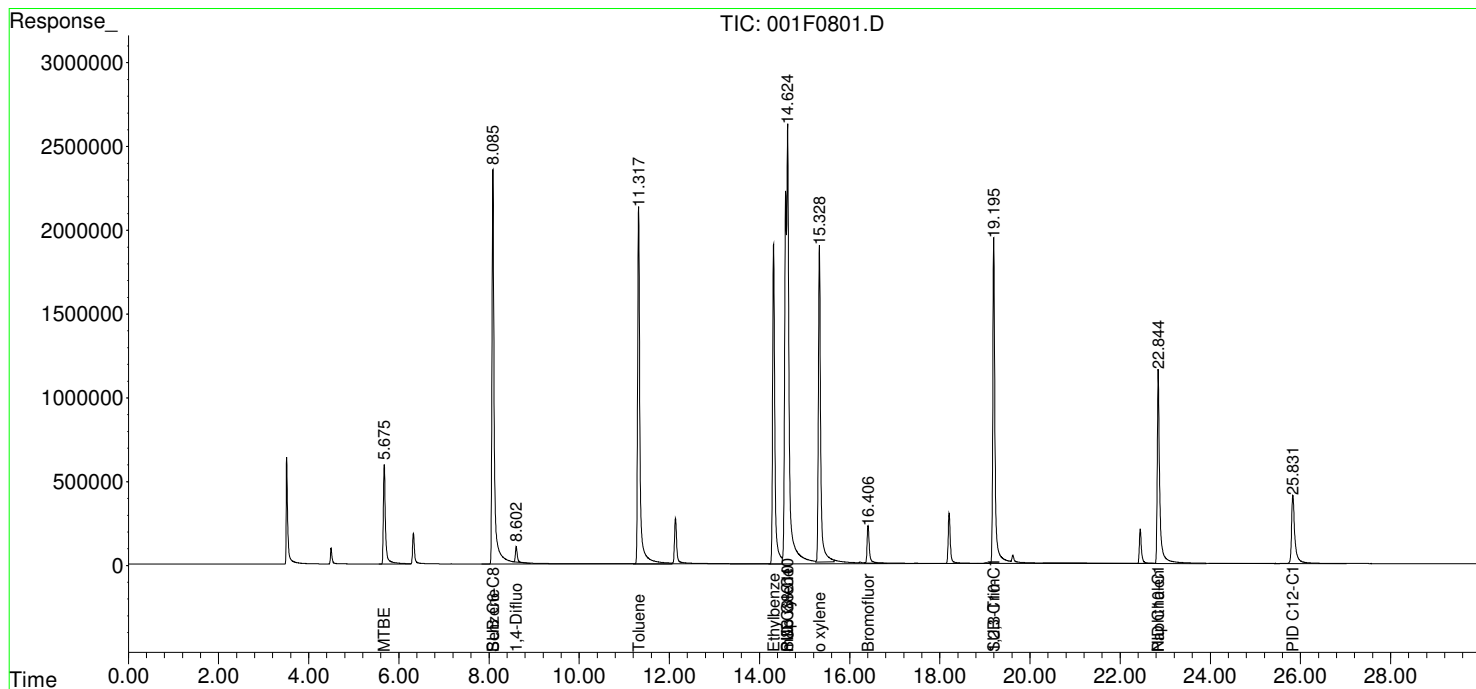
(f)=RT Delta > 1/2 Window

(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 |

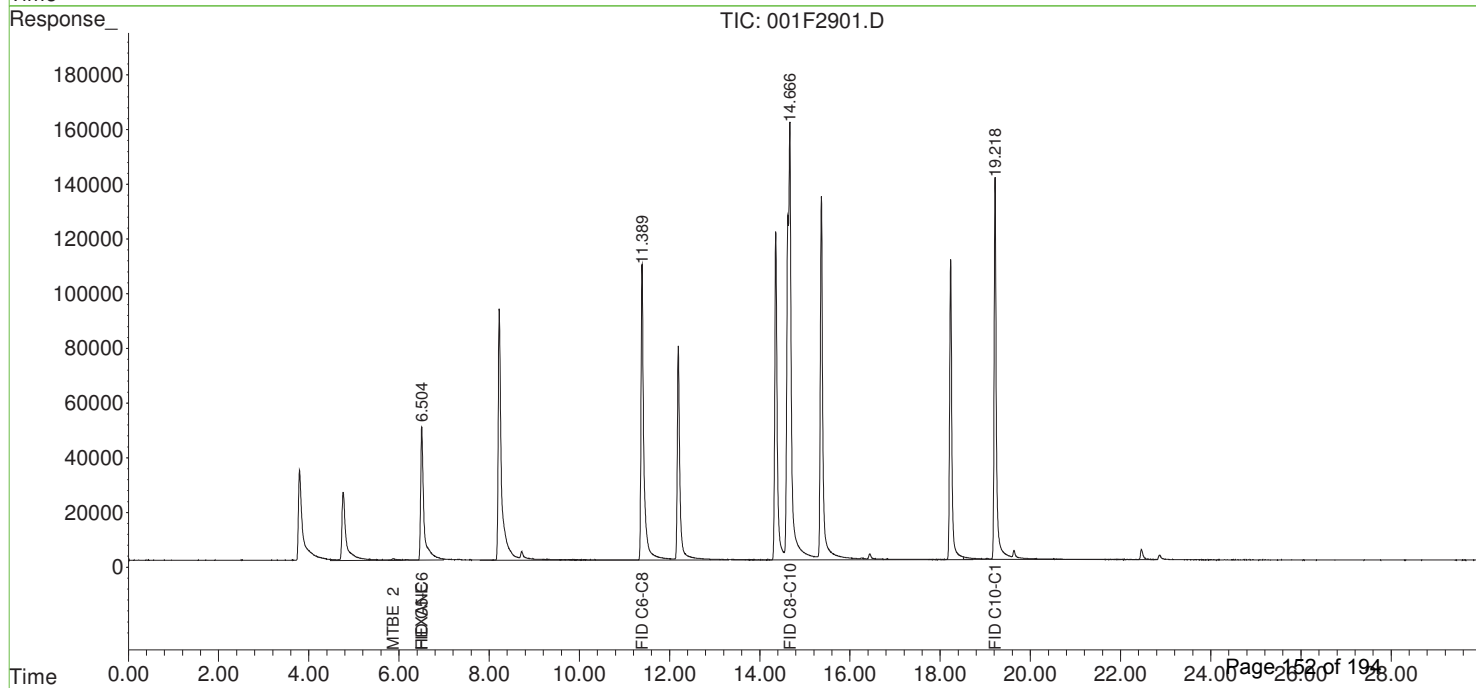
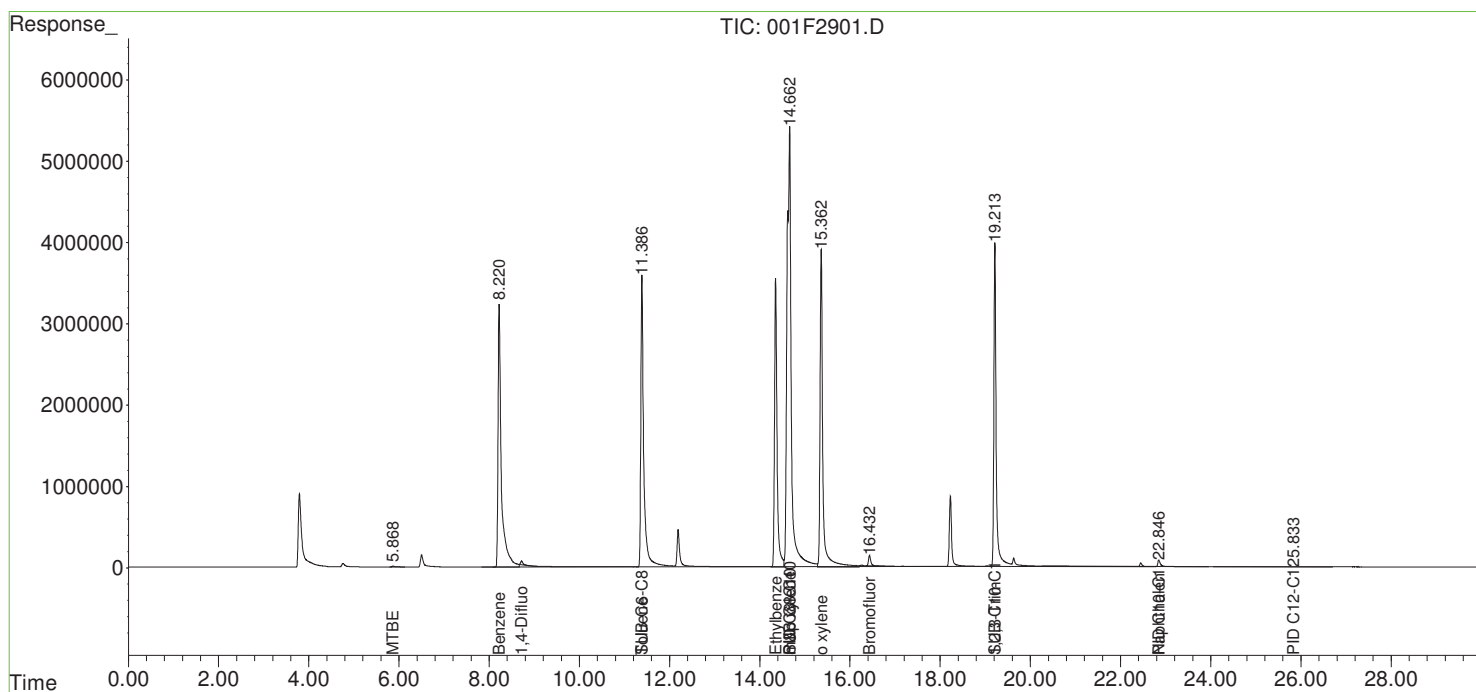
(f)=RT Delta > 1/2 Window

(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 |

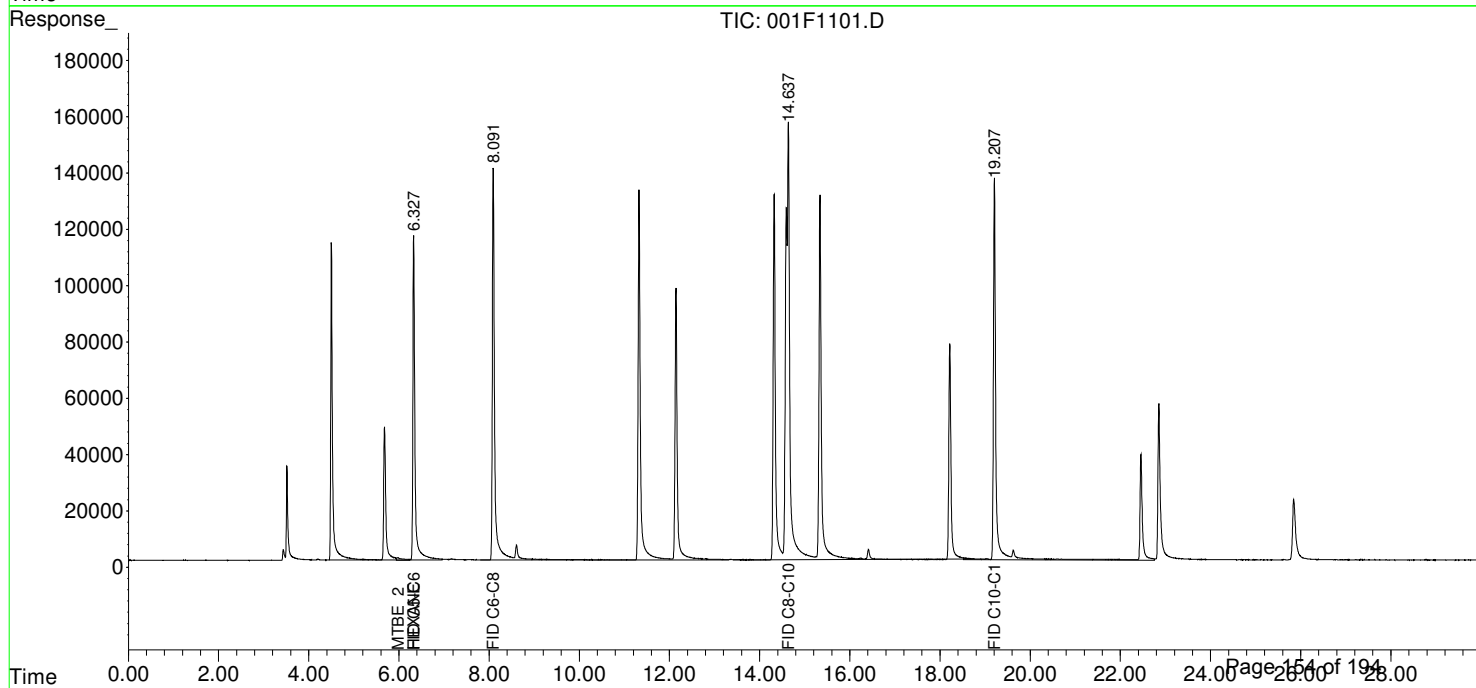
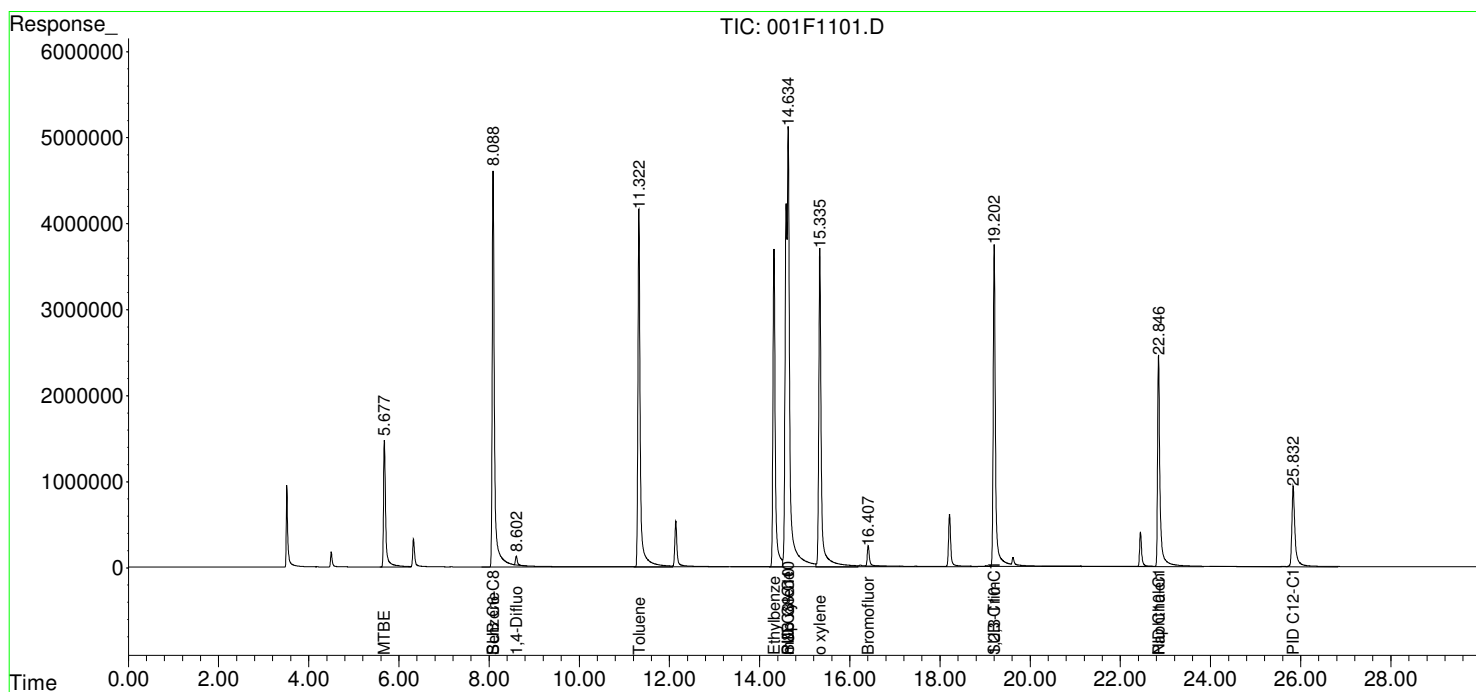
(f)=RT Delta > 1/2 Window

(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 |

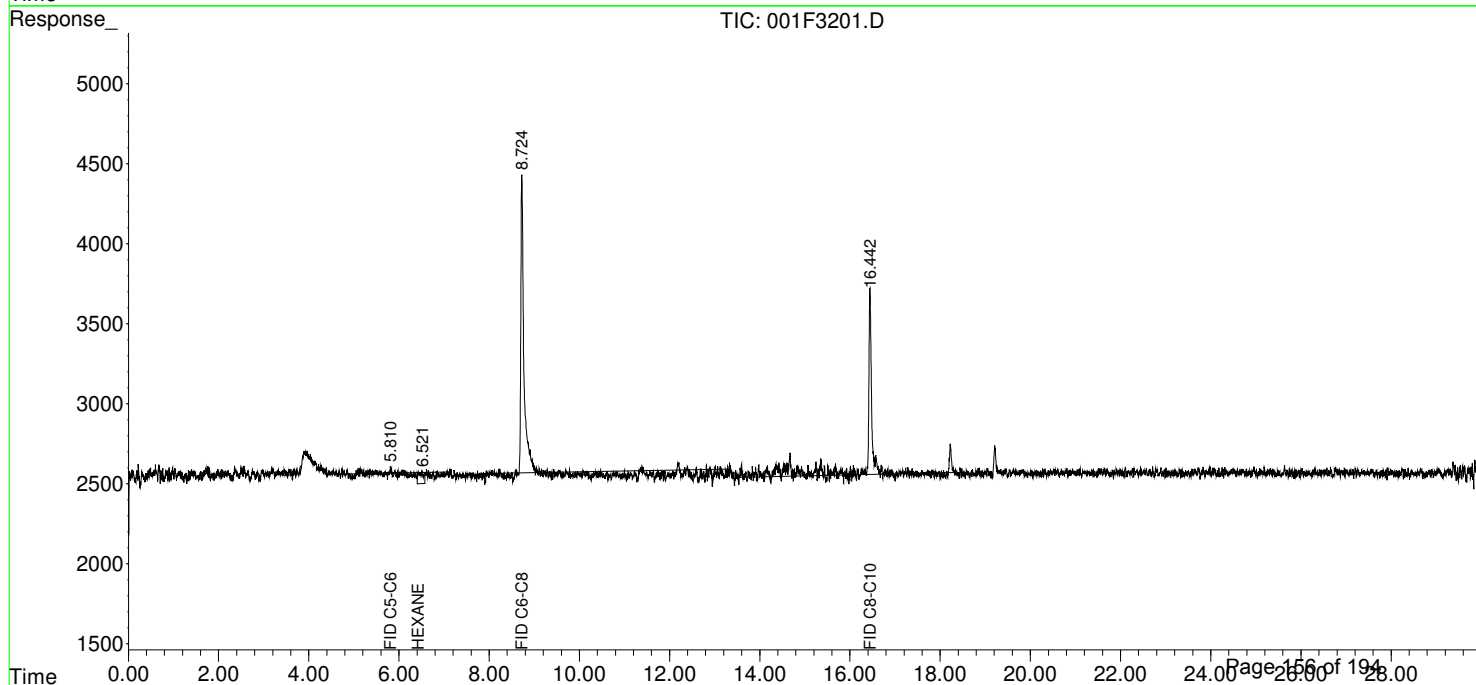
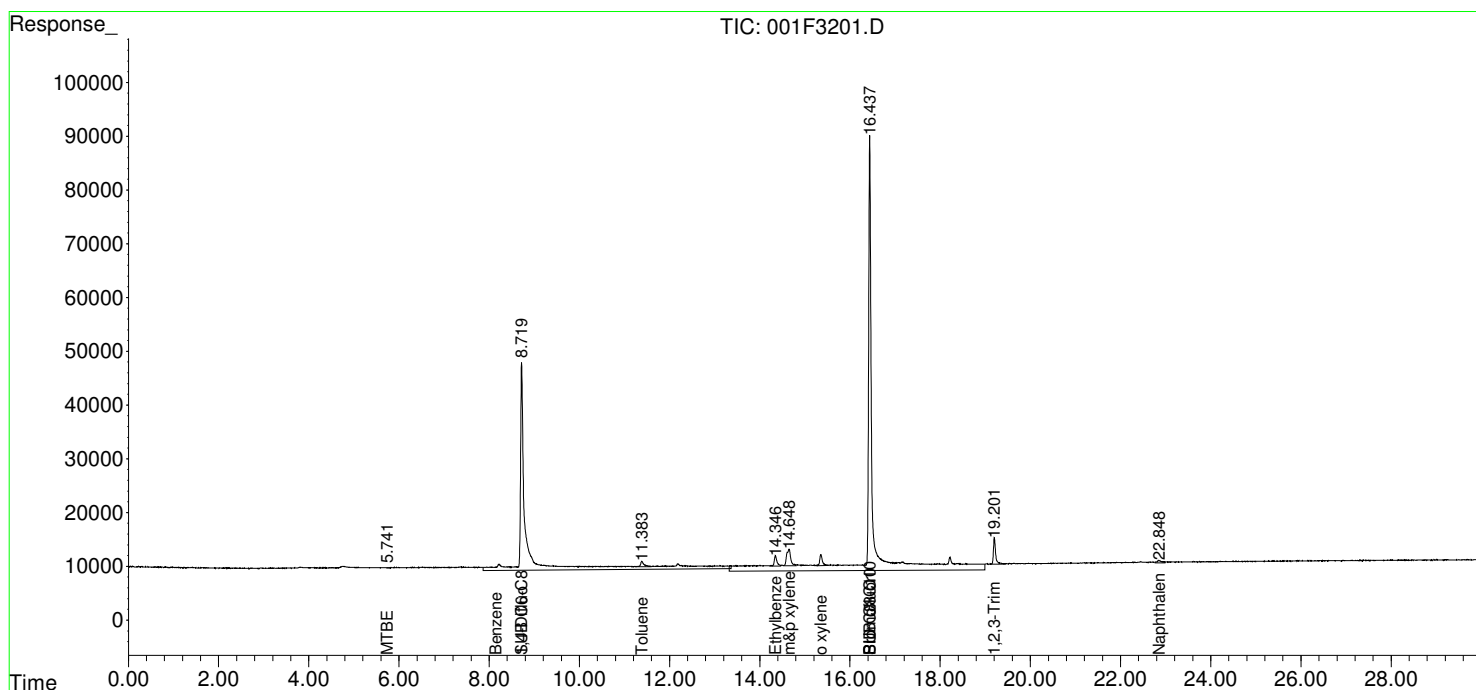
(f)=RT Delta > 1/2 Window

(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 |

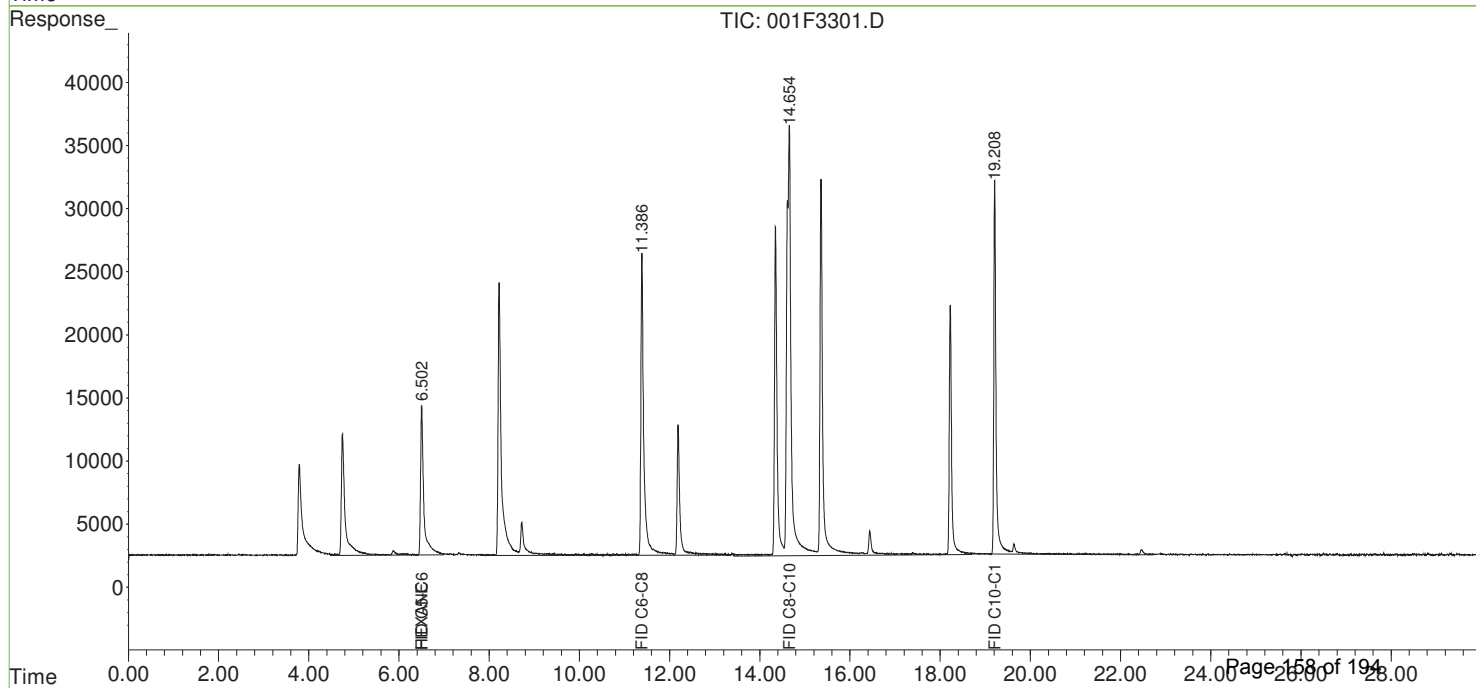
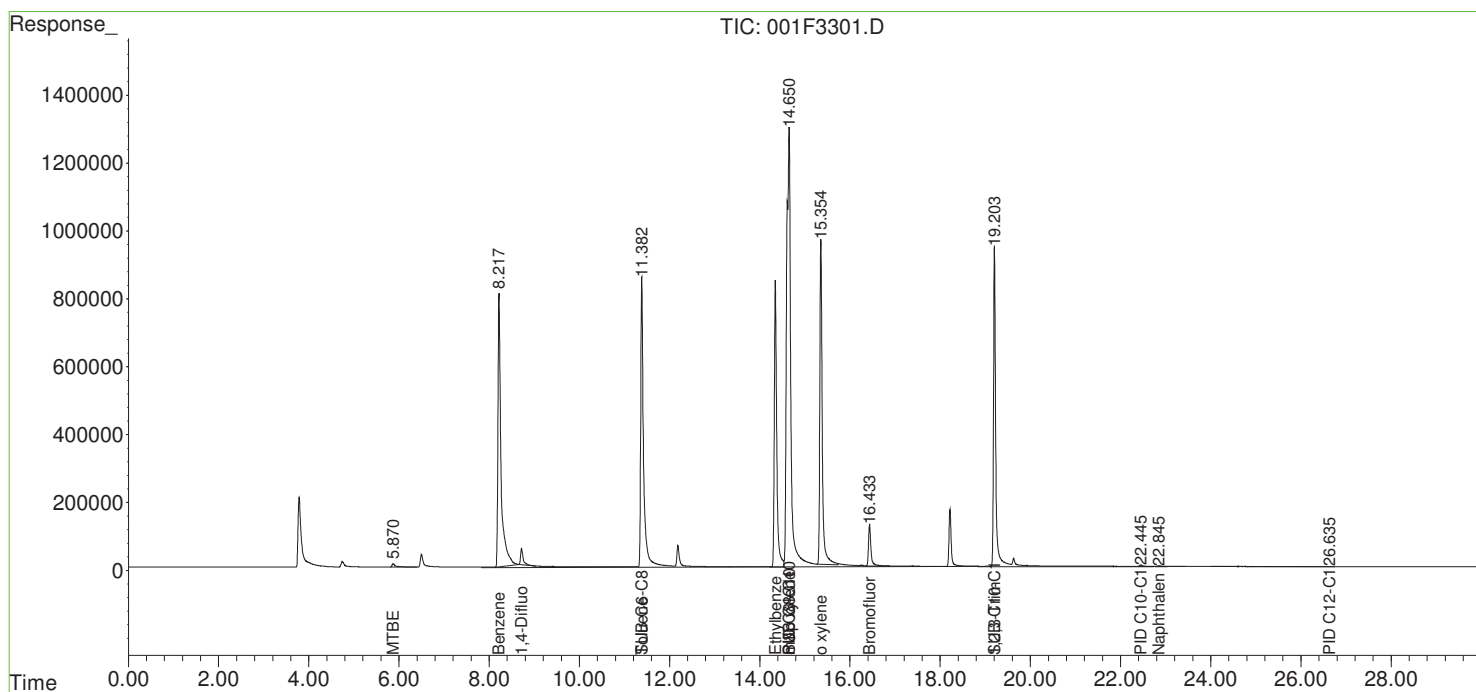
(f)=RT Delta > 1/2 Window

(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 |

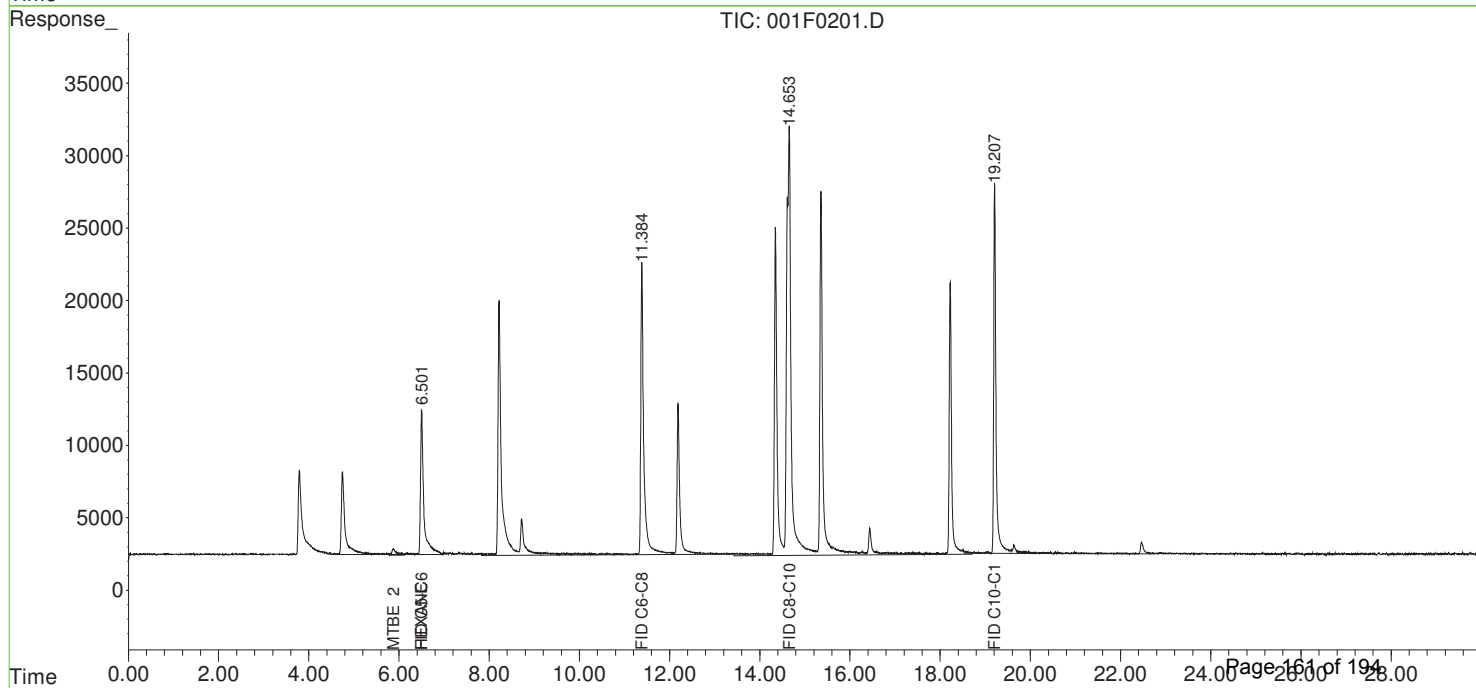
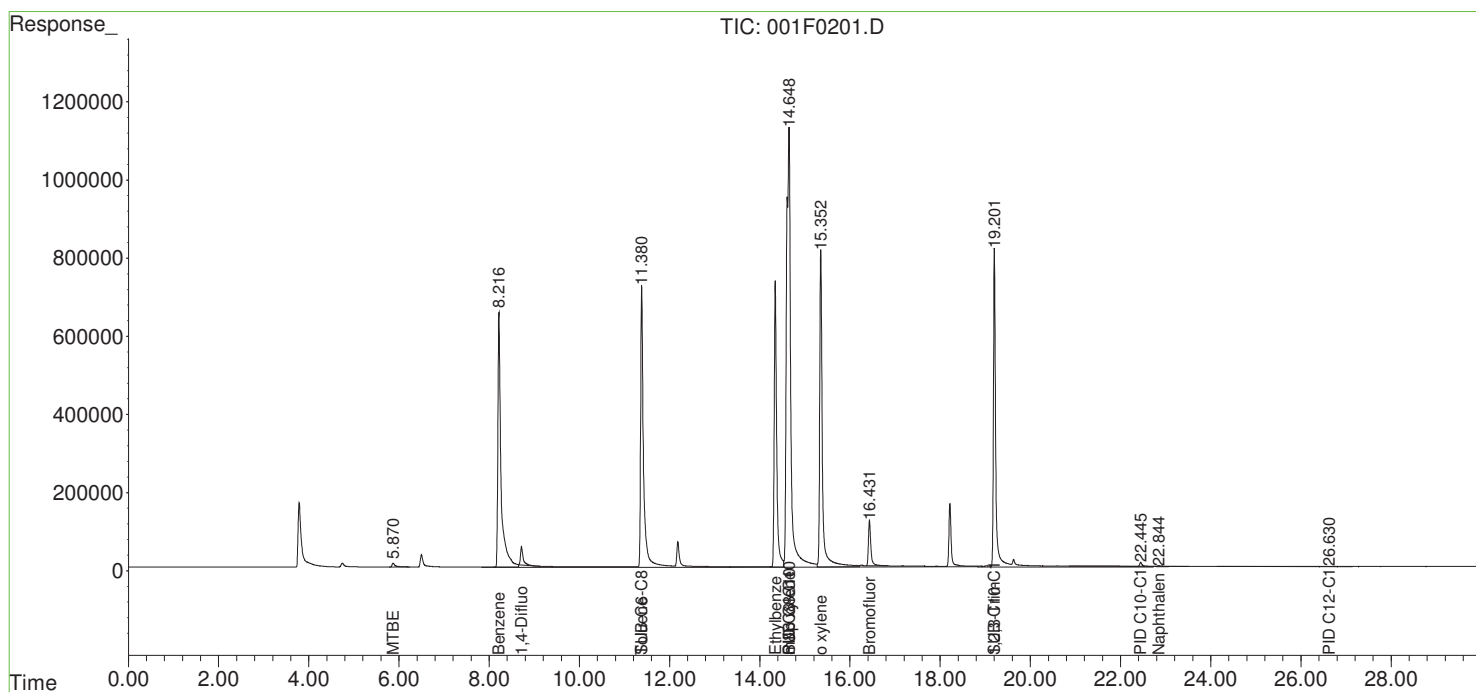
(f)=RT Delta > 1/2 Window

(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\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 | 8.727 | 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 |

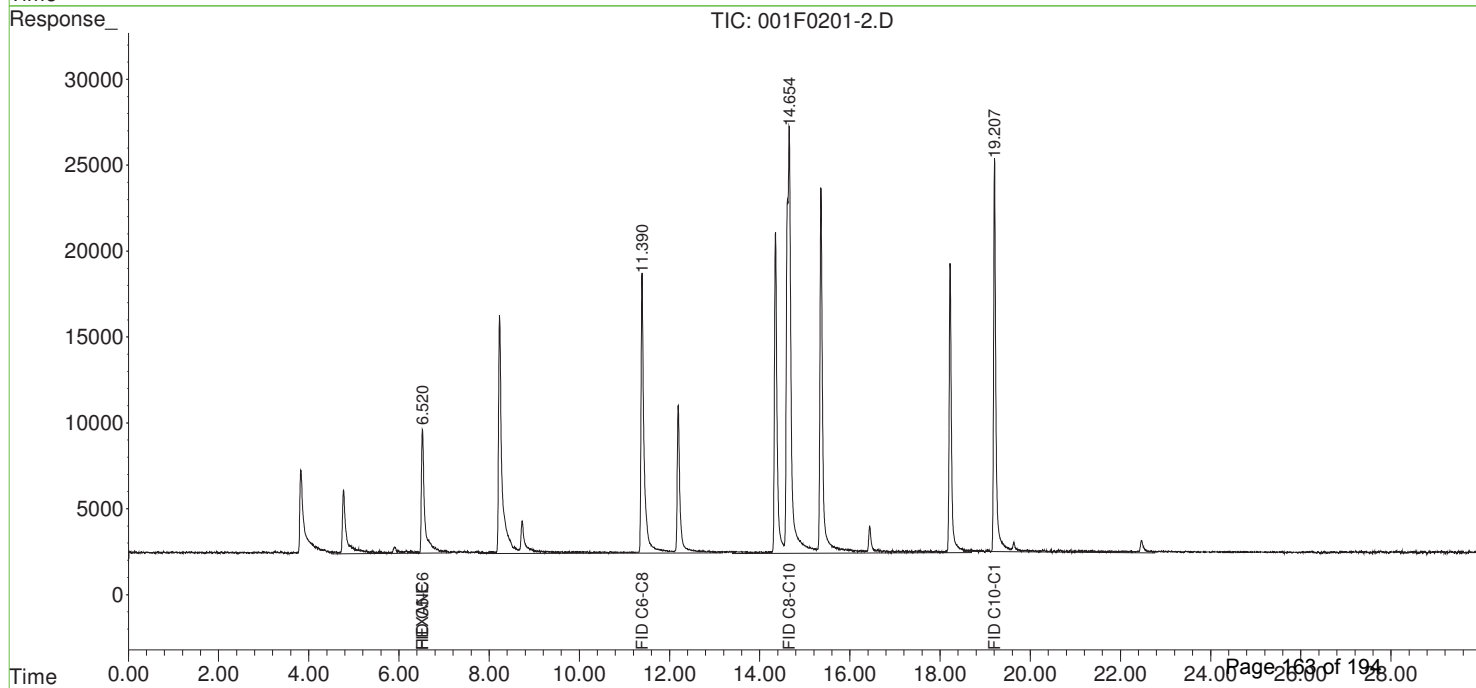
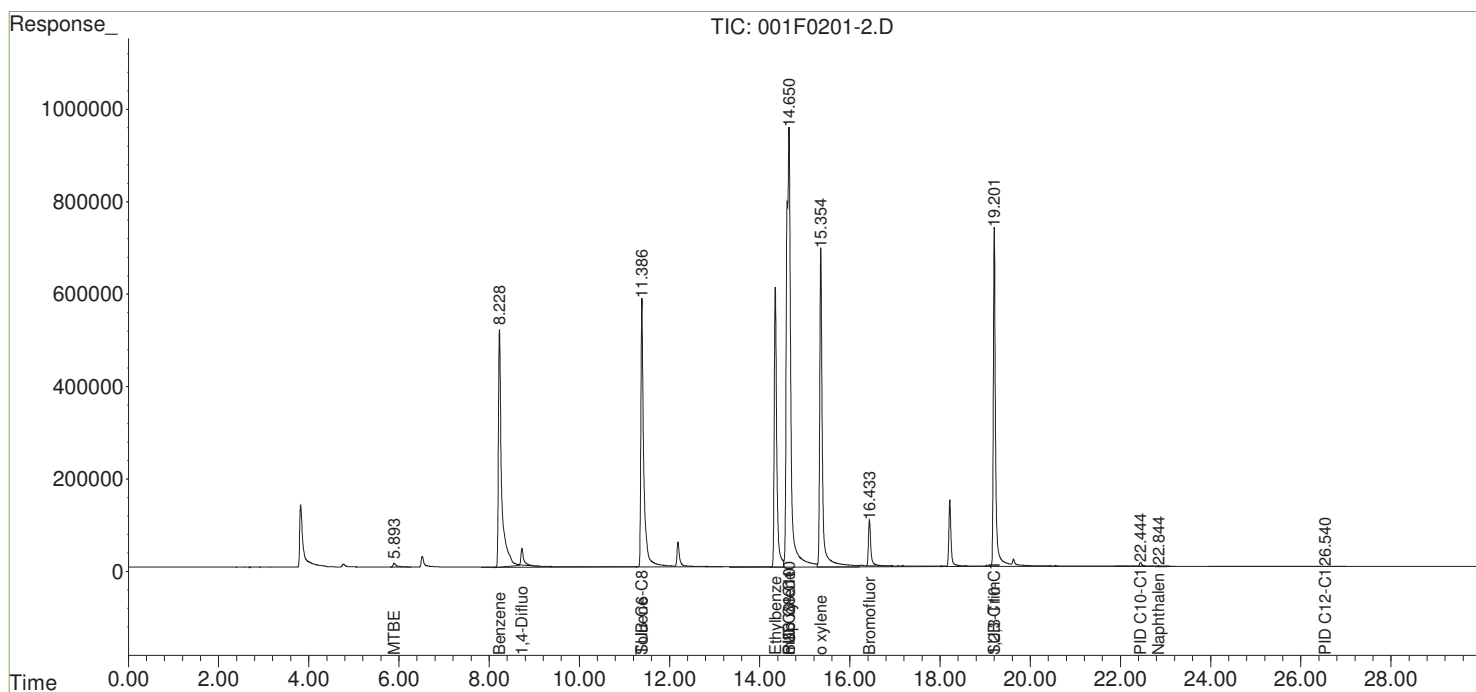
(f)=RT Delta > 1/2 Window

(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 |

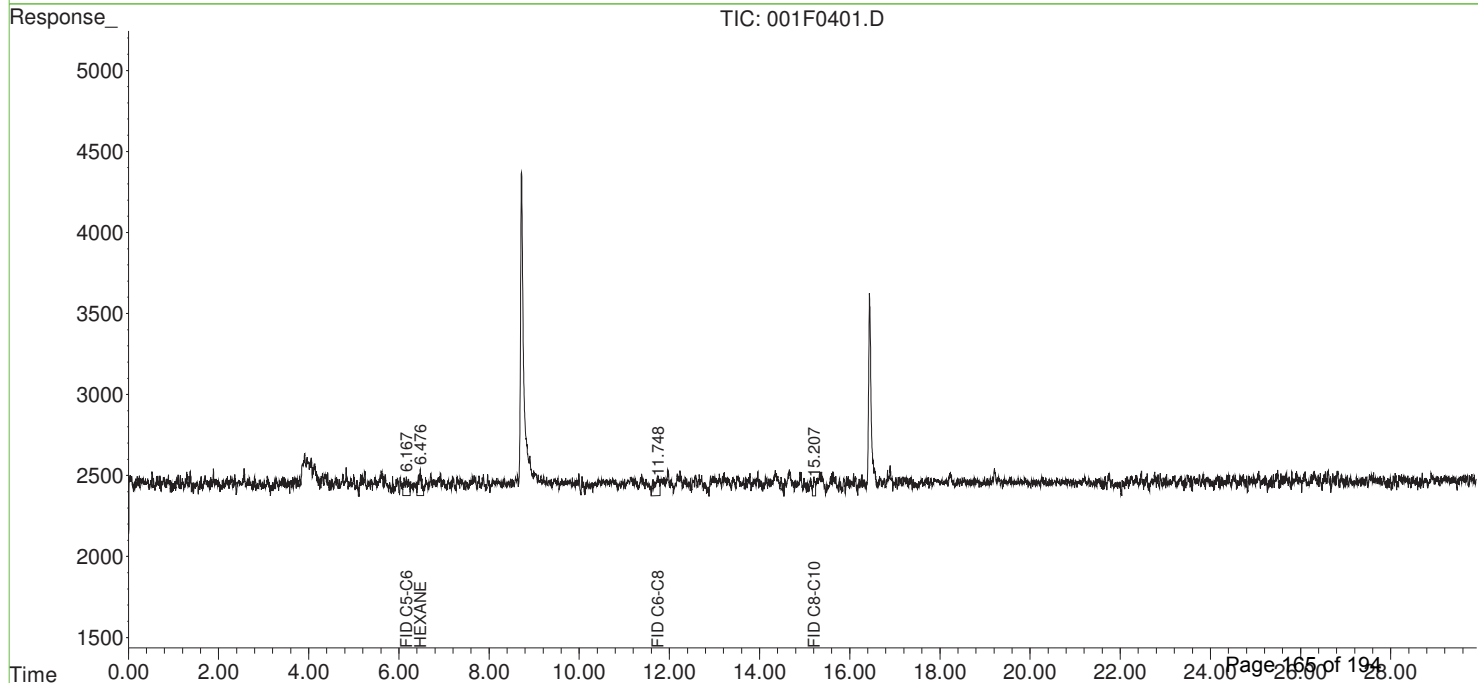
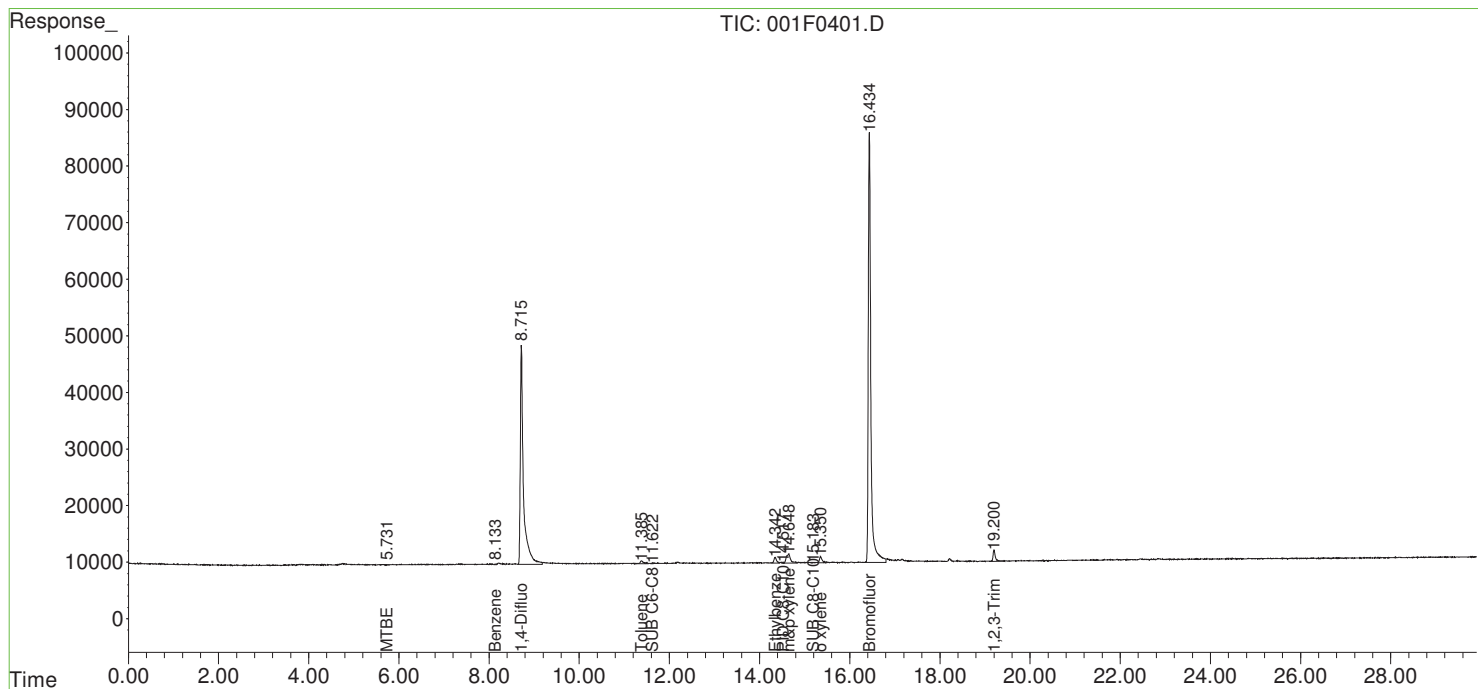
(f)=RT Delta > 1/2 Window

(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 : 001F0501.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 17:56:22
 Operator : BC
 Sample : 1604078-001A
 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 11:04:47 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 | 8.720 | 1775570 | 46.219 ug/l |
| 2) S Bromofluorobenzene | 16.436 | 3263948 | 40.298 ug/l |
| Target Compounds | | | |
| 3) t MTBE | 5.733 | 2312 | 1632.351 ug/l |
| 4) t Benzene | 8.128 | 1525 | 0.010 ug/l |
| 5) t Toluene | 11.387 | 27004 | 0.187 ug/l |
| 6) t Ethylbenzene | 14.345 | 34756 | 0.283 ug/l |
| 7) t m&p xylenes | 14.649 | 70806 | 0.445 ug/l |
| 8) t o xylene | 15.354 | 34958 | 0.233 ug/l |
| 9) t 1,2,3-Trimethylbenzene | 19.201 | 45800 | 0.375 ug/l |
| 10) t Naphthalene | 22.853 | 12514 | BelowCal ug/l |
| 11) T PID C8-C10 | 14.649 | 70806 | 49.787 ug/l |
| 12) T PID C10-C12 | 23.763 | 5772 | BelowCal ug/l |
| 13) T PID C12-C13 | 26.710 | 5652 | BelowCal ug/l |
| 14) T SUB C6-C8 | 11.599 | 1697 | 20.352 ug/l |
| 15) T SUB C8-C10 | 15.198 | 2526 | 31.994 ug/l |
| 16) T SUB C10-C12 | 19.967 | 4209 | BelowCal ug/l |
| 18) Signal 2 #2 | 0.000 | 0 | N.D. |
| 19) t MTBE 2 | 5.866 | 4381 | N.D. ug/l |
| 20) t HEXANE | 6.521 | 10113 | 69.817 ug/l |
| 21) T FID C5-C6 | 6.169 | 4538 | 15.038 ug/l |
| 22) T FID C6-C8 | 11.657 | 3805 | 20.883 ug/l |
| 23) T FID C8-C10 | 15.286 | 12439 | 53.230 ug/l |
| 24) T FID C10-C12 | 20.063 | 42768 | BelowCal ug/l |

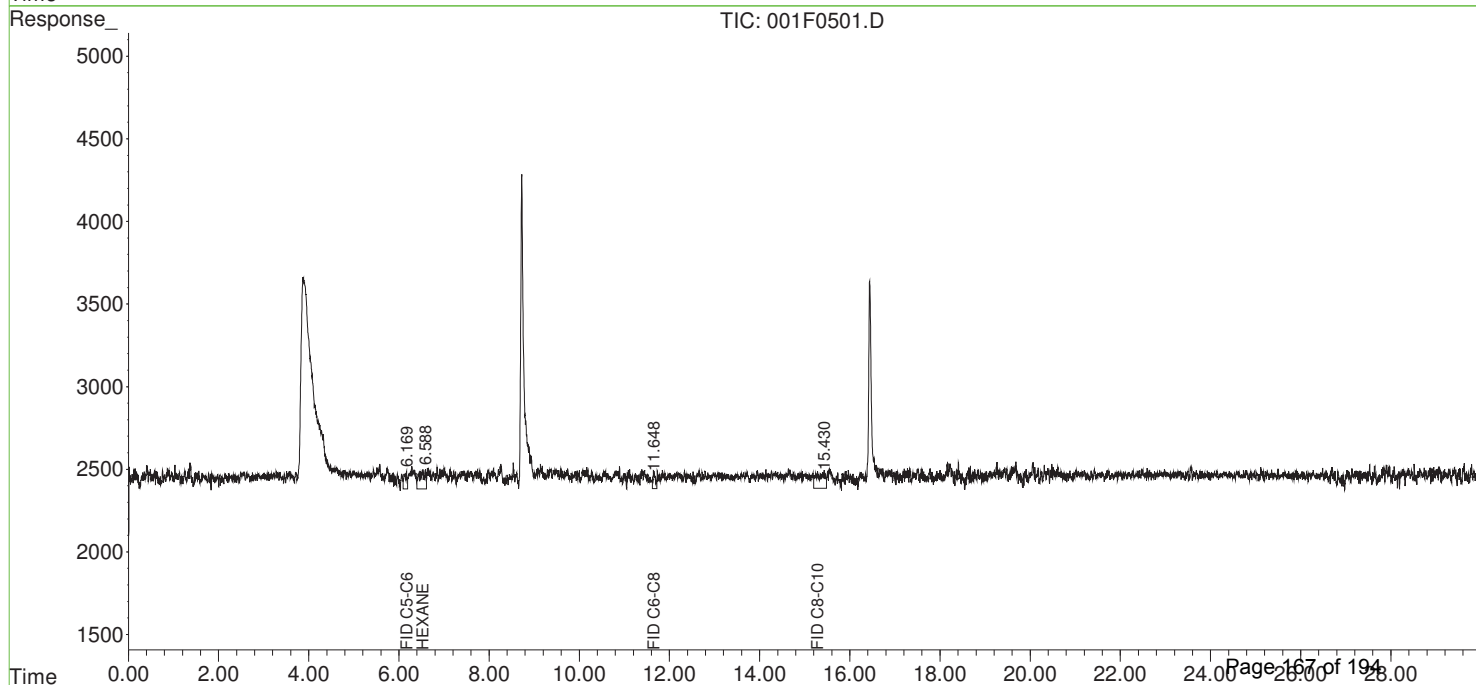
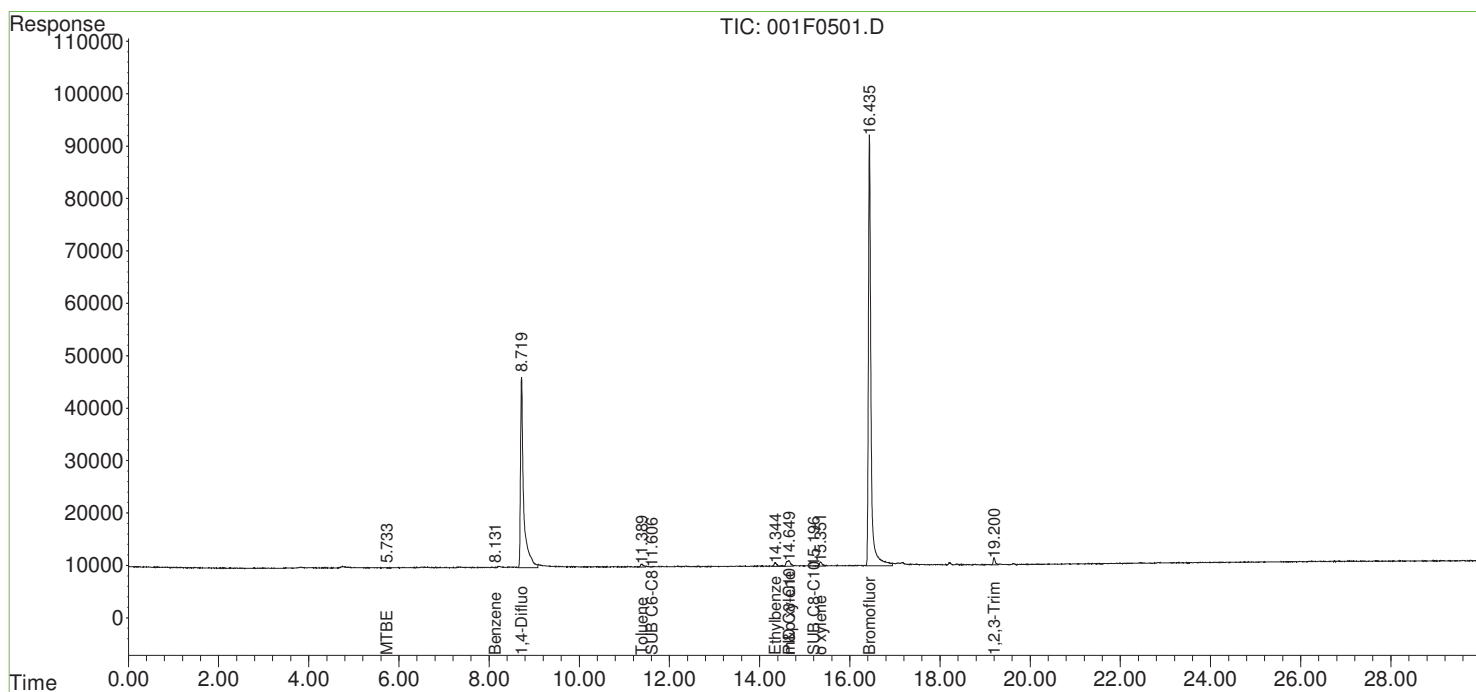
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\GC-2\DATA\041216\2016-04-12\
 Data File : 001F0501.D
 Signal(s) : Signal #1: FID1B.CH Signal #2: FID2A.CH
 Acq On : 12-Apr-2016, 17:56:22
 Operator : BC
 Sample : 1604078-001A
 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 11:04:47 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 |

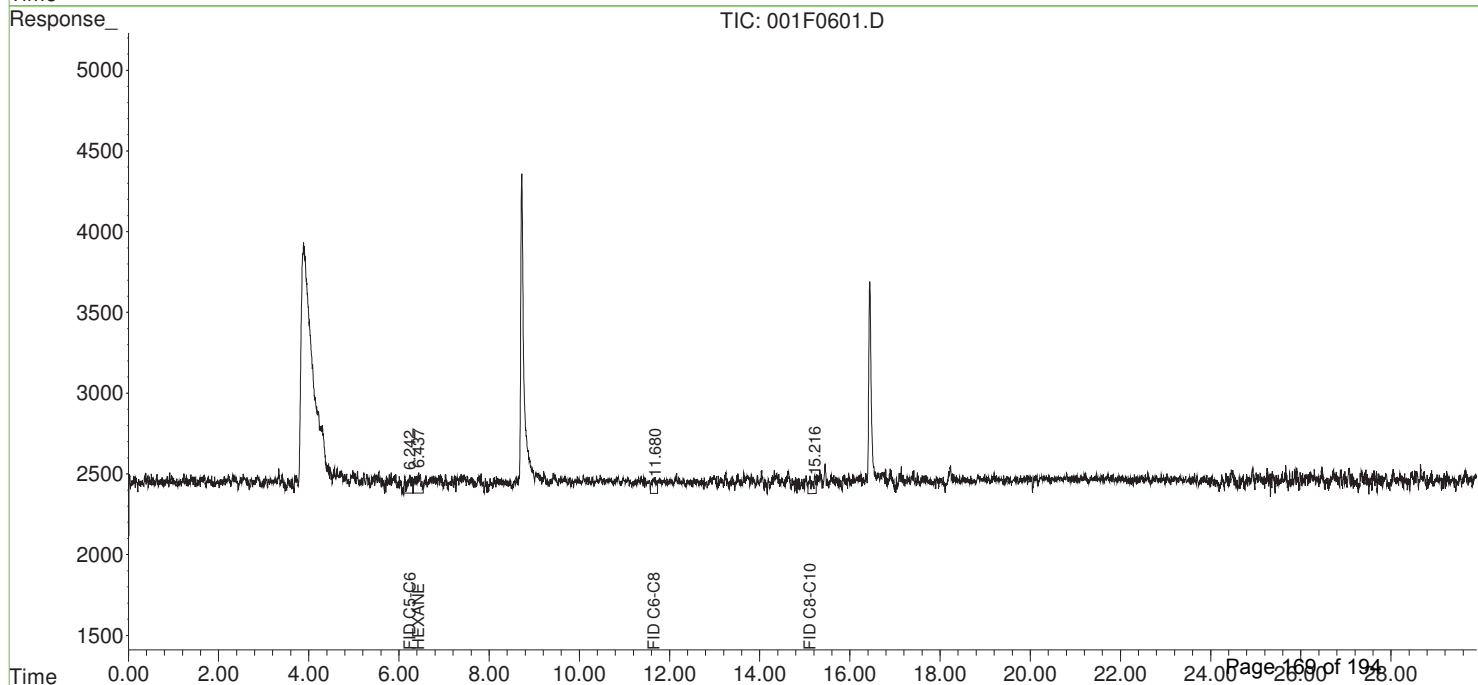
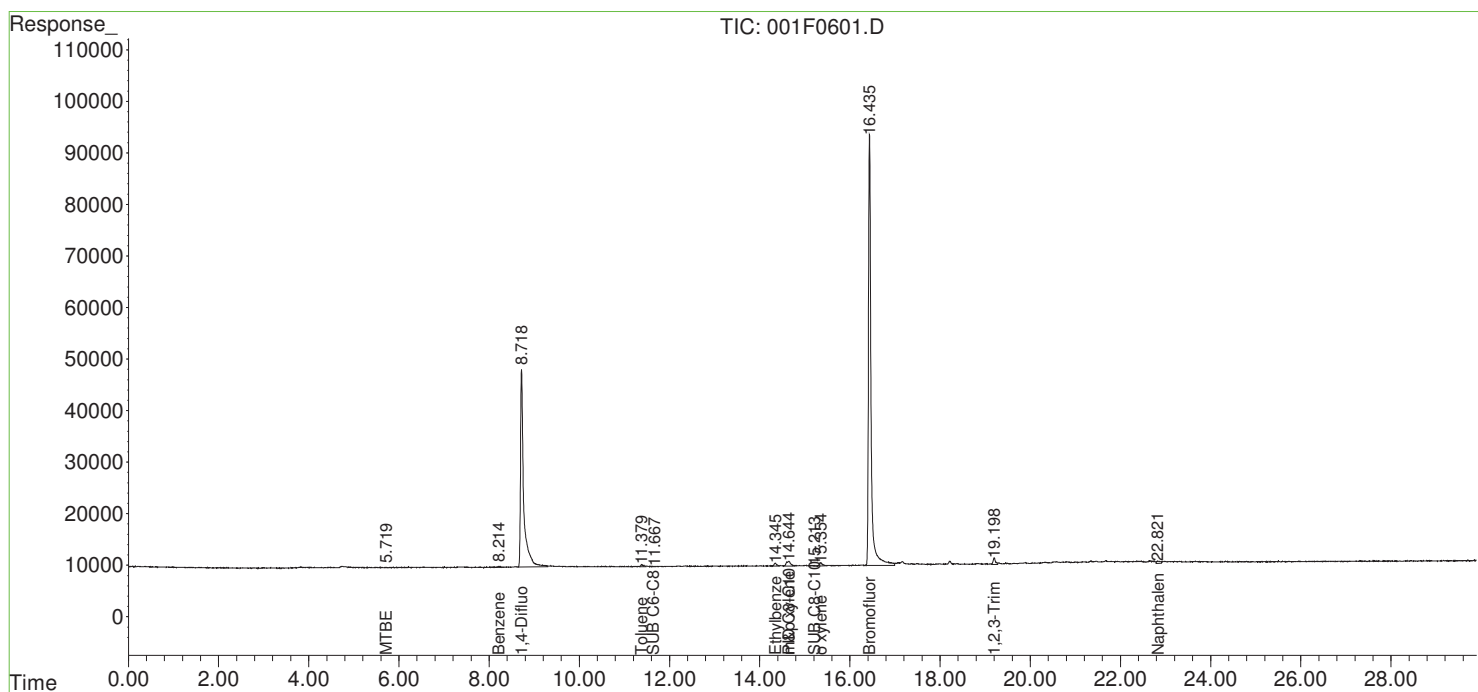
(f)=RT Delta > 1/2 Window

(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 |

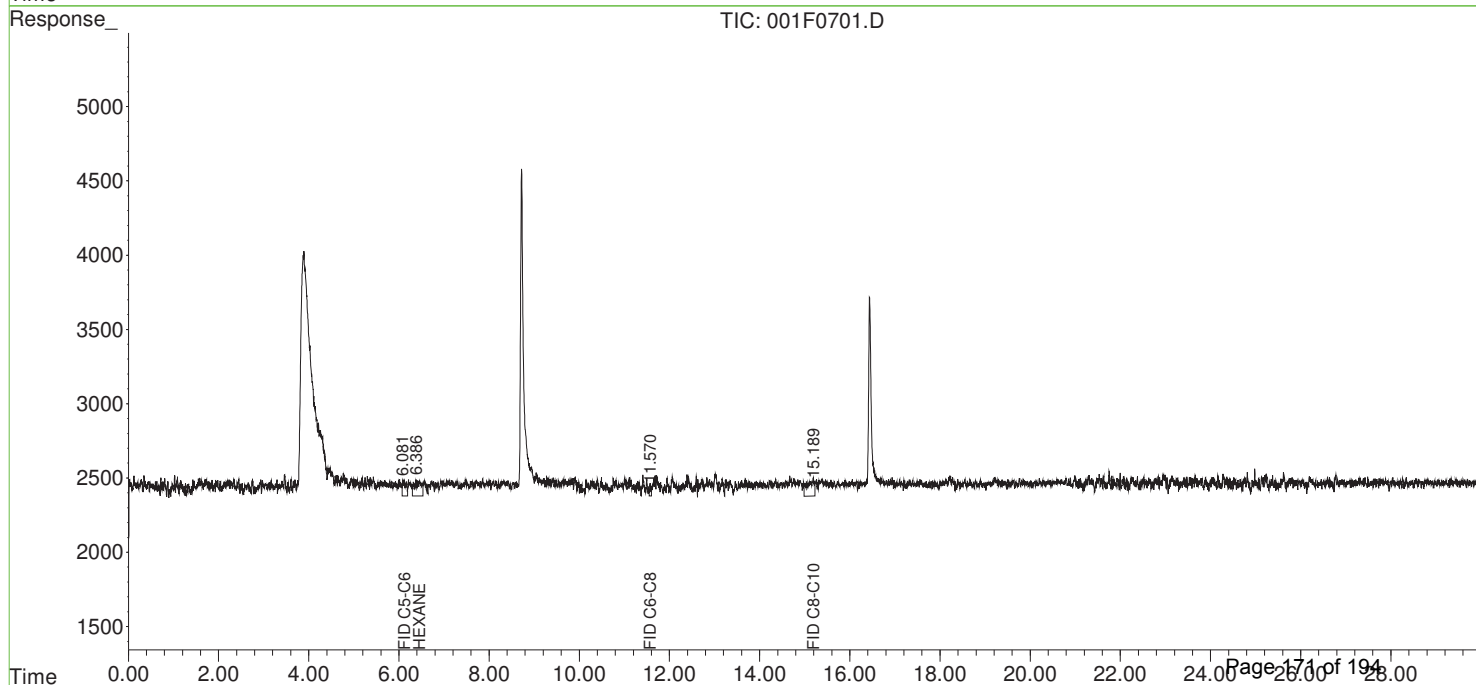
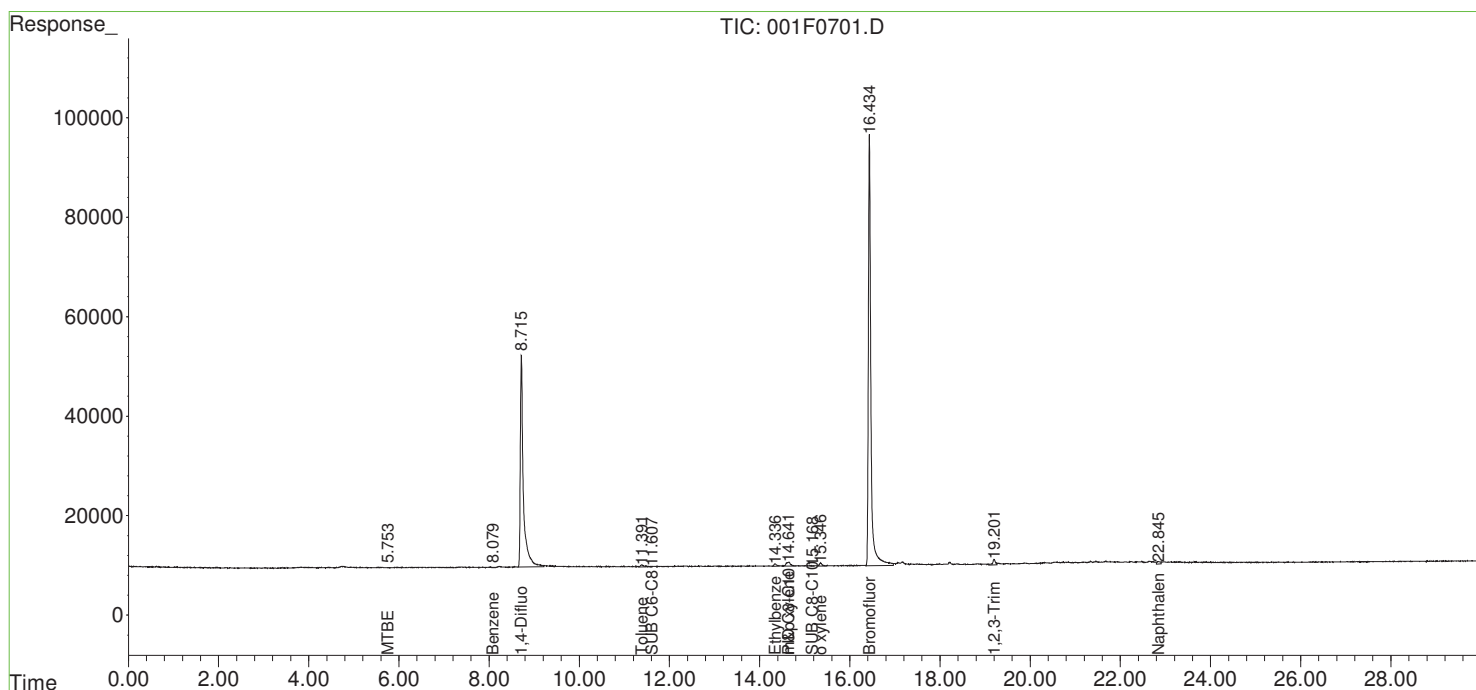
(f)=RT Delta > 1/2 Window

(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 : 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 :

| 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 |

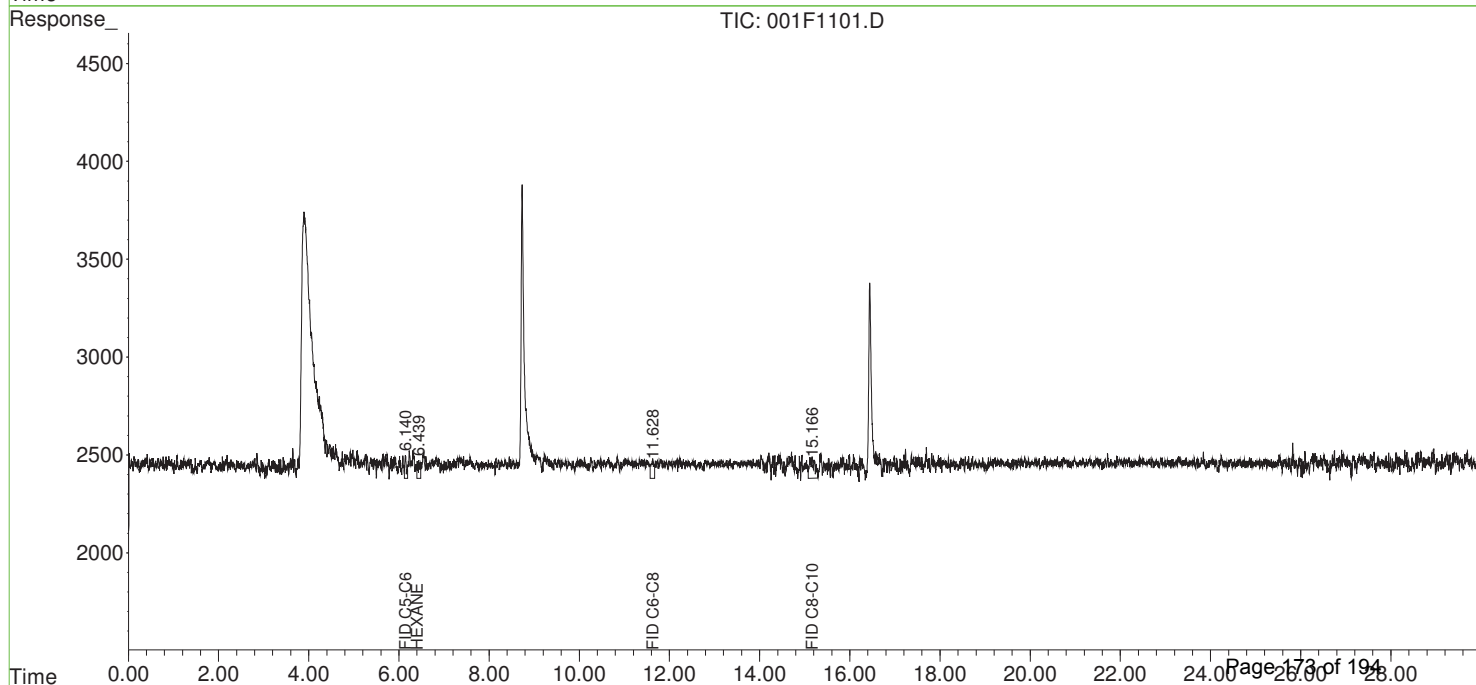
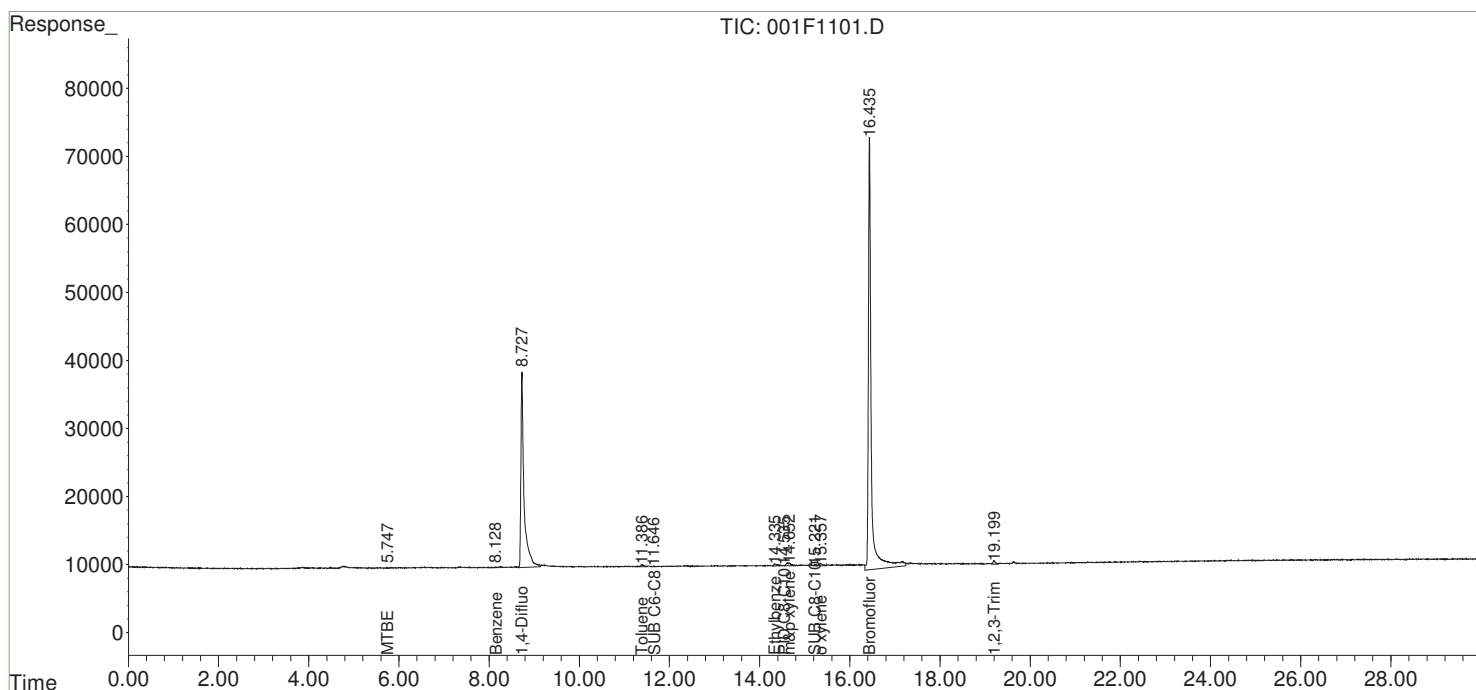
(f)=RT Delta > 1/2 Window

(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\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 | 8.721 | 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 |

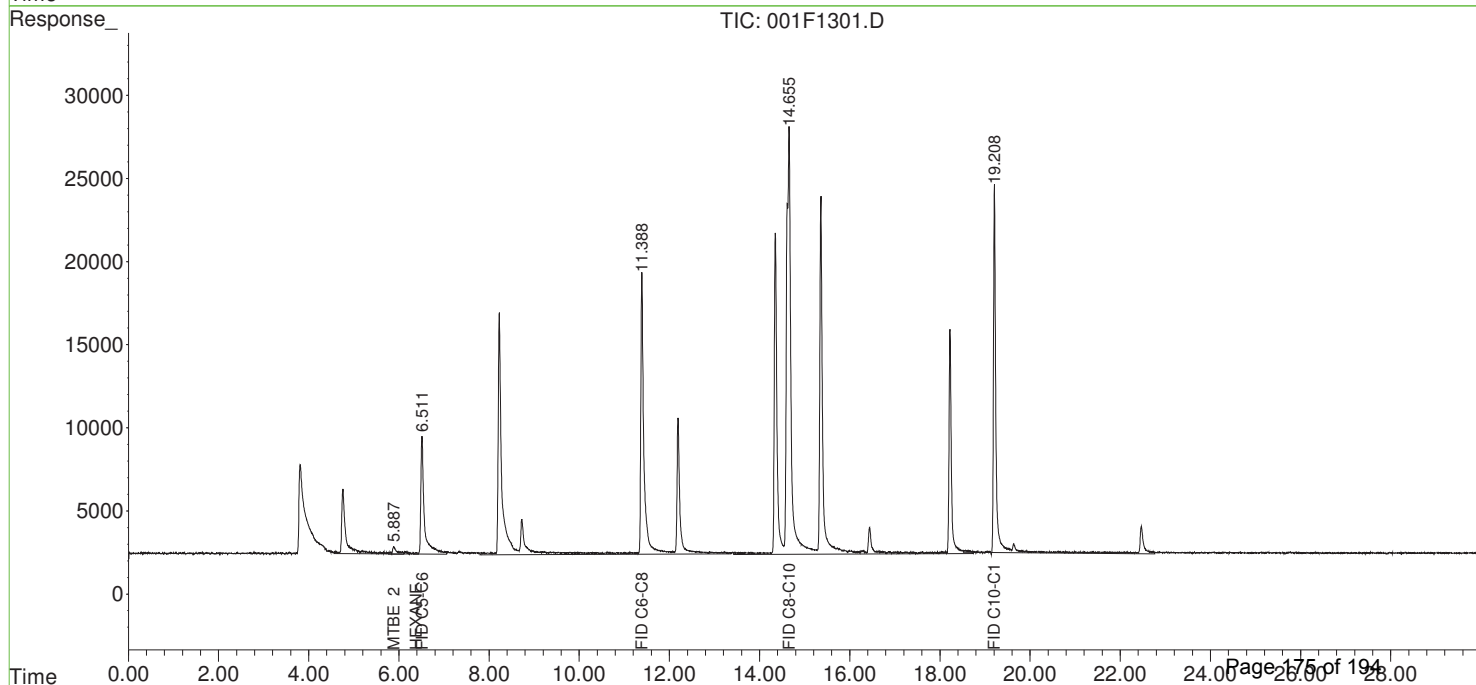
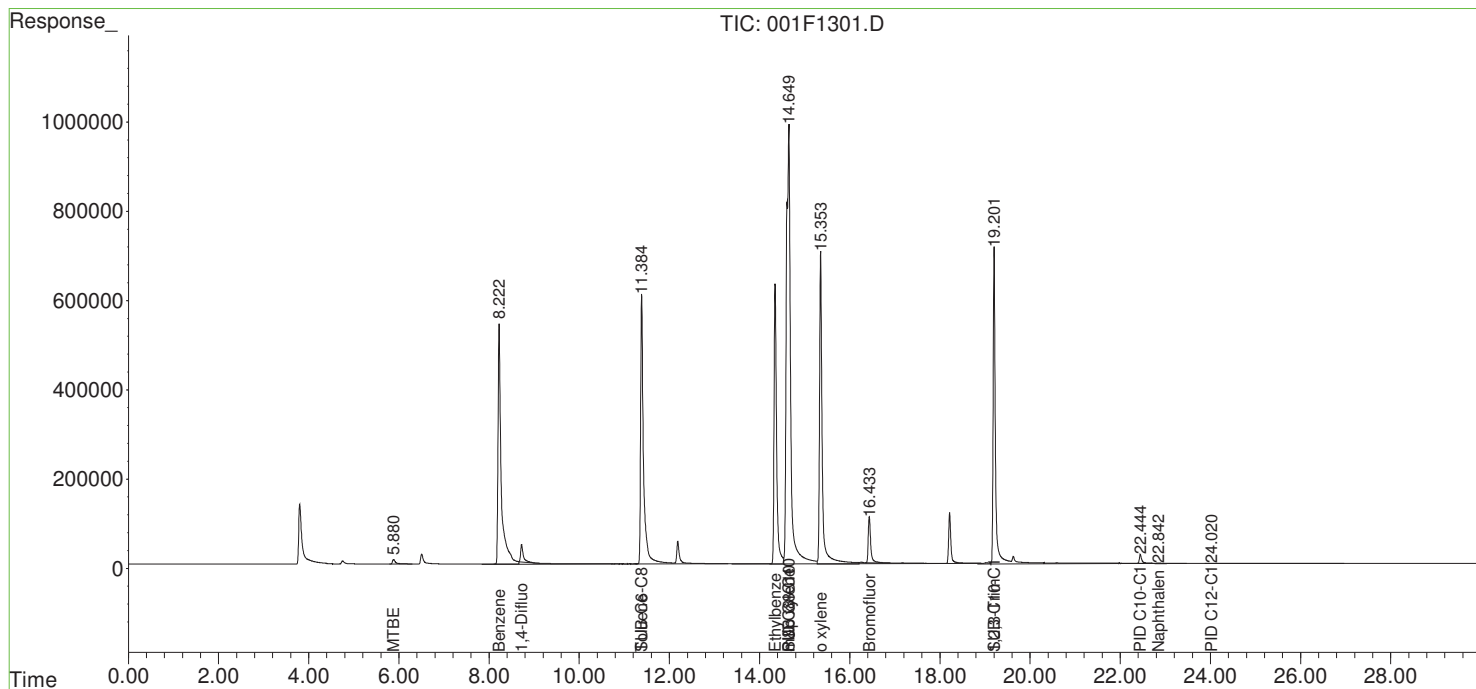
(f)=RT Delta > 1/2 Window

(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 |

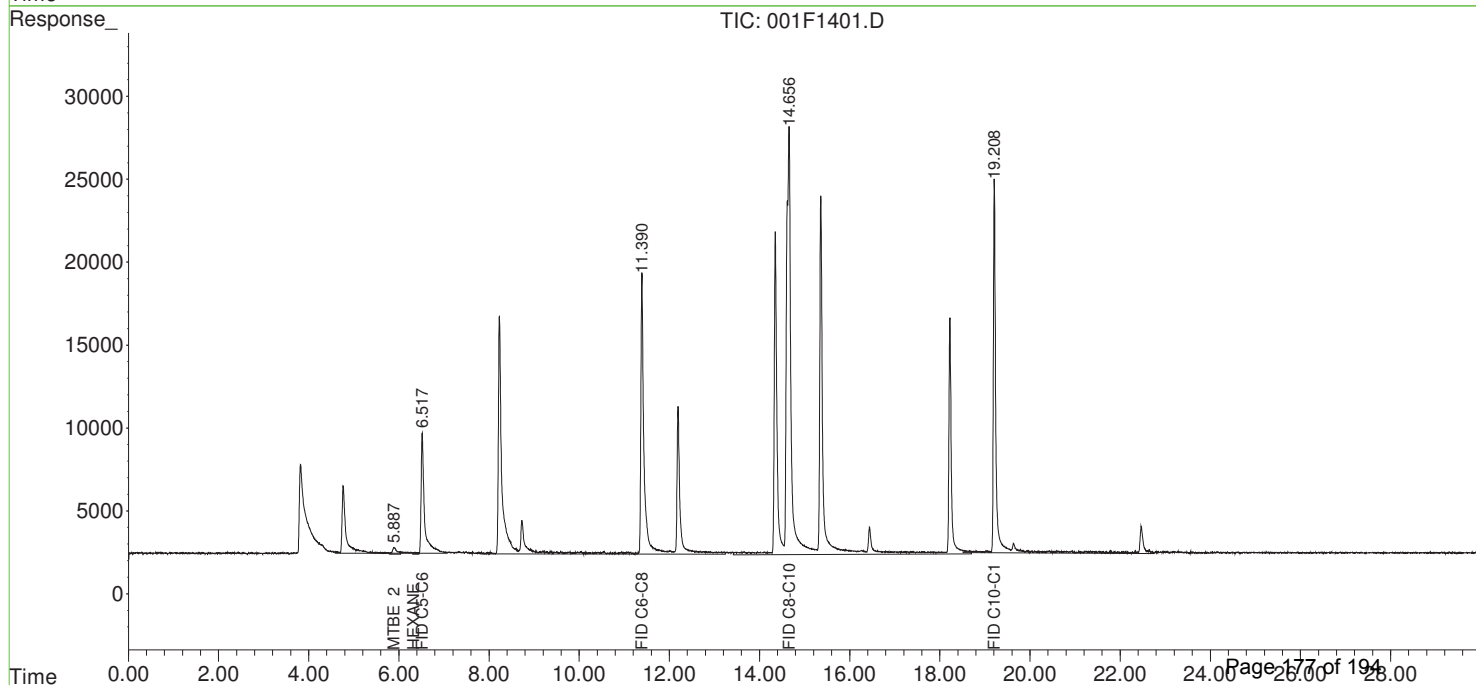
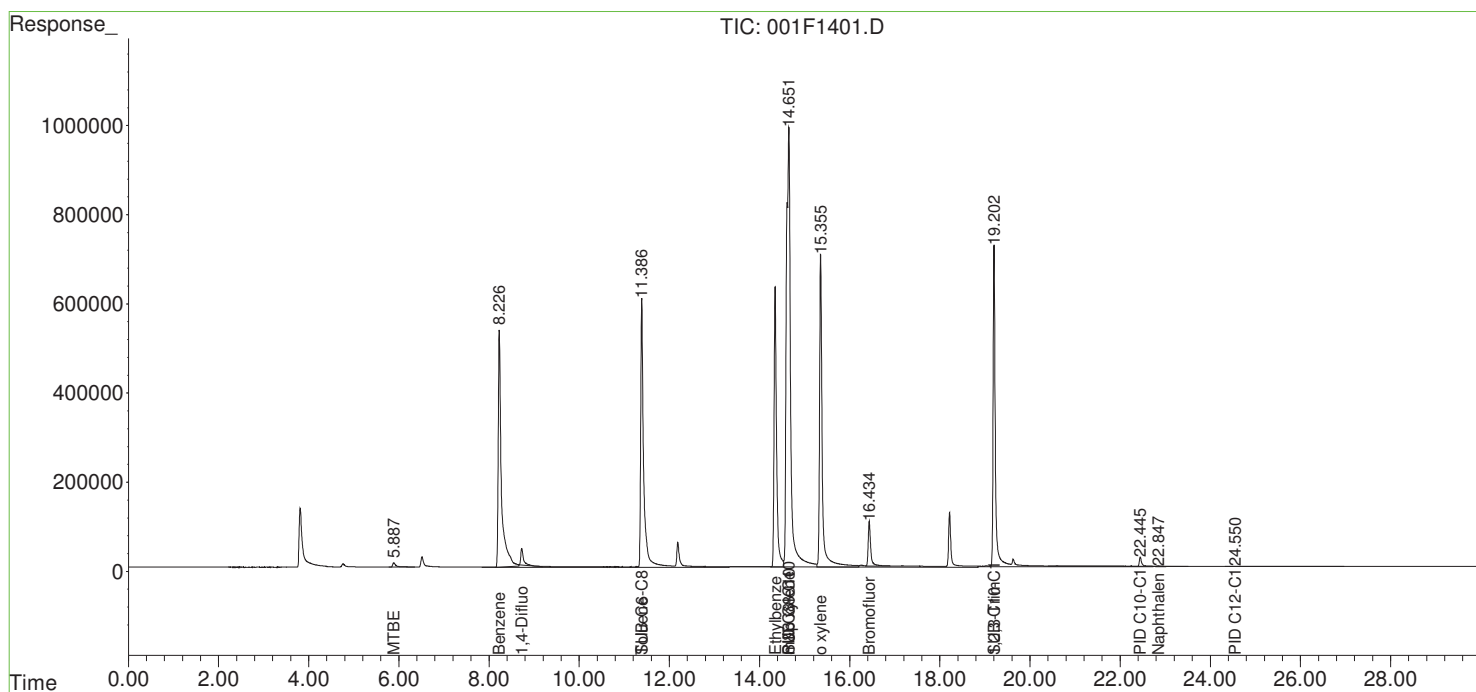
(f)=RT Delta > 1/2 Window

(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 |

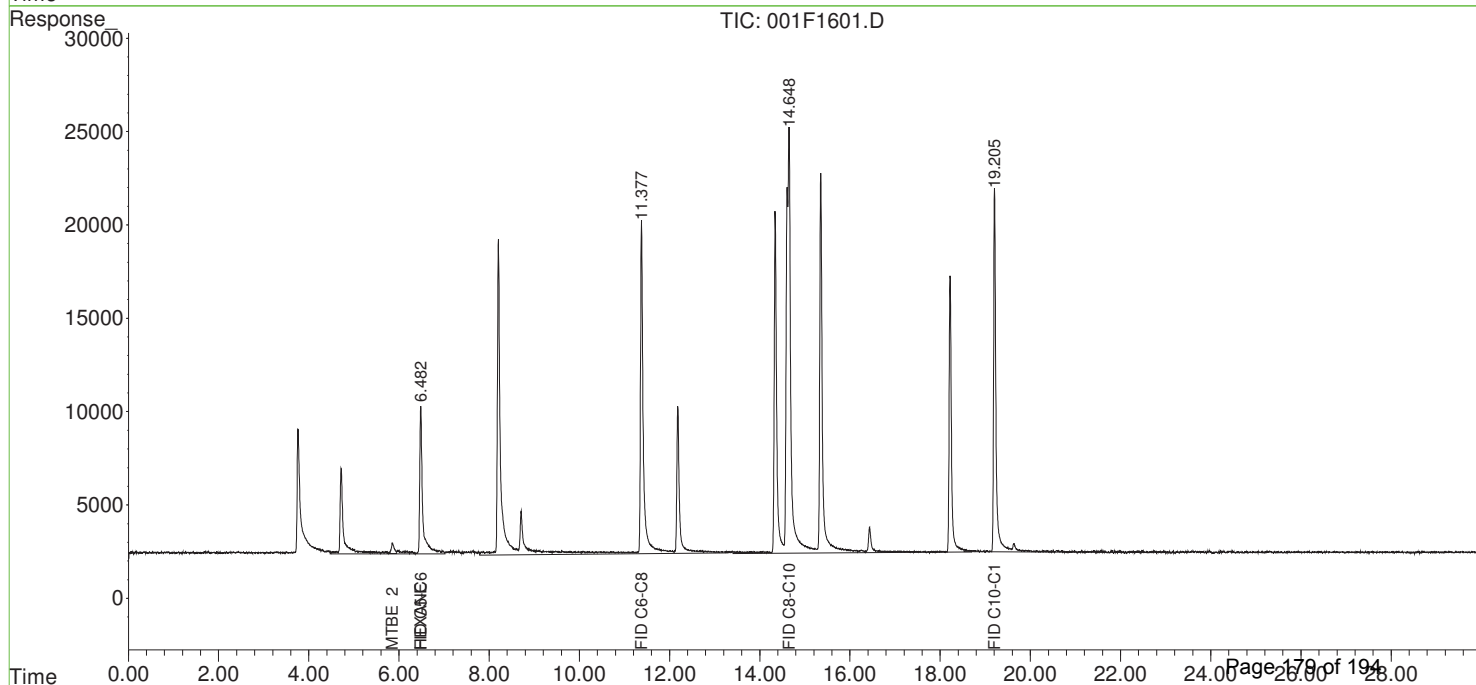
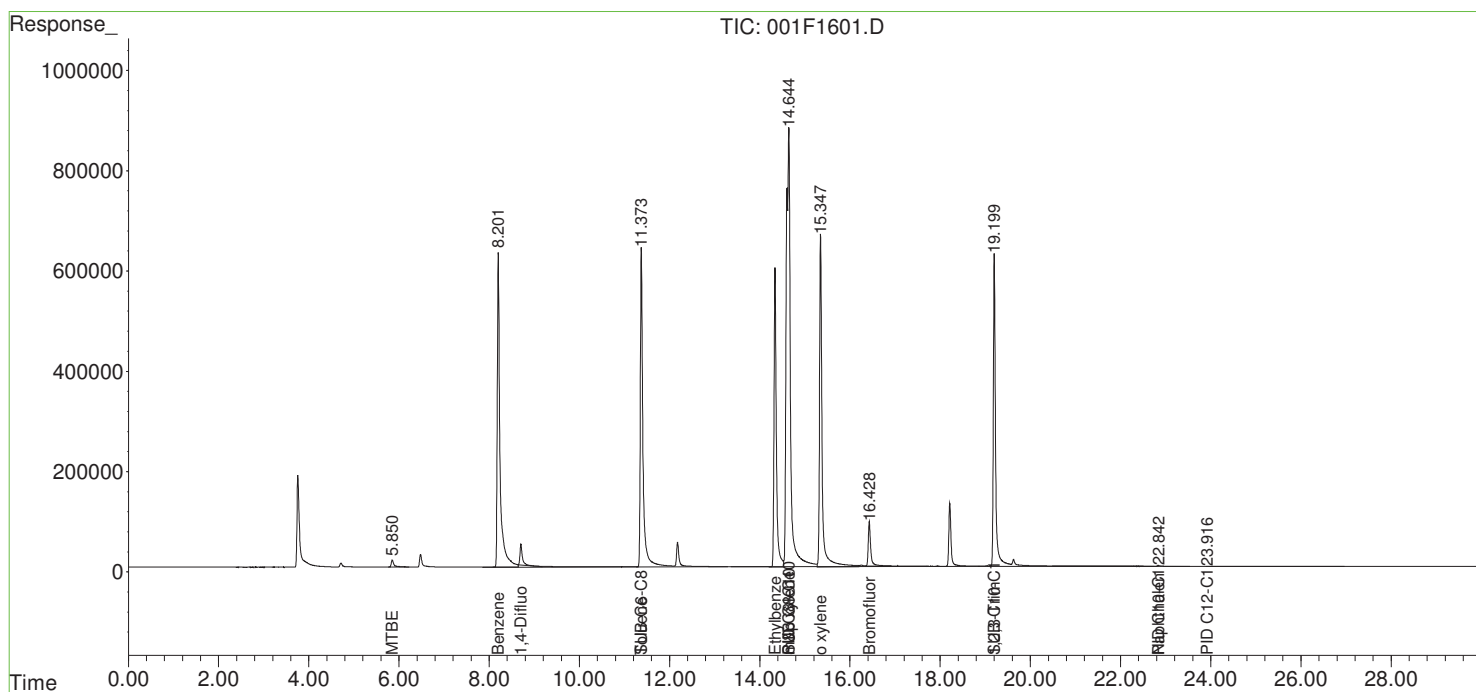
(f)=RT Delta > 1/2 Window

(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.

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 | VPHS Standard | | |
| O-FID-1REF-VPHS WA | VPHS 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 Type: Primary
 Date Prepared: 1/21/2016 BY: Samantha Beerma
 Date Expires: 8/30/2022
 Department: GC
 Vendor: Restek
 Lot Number: A0112476 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

www.restek.com

Certificate of Analysis



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

Table with 7 columns: Elution Order, Compound, Grav. Conc. (weight/volume), Expanded Uncertainty (95% C.L.; K=2), and three additional columns for measurement details. Rows 1-7 list compounds like n-Pentane, n-Hexane, MTBE, n-Octane, Benzene, n-Decane, and Toluene with their respective CAS numbers, purities, and certified values.

| | | | | | | |
|-----------------|--|-----------------|---------------|--|-------------------------|---------------------------------------|
| 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)

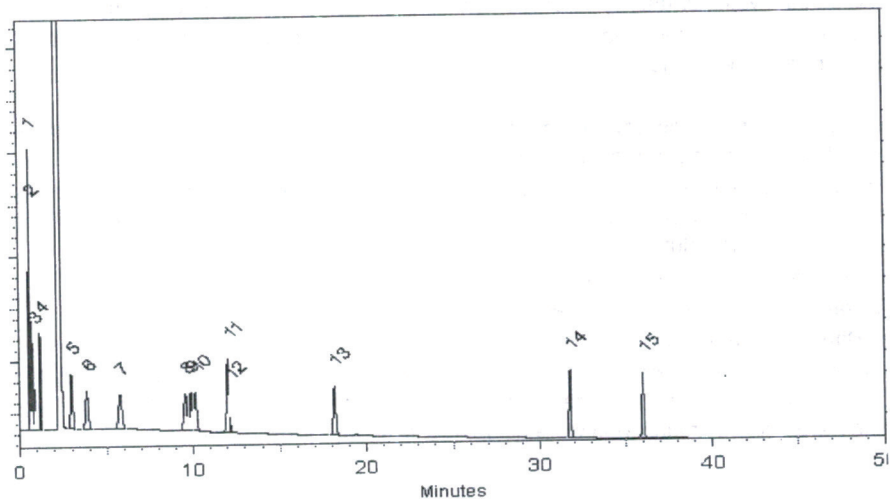
Carrier Gas:
hydrogen-constant pressure 20 psi

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

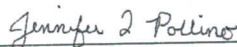


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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
 Date Prepared: 8/3/2015
 Date Expires: 11/30/2021
 Department: GC
 Vendor: Restek
 Lot Number: A0106735
 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 |
|-----------|--------------------|---------|-----------|--------|---------------|
| 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



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.:** 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: Final Volume: 0 mL
 Comments: GC 2

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 |
|------|----------------|--------------------|-----------|--------------|--------------|
|------|----------------|--------------------|-----------|--------------|--------------|

Stock Source

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

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
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



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. : 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)

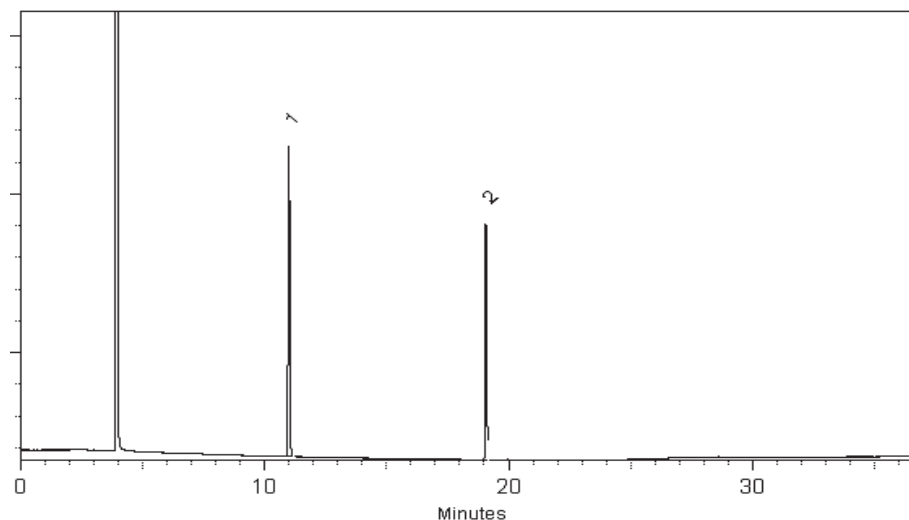
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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