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Managing Director

Mr. Gabe Stivala, P.G.
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915 Highland Point Drive, Suite 250
Roseville, CA 95678

Subject: **Additional Site Assessment Report**
2820 and 2855 Broadway, Oakland, CA
Alameda County LOP No. RO 3198

Dear Mr. Stivala:

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

Sincerely,

A handwritten signature in black ink, appearing to be "PS", written over a horizontal line.

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January 6, 2016

Ms. Dilan Roe
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

**Subject: Additional Site Assessment Report
Proposed Broadway Valdez Development Site**
2820 and 2855 Broadway
Oakland, California
Alameda County LOP No. RO 3198

Dear Ms. Roe:

On behalf of Broadstone on Broadway, LLC, ATC Group Services LLC (ATC) has prepared this *Additional Site Assessment Report* for supplemental soil and groundwater assessment at the above referenced parcels (the "Site"). The additional site assessment activities described in this report were performed in accordance with ATCs *Revised Work Plan for Additional Site Assessment* dated June 21, 2016. The *Revised Work Plan for Additional Site Assessment* supersedes the original work plan dated March 16, 2016 and clarifies the proposed scope of work agreed to in a meeting with Alliance, ATC, and the ACEH held on June 20, 2016. The proposed scope of work was designed to achieve the following objectives:

- Evaluate if benzene reported in the grab-groundwater sample at Boring B21, in the eastern portion of 2820 Broadway, is related to benzene impacts off-site to the south of the property;
- Determine if trichloroethene (TCE) reported in the grab-groundwater samples at Borings B3, B20, B21, B22, and B23, in the eastern portion of 2820 Broadway, are related to the TCE impacts offsite to the south of the property;
- Further evaluate the extent of metals, petroleum hydrocarbons, and debris identified in shallow soil at boring B21, in the eastern portion of 2820 Broadway;
- Evaluate whether carbon tetrachloride detected in grab-groundwater sample at Boring B11, on the south portion of 2855 Broadway, is from on-site or off-site;
- Evaluate metals in soil and groundwater at 2855 Broadway in preparation for excavation and dewatering necessary for future installation of a subterranean garage; and
- Estimate groundwater flow direction at 2855 and 2820 Broadway.

1.0 SITE BACKGROUND

The Site consists of two properties located on opposing sides of Broadway between 28th and 29th Streets in Oakland, California (**Figure 1**). APN 9-865-69-1 at 2820 Broadway is located on the eastern side of Broadway and extends east to the terminus of Valdez Street. APN 9-686-3 at 2855 Broadway is located on the western side of Broadway and bound to the west by Webster Street (**Figure 2**). Both properties are bound to the north and south by commercial properties in an area that is undergoing redevelopment from commercial to mixed use commercial and residential properties. The property at 2820 Broadway is improved with one building located on the western half of the property. The eastern half of the property consists of an asphalt-paved parking lot. The 2855 Broadway property void of structures and is currently used as an asphalt-paved parking lot.

1.1 Physical Setting

Both properties are located in an area that is undergoing redevelopment from commercial to mixed use commercial and residential properties and are bound to the north and south by commercial properties. Surface topography across the property is variable.

1.2 Site Historical Information

Historical Site information was presented in the *Phase I Environmental Site Assessment (ESA)* prepared by ATC dated September 24, 2015. A summary of the historical site information is provided below:

In 1911, the property at 2820 Broadway was identified as 1920 and 1922 Broadway and was depicted with a garage and carriage painting factory, and was vacant the following year. Property improvements occurred circa 1916. Between 1939 and 2005, the 2820 Broadway property was improved with a commercial and/or industrial building. Records indicate Oakland Volvo, an automobile dealership and service shop, occupied the property at 2820 Broadway from approximately 1989 to October 1991. Saturn of Oakland, an automobile dealership and service shop, occupied the property from January 1991 to approximately 1995. Connell Nissan occupied the property from January 2006 to August 2007. Records indicate that Premier Hyundai of Oakland, the current property occupant, has operated at the 2820 property since January 2014.

Between 1939 and 2005, the property at 2855 Broadway was used as an automotive tire and battery shop, an auto top shop, used car building and some residential use. From 2005 to present, the 2855 Broadway property has been used as a vehicle parking lot.

1.3 Summary of Previous Environmental Investigations

Previous environmental assessment activities were performed at the Site between April 2015 and November 2015. Details regarding the previous environmental assessment activities are described in the following reports:

- Limited Phase II Subsurface Investigation performed by AEI Consultants, dated April 2015
- Limited Phase II Environmental Assessment Report, 2800, 2820, 2855 Broadway, Oakland, California, by ATC dated December 29, 2015

The previous environmental assessment activities included the collection and analysis of soil and groundwater samples obtained from the two properties. No groundwater monitoring wells were installed during the previous environmental assessment activities. However, "grab" groundwater samples were obtained from select soil borings following installation of temporary well screens. The results from the previous soil and groundwater sampling activities are summarized in the limited Phase II ESA, dated December 29, 2015.

1.4 Applicable Screening Levels

Soil and groundwater data were screened using the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs), update February 2016. ESLs applied to soil data are taken from Table S-1 for Direct Exposure Human Health Risk Levels for Any Land Use/ Any Depth Soil Exposure for Construction Workers. These ESLs were selected based on potential direct exposure of construction workers to contaminants in soil during site redevelopment. Following redevelopment, direct exposure of site occupants to residual contaminants in soil is highly unlikely due to the presence of these future structures across the footprints of the 2820 and 2855 Broadway properties.

ESLs for groundwater are derived from Table GW-3 for Groundwater Vapor Intrusion Human Health Risk Levels. Two different sets of health-based, commercial/industrial ESLs (i.e., shallow and deep groundwater) were used for the groundwater vapor intrusion screening evaluation. Use of the shallow and deep groundwater ESLs is intended to allow for consideration of property-specific construction features and

the post-construction distance between the buildings and groundwater. Additional details regarding the rationale for selection and basis for use of the ESLs in light of the planned redevelopment activities are provided below:

- **Shallow Groundwater.** RWQCB ESLs for shallow groundwater are intended to apply to sites where the distance between the building and groundwater is less than or equal to 10 feet bgs. The RWQCB ESLs for shallow groundwater are based on the assumption that the subsurface lithology is comprised of entirely of sand. Following completion of the proposed redevelopment activities, the depth to groundwater will be less than 10 feet bgs across the entire footprint of the 2855 Broadway building. At the 2820 Broadway building, the post-construction depth to groundwater will be less than 10 feet bgs only in locations where elevator pits are installed. The results of laboratory analyses of groundwater samples collected from the 2820 and 2855 Broadway properties were compared to the shallow groundwater screening levels in these areas (i.e., 2820 Broadway elevator pit locations and the entire 2855 Broadway property) in order to determine whether the potential for vapor intrusion represents consideration of additional vapor intrusion mitigation measures.
- **Deep Groundwater.** RWQCB ESLs have been developed for deep groundwater conditions (i.e., sites where the distance between the building and groundwater is greater than or equal to 10 feet bgs. Based on groundwater monitoring data from July 19, 2016, the depth to groundwater at the 2820 Broadway property averages approximately 11.5 feet bgs. Redevelopment of the 2820 Broadway property will involve exclusively slab-on-grade construction. For the deep groundwater condition, ESL values have also been developed to reflect two possible soil types (i.e., sand scenario and fine-coarse scenario). In general, soil within the upper ten to twelve feet at the 2820 Broadway consists primarily of fine-grained silts and clays. In consideration of the observed depth to groundwater and soil lithology, the ESLs for the deep groundwater, fine-coarse scenario are considered to most accurately reflect the site-specific conditions for the 2820 Broadway property. The results of laboratory analyses of groundwater samples collected from the 2820 Broadway property were compared to the deep groundwater screening levels in order to determine whether the potential for vapor intrusion represents consideration of additional vapor intrusion mitigation measures. It should be noted that the features that extend beneath the building slab (e.g., elevator pits) for the 2820 Broadway property were conservatively evaluated for vapor intrusion potential under the shallow groundwater scenario.

In summary, ESLs for groundwater were selected based on the site-specific development activities, the final building grades, and the distance between the base of the building and groundwater following completion of construction activities.

The applicable ESLs for soil and groundwater are included in the data summary tables. (**Tables 1** through **Table 4**).

1.5 Previous Soil Sampling Results

Data collected from previous investigations is summarized below. The previously collected data is summarized and compared with applicable ESL in **Table 1** through **Table 4**.

2820 Broadway

Between April 8, 2015 and November 5, 2015, a total of twelve soil borings (B1, B3, B18 to B22, and SB7 to SB11) were advanced on the 2820 Broadway property. Soil samples were collected from these borings at depths ranging from approximately 3 to 24 feet below ground surface (bgs), and were analyzed for Volatile Organic Compounds (VOCs) and Total Petroleum Hydrocarbons (TPH) in the gasoline (TPHg) range by EPA Method 8260B, TPH in the diesel and motor oil ranges (TPHd and TPHo) by EPA Method 8015M, and metals by CAM 17 metals, including lead by EPA 200.7, EPA 6010B, EPA 6010C. A summary of the laboratory analytical findings from these investigations is provided below:

- **Total Petroleum Hydrocarbons** –TPHg were detected in five of thirty-four soil samples at concentrations ranging from 2.4 to 40 milligrams per kilogram (mg/kg)(compared to an ESL of

2,800 mg/kg). TPHd were detected in thirteen of thirty-four soil samples at concentrations ranging from 1.2 to 680 mg/kg (compared to an ESL of 880 mg/kg). TPHo were detected in five of thirty-four soil samples at concentrations ranging from 15 to 3,100 mg/kg (compared to an ESL of 32,000 mg/kg). The maximum concentrations of TPHg, TPHd, and TPHo were detected in the soil sample obtained from Boring B21 at a depth of 3 feet bgs.

- **Volatile Organic Compounds** – Trichloroethene (TCE) was detected in detected in one of thirty-four soil samples (B19 at 16 feet bgs) at a concentration of 0.016 mg/kg (compared to an ESL of 23 mg/kg). One additional VOC (sec-butyl benzene) was detected in one of thirty-four soil samples (B20 at 10 feet bgs) at a concentration of 0.0092 mg/kg (there is no ESL established for this compound). No other VOCs were detected in any of the soil samples collected from the 2820 Broadway property.
- **Metals** – Soil samples collected from three soil borings (B1, B3, and B21) advanced on the 2820 Broadway property were analyzed for metals. In general, the concentrations of metals detected in soil are consistent with background concentrations of these naturally-occurring elements. An elevated lead concentration of 1,500 mg/kg, (compared to an ESL of 160 mg/kg) was detected in the soil sample obtained from Boring B21 at a depth of 3 feet bgs.

2855 Broadway

Between April 8, 2015 and November 5, 2015, a total of five soil borings (SB1, SB2, SB3, B15 and B16) were advanced on the 2855 Broadway property. Soil samples were collected from these borings at depths ranging from approximately 8 to 28 feet below ground surface (bgs) and analyzed for VOCs and TPHg by EPA Method 8260B, TPHd and TPHo by EPA Method 8015M, and metals by CAM 17 metals, including lead by EPA 200.7, EPA 6010B, EPA 6010C. A summary of the laboratory analytical findings from these investigations is provided below:

- **Total Petroleum Hydrocarbons** –TPHg were detected in two of fifteen soil samples at concentrations ranging from 1.3 and 12 mg/kg (compared to an ESL of 2,800 mg/kg). TPHd were detected in three of fifteen soil samples at concentrations ranging from 1.2 to 290 mg/kg (compared to an ESL of 880 mg/kg). TPHo were detected in two of fifteen soil samples at concentrations of 56 and 590 mg/kg (compared to an ESL of 32,000 mg/kg). The maximum concentrations of TPHg, TPHd, and TPHo were detected in the soil sample obtained from Boring B15 at a depth of 8 feet bgs.
- **Volatile Organic Compounds** – Trace concentrations of VOCs, including toluene, ethylbenzene, total xylenes, chloroform, n-butyl benzene, and sec-butyl benzene were detected in one of fifteen soil samples at concentrations ranging from 0.0076 mg/kg (chloroform) to 0.03 mg/kg (n-butyl benzene), all of which were significantly below applicable ESLs. Naphthalene was detected in two soil samples collected from Boring B15 at depths of 8 and 12 feet bgs at concentrations of 0.15 and 0.056 mg/kg, respectively (compared to an ESL of 350 mg/kg). Carbon tetrachloride was detected at concentrations ranging from 0.01 to 0.016 mg/kg in four soil samples collected from Boring B16 at depths of 16, 20, 24, and 28 feet bgs (compared to an ESL of 13 mg/kg). No other VOCs were detected in any of the soil samples collected from the 2855 Broadway property.
- **Metals** – Soil samples collected from two soil borings (B15 and B16) advanced on the 2855 Broadway property were analyzed for metals. In general, the concentrations of metals detected in soil are consistent with background concentrations of these naturally-occurring elements. Nickel was detected above the ESL of 86 mg/kg in two samples at concentrations of 100 mg/kg and 95 mg/kg in samples B16-8' and B16, 16', respectively. No other metals concentrations exceeded ESLs.

1.6 Previous Groundwater Sampling Results

Between September 19 and November 6, 2015, “grab” groundwater samples were obtained from select soil borings advanced within the 2820 and 2855 Broadway properties. The groundwater samples were obtained by inserting a temporary ¾” PVC well screen and casing into the open borehole. Groundwater samples were collected from each casing using a peristaltic pump fitted with downhole tubing. Samples were collected and analyzed for VOCs and TPHg by EPA Method 8260B, TPHd and TPHo by EPA Method

8015M, and metals by CAM 17 metals, including lead by EPA 200.7, EPA 6010B, EPA 6010C. A summary of the laboratory analytical findings from these investigations is provided below:

2820 Broadway

Groundwater samples were obtained from nine soil borings (B1, B3, and B17 through B23) at depths ranging from approximately 17 to 28 feet bgs. The shallowest groundwater sample was obtained from Boring B1 at a depth of approximately 17 feet bgs. Groundwater samples were obtained from Borings B3, B17 through B20, and B22 at depths ranging from approximately 20 to 24 feet bgs. The deepest groundwater samples were obtained from Borings B21 and B23 at approximately 28 feet bgs. A summary of the laboratory analytical results of groundwater samples obtained from this property is provided below:

- **Total Petroleum Hydrocarbons** – TPHg were detected in three of nine groundwater samples at concentrations ranging from 75 to 5,500 micrograms per liter ($\mu\text{g/L}$). TPHd were detected in seven of nine groundwater samples at concentrations ranging from 95 to 1,100 $\mu\text{g/L}$. TPHo were detected in six of nine groundwater samples at concentrations ranging from 310 to 3,400 $\mu\text{g/L}$. Groundwater ESLs applicable to petroleum hydrocarbons in this case are for vapor intrusion, only, for which no ESLs have been established for TPH. The maximum concentrations of TPHg and TPHd were detected in the groundwater sample obtained from Boring B21, while the maximum concentration of TPHo was detected in the groundwater sample obtained from Boring B22.
- **Volatile Organic Compounds**– A variety of VOCs were detected in groundwater at concentrations ranging from 0.48 $\mu\text{g/L}$ (MTBE) to 210 $\mu\text{g/L}$ (total xylenes) at concentrations significantly below ESLs. Benzene was detected in two groundwater samples, B21 and B23, at concentrations of 120 and 16 $\mu\text{g/L}$, respectively (compared to an ESL of 260 $\mu\text{g/L}$ [for deep groundwater]). Carbon tetrachloride was detected in two groundwater samples (B17 and B18) at concentrations of 1.9 and 0.80 $\mu\text{g/L}$, respectively (compared to an ESL of 69 $\mu\text{g/L}$ [for deep groundwater]). TCE was detected in six groundwater samples (B3, B19, and B20 through B23) at concentrations ranging from 7.9 $\mu\text{g/L}$ (B19) to 79 $\mu\text{g/L}$ (B23) (compared to an ESL of 1,500 $\mu\text{g/L}$ [for deep groundwater]). No other VOCs were detected in groundwater at concentrations in excess of chemical-specific ESLs.
- **Metals** – Groundwater samples collected from two soil borings (B1 and B3) advanced on the 2820 Broadway property were analyzed for metals. Metals detected in these groundwater samples include barium (100 and 140 $\mu\text{g/L}$) (compared to an ESL of 2,000 $\mu\text{g/L}$), cobalt (8.2 and 12 $\mu\text{g/L}$) (compared to an ESL of 6 $\mu\text{g/L}$), and nickel (18 $\mu\text{g/L}$) (compared to an ESL of 12 $\mu\text{g/L}$).

2855 Broadway

Groundwater samples were obtained from three soil borings (B11, B15, and B16) at depths ranging from approximately 15 to 22 feet bgs. The shallowest groundwater sample was obtained from Boring B11 at a depth of approximately 15 feet bgs. Groundwater samples were obtained from Borings B15 and B16 at depths of 18 and 22 feet bgs, respectively, and were analyzed for VOCs and TPHg by EPA Method 8260B, and TPHd and TPHo by EPA Method 8015M. A summary of the laboratory analytical findings from these investigations is provided below:

- **Total Petroleum Hydrocarbons** – TPHg were not detected in any of the three groundwater samples collected at this property. TPHd were detected in two of three groundwater samples at concentrations ranging from 120 to 480 $\mu\text{g/L}$. TPHo were detected in one of three groundwater samples at a concentration of 460 $\mu\text{g/L}$. Groundwater ESLs applicable to petroleum hydrocarbons in this case are for vapor intrusion, only, for which no ESLs have been established for TPH. The maximum concentrations of TPHd and TPHo were detected in the groundwater sample obtained from Boring B11.
- **Volatile Organic Compounds** – The only VOCs detected in groundwater samples obtained from this property were carbon tetrachloride and chloroform. Carbon tetrachloride was detected in two samples (B11 and B16) at concentrations of 34 and 4.8 $\mu\text{g/L}$, respectively (compared to an ESL of 1.9 $\mu\text{g/L}$). Chloroform was detected in two groundwater samples (B11 and B16) at concentrations

of 34 and 4.8 $\mu\text{g/L}$, respectively (compared to an ESL of 20 $\mu\text{g/L}$). No other VOCs were detected in groundwater samples obtained at the 2855 Broadway property.

2.0 ADDITIONAL SITE ASSESSMENT ACTIVITIES

2.1 Soil Boring and Monitoring Well Placement and Sampling Rationale

The soil boring and monitoring well locations were determined based on the results of previous environmental assessment and subsequent discussions with the ACEH. The soil boring and groundwater monitoring well locations were intended to further characterize the lateral distribution of constituents previously detected in soil, to further assess the lateral extent of VOCs in groundwater, and to establish the local groundwater flow direction. The locations of certain soil borings and/or groundwater monitoring wells were also designed to address conditions associated with subsurface features associated with the proposed site redevelopment activities. **Figure 2** depicts the locations of the soil borings and groundwater monitoring wells. The tabular summary presented below describes the rationale for the originally intended boring and monitoring well locations, the soil and groundwater sampling regime, and the laboratory analytical methods for soil and groundwater. The assessment was performed in general accordance with the rationale below:

Well/Boring	Property Address	Boring Location Rationale	Samples and Analyses
B27	2820 Broadway	<p>Location: Southwest and cross to downgradient of Boring B21. Immediately north of the trench basin to be removed during site redevelopment activities.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) Further assess the lateral and vertical extent of lead in shallow soil and petroleum hydrocarbons in shallow and deep soil. 2) Assess the lateral extent of benzene and TCE in groundwater. 	<p>Two soil samples were collected within the upper 5 feet bgs; two additional soil samples collected between 5 feet bgs and first encountered groundwater. Samples were collected based on PID screening and visual observation. Soil samples were analyzed for full VOCs TPHg, TPHd, and TPHo, and lead. The groundwater sample were analyzed for full VOCs and lead (samples laboratory filtered prior to analysis).</p>
B28	2820 Broadway	<p>Location: North and crossgradient relative to B21.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) Further assess the lateral and vertical extent of lead in soil. 2) Assess the lateral extent of benzene in groundwater. 	<p>Two soil samples were collected within the upper 5 feet bgs; four additional soil samples were collected between 5 feet bgs and first encountered groundwater. Samples were collected based on PID screening and visual observation. Soil samples were analyzed for full VOCs TPHg, TPHd, and TPHo, and lead (samples laboratory filtered prior to analysis). The groundwater sample was analyzed for full VOCs.</p>
MW-1/B29	2820 Broadway	<p>Location: Southeast and upgradient of Boring B21. Immediately south of the trench basin to be removed during site redevelopment activities.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) Assess for lateral and vertical extent of TPH and lead in soil southeast of Boring B21. 2) Assess the lateral extent of benzene 	<p>Two soil samples were collected within the upper 5 feet bgs; four additional soil samples were collected between 5 feet bgs and first encountered groundwater. Samples were collected based on PID screening and visual observation. Soil samples were analyzed for full VOCs TPHg, TPHd, and TPHo, and lead</p>

Well/Boring	Property Address	Boring Location Rationale	Samples and Analyses
		<p>and TCE in groundwater in a properly installed and developed groundwater monitoring well.</p> <p>3) Provide groundwater elevation data in order to more accurately measure groundwater gradient and flow directions.</p>	<p>(samples laboratory filtered prior to analysis). The groundwater samples were analyzed for full VOCs and the monitoring well sample analyzed for lead. A groundwater sample was collected from the completed monitoring well >48 hours after well development.</p>
MW-2/B30	2820 Broadway	<p>Location: South of Boring B21 and west of Boring B22 located near the southern property line.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) Assess the lateral extent of lead and TPH in soil south of Boring B21 2) Assess the lateral extent of benzene and TCE in groundwater in a properly installed and developed groundwater monitoring well. 3) Provide groundwater elevation data in order to more accurately measure groundwater gradient and flow directions. 	<p>Two soil samples were collected in the top 5 feet bgs; three additional soil samples were collected between 5 feet bgs and first encountered groundwater. Samples were collected based on PID screening and visual observation. Soil samples were analyzed for full VOCs TPHg, TPHd, and TPHo, and lead. The boring and monitoring well groundwater samples were analyzed for full VOCs and lead (samples laboratory filtered prior to analysis).</p>
MW-3/B31	2820 Broadway	<p>Location: Immediately north of previous Boring B22.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) Characterize the concentrations of TPH and TCE in groundwater in a properly installed and developed groundwater monitoring well. 2) Provide groundwater elevation data to more accurately measure groundwater gradient and flow directions. 	<p>The groundwater sample from the monitoring well was analyzed for full VOCs and lead (samples laboratory filtered prior to analysis). No soil samples were collected because soil samples collected from Boring B22 were already subjected to laboratory analysis.</p>
MW-4/B24	2855 Broadway	<p>Location: Within the approximate center point of a proposed elevator shaft within the northeastern portion of the parcel.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) Assess the lateral extent of carbon tetrachloride in groundwater north of Borings B11 and B16. 2) Evaluate the possible presence of an onsite source for VOCs in soil. 3) Provide groundwater elevation data to more accurately measure groundwater gradient and flow directions. 4) Possible future use of well for aquifer testing to support dewatering associated with proposed subterranean garage construction. 	<p>Field soil were screened PID every five feet. Three soil samples were collected for laboratory analysis based on field screening and observations. A groundwater sample was collected from the completed monitoring well >48 hours after well development. Soil samples were analyzed for full VOCs. The monitoring well groundwater sample was analyzed for full VOCs and CAM 17 Metals (samples were lab filtered prior to analysis).</p>
MW-5/B25	2855	<p>Location: West of Boring B16 along</p>	<p>Field soil was screened using a</p>

Well/Boring	Property Address	Boring Location Rationale	Samples and Analyses
	Broadway	the western property line. Objectives: 1) Further assess the lateral distribution of carbon tetrachloride in groundwater west of Boring B16 and northwest of Boring B11. 2) Evaluate the possible presence of an onsite source for VOCs in soil. 3) Provide groundwater elevation data to more accurately measure groundwater gradient and flow directions. 4) Possible future use of well for aquifer testing to support dewatering associated with proposed subterranean garage construction.	PID every five feet. Three soil samples were collected for laboratory analysis based on field screening and observations. A groundwater sample was collected from the completed monitoring well >48 hours after well development. Soil samples were analyzed for full VOCs. The monitoring well groundwater sample was analyzed for full VOCs and CAM 17 Metals (samples laboratory filtered prior to analysis).
MW-6/B26	2855 Broadway	Location: East of Boring B11 near the eastern property line. Objectives: 1) Further assess the lateral extent of carbon tetrachloride in groundwater within the southeastern portion of the parcel, east of Boring B11 and south of Boring B16. 2) Evaluate the possible presence of an onsite source for VOCs in soil. 3) Provide groundwater elevation data to more accurately measure groundwater gradient and flow directions. 4) Possible future use of well for aquifer testing to support dewatering associated with proposed subterranean garage construction.	Field soil to be screened using a PID every five feet. Three soil samples were collected for laboratory analysis based on field screening and observations. A groundwater sample was collected from the completed monitoring well >48 hours after well development. Soil samples were analyzed for full VOCs. The monitoring well groundwater sample was analyzed for full VOCs and CAM 17 Metals (samples laboratory filtered prior to analysis).

Notes:

Total VOCs – volatile organic compounds by EPA Method 8260B
 TPHg – total petroleum hydrocarbons in the gasoline range by EPA Method 8260B
 TPHd – total petroleum hydrocarbons in the diesel range by EPA Method 8015M
 TPHo – total petroleum hydrocarbons in the motor oil range by EPA Method 8015M
 CAM 17 Metals – CAM 17 metals, including lead by EPA 200.7, EPA 6010B, EPA 6010C

2.2 PRE-FIELD ACTIVITIES

2.2.1 Planning and Permits

ATC obtained a drilling permit from Alameda County Public Works for the advancement of borings and installation of permanent monitoring wells. A copy of the drilling permit is included in **Attachment A**.

2.2.2 Health and Safety Plan

As required by the Occupational Safety and Health Administration (OSHA) Standard “Hazardous Waste Operations and Emergency Response” guidelines (29 CFR 1910.120), and by California Occupational Safety and Health Administration (Cal-OSHA) “Hazardous Waste Operations and Emergency Response” guidelines (CCR Title 8, Section 5192), ATC prepared a Site-Specific Health and Safety Plan (HASP) prior to the commencement of fieldwork. The Site-Specific HASP was reviewed and signed by field staff and contractors before beginning field operations at the Site.

2.2.3 Underground Utility Locating and Clearance

In advance of field activities, ATC marked the locations of the proposed well and boring in accordance with the Underground Service Alert (USA) guidelines, and notify USA of upcoming subsurface activities in order for existing underground utilities in the area of proposed work to be located and contact avoided. ATC also contracted a private utility locator to confirm the locations of underground utilities in the vicinity of the drilling locations.

2.3 SUBSURFACE INVESTIGATION METHODOLOGY

Between July 5 and July 8, 2016, ATC advanced seven direct-push soil borings (B24 through B30). Four of these soil borings (B27, B28, B29, and B30) were advanced within the 2820 Broadway property. Soil borings B29 and B30 were subsequently converted into groundwater monitoring wells MW-1 and MW-2, respectively, by overdrilling the borings with hollow-stem auger. One additional soil boring (B31) was advanced on the 2820 Broadway property and was subsequently converted to groundwater monitoring well MW-3. The three remaining direct-push borings (B24, B25, and B26) were advanced within the 2855 Broadway property and were subsequently converted into groundwater monitoring wells MW-4, MW-5, and MW-6, respectively, by overdrilling the borings with hollow-stem auger.

2.3.1 Drilling and Sampling

The soil borings were drilled by Gregg Drilling & Testing, Inc, a C-57 licensed drilling company to depths of five feet below first encountered groundwater or to a maximum depth of 25 feet bgs at the 2820 Broadway property and 30 feet bgs at the 2855 Broadway property. An ATC field scientist, under the responsible charge of a California Registered Professional Geologist, logged the borings and collected soil samples. Soil samples were collected from each boring for lithologic logging and field screening, as well as for laboratory analyses. Soil was logged in general accordance with the American Standards for Testing Materials (ASTM) 2488-06 and the Unified Soil Classification System (USCS). Soil was observed for visual impacts and screened using a photo-ionization detector (PID). Copies of the soil boring logs are included in **Attachment B**.

The soil was extracted from each boring in a 4-foot by 1.5-inch outside diameter (O.D.) core sampler equipped with an acetate liner using direct-push technology. Samples contained in acetate liners were capped with Teflon tape and plastic end caps. Samples were then labeled and stored in a cooler with ice. Samples were transported to a California state-certified analytical laboratory under standard chain-of-custody protocol.

Soil samples were collected as follows:

- 2820 Broadway (APN 9-865-69-1)
 - B27: 2, 4, 10, and 15 feet bgs
 - B28: 2, 4, 10, 15, 20, and 25 feet bgs
 - MW-1/B29: 2, 4, 10, 15, 20, and 25 feet bgs
 - MW-2/B30: 2, 4, 10, and 15 feet bgs
 - MW-3/B31: 2 and 4 feet bgs
- 2855 Broadway (APN 9-686-3)
 - MW-4/B24: 15, 20, and 25 feet bgs
 - MW-5/B25: 15, 20, and 25 feet bgs
 - MW-6/B26: 15, 20, and 25 feet bgs

Soil samples were analyzed for VOCs and TPHg by EPA Method 8260B and TPHd and TPHo by EPA Method 8015M. Soil samples obtained from Borings B24, B25, and B26 located on the 2855 Broadway property were analyzed for only VOCs by EPA Method 8260B. All soil samples obtained from Borings B27 through B31 were also analyzed for lead using EPA Method 6010B.

Groundwater samples were collected from total depth in Borings B27 through B30 at 2820 Broadway prior to well completion using a temporary screened PVC casing installed via direct push technology. Groundwater samples were analyzed for VOCs and TPHg by EPA Method 8260B, and TPHg by EPA Method 8260B and TPHd and TPHo by EPA Method 8015M. No groundwater samples were collected from Borings B24, B25, or B26 advanced on the 2855 Broadway property.

2.3.2 Groundwater Monitoring Well Installation

The six permanent monitoring wells, MW-1 through MW-6, were installed using eight-inch hollow stem augers. Wells MW-1 through MW-3 were installed to an approximate total depth of 25 feet bgs, while Monitoring Wells MW-4 through MW-6 were installed to an approximate total depth of 30 feet bgs. Wells are constructed with a 2-inch diameter schedule 40 PVC casing with 15 feet of 0.010-inch slotted screen. A 2/12 Monterey sand filter pack was placed around the screened interval to 2 feet above the top of the screened interval. A two-foot bentonite transition seal was placed above the filter pack. The remaining annulus was sealed with a Portland I/II neat cement slurry. The wells were finished traffic-rated well vaults and fitted with a locking well cap. The well construction details are presented in **Table 1**.

2.3.3 Monitoring Well Development and Surveying

Six groundwater Monitoring Wells (Monitoring Wells MW-1, MW-2, and MW-3 installed within the eastern portion of 2820 Broadway and monitoring Wells MW-4, MW-5, and MW-6 installed at 2855 Broadway) were developed on July 14, 2016. The well development activities commenced a minimum of 48-hours following the groundwater monitoring well installations. The well development methods included agitation with a surge over the length of the screened interval following by the hand-bailing and purging of approximately ten casing volumes of groundwater from each well.

Groundwater Monitoring Wells MW-1 through MW-6 were surveyed by a licensed surveyor to a local benchmark relative to mean sea level on August 2, 2016. Survey data including elevation, longitude, and latitude were uploaded to the state GeoTracker database.

Monitoring well development logs are included in **Attachment C**.

2.3.4 Groundwater Monitoring and Sampling

On July 19, 2016 ATC mobilized to the site in order to obtain fluid-level measurements and obtain groundwater samples from six groundwater monitoring wells (MW-1 through MW-6). Depth to groundwater in each monitoring well was measured from the top of the casing using an electronic interface probe with conductance sensors. No separate phase hydrocarbons were detected in any of the groundwater monitoring wells. The measured depth to groundwater in the monitoring wells ranged from a minimum of 9.13 feet below top of casing (MW-5) to a maximum of 12.65 feet below top of casing (MW-2).

The groundwater monitoring wells were purged of a maximum of three casing volumes of fluid using a centrifugal pump. New, disposable down-well tubing was changed between each well to prevent cross-contamination. Following well purging, groundwater samples were obtained from each well by lowering a 1.5-inch diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The groundwater samples were transferred from the check-valve equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample was labeled with the project number, well number, sample date, and sampler's initials and then transported to a California state-certified analytical laboratory, under standard chain-of-custody protocol.

Groundwater samples were analyzed for VOCs and TPHg by EPA Method 8260B. Groundwater samples obtained from Monitoring Wells MW-1 through MW-3 were also analyzed for lead by EPA Method 200.7 and groundwater samples obtained from Monitoring Wells MW-4, MW-5, and MW-6 were analyzed for

CAM 17 metals by EPA Methods 6010B/7471A. Groundwater samples analyzed for metals were collected in bottles without preservative and filtered at the laboratory prior to analysis.

Groundwater monitoring logs are included in **Attachment D**.

2.3.5 Investigation Derived Waste Disposal

Soil cuttings and purge/rinseate water generated during boring and well installation, well development, and groundwater monitoring and sampling activities were temporarily stored on-site in California DOT approved 55-gallon steel drums pending characterization and disposal. Composite soil samples were collected to profile soil for disposal. The drums are stored on site and will be removed from the site and disposed of at a permitted disposal facility.

3.0 FINDINGS

3.1 SOIL LITHOLOGY AND HYDROGEOLOGY

Soil encountered during drilling consisted of interlayered silt and clay units from the surface to total explored depth of 25 or 30 feet bgs. Intervals of higher permeability poorly graded sand and gravelly units ranging thickness from 1 to 5 feet were observed at depths ranging from approximately 10 to 25 feet bgs. Cross-sections A-A', BB', and C-C' depicting the subsurface lithology are presented on **Figure 3 through Figure 5**, respectively.

In each of the borings, groundwater was observed to enter the boring slowly and filled to an elevation slightly above the first indication of saturated soil. This observation suggests that groundwater exists under "semi-confined" conditions. Sediments encountered in all soil borings were relatively heterogeneous and no specific lithologic unit representing a water bearing zone was identified to exist continuously across the Site. In general, the soil lithology is dominated by finer sediments (i.e., clays and silts) that can be presumed to be of low permeability. At the 2855 property, the hydrostatic groundwater levels in Monitoring Wells MW-4 through MW-6 exist above the top of the screened intervals. Groundwater recharge in Monitoring Well MW-6 was slow as compared to Monitoring Wells MW-4 and MW-5. The hydrostatic groundwater elevation in MW-6 is significantly lower than the other two wells on this property. The reason for this variation has not been determined. Conversely, final hydrostatic levels in wells on the 2820 Broadway property are essentially equivalent and the groundwater gradient is nearly flat. The groundwater flow direction beneath the 2820 Broadway property during this study was to the west and southwest. The apparent groundwater flow direction beneath the 2855 Broadway property during this study was to the southeast. The hydrostatic groundwater elevations on the 2855 Broadway property are approximately 2 to 5 feet higher than the hydrostatic groundwater elevations on the 2820 Broadway property. However, it should be noted that the groundwater flow direction in the general vicinity of the site is reportedly variable. Historical groundwater monitoring and sampling performed at the former Volkswagen Automobile Dealership located at 2750 Broadway, across 28th Street and south of the property, reported the groundwater flow direction to be oriented to the west to northwest. Based on these observations, the groundwater flow direction appears to be variable likely due to seasonal variation and or topographic variability. The limited monitoring data generated from newly installed monitoring wells is insufficient to determine the overall groundwater flow direction. However, dissolved TPHg and TCE plume geometry on- and offsite appears to be a good indicator of average historical groundwater flow direction, and appears to be to the east-northeast on the 2820 Broadway property.

3.2 SOIL SAMPLING RESULTS

Soil analytical results are presented in **Table 1 and Table 2**, and select results are presented on **Figures 3 through 6**. Laboratory analytical reports are included in **Attachment C**. The following sections of this report summarize the laboratory analytical results of soil samples obtained at the 2820 and 2855 Broadway properties.

3.2.1 2820 Broadway (APN 9-865-69-1)

On July 7 and July 8, 2016, a total of five soil borings (B27, B28, B29, B30, and B31) were advanced on the 2820 Broadway property. Soil samples were collected from these borings at depths ranging from approximately 2 to 25 feet bgs. A summary of the laboratory analytical findings from this investigation is provided below:

Soil samples collected had reported concentrations of TPHd, TPHo, BTEX, and naphthalene along with various other VOCs, all below their respective ESLs for direct exposure. Of note are:

- TPHd concentrations ranged from 3.89 mg/kg in B30 at 10 feet bgs to 363 mg/kg in Boring B30 at 15 feet bgs (below the ESL of 880 mg/kg).

- TPHo concentrations ranged from 3.67 mg/kg in B31 at 4 feet bgs to 231 mg/kg in Boring B31 at 2 feet bgs (below the ESL of 32,000 mg/kg).
- TPHg concentrations ranged from 0.104 mg/kg in B28 at 25 feet bgs to 1,570 mg/kg in Boring B28 at 15 feet bgs (below the ESL of 2,800 mg/kg). Several reported detections of TPHg were noted to be above the of the analytical instrument calibration range.
- Benzene concentrations ranged from 0.0316 mg/kg in B27 at 15 feet bgs to 0.937 mg/kg in Boring B29 at 15 feet bgs (below the ESL of 24 mg/kg).
- Toluene concentrations ranged from 0.0092 mg/kg in B28 at 20 feet bgs to 8.9 mg/kg in Boring B28 at 15 feet bgs (below the ESL of 4,100 mg/kg).
- Ethylbenzene concentrations ranged from 0.0066 mg/kg in Boring B28 at 20 feet bgs to 6.86 mg/kg in Boring B29 at 10 feet bgs (below the ESL of 480 mg/kg).
- Total xylenes concentrations ranged from 0.0423 mg/kg in Boring B28 at 20 feet bgs to 40.1 mg/kg in Boring B28 at 15 feet bgs (below the ESL of 2,400 mg/kg).
- Naphthalene concentrations ranged from 0.226 mg/kg in Boring B29 at 15 feet bgs to 1.68 mg/kg in Boring B29 at 2 feet bgs (below the ESL of 350 mg/kg).

Lead was reported in soil samples collected at concentrations ranging from 3.1 mg/kg to 580 mg/kg. One sample, Boring B31 at 2 feet bgs exceeded the ESL for Direct Exposure Human Health Risk of 160 mg/kg with a concentration of 580 mg/kg.

3.2.2 2855 Broadway (APN 9-686-3)

On July 5 and July 6, 2016, three soil borings (B24, B25, and B26) were advanced on the 2855 Broadway property. Discrete soil samples were collected from these borings at depths ranging from approximately 15 to 25 feet bgs. Soil samples collected from these borings at depths ranging from 5 to 25 feet bgs were also composited for subsequent laboratory analysis for waste disposal profiling.

Soil samples collected had reported concentrations of carbon tetrachloride in two samples at 0.0219 mg/kg in Boring B25 at 20 feet bgs and 0.0237 mg/kg in Boring B25 at 15 feet bgs, both below the ESL of 13 mg/kg. No other VOCs were reported above the laboratory detection limits.

Soil samples were composited in the lab from Borings B24, B25, and B26 for waste disposal profiling. Composite soil samples CompB24 (5-25), CompB25 (5-25), and CompB26 (5-25) reported only TPHd at 16 mg/kg, 13.7 mg/kg, and 7.29 mg/kg, respectively, below the ESL of 850 mg/kg, and all CAM 17 metals, except antimony, below the respective ESLs with lead below the STLC threshold for disposal.

3.3 GROUNDWATER MONITORING AND SAMPLING RESULTS

3.3.1 Groundwater Monitoring Results

Depth to water was measured in each of the six groundwater monitoring wells installed during this investigation. Depth to groundwater measurements were obtained from each well prior to groundwater sampling on July 19, 2016 and during well surveying activities performed on August 2, 2016. **Table 4** below presents the well-specific depth to groundwater and calculated groundwater elevations for these two events.

TABLE 4
Groundwater Elevation Data
2820 and 2855 Broadway
Oakland, CA

Sample ID	Gauging Date	TOC Elevation (feet above MSL)	Depth to Groundwater (feet below TOC)	GWE (feet above MSL)
2820 Broadway				
MW-1	7/19/2016	36.70	12.42	24.28
MW-2	7/19/2016	36.90	12.65	24.25
MW-3	7/19/2016	36.58	12.25	24.33
MW-1	8/2/2016	36.70	12.51	24.19
MW-2	8/2/2016	36.90	12.76	24.14
MW-3	8/2/2016	36.58	12.37	24.21
2855 Broadway				
MW-4	7/19/2016	41.57	11.87	29.70
MW-5	7/19/2016	38.85	9.13	29.72
MW-6	7/19/2016	37.07	10.93	26.14
MW-4	8/2/2016	41.57	11.97	29.60
MW-5	8/2/2016	38.85	9.14	29.71
MW-6	8/2/2016	37.07	10.95	26.12
Definitions/Abbreviations:				
TOC -- Top of casing				
MSL -- Mean sea level				
GWE -- Groundwater elevation				
TOC elevation surveyed to the California Coordinate System, Zone 3, horizontal datum NAVD 1988 from GPS by Tronoff Associates Land Surveying of West Sacramento, California on August 2, 2016.				

Based on the measured depth to groundwater recorded on July 19, 2016, groundwater beneath the 2820 Broadway property was determined to flow toward the west-northwest at a gradient of 0.001. Groundwater beneath the 2855 Broadway property was determined to flow to the southeast at a gradient of 0.06. Based on the measured depth to groundwater recorded on August 2, 2016, groundwater beneath the 2820 Broadway property was determined to flow toward the west-northwest at a gradient of 0.001. Groundwater beneath the 2855 Broadway property was determined to flow to the southeast at a gradient of 0.06. Groundwater elevation data and flow directions based on the groundwater measurements are shown on **Figures 7 and 8**.

3.3.2 Groundwater Sampling Results

The laboratory analytical results of groundwater samples obtained during this and previous site investigations are presented in **Table 3** and **Table 4**. The most-recent groundwater sampling results are also presented on **Figures 9 and 10**. Copies of the official laboratory analytical reports for groundwater samples analyzed as a component of this investigation are included in **Attachment E**.

2820 Broadway (APN 9-865-69-1)

Groundwater samples collected from the 2820 Broadway property included “grab” groundwater samples obtained from Borings B27, B28, B29, and B30 on July 7 and 8, 2016 during direct-push drilling. Borings B29 and B30 were subsequently converted to groundwater Monitoring Wells MW-1 and MW-2, respectively, and one additional groundwater monitoring well (MW-3) was also installed on this property. Groundwater samples were obtained from Monitoring Wells MW-1, MW-2, and MW-3 on July 19, 2016. It should be noted that the results of groundwater samples obtained from the permanent groundwater monitoring wells is considered to be more representative of the actual groundwater conditions. The discussion provided below differentiates between the laboratory analytical results for grab groundwater samples and groundwater samples obtained from the permanent groundwater monitoring wells.

Grab-groundwater samples collected from Borings B27 through B30 had reported concentrations of benzene and ethylbenzene above their respective ESLs for vapor intrusion, with various other VOCs detected above the laboratory method detection limit. Analytes with ESL exceedances for vapor intrusion are as follows:

- Benzene concentrations ranged from 11.4 µg/L in Boring B27 to 2,820 µg/L in Boring B29 (compared to the ESL of 9.7 µg/L).
- Ethylbenzene concentrations ranged from 61.4 µg/L in Boring B30 to 1,390 µg/L in Boring B29 (compared to the ESL of 110 µg/L)

Groundwater samples collected from monitoring wells MW-1 through MW-3 had reported concentrations of benzene and ethylbenzene above their respective ESLs for vapor intrusion, with various other VOCs detected above the laboratory method detection limit. Analytes with ESL exceedances for vapor intrusion are as follows:

- Benzene, was reported at concentrations ranging from 696 µg/L in Monitoring Well MW-1 to 823 µg/L in Monitoring Well MW-2, compared to the ESL of 9.7 µg/L.

Dissolved lead was not detected in any of the groundwater samples obtained.

2855 Broadway (APN 9-686-3)

Groundwater samples obtained from Monitoring Wells MW-4, MW-5, and MW-6 on July 19, 2016 were analyzed for TPHg, VOCs, and dissolved metals. Groundwater samples collected from Monitoring Wells MW-4 through MW-6 had reported concentrations of TPHg, chloroform, TCE, and PCE below their respective ESLs for vapor intrusion. Well MW-5 had reported carbon tetrachloride at a concentration of 57.4 µg/L and MW-6 reported carbon tetrachloride at a concentration of 23.8 µg/L, both in exceedance of the ESL for vapor intrusion of 1.9 µg/L. No lead was reported in any monitoring well samples. Nickel and Zinc were reported for MW-1 only at concentrations of 5.7 µg/L and 38.7 µg/L, respectively, below their respective ESLs for direct contact of 12 µg/L and 6,000 µg/L, respectively.

4.0 CONCLUSIONS

The results of this and previous environmental assessment activities conducted on the 2820 and 2855 Broadway properties indicates the presence of petroleum hydrocarbons, VOCs, and metals in soil and/or groundwater. The environmental assessment data generated to date is sufficient to identify the pertinent chemicals of potential concern that warrant consideration and management in light of the planned construction and redevelopment of the properties.

Based on the results of this investigation and the planned site redevelopment activities, ATC offers the following conclusions:

2820 Broadway (APN 9-868-69-1)

Soil

The results of this and previous environmental assessment activities conducted on the 2820 Broadway property indicate the presence of petroleum hydrocarbons and lead in shallow soil within the eastern portion of the property. Elevated concentrations of lead in soil appear to be limited to the upper 3 feet of soil with the highest concentrations observed in soil borings B21 (1,500 mg/kg at 3 feet bgs) and B31 (580 mg/kg at 2 feet bgs). The lateral extent of lead-impacted soil is adequately characterized to the north by soil boring B28, to the south by Boring B31, and to the west by Boring B27, and to the east by Boring B22. The extent will be further verified through confirmation soil sampling to be performed during grading activities and as part of the site redevelopment. The origin of the lead-impacted soil is not known, but is presumed to be related to historical site activities. The presence of lead impacted soil identified within the eastern portion of the 2820 Broadway property warrants removal and/or mitigation measures. The impacts will be addressed as set forth in the Soil and Groundwater Management Plan prepared for this site.

Elevated concentrations of petroleum hydrocarbons were also detected in soil samples obtained from the eastern portion of the property. Hydrocarbon affected soil in the eastern portion of the site consists predominantly of hydrocarbons within the diesel to oil range. The maximum concentrations of petroleum hydrocarbons within the diesel (680 mg/kg) and oil range (3,100 mg/kg) were detected in the soil sample obtained from Boring B21 at a depth of 3 feet bgs. The soil sample from Boring B21 at a depth of 3 feet bgs contained TPHg at a concentration of 40 mg/kg. Based on the analytical results of Borings B27, B28, B29, and B30, the vertical extent of TPHd and TPHo impacted soil is limited to the upper 4 feet bgs. The lateral extent of shallow, hydrocarbon affected soil is adequately characterized and presumed to be present in shallow soil throughout the eastern portion of the property.

The maximum concentrations of TPHg in soil were detected in soil samples obtained from soil boring B28 at 15 feet bgs (1,570 mg/kg) and Boring B29 at 10 feet bgs (864 mg/kg). TPHo was not detected in either of these soil samples. This finding suggests the possibility that the presence of TPHg in deeper soil may be related to petroleum hydrocarbons identified offsite to the south of the property. It should be noted that the concentrations of TPHg, TPHd, and TPHo detected in soil are below the ESLs for direct contact with soil under both commercial/industrial land uses and for construction worker exposures. The detected presence of petroleum hydrocarbons in soil in this portion of the site warrants appropriate planning, field monitoring, segregation and appropriate disposal of hydrocarbon affected soil encountered during site construction and redevelopment activities, all of which will be performed in compliance with the approved Revised Soil and Groundwater Management Plan, which has been provided under separate cover.

TCE was detected in one soil sample (Boring B19 at a depth of 16 feet bgs) collected from the 2820 Broadway property at a concentration of 0.016 mg/kg. Boring B19 was advanced along the southern portion of the 2820 Broadway property line. The presence of TCE at this location and the absence of TCE in all other soil samples analyzed at this property suggests that TCE is related to an offsite source.

Benzene was detected in four soil samples collected from two soil borings advanced on the 2820 Broadway property. Specifically, benzene was detected in Boring B27 at a depth of 15 feet bgs at a concentration of 0.0316 mg/kg and in Boring B29 at depths of 10, 15, and 20 feet bgs at concentrations ranging from 0.296 to 0.937 mg/kg, which is significantly below the direct exposure ESL for benzene of 24.0 mg/kg. The

presence of benzene in soil samples obtained from Boring B29 could suggest the possibility that some benzene impacts to groundwater in this area may be related to an onsite source as well as an offsite source(s). However, given that the concentrations of benzene in soil are orders of magnitude below the ESL, it is also likely that a potential onsite source of benzene in groundwater (if any) is not the sole source of benzene in groundwater,

While several VOCs were detected in soil samples collected on the 2820 Broadway property, none was detected at concentrations in excess of the ESLs for direct contact with soil under either the commercial/industrial land use or for construction worker exposures. This finding indicates that direct contact with soil containing these constituents (including benzene and TCE) does not represent a significant health risk to site construction workers or future site workers that may come into contact with soil. Additionally, no tenant will have contact with soil because the impacted soil will be excavated or it will be capped with buildings and hardscaping.

Groundwater

Based on the results of the fluid-level monitoring performed on July 19, 2016 and August 2, 2016, the groundwater flow direction beneath the 2820 Broadway property ranges from the west to southwest. However, it should be noted that the groundwater flow direction in the general vicinity of the site is reportedly variable. Historical groundwater monitoring and sampling performed at the former Volkswagen Automobile Dealership located at 2750 Broadway, across 28th Street and south of the property, reported the groundwater flow direction to be oriented to the west to northwest. Based on these observations, the groundwater flow direction appears to be variable. The data generated to date is insufficient to determine whether the apparent variations in the inferred groundwater flow direction are related to seasonal fluctuations or the presence of groundwater within unconfined and/or semi-confined groundwater bearing intervals. The dissolved TPHg and TCE plume geometry appears to be a good indicator of average historical flow direction, which appears to be to the east-northeast on the 2820 Broadway property.

Within the eastern portion of the property, VOCs detected in groundwater at concentrations in excess of ESLs include aromatic hydrocarbons (e.g., benzene) and chlorinated compounds (e.g., TCE). The highest concentration of TCE detected in Monitoring Wells MW-1, MW-2, and MW-3 installed as a component of this investigation (116 µg/L) was observed in MW-3, located within the eastern-most portion of the property. It should be noted that benzene was not detected in the groundwater sample obtained from Monitoring Well MW-3 on July 19, 2016. The concentrations of benzene detected in groundwater samples obtained from Monitoring Wells MW-1 and MW-2 on July 19, 2016 were 696 and 555 µg/L, respectively. The presence of the highest concentration of TCE in upgradient Monitoring Well MW-3 suggests that TCE may be associated with an offsite source located to the east and/or south.

The VOCs detected in groundwater may constitute a vapor intrusion threat to future building occupants. The nature and extent of the potential vapor intrusion threat is influenced by the concentration, depth to groundwater, and proposed building construction details. Mitigation measures for the potential vapor intrusion threat are provided in the Revised Soil and Groundwater Management Plan, provided under separate cover.

2855 Broadway (APN 9-686-3)

Soil

The results of this and previous environmental assessment activities conducted on the 2855 Broadway property indicate the presence of relatively low concentrations of petroleum hydrocarbons in three of fifteen soil samples analyzed. Soil samples containing detected concentrations of petroleum hydrocarbons include Borings SB3 at 12 feet bgs (TPHd and TPHo concentrations of 4.7 and 56 mg/kg, respectively), B15 at 8 feet bgs ((TPHg, TPHd, and TPHo concentrations of 12, 290 and 590 mg/kg, respectively), and Boring B15 at 12 feet bgs (TPHg and TPHd concentrations of 1.3 and 1.2 mg/kg, respectively). The concentrations of petroleum hydrocarbons detected in soil are not suggestive of a significant release of petroleum hydrocarbons at the 2855 Broadway property.

Only two VOCs (naphthalene and carbon tetrachloride) were detected in more than one of the twenty-four soil samples analyzed during this and previous site investigation activities. Naphthalene was detected in soil samples obtained from Boring B15 at depths of 8 and 12 feet bgs at concentrations of 0.150 and 0.0056 mg/kg, respectively. Carbon tetrachloride was detected in soil samples obtained from Boring B16 at depths of 16, 20, 24, and 28 feet bgs, Boring B25 at depths of 20 and 25 feet bgs, and Boring B26 at a depth of 25 feet bgs. Carbon tetrachloride was detected in soil at concentrations ranging from 0.0089 to 0.0237 mg/kg, with the maximum concentrations detected in Boring B25 at depths to 20 and 25 feet bgs, respectively. The absence of detected concentrations of carbon tetrachloride in shallow soil samples and the presence of carbon tetrachloride in soil samples obtained near or below the saturated zone, suggests that this compound is present as a result of migration from an offsite source.

The concentrations of TPHg, TPHd, TPHo, and VOCs detected in soil are below the ESLs for direct contact with soil under both commercial/industrial land uses and for construction worker exposures. Therefore, the presence of these constituents in soil does not represent a significant health risk to site construction workers that may come into contact with soil.

Nickel was detected in two soil samples (Boring B16 at 8 and 16 feet bgs) at concentrations of 100 and 95 mg/kg, respectively. The concentrations of nickel in these samples slightly exceeds the ESL for direct contact with soil for construction worker exposures. Given that the proposed construction and site development activities will result in excavation of the entire property to a maximum depth of approximately 28 feet below grade, the presence of nickel in soil does not represent a significant risk to site construction workers that may come into contact with soil.

Based on the nature and limited extent of soil impacts identified on this property, the presence of these constituents in soil does not warrant specific removal actions designed exclusively to remove the mass or volume of impacted soil.

Groundwater

Based on the results of the fluid-level monitoring performed on July 19, 2016 and August 2, 2016, the groundwater flow direction beneath the 2855 Broadway property is oriented toward the southeast. It should be noted that the determination of the groundwater flow direction for the 2855 Broadway property is influenced by the significantly lower equilibrated groundwater elevation observed in Monitoring Well MW-6 as compared to Monitoring Wells MW-4 and MW-5. The groundwater elevations on the 2855 Broadway property are approximately 2 to 5 feet higher than the groundwater elevations on the 2820 Broadway property.

VOCs detected in groundwater at concentrations in excess of ESLs is limited to carbon tetrachloride. The highest concentration of carbon tetrachloride detected in Monitoring Wells MW-4, MW-5, and MW-6 installed as a component of this investigation (57.4 µg/L) was observed in Monitoring Well MW-5, located within the western portion of the property. Carbon tetrachloride was not detected in Monitoring Well MW-4 located on the northern portion of the property. PCE and TCE were detected in Monitoring Well MW-4 at concentrations of 1.5 and 5.7 µg/L, respectively. The presence of PCE and TCE in Monitoring Well MW-4 and carbon tetrachloride in Monitoring Well MW-5 and MW-6 suggest that groundwater beneath the property has been impacted by an offsite source or sources located to the west and/or northwest.

The VOCs detected in groundwater may constitute a vapor intrusion threat to future building occupants. The nature and extent of the potential vapor intrusion threat is influenced by the concentration, depth to groundwater, and proposed building construction details. Recommendations associated with mitigation measures for the potential vapor intrusion threat are provided in the Revised Soil and Groundwater Management Plan, provided under separate cover.

5.0 RECOMMENDATIONS

The environmental assessment results presented in this report demonstrate that the objectives of the investigation have been met as follows:

- Due to the identification of limited benzene impacts in soil, the benzene impact in the vicinity of Boring B21, in the eastern portion of 2820 Broadway, may be partially attributable to an onsite source (along with offsite sources);
- Results confirmed the TCE reported in the grab-groundwater samples at Borings B3, B20, B21, B22, and B23, in the eastern portion of 2820 Broadway, is related to the TCE impacts originating offsite to the south of the property;
- Results indicate the extent of metals, petroleum hydrocarbons, identified in shallow soil at boring B21 extends further to the south and southeast of Boring B2, but is limited to shallow soil (less than 3 feet bgs) on the eastern portion of 2820 Broadway;
- Results indicate carbon tetrachloride detected in grab-groundwater sample at Boring B11, on the south portion of 2855 Broadway, is from an offsite;
- Results for metals analysis for soil and groundwater at 2855 Broadway were obtained for planning of excavation and dewatering necessary for future installation of a subterranean garage; and
- Groundwater flow direction and gradient has been further evaluated.

The environmental assessment data generated to date is sufficient to identify the pertinent chemicals of potential concern and potential exposure pathways that warrant management in light of the planned construction and redevelopment of the properties. Therefore, no additional assessment is needed to identify appropriate soil and groundwater management measures for the proposed site construction and redevelopment activities for either the 2820 Broadway or 2855 Broadway properties. It should be noted that soil beneath the eastern portion of 2820 Broadway property is impacted by petroleum hydrocarbons and lead that will require removal and disposal in accordance with an approved Revised Soil and Groundwater Management Plan, and all applicable standards and regulations. ATC recommends that soil disturbed during redevelopment and impacted with lead in excess of 160 mg/kg and petroleum hydrocarbons be removed in conjunction with the planned redevelopment activities.

Based on the findings of the environmental assessment activities completed to date, ATC has prepared and submitted a Revised *Soil and Groundwater Management Plan*, dated December 7, 2016. Among other elements, the soil and groundwater management plan outlines general health and safety measures to be employed during future construction activities, defines specific measures for soil and ambient air monitoring during site preparation and soil excavation activities, describes measures for management and disposal of soil removed during development in accordance with applicable regulations and decommissioning of existing groundwater monitoring wells that are in conflict with the site redevelopment activities, and identifies specific mitigation measures to mitigate the potential impacts of vapor intrusion into occupied structures and subsurface utilities and features associated with the planned redevelopment of the site.

6.0 CLOSING

Please contact Gabe Stivala at (925) 223-7123 if you have questions or comments.

Respectfully submitted,
ATC Group Service LLC



Gabe Stivala, P.G.
Senior Project Manager
CA Professional Geologist No.7780



Andrew D. Stuart
National Program Director

Attachments:

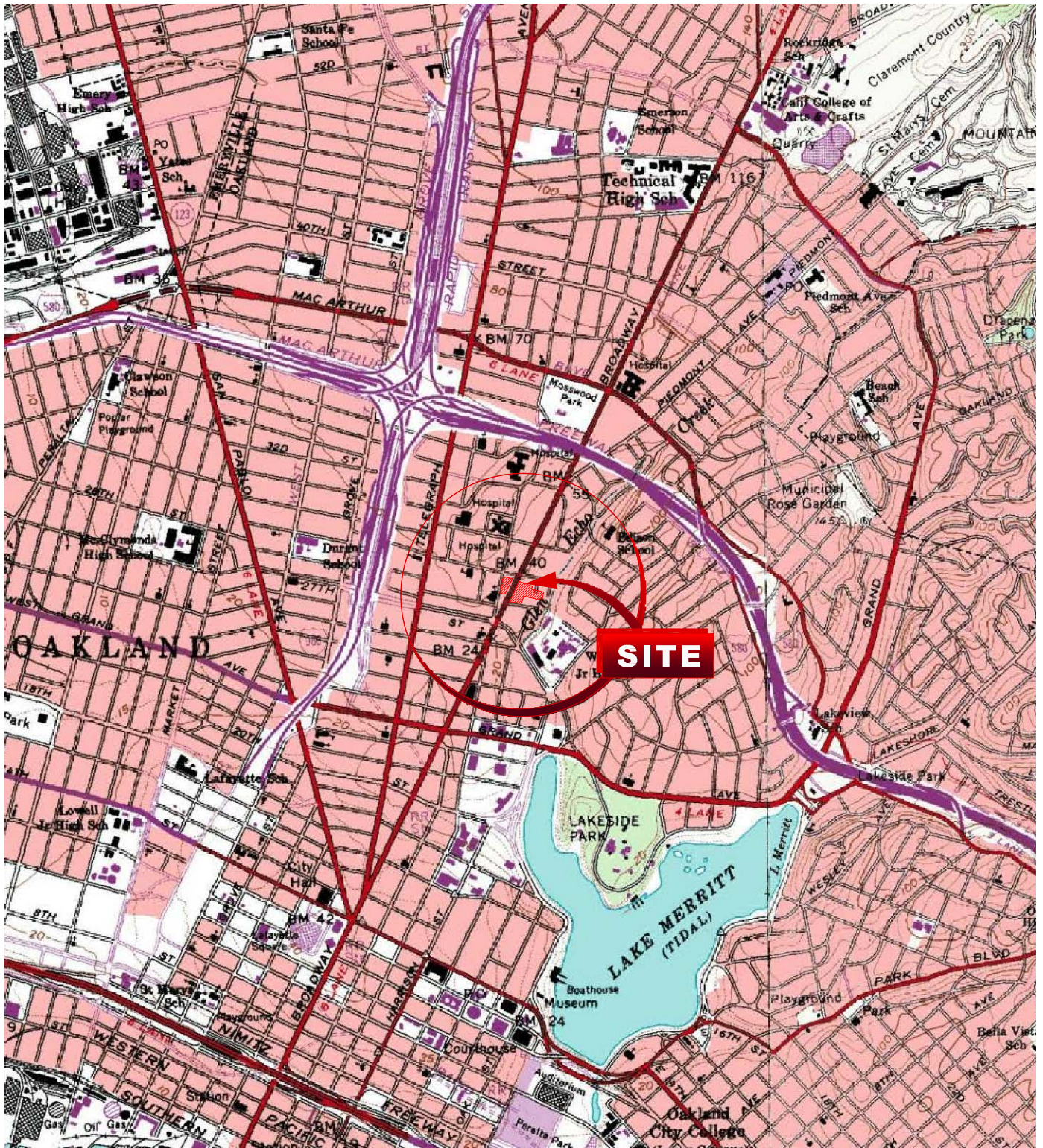
Figure 1 – Site Vicinity Map
Figure 2 – Site Plan
Figure 3 – Cross-Section A-A'
Figure 4 – Cross-Section B-B'
Figure 5 – TPHg, TPHd, TPHo, and Lead in Shallow Soil
Figure 6 – Groundwater Potentiometric Map - July 19, 2016
Figure 7 – Groundwater Potentiometric Map - August 2, 2016
Figure 8 – Groundwater IsoConcentration Map – Benzene and TPHg
Figure 9 – Groundwater IsoConcentration Map – TCE and Carbon Tetrachloride

Table 1 – Well Construction Details
Table 2 – Summary of Soil Laboratory Analytical Data - Organics
Table 3 – Summary of Soil Laboratory Analytical Data – Metals
Table 5 – Summary of Groundwater Laboratory Analytical Data - Organics
Table 6 – Summary of Groundwater Laboratory Analytical Data - Metals

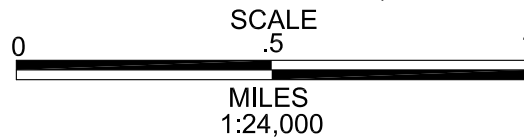
Attachment A – Alameda County Drilling Permits
Attachment B – Boring Logs
Attachment C – Monitoring Well Development Logs
Attachment D – Monitoring Well Sampling Logs
Attachment E - Laboratory Analytical Reports and Chain Of Custody Documents

cc Peter Solar, Alliance
Elizabeth Mack, Locke Lord
Geotracker upload
Alameda County EH FTP upload

FIGURES



OAKLAND WEST, CALIFORNIA QUADRANGLE (PROVISIONAL EDITION 1980)



SITE VICINITY MAP

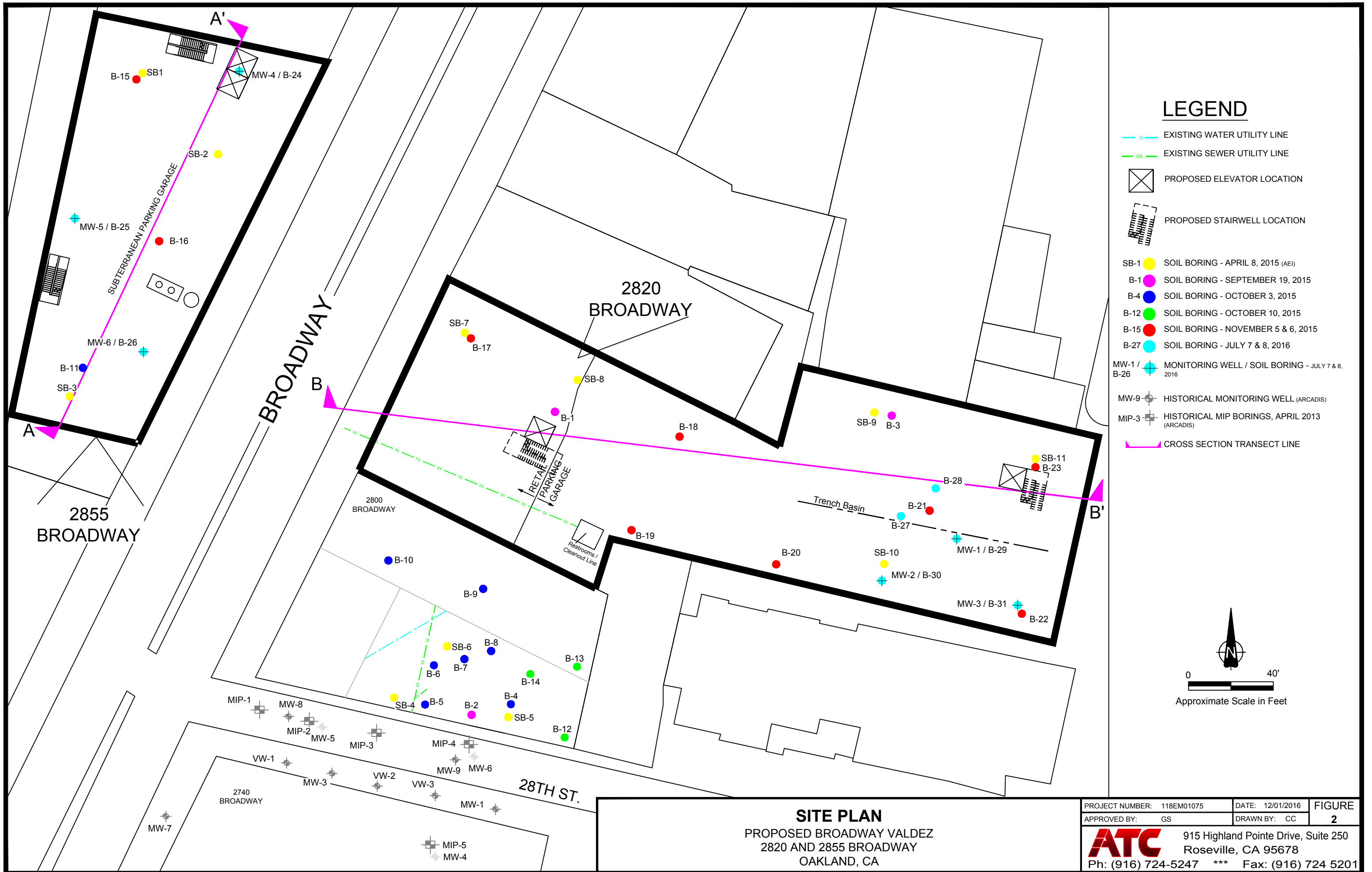
PROPOSED BROADWAY VALDEZ
2800, 2820, AND 2855 BROADWAY
OAKLAND, CALIFORNIA

PROJECT NUMBER: 118EM01075	DATE: 9/16/16	FIGURE
REVIEW BY: G. STIVALA	DRAWN BY: DAW	1



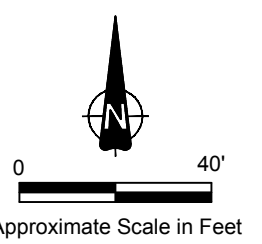
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Roseville, California 95678

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LEGEND

- w EXISTING WATER UTILITY LINE
- ss EXISTING SEWER UTILITY LINE
- PROPOSED ELEVATOR LOCATION
- PROPOSED STAIRWELL LOCATION
- SB-1 ● SOIL BORING - APRIL 8, 2015 (AEI)
- B-1 ● SOIL BORING - SEPTEMBER 19, 2015
- B-4 ● SOIL BORING - OCTOBER 3, 2015
- B-12 ● SOIL BORING - OCTOBER 10, 2015
- B-15 ● SOIL BORING - NOVEMBER 5 & 6, 2015
- B-27 ● SOIL BORING - JULY 7 & 8, 2016
- MW-1 / B-26 MONITORING WELL / SOIL BORING - JULY 7 & 8, 2016
- MW-9 HISTORICAL MONITORING WELL (ARCADIS)
- MIP-3 HISTORICAL MIP BORINGS, APRIL 2013 (ARCADIS)
- CROSS SECTION TRANSECT LINE



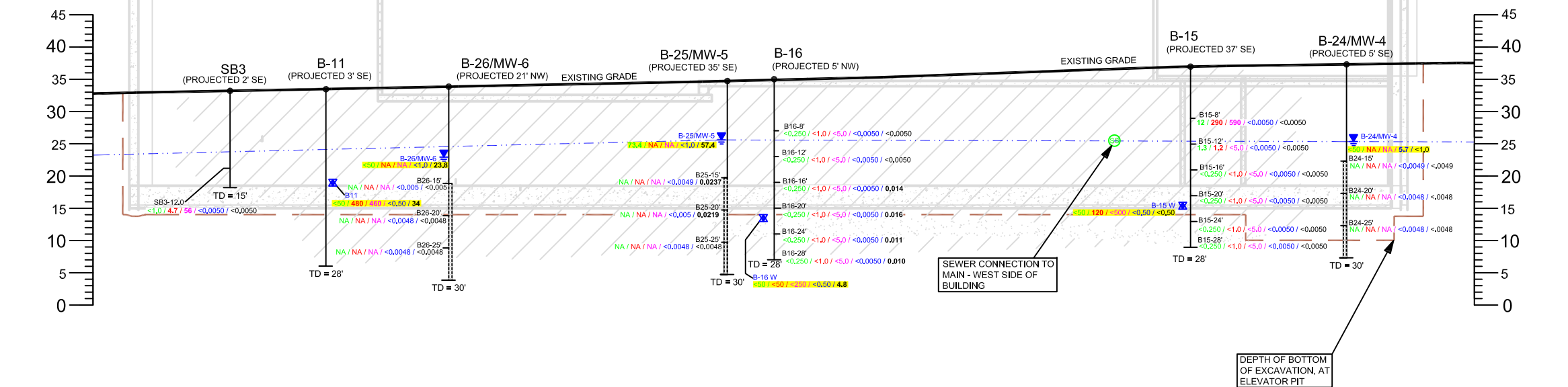
SITE PLAN
 PROPOSED BROADWAY VALDEZ
 2820 AND 2855 BROADWAY
 OAKLAND, CA

PROJECT NUMBER: 118EM01075	DATE: 12/01/2016	FIGURE
APPROVED BY: GS	DRAWN BY: CC	2

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A
SOUTH
FEET AMSL

A'
NORTH
FEET AMSL



LEGEND

	TOP OF BORING		APPROXIMATE EXISTING GRADE
	SOIL SAMPLE ID AND LOCATION		APPROXIMATE DEPTH TO WATER NOTED IN BORING LOG
	SCREENED INTERVALS		DEPTH TO WATER GAUGED AUGUST 2, 2016
	TPHg / TPHd / TPHo / TCE / CARBON TETRACHLORIDE - SOIL SAMPLE RESULTS (mg/kg).	ND=	NOT DETECTED ABOVE LABORATORY REPORTING LIMIT
	TPHg / TPHd / TPHo / TCE / CARBON TETRACHLORIDE - GROUNDWATER SAMPLE RESULTS (ug/L).	NA=	NOT ANALYZED
	SAND WITH CLAY (SP-SC), SILTY SAND (SM), CLAYEY SAND (SC) COARSE GRAINED SOILS: SAND (SP/SW).	TD=	TOTAL DEPTH EXPLORED AT EACH BORING LOCATION
	FINE GRAINED SOILS: SILT (ML), CLAY (CL)	(mg/kg) =	MILLIGRAMS PER KILOGRAMS
	APPROXIMATE EXTENT OF EXCAVATION FOR LAND DEVELOPMENT	(ug/L) =	MICROGRAMS PER LITER

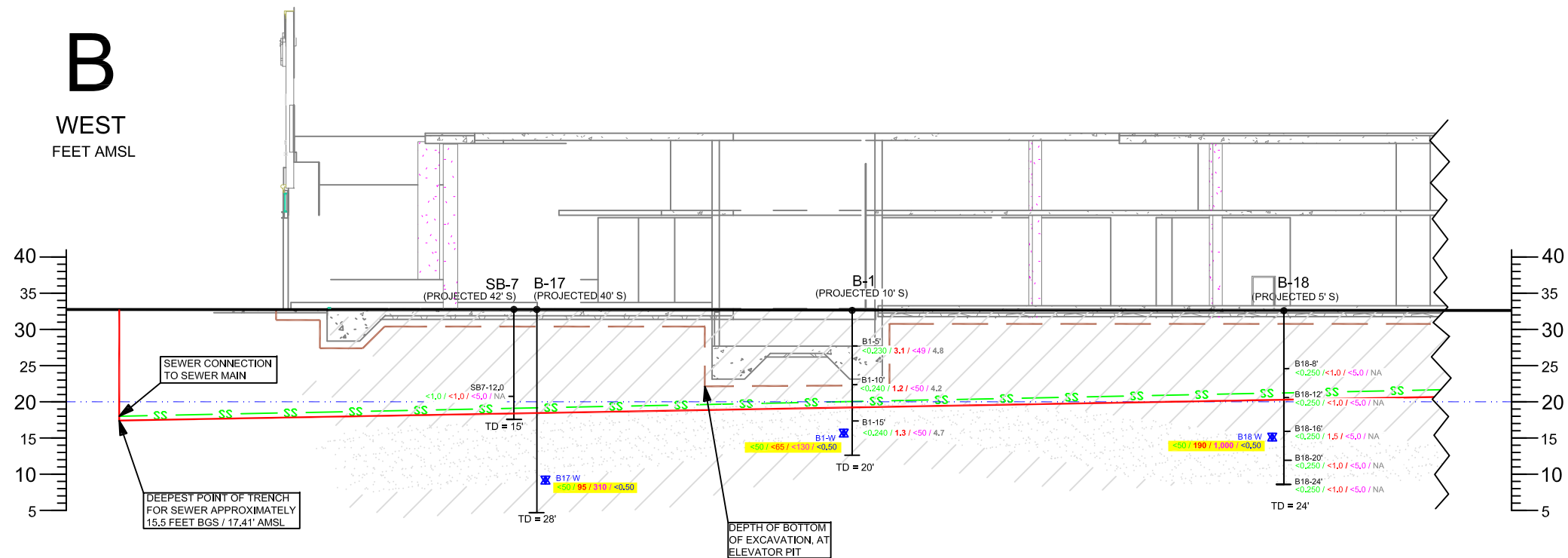


CROSS-SECTION A-A' WITH PROJECTED STRATIGRAPHY AND PROPOSED DEVELOPMENT PLANS
ALLIANCE REALTY
2855 BROADWAY
OAKLAND, CALIFORNIA

PROJECT NUMBER: 118EM01075	DATE: 12/05/16	FIGURE
APPROVED BY: GS	DRAWN BY: CC	3
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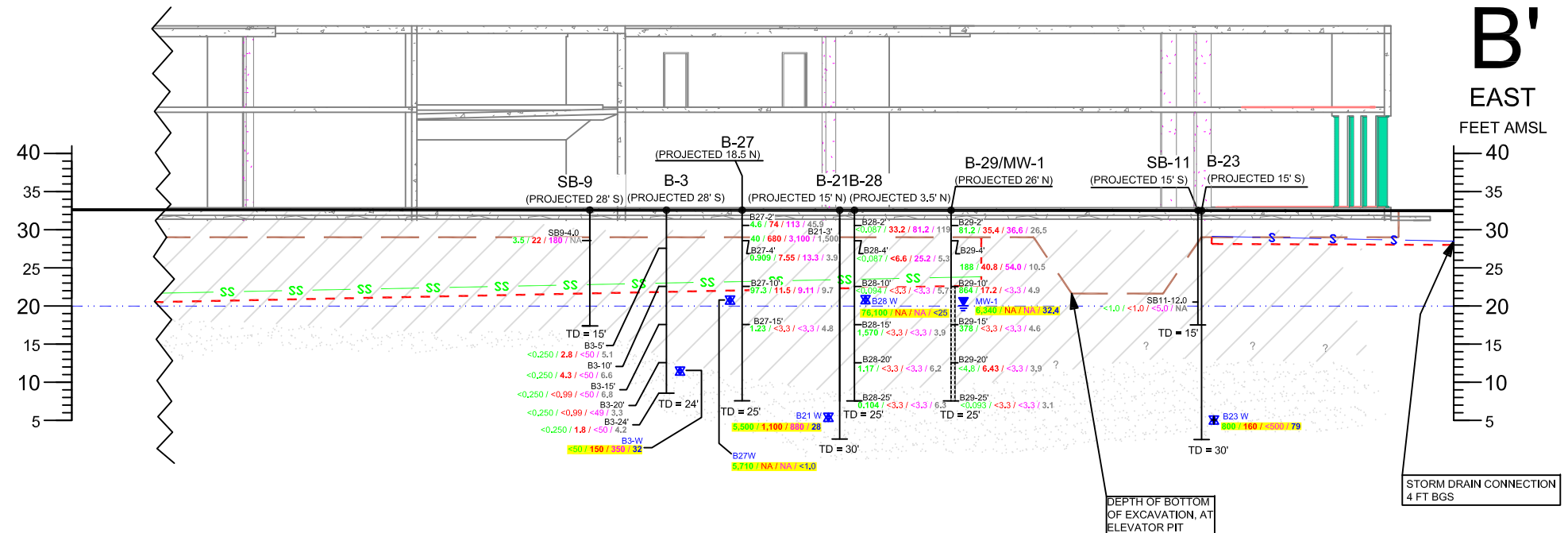
B

WEST
FEET AMSL



B'

EAST
FEET AMSL



LEGEND

- TOP OF BORING
- SOIL SAMPLE ID AND LOCATION
- SCREENED INTERVALS
- <0.230 / 3.1 / <49 / 4.8 TPHg / TPHd / TPHo / LEAD - SOIL SAMPLE RESULTS (mg/kg).
- <50 / 95 / 118 / <0.50 TPHg / TPHd / TPHo / TCE - GROUNDWATER SAMPLE RESULTS (ug/L).
- SAND WITH CLAY (SP-SC), SILTY SAND (SM), CLAYEY SAND (SC) COARSE GRAINED SOILS: SAND (SP/SW).
- FINE GRAINED SOILS: SILT (ML), CLAY (CL)
- APPROXIMATE EXTENT OF EXCAVATION FOR LAND DEVELOPMENT
- APPROXIMATE DEEPEST EXTENT OF EXCAVATION FOR SEWER INSTALLATION TRENCH
- PROPOSED SEWER LOCATION
- APPROXIMATE WATER TABLE
- APPROXIMATE EXISTING GRADE
- DEPTH TO WATER GAUGED JULY 19, 2016
- GROUNDWATER SAMPLE LOCATION
- ND= NOT DETECTED ABOVE LABORATORY REPORTING LIMIT
- TD= TOTAL DEPTH EXPLORED AT EACH BORING LOCATION
- (mg/kg) = MILLIGRAMS PER KILOGRAMS
- (ug/L) = MICROGRAMS PER LITER



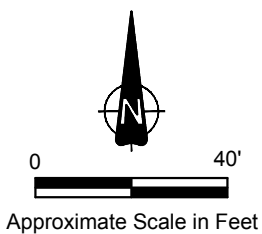
CROSS-SECTION B-B' - TPHg, TPHd, TPHo, LEAD AND TCE RESULTS WITH PROJECTED STRATIGRAPHY AND PROPOSED DEVELOPMENT PLANS

ALLIANCE REALTY
2820 BROADWAY
OAKLAND, CALIFORNIA






















PROJECT NUMBER: 118EM01075 DATE: 12/05/16
APPROVED BY: GS DRAWN BY: CC

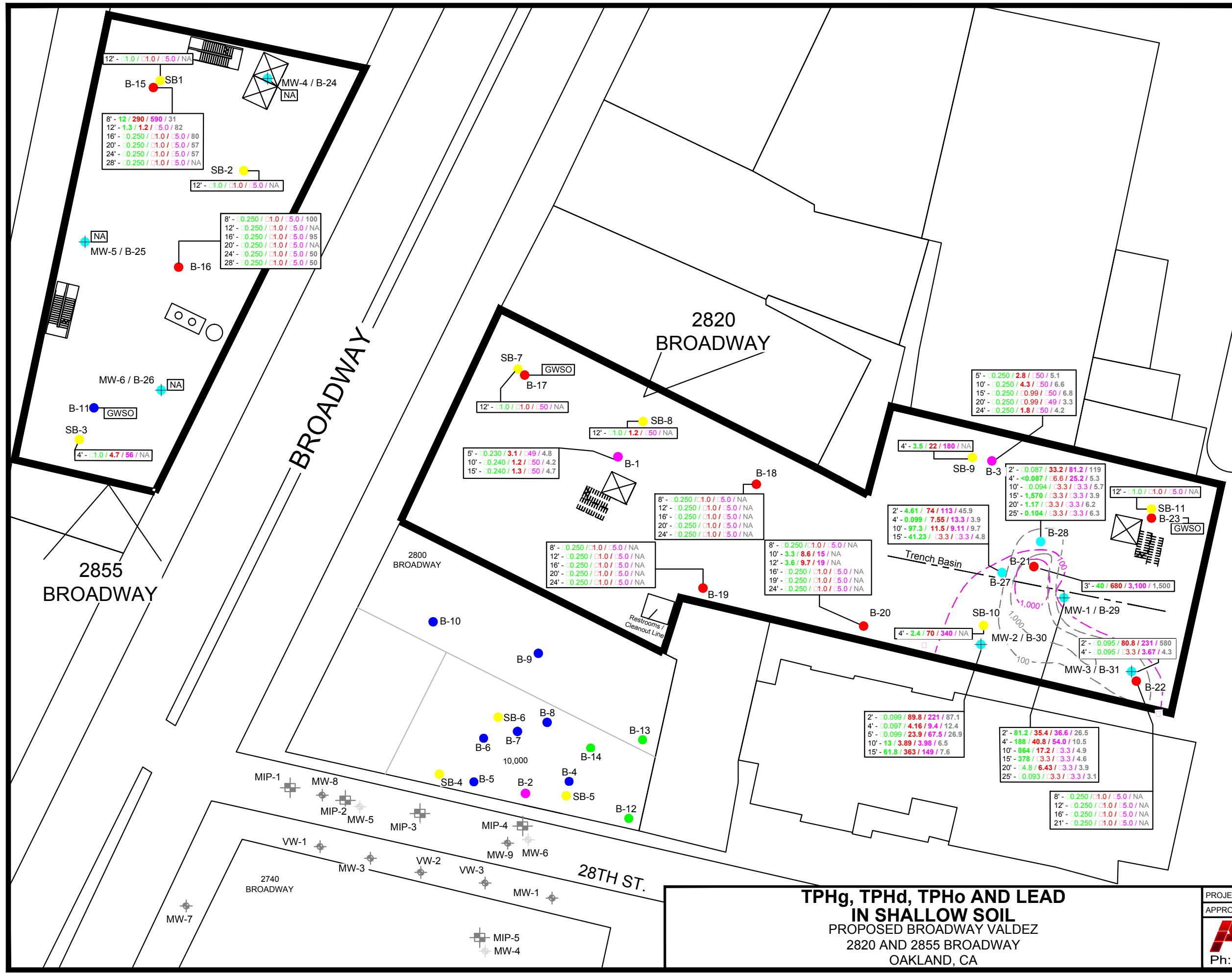
FIGURE
4

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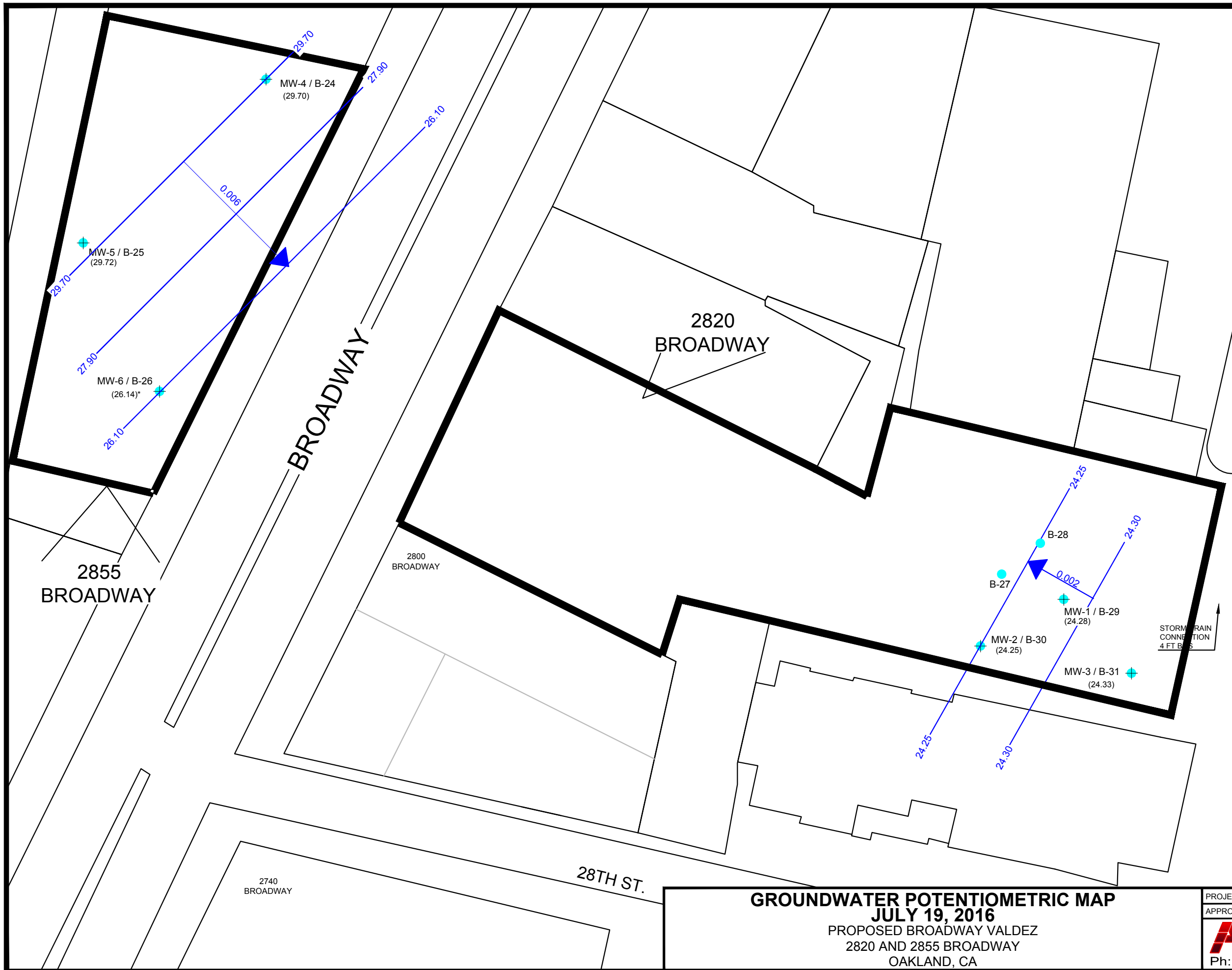
LEGEND

-  PROPOSED ELEVATOR LOCATION
-  PROPOSED STAIRWELL LOCATION
- SB-1  SOIL BORING - APRIL 8, 2015 (AEI)
- B-1  SOIL BORING - SEPTEMBER 19, 2015
- B-4  SOIL BORING - OCTOBER 3, 2015
- B-12  SOIL BORING - OCTOBER 10, 2015
- B-15  SOIL BORING - NOVEMBER 5 & 6, 2015
- B-27  SOIL BORING - JULY 7 & 8, 2016
- MW-1 / B-26  MONITORING WELL / SOIL BORING - JULY 7 & 8, 2016
- MW-9  HISTORICAL MONITORING WELL (ARCADIS)
- MIP-3  HISTORICAL MIP BORINGS, APRIL 2013 (ARCADIS)
-  100 TPHo CONTOUR LINE (mg/lg)
-  100 LEAD CONTOUR LINE (mg/lg)
- 8'  SAMPLE DEPTH
-  TPHg / TPHd / TPHo / LEAD CONCENTRATIONS (mg/g).
- GWSO  GROUNDWATER SAMPLE ONLY. NO SOIL SAMPLE COLLECTED
- NA  NOT ANALYZED. LOCATIONS WITH ONLY NA LISTED INFER NA FOR ALL SAMPLES AT THAT LOCATION
- TPHg  TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPHd  TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- TPHo  TOTAL PETROLEUM HYDROCARBONS AS OIL
- mg/lg  MILLIGRAMS PER KILOGRAM



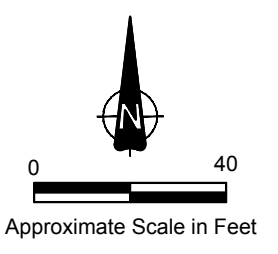
TPHg, TPHd, TPHo AND LEAD IN SHALLOW SOIL PROPOSED BROADWAY VALDEZ 2820 AND 2855 BROADWAY OAKLAND, CA

PROJECT NUMBER: 118EM01075	DATE: 12/01/16	FIGURE
APPROVED BY: GS	DRAWN BY: CC	5
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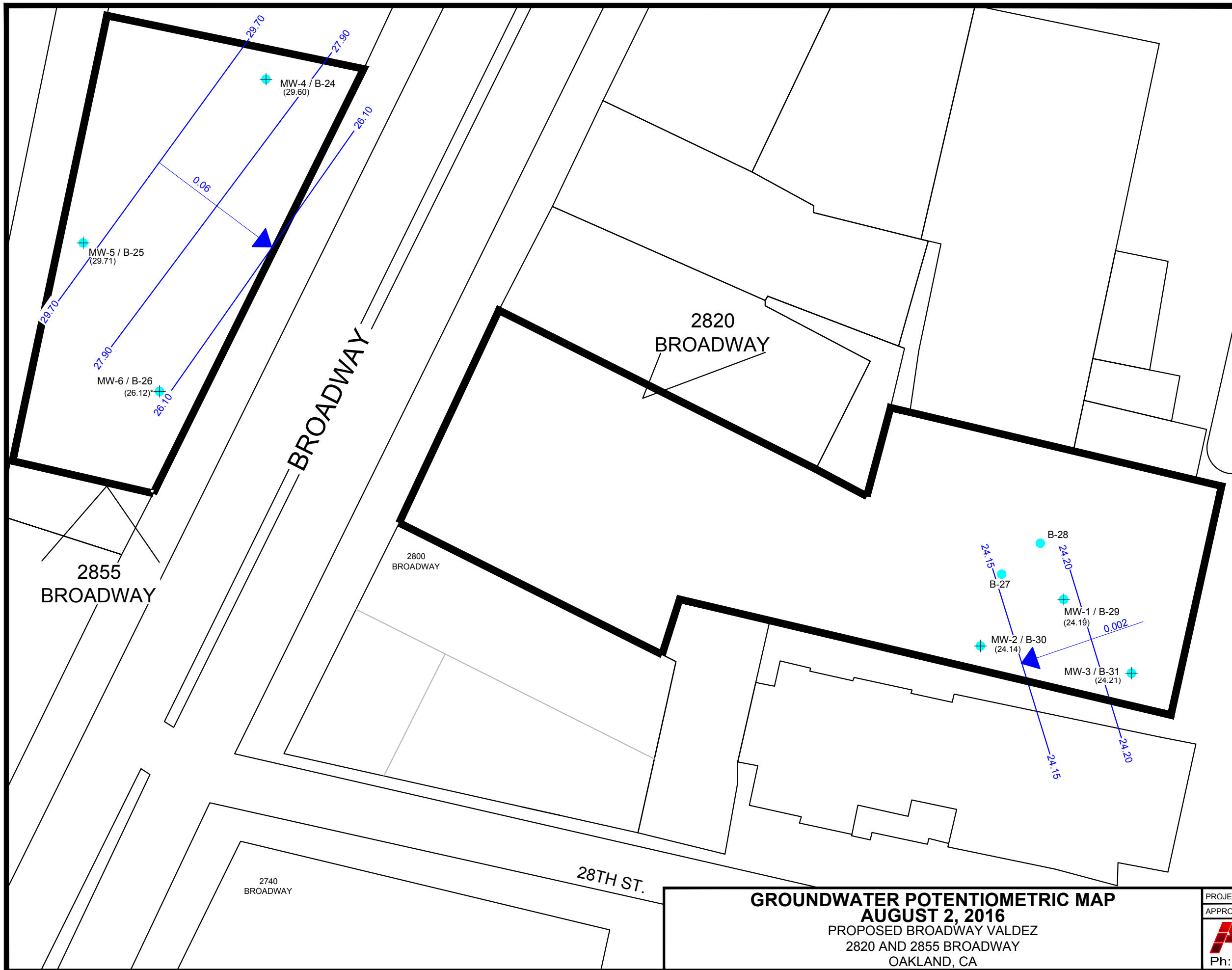
LEGEND

- B-28 ● SOIL BORING LOCATION- JULY 7 & 8, 2016
- MW-1 / B-29 ⊕ MONITORING WELL / SOIL BORING JULY 7 & 8, 2016
- (24.25) — GROUNDWATER ELEVATION COLLECTED JULY 19, 2016 (feet AMSL).
- 25.0 — GENERALIZED GROUNDWATER ELEVATION CONTOUR LINE AND ELEVATION (feet AMSL).
- 0.002 — GROUNDWATER FLOW DIRECTION AND GRADIENT
- AMSL — ABOVE MEAN SEA LEVEL
- (26.14)* — NOT USED FOR GROUNDWATER ELEVATION CONTOURING



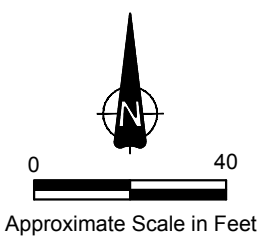
GROUNDWATER POTENTIOMETRIC MAP
JULY 19, 2016
 PROPOSED BROADWAY VALDEZ
 2820 AND 2855 BROADWAY
 OAKLAND, CA

PROJECT NUMBER: 118EM01075	DATE: 12/28/2016	FIGURE
APPROVED BY: GS	DRAWN BY: CC	6
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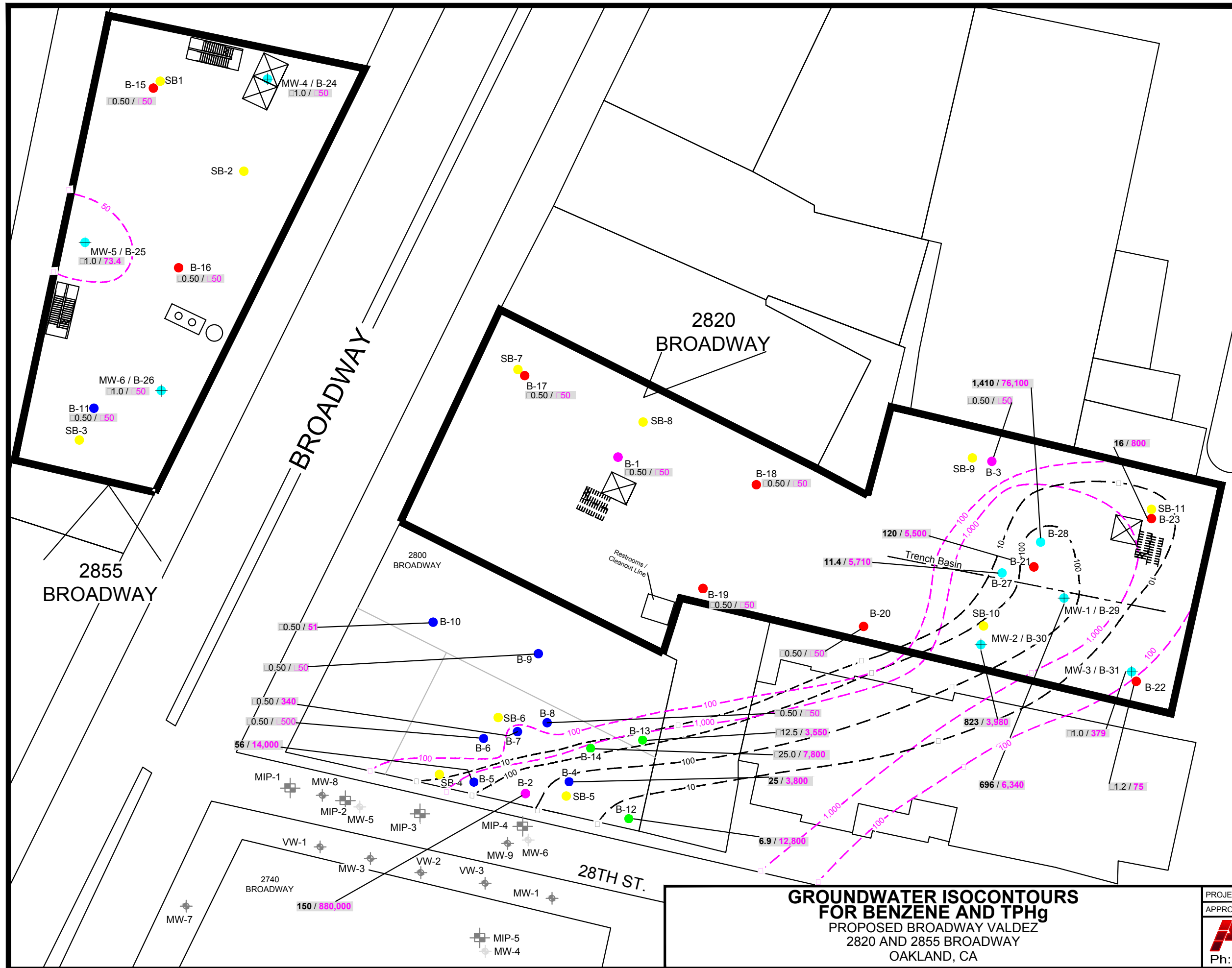
LEGEND

- B-28 ● SOIL BORING LOCATION- JULY 7 & 8, 2016
- MW-1 / B-29 ⊕ MONITORING WELL / SOIL BORING JULY 7 & 8, 2016
- (24.25) — GROUNDWATER ELEVATION COLLECTED AUGUST 2, 2016 (feet AMSL).
- 25.0 — GENERALIZED GROUNDWATER ELEVATION CONTOUR LINE AND ELEVATION (feet AMSL).
- 0.002 — GROUNDWATER FLOW DIRECTION AND GRADIENT LINE
- AMSL — ABOVE MEAN SEA LEVEL
- (26.12)* — NOT USED FOR GROUNDWATER ELEVATION CONTOURING



GROUNDWATER POTENTIOMETRIC MAP
AUGUST 2, 2016
 PROPOSED BROADWAY VALDEZ
 2820 AND 2855 BROADWAY
 OAKLAND, CA

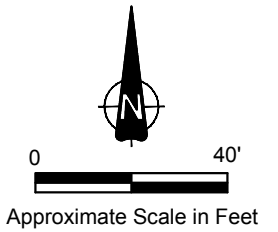
PROJECT NUMBER: 118EM01075	DATE: 12/28/2016	FIGURE
APPROVED BY: GS	DRAWN BY: CC	7
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LEGEND

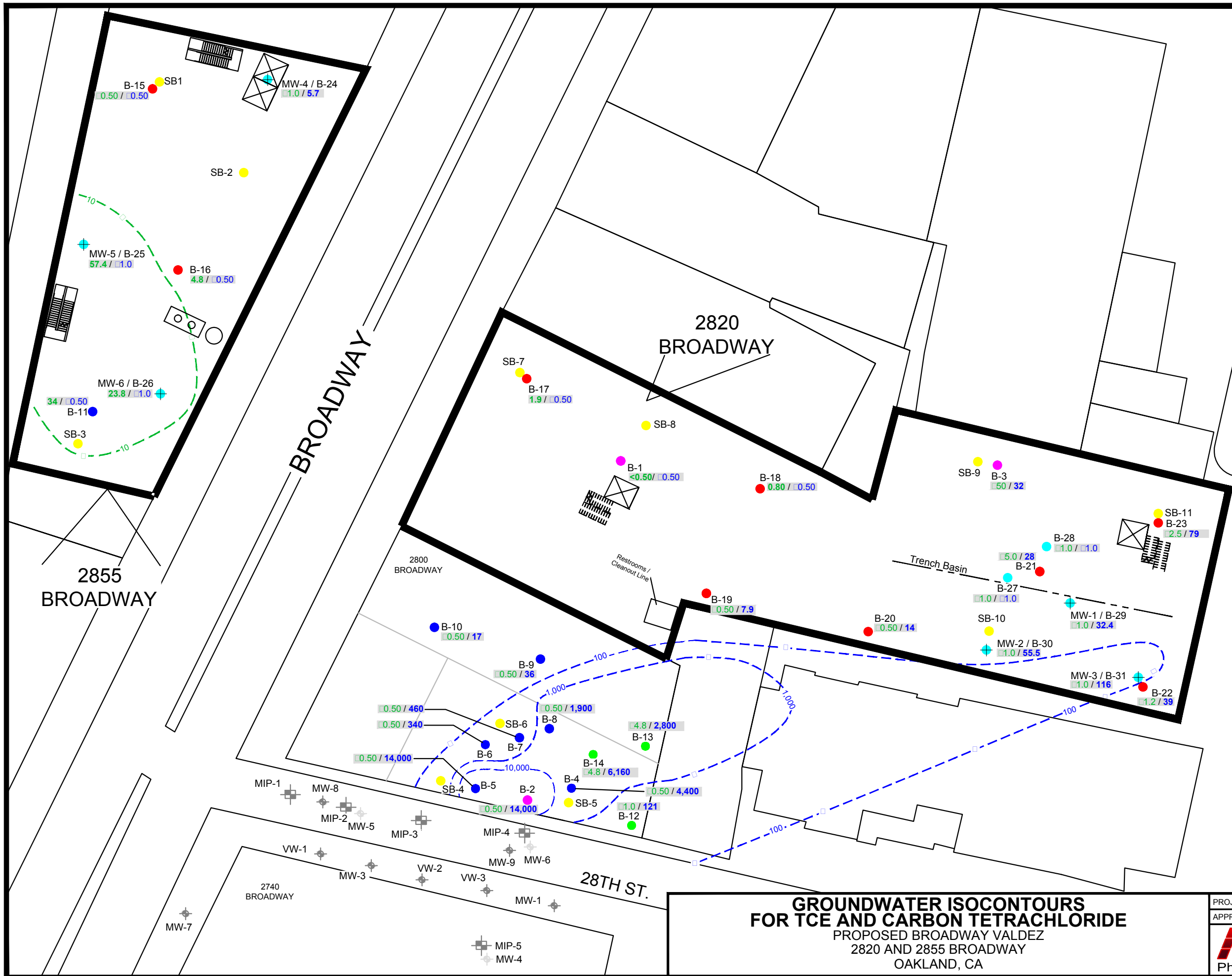
- PROPOSED ELEVATOR LOCATION
- PROPOSED STAIRWELL LOCATION
- SB-1 SOIL BORING - APRIL 8, 2015 (AEI)
- B-1 SOIL BORING - SEPTEMBER 19, 2015
- B-4 SOIL BORING - OCTOBER 3, 2015
- B-12 SOIL BORING - OCTOBER 10, 2015
- B-15 SOIL BORING - NOVEMBER 5 & 6, 2015
- B-27 SOIL BORING - JULY 7 & 8, 2016
- MW-1 / B-26 MONITORING WELL / SOIL BORING - JULY 7 & 8, 2016
- MW-9 HISTORICAL MONITORING WELL (ARCADIS)
- MIP-3 HISTORICAL MIP BORINGS, APRIL 2013 (ARCADIS)
- 1,000 TPHg ISOCOANTOUR (ug/L).
- 10- BENZENE ISOCOANTOUR (ug/L).
- 1.0 / 50 Benzene / TPHg
- TPHg TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

ALL RESULT PRESENTED IN MICROGRAMS PER LITER (ug/L).
GROUNDWATER SAMPLES WERE NOT COLLECTED AT SB LOCATIONS



**GROUNDWATER ISOCONTOURS
FOR BENZENE AND TPHg**
PROPOSED BROADWAY VALDEZ
2820 AND 2855 BROADWAY
OAKLAND, CA

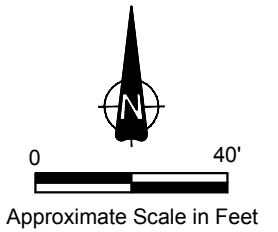
PROJECT NUMBER: 118EM01075	DATE: 12/28/2016	FIGURE
APPROVED BY: GS	DRAWN BY: CC	8
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LEGEND

- PROPOSED ELEVATOR LOCATION
- PROPOSED STAIRWELL LOCATION
- SB-1 SOIL BORING - APRIL 8, 2015 (AEI)
- B-1 SOIL BORING - SEPTEMBER 19, 2015
- B-4 SOIL BORING - OCTOBER 3, 2015
- B-12 SOIL BORING - OCTOBER 10, 2015
- B-15 SOIL BORING - NOVEMBER 5 & 6, 2015
- B-27 SOIL BORING - JULY 7 & 8, 2016
- MW-1 / B-26 MONITORING WELL / SOIL BORING - JULY 7 & 8, 2016
- MW-9 HISTORICAL MONITORING WELL (ARCADIS)
- MIP-3 HISTORICAL MIP BORINGS, APRIL 2013 (ARCADIS)
- 10- CT ISOCONTOUR (ug/L).
- 100- TCE ISOCONTOUR (ug/L).
- 23.8 / 1.0 CT / TCE
- TCE TRICHLOROETHENE
- CT CARBON TETRACHLORIDE

ALL RESULT PRESENTED IN MICROGRAMS PER LITER (ug/L).
GROUNDWATER SAMPLES WERE NOT COLLECTED AT SB LOCATIONS



**GROUNDWATER ISOCONTOURS
FOR TCE AND CARBON TETRACHLORIDE**
PROPOSED BROADWAY VALDEZ
2820 AND 2855 BROADWAY
OAKLAND, CA

PROJECT NUMBER: 118EM01075	DATE: 12/28/2016	FIGURE
APPROVED BY: GS	DRAWN BY: CC	9
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TABLES



TABLE 1
Summary of Soil Laboratory Analytical Data - Organics
 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Sample Depth (ft bgs)	Sample Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	cis-1,2-Dichloroethene (mg/kg)	Trichloroethene (TCE) (mg/kg)	Naphthalene (mg/kg)	Carbon Tetrachloride (mg/kg)	Chloroform (mg/kg)	Other VOCs * (mg/kg)
			SOIL ESLs (mg/kg) ¹													
Direct Exposure Human Health Risk Levels (Table S-1). Any Land Use/ Any Depth Soil Exposure: Construction Worker			2,800	880	32,000	24	4,100	480	2,400	3,700	82	23	350	13	32	NL
2820 Broadway																
SB7-12.0	12	4/8/2015	<1.0	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<MRL
SB8-12.0	12	4/8/2015	<1.0	1.2	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<MRL
SB9-4.0	4	4/8/2015	3.5	22	180	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<MRL
SB10-4.0	4	4/8/2015	2.4	70	340	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<MRL
SB11-12.0	12	4/8/2015	<1.0	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<MRL
B1-5'	5	09/19/15	<0.230	3.1	<49	<0.0046	<0.0046	<0.0046	<0.0092	<0.0046	<0.0046	<0.0046	<0.0092	<0.0046	<0.0046	ND
B1-10'	10	09/19/15	<0.240	1.2	<50	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	ND
B1-15'	15	09/19/15	<0.240	1.3	<50	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	<0.0049	ND
B3-5'	5	09/19/15	<0.250	2.8	<50	<0.0050	<0.0050	<0.0050	<0.0098	<0.0050	<0.0050	<0.0050	<0.0098	<0.0050	<0.0050	ND
B3-10'	10	09/19/15	<0.250	4.3	<50	<0.0049	<0.0049	<0.0049	<0.0099	<0.0049	<0.0049	<0.0049	<0.0099	<0.0049	<0.0049	ND
B3-15'	15	09/19/15	<0.250	<0.99	<50	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	ND
B3-20'	20	09/19/15	<0.250	<0.99	<49	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	ND
B3-24'	24	09/19/15	<0.250	1.8	<50	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	<0.0050	ND
B17	na	11/05/15	Collected groundwater sample only. No soil samples collected.													
B18-8'	8	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B18-12'	12	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B18-16'	16	11/05/15	<0.250	1.5	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B18-20'	20	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B18-24'	24	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B19-8'	8	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B19-12'	12	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B19-16'	16	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.016	<0.0050	<0.0050	<0.0050	ND
B19-20'	20	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B19-24'	24	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B20-8'	8	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B20-10'	10	11/06/15	3.3	8.6	15	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	sec-Butyl benzene - 0.0092
B20-12'	12	11/06/15	3.6	9.7	19	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B20-16'	16	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B20-19'	19	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B20-24'	24	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B21-3'	3	11/06/15	40	680	3,100	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B22-8'	8	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B22-12'	12	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B22-16'	16	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B22-21'	21	11/06/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND



TABLE 1
Summary of Soil Laboratory Analytical Data - Organics
 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Sample Depth (ft bgs)	Sample Date	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Naphthalene	Carbon Tetrachloride	Chloroform	Other VOCs *
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SOIL ESLs (mg/kg) ¹																
Direct Exposure Human Health Risk Levels (Table S-1). Any Land Use/ Any Depth Soil Exposure: Construction Worker			2,800	880	32,000	24	4,100	480	2,400	3,700	82	23	350	13	32	NL
2820 Broadway																
B23	na	11/06/15	Collected groundwater sample only. No soil samples collected.													
B27-2'	2	07/07/16	4.61 [†]	74	113	<0.0044	<0.0044	<0.0044	<0.0088	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	Acetone - 0.213 2-Butanone (MEK) - 0.0383
B27-4'	4	07/07/16	0.909	7.55	13.3	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	Acetone - 0.0833
B27-10'	10	07/07/16	97.3 [†]	11.5	9.11	<0.25	<0.25	<0.25	<0.49	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	ND
B27-15'	15	07/07/16	1.23	<3.3	<3.3	0.0316	<0.0049	0.0067	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	ND
B28-2'	2	07/07/16	<0.087	33.2	81.2	<0.0043	<0.0043	<0.0043	<0.0087	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	ND
B28-4'	4	07/07/16	<0.087	<6.6	25.2	<0.0043	<0.0043	<0.0043	<0.0087	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	ND
B28-10'	10	07/07/16	<0.094	<3.3	<3.3	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	ND
B28-15'	15	07/07/16	1,570 [†]	<3.3	<3.3	<1.2	8.9	6.6	40.1	<1.2	<1.2	<1.2	1.21	<1.2	<1.2	Isopropylbenzene - 1.94 n-Propylbenzene - 2.44 1,2,4-Trimethylbenzene - 11.2 1,3,5-Trimethylbenzene - 3.83
B28-20'	20	07/07/16	1.17	<3.3	<3.3	<0.0045	0.0092	0.0066	0.0423	<0.0045	<0.0045	<0.0045	0.0052	<0.0045	<0.0045	Acetone - 0.0454 1,2,4-Trimethylbenzene - 0.0136
B28-25'	25	07/07/16	0.104	<3.3	<3.3	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	ND
B29-2'	2	07/07/16	81.2 [†]	35.4	36.6	<0.23	<0.23	0.288	0.648	<0.23	<0.23	<0.23	1.68	<0.23	<0.23	n-Butylbenzene - 0.353 Isopropylbenzene - 0.434 n-Propylbenzene - 0.691 1,2,4-Trimethylbenzene - 1.5 1,3,5-Trimethylbenzene - 0.707
B29-4'	4	07/07/16	188 [†]	40.8	54.0	<0.24	<0.24	0.436	0.704	<0.24	<0.24	<0.24	0.486	<0.24	<0.24	n-Butylbenzene - 0.304 Isopropylbenzene - 0.487 n-Propylbenzene - 0.653 1,2,4-Trimethylbenzene - 1.34 1,3,5-Trimethylbenzene - 0.765
B29-10'	10	07/07/16	864 [†]	17.2	<3.3	0.884	<0.56	6.86	18.9	<0.56	<0.56	<0.56	1.0	<0.56	<0.56	Isopropylbenzene - 1.37 n-Propylbenzene - 1.69 1,2,4-Trimethylbenzene - 8.13 1,3,5-Trimethylbenzene - 2.38
B29-15'	15	07/07/16	378 [†]	<3.3	<3.3	0.937	1.62	1.93	8.69	<0.22	<0.22	<0.22	0.226	<0.22	<0.22	Isopropylbenzene - 0.383 n-Propylbenzene - 0.406 1,2,4-Trimethylbenzene - 1.69 1,3,5-Trimethylbenzene - 0.625
B29-20'	20	07/07/16	<4.8	6.43	<3.3	0.296	<0.24	<0.24	<0.48	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	ND
B29-25'	25	07/07/16	<0.093	<3.3	<3.3	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	ND
B30-2'	2	07/08/16	<0.099	89.8	221	<0.005	<0.005	<0.005	<0.0099	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND



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 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Sample Depth (ft bgs)	Sample Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	cis-1,2-Dichloroethene (mg/kg)	Trichloroethene (TCE) (mg/kg)	Naphthalene (mg/kg)	Carbon Tetrachloride (mg/kg)	Chloroform (mg/kg)	Other VOCs * (mg/kg)
SOIL ESLs (mg/kg) ¹																
Direct Exposure Human Health Risk Levels (Table S-1). Any Land Use/ Any Depth Soil Exposure: Construction Worker			2,800	880	32,000	24	4,100	480	2,400	3,700	82	23	350	13	32	NL
2820 Broadway																
B30-4'	4	07/08/16	<0.097	4.16	9.4	<0.0048	<0.0048	<0.0048	<0.0097	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	ND
B30-5'	5	07/08/16	<0.099	23.9	67.5	<0.0049	<0.0049	<0.0049	<0.0099	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	ND
B30-10'	10	07/08/16	13	3.89	3.98	<0.22	<0.22	<0.22	<0.45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	ND
B30-15'	15	07/08/16	61.8	363	149	<0.21	<0.21	<0.21	<0.42	<0.21	<0.21	<0.21	0.244	<0.21	<0.21	sec-Butylbenzene - 0.642 Isopropylbenzene - 0.264
B31-2'	2	07/08/16	<0.095	80.8	231	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	ND
B31-4'	4	07/08/16	<0.095	<3.3	3.67	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	ND
2855 Broadway																
SB1-12.0	12	4/8/2015	<1.0	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
SB2-12.0	12	4/8/2015	<1.0	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
SB3-12.0	12	4/8/2015	<1.0	4.7	56	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B11	na	10/03/15	Collected groundwater sample only. No soil samples collected.													
B15-8'	8	11/05/15	12	290	590	<0.0050	0.0063	0.0097	0.076	<0.0050	<0.0050	<0.0050	0.150	<0.0050	<0.0050	n-Butyl benzene - 0.030 sec-Butyl benzene - 0.016 Isopropylbenzene - 0.011 n-Propyl benzene - 0.017 1,2,4-Trimethylbenzene - 0.120 1,3,5-Trimethylbenzene - 0.047
B15-12'	12	11/05/15	1.3	1.2	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0056	<0.0050	<0.0050	ND
B15-16'	16	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B15-20'	20	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B15-24'	24	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B15-28'	28	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B16-8'	8	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B16-12'	12	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0049	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND
B16-16'	16	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.014	<0.0050	ND
B16-20'	20	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.016	<0.0050	ND
B16-24'	24	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.011	<0.0050	ND
B16-28'	28	11/05/15	<0.250	<1.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.010	0.0076	ND
B24-15'	15	07/05/16	--	--	--	<0.0049	<0.0049	<0.0049	<0.0099	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	ND
B24-20'	20	07/05/16	--	--	--	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	ND
B24-25'	25	07/05/16	--	--	--	<0.0048	<0.0048	<0.0048	<0.0097	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	ND
B25-15'	15	07/06/16	--	--	--	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	0.0237	<0.0049	ND
B25-20'	20	07/06/16	--	--	--	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	0.0219	<0.005	ND
B25-25'	25	07/06/16	--	--	--	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	ND



TABLE 1
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 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Sample Depth (ft bgs)	Sample Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	cis-1,2-Dichloroethene (mg/kg)	Trichloroethene (TCE) (mg/kg)	Naphthalene (mg/kg)	Carbon Tetrachloride (mg/kg)	Chloroform (mg/kg)	Other VOCs * (mg/kg)
SOIL ESLs (mg/kg) ¹																
Direct Exposure Human Health Risk Levels (Table S-1). Any Land Use/ Any Depth Soil Exposure: Construction Worker			2,800	880	32,000	24	4,100	480	2,400	3,700	82	23	350	13	32	NL
2855 Broadway																
B26-15'	15	07/06/16	--	--	--	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
B26-20'	20	07/16/16	--	--	--	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	ND
B26-25'	25	07/06/16	--	--	--	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	0.0089	<0.0048	ND
COMPB24(5-25)	5-25'	07/05/16	<4.2	16.0	<1.3	<0.21	<0.21	<0.21	<0.42	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	ND
COMPB25(5-25)	5-25'	07/05/16	<4.4	13.7	<1.3	<0.22	<0.22	<0.22	<0.44	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	ND
COMPB26(5-25)	5-25'	07/05/16	<4.8	7.29	<1.3	<0.24	<0.24	<0.24	<0.48	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	ND
Definitions/Abbreviations:																
EPA -- Environmental Protection Agency TPHg -- Gasoline Range Organics ([GRO] C5-C12) by EPA 8015 Gas chromatograph (GC) TPHd -- Extractable fuel hydrocarbons ([EFC] C10 - C28) by EPA 8015 GC TPHo -- Extractable fuel hydrocarbons ([EFC] C24 - C36) by EPA 8015 GC mg/kg -- Milligrams per kilogram (equivalent to parts per million [ppm]) Total Xylenes -- Meta-, ortho-, and para-xylenes by EPA Method 8260B MTBE -- Methyl tertiary-butyl ether by EPA Test Method 8260B bgs -- Below Ground Surface ft -- feet -- -- not analyzed † -- Exceeded calibration range Grayed out results represent soil to be excavated								Definitions/Abbreviations: < -- Less than the laboratory reporting limit indicated. ND -- not detected above laboratory method detection limits J -- Estimated value between method detection limit and reporting limit. NL -- Not listed * -- VOCs that are not listed in the ESL table Notes: 1 San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels (ESLs), (ESL Workbook, Interim Final, 22Feb16, Rev3). http://www.swrcb.ca.gov/rwqcb2/water_issues/programs/esl.shtml Viewed June 13, 2016. Soil borings preceded by "SB" (SB-1) were drilled by AEI Results reported above the laboratory reporting limit (RL) are presented in bold font. Results reported above the ESL are highlighted in yellow Date -- Newest results								



TABLE 2
Summary of Soil Laboratory Analytical Data - Metals
 2820 and 2855 Broadway

Sample ID	Depth (ft bgs)	Sample Date	Oakland, CA												
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium ¹	Cobalt	Copper	Nickel	Vanadium	Zinc	Lead	Mercury
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SOIL ESLs (mg/kg) ²															
Direct Exposure Human Health Risk Levels (Table S-1). Any Land Use/ Any Depth Soil Exposure: Construction Worker			140	0.98	3,000	42	43	530,000	28	14,000	86	470	110,000	160	44
2820 Broadway															
B1-5'	5	9/19/2015	<1.5	<3.1	95	0.45	<0.38	23	5.1	9.7	21	22	24	4.8	0.049
B1-10'	10	9/19/2015	<0.33	2.8	120	0.45	<0.083	26	5.1	9.3	38	25	17	4.2	0.031
B1-15'	15	9/19/2015	<0.44	3.9	88	0.28	0.11	22	7.0	12	34	22	28	4.7	<0.0094
B3-5'	5	9/19/2015	<0.32	3.0	95	0.33	<0.081	29	18	10	29	28	20	5.1	0.057
B3-10'	10	9/19/2015	<1.6	4.3	160	0.48	<0.39	42	17	16	56	36	32	6.6	0.034
B3-15'	15	9/19/2015	<1.4	<2.7	100	0.46	<0.34	41	16	22	57	19	55	6.8	0.061
B3-20'	20	9/19/2015	<0.34	6.5	86	0.17	0.33	28	7.9	10	35	34	23	3.3	0.068
B3-24'	24	9/19/2015	1.4	9.6	100	0.28	<0.30	38	11	15	50	36	41	4.2	0.044
B21-3'	3	11/6/2015	45	7.1	470	0.52	<0.25	48	7.7	870	40	27	960	1,500	0.25
B27-2'	2	07/07/16	--	--	--	--	--	--	--	--	--	--	--	45.9	--
B27-4'	4	07/07/16	--	--	--	--	--	--	--	--	--	--	--	3.9	--
B27-10'	10	07/07/16	--	--	--	--	--	--	--	--	--	--	--	9.7	--
B27-15'	15	07/07/16	--	--	--	--	--	--	--	--	--	--	--	4.8	--
B28-2'	2	07/07/16	--	--	--	--	--	--	--	--	--	--	--	119	--
B28-4'	4	07/07/16	--	--	--	--	--	--	--	--	--	--	--	5.3	--
B28-10'	10	07/07/16	--	--	--	--	--	--	--	--	--	--	--	5.7	--
B28-15'	15	07/07/16	--	--	--	--	--	--	--	--	--	--	--	3.9	--
B28-20'	20	07/07/16	--	--	--	--	--	--	--	--	--	--	--	6.2	--
B28-25'	25	07/07/16	--	--	--	--	--	--	--	--	--	--	--	6.3	--
B29-2'	2	07/07/16	--	--	--	--	--	--	--	--	--	--	--	26.5	--
B29-4'	4	07/07/16	--	--	--	--	--	--	--	--	--	--	--	10.5	--
B29-10'	10	07/07/16	--	--	--	--	--	--	--	--	--	--	--	4.9	--
B29-15'	15	07/07/16	--	--	--	--	--	--	--	--	--	--	--	4.6	--
B29-20'	20	07/07/16	--	--	--	--	--	--	--	--	--	--	--	3.9	--
B29-25'	25	07/07/16	--	--	--	--	--	--	--	--	--	--	--	3.1	--



TABLE 2
Summary of Soil Laboratory Analytical Data - Metals
 2820 and 2855 Broadway

Sample ID	Depth (ft bgs)	Sample Date	Oakland, CA												
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium ¹	Cobalt	Copper	Nickel	Vanadium	Zinc	Lead	Mercury
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SOIL ESLs (mg/kg) ²															
Direct Exposure Human Health Risk Levels (Table S-1). Any Land Use/ Any Depth Soil Exposure: Construction Worker			140	0.98	3,000	42	43	530,000	28	14,000	86	470	110,000	160	44
2820 Broadway															
B-30-2'	2	07/08/16	--	--	--	--	--	--	--	--	--	--	--	87.1	--
B-30-4'	4	07/08/16	--	--	--	--	--	--	--	--	--	--	--	12.4	--
B-30-5'	5	07/08/16	--	--	--	--	--	--	--	--	--	--	--	26.9	--
B-30-10'	10	07/08/16	--	--	--	--	--	--	--	--	--	--	--	6.5	--
B-30-15'	15	07/08/16	--	--	--	--	--	--	--	--	--	--	--	7.6	--
B-31-2'	2	07/08/16	--	--	--	--	--	--	--	--	--	--	--	580	--
B-31-4'	4	07/08/16	--	--	--	--	--	--	--	--	--	--	--	4.3	--
2855 Broadway															
B15-8'	8	11/05/15	<0.5	6.8	150	<0.5	<0.25	30	8.4	23	31	34	79	72	0.21
B15-12'	12	11/05/15	<0.5	3.4	170	0.61	<0.25	63	11	23	82	45	56	7.3	0.07
B15-16'	16	11/05/15	<0.5	3.3	160	0.70	<0.25	70	12	28	80	46	68	8.9	0.061
B15-20'	20	11/05/15	0.54	4.7	160	0.56	0.30	47	9.7	22	57	44	52	7.9	<0.05
B15-24'	24	11/05/15	<0.5	11	160	0.58	<0.25	48	10	23	57	45	56	8.1	<0.05
B16-8'	8	11/05/15	<0.5	5.1	250	0.94	<0.25	67	11	28	100	50	260	7.1	0.16
B16-16'	16	11/05/15	<0.5	4.0	200	0.83	0.29	72	16	32	95	52	79	10	0.074
B16-24'	24	11/05/15	<0.5	8.0	150	0.55	<0.25	45	8.7	18	50	39	48	6.1	0.12
B16-28	28	11/05/15	<0.5	11	140	<0.5	<0.25	44	8.7	20	50	38	49	6.4	0.16



TABLE 2
Summary of Soil Laboratory Analytical Data - Metals
 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Depth (ft bgs)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium ¹	Cobalt	Copper	Nickel	Vanadium	Zinc	Lead	Mercury
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SOIL ESLs (mg/kg) ²															
<u>Direct Exposure Human Health Risk Levels (Table S-1).</u> Any Land Use/ Any Depth Soil Exposure: Construction Worker			140	0.98	3,000	42	43	530,000	28	14,000	86	470	110,000	160	44
COMPB24(5-25)	5-25	7/5/2016	<1.8	4.1	125	<0.91	<0.91	46	8.3	20.5	59.4	33.6	42.7	5.6	0.056
COMPB25(5-25)	5-25	7/5/2016	<1.8	4.4	168	<0.92	<0.92	54.8	10.4	23.8	71.2	35.1	47.8	10.3	0.068
COMPB26(5-25)	5-25	7/5/2016	<1.9	4.4	124	<0.94	<0.94	41.2	10.6	19.7	50.3	33.2	41.3	6.6	0.025
Definitions/Abbreviations:								Notes:							
Laboratory analysis for metals was conducted via EPA method 6010B/6020 except for Mercury.								1 ESL Value for Chromium III							
Analysis for Mercury was conducted via EPA method 7471A								2 San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) , Environmental Screening Levels (ESLs), (ESL Workbook, Interim Final, 22Feb16, Rev3). < http://www.swrcb.ca.gov/rwqcb2/water_issues/programs/esl.shtml > Viewed June 13, 2016.							
EPA -- Environmental Protection Agency								Soil borings preceded by "SB" (SB-1) were drilled by AEI							
bgs -- Below Ground Surface								Results reported above the laboratory reporting limit (RL) are presented in bold font.							
ft -- feet								Results reported above the ESL are highlighted in yellow							
J -- Estimated value between method detection limit and reporting limit.								Date -- Newest results							
mg/kg -- Milligrams per kilogram								Grayed out results represent soil to be excavated							
<0.0048 -- Constituent not detected above specific laboratory reporting limit indicated															
NL -- Not listed															



TABLE 3
Summary of Groundwater Laboratory Analytical Data - Organics
 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Sample Date	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Acetone	Dichlorobromomethane (Bromodichloromethane)	Carbon tetrachloride	Chloroform	Chloromethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	MTBE	Tetrachloroethene (PCE)	1,1,2-Trichloroethane	Trichloroethene (TCE)	2-Butanone (MEK)	Naphthalene	Other VOCs*
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GROUNDWATER ESLs (µg/L) ¹																								
Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3) Shallow Groundwater. Commercial/Industrial		NL	NL	NL	9.7	30,000	110	11,000	290,000,000	NL	1.9	20	3,700	53	1,400	950	11,000	11,000	26	NL	49	36,000,000	170	NL
Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3) Deep Groundwater. Fine To Coarse Scenario, Commercial/Industrial.		NL	NL	NL	260	NL	3,300	NL	NL	NL	69	470	110,000	790	48,000	130,000	260,000	130,000	880	NL	1,500	180,000,000	1,600	NL
2820 Broadway																								
B1-W	09/19/15	<50	<65	<130	<0.50	<0.50	<0.50	<1.0	<50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	<0.50	<0.50	<50	<1.0	ND
B3-W	09/19/15	<50	160	350	<0.50	<0.50	<0.50	<1.0	<50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	0.79	<0.50	<0.50	<0.50	<0.50	32	<50	<1.0	ND
B17 W	11/05/15	<50	95	310	<0.50	<0.50	<0.50	<1.0	<10	<0.50	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	ND
B18 W	11/05/15	<50	190	1,000	<0.50	<0.50	<0.50	<1.0	<10	<0.50	0.80	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	<0.50	<0.50	<0.50	<2.0	<0.50	ND
B19 W	11/06/15	<50	<150	<750	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50	7.9	<2.0	<0.50	ND
B20 W	11/06/15	<50	640	1,800	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	<0.50	<0.50	<0.50	<0.50	14	<2.0	<0.50	ND
B21 W	11/06/15	5,500	1,100	880	120	42	83	210	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	28	64	13	2-Hexanone - 10 Isopropylbenzene - 26 n-Propyl benzene - 21 1,2,4-Trimethylbenzene - 130 1,3,5-Trimethylbenzene - 39
B22 W	11/06/15	75	420	3,400	<1.2	<1.2	<1.2	<1.2	<25	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	3.3	<1.2	<1.2	<1.2	<1.2	39	<5.0	<1.2	ND
B23 W	11/06/15	800	160	<500	16	3.2	3.1	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	4.7	<2.5	<2.5	<2.5	<2.5	79	<10	<2.5	Isopropylbenzene - 6.2 n-Propyl benzene - 2.5 1,3,5-Trimethylbenzene - 6.8
B27W	07/07/16	5,710	--	--	11.4	1.8	65.5	18.3	88.9	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	20.1	8.3	sec-Butylbenzene - 2.1 Isopropylbenzene - 19.0 p-Isopropyltoluene - 2.5 n-Propylbenzene - 22.7 1,2,4-Trimethylbenzene - 5.1 1,3,5-Trimethylbenzene - 14.2	
B28W	07/08/16	76,100	--	--	1,410	4,900	1,340	5,790	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<250	160	Isopropylbenzene - 168 n-Propyl benzene - 216 p-Isopropyltoluene - 27.3 J 1,2,4-Trimethylbenzene - 1,140 1,3,5-Trimethylbenzene - 369 n-Butylbenzene - 24.1 J sec-Butylbenzene - 17.6 J	
MW-1/B29	07/19/16	6,340	--	--	696	180	65.4	276	291	<1.0	<1.0	<1.0	<1.0	27.9	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	32.4	74.3	9.2	n-Butylbenzene - 2.4 Di-Isopropyl ether - 6.6 2,2-Dichloropropane - 4.5 Isopropylbenzene - 10.0 p-Isopropyltoluene - 2.3 n-Propylbenzene - 7.7 Styrene - 3.4 Tert-Butyl Alcohol - 30.4 1,2,4-Trimethylbenzene - 44 1,3,5-Trimethylbenzene - 25.1



TABLE 3
Summary of Groundwater Laboratory Analytical Data - Organics
 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Sample Date	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Acetone	Dichlorobromomethane (Bromodichloromethane)	Carbon tetrachloride	Chloroform	Chloromethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	MTBE	Tetrachloroethene (PCE)	1,1,2-Trichloroethane	Trichloroethene (TCE)	2-Butanone (MEK)	Naphthalene	Other VOCs*	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GROUNDWATER ESLs (µg/L) ¹																									
Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3) Shallow Groundwater. Commercial/Industrial		NL	NL	NL	9.7	30,000	110	11,000	290,000,000	NL	1.9	20	3,700	53	1,400	950	11,000	11,000	26	NL	49	36,000,000	170	NL	
Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3) Deep Groundwater. Fine To Coarse Scenario, Commercial/Industrial.		NL	NL	NL	260	NL	3,300	NL	NL	NL	69	470	110,000	790	48,000	130,000	260,000	130,000	880	NL	1,500	180,000,000	1,600	NL	
2820 Broadway																									
MW-2/B30	07/19/16	3,980	--	--	823	113	52.3	169	231	<1.0	<1.0	<1.0	<1.0	23.7	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	55.5	38.1	9.9	Chloroethane - 1.1 1,2-Dichloropropane - 4.4 Di-Isopropyl ether - 6.2 Isopropylbenzene - 10.4 n-Propylbenzene - 8.0 Styrene - 2.5 Tert-Butyl Alcohol - 35.6 1,2,4-Trimethylbenzene - 39 1,3,5-Trimethylbenzene - 12.9	
MW-3/B-31	07/19/16	379	--	--	<1.0	<1.0	<1.0	<2.0	<20	<1.0	<1.0	2.9	<1.0	6.9	<1.0	9.0	<1.0	<1.0	1.6	<1.0	116	<10	<5.0	ND	
2855 Broadway																									
B11	10/04/15	<50	480	460	<0.50	<0.50	<0.50	<1.0	<.50	<1.0	34	8.3	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<.50	<1.0		
B15 W	11/05/15	<50	120	<500	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	ND	
B16 W	11/05/15	<50	<50	<250	<0.50	<0.50	<0.50	<0.50	<10	<0.50	4.8	9.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	ND	
MW-4/B24	07/19/16	<50	--	--	<1.0	<1.0	<1.0	<2.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	5.7	<10	<5.0	ND	
MW-5/ B25	07/19/16	73.4	--	--	<1.0	<1.0	<1.0	<2.0	<20	<1.0	57.4	6.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	ND	
MW-6/B26	07/19/16	<50	--	--	<1.0	<1.0	<1.0	<2.0	<20	<1.0	23.8	6.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	ND	
Definitions/Abbreviations:		<p>EPA -- Environmental Protection Agency</p> <p>TPHg -- Gasoline Range Organics ((GRO) C5-C12) by EPA 8015 Gas chromatograph (GC)</p> <p>TPHd -- Extractable fuel hydrocarbons ([EFC] C10 - C28) by EPA 8015 GC</p> <p>TPHo -- Extractable fuel hydrocarbons ([EFC] C24 - C36) by EPA 8015 GC</p> <p>µg/L -- micrograms per Liter</p> <p>Total Xylenes -- Meta-, ortho-, and para-xylenes by EPA Method 8260B</p> <p>MTBE -- Methyl tertiary-butyl ether by EPA Test Method 8260B</p> <p>Ethanol -- Analyzed by EPA Test Method by 8260B</p> <p>bgs -- Below Ground Surface</p> <p>ft -- feet</p> <p>-- -- not analyzed</p> <p>Date -- Newest results</p>																							
Definitions/Abbreviations:		<p>< -- Less than the laboratory reporting limit indicated.</p> <p>J -- Estimated value between method detection limit and reporting limit.</p> <p>NL -- Not listed</p> <p>* -- VOCs that are not listed in the ESL table</p> <p>Notes:</p> <p>1 San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), Environmental Screening Levels (ESLs), (ESL Workbook, Interim Final, 22Feb16, Rev3). http://www.swrcb.ca.gov/rwqcb2/water_issues/programs/esl.shtml Viewed June 13, 2016.</p> <p>2 TPH motor oil is not soluble. TPH motor oil detections in water most likely are petroleum degradates or less likely NAPL. If the detections are degradates, add TPH motor oil and TPH diesel results and compare to TPH diesel criterion (SFBRWQCB User's Guide, Chapter 9). Soil borings preceded by "SB" (SB-1) were drilled by AEI.</p> <p>Results reported above the laboratory reporting limit (RL) are presented in bold font.</p> <p>Results reported at or above the Shallow Groundwater ESL are highlighted</p> <p>Results reported at or above the Deep and Shallow Groundwater ESL are highlighted</p>																							



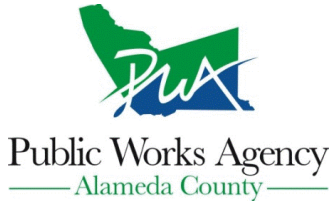
TABLE 4
Summary of Groundwater Laboratory Analytical Data - Metals
 2820 and 2855 Broadway
 Oakland, CA

Sample ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium ¹	Cobalt	Copper	Nickel	Vanadium	Zinc	Lead	Mercury
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GROUNDWATER ESLs (µg/L) ^{2,3}														
Direct Exposure Human Health Risk Levels (Table GW-1). Human Health Risk Based Only.		7.8	0.004	2,000	1.0	0.04	22,000	6.0	300	12	50	6,000	0.2	1.2
2820 Broadway														
B1-W	9/19/2015	<10	<10	140	<20	<20	<10	8.2	<20	18	<10	<20	<5.0	<0.20
B3-W	9/19/2015	<10	<10	100	<20	<20	<10	12	<20	<21	<10	<20	<5.0	<0.20
MW-1	7/19/2016	--	--	--	--	--	--	--	--	--	--	--	<10	--
MW-2	7/19/2016	--	--	--	--	--	--	--	--	--	--	--	<10	--
MW-3	7/19/2016	--	--	--	--	--	--	--	--	--	--	--	<10	--
2855 Broadway														
MW-4	7/19/2016	<6.0	<10	<200	<5.0	<2.0	<10	<5.0	<10	5.7	<10	38.7	<10	<0.20
MW-5	7/19/2016	<6.0	<10	<200	<5.0	<2.0	<10	<5.0	<10	<5.0	<10	<20	<10	<0.20
MW-6	7/19/2016	<6.0	<10	<200	<5.0	<2.0	<10	<5.0	<10	<5.0	<10	<20	<10	<0.20
Definitions/Abbreviations:							Notes:							
Laboratory analysis for metals was conducted via EPA method 6010B except for Mercury.							1 ESL Value for Chromium III							
Analysis for Mercury was conducted via EPA method 7471A							2 San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) , Environmental Screening Levels (ESLs), (ESL Workbook, Interim Final, 22Feb16, Rev3). Viewed June 13, 2016.							
EPA -- Environmental Protection Agency							3 Laboratory results for metals in groundwater were reported in mg/L Therefore, ESL Units are converted from mg/L to ug/L to allow direct comparison with laboratory results.							
bgs -- Below Ground Surface							Soil borings preceded by "SB" (SB-1) were drilled by AEI							
ft -- feet							Results reported above the laboratory reporting limit (RL) are presented in bold font.							
J -- Estimated value between method detection limit and reporting limit.							Results reported above the ESL are highlighted in yellow							
µg/L -- micrograms per Liter							Date -- Newest results							
<0.0048 -- Constituent not detected above specific laboratory reporting limit indicated														
NL -- Not listed														

ATTACHMENT A

ALAMEDA COUNTY DRILLING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/28/2016 By jamesy

Permit Numbers: W2016-0448 to W2016-0454
Permits Valid from 07/05/2016 to 07/08/2016

Application Id:	1467050786634	City of Project Site: Oakland
Site Location:	2820 and 2855 Broadway, Oakland-Premier Hyundai, Oakland	Completion Date: 07/08/2016
Project Start Date:	07/05/2016	
Assigned Inspector:	Contact Marcelino Valpando at (510) 670-5760 or Marcelino@acpwa.org	
Applicant:	ATC Group Services LLC - Gabriel Stivala 1353 Longfellow Circle, Roseville, CA 95747	Phone: 925-223-7123
Property Owner:	Samir Rohayem Premier Hyundai of Oakland, Oakland, CA 94611	Phone: 510-908-8206
Client:	Broadstone on Broadway 477 Pacific Avenue, Suite One, San Francisco, CA 94133	Phone: --
Contact:	Jim Kundert	Phone: 209-996-2767 Cell: 209-996-2787

Receipt Number: WR2016-0317	Total Due:	\$2647.00
Payer Name : Kim Neep	Total Amount Paid:	\$2647.00
	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 6 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: auger

Work Total: \$2382.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2016-0448	06/28/2016	10/03/2016	MW-1	8.00 in.	2.00 in.	5.00 ft	25.00 ft
W2016-0449	06/28/2016	10/03/2016	MW-2	8.00 in.	2.00 in.	5.00 ft	25.00 ft
W2016-0450	06/28/2016	10/03/2016	MW-3	8.00 in.	2.00 in.	5.00 ft	25.00 ft
W2016-0451	06/28/2016	10/03/2016	MW-4	8.00 in.	2.00 in.	5.00 ft	25.00 ft
W2016-0452	06/28/2016	10/03/2016	MW-5	8.00 in.	2.00 in.	5.00 ft	25.00 ft
W2016-0453	06/28/2016	10/03/2016	MW-6	8.00 in.	2.00 in.	5.00 ft	25.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground

Alameda County Public Works Agency - Water Resources Well Permit

Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
5. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.
6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
8. Minimum surface seal thickness is two inches of cement grout placed by tremie.
9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
11. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 7 Boreholes

Driller: Gregg Drilling - Lic #: 485165 - Method: auger

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2016-0454	06/28/2016	10/03/2016	7	3.00 in.	25.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will

Alameda County Public Works Agency - Water Resources Well Permit

need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

ATTACHMENT B

BORING LOGS

CLIENT Broadway Valdez **PROJECT NAME** _____

PROJECT NUMBER 118EM01075 **PROJECT LOCATION** 2855 Broadway, Oakland, CA

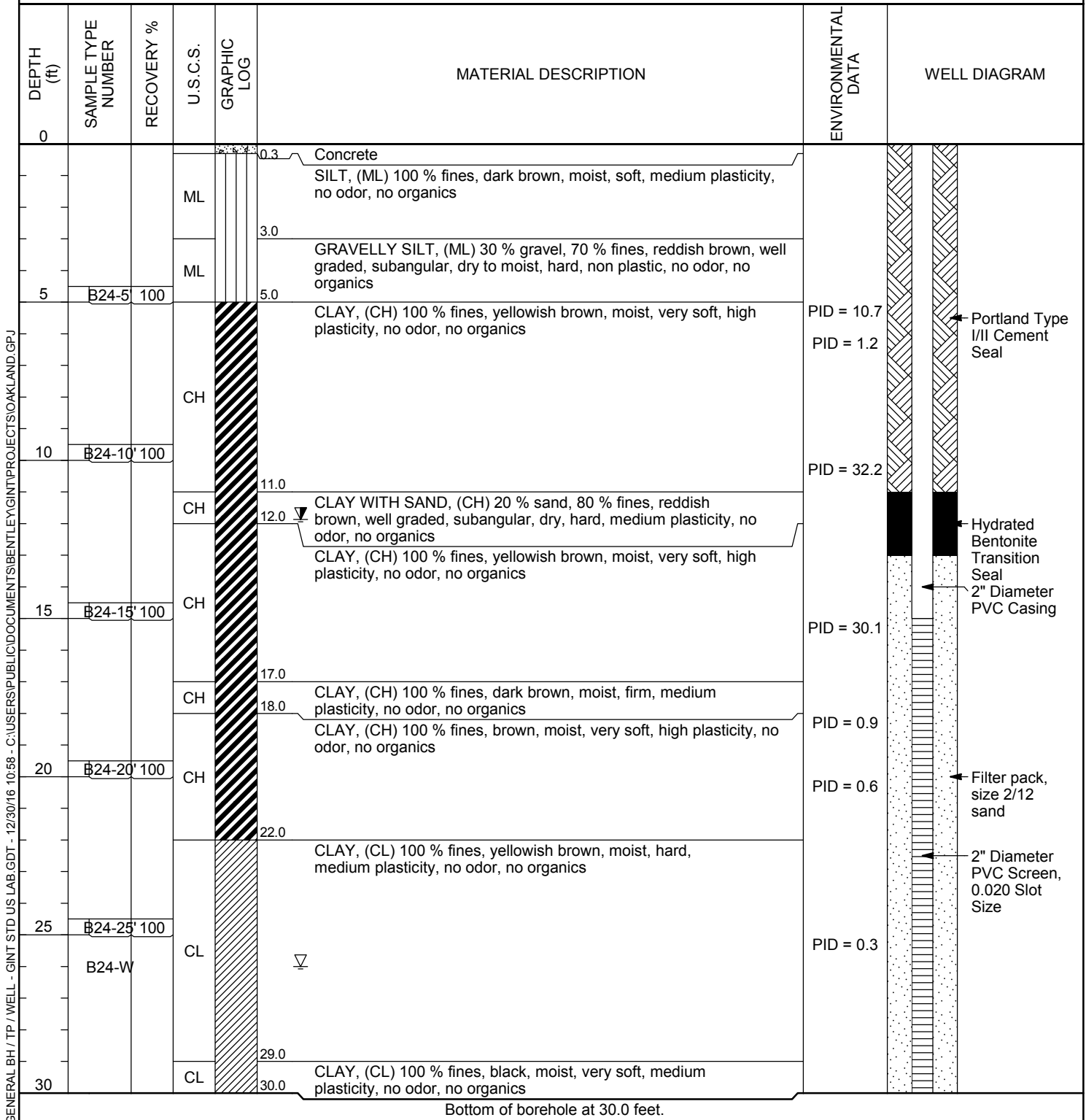
DATE STARTED 7/5/16 **COMPLETED** 7/5/16 **GROUND ELEVATION** _____ **HOLE SIZE** 8 inches

DRILLING CONTRACTOR Gregg Drilling **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push followed by HSA ∇ **AT TIME OF DRILLING** 26.00 ft

LOGGED BY J. Kundert **CHECKED BY** C. Klinesteker P.G. **AT END OF DRILLING** ---

NOTES _____ ∇ **AFTER DRILLING** 11.87 ft (7/19/2016)



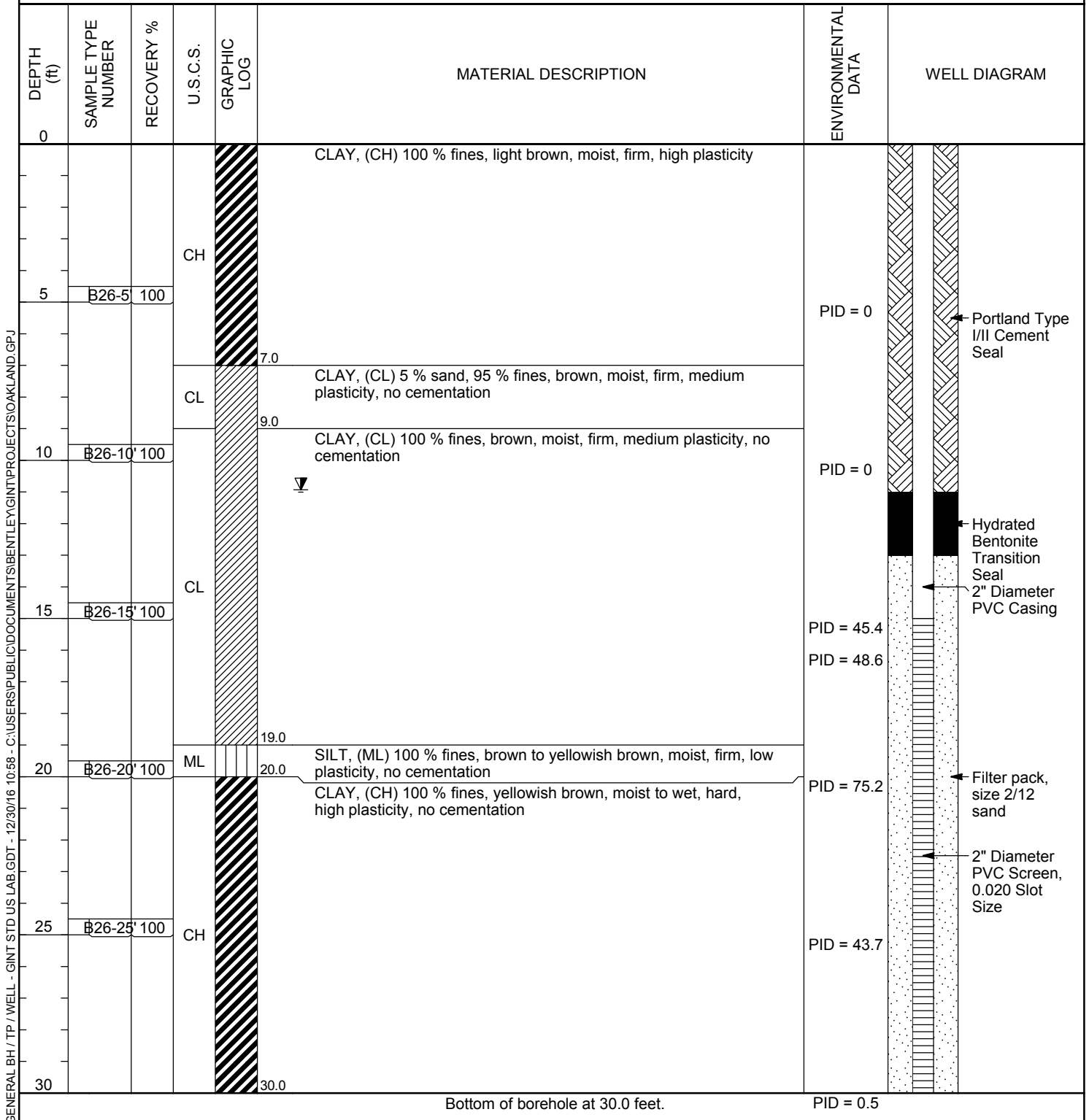
GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/30/16 10:58 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\OAKLAND.GPJ

CLIENT Broadway Valdez PROJECT NAME _____
 PROJECT NUMBER 118EM01075 PROJECT LOCATION 2855 Broadway, Oakland, CA
 DATE STARTED 7/6/16 COMPLETED 7/6/16 GROUND ELEVATION _____ HOLE SIZE 8 inches
 DRILLING CONTRACTOR Gregg Drilling GROUND WATER LEVELS:
 DRILLING METHOD Direct Push followed by HSA ∇ AT TIME OF DRILLING 29.00 ft
 LOGGED BY J. Kundert CHECKED BY C. Klinesteker P.G. AT END OF DRILLING ---
 NOTES _____ ∇ AFTER DRILLING 9.13 ft (7/19/2016)

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM	
0								
4.0			CL		CLAY WITH GRAVEL, (CL) 20 % gravel, 80 % fines, reddish brown, well graded, subangular, moist, firm, medium plasticity, no cementation			
5	B25-5	100	CL		CLAY, (CL) 100 % fines, reddish brown, moist, hard, medium plasticity, no cementation	PID = 0	Portland Type I/II Cement Seal	
7.0			CL		GRAVELLY CLAY, (CL) 20 % gravel, 10 % sand, 70 % fines, dark brown to reddish brown, well graded, subangular, dry, firm, medium plasticity, no cementation			
8.0			CL		CLAY, (CL) 100 % fines, brown, moist, firm, medium plasticity, no cementation	PID = 0	Hydrated Bentonite Transition Seal	
10	B25-10	100	CL		CLAY WITH GRAVEL, (CL) 15 % gravel, 10 % sand, 75 % fines, dark brown, well graded, subangular, moist, hard, medium plasticity, no cementation			
13.0			CL		CLAY, (CL) 100 % fines, brown to yellowish brown, moist, hard, medium plasticity, no cementation	PID = 0	2" Diameter PVC Casing	
14.0	B25-15	100	CL					
20	B25-20	100	CL			PID = 0	Filter pack, size 2/12 sand	
24.0			SP		POORLY GRADED SAND, (SP) 100 % sand, yellowish brown, poorly graded, fine grained, wet, loose, no cementation			
25.0	B25-25	100	CL		CLAY, (CL) 100 % fines, yellowish brown, wet, firm, medium plasticity, no cementation	PID = 0	2" Diameter PVC Screen, 0.020 Slot Size	
29.0			SM		SILTY SAND, (SM) 60 % sand, 40 % fines, brown, well graded, rounded, wet, dense, no cementation			
30.0	B25-30	100	SM			PID = 0		
Bottom of borehole at 30.0 feet.							PID = 0	

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/30/16 10:58 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\OAKLAND.GPJ

CLIENT Broadway Valdez **PROJECT NAME** _____
PROJECT NUMBER 118EM01075 **PROJECT LOCATION** 2855 Broadway, Oakland, CA
DATE STARTED 7/6/16 **COMPLETED** 7/6/16 **GROUND ELEVATION** _____ **HOLE SIZE** 8 inches
DRILLING CONTRACTOR Gregg Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Direct Push followed by HSA **AT TIME OF DRILLING** --- No water observed during drilling
LOGGED BY J. Kundert **CHECKED BY** C. Klinesteker P.G. **AT END OF DRILLING** ---
NOTES _____ **▼ AFTER DRILLING** 10.93 ft (7/19/2016)



GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/30/16 10:58 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\OAKLAND.GPJ



ATC Group Services
 915 Highland Pointe Drive, Suite 250
 Roseville, CA 95678

BORING NUMBER B27

CLIENT Broadway Valdez PROJECT NAME _____

PROJECT NUMBER 118EM01075 PROJECT LOCATION 2855 Broadway, Oakland, CA

DATE STARTED 7/7/16 COMPLETED 7/7/16 GROUND ELEVATION _____ HOLE SIZE 2 inches

DRILLING CONTRACTOR Gregg Drilling GROUND WATER LEVELS:
 DRILLING METHOD Direct Push ∇ AT TIME OF DRILLING 24.00 ft

LOGGED BY J. Kundert CHECKED BY C. Klinesteker P.G. AT END OF DRILLING ---

NOTES _____ AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/30/16 10:58 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\OAKLAND.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
	B27-2	100	ML		SILT, (ML) 100 % fines, dark brown, moist	PID = 3.4
	B27-4	100			4.0	
5			CL		CLAY, (CL) 100 % fines, light greenish gray, hard, medium plasticity, no cementation	PID = 9.9
					9.0	
10	B27-10	100	ML		SILT, (ML) 10 % sand, 90 % fines, greenish gray, dry to moist, firm, low plasticity, no cementation	PID = 54.7
					14.0	
15	B27-15	100	CL		CLAY, (CL) 100 % fines, reddish brown, moist, hard, medium plasticity, no cementation	PID = 16.7
					20.0	
20	B27-20	100	ML		SILT WITH SAND, (ML) 5 % gravel, 10 % sand, 85 % fines, yellowish brown, dry to moist	PID = 0
					24.0 ∇	
25	B27-25	100	ML		GRAVELLY SILT WITH SAND, (ML) 30 % gravel, 10 % sand, 60 % fines, brown to reddish brown, well graded, subrounded, firm, non plastic, no cementation	PID = 0
					25.0	
Bottom of borehole at 25.0 feet.						



ATC Group Services
 915 Highland Pointe Drive, Suite 250
 Roseville, CA 95678

BORING NUMBER B28

CLIENT Broadway Valdez PROJECT NAME _____
 PROJECT NUMBER 118EM01075 PROJECT LOCATION 2855 Broadway, Oakland, CA
 DATE STARTED 7/7/16 COMPLETED 7/7/16 GROUND ELEVATION _____ HOLE SIZE 2 inches
 DRILLING CONTRACTOR Gregg Drilling GROUND WATER LEVELS:
 DRILLING METHOD Direct Push ∇ AT TIME OF DRILLING 20.00 ft
 LOGGED BY J. Kundert CHECKED BY C. Klinesteker P.G. AT END OF DRILLING ---
 NOTES _____ AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/30/16 10:58 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\OAKLAND.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
	B28-2	100	ML		SILT, (ML) 5 % sand, 95 % fines, dark brown, dry to moist, firm, low plasticity, no cementation	PID = 0
					3.0	
	B28-4	100	CL		CLAY, (CL) 100 % fines, brown, dry to moist, hard, medium plasticity, no cementation	PID = 0
5						
	B28-10	100	SM		SILTY SAND, (SM) 10 % gravel, 70 % sand, 20 % fines, reddish brown, well graded, subangular, dry to moist, medium dense, non plastic, no cementation	PID = 0
10						
	B28-15	100	ML		SANDY SILT, (ML) 15 % gravel, 30 % sand, 55 % fines, grayish brown, well graded, subangular, moist, loose, medium plasticity, no cementation	PID = 1945
15						
	B28-20	100	CL		SANDY CLAY WITH GRAVEL, (CL) 15 % gravel, 30 % sand, 45 % fines, grayish green, well graded, subangular, moist, soft, non plastic, no cementation	
20						
	B28-25	100	SW		SAND WITH GRAVEL, (SW) 15 % gravel, 80 % sand, 5 % fines, yellowish brown, well graded, subangular, wet, loose, non plastic, no cementation	PID = 58.6
25						

Bottom of borehole at 25.0 feet.

PID = 0

CLIENT Broadway Valdez **PROJECT NAME** _____
PROJECT NUMBER 118EM01075 **PROJECT LOCATION** 2855 Broadway, Oakland, CA
DATE STARTED 7/7/16 **COMPLETED** 7/7/16 **GROUND ELEVATION** _____ **HOLE SIZE** 8 inches
DRILLING CONTRACTOR Gregg Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Direct Push followed by HSA **AT TIME OF DRILLING** 23.00 ft
LOGGED BY J. Kundert **CHECKED BY** C. Klinesteker P.G. **AT END OF DRILLING** ---
NOTES _____ **AFTER DRILLING** 12.42 ft (7/19/2016)

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DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
3.0	B29-2	100	ML	[Hatched pattern]	SILT, (ML) 100 % fines, dark brown to black, moist, firm, low plasticity, hydrocarbon odor, no cementation, brick fragments observed	PID = 77	<p>Portland Type I/II Cement Seal</p> <p>Hydrated Bentonite Transition Seal</p> <p>2" Diameter PVC Casing</p> <p>Filter pack, size 2/12 sand</p> <p>2" Diameter PVC Screen, 0.020 Slot Size</p>
5.0	B29-4	100	CL	[Diagonal hatched pattern]	CLAY, (CL) 100 % fines, light greenish gray, moist, hard, medium plasticity, hydrocarbon odor, no cementation	PID = 145	
9.0	B29-10	100	ML	[Vertical line pattern]	SILT, (ML) 100 % fines, light greenish gray, moist, firm, medium plasticity, no cementation	PID = 2404	
14.0	B29-15	100	CL	[Diagonal hatched pattern]	CLAY, (CL) 100 % fines, brown, dry, firm, medium plasticity, no cementation	PID = 1522	
19.0	B29-20	100	SM	[Dotted pattern]	SILTY SAND, (SM) 70 % sand, 30 % fines, brown to yellowish brown, poorly graded, rounded, moist, loose, no cementation	PID = 219	
24.0	B29-25	100	ML	[Dotted pattern]	GRAVELLY SILT, (ML) 30 % gravel, 10 % sand, 60 % fines, brown, well graded, subrounded, firm, non plastic, no cementation	PID = 0	

Bottom of borehole at 25.0 feet.

CLIENT Broadway Valdez PROJECT NAME _____
 PROJECT NUMBER 118EM01075 PROJECT LOCATION 2855 Broadway, Oakland, CA
 DATE STARTED 7/8/16 COMPLETED 7/8/16 GROUND ELEVATION _____ HOLE SIZE 8 inches
 DRILLING CONTRACTOR Gregg Drilling GROUND WATER LEVELS:
 DRILLING METHOD Direct Push followed by HSA ∇ AT TIME OF DRILLING 23.00 ft
 LOGGED BY J. Kundert CHECKED BY C. Klinesteker P.G. AT END OF DRILLING ---
 NOTES _____ ∇ AFTER DRILLING 12.65 ft (7/19/2016)

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/30/16 10:58 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\OAKLAND.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
0.3					Asphalt and concrete		
	B30-2	100	ML		SILT, (ML) 100 % fines, dark brown, dry to moist, soft, medium plasticity, no cementation	PID = 0	<p>Portland Type I/II Cement Seal</p> <p>Hydrated Bentonite Transition Seal</p> <p>2" Diameter PVC Casing</p> <p>Filter pack, size 2/12 sand</p> <p>2" Diameter PVC Screen, 0.020 Slot Size</p>
4.0	B30-4	100				PID = 0	
5	B30-5	100	ML		SILT WITH SAND, (ML) 20 % sand, 80 % fines, brown, subrounded, firm, low plasticity, no cementation	PID = 0	
9.0							
10	B30-10	100	ML		SANDY SILT, (ML) 30 % sand, 70 % fines, brown to greenish gray, rounded, firm, non plastic, no cementation	PID = 224	
14.0							
15	B30-15	100	ML		SILT, (ML) 10 % sand, 90 % fines, greenish gray, rounded, firm, low plasticity, no cementation	PID = 1332	
19.0							
20	B30-20	100	SW		WELL GRADED SAND WITH SILT AND GRAVEL, (SW) 30 % gravel, 60 % sand, 10 % fines, grayish gray, well graded, subrounded, moist to wet, medium dense, non plastic, no cementation	PID = 2	
24.0							
25	B30-25	100	SP		POORLY GRADED SAND WITH SILT, (SP) 10 % gravel, 80 % sand, 10 % fines, yellowish brown, well graded, subrounded, medium dense, non plastic, no cementation	PID = 0	
25.0							

Bottom of borehole at 25.0 feet.

CLIENT Broadway Valdez **PROJECT NAME** _____

PROJECT NUMBER 118EM01075 **PROJECT LOCATION** 2855 Broadway, Oakland, CA

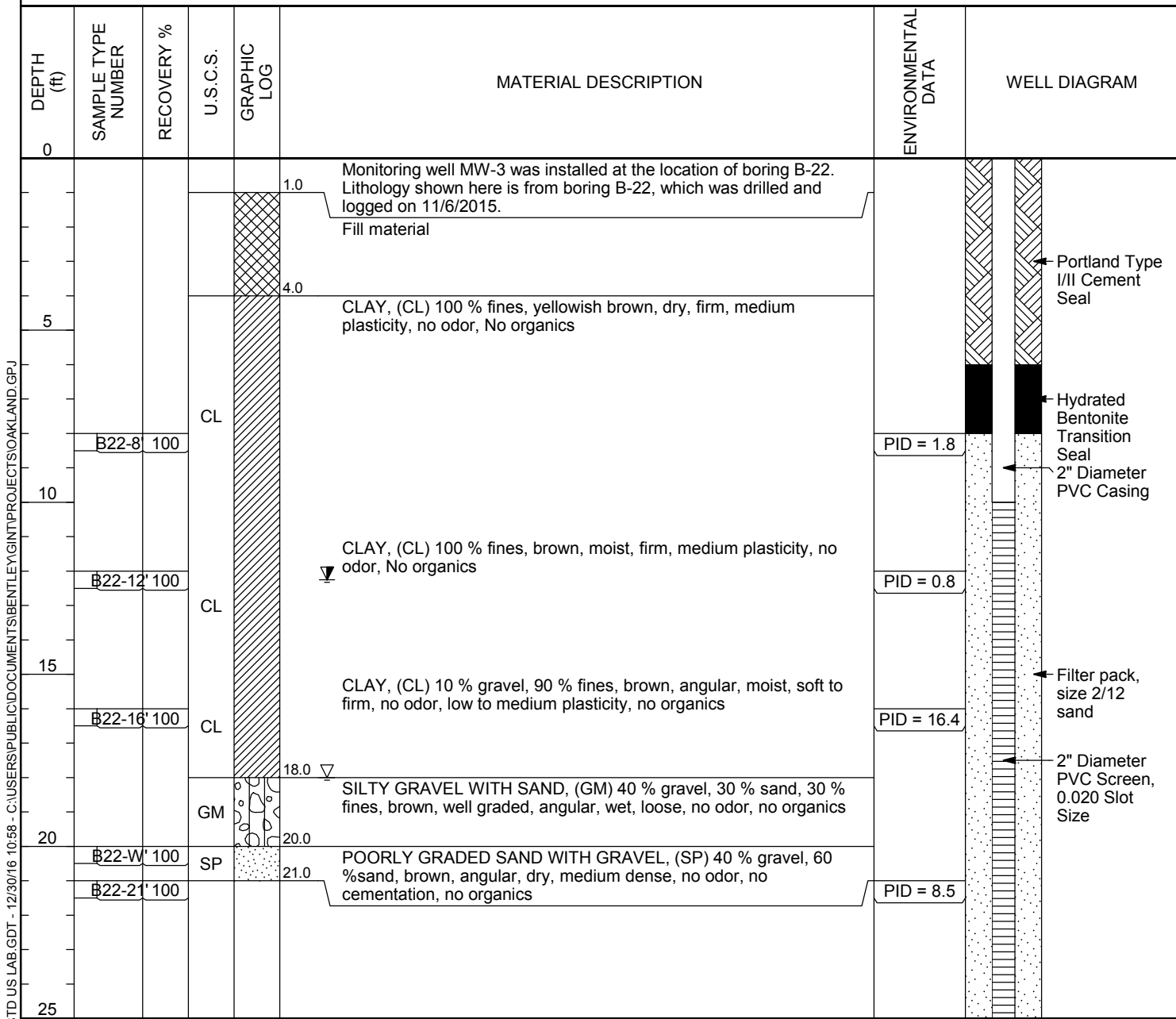
DATE STARTED 7/8/16 **COMPLETED** 7/8/16 **GROUND ELEVATION** _____ **HOLE SIZE** 8 inches

DRILLING CONTRACTOR Gregg Drilling **GROUND WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** 18.00 ft

LOGGED BY J. Kundert **CHECKED BY** C. Klinesteker P.G. **AT END OF DRILLING** ---

NOTES _____ **AFTER DRILLING** 12.25 ft (7/19/2016)



Bottom of borehole at 25.0 feet.

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/30/16 10:58 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\OAKLAND.GPJ

ATTACHMENT C

MONITORING WELL DEVELOPMENT LOGS

ATC Group Services LLC

915 Highland Pointe Drive Suite 205
Roseville, CA 95678
(916) 724-5247 Phone
(916) 724-5201 Fax

Service Request Form Well Development

Date of SRF 7/13/2016

Site Information

Site Name: Premier Hyundai of Oakland Project No. 118M01075 Task No. 1
Contact: Gabe Stivala Phone No. (925) 223-7123 Labor Code No. 09012

Scope of Work

1. Conduct tailgate H&S meeting.
2. Contact potential stakeholders and discuss scope, obtain contact info for future work.
3. Gauge and develop the wells: MW-1 through MW-6.
4. Open all wells before gauging and sampling, allow at least 15 min to equalize.
5. Gauge wells in order: MW-5, MW-4, MW-6, MW-3, MW-1 and MW-2
6. Develop all monitoring wells in the same order.
7. Waste water to be transferred to 55-gallon drums, take four drums.
8. Scan and send field forms to sara.bostick@atcassociates.com and gabe.stivala@atcassociates.com

Attachments

Budget _____ Workplan _____ Map X Chain-of Custody _____
Other: _____ Well ConstructDiagram _____

Project Manager Information

Work Requested By: Alex Flores Project Manager: Gabe Stivala
Date needed: 7/15/2016 Time Needed: _____ Hours Budgeted: _____

Field Completion Data

Was the scope of work completed?
If "No", describe work completed.

X Y N

Completed by: Alex Flores
Date Completed: 07/14/16

Flowmeter:

Time: _____ Gals
Oxidizer: _____ hrs
Time: _____ hrs
_____ hrs

Comments:



Monitoring Well Gauging Log

FLD-102

Revision 0.0

Jul-08

Cardno Branch: Modesto, CA; 54

Date: 071416

Page 1 of 1

Cardno Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Weather: Sunny

Temperature: 68°F

Water Level Meter Model/ID: Solinst 101/ 223605

Interface Probe Model/ID: N/A

Well ID	Casing Diameter (inches) / Type	Time of Well Cap Removal*	Time of Gauging*	Depth To LNAPL (feet)	Depth To Water (feet)	LNAPL Thickness (feet)	Total Well Depth (feet)	Other
MW-1	2" / PVC	0830-0850	0946		12.25		24.74	
MW-2	2" / PVC	↓	0954		12.51		24.83	
MW-3	2" / PVC		0940		12.11		24.54	
MW-4	2" / PVC		0917		11.97		29.91	
MW-5	2" / PVC		0910		9.13		29.90	
MW-6	2" / PVC		0925		10.92		29.87	

Comments:

MW-5, 4, 6, 3, 1 & 2.

Notes:

- * If top of screen is submerged, allow at least 15 minutes for well equilibration following well cap removal.
- All measurements to be reported to nearest 0.01 ft.
- ID = Identification.
- LNAPL = Light Non-Aqueous Phase Liquid.
- Sheen = Discontinuous, non-measurable thickness of LNAPL (less than 0.01 ft).
- Trace = Continuous, non-measurable thickness of LNAPL.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 07/14/16

Page 1 of 2

ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-1

Contractor:

Weather: Sunny

Temperature: 76°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 / 1223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 / 111577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom - 13Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 12.44 x CM 0.16 = 2.0 (CV)(gal) x 8.0 CV (gal) = 20.0 PV

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 24.74

Depth to Water (DTW)(feet): 12.25

Water Column (WC)(feet): 12.49

LNAPL Thickness (ft):

Purging Start Time: 1520

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1520	12.25	0.5	19.37	1.948	5.01	6.78	82.0	Begin hand bailing
1523	—	2	18.43	1.676	5.26	6.73	77.3	gas odor
1526	—	4	18.19	1.378	5.35	6.74	70.6	fine silt
1529	12.71	6	18.06	1.071	5.28	6.80	66.4	stop
1540	12.33	8	18.86	0.918	3.62	6.74	62.1	Begin purging brownish silty H ₂ O
1543	—	10	18.71	0.845	3.21	6.71	57.7	gas odor

Sample Data

Sample ID: MW-1

Time of Sample:

Filtered
(yes/no)

Preservatives

Analytical Parameters

Container Types, Volumes, & Quantities:

No samples collected. well development.

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 1.11

Approximate Flow Rate (GPM): 0.733

Recovery Type: Fast Slow

% Recovery = 9(1.1)

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: installed new padlock



Monitoring Well Purging and Sampling Log

FLD-103a

Page 2 of 2

Jul-16

MW-1

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1546	12.89	12	18.61	0.768	2.46	6.70	54.1	fine silty
1549	13.06	14	18.67	0.706	2.29	6.67	51.9	begin to clear
1552	13.29	16	18.59	0.683	2.16	6.68	50.3	gas odor @ 20'
1555	13.48	18	18.64	0.659	2.03	6.65	43.8	clear @ 16'
1558	13.41	20	18.70	0.668	2.11	6.62	44.6	clear @ 13'
1601	13.36	22	18.66	0.663	2.07	6.60	43.2	pump off.

Comments: 22 gals purged.

Final depth = 24.80



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 071416

Page 1 of 1

ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-2

Contractor:

Weather: Sunny

Temperature: 75°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 1223608

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 11577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: Bailer.3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom-15Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 12.32 x CM 0.16 = 1.971 19 19.71

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

(CV)(gal) x 2.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 24.83

Depth to Water (DTW)(feet): 12.51

Water Column (WC)(feet): 12.32

LNAPL Thickness (ft):

Purging Start Time: 1616

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1616	12.51	0.5	17.44	2.557	4.51	6.55	72.8	Begin hand bailing
1619	—	2.5	17.29	2.649	4.07	6.62	70.1	gas odor
1622	—	4.5	17.20	2.580	3.39	6.67	67.6	fine silt-
1625	—	6.5	17.04	1.899	3.14	6.71	62.1	gas odor
1627	12.86	8.5	16.98	1.451	3.26	6.83	55.3	Stop hand bailing
1640	12.55	10.5	18.84	1.287	3.71	6.73	57.6	pump on @ bottom

Sample Data

Sample ID: MW-2

Time of Sample:

Filtered
(yes/no)

Preservatives

Analytical Parameters

Container Types, Volumes, & Quantities:

No samples collected. Well development.

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): 1.61

Approximate Flow Rate (GPM): 0.765

Recovery Type: Fast Slow

% Recovery = 86.93

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 071416

Page 1 of 2

ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-3

Contractor:

Weather: Sunny

Temperature: 75°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 11577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom-13'Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): 2.468 10 24.68

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC 15.43 x CM 0.16 (CV)(gal) x 2.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 24.54

Depth to Water (DTW)(feet): 12.11

Water Column (WC)(feet): 15.43

LNAPL Thickness (ft):

Purging Start Time: 1410

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1410	12.11	1.0	17.89	1.429	2.99	8.11	39.8	Begin hand bailing
1416	—	3.5	17.66	1.194	3.07	8.26	38.1	brownish silty H ₂ O
1421	—	6.0	17.59	1.111	3.15	8.16	30.7	No odor
1426	12.28	8.5	17.46	1.152	3.26	7.81	34.6	Stop hand bailing
1440	12.13	11.0	18.14	1.190	3.98	7.59	43.1	Begin pumping well pump & both
1444	12.26	13.5	17.89	1.109	4.06	7.52	41.3	brownish silty H ₂ O

Sample Data

Sample ID: MW-	Time of Sample:	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
No samples collected. Well development.				

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): 0.19

Approximate Flow Rate (GPM): 0.65

Recovery Type: Fast Slow

% Recovery = 98.77

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: Installed new padlock.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 07/14/16

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ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-4

Contractor:

Weather: Sunny

Temperature: 72 °F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 / 223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 / 11277

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer.3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other:

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 17.94 x CM 0.16 = 2.870 CV (gal) x 8.0 CV (gal) = 28.70 PV

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 29.91

Depth to Water (DTW)(feet): 11.97

Water Column (WC)(feet): 17.94

LNAPL Thickness (ft):

Purging Start Time: 1142

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1142	11.97	1g	21.34	1.504	2.60	7.52	56.9	Begin hand bailing
1149	—	4g	20.91	2.393	2.09	7.41	67.1	light brownish H ₂ O
1155	—	7g	20.42	1.599	2.88	7.38	59.9	swirl No odor
1201	21.23	10g	20.33	1.877	3.01	7.33	62.0	light brownish H ₂ O stop hand bailing
1216	17.88	13g	21.68	1.539	3.65	7.24	55.6	Begin pumping
1222	—	16g	21.49	1.352	3.96	7.20	54.1	light brownish-pink silt

Sample Data

Sample ID: MW-4

Time of Sample:

Filtered
(yes/no)

Preservatives

Analytical Parameters

Container Types, Volumes, & Quantities:

No samples collected. Well development.

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): 16.32

Approximate Flow Rate (GPM): 0.564

Recovery Type: Fast Slow

% Recovery = 67.06 in 15 minutes

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: installed new padlock



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 071416

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ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW- 5

Contractor:

Weather: Sunny

Temperature: 70 °F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 1223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 111577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer.3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom, 29.9'Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC 20.77 x CM 0.16 = 3.323 10 (CV)(gal) x 1.0 CV (gal) = 33.23 PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 29.90

Depth to Water (DTW)(feet): 9.13

Water Column (WC)(feet): 20.77

LNAPL Thickness (ft):

Purging Start Time: 1015

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1015	9.13	0.5	20.61	2.813	3.51	6.90	138.4	Begin hand bailing
1020	—	3.8	20.25	1.989	3.66	7.01	120.1	light brownish H ₂ O
1024	—	7.1	20.18	1.576	3.80	7.09	114.6	No odor
1028	20.72	10.4	20.11	1.601	3.91	7.12	116.9	light brownish H ₂ O stop hand bailing
1040	18.61	13.7	20.24	1.711	3.98	7.20	110.1	Begin pumping Pump @ bottom light grayish H ₂ O
1047	20.00	17.0	20.88	1.632	3.79	7.24	105.6	No odor

Sample Data

Sample ID: MW- 5 Time of Sample: _____ Filtered (yes/no) _____ Preservatives _____ Analytical Parameters _____

Container Types, Volumes, & Quantities: _____

No samples collected - Well development.

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): _____ Approximate Flow Rate (GPM): 0.56

Recovery Type: Fast Slow % Recovery = 45.64 in 10 min.

Purge Water Disposition (Attach Drum Inventory Log - FLD 108): _____

Comments: installed new padlock 12" emco 2 bolt (15/16).



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA	Date: 07/14/16	Page 1 of 2
ATC Representative(s): Alex Flores	Project: Broadway Valdez	
	Location: 2820 and 2855 Broadway, Oakland, CA	
Contact Information: Gabe Stivala	Project No: 118EM01075	Task No: 01
Well ID: MW- 6	Contractor:	
	Weather:	Temperature: 74 °F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinist 101 1223605	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 111577	Decontamination Method: Alconox/ Rinse
Purging Method: <input type="checkbox"/> Disp. Bailer <input checked="" type="checkbox"/> Centrifugal Pump <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Waterra Other: <input checked="" type="checkbox"/> PVC bailer	
3 Well Volumes <input type="checkbox"/> Low Flow <input type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <input type="checkbox"/>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV): 3.032 10
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC 18.95 x CM 0.16 = 3.032 (CV)(gal) x 8.0 CV (gal) = 30.32 PV

Monitoring Measurements

Depth to LNAPL (feet):	Total Well Depth (feet): 29.87
Depth to Water (DTW)(feet): 10.92	Water Column (WC)(feet): 18.95
LNAPL Thickness (ft):	Purging Start Time:

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1310	10.92	1g	20.79	3.487	4.21	7.93	64.7	Clear H ₂ O
1315	—	4.1	20.57	2.496	4.87	8.09	58.3	No odor.
1322	—	7.2	20.25	2.450	4.91	8.07	59.2	light brownish H ₂ O
1328	—	10.3	20.23	2.458	5.22	8.05	59.9	fine silt.
1333	Dry	13.3	20.29	2.471	4.97	7.91	66.2	well dry
1353	25.91							

Sample Data

Sample ID: MW- 6	Time of Sample:	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
No samples collected. well development.				

Well Recovery Data

Maximum Drawdown (DTW _m)(feet):	Approximate Flow Rate (GPM): 0.578 / 0.40
Recovery Type: <input type="checkbox"/> Fast <input checked="" type="checkbox"/> Slow	% Recovery = 40% in 4 hrs.
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	
MW-6 @ 1726 = 22.21 = 40.42 % recharged.	
Comments:	



Monitoring Well Inspection Log

FLD-104

Revision 0.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 07/16/16

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ATC Representative(s): Alex Flores

Project: Coulterville General Store

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: Z054000094

Task No: 01

Well ID: MW-1 Type: Flush Well
[flush well box, vault, or monument]

Well ID: MW-2 Type: Flush Well
[flush well box, vault, or monument]

Construction Detail Condition
[secure, good, poor, bad, yes, no, etc.]

Construction Detail Condition
[secure, good, poor, bad, yes, no, etc.]

Security Vault Secure

Security Vault Secure

Surface Seal Good

Surface Seal Good

Locking Cap Good

Locking Cap Good

ATC Lock None

ATC Lock None

Comments: 12" Emco box 2-15/16 bolts
installed new padlock

Comments: 12" Emco box 2-15/16 bolts
installed new padlock

Well ID: MW-3 Type: Flush Well
[flush well box, vault, or monument]

Well ID: MW-4 Type: Flush Well
[flush well box, vault, or monument]

Construction Detail Condition
[secure, good, poor, bad, yes, no, etc.]

Construction Detail Condition
[secure, good, poor, bad, yes, no, etc.]

Security Vault Secure

Security Vault Secure

Surface Seal Good

Surface Seal Good

Locking Cap Good

Locking Cap Good

ATC Lock None

ATC Lock NO

Comments: 12" Emco box 2-15/16 bolts
installed new padlock

Comments: 12" Emco box 2-15/16
bolts
Installed new padlock

Well ID: MW-5 Type: Flush Well
[flush well box, vault, or monument]

Well ID: MW-6 Type: Flush Well
[flush well box, vault, or monument]

Construction Detail Condition
[secure, good, poor, bad, yes, no, etc.]

Construction Detail Condition
[secure, good, poor, bad, yes, no, etc.]

Security Vault Secure

Security Vault Secure

Surface Seal Good

Surface Seal Good

Locking Cap Good

Locking Cap Good

ATC Lock NO

ATC Lock NO

Comments: 12" Emco box 2-15/16
bolts.
installed new padlock

Comments: 12" Emco box
2-15/16 bolts
installed new padlock



Field Report

FLD-100

Revision 0.0

Jul-16

Cardno Branch: Modesto, CA; 54	Date: 071416	Page 1 of 1
Cardno Representative(s): Alex Flores	Project: Broadway Valdez	Premier Hyundai of Oakland.
Role: Technician	Location: 2820 and 2855 Boradway, Oakland, CA	
Contact Information: Gabe Stivala	Project No: 118EM01075	Task No: 01
Scope of Work:	Weather: Sunny	Temperature: 68°F
<input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Assessment <input type="checkbox"/> Remediation <input type="checkbox"/> Closure	Contractor:	

Time:	Comments:
0812	Arrived to site. Check in with Service Manager.
	request vehicles move from MW-1-3 to get well access. HASP. JSA- Tailgate Safety meeting.
	Set up equipment decon. Alconox & rinseate water.
	Begin opening MW-1-6.
0910	Begin gauging: MW-5, 4, 6, 3, 1 & 2
1000	Completed well gauging - pH meter calibration YSI 556.
1015	Begin well development. MW-5, 4, 6 (Dewatered x2) - Very slow recharge - MW-3, MW-1 & 2, Dewatered MW-6 x2.
	install padlocks in all wells. Contained well development water in four drums. Labeled 55g drums.
	clean up - Load up.
1812	left site

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	Unit Inspection: <u>Pass</u> / Fail	
meter type: YSI 556	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	80
Pre / Post	99.1 100.0	6.94 7.00	4.02 4.00	1.410 1.413	219.1 220.0	Screen / Casing:	Good
Calibration Solution Expiration Date:	01/2017			Cable Unit Serial No.:	11277		
Copies To:	Gabe Stivala.			Handheld Unit Serial No.:			
				Project Manager:	Gabe Stivala		
				Reviewed By:			

ATTACHMENT D

MONITORING WELL SAMPLING LOGS

ATC Group Services LLC

915 Highland Pointe Drive Suite 205
Roseville, CA 95678
(916) 724-5247 Phone
(916) 724-5201 Fax

Service Request Form Well Development

Date of SRF 7/13/2016

Site Information

Site Name: Premier Hyundai of Oakland Project No. 118M01075 Task No. 1
Contact: Gabe Stivala Phone No. (925) 223-7123 Labor Code No. 09012

Scope of Work

1. Conduct tailgate H&S meeting.
2. Contact potential stakeholders and discuss scope, obtain contact info for future work.
3. Gauge and develop the wells: MW-1 through MW-6.
4. Open all wells before gauging and sampling, allow at least 15 min to equalize.
5. Gauge wells in order: MW-5, MW-4, MW-6, MW-3, MW-1 and MW-2
6. Develop all monitoring wells in the same order.
7. Waste water to be transferred to 55-gallon drums, take four drums.
8. Scan and send field forms to sara.bostick@atcassociates.com and gabe.stivala@atcassociates.com

Attachments

Budget _____ Workplan _____ Map X Chain-of Custody _____
Other: _____ Well ConstructDiagram _____

Project Manager Information

Work Requested By: Alex Flores Project Manager: Gabe Stivala
Date needed: 7/15/2016 Time Needed: _____ Hours Budgeted: _____

Field Completion Data

Was the scope of work completed?
If "No", describe work completed.

X Y N

Completed by: Alex Flores
Date Completed: 07/14/16

Flowmeter:
Time: _____ Gals
Oxidizer: _____ hrs
Time: _____ hrs
_____ hrs

Comments:



Monitoring Well Gauging Log

FLD-102

Revision 0.0

Jul-08

Cardno Branch: Modesto, CA; 54

Date: 071416

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Cardno Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Weather: Sunny

Temperature: 68°F

Water Level Meter Model/ID: Solinst 101/ 223605

Interface Probe Model/ID: N/A

Well ID	Casing Diameter (inches) / Type	Time of Well Cap Removal*	Time of Gauging*	Depth To LNAPL (feet)	Depth To Water (feet)	LNAPL Thickness (feet)	Total Well Depth (feet)	Other
MW-1	2" / PVC	0830-0850	0946		12.25		24.74	
MW-2	2" / PVC	↓	0954		12.51		24.83	
MW-3	2" / PVC		0940		12.11		24.54	
MW-4	2" / PVC		0917		11.97		29.91	
MW-5	2" / PVC		0910		9.13		29.90	
MW-6	2" / PVC		0925		10.92		29.87	

Comments:

MW-5, 4, 6, 3, 1 & 2.

Notes:

- * If top of screen is submerged, allow at least 15 minutes for well equilibration following well cap removal.
- All measurements to be reported to nearest 0.01 ft.
- ID = Identification.
- LNAPL = Light Non-Aqueous Phase Liquid.
- Sheen = Discontinuous, non-measurable thickness of LNAPL (less than 0.01 ft).
- Trace = Continuous, non-measurable thickness of LNAPL.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 07/14/16

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ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-1

Contractor:

Weather: Sunny

Temperature: 76°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 / 1223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 / 111577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom - 13Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 12.44 x CM 0.16 = 2.0 (CV)(gal) x 8.0 CV (gal) = 20.0 PV

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 24.74

Depth to Water (DTW)(feet): 12.25

Water Column (WC)(feet): 12.49

LNAPL Thickness (ft):

Purging Start Time: 1520

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1520	12.25	0.5	19.37	1.948	5.01	6.78	82.0	Begin hand bailing
1523	—	2	18.43	1.676	5.26	6.73	77.3	gas odor
1526	—	4	18.19	1.378	5.35	6.74	70.6	fine silt
1529	12.71	6	18.06	1.071	5.28	6.80	66.4	stop
1540	12.33	8	18.86	0.918	3.62	6.74	62.1	Begin purging bottom brownish silty H ₂ O
1543	—	10	18.71	0.845	3.21	6.71	57.7	gas odor

Sample Data

Sample ID: MW-1	Time of Sample:	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
No samples collected. well development.				

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 1.11

Approximate Flow Rate (GPM): 0.733

Recovery Type: Fast Slow

% Recovery = 9(1.1)

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: installed new padlock



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 071416

Page 1 of 1

ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-2

Contractor:

Weather: Sunny

Temperature: 75°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 1223608

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 11577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: Bailer.3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom-15Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 12.32 x CM 0.16 = 1.971 19 19.71

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

(CV)(gal) x 2.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 24.83

Depth to Water (DTW)(feet): 12.51

Water Column (WC)(feet): 12.32

LNAPL Thickness (ft):

Purging Start Time: 1616

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1616	12.51	0.5	17.44	2.557	4.51	6.55	72.8	Begin hand bailing
1619	—	2.5	17.29	2.649	4.07	6.62	70.1	gas odor
1622	—	4.5	17.20	2.580	3.39	6.67	67.6	fine silt-
1625	—	6.5	17.04	1.899	3.14	6.71	62.1	gas odor
1627	12.86	8.5	16.98	1.451	3.26	6.83	55.3	Stop hand bailing
1640	12.55	10.5	18.84	1.287	3.71	6.73	57.6	pump on @ bottom

Sample Data

Sample ID: MW-2

Time of Sample:

Filtered
(yes/no)

Preservatives

Analytical Parameters

Container Types, Volumes, & Quantities:

No samples collected. Well development.

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): 1.61

Approximate Flow Rate (GPM): 0.765

Recovery Type: Fast Slow

% Recovery = 86.93

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 071416

Page 1 of 2

ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-3

Contractor:

Weather: Sunny

Temperature: 75°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 11577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom-13'Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): 2.468 10 24.68

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC 15.43 x CM 0.16 (CV)(gal) x 2.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 24.54

Depth to Water (DTW)(feet): 12.11

Water Column (WC)(feet): 15.43

LNAPL Thickness (ft):

Purging Start Time: 1410

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1410	12.11	1.0	17.89	1.429	2.99	8.11	39.8	Begin hand bailing
1416	—	3.5	17.66	1.194	3.07	8.26	38.1	brownish silty H ₂ O
1421	—	6.0	17.59	1.111	3.15	8.16	30.7	No odor
1426	12.28	8.5	17.46	1.152	3.26	7.81	34.6	Stop hand bailing
1440	12.13	11.0	18.14	1.190	3.98	7.59	43.1	Begin pumping well pump & both
1444	12.26	13.5	17.89	1.109	4.06	7.52	41.3	brownish silty H ₂ O

Sample Data

Sample ID: MW-	Time of Sample:	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
No samples collected. Well development.				

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): 0.19

Approximate Flow Rate (GPM): 0.65

Recovery Type: Fast Slow

% Recovery = 98.77

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: Installed new padlock.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 07/14/16

Page 1 of 1

ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW-4

Contractor:

Weather: Sunny

Temperature: 72 °F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 / 223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 / 11277

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer.3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other:

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 17.94 x CM 0.16 = 2.870 (CV)(gal) x 8.0 CV (gal) = 28.70 PV

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Monitoring Measurements

Depth to LNAPL (feet): Total Well Depth (feet): 29.91

Depth to Water (DTW)(feet): 11.97 Water Column (WC)(feet): 17.94

LNAPL Thickness (ft): Purging Start Time: 1142

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1142	11.97	1g	21.34	1.504	2.60	7.52	56.9	Begin hand bailing
1149	—	4g	20.91	2.393	2.09	7.41	67.1	light brownish H ₂ O
1155	—	7g	20.42	1.599	2.88	7.38	59.9	swirl No odor
1201	21.23	10g	20.33	1.877	3.01	7.33	62.0	light brownish H ₂ O stop hand bailing
1216	17.88	13g	21.68	1.539	3.65	7.24	55.6	Begin pumping
1222	—	16g	21.49	1.352	3.96	7.20	54.1	light brownish-pink silt

Sample Data

Sample ID: MW-4 Time of Sample: Filtered (yes/no) Preservatives Analytical Parameters

Container Types, Volumes, & Quantities:

No samples collected. Well development.

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): 16.32 Approximate Flow Rate (GPM): 0.564Recovery Type: Fast Slow

% Recovery = 67.06 in 15 minutes

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: installed new padlock



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 071416

Page 1 of 2

ATC Representative(s): Alex Flores

Project: Broadway Valdez

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: 118EM01075

Task No: 01

Well ID: MW- 5

Contractor:

Weather: Sunny

Temperature: 70 °F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 1223605

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 111577

Decontamination Method: Alconox/ Rinse

Purging Method: Disp. Bailer Centrifugal Pump Submersible Pump Waterra Other: PVC bailer.3 Well Volumes Low Flow Micro Purge Intake Depth (feet below TOC) bottom, 29.9'Sampling Method: Teflon Bailer Disposable Bailer Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 20.77 x CM 0.16 = 3.323 10 (CV)(gal) x 1.0 CV (gal) = 33.23 PV

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 29.90

Depth to Water (DTW)(feet): 9.13

Water Column (WC)(feet): 20.77

LNAPL Thickness (ft):

Purging Start Time: 1015

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1015	9.13	0.5	20.61	2.813	3.51	6.90	138.4	Begin hand bailing light brownish H ₂ O
1020	—	3.8	20.25	1.989	3.66	7.01	120.1	No odor
1024	—	7.1	20.18	1.576	3.80	7.09	114.6	light brownish H ₂ O
1028	20.72	10.4	20.11	1.601	3.91	7.12	116.9	stop hand bailing
1040	18.61	13.7	20.24	1.711	3.98	7.20	110.1	Begin pumping Pump @ bottom light grayish H ₂ O
1047	20.00	17.0	20.88	1.632	3.79	7.24	105.6	No odor

Sample Data

Sample ID: MW- 5 Time of Sample: _____ Filtered (yes/no) _____ Preservatives _____ Analytical Parameters _____

Container Types, Volumes, & Quantities: _____

No samples collected - Well development.

Well Recovery Data

Maximum Drawdown (DTW_m)(feet): _____ Approximate Flow Rate (GPM): 0.56

Recovery Type: Fast Slow % Recovery = 45.64 in 10 min.

Purge Water Disposition (Attach Drum Inventory Log - FLD 108): _____

Comments: installed new padlock 12" emco 2 bolt (15/16).



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-16

ATC Branch: 54; Modesto, CA	Date: 07/14/16	Page 1 of 2
ATC Representative(s): Alex Flores	Project: Broadway Valdez	
	Location: 2820 and 2855 Broadway, Oakland, CA	
Contact Information: Gabe Stivala	Project No: 118EM01075	Task No: 01
Well ID: MW- 6	Contractor:	
	Weather:	Temperature: 74 °F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101 1223605	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 111577	Decontamination Method: Alconox/ Rinse
Purging Method: <input type="checkbox"/> Disp. Bailer <input checked="" type="checkbox"/> Centrifugal Pump <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Waterra Other: <input checked="" type="checkbox"/> PVC bailer	
3 Well Volumes <input type="checkbox"/> Low Flow <input type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <input type="checkbox"/>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV): 3.032 10
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC 18.95 x CM 0.16 = 3.032 (CV)(gal) x 8.0 CV (gal) = 30.32 PV

Monitoring Measurements

Depth to LNAPL (feet):	Total Well Depth (feet): 29.87
Depth to Water (DTW)(feet): 10.92	Water Column (WC)(feet): 18.95
LNAPL Thickness (ft):	Purging Start Time:

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (mS/cm) (± 5%)	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1310	10.92	1g	20.79	3.487	4.21	7.93	64.7	Clear H ₂ O
1315	—	4.1	20.57	2.496	4.87	8.09	58.3	No odor.
1322	—	7.2	20.25	2.450	4.91	8.07	59.2	light brownish H ₂ O
1328	—	10.3	20.23	2.458	5.22	8.05	59.9	fine silt.
1333	Dry	13.3	20.29	2.471	4.97	7.91	66.2	well dry
1353	25.91							

Sample Data

Sample ID: MW- 6	Time of Sample:	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
No samples collected. well development.				

Well Recovery Data

Maximum Drawdown (DTW _m)(feet):	Approximate Flow Rate (GPM): 0.578 / 0.40
Recovery Type: <input type="checkbox"/> Fast <input checked="" type="checkbox"/> Slow	% Recovery = 40% in 4 hrs.
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	
MW-6 @ 1726 = 22.21 = 40.42 % recharged.	
Comments:	



Monitoring Well Inspection Log

FLD-104

Revision 0.0

Jul-16

ATC Branch: 54; Modesto, CA

Date: 07/14/16

Page 1 of 1

ATC Representative(s): Alex Flores

Project: Coulterville General Store

Location: 2820 and 2855 Broadway, Oakland, CA

Contact Information: Gabe Stivala

Project No: Z054000094

Task No: 01

Well ID: MW-1 Type: Flush Well [flush well] box, vault, or monument

Well ID: MW-2 Type: Flush Well [flush well] box, vault, or monument

Construction Detail	Condition
	[secure, good, poor, bad, yes, no, etc.]
Security Vault	Secure
Surface Seal	Good
Locking Cap	Good
ATC Lock	None

Construction Detail	Condition
	[secure, good, poor, bad, yes, no, etc.]
Security Vault	Secure
Surface Seal	Good
Locking Cap	Good
ATC Lock	None

Comments: 12" Emco box 2-15/16 bolts installed new padlock

Comments: 12" Emco box 2-15/16 bolts installed new padlock

Well ID: MW-3 Type: Flush Well [flush well] box, vault, or monument

Well ID: MW-4 Type: Flush Well [flush well] box, vault, or monument

Construction Detail	Condition
	[secure, good, poor, bad, yes, no, etc.]
Security Vault	Secure
Surface Seal	Good
Locking Cap	Good
ATC Lock	None

Construction Detail	Condition
	[secure, good, poor, bad, yes, no, etc.]
Security Vault	Secure
Surface Seal	Good
Locking Cap	Good
ATC Lock	NO

Comments: 12" Emco box 2-15/16 bolts installed new padlock

Comments: 12" Emco box 2-15/16 bolts installed new padlock

Well ID: MW-5 Type: Flush Well [flush well] box, vault, or monument

Well ID: MW-6 Type: Flush Well [flush well] box, vault, or monument

Construction Detail	Condition
	[secure, good, poor, bad, yes, no, etc.]
Security Vault	Secure
Surface Seal	Good
Locking Cap	Good
ATC Lock	NO

Construction Detail	Condition
	[secure, good, poor, bad, yes, no, etc.]
Security Vault	Secure
Surface Seal	Good
Locking Cap	Good
ATC Lock	NO

Comments: 12" Emco box 2-15/16 bolts installed new padlock

Comments: 12" Emco box 2-15/16 bolts installed new padlock



Field Report

FLD-100

Revision 0.0

Jul-16

Cardno Branch: Modesto, CA; 54	Date: 071416	Page 1 of 1
Cardno Representative(s): Alex Flores	Project: Broadway Valdez	Premier Hyundai of Oakland.
Role: Technician	Location: 2820 and 2855 Boradway, Oakland, CA	
Contact Information: Gabe Stivala	Project No: 118EM01075	Task No: 01
Scope of Work:	Weather: Sunny	Temperature: 68°F
<input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Assessment <input type="checkbox"/> Remediation <input type="checkbox"/> Closure	Contractor:	

Time:	Comments:
0812	Arrived to site. Check in with Service Manager.
	request vehicles move from MW-1-3 to get well access. HASP. JSA- Tailgate Safety meeting.
	Set up equipment decon. Alconox & rinseate water.
	Begin opening MW-1-6.
0910	Begin gauging: MW-5, 4, 6, 3, 1 & 2
1000	Completed well gauging - pH meter calibration YSI 556.
1015	Begin well development. MW-5, 4, 6 (Dewatered x2) - Very slow recharge - MW-3, MW-1 & 2, Dewatered MW-6 x2.
	install padlocks in all wells. Contained well development water in four drums. Labeled 55g drums.
	clean up - load up.
1812	left site

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	Unit Inspection: <u>Pass</u> / Fail	
meter type: YSI 556	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	80
Pre / Post	99.1 / 100.0	6.94 / 7.00	4.02 / 4.00	1.410 / 1.413	219.1 / 220.0	Screen / Casing:	Good
Calibration Solution Expiration Date:	01/2017			Cable Unit Serial No.:	11277		
Copies To:	Gabe Stivala.			Handheld Unit Serial No.:			
				Project Manager:	Gabe Stivala		
				Reviewed By:			

ATTACHMENT E

**LABORATORY ANALYTICAL DATA REPORTS
AND CHAIN OF CUSTODY DOCUMENTS**

Technical Report for

ATC Group Services

Premier Hyundai 2820 Broadway Oakland

SGS Accutest Job Number: C46423

Sampling Dates: 07/05/16 - 07/06/16



Report to:

ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA
gabe.stivala@atcassociates.com

ATTN: Gabe Stivala

Total number of pages in report: 88



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

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1

2

3

4

5

6

7



Sample Summary

ATC Group Services

Job No: C46423

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46423-1	07/05/16	10:40	07/06/16	SO	Soil	B24-5'
C46423-2	07/05/16	10:45	07/06/16	SO	Soil	B24-10'
C46423-3	07/05/16	10:50	07/06/16	SO	Soil	B24-15'
C46423-4	07/05/16	11:00	07/06/16	SO	Soil	B24-20'
C46423-5	07/05/16	11:05	07/06/16	SO	Soil	B24-25'
C46423-6	07/06/16	08:15	07/06/16	SO	Soil	B25-5'
C46423-7	07/06/16	08:20	07/06/16	SO	Soil	B25-10'
C46423-8	07/06/16	08:25	07/06/16	SO	Soil	B25-15'
C46423-9	07/06/16	08:31	07/06/16	SO	Soil	B25-20'
C46423-10	07/06/16	08:40	07/06/16	SO	Soil	B25-25'
C46423-11	07/06/16	09:00	07/06/16	SO	Soil	B25-30'
C46423-12	07/06/16	10:50	07/06/16	SO	Soil	B26-5'
C46423-13	07/06/16	10:58	07/06/16	SO	Soil	B26-10'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ATC Group Services

Job No: C46423

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46423-14	07/06/16	11:05	07/06/16	SO	Soil	B26-15'
C46423-15	07/06/16	11:10	07/06/16	SO	Soil	B26-20'
C46423-16	07/06/16	11:15	07/06/16	SO	Soil	B26-25'
C46423-17	07/06/16	11:20	07/06/16	SO	Soil	B26-30'
C46423-18	07/05/16	00:00	07/06/16	SO	Soil	COMPB24(5-25)
C46423-19	07/05/16	00:00	07/06/16	SO	Soil	COMPB25(5-25)
C46423-20	07/05/16	00:00	07/06/16	SO	Soil	COMPB26(5-25)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C46423
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/05/16 thru 07/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

C46423-3 B24-15'

No hits reported in this sample.

C46423-4 B24-20'

No hits reported in this sample.

C46423-5 B24-25'

No hits reported in this sample.

C46423-8 B25-15'

Carbon tetrachloride	23.7	4.9	0.49	ug/kg	SW846 8260B
----------------------	------	-----	------	-------	-------------

C46423-9 B25-20'

Chloroform	2.0 J	5.0	0.50	ug/kg	SW846 8260B
Carbon tetrachloride	21.9	5.0	0.50	ug/kg	SW846 8260B

C46423-10 B25-25'

Carbon tetrachloride	3.3 J	4.8	0.48	ug/kg	SW846 8260B
Methyl chloride	2.0 J	4.8	0.95	ug/kg	SW846 8260B

C46423-14 B26-15'

No hits reported in this sample.

C46423-15 B26-20'

Carbon tetrachloride	0.90 J	4.8	0.48	ug/kg	SW846 8260B
----------------------	--------	-----	------	-------	-------------

C46423-16 B26-25'

Chloroform	0.87 J	4.8	0.48	ug/kg	SW846 8260B
Carbon tetrachloride	8.9	4.8	0.48	ug/kg	SW846 8260B

C46423-18 COMPB24(5-25)

TPH (C10-C28)	16.0	3.3	1.5	mg/kg	SW846 8015B M
TPH (> C28-C40)	2.78 J	3.3	1.3	mg/kg	SW846 8015B M
Arsenic	4.1	1.8		mg/kg	SW846 6010B
Barium	125	18		mg/kg	SW846 6010B

Summary of Hits

Job Number: C46423
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/05/16 thru 07/06/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium		46.0	0.91		mg/kg	SW846 6010B
Cobalt		8.3	0.91		mg/kg	SW846 6010B
Copper		20.5	2.3		mg/kg	SW846 6010B
Lead		5.6	1.8		mg/kg	SW846 6010B
Mercury		0.056	0.015		mg/kg	SW846 7471A
Nickel		59.4	0.91		mg/kg	SW846 6010B
Vanadium		33.6	0.91		mg/kg	SW846 6010B
Zinc		42.7	1.8		mg/kg	SW846 6010B
C46423-19 COMPB25(5-25)						
TPH (C10-C28)		13.7	3.3	1.5	mg/kg	SW846 8015B M
TPH (> C28-C40)		2.09 J	3.3	1.3	mg/kg	SW846 8015B M
Arsenic		4.4	1.8		mg/kg	SW846 6010B
Barium		168	18		mg/kg	SW846 6010B
Chromium		54.8	0.92		mg/kg	SW846 6010B
Cobalt		10.4	0.92		mg/kg	SW846 6010B
Copper		23.8	2.3		mg/kg	SW846 6010B
Lead		10.3	1.8		mg/kg	SW846 6010B
Mercury		0.068	0.015		mg/kg	SW846 7471A
Nickel		71.2	0.92		mg/kg	SW846 6010B
Vanadium		35.1	0.92		mg/kg	SW846 6010B
Zinc		47.8	1.8		mg/kg	SW846 6010B
C46423-20 COMPB26(5-25)						
TPH (C10-C28)		7.29	3.3	1.5	mg/kg	SW846 8015B M
TPH (> C28-C40)		1.53 J	3.3	1.3	mg/kg	SW846 8015B M
Arsenic		4.4	1.9		mg/kg	SW846 6010B
Barium		124	19		mg/kg	SW846 6010B
Chromium		41.2	0.94		mg/kg	SW846 6010B
Cobalt		10.6	0.94		mg/kg	SW846 6010B
Copper		19.7	2.4		mg/kg	SW846 6010B
Lead		6.6	1.9		mg/kg	SW846 6010B
Mercury		0.025	0.015		mg/kg	SW846 7471A
Nickel		50.3	0.94		mg/kg	SW846 6010B
Vanadium		33.2	0.94		mg/kg	SW846 6010B
Zinc		41.3	1.9		mg/kg	SW846 6010B

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: B24-15'		Date Sampled: 07/05/16
Lab Sample ID: C46423-3		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49952.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #1	Initial Weight
Run #1	5.07 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	39	9.9	ug/kg	
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-86-1	Bromobenzene	ND	4.9	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	0.49	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	0.49	ug/kg	
75-25-2	Bromoform	ND	4.9	0.49	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	0.49	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	0.49	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.49	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.99	ug/kg	
67-66-3	Chloroform	ND	4.9	0.49	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	0.49	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	0.49	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	0.49	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	0.49	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	0.49	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	0.49	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	0.49	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	0.49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	0.49	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	0.49	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	0.49	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	0.49	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.9	0.99	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.49	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	0.49	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	0.49	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	0.49	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B24-15'	Date Sampled:	07/05/16
Lab Sample ID:	C46423-3	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	0.49	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	0.49	ug/kg	
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	0.99	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	0.49	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	4.9	0.99	ug/kg	
74-87-3	Methyl chloride	ND	4.9	0.99	ug/kg	
74-95-3	Methylene bromide	ND	4.9	0.49	ug/kg	
75-09-2	Methylene chloride	ND	20	4.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.99	ug/kg	
91-20-3	Naphthalene	ND	4.9	0.99	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	0.49	ug/kg	
100-42-5	Styrene	ND	4.9	0.49	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	0.49	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	39	9.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	0.49	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	0.49	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	0.49	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	0.49	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.49	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	0.99	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	0.99	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	0.99	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	0.59	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	0.49	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	0.99	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	0.99	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		72-140%
2037-26-5	Toluene-D8	96%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B24-15'	
Lab Sample ID: C46423-3	Date Sampled: 07/05/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B24-20'		Date Sampled: 07/05/16
Lab Sample ID: C46423-4		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49953.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #1	Initial Weight
Run #1	5.23 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	9.6	ug/kg	
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-86-1	Bromobenzene	ND	4.8	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.48	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.48	ug/kg	
75-25-2	Bromoform	ND	4.8	0.48	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.48	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.48	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.48	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.96	ug/kg	
67-66-3	Chloroform	ND	4.8	0.48	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.48	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.48	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.48	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.48	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.48	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.48	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	0.48	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.8	0.96	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	0.48	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	0.48	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B24-20'	Date Sampled:	07/05/16
Lab Sample ID:	C46423-4	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	0.48	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.8	0.48	ug/kg	
591-78-6	2-Hexanone	ND	19	1.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	0.48	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	1.9	ug/kg	
74-83-9	Methyl bromide	ND	4.8	0.96	ug/kg	
74-87-3	Methyl chloride	ND	4.8	0.96	ug/kg	
74-95-3	Methylene bromide	ND	4.8	0.48	ug/kg	
75-09-2	Methylene chloride	ND	19	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	1.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	0.96	ug/kg	
91-20-3	Naphthalene	ND	4.8	0.96	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	0.48	ug/kg	
100-42-5	Styrene	ND	4.8	0.48	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	0.48	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	38	9.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.48	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.48	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	0.96	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.96	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.96	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	0.57	ug/kg	
108-88-3	Toluene	ND	4.8	0.48	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	0.48	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.96	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.96	ug/kg	
1330-20-7	Xylene (total)	ND	9.6	0.96	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		72-140%
2037-26-5	Toluene-D8	96%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B24-20'	
Lab Sample ID: C46423-4	Date Sampled: 07/05/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		81-115%

(a) All results reported on a wet weight basis.

(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B24-25' Lab Sample ID: C46423-5 Matrix: SO - Soil Method: SW846 8260B Project: Premier Hyundai 2820 Broadway Oakland	Date Sampled: 07/05/16 Date Received: 07/06/16 Percent Solids: n/a ^a
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VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B25-15'		Date Sampled: 07/06/16
Lab Sample ID: C46423-8		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49955.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #	Initial Weight
Run #1	5.11 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	39	9.8	ug/kg	
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-86-1	Bromobenzene	ND	4.9	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	0.49	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	0.49	ug/kg	
75-25-2	Bromoform	ND	4.9	0.49	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	0.49	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	0.49	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.49	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.98	ug/kg	
67-66-3	Chloroform	ND	4.9	0.49	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	0.49	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	0.49	ug/kg	
56-23-5	Carbon tetrachloride	23.7	4.9	0.49	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	0.49	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	0.49	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	0.49	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	0.49	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	0.49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	0.49	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	0.49	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	0.49	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	0.49	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.9	0.98	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.49	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	0.49	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	0.49	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	0.49	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B25-15'	
Lab Sample ID: C46423-8	Date Sampled: 07/06/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B25-20'		Date Sampled: 07/06/16
Lab Sample ID: C46423-9		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49956.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #	Initial Weight
Run #1	5.01 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	2.0	5.0	0.50	ug/kg	J
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	21.9	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B25-20'	
Lab Sample ID: C46423-9	Date Sampled: 07/06/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B25-25'		Date Sampled: 07/06/16
Lab Sample ID: C46423-10		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49957.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #1	Initial Weight
Run #1	5.24 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	9.5	ug/kg	
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-86-1	Bromobenzene	ND	4.8	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.48	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.48	ug/kg	
75-25-2	Bromoform	ND	4.8	0.48	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.48	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.48	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.48	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.95	ug/kg	
67-66-3	Chloroform	ND	4.8	0.48	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.48	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.48	ug/kg	
56-23-5	Carbon tetrachloride	3.3	4.8	0.48	ug/kg	J
75-34-3	1,1-Dichloroethane	ND	4.8	0.48	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.48	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.48	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.48	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	0.48	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.8	0.95	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	0.48	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	0.48	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B25-25'	
Lab Sample ID: C46423-10	Date Sampled: 07/06/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B26-15'		Date Sampled: 07/06/16
Lab Sample ID: C46423-14		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49958.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #	Initial Weight
Run #1	5.03 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	9.9	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.99	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	5.0	0.99	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B26-15'	
Lab Sample ID: C46423-14	Date Sampled: 07/06/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B26-20'		Date Sampled: 07/06/16
Lab Sample ID: C46423-15		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49959.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #1	Initial Weight
Run #1	5.22 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	9.6	ug/kg	
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-86-1	Bromobenzene	ND	4.8	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.48	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.48	ug/kg	
75-25-2	Bromoform	ND	4.8	0.48	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.48	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.48	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.48	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.96	ug/kg	
67-66-3	Chloroform	ND	4.8	0.48	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.48	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.48	ug/kg	
56-23-5	Carbon tetrachloride	0.90	4.8	0.48	ug/kg	J
75-34-3	1,1-Dichloroethane	ND	4.8	0.48	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.48	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.48	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.48	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	0.48	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.8	0.96	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	0.48	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	0.48	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B26-20'	Date Sampled:	07/06/16
Lab Sample ID:	C46423-15	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	0.48	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.8	0.48	ug/kg	
591-78-6	2-Hexanone	ND	19	1.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	0.48	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	1.9	ug/kg	
74-83-9	Methyl bromide	ND	4.8	0.96	ug/kg	
74-87-3	Methyl chloride	ND	4.8	0.96	ug/kg	
74-95-3	Methylene bromide	ND	4.8	0.48	ug/kg	
75-09-2	Methylene chloride	ND	19	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	1.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	0.96	ug/kg	
91-20-3	Naphthalene	ND	4.8	0.96	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	0.48	ug/kg	
100-42-5	Styrene	ND	4.8	0.48	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	0.48	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	38	9.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.48	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.48	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	0.96	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.96	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.96	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	0.57	ug/kg	
108-88-3	Toluene	ND	4.8	0.48	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	0.48	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.96	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.96	ug/kg	
1330-20-7	Xylene (total)	ND	9.6	0.96	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-140%
2037-26-5	Toluene-D8	98%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B26-20'	
Lab Sample ID: C46423-15	Date Sampled: 07/06/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B26-25'		Date Sampled: 07/06/16
Lab Sample ID: C46423-16		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49960.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #1	Initial Weight
Run #1	5.21 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	9.6	ug/kg	
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-86-1	Bromobenzene	ND	4.8	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.48	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.48	ug/kg	
75-25-2	Bromoform	ND	4.8	0.48	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.48	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.48	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.48	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.96	ug/kg	
67-66-3	Chloroform	0.87	4.8	0.48	ug/kg	J
95-49-8	o-Chlorotoluene	ND	4.8	0.48	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.48	ug/kg	
56-23-5	Carbon tetrachloride	8.9	4.8	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.48	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.48	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.48	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.48	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	0.48	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.8	0.96	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	0.48	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	0.48	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B26-25'		Date Sampled: 07/06/16
Lab Sample ID: C46423-16		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMPB24(5-25)	Date Sampled:	07/05/16
Lab Sample ID:	C46423-18	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61755.D	1	07/07/16	JT	n/a	n/a	VM1857
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.01 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1700	420	ug/kg	
71-43-2	Benzene	ND	210	21	ug/kg	
108-86-1	Bromobenzene	ND	210	21	ug/kg	
74-97-5	Bromochloromethane	ND	210	21	ug/kg	
75-27-4	Bromodichloromethane	ND	210	21	ug/kg	
75-25-2	Bromoform	ND	210	21	ug/kg	
104-51-8	n-Butylbenzene	ND	210	21	ug/kg	
135-98-8	sec-Butylbenzene	ND	210	21	ug/kg	
98-06-6	tert-Butylbenzene	ND	210	21	ug/kg	
108-90-7	Chlorobenzene	ND	210	21	ug/kg	
75-00-3	Chloroethane	ND	210	42	ug/kg	
67-66-3	Chloroform	ND	210	21	ug/kg	
95-49-8	o-Chlorotoluene	ND	210	21	ug/kg	
106-43-4	p-Chlorotoluene	ND	210	21	ug/kg	
56-23-5	Carbon tetrachloride	ND	210	21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	210	21	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	210	21	ug/kg	
563-58-6	1,1-Dichloropropene	ND	210	21	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	210	58	ug/kg	
106-93-4	1,2-Dibromoethane	ND	210	21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	210	21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	210	21	ug/kg	
142-28-9	1,3-Dichloropropane	ND	210	21	ug/kg	
108-20-3	Di-Isopropyl ether	ND	210	21	ug/kg	
594-20-7	2,2-Dichloropropane	ND	210	21	ug/kg	
124-48-1	Dibromochloromethane	ND	210	21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	210	42	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	210	46	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	210	21	ug/kg	
541-73-1	m-Dichlorobenzene	ND	210	21	ug/kg	
95-50-1	o-Dichlorobenzene	ND	210	21	ug/kg	
106-46-7	p-Dichlorobenzene	ND	210	21	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMPB24(5-25)	
Lab Sample ID: C46423-18	Date Sampled: 07/05/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		87-113%
460-00-4	4-Bromofluorobenzene	106%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMPB24(5-25)	Date Sampled: 07/05/16
Lab Sample ID: C46423-18	Date Received: 07/06/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5172.D	1	07/09/16	MT	07/07/16	OP14603	GBB170
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	16.0	3.3	1.5	mg/kg	
	TPH (> C28-C40)	2.78	3.3	1.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMPB24(5-25)	Date Sampled: 07/05/16
Lab Sample ID: C46423-18	Date Received: 07/06/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	4.1	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Barium	125	18	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	< 0.91	0.91	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	< 0.91	0.91	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	46.0	0.91	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	8.3	0.91	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Copper	20.5	2.3	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Lead	5.6	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.056	0.015	mg/kg	1	07/13/16	07/13/16 EB	SW846 7471A ²	SW846 7471A ⁵
Molybdenum	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Nickel	59.4	0.91	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Silver	< 0.91	0.91	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ³	SW846 3050B ⁴
Thallium	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	33.6	0.91	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	42.7	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA6001
- (2) Instrument QC Batch: MA6003
- (3) Instrument QC Batch: MA6017
- (4) Prep QC Batch: MP11595
- (5) Prep QC Batch: MP11603

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	COMPB25(5-25)	Date Sampled:	07/05/16
Lab Sample ID:	C46423-19	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61756.D	1	07/07/16	JT	n/a	n/a	VM1857
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.73 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1700	440	ug/kg	
71-43-2	Benzene	ND	220	22	ug/kg	
108-86-1	Bromobenzene	ND	220	22	ug/kg	
74-97-5	Bromochloromethane	ND	220	22	ug/kg	
75-27-4	Bromodichloromethane	ND	220	22	ug/kg	
75-25-2	Bromoform	ND	220	22	ug/kg	
104-51-8	n-Butylbenzene	ND	220	22	ug/kg	
135-98-8	sec-Butylbenzene	ND	220	22	ug/kg	
98-06-6	tert-Butylbenzene	ND	220	22	ug/kg	
108-90-7	Chlorobenzene	ND	220	22	ug/kg	
75-00-3	Chloroethane	ND	220	44	ug/kg	
67-66-3	Chloroform	ND	220	22	ug/kg	
95-49-8	o-Chlorotoluene	ND	220	22	ug/kg	
106-43-4	p-Chlorotoluene	ND	220	22	ug/kg	
56-23-5	Carbon tetrachloride	ND	220	22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	220	22	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	220	22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	220	22	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	220	61	ug/kg	
106-93-4	1,2-Dibromoethane	ND	220	22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	220	22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	220	22	ug/kg	
142-28-9	1,3-Dichloropropane	ND	220	22	ug/kg	
108-20-3	Di-Isopropyl ether	ND	220	22	ug/kg	
594-20-7	2,2-Dichloropropane	ND	220	22	ug/kg	
124-48-1	Dibromochloromethane	ND	220	22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	220	44	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	220	48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	220	22	ug/kg	
541-73-1	m-Dichlorobenzene	ND	220	22	ug/kg	
95-50-1	o-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	p-Dichlorobenzene	ND	220	22	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMPB25(5-25)	Date Sampled:	07/05/16
Lab Sample ID:	C46423-19	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	220	22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	220	22	ug/kg	
100-41-4	Ethylbenzene	ND	220	22	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	220	22	ug/kg	
591-78-6	2-Hexanone	ND	870	87	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	44	ug/kg	
98-82-8	Isopropylbenzene	ND	220	22	ug/kg	
99-87-6	p-Isopropyltoluene	ND	220	22	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	870	87	ug/kg	
74-83-9	Methyl bromide	ND	220	44	ug/kg	
74-87-3	Methyl chloride	ND	220	44	ug/kg	
74-95-3	Methylene bromide	ND	220	22	ug/kg	
75-09-2	Methylene chloride	ND	870	220	ug/kg	
78-93-3	Methyl ethyl ketone	ND	870	87	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	220	44	ug/kg	
91-20-3	Naphthalene	ND	220	44	ug/kg	
103-65-1	n-Propylbenzene	ND	220	22	ug/kg	
100-42-5	Styrene	ND	220	22	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	220	22	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1700	440	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	220	22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	220	22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	220	22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	220	22	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	220	22	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	220	44	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	220	44	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	220	44	ug/kg	
127-18-4	Tetrachloroethylene	ND	220	26	ug/kg	
108-88-3	Toluene	ND	220	22	ug/kg	
79-01-6	Trichloroethylene	ND	220	22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	220	44	ug/kg	
75-01-4	Vinyl chloride	ND	220	44	ug/kg	
1330-20-7	Xylene (total)	ND	440	44	ug/kg	
	TPH-GRO (C6-C10)	ND	4400	2200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		72-140%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMPB25(5-25)	
Lab Sample ID: C46423-19	Date Sampled: 07/05/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		87-113%
460-00-4	4-Bromofluorobenzene	105%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMPB25(5-25)	Date Sampled:	07/05/16
Lab Sample ID:	C46423-19	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015B M SW846 3550B		
Project:	Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5173.D	1	07/09/16	MT	07/07/16	OP14603	GBB170
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	13.7	3.3	1.5	mg/kg	
	TPH (> C28-C40)	2.09	3.3	1.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	74%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMPB25(5-25)	Date Sampled: 07/05/16
Lab Sample ID: C46423-19	Date Received: 07/06/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	4.4	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Barium	168	18	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	< 0.92	0.92	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	< 0.92	0.92	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	54.8	0.92	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	10.4	0.92	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Copper	23.8	2.3	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Lead	10.3	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.068	0.015	mg/kg	1	07/13/16	07/13/16 EB	SW846 7471A ²	SW846 7471A ⁵
Molybdenum	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Nickel	71.2	0.92	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Silver	< 0.92	0.92	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ³	SW846 3050B ⁴
Thallium	< 1.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	35.1	0.92	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	47.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA6001
- (2) Instrument QC Batch: MA6003
- (3) Instrument QC Batch: MA6017
- (4) Prep QC Batch: MP11595
- (5) Prep QC Batch: MP11603

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID: COMPB26(5-25)		Date Sampled: 07/05/16
Lab Sample ID: C46423-20		Date Received: 07/06/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61757.D	1	07/07/16	JT	n/a	n/a	VM1857
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.24 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1900	480	ug/kg	
71-43-2	Benzene	ND	240	24	ug/kg	
108-86-1	Bromobenzene	ND	240	24	ug/kg	
74-97-5	Bromochloromethane	ND	240	24	ug/kg	
75-27-4	Bromodichloromethane	ND	240	24	ug/kg	
75-25-2	Bromoform	ND	240	24	ug/kg	
104-51-8	n-Butylbenzene	ND	240	24	ug/kg	
135-98-8	sec-Butylbenzene	ND	240	24	ug/kg	
98-06-6	tert-Butylbenzene	ND	240	24	ug/kg	
108-90-7	Chlorobenzene	ND	240	24	ug/kg	
75-00-3	Chloroethane	ND	240	48	ug/kg	
67-66-3	Chloroform	ND	240	24	ug/kg	
95-49-8	o-Chlorotoluene	ND	240	24	ug/kg	
106-43-4	p-Chlorotoluene	ND	240	24	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	24	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	24	ug/kg	
563-58-6	1,1-Dichloropropene	ND	240	24	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	240	67	ug/kg	
106-93-4	1,2-Dibromoethane	ND	240	24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	24	ug/kg	
142-28-9	1,3-Dichloropropane	ND	240	24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	240	24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	240	24	ug/kg	
124-48-1	Dibromochloromethane	ND	240	24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	240	48	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	24	ug/kg	
541-73-1	m-Dichlorobenzene	ND	240	24	ug/kg	
95-50-1	o-Dichlorobenzene	ND	240	24	ug/kg	
106-46-7	p-Dichlorobenzene	ND	240	24	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMPB26(5-25)	
Lab Sample ID: C46423-20	Date Sampled: 07/05/16
Matrix: SO - Soil	Date Received: 07/06/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		87-113%
460-00-4	4-Bromofluorobenzene	104%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMPB26(5-25)	Date Sampled:	07/05/16
Lab Sample ID:	C46423-20	Date Received:	07/06/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015B M SW846 3550B		
Project:	Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5174.D	1	07/09/16	MT	07/07/16	OP14603	GBB170
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	7.29	3.3	1.5	mg/kg	
	TPH (> C28-C40)	1.53	3.3	1.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	72%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMPB26(5-25)	Date Sampled: 07/05/16
Lab Sample ID: C46423-20	Date Received: 07/06/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 1.9	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	4.4	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Barium	124	19	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	< 0.94	0.94	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	< 0.94	0.94	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	41.2	0.94	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	10.6	0.94	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Copper	19.7	2.4	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Lead	6.6	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.025	0.015	mg/kg	1	07/13/16	07/13/16 EB	SW846 7471A ²	SW846 7471A ⁵
Molybdenum	< 1.9	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Nickel	50.3	0.94	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	< 1.9	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Silver	< 0.94	0.94	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ³	SW846 3050B ⁴
Thallium	< 1.9	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	33.2	0.94	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	41.3	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA6001
- (2) Instrument QC Batch: MA6003
- (3) Instrument QC Batch: MA6017
- (4) Prep QC Batch: MP11595
- (5) Prep QC Batch: MP11603

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Report To						Analysis Request														
Alt: <u>Gabe Stivda</u> Company: <u>ATC Group Services</u> Address: <u>915 Highland Pointe Dr, Suite 250, Roseville</u> Email: <u>gabe.stivda@atcassociates.com</u> Bill To: _____ Sampled By: <u>JK</u> Alt: _____ Phone: <u>916-724-5247</u>						<input type="checkbox"/> Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> EPA 8260C <input type="checkbox"/> EPA 8260D <input type="checkbox"/> EPA 8260E <input type="checkbox"/> EPA 8260F <input type="checkbox"/> EPA 8260G <input type="checkbox"/> EPA 8260H <input type="checkbox"/> EPA 8260I <input type="checkbox"/> EPA 8260J <input type="checkbox"/> EPA 8260K <input type="checkbox"/> EPA 8260L <input type="checkbox"/> EPA 8260M <input type="checkbox"/> EPA 8260N <input type="checkbox"/> EPA 8260O <input type="checkbox"/> EPA 8260P <input type="checkbox"/> EPA 8260Q <input type="checkbox"/> EPA 8260R <input type="checkbox"/> EPA 8260S <input type="checkbox"/> EPA 8260T <input type="checkbox"/> EPA 8260U 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<input type="checkbox"/> EPA 8260WF <input type="checkbox"/> EPA 8260WG <input type="checkbox"/> EPA 8260WH <input type="checkbox"/> EPA 8260WI <input type="checkbox"/> EPA 8260WJ <input type="checkbox"/> EPA 8260WK <input type="checkbox"/> EPA 8260WL <input type="checkbox"/> EPA 8260WM <input type="checkbox"/> EPA 8260WN <input type="checkbox"/> EPA 8260WO <input type="checkbox"/> EPA 8260WP <input type="checkbox"/> EPA 8260WQ <input type="checkbox"/> EPA 8260WR <input type="checkbox"/> EPA 8260WS <input type="checkbox"/> EPA 8260WT <input type="checkbox"/> EPA 8260WU <input type="checkbox"/> EPA 8260WV <input type="checkbox"/> EPA 8260WW <input type="checkbox"/> EPA 8260WX <input type="checkbox"/> EPA 8260WY <input type="checkbox"/> EPA 8260WZ <input type="checkbox"/> EPA 8260XA <input type="checkbox"/> EPA 8260XB <input type="checkbox"/> EPA 8260XC <input type="checkbox"/> EPA 8260XD <input type="checkbox"/> EPA 8260XE <input type="checkbox"/> EPA 8260XF <input type="checkbox"/> EPA 8260XG <input type="checkbox"/> EPA 8260XH <input type="checkbox"/> EPA 8260XI <input type="checkbox"/> EPA 8260XJ <input type="checkbox"/> EPA 8260XK <input type="checkbox"/> EPA 8260XL <input type="checkbox"/> EPA 8260XM <input type="checkbox"/> EPA 8260XN <input type="checkbox"/> EPA 8260XO <input type="checkbox"/> EPA 8260XP <input type="checkbox"/> EPA 8260XQ <input type="checkbox"/> EPA 8260XR <input type="checkbox"/> EPA 8260XS <input type="checkbox"/> EPA 8260XT <input type="checkbox"/> EPA 8260XU <input type="checkbox"/> EPA 8260XV <input type="checkbox"/> EPA 8260XW <input type="checkbox"/> EPA 8260XX <input type="checkbox"/> EPA 8260XY <input type="checkbox"/> EPA 8260XZ <input type="checkbox"/> EPA 8260YA <input type="checkbox"/> EPA 8260YB <input type="checkbox"/> EPA 8260YC <input type="checkbox"/> EPA 8260YD <input type="checkbox"/> EPA 8260YE <input type="checkbox"/> EPA 8260YF <input type="checkbox"/> EPA 8260YG <input type="checkbox"/> EPA 8260YH <input type="checkbox"/> EPA 8260YI <input type="checkbox"/> EPA 8260YJ <input type="checkbox"/> EPA 8260YK <input type="checkbox"/> EPA 8260YL <input type="checkbox"/> EPA 8260YM <input type="checkbox"/> EPA 8260YN <input type="checkbox"/> EPA 8260YO <input type="checkbox"/> EPA 8260YP <input type="checkbox"/> EPA 8260YQ <input type="checkbox"/> EPA 8260YR <input type="checkbox"/> EPA 8260YS <input type="checkbox"/> EPA 8260YT <input type="checkbox"/> EPA 8260YU <input type="checkbox"/> EPA 8260YV <input type="checkbox"/> EPA 8260YW <input type="checkbox"/> EPA 8260YX <input type="checkbox"/> EPA 8260YY <input type="checkbox"/> EPA 8260YZ <input type="checkbox"/> EPA 8260ZA <input type="checkbox"/> EPA 8260ZB <input type="checkbox"/> EPA 8260ZC <input type="checkbox"/> EPA 8260ZD <input type="checkbox"/> EPA 8260ZE <input type="checkbox"/> EPA 8260ZF <input type="checkbox"/> EPA 8260ZG <input type="checkbox"/> EPA 8260ZH <input type="checkbox"/> EPA 8260ZI <input type="checkbox"/> EPA 8260ZJ <input type="checkbox"/> EPA 8260ZK <input type="checkbox"/> EPA 8260ZL <input type="checkbox"/> EPA 8260ZM <input type="checkbox"/> EPA 8260ZN <input type="checkbox"/> EPA 8260ZO <input type="checkbox"/> EPA 8260ZP <input type="checkbox"/> EPA 8260ZQ <input type="checkbox"/> EPA 8260ZR <input type="checkbox"/> EPA 8260ZS <input type="checkbox"/> EPA 8260ZT <input type="checkbox"/> EPA 8260ZU <input type="checkbox"/> EPA 8260ZV <input type="checkbox"/> EPA 8260ZW <input type="checkbox"/> EPA 8260ZX <input type="checkbox"/> EPA 8260ZY <input type="checkbox"/> EPA 8260ZZ														
Sample ID: <u>B25-5'</u> Date: <u>7-5-16</u> Time: <u>10:50</u> Mat. #: <u>5</u> Pres. #: <u>N6</u> B25-10' 10:55 B25-15' 10:50 B25-20' 11:00 B25-25' 11:05 B25-30' B25-5' 7-6-16 08:15 B25-10' 08:20 B25-15' 08:25 B25-20' 08:31						VOCs by <input type="checkbox"/> EPA 8260B EPA 8260C <input checked="" type="checkbox"/> EPA 8260D <input checked="" type="checkbox"/> EPA 8260E EPA 8260F <input type="checkbox"/> EPA 8260G <input type="checkbox"/> EPA 8260H <input type="checkbox"/> EPA 8260I EPA 8260J <input type="checkbox"/> EPA 8260K <input type="checkbox"/> EPA 8260L <input type="checkbox"/> EPA 8260M EPA 8260N <input type="checkbox"/> EPA 8260O <input type="checkbox"/> EPA 8260P <input type="checkbox"/> EPA 8260Q EPA 8260R <input type="checkbox"/> EPA 8260S <input type="checkbox"/> EPA 8260T <input type="checkbox"/> EPA 8260U EPA 8260V <input type="checkbox"/> EPA 8260W <input type="checkbox"/> EPA 8260X <input type="checkbox"/> EPA 8260Y EPA 8260Z <input type="checkbox"/> EPA 8260AA <input type="checkbox"/> EPA 8260AB <input type="checkbox"/> EPA 8260AC EPA 8260AD <input type="checkbox"/> EPA 8260AE <input type="checkbox"/> EPA 8260AF <input type="checkbox"/> EPA 8260AG EPA 8260AH <input type="checkbox"/> EPA 8260AI <input type="checkbox"/> EPA 8260AJ <input type="checkbox"/> EPA 8260AK EPA 8260AL <input type="checkbox"/> EPA 8260AM <input type="checkbox"/> EPA 8260AN <input type="checkbox"/> EPA 8260AO EPA 8260AP <input type="checkbox"/> EPA 8260AQ <input type="checkbox"/> EPA 8260AR <input type="checkbox"/> EPA 8260AS EPA 8260AT <input type="checkbox"/> EPA 8260AU <input type="checkbox"/> EPA 8260AV <input type="checkbox"/> EPA 8260AW EPA 8260AX <input type="checkbox"/> EPA 8260AY <input type="checkbox"/> EPA 8260AZ <input type="checkbox"/> EPA 8260BA EPA 8260BB <input type="checkbox"/> EPA 8260BC <input type="checkbox"/> EPA 8260BD <input type="checkbox"/> EPA 8260BE EPA 8260BF <input type="checkbox"/> EPA 8260BG <input type="checkbox"/> EPA 8260BH <input type="checkbox"/> EPA 8260BI EPA 8260BJ <input type="checkbox"/> EPA 8260BK <input type="checkbox"/> EPA 8260BL <input type="checkbox"/> EPA 8260BM EPA 8260BN <input type="checkbox"/> EPA 8260BO <input type="checkbox"/> EPA 8260BP <input type="checkbox"/> EPA 8260BQ EPA 8260BR <input type="checkbox"/> EPA 8260BS <input type="checkbox"/> EPA 8260BT <input type="checkbox"/> EPA 8260BU EPA 8260BV <input type="checkbox"/> EPA 8260BW <input type="checkbox"/> EPA 8260BX <input type="checkbox"/> EPA 8260BY EPA 8260BZ <input type="checkbox"/> EPA 8260CA														

SGS Accutest Sample Receipt Summary

Job Number: C46423

Client: ATC GROUP SERVICES LLC

Project: 915 HIGHLAND POINTE DR. SUITE 250 ROSEVIL

Date / Time Received: 7/6/2016 2:20:00 PM

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (4.7/5.7)

Cooler Security

- | | | | | | | | |
|---|--|--|--|--|--|--|--|
| <table border="0"> <tr> <td style="width: 50%;"><u>Y</u> <u>or</u> <u>N</u></td> <td style="width: 50%;"></td> </tr> <tr> <td>1. Custody Seals Present: <input type="checkbox"/> <input checked="" type="checkbox"/></td> <td>3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>2. Custody Seals Intact: <input type="checkbox"/> <input type="checkbox"/></td> <td>4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> </table> | <u>Y</u> <u>or</u> <u>N</u> | | 1. Custody Seals Present: <input type="checkbox"/> <input checked="" type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 2. Custody Seals Intact: <input type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| <u>Y</u> <u>or</u> <u>N</u> | | | | | | | |
| 1. Custody Seals Present: <input type="checkbox"/> <input checked="" type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | |
| 2. Custody Seals Intact: <input type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | |

Cooler Temperature

- | | |
|----------------------------|--|
| | <u>Y</u> <u>or</u> <u>N</u> |
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Therm ID: | IR3; |
| 3. Cooler media: | Ice (Bag) |
| 4. No. Coolers: | 1 |

Quality Control Preservation

- | | | |
|---------------------------------|--|-------------------------------------|
| | <u>Y</u> <u>or</u> <u>N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

- | | |
|--|--|
| | <u>Y</u> <u>or</u> <u>N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> <input type="checkbox"/> |

Sample Integrity - Condition

- | | |
|----------------------------------|--|
| | <u>Y</u> <u>or</u> <u>N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Condition of sample: | Intact |

Sample Integrity - Instructions

- | | | |
|---|--|-------------------------------------|
| | <u>Y</u> <u>or</u> <u>N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Compositing instructions clear: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments Sample #11: Sample ID on COC B25-30' but sample label states B25-29'. Sample is lined up according to time at 09:00

C46423: Chain of Custody

Page 3 of 3

4.1
4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1857-MB	M61752.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1857-MB	M61752.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1857-MB	M61752.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	90% 72-140%
2037-26-5	Toluene-D8	96% 87-113%
460-00-4	4-Bromofluorobenzene	103% 81-115%

Method Blank Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-MB	L49949.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-MB	L49949.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	89% 72-140%

Method Blank Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-MB	L49949.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	95% 87-113%
460-00-4	4-Bromofluorobenzene	90% 81-115%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1857-BS	M61749.D	1	07/07/16	JT	n/a	n/a	VM1857
VM1857-BSD	M61750.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	228	143	193	121	17	47-163/30
71-43-2	Benzene	40	37.7	94	36.4	91	4	72-122/18
108-86-1	Bromobenzene	40	36.1	90	34.5	86	5	68-122/19
74-97-5	Bromochloromethane	40	37.5	94	36.7	92	2	71-129/18
75-27-4	Bromodichloromethane	40	34.7	87	33.5	84	4	68-122/18
75-25-2	Bromoform	40	37.3	93	36.3	91	3	69-126/18
104-51-8	n-Butylbenzene	40	36.9	92	34.8	87	6	66-121/20
135-98-8	sec-Butylbenzene	40	36.6	92	35.3	88	4	69-118/20
98-06-6	tert-Butylbenzene	40	37.7	94	35.9	90	5	69-117/20
108-90-7	Chlorobenzene	40	37.3	93	34.9	87	7	68-117/17
75-00-3	Chloroethane	40	38.5	96	38.3	96	1	66-134/18
67-66-3	Chloroform	40	34.4	86	33.5	84	3	68-124/18
95-49-8	o-Chlorotoluene	40	34.4	86	33.7	84	2	65-120/22
106-43-4	p-Chlorotoluene	40	36.3	91	33.1	83	9	64-123/24
56-23-5	Carbon tetrachloride	40	36.9	92	35.6	89	4	68-130/20
75-34-3	1,1-Dichloroethane	40	35.8	90	34.7	87	3	69-122/19
75-35-4	1,1-Dichloroethylene	40	36.9	92	35.5	89	4	69-120/20
563-58-6	1,1-Dichloropropene	40	36.3	91	34.9	87	4	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	37.3	93	37.8	95	1	64-132/25
106-93-4	1,2-Dibromoethane	40	36.1	90	34.6	87	4	70-122/17
107-06-2	1,2-Dichloroethane	40	33.9	85	32.8	82	3	69-125/18
78-87-5	1,2-Dichloropropane	40	37.3	93	35.7	89	4	71-122/18
142-28-9	1,3-Dichloropropane	40	36.1	90	34.5	86	5	74-123/17
108-20-3	Di-Isopropyl ether	40	35.6	89	35.0	88	2	69-122/19
594-20-7	2,2-Dichloropropane	40	35.7	89	35.9	90	1	63-132/24
124-48-1	Dibromochloromethane	40	35.5	89	33.9	85	5	68-121/16
75-71-8	Dichlorodifluoromethane	40	35.9	90	35.4	89	1	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	38.9	97	38.0	95	2	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	39.9	100	38.2	96	4	71-130/18
541-73-1	m-Dichlorobenzene	40	36.0	90	34.6	87	4	67-119/18
95-50-1	o-Dichlorobenzene	40	37.1	93	35.3	88	5	68-119/17
106-46-7	p-Dichlorobenzene	40	36.2	91	34.3	86	5	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	34.9	87	33.8	85	3	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	35.1	88	33.2	83	6	70-118/17
100-41-4	Ethylbenzene	40	37.4	94	35.4	89	5	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	36.8	92	36.2	91	2	69-125/19

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1857-BS	M61749.D	1	07/07/16	JT	n/a	n/a	VM1857
VM1857-BSD	M61750.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	182	114	174	109	4	53-153/27
87-68-3	Hexachlorobutadiene	40	33.2	83	32.5	81	2	65-125/22
98-82-8	Isopropylbenzene	40	38.3	96	36.1	90	6	70-119/19
99-87-6	p-Isopropyltoluene	40	37.5	94	35.9	90	4	68-120/20
108-10-1	4-Methyl-2-pentanone	160	154	96	154	96	0	60-145/26
74-83-9	Methyl bromide	40	37.2	93	37.2	93	0	66-130/18
74-87-3	Methyl chloride	40	33.8	85	33.3	83	1	50-140/25
74-95-3	Methylene bromide	40	36.8	92	35.5	89	4	72-127/17
75-09-2	Methylene chloride	40	35.6	89	34.8	87	2	69-121/18
78-93-3	Methyl ethyl ketone	160	177	111	173	108	2	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	36.4	91	35.9	90	1	68-121/19
91-20-3	Naphthalene	40	37.3	93	37.0	93	1	68-129/22
103-65-1	n-Propylbenzene	40	35.7	89	34.2	86	4	67-116/20
100-42-5	Styrene	40	38.6	97	36.4	91	6	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	39.3	98	38.5	96	2	70-129/20
75-65-0	Tert Butyl Alcohol	200	222	111	234	117	5	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	37.1	93	35.0	88	6	70-123/18
71-55-6	1,1,1-Trichloroethane	40	36.6	92	36.0	90	2	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	36.8	92	36.0	90	2	69-126/18
79-00-5	1,1,2-Trichloroethane	40	35.1	88	33.4	84	5	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	34.4	86	33.6	84	2	65-125/23
96-18-4	1,2,3-Trichloropropane	40	37.7	94	37.0	93	2	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	35.9	90	34.2	86	5	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	36.3	91	34.4	86	5	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	37.4	94	35.6	89	5	68-120/20
127-18-4	Tetrachloroethylene	40	39.0	98	37.0	93	5	66-125/18
108-88-3	Toluene	40	37.0	93	34.6	87	7	72-116/18
79-01-6	Trichloroethylene	40	39.9	100	38.3	96	4	70-126/18
75-69-4	Trichlorofluoromethane	40	36.9	92	37.1	93	1	70-138/19
75-01-4	Vinyl chloride	40	31.8	80	31.5	79	1	55-146/22
1330-20-7	Xylene (total)	120	115	96	107	89	7	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	95%	96%	72-140%

* = Outside of Control Limits.

5.2.1 5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1857-BS	M61749.D	1	07/07/16	JT	n/a	n/a	VM1857
VM1857-BSD	M61750.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	96%	95%	87-113%
460-00-4	4-Bromofluorobenzene	101%	100%	81-115%

* = Outside of Control Limits.

5.2.1
 5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-BS	L49946.D	1	07/11/16	JT	n/a	n/a	VL1498
VL1498-BSD	L49947.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	135	84	138	86	2	47-163/30
71-43-2	Benzene	40	31.8	80	32.0	80	1	72-122/18
108-86-1	Bromobenzene	40	37.3	93	37.5	94	1	68-122/19
74-97-5	Bromochloromethane	40	33.1	83	32.7	82	1	71-129/18
75-27-4	Bromodichloromethane	40	32.4	81	32.1	80	1	68-122/18
75-25-2	Bromoform	40	39.7	99	39.1	98	2	69-126/18
104-51-8	n-Butylbenzene	40	35.8	90	36.5	91	2	66-121/20
135-98-8	sec-Butylbenzene	40	35.8	90	36.7	92	2	69-118/20
98-06-6	tert-Butylbenzene	40	35.3	88	36.8	92	4	69-117/20
108-90-7	Chlorobenzene	40	35.3	88	35.3	88	0	68-117/17
75-00-3	Chloroethane	40	39.4	99	38.0	95	4	66-134/18
67-66-3	Chloroform	40	30.7	77	30.4	76	1	68-124/18
95-49-8	o-Chlorotoluene	40	33.2	83	33.9	85	2	65-120/22
106-43-4	p-Chlorotoluene	40	32.6	82	33.4	84	2	64-123/24
56-23-5	Carbon tetrachloride	40	32.2	81	32.7	82	2	68-130/20
75-34-3	1,1-Dichloroethane	40	29.4	74	29.5	74	0	69-122/19
75-35-4	1,1-Dichloroethylene	40	28.0	70	27.5	69	2	69-120/20
563-58-6	1,1-Dichloropropene	40	30.1	75	29.9	75	1	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	34.0	85	33.3	83	2	64-132/25
106-93-4	1,2-Dibromoethane	40	35.9	90	34.9	87	3	70-122/17
107-06-2	1,2-Dichloroethane	40	30.5	76	30.1	75	1	69-125/18
78-87-5	1,2-Dichloropropane	40	32.7	82	32.7	82	0	71-122/18
142-28-9	1,3-Dichloropropane	40	35.7	89	35.0	88	2	74-123/17
108-20-3	Di-Isopropyl ether	40	29.4	74	29.0	73	1	69-122/19
594-20-7	2,2-Dichloropropane	40	30.5	76	29.7	74	3	63-132/24
124-48-1	Dibromochloromethane	40	35.9	90	34.7	87	3	68-121/16
75-71-8	Dichlorodifluoromethane	40	32.4	81	31.8	80	2	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	34.2	86	32.9	82	4	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	34.5	86	33.9	85	2	71-130/18
541-73-1	m-Dichlorobenzene	40	36.6	92	37.0	93	1	67-119/18
95-50-1	o-Dichlorobenzene	40	36.7	92	37.2	93	1	68-119/17
106-46-7	p-Dichlorobenzene	40	36.8	92	36.8	92	0	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	28.2	71	28.1	70	0	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	33.5	84	32.2	81	4	70-118/17
100-41-4	Ethylbenzene	40	34.8	87	34.9	87	0	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	30.4	76	29.8	75	2	69-125/19

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-BS	L49946.D	1	07/11/16	JT	n/a	n/a	VL1498
VL1498-BSD	L49947.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	153	96	142	89	7	53-153/27
87-68-3	Hexachlorobutadiene	40	37.5	94	38.5	96	3	65-125/22
98-82-8	Isopropylbenzene	40	35.4	89	35.8	90	1	70-119/19
99-87-6	p-Isopropyltoluene	40	36.5	91	37.4	94	2	68-120/20
108-10-1	4-Methyl-2-pentanone	160	161	101	152	95	6	60-145/26
74-83-9	Methyl bromide	40	38.6	97	38.1	95	1	66-130/18
74-87-3	Methyl chloride	40	34.1	85	33.7	84	1	50-140/25
74-95-3	Methylene bromide	40	33.8	85	33.2	83	2	72-127/17
75-09-2	Methylene chloride	40	29.8	75	28.8	72	3	69-121/18
78-93-3	Methyl ethyl ketone	160	143	89	137	86	4	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	29.4	74	28.5	71	3	68-121/19
91-20-3	Naphthalene	40	36.8	92	36.5	91	1	68-129/22
103-65-1	n-Propylbenzene	40	34.4	86	35.2	88	2	67-116/20
100-42-5	Styrene	40	36.1	90	35.7	89	1	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	32.6	82	31.6	79	3	70-129/20
75-65-0	Tert Butyl Alcohol	200	153	77	159	80	4	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	36.2	91	36.3	91	0	70-123/18
71-55-6	1,1,1-Trichloroethane	40	31.3	78	31.2	78	0	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	37.4	94	36.5	91	2	69-126/18
79-00-5	1,1,2-Trichloroethane	40	35.7	89	34.7	87	3	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	36.0	90	36.5	91	1	65-125/23
96-18-4	1,2,3-Trichloropropane	40	38.2	96	37.4	94	2	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	37.1	93	36.4	91	2	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	34.8	87	35.4	89	2	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	35.3	88	35.8	90	1	68-120/20
127-18-4	Tetrachloroethylene	40	39.8	100	44.4	111	11	66-125/18
108-88-3	Toluene	40	34.0	85	34.1	85	0	72-116/18
79-01-6	Trichloroethylene	40	33.8	85	33.7	84	0	70-126/18
75-69-4	Trichlorofluoromethane	40	37.2	93	36.2	91	3	70-138/19
75-01-4	Vinyl chloride	40	38.1	95	37.4	94	2	55-146/22
1330-20-7	Xylene (total)	120	105	88	106	88	1	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	93%	92%	72-140%

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-BS	L49946.D	1	07/11/16	JT	n/a	n/a	VL1498
VL1498-BSD	L49947.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	97%	97%	87-113%
460-00-4	4-Bromofluorobenzene	92%	92%	81-115%

* = Outside of Control Limits.

5.2.2
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Laboratory Control Sample Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1857-LCS	M61751.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	236	94	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	72-140%
2037-26-5	Toluene-D8	97%	87-113%
460-00-4	4-Bromofluorobenzene	103%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-LCS	L49948.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	72-140%
2037-26-5	Toluene-D8	98%	87-113%
460-00-4	4-Bromofluorobenzene	90%	81-115%

* = Outside of Control Limits.

5.3.2
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46423-18MS	M61758.D	1	07/07/16	JT	n/a	n/a	VM1857
C46423-18MSD	M61759.D	1	07/07/16	JT	n/a	n/a	VM1857
C46423-18	M61755.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Compound	C46423-18 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	6660	5790	87	6660	4960	75	15	47-163/30
71-43-2	Benzene	ND	1660	1590	96	1660	1470	88	8	72-122/18
108-86-1	Bromobenzene	ND	1660	1550	93	1660	1420	85	9	68-122/19
74-97-5	Bromochloromethane	ND	1660	1640	99	1660	1510	91	8	71-129/18
75-27-4	Bromodichloromethane	ND	1660	1510	91	1660	1390	84	8	68-122/18
75-25-2	Bromoform	ND	1660	1570	94	1660	1490	90	5	69-126/18
104-51-8	n-Butylbenzene	ND	1660	1500	90	1660	1390	84	8	66-121/20
135-98-8	sec-Butylbenzene	ND	1660	1530	92	1660	1400	84	9	69-118/20
98-06-6	tert-Butylbenzene	ND	1660	1570	94	1660	1440	87	9	69-117/20
108-90-7	Chlorobenzene	ND	1660	1570	94	1660	1460	88	7	68-117/17
75-00-3	Chloroethane	ND	1660	1620	97	1660	1470	88	10	66-134/18
67-66-3	Chloroform	ND	1660	1480	89	1660	1340	81	10	68-124/18
95-49-8	o-Chlorotoluene	ND	1660	1440	87	1660	1320	79	9	65-120/22
106-43-4	p-Chlorotoluene	ND	1660	1520	91	1660	1410	85	8	64-123/24
56-23-5	Carbon tetrachloride	ND	1660	1500	90	1660	1370	82	9	68-130/20
75-34-3	1,1-Dichloroethane	ND	1660	1510	91	1660	1390	84	8	69-122/19
75-35-4	1,1-Dichloroethylene	ND	1660	1520	91	1660	1390	84	9	69-120/20
563-58-6	1,1-Dichloropropene	ND	1660	1500	90	1660	1370	82	9	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	ND	1660	1730	104	1660	1600	96	8	64-132/25
106-93-4	1,2-Dibromoethane	ND	1660	1540	93	1660	1450	87	6	70-122/17
107-06-2	1,2-Dichloroethane	ND	1660	1470	88	1660	1350	81	9	69-125/18
78-87-5	1,2-Dichloropropane	ND	1660	1650	99	1660	1500	90	10	71-122/18
142-28-9	1,3-Dichloropropane	ND	1660	1550	93	1660	1470	88	5	74-123/17
108-20-3	Di-Isopropyl ether	ND	1660	1550	93	1660	1410	85	9	69-122/19
594-20-7	2,2-Dichloropropane	ND	1660	1360	82	1660	1220	73	11	63-132/24
124-48-1	Dibromochloromethane	ND	1660	1520	91	1660	1410	85	8	68-121/16
75-71-8	Dichlorodifluoromethane	ND	1660	1500	90	1660	1350	81	11	53-119/22
156-59-2	cis-1,2-Dichloroethylene	ND	1660	1650	99	1660	1530	92	8	72-130/18
10061-01-5	cis-1,3-Dichloropropene	ND	1660	1710	103	1660	1590	96	7	71-130/18
541-73-1	m-Dichlorobenzene	ND	1660	1560	94	1660	1430	86	9	67-119/18
95-50-1	o-Dichlorobenzene	ND	1660	1610	97	1660	1480	89	8	68-119/17
106-46-7	p-Dichlorobenzene	ND	1660	1550	93	1660	1430	86	8	67-119/17
156-60-5	trans-1,2-Dichloroethylene	ND	1660	1460	88	1660	1330	80	9	66-113/19
10061-02-6	trans-1,3-Dichloropropene	ND	1660	1480	89	1660	1370	82	8	70-118/17
100-41-4	Ethylbenzene	ND	1660	1560	94	1660	1440	87	8	71-118/18
637-92-3	Ethyl tert-Butyl Ether	ND	1660	1630	98	1660	1490	90	9	69-125/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46423-18MS	M61758.D	1	07/07/16	JT	n/a	n/a	VM1857
C46423-18MSD	M61759.D	1	07/07/16	JT	n/a	n/a	VM1857
C46423-18	M61755.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Compound	C46423-18 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND	6660	6480	97	6660	6170	93	5	53-153/27
87-68-3	Hexachlorobutadiene	ND	1660	1400	84	1660	1290	78	8	65-125/22
98-82-8	Isopropylbenzene	ND	1660	1590	96	1660	1480	89	7	70-119/19
99-87-6	p-Isopropyltoluene	ND	1660	1540	93	1660	1420	85	8	68-120/20
108-10-1	4-Methyl-2-pentanone	ND	6660	6700	101	6660	6240	94	7	60-145/26
74-83-9	Methyl bromide	ND	1660	1520	91	1660	1360	82	11	66-130/18
74-87-3	Methyl chloride	ND	1660	1480	89	1660	1280	77	14	50-140/25
74-95-3	Methylene bromide	ND	1660	1590	96	1660	1460	88	9	72-127/17
75-09-2	Methylene chloride	ND	1660	1520	91	1660	1400	84	8	69-121/18
78-93-3	Methyl ethyl ketone	ND	6660	5660	85	6660	5120	77	10	59-147/30
1634-04-4	Methyl Tert Butyl Ether	ND	1660	1530	92	1660	1410	85	8	68-121/19
91-20-3	Naphthalene	ND	1660	1790	108	1660	1680	101	6	68-129/22
103-65-1	n-Propylbenzene	ND	1660	1470	88	1660	1350	81	9	67-116/20
100-42-5	Styrene	ND	1660	1640	99	1660	1530	92	7	68-120/17
994-05-8	Tert-Amyl Methyl Ether	ND	1660	1730	104	1660	1580	95	9	70-129/20
75-65-0	Tert Butyl Alcohol	ND	8320	4330	52	8320	3750	45* a	14	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	1660	1570	94	1660	1470	88	7	70-123/18
71-55-6	1,1,1-Trichloroethane	ND	1660	1510	91	1660	1370	82	10	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	ND	1660	1580	95	1660	1470	88	7	69-126/18
79-00-5	1,1,2-Trichloroethane	ND	1660	1500	90	1660	1390	84	8	70-120/17
87-61-6	1,2,3-Trichlorobenzene	ND	1660	1630	98	1660	1520	91	7	65-125/23
96-18-4	1,2,3-Trichloropropane	ND	1660	1640	99	1660	1550	93	6	69-128/18
120-82-1	1,2,4-Trichlorobenzene	ND	1660	1610	97	1660	1480	89	8	65-125/22
95-63-6	1,2,4-Trimethylbenzene	ND	1660	1520	91	1660	1410	85	8	67-118/19
108-67-8	1,3,5-Trimethylbenzene	ND	1660	1550	93	1660	1430	86	8	68-120/20
127-18-4	Tetrachloroethylene	ND	1660	1650	99	1660	1520	91	8	66-125/18
108-88-3	Toluene	ND	1660	1530	92	1660	1420	85	7	72-116/18
79-01-6	Trichloroethylene	ND	1660	1660	100	1660	1530	92	8	70-126/18
75-69-4	Trichlorofluoromethane	ND	1660	1530	92	1660	1390	84	10	70-138/19
75-01-4	Vinyl chloride	ND	1660	821	49* a	1660	719	43* a	13	55-146/22
1330-20-7	Xylene (total)	ND	4990	4790	96	4990	4480	90	7	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46423-18	Limits
1868-53-7	Dibromofluoromethane	92%	92%	91%	72-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46423-18MS	M61758.D	1	07/07/16	JT	n/a	n/a	VM1857
C46423-18MSD	M61759.D	1	07/07/16	JT	n/a	n/a	VM1857
C46423-18	M61755.D	1	07/07/16	JT	n/a	n/a	VM1857

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-18, C46423-19, C46423-20

CAS No.	Surrogate Recoveries	MS	MSD	C46423-18	Limits
2037-26-5	Toluene-D8	94%	95%	96%	87-113%
460-00-4	4-Bromofluorobenzene	101%	102%	106%	81-115%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

5.4.1
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-5MS	L49964.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5MSD	L49965.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5	L49963.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Compound	C46413-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	30900	23900	77	30900	23700	77	1	47-163/30
71-43-2	Benzene	ND	7740	6090	79	7740	5110	66* a	18	72-122/18
108-86-1	Bromobenzene	ND	7740	7010	91	7740	4650	60* a	40* b	68-122/19
74-97-5	Bromochloromethane	ND	7740	6600	85	7740	5660	73	15	71-129/18
75-27-4	Bromodichloromethane	ND	7740	6940	90	7740	5670	73	20* a	68-122/18
75-25-2	Bromoform	ND	7740	7910	102	7740	6450	83	20* b	69-126/18
104-51-8	n-Butylbenzene	ND	7740	6800	88	7740	2340	30* a	98* b	66-121/20
135-98-8	sec-Butylbenzene	ND	7740	6860	89	7740	2870	37* a	82* b	69-118/20
98-06-6	tert-Butylbenzene	ND	7740	6630	86	7740	3200	41* a	70* a	69-117/20
108-90-7	Chlorobenzene	ND	7740	6710	87	7740	4530	59* a	39* b	68-117/17
75-00-3	Chloroethane	ND	7740	7610	98	7740	7510	97	1	66-134/18
67-66-3	Chloroform	ND	7740	6660	86	7740	5510	71	19* b	68-124/18
95-49-8	o-Chlorotoluene	ND	7740	6590	85	7740	3430	44* a	63* b	65-120/22
106-43-4	p-Chlorotoluene	ND	7740	6800	88	7740	3240	42* a	71* b	64-123/24
56-23-5	Carbon tetrachloride	ND	7740	7170	93	7740	5620	73	24* b	68-130/20
75-34-3	1,1-Dichloroethane	ND	7740	6140	79	7740	5300	69	15	69-122/19
75-35-4	1,1-Dichloroethylene	ND	7740	5210	67* a	7740	4710	61* a	10	69-120/20
563-58-6	1,1-Dichloropropene	ND	7740	6180	80	7740	4760	62* a	26* b	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	ND	7740	7070	91	7740	6310	82	11	64-132/25
106-93-4	1,2-Dibromoethane	ND	7740	6930	90	7740	5890	76	16	70-122/17
107-06-2	1,2-Dichloroethane	ND	7740	7220	93	7740	6080	79	17	69-125/18
78-87-5	1,2-Dichloropropane	ND	7740	6460	83	7740	5580	72	15	71-122/18
142-28-9	1,3-Dichloropropane	ND	7740	6940	90	7740	5920	77	16	74-123/17
108-20-3	Di-Isopropyl ether	ND	7740	5990	77	7740	5350	69	11	69-122/19
594-20-7	2,2-Dichloropropane	ND	7740	6400	83	7740	5510	71	15	63-132/24
124-48-1	Dibromochloromethane	ND	7740	7340	95	7740	5960	77	21* b	68-121/16
75-71-8	Dichlorodifluoromethane	ND	7740	7850	101	7740	7310	94	7	53-119/22
156-59-2	cis-1,2-Dichloroethylene	ND	7740	6620	86	7740	5610	73	17	72-130/18
10061-01-5	cis-1,3-Dichloropropene	ND	7740	6850	89	7740	5490	71	22* b	71-130/18
541-73-1	m-Dichlorobenzene	ND	7740	6950	90	7740	3800	49* a	59* b	67-119/18
95-50-1	o-Dichlorobenzene	ND	7740	7050	91	7740	4210	54* a	50* b	68-119/17
106-46-7	p-Dichlorobenzene	ND	7740	6940	90	7740	3720	48* a	60* b	67-119/17
156-60-5	trans-1,2-Dichloroethylene	ND	7740	5480	71	7740	4590	59* a	18	66-113/19
10061-02-6	trans-1,3-Dichloropropene	ND	7740	6620	86	7740	5340	69* a	21* b	70-118/17
100-41-4	Ethylbenzene	ND	7740	6760	87	7740	3970	51* a	52* b	71-118/18
637-92-3	Ethyl tert-Butyl Ether	ND	7740	6390	83	7740	5710	74	11	69-125/19

* = Outside of Control Limits.

5.4.2
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-5MS	L49964.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5MSD	L49965.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5	L49963.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Compound	C46413-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND	30900	28000	90	30900	26800	87	4	53-153/27
87-68-3	Hexachlorobutadiene	ND	7740	7340	95	7740	2200	28* a	108* b	65-125/22
98-82-8	Isopropylbenzene	ND	7740	7020	91	7740	3600	47* a	64* b	70-119/19
99-87-6	p-Isopropyltoluene	ND	7740	6910	89	7740	2770	36* a	86* b	68-120/20
108-10-1	4-Methyl-2-pentanone	ND	30900	28900	93	30900	27900	90	4	60-145/26
74-83-9	Methyl bromide	ND	7740	7780	101	7740	7690	99	1	66-130/18
74-87-3	Methyl chloride	ND	7740	7550	98	7740	7200	93	5	50-140/25
74-95-3	Methylene bromide	ND	7740	7120	92	7740	5950	77	18* b	72-127/17
75-09-2	Methylene chloride	ND	7740	5720	74	7740	5130	66* a	11	69-121/18
78-93-3	Methyl ethyl ketone	ND	30900	26000	84	30900	24800	80	5	59-147/30
1634-04-4	Methyl Tert Butyl Ether	12700	7740	18900	80	7740	17600	63* a	7	68-121/19
91-20-3	Naphthalene	ND	7740	7210	93	7740	5290	68	31* b	68-129/22
103-65-1	n-Propylbenzene	ND	7740	6460	83	7740	2990	39* a	73* b	67-116/20
100-42-5	Styrene	ND	7740	6900	89	7740	4200	54* a	49* b	68-120/17
994-05-8	Tert-Amyl Methyl Ether	ND	7740	6720	87	7740	5990	77	11	70-129/20
75-65-0	Tert Butyl Alcohol	20800	38700	59000	99	38700	55700	90	6	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	7740	7420	96	7740	5570	72	28* b	70-123/18
71-55-6	1,1,1-Trichloroethane	ND	7740	7010	91	7740	5590	72	23* b	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	ND	7740	7020	91	7740	6350	82	10	69-126/18
79-00-5	1,1,2-Trichloroethane	ND	7740	6820	88	7740	5940	77	14	70-120/17
87-61-6	1,2,3-Trichlorobenzene	ND	7740	7330	95	7740	4020	52* a	58* b	65-125/23
96-18-4	1,2,3-Trichloropropane	ND	7740	8020	104	7740	6840	88	16	69-128/18
120-82-1	1,2,4-Trichlorobenzene	ND	7740	6940	90	7740	3750	48* a	60* b	65-125/22
95-63-6	1,2,4-Trimethylbenzene	ND	7740	6730	87	7740	3280	42* a	69* b	67-118/19
108-67-8	1,3,5-Trimethylbenzene	ND	7740	6720	87	7740	3300	43* a	68* b	68-120/20
127-18-4	Tetrachloroethylene	ND	7740	7070	91	7740	4500	58* a	44* b	66-125/18
108-88-3	Toluene	ND	7740	6460	83	7740	4620	60* a	33* b	72-116/18
79-01-6	Trichloroethylene	ND	7740	6590	85	7740	5000	65* a	27* b	70-126/18
75-69-4	Trichlorofluoromethane	ND	7740	8490	110	7740	7740	100	9	70-138/19
75-01-4	Vinyl chloride	ND	7740	8600	111	7740	8010	104	7	55-146/22
1330-20-7	Xylene (total)	ND	23200	20300	87	23200	11800	51* a	53* b	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46413-5	Limits
1868-53-7	Dibromofluoromethane	100%	97%	98%	72-140%

* = Outside of Control Limits.

5.4.2
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-5MS	L49964.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5MSD	L49965.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5	L49963.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46423-3, C46423-4, C46423-5, C46423-8, C46423-9, C46423-10, C46423-14, C46423-15, C46423-16

CAS No.	Surrogate Recoveries	MS	MSD	C46413-5	Limits
2037-26-5	Toluene-D8	94%	98%	96%	87-113%
460-00-4	4-Bromofluorobenzene	96%	97%	93%	81-115%

- (a) Outside control limits due to matrix interference.
- (b) Outside laboratory control limits.

* = Outside of Control Limits.

5.4.2
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GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14603-MB	BB5051.D	1	07/07/16	MT	07/06/16	OP14603	GBB169

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46423-18, C46423-19, C46423-20

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	3.3	1.5	mg/kg	
	TPH (> C28-C40)	ND	3.3	1.3	mg/kg	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	71% 38-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14603-BS	BB5052.D	1	07/07/16	MT	07/06/16	OP14603	GBB169
OP14603-BSD	BB5053.D	1	07/07/16	MT	07/06/16	OP14603	GBB169

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46423-18, C46423-19, C46423-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	33.3	27.5	83	27.7	83	1	53-107/12
	TPH (> C28-C40)	33.3	29.1	87	30.9	93	6	59-120/14

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	73%	73%	38-146%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46423
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14603-MS	BB5181.D	1	07/09/16	MT	07/06/16	OP14603	GBB170
OP14603-MSD	BB5182.D	1	07/09/16	MT	07/06/16	OP14603	GBB170
C46405-5	BB5180.D	1	07/09/16	MT	07/06/16	OP14603	GBB170

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46423-18, C46423-19, C46423-20

CAS No.	Compound	C46405-5 mg/kg	Spike Q	mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	1.77	J	34.1	28.6	79	34.1	30.4	84	6	53-107/12
	TPH (> C28-C40)	1.52	J	34.1	28.8	80	34.1	30.6	85	6	59-120/14

CAS No.	Surrogate Recoveries	MS	MSD	C46405-5	Limits
630-01-3	Hexacosane	69%	70%	67%	38-146%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C46423
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 07/11/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.54	1.5		
Antimony	2.0	.16	.18	0.21	<2.0
Arsenic	2.0	.17	.17	0.080	<2.0
Barium	20	.025	.09	0.13	<20
Beryllium	1.0	.019	.01	0.0	<1.0
Boron	10	.27	.15		
Cadmium	1.0	.032	.031	-0.010	<1.0
Calcium	500	1.9	4.5		
Chromium	1.0	.12	.054	0.020	<1.0
Cobalt	1.0	.049	.025	0.030	<1.0
Copper	2.5	.1	.15	0.020	<2.5
Iron	20	.51	.76		
Lead	2.0	.11	.14	0.050	<2.0
Magnesium	500	3.7	2.1		
Manganese	1.5	.021	.026		
Molybdenum	2.0	.11	.04	0.0	<2.0
Nickel	1.0	.045	.047	0.050	<1.0
Potassium	1000	2.9	4.6		
Selenium	2.0	.49	.33	-0.070	<2.0
Silicon	20	.22	.43		
Silver	1.0	.089	.067	0.010	<1.0
Sodium	1000	2.6	1.2		
Strontium	1.0	.014	.018		
Thallium	2.0	.39	.12	-0.090	<2.0
Tin	50	.3	.28		
Titanium	1.0	.076	.13		
Vanadium	1.0	.043	.074	0.020	<1.0
Zinc	2.0	.11	.22	0.29	<2.0

Associated samples MP11595: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.1
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46423
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46435-18 Original MS		SpikeLot MPIR5	% Rec	QC Limits
Aluminum					
Antimony	0.46	15.7	45.9	33.2N(a)	75-125
Arsenic	6.9	48.3	45.9	90.3	75-125
Barium	79.7	109	45.9	63.9N(a)	75-125
Beryllium	0.30	41.1	45.9	88.9	75-125
Boron					
Cadmium	0.26	42.4	45.9	91.9	75-125
Calcium					
Chromium	40.0	77.7	45.9	82.2	75-125
Cobalt	4.6	47.0	45.9	92.4	75-125
Copper	11.7	57.8	45.9	100.5	75-125
Iron					
Lead	3.1	44.3	45.9	89.8	75-125
Magnesium					
Manganese					
Molybdenum	0.53	38.6	45.9	83.0	75-125
Nickel	28.3	71.7	45.9	94.6	75-125
Potassium					
Selenium	0.59	40.3	45.9	86.6	75-125
Silicon					
Silver	0.0	36.3	45.9	79.1	75-125
Sodium					
Strontium					
Thallium	0.0	41.9	45.9	91.3	75-125
Tin					
Titanium					
Vanadium	35.7	87.1	45.9	112.1	75-125
Zinc	26.0	75.9	45.9	108.8	75-125

Associated samples MP11595: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

7.1.2
 7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46423
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46435-18 Original MSD		SpikeLot MPIR5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.46	17.2	46.3	36.2N(a)	9.1	20
Arsenic	6.9	50.0	46.3	93.1	3.5	20
Barium	79.7	119	46.3	84.9	8.8	20
Beryllium	0.30	40.2	46.3	86.2	2.2	20
Boron						
Cadmium	0.26	42.2	46.3	90.6	0.5	20
Calcium						
Chromium	40.0	94.3	46.3	117.3	19.3	20
Cobalt	4.6	47.1	46.3	91.8	0.2	20
Copper	11.7	61.1	46.3	106.7	5.6	20
Iron						
Lead	3.1	45.5	46.3	91.6	2.7	20
Magnesium						
Manganese						
Molybdenum	0.53	38.4	46.3	81.8	0.5	20
Nickel	28.3	81.8	46.3	115.6	13.2	20
Potassium						
Selenium	0.59	40.1	46.3	85.3	0.5	20
Silicon						
Silver	0.0	36.1	46.3	78.0	0.6	20
Sodium						
Strontium						
Thallium	0.0	42.2	46.3	91.2	0.7	20
Tin						
Titanium						
Vanadium	35.7	90.7	46.3	118.8	4.0	20
Zinc	26.0	80.6	46.3	117.9	6.0	20

Associated samples MP11595: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

7.1.2
 7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C46423
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	46.5	50	93.0	80-120
Arsenic	45.8	50	91.6	80-120
Barium	43.6	50	87.2	80-120
Beryllium	45.5	50	91.0	80-120
Boron				
Cadmium	46.3	50	92.6	80-120
Calcium				
Chromium	47.9	50	95.8	80-120
Cobalt	48.2	50	96.4	80-120
Copper	47.7	50	95.4	80-120
Iron				
Lead	44.2	50	88.4	80-120
Magnesium				
Manganese				
Molybdenum	46.0	50	92.0	80-120
Nickel	44.2	50	88.4	80-120
Potassium				
Selenium	45.2	50	90.4	80-120
Silicon				
Silver	49.9	50	99.8	80-120
Sodium				
Strontium				
Thallium	46.6	50	93.2	80-120
Tin				
Titanium				
Vanadium	47.1	50	94.2	80-120
Zinc	47.4	50	94.8	80-120

Associated samples MP11595: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

7.1.3
7

SERIAL DILUTION RESULTS SUMMARY

Login Number: C46423
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/11/16

Metal	C46435-18 Original SDL 1:5		%DIF	QC Limits
Aluminum				
Antimony	4.70	8.10	72.3 (a)	0-10
Arsenic	70.6	100	42.1 (a)	0-10
Barium	813	1150	41.3*(b)	0-10
Beryllium	3.10	4.20	35.5 (a)	0-10
Boron				
Cadmium	2.70	3.30	22.2 (a)	0-10
Calcium				
Chromium	408	581	42.4*(b)	0-10
Cobalt	47.4	64.4	35.9*(b)	0-10
Copper	120	164	36.9*(b)	0-10
Iron				
Lead	31.9	37.9	18.8 (a)	0-10
Magnesium				
Manganese				
Molybdenum	5.40	0.00	100.0(a)	0-10
Nickel	288	364	26.2*(b)	0-10
Potassium				
Selenium	6.00	0.00	100.0(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	364	514	41.4*(b)	0-10
Zinc	265	355	33.8*(b)	0-10

Associated samples MP11595: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

7.1.4
7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C46423
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11603
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 07/13/16

Metal	RL	IDL	MDL	MB	
				raw	final
Mercury	0.017	.00035	.0037	0.00083	<0.017

Associated samples MP11603: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46423
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11603
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 07/13/16

Metal	C46423-20 Original MS	SpikeLot HGPWS1	% Rec	QC Limits
-------	--------------------------	--------------------	-------	--------------

Mercury 0.025 0.20 0.159 110.3 75-125

Associated samples MP11603: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

7.2.2
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46423
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11603
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 07/13/16

Metal	C46423-20 Original MSD	SpikeLot HGPWS1	% Rec	MSD RPD	QC Limit	
Mercury	0.025	0.19	0.152	108.9	5.1	20

Associated samples MP11603: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

7.2.2
7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C46423
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11603
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 07/13/16

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.17	0.167	102.0	80-120

Associated samples MP11603: C46423-18, C46423-19, C46423-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.3
7

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Automated Report

Technical Report for

ATC Group Services

Premier Hyundai 2820 Broadway Oakland

SGS Accutest Job Number: C46435

Sampling Date: 07/07/16

Report to:

ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA
gabe.stivala@atcassociates.com

ATTN: Gabe Stivala

Total number of pages in report: **625**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.



ACCUTEST

August 2, 2016

Gabe Stivala
ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA

Re: SGS Accutest Job # C46435 Reissue

Dear Mr. Stivala,

This is a reissued report for SGS Accutest Job # **C46435**, original report dated 7/25/2016.

Additional results for *TPH-GRO* have been retrieved as per your request. Revised result pages and associated QC summary pages have been incorporated into this revised report.

Please contact us at 408-588-0200 if we can be of further assistance in this matter, or if you have any questions regarding this data report.

Sincerely,

SGS Accutest Inc.

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

SGS Accutest Northern California 2105 Lundy Avenue San Jose, CA 95131, USA t +1 (0)408 588 0200 www.sgs.com

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Sample Summary

ATC Group Services

Job No: C46435

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46435-1	07/07/16	11:20 JK	07/07/16	SO	Soil	B27-2'
C46435-1R	07/07/16	11:20 JK	07/07/16	SO	Soil	B27-2'
C46435-2	07/07/16	11:23 JK	07/07/16	SO	Soil	B27-4'
C46435-2R	07/07/16	11:23 JK	07/07/16	SO	Soil	B27-4'
C46435-3	07/07/16	11:30 JK	07/07/16	SO	Soil	B27-10'
C46435-3R	07/07/16	11:30 JK	07/07/16	SO	Soil	B27-10'
C46435-4	07/07/16	11:35 JK	07/07/16	SO	Soil	B27-15'
C46435-4R	07/07/16	11:35 JK	07/07/16	SO	Soil	B27-15'
C46435-7	07/07/16	09:10 JK	07/07/16	SO	Soil	B28-2'
C46435-7R	07/07/16	09:10 JK	07/07/16	SO	Soil	B28-2'
C46435-8	07/07/16	09:15 JK	07/07/16	SO	Soil	B28-4'
C46435-8R	07/07/16	09:15 JK	07/07/16	SO	Soil	B28-4'
C46435-9	07/07/16	09:25 JK	07/07/16	SO	Soil	B28-10'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

ATC Group Services

Job No: C46435

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46435-9R	07/07/16	09:25 JK	07/07/16	SO	Soil	B28-10'
C46435-10	07/07/16	09:30 JK	07/07/16	SO	Soil	B28-15'
C46435-10R	07/07/16	09:30 JK	07/07/16	SO	Soil	B28-15'
C46435-11	07/07/16	09:35 JK	07/07/16	SO	Soil	B28-20'
C46435-11R	07/07/16	09:35 JK	07/07/16	SO	Soil	B28-20'
C46435-12	07/07/16	09:40 JK	07/07/16	SO	Soil	B28-25'
C46435-12R	07/07/16	09:40 JK	07/07/16	SO	Soil	B28-25'
C46435-13	07/07/16	10:40 JK	07/07/16	SO	Soil	B29-2'
C46435-13R	07/07/16	10:40 JK	07/07/16	SO	Soil	B29-2'
C46435-14	07/07/16	10:45 JK	07/07/16	SO	Soil	B29-4'
C46435-14R	07/07/16	10:45 JK	07/07/16	SO	Soil	B29-4'
C46435-15	07/07/16	10:50 JK	07/07/16	SO	Soil	B29-10'
C46435-15R	07/07/16	10:50 JK	07/07/16	SO	Soil	B29-10'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ATC Group Services

Job No: C46435

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46435-16	07/07/16	10:55 JK	07/07/16	SO	Soil	B29-15'
C46435-16R	07/07/16	10:55 JK	07/07/16	SO	Soil	B29-15'
C46435-17	07/07/16	11:00 JK	07/07/16	SO	Soil	B29-20'
C46435-17R	07/07/16	11:00 JK	07/07/16	SO	Soil	B29-20'
C46435-18	07/07/16	11:05 JK	07/07/16	SO	Soil	B29-25'
C46435-18R	07/07/16	11:05 JK	07/07/16	SO	Soil	B29-25'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C46435
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/07/16

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46435-1	B27-2'					
Acetone		213	35		ug/kg	SW846 8260B
Methyl ethyl ketone		38.3	18		ug/kg	SW846 8260B
TPH (C10-C28)		74.0	6.6		mg/kg	SW846 8015B M
TPH (> C28-C40)		113	6.6		mg/kg	SW846 8015B M
Lead		45.9	1.9		mg/kg	SW846 6010B
C46435-1R	B27-2'					
TPH-GRO (C6-C10) ^a		4610 E	88		ug/kg	SW846 8260B
C46435-2	B27-4'					
Acetone		83.3	39		ug/kg	SW846 8260B
TPH (C10-C28)		7.55	3.3		mg/kg	SW846 8015B M
TPH (> C28-C40)		13.3	3.3		mg/kg	SW846 8015B M
Lead		3.9	1.9		mg/kg	SW846 6010B
C46435-2R	B27-4'					
TPH-GRO (C6-C10)		909	97		ug/kg	SW846 8260B
C46435-3	B27-10'					
TPH (C10-C28)		11.5	3.3		mg/kg	SW846 8015B M
TPH (> C28-C40)		9.11	3.3		mg/kg	SW846 8015B M
Lead		9.7	2.0		mg/kg	SW846 6010B
C46435-3R	B27-10'					
TPH-GRO (C6-C10) ^a		97300 E	4900		ug/kg	SW846 8260B
C46435-4	B27-15'					
Benzene		31.6	4.9		ug/kg	SW846 8260B
Ethylbenzene		6.7	4.9		ug/kg	SW846 8260B
Lead		4.8	1.8		mg/kg	SW846 6010B
C46435-4R	B27-15'					
TPH-GRO (C6-C10)		1230	97		ug/kg	SW846 8260B

Summary of Hits

Job Number: C46435
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/07/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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C46435-7 B28-2'

TPH (C10-C28)	33.2	6.6		mg/kg	SW846 8015B M
TPH (> C28-C40)	81.2	6.6		mg/kg	SW846 8015B M
Lead	119	1.9		mg/kg	SW846 6010B

C46435-7R B28-2'

No hits reported in this sample.

C46435-8 B28-4'

TPH (> C28-C40)	25.2	6.6		mg/kg	SW846 8015B M
Lead	5.3	1.8		mg/kg	SW846 6010B

C46435-8R B28-4'

No hits reported in this sample.

C46435-9 B28-10'

Lead	5.7	1.9		mg/kg	SW846 6010B
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C46435-9R B28-10'

No hits reported in this sample.

C46435-10 B28-15'

Ethylbenzene	6600	1200		ug/kg	SW846 8260B
Isopropylbenzene	1940	1200		ug/kg	SW846 8260B
Naphthalene	1210	1200		ug/kg	SW846 8260B
n-Propylbenzene	2440	1200		ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	11200	1200		ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	3830	1200		ug/kg	SW846 8260B
Toluene	8900	1200		ug/kg	SW846 8260B
Xylene (total)	40100	2300		ug/kg	SW846 8260B
Lead	3.9	1.9		mg/kg	SW846 6010B

C46435-10R B28-15'

TPH-GRO (C6-C10) ^a	1570000 E	23000		ug/kg	SW846 8260B
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Summary of Hits

Job Number: C46435
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/07/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46435-11	B28-20'					
Acetone		45.4	36		ug/kg	SW846 8260B
Ethylbenzene		6.6	4.5		ug/kg	SW846 8260B
Naphthalene		5.2	4.5		ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		13.6	4.5		ug/kg	SW846 8260B
Toluene		9.2	4.5		ug/kg	SW846 8260B
Xylene (total)		42.3	9.1		ug/kg	SW846 8260B
Lead		6.2	1.8		mg/kg	SW846 6010B
C46435-11R	B28-20'					
TPH-GRO (C6-C10)		1170	91		ug/kg	SW846 8260B
C46435-12	B28-25'					
Lead		6.3	1.9		mg/kg	SW846 6010B
C46435-12R	B28-25'					
TPH-GRO (C6-C10)		104	93		ug/kg	SW846 8260B
C46435-13	B29-2'					
n-Butylbenzene		353	230		ug/kg	SW846 8260B
Ethylbenzene		288	230		ug/kg	SW846 8260B
Isopropylbenzene		434	230		ug/kg	SW846 8260B
Naphthalene		1680	230		ug/kg	SW846 8260B
n-Propylbenzene		691	230		ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		1500	230		ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		707	230		ug/kg	SW846 8260B
Xylene (total)		648	460		ug/kg	SW846 8260B
TPH (C10-C28)		35.4	3.3		mg/kg	SW846 8015B M
TPH (> C28-C40)		36.6	3.3		mg/kg	SW846 8015B M
Lead		26.5	1.9		mg/kg	SW846 6010B
C46435-13R	B29-2'					
TPH-GRO (C6-C10) ^a		81200 E	4600		ug/kg	SW846 8260B
C46435-14	B29-4'					
n-Butylbenzene		304	240		ug/kg	SW846 8260B
Ethylbenzene		436	240		ug/kg	SW846 8260B
Isopropylbenzene		487	240		ug/kg	SW846 8260B

Summary of Hits

Job Number: C46435
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/07/16

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		486	240		ug/kg	SW846 8260B
n-Propylbenzene		653	240		ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		1340	240		ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		765	240		ug/kg	SW846 8260B
Xylene (total)		704	470		ug/kg	SW846 8260B
TPH (C10-C28)		40.8	6.6		mg/kg	SW846 8015B M
TPH (> C28-C40)		54.0	6.6		mg/kg	SW846 8015B M
Lead		10.5	1.9		mg/kg	SW846 6010B
C46435-14R B29-4'						
TPH-GRO (C6-C10) ^a		188000 E	4700		ug/kg	SW846 8260B
C46435-15 B29-10'						
Benzene		884	560		ug/kg	SW846 8260B
Ethylbenzene		6860	560		ug/kg	SW846 8260B
Isopropylbenzene		1370	560		ug/kg	SW846 8260B
Naphthalene		1000	560		ug/kg	SW846 8260B
n-Propylbenzene		1690	560		ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		8130	560		ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		2380	560		ug/kg	SW846 8260B
Xylene (total)		18900	1100		ug/kg	SW846 8260B
TPH (C10-C28)		17.2	3.3		mg/kg	SW846 8015B M
Lead		4.9	1.9		mg/kg	SW846 6010B
C46435-15R B29-10'						
TPH-GRO (C6-C10) ^a		864000 E	11000		ug/kg	SW846 8260B
C46435-16 B29-15'						
Benzene		937	220		ug/kg	SW846 8260B
Ethylbenzene		1930	220		ug/kg	SW846 8260B
Isopropylbenzene		383	220		ug/kg	SW846 8260B
Naphthalene		226	220		ug/kg	SW846 8260B
n-Propylbenzene		406	220		ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		1690	220		ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		625	220		ug/kg	SW846 8260B
Toluene		1620	220		ug/kg	SW846 8260B
Xylene (total)		8690	440		ug/kg	SW846 8260B
Lead		4.6	1.9		mg/kg	SW846 6010B

Summary of Hits

Job Number: C46435
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/07/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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C46435-16R B29-15'

TPH-GRO (C6-C10) ^a	378000 E	4400			ug/kg	SW846 8260B
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C46435-17 B29-20'

Benzene	296	240			ug/kg	SW846 8260B
TPH (C10-C28)	6.43	3.3			mg/kg	SW846 8015B M
Lead	3.9	1.9			mg/kg	SW846 6010B

C46435-17R B29-20'

No hits reported in this sample.

C46435-18 B29-25'

Lead	3.1	2.0			mg/kg	SW846 6010B
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C46435-18R B29-25'

No hits reported in this sample.

(a) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

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Client Sample ID: B27-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-1		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49975.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #1	Initial Weight
Run #1	5.66 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	213	35	ug/kg	
71-43-2	Benzene	ND	4.4	ug/kg	
108-86-1	Bromobenzene	ND	4.4	ug/kg	
74-97-5	Bromochloromethane	ND	4.4	ug/kg	
75-27-4	Bromodichloromethane	ND	4.4	ug/kg	
75-25-2	Bromoform	ND	4.4	ug/kg	
104-51-8	n-Butylbenzene	ND	4.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.4	ug/kg	
108-90-7	Chlorobenzene	ND	4.4	ug/kg	
75-00-3	Chloroethane	ND	4.4	ug/kg	
67-66-3	Chloroform	ND	4.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.4	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.4	ug/kg	
124-48-1	Dibromochloromethane	ND	4.4	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.4	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.4	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.4	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.4	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-1		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.4	ug/kg	
100-41-4	Ethylbenzene	ND	4.4	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.4	ug/kg	
591-78-6	2-Hexanone	ND	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.4	ug/kg	
98-82-8	Isopropylbenzene	ND	4.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.4	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	18	ug/kg	
74-83-9	Methyl bromide	ND	4.4	ug/kg	
74-87-3	Methyl chloride	ND	4.4	ug/kg	
74-95-3	Methylene bromide	ND	4.4	ug/kg	
75-09-2	Methylene chloride	ND	18	ug/kg	
78-93-3	Methyl ethyl ketone	38.3	18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.4	ug/kg	
91-20-3	Naphthalene	ND	4.4	ug/kg	
103-65-1	n-Propylbenzene	ND	4.4	ug/kg	
100-42-5	Styrene	ND	4.4	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.4	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	35	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.4	ug/kg	
108-88-3	Toluene	ND	4.4	ug/kg	
79-01-6	Trichloroethylene	ND	4.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	ug/kg	
75-01-4	Vinyl chloride	ND	4.4	ug/kg	
1330-20-7	Xylene (total)	ND	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		72-140%
2037-26-5	Toluene-D8	99%		87-113%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-2'	
Lab Sample ID: C46435-1	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B27-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-1		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5209.D	2	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	74.0	6.6	mg/kg	
	TPH (> C28-C40)	113	6.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	79%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-2'	
Lab Sample ID: C46435-1	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	45.9	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: B27-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-1R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49975.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

	Initial Weight
Run #1	5.66 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10) ^b	4610	88	ug/kg	E
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	98%		72-140%	
2037-26-5	Toluene-D8	99%		87-113%	
460-00-4	4-Bromofluorobenzene	89%		81-115%	

(a) All results reported on a wet weight basis.

(b) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B27-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-2		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49976.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #1	Initial Weight
Run #1	5.13 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	83.3	39	ug/kg	
71-43-2	Benzene	ND	4.9	ug/kg	
108-86-1	Bromobenzene	ND	4.9	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	ug/kg	
75-25-2	Bromoform	ND	4.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	ug/kg	
75-00-3	Chloroethane	ND	4.9	ug/kg	
67-66-3	Chloroform	ND	4.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.9	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B27-4'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-2	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.9	ug/kg	
74-87-3	Methyl chloride	ND	4.9	ug/kg	
74-95-3	Methylene bromide	ND	4.9	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	ug/kg	
91-20-3	Naphthalene	ND	4.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	ug/kg	
100-42-5	Styrene	ND	4.9	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	39	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	ug/kg	
108-88-3	Toluene	ND	4.9	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	ug/kg	
1330-20-7	Xylene (total)	ND	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		72-140%
2037-26-5	Toluene-D8	97%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-2		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B27-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-2		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5190.D	1	07/09/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	7.55	3.3	mg/kg	
	TPH (> C28-C40)	13.3	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	79%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-4'	
Lab Sample ID: C46435-2	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.9	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B27-4'	
Lab Sample ID: C46435-2R	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49976.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #	Initial Weight
Run #1	5.13 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	909	97	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	92%		72-140%	
2037-26-5	Toluene-D8	97%		87-113%	
460-00-4	4-Bromofluorobenzene	93%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B27-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-3	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61842.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.07 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2000	ug/kg	
71-43-2	Benzene	ND	250	ug/kg	
108-86-1	Bromobenzene	ND	250	ug/kg	
74-97-5	Bromochloromethane	ND	250	ug/kg	
75-27-4	Bromodichloromethane	ND	250	ug/kg	
75-25-2	Bromoform	ND	250	ug/kg	
104-51-8	n-Butylbenzene	ND	250	ug/kg	
135-98-8	sec-Butylbenzene	ND	250	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	ug/kg	
108-90-7	Chlorobenzene	ND	250	ug/kg	
75-00-3	Chloroethane	ND	250	ug/kg	
67-66-3	Chloroform	ND	250	ug/kg	
95-49-8	o-Chlorotoluene	ND	250	ug/kg	
106-43-4	p-Chlorotoluene	ND	250	ug/kg	
56-23-5	Carbon tetrachloride	ND	250	ug/kg	
75-34-3	1,1-Dichloroethane	ND	250	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	250	ug/kg	
563-58-6	1,1-Dichloropropene	ND	250	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	ug/kg	
106-93-4	1,2-Dibromoethane	ND	250	ug/kg	
107-06-2	1,2-Dichloroethane	ND	250	ug/kg	
78-87-5	1,2-Dichloropropane	ND	250	ug/kg	
142-28-9	1,3-Dichloropropane	ND	250	ug/kg	
108-20-3	Di-Isopropyl ether	ND	250	ug/kg	
594-20-7	2,2-Dichloropropane	ND	250	ug/kg	
124-48-1	Dibromochloromethane	ND	250	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	250	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/kg	
541-73-1	m-Dichlorobenzene	ND	250	ug/kg	
95-50-1	o-Dichlorobenzene	ND	250	ug/kg	
106-46-7	p-Dichlorobenzene	ND	250	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-10'	
Lab Sample ID: C46435-3	
Matrix: SO - Soil	Date Sampled: 07/07/16
Method: SW846 8260B	Date Received: 07/07/16
Project: Premier Hyundai 2820 Broadway Oakland	Percent Solids: n/a ^a

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	250	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/kg	
100-41-4	Ethylbenzene	ND	250	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	250	ug/kg	
591-78-6	2-Hexanone	ND	990	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	ug/kg	
98-82-8	Isopropylbenzene	ND	250	ug/kg	
99-87-6	p-Isopropyltoluene	ND	250	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	990	ug/kg	
74-83-9	Methyl bromide	ND	250	ug/kg	
74-87-3	Methyl chloride	ND	250	ug/kg	
74-95-3	Methylene bromide	ND	250	ug/kg	
75-09-2	Methylene chloride	ND	990	ug/kg	
78-93-3	Methyl ethyl ketone	ND	990	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	250	ug/kg	
91-20-3	Naphthalene	ND	250	ug/kg	
103-65-1	n-Propylbenzene	ND	250	ug/kg	
100-42-5	Styrene	ND	250	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	250	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	2000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	250	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	250	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	250	ug/kg	
127-18-4	Tetrachloroethylene	ND	250	ug/kg	
108-88-3	Toluene	ND	250	ug/kg	
79-01-6	Trichloroethylene	ND	250	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	ug/kg	
75-01-4	Vinyl chloride	ND	250	ug/kg	
1330-20-7	Xylene (total)	ND	490	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		72-140%
2037-26-5	Toluene-D8	97%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-10'	
Lab Sample ID: C46435-3	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-3		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5191.D	1	07/09/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	11.5	3.3	mg/kg	
	TPH (> C28-C40)	9.11	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	71%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-3	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	9.7	2.0	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B27-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-3R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61842.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.07 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10) ^b	97300	4900	ug/kg	E
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	96%		72-140%	
2037-26-5	Toluene-D8	97%		87-113%	
460-00-4	4-Bromofluorobenzene	113%		81-115%	

(a) All results reported on a wet weight basis.

(b) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B27-15'	Date Sampled: 07/07/16
Lab Sample ID: C46435-4	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49980.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

	Initial Weight
Run #1	5.13 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	39	ug/kg	
71-43-2	Benzene	31.6	4.9	ug/kg	
108-86-1	Bromobenzene	ND	4.9	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	ug/kg	
75-25-2	Bromoform	ND	4.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	ug/kg	
75-00-3	Chloroethane	ND	4.9	ug/kg	
67-66-3	Chloroform	ND	4.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.9	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-15'	
Lab Sample ID: C46435-4	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	ug/kg	
100-41-4	Ethylbenzene	6.7	4.9	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.9	ug/kg	
74-87-3	Methyl chloride	ND	4.9	ug/kg	
74-95-3	Methylene bromide	ND	4.9	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	ug/kg	
91-20-3	Naphthalene	ND	4.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	ug/kg	
100-42-5	Styrene	ND	4.9	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	39	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	ug/kg	
108-88-3	Toluene	ND	4.9	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	ug/kg	
1330-20-7	Xylene (total)	ND	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		72-140%
2037-26-5	Toluene-D8	97%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-15'	
Lab Sample ID: C46435-4	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B27-15'	Date Sampled: 07/07/16
Lab Sample ID: C46435-4	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5192.D	1	07/09/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	76%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27-15'	Date Sampled: 07/07/16
Lab Sample ID: C46435-4	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	4.8	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B27-15'	Date Sampled: 07/07/16
Lab Sample ID: C46435-4R	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49980.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #	Initial Weight
Run #1	5.13 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	1230	97	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	94%		72-140%	
2037-26-5	Toluene-D8	97%		87-113%	
460-00-4	4-Bromofluorobenzene	95%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B28-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-7		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49988.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #1	Initial Weight
Run #1	5.77 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	35	ug/kg	
71-43-2	Benzene	ND	4.3	ug/kg	
108-86-1	Bromobenzene	ND	4.3	ug/kg	
74-97-5	Bromochloromethane	ND	4.3	ug/kg	
75-27-4	Bromodichloromethane	ND	4.3	ug/kg	
75-25-2	Bromoform	ND	4.3	ug/kg	
104-51-8	n-Butylbenzene	ND	4.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.3	ug/kg	
108-90-7	Chlorobenzene	ND	4.3	ug/kg	
75-00-3	Chloroethane	ND	4.3	ug/kg	
67-66-3	Chloroform	ND	4.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.3	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.3	ug/kg	
124-48-1	Dibromochloromethane	ND	4.3	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.3	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-7		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.3	ug/kg	
100-41-4	Ethylbenzene	ND	4.3	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.3	ug/kg	
591-78-6	2-Hexanone	ND	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.3	ug/kg	
98-82-8	Isopropylbenzene	ND	4.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	17	ug/kg	
74-83-9	Methyl bromide	ND	4.3	ug/kg	
74-87-3	Methyl chloride	ND	4.3	ug/kg	
74-95-3	Methylene bromide	ND	4.3	ug/kg	
75-09-2	Methylene chloride	ND	17	ug/kg	
78-93-3	Methyl ethyl ketone	ND	17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.3	ug/kg	
91-20-3	Naphthalene	ND	4.3	ug/kg	
103-65-1	n-Propylbenzene	ND	4.3	ug/kg	
100-42-5	Styrene	ND	4.3	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	35	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.3	ug/kg	
108-88-3	Toluene	ND	4.3	ug/kg	
79-01-6	Trichloroethylene	ND	4.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.3	ug/kg	
75-01-4	Vinyl chloride	ND	4.3	ug/kg	
1330-20-7	Xylene (total)	ND	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		72-140%
2037-26-5	Toluene-D8	98%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-2'	
Lab Sample ID: C46435-7	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-7		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5210.D	2	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	33.2	6.6	mg/kg	
	TPH (> C28-C40)	81.2	6.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	85%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-2'	Date Sampled: 07/07/16
Lab Sample ID: C46435-7	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	119	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B28-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-7R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49988.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

	Initial Weight
Run #1	5.77 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	87	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	89%		72-140%	
2037-26-5	Toluene-D8	98%		87-113%	
460-00-4	4-Bromofluorobenzene	91%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B28-4'	Date Sampled: 07/07/16
Lab Sample ID: C46435-8	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	L49961.D	1	07/11/16	JT	n/a	n/a	VL1498

Run #1	Initial Weight
Run #2	5.77 g

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	35	ug/kg	
71-43-2	Benzene	ND	4.3	ug/kg	
108-86-1	Bromobenzene	ND	4.3	ug/kg	
74-97-5	Bromochloromethane	ND	4.3	ug/kg	
75-27-4	Bromodichloromethane	ND	4.3	ug/kg	
75-25-2	Bromoform	ND	4.3	ug/kg	
104-51-8	n-Butylbenzene	ND	4.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.3	ug/kg	
108-90-7	Chlorobenzene	ND	4.3	ug/kg	
75-00-3	Chloroethane	ND	4.3	ug/kg	
67-66-3	Chloroform	ND	4.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.3	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.3	ug/kg	
124-48-1	Dibromochloromethane	ND	4.3	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.3	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B28-4'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-8	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.3	ug/kg	
100-41-4	Ethylbenzene	ND	4.3	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.3	ug/kg	
591-78-6	2-Hexanone	ND	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.3	ug/kg	
98-82-8	Isopropylbenzene	ND	4.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	17	ug/kg	
74-83-9	Methyl bromide	ND	4.3	ug/kg	
74-87-3	Methyl chloride	ND	4.3	ug/kg	
74-95-3	Methylene bromide	ND	4.3	ug/kg	
75-09-2	Methylene chloride	ND	17	ug/kg	
78-93-3	Methyl ethyl ketone	ND	17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.3	ug/kg	
91-20-3	Naphthalene	ND	4.3	ug/kg	
103-65-1	n-Propylbenzene	ND	4.3	ug/kg	
100-42-5	Styrene	ND	4.3	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.3	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	35	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.3	ug/kg	
108-88-3	Toluene	ND	4.3	ug/kg	
79-01-6	Trichloroethylene	ND	4.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.3	ug/kg	
75-01-4	Vinyl chloride	ND	4.3	ug/kg	
1330-20-7	Xylene (total)	ND	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B28-4'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-8	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		81-115%

(a) All results reported on a wet weight basis.

(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-8		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5211.D	2	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	6.6	mg/kg	
	TPH (> C28-C40)	25.2	6.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	80%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-8		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	5.3	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B28-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-8R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49961.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

	Initial Weight
Run #1	5.77 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	87	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		72-140%	
2037-26-5	Toluene-D8	95%		87-113%	
460-00-4	4-Bromofluorobenzene	96%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B28-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-9	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	L49962.D	1	07/11/16	JT	n/a	n/a	VL1498

Run #1	Initial Weight
Run #2	5.31 g

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	38	ug/kg	
71-43-2	Benzene	ND	4.7	ug/kg	
108-86-1	Bromobenzene	ND	4.7	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	ug/kg	
75-25-2	Bromoform	ND	4.7	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	ug/kg	
75-00-3	Chloroethane	ND	4.7	ug/kg	
67-66-3	Chloroform	ND	4.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-9		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.7	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.7	ug/kg	
74-87-3	Methyl chloride	ND	4.7	ug/kg	
74-95-3	Methylene bromide	ND	4.7	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	ug/kg	
91-20-3	Naphthalene	ND	4.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	ug/kg	
100-42-5	Styrene	ND	4.7	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.7	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	38	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	ug/kg	
108-88-3	Toluene	ND	4.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	ug/kg	
1330-20-7	Xylene (total)	ND	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-140%
2037-26-5	Toluene-D8	97%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-9		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-9		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5195.D	1	07/09/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	72%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-9	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	5.7	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B28-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-9R	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49962.D	1	07/11/16	JT	n/a	n/a	VL1498
Run #2							

Run #	Initial Weight
Run #1	5.31 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	94	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		72-140%	
2037-26-5	Toluene-D8	97%		87-113%	
460-00-4	4-Bromofluorobenzene	98%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: B28-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-10		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61920.D	1	07/18/16	JT	n/a	n/a	VM1861
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.38 g	5.0 ml	20.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	9300	ug/kg	
71-43-2	Benzene	ND	1200	ug/kg	
108-86-1	Bromobenzene	ND	1200	ug/kg	
74-97-5	Bromochloromethane	ND	1200	ug/kg	
75-27-4	Bromodichloromethane	ND	1200	ug/kg	
75-25-2	Bromoform	ND	1200	ug/kg	
104-51-8	n-Butylbenzene	ND	1200	ug/kg	
135-98-8	sec-Butylbenzene	ND	1200	ug/kg	
98-06-6	tert-Butylbenzene	ND	1200	ug/kg	
108-90-7	Chlorobenzene	ND	1200	ug/kg	
75-00-3	Chloroethane	ND	1200	ug/kg	
67-66-3	Chloroform	ND	1200	ug/kg	
95-49-8	o-Chlorotoluene	ND	1200	ug/kg	
106-43-4	p-Chlorotoluene	ND	1200	ug/kg	
56-23-5	Carbon tetrachloride	ND	1200	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1200	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	1200	ug/kg	
563-58-6	1,1-Dichloropropene	ND	1200	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1200	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1200	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1200	ug/kg	
142-28-9	1,3-Dichloropropane	ND	1200	ug/kg	
108-20-3	Di-Isopropyl ether	ND	1200	ug/kg	
594-20-7	2,2-Dichloropropane	ND	1200	ug/kg	
124-48-1	Dibromochloromethane	ND	1200	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	1200	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	1200	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1200	ug/kg	
541-73-1	m-Dichlorobenzene	ND	1200	ug/kg	
95-50-1	o-Dichlorobenzene	ND	1200	ug/kg	
106-46-7	p-Dichlorobenzene	ND	1200	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-10		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1200	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1200	ug/kg	
100-41-4	Ethylbenzene	6600	1200	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	1200	ug/kg	
591-78-6	2-Hexanone	ND	4600	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1200	ug/kg	
98-82-8	Isopropylbenzene	1940	1200	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1200	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	4600	ug/kg	
74-83-9	Methyl bromide	ND	1200	ug/kg	
74-87-3	Methyl chloride	ND	1200	ug/kg	
74-95-3	Methylene bromide	ND	1200	ug/kg	
75-09-2	Methylene chloride	ND	4600	ug/kg	
78-93-3	Methyl ethyl ketone	ND	4600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1200	ug/kg	
91-20-3	Naphthalene	1210	1200	ug/kg	
103-65-1	n-Propylbenzene	2440	1200	ug/kg	
100-42-5	Styrene	ND	1200	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	1200	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	9300	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1200	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1200	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	1200	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	1200	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1200	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	11200	1200	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	3830	1200	ug/kg	
127-18-4	Tetrachloroethylene	ND	1200	ug/kg	
108-88-3	Toluene	8900	1200	ug/kg	
79-01-6	Trichloroethylene	ND	1200	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1200	ug/kg	
75-01-4	Vinyl chloride	ND	1200	ug/kg	
1330-20-7	Xylene (total)	40100	2300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		72-140%
2037-26-5	Toluene-D8	99%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-15'	
Lab Sample ID: C46435-10	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: B28-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-10		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5196.D	1	07/09/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	73%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-15'	Date Sampled: 07/07/16
Lab Sample ID: C46435-10	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.9	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B28-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-10R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61920.D	1	07/18/16	JT	n/a	n/a	VM1861
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.38 g	5.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10) ^b	1570000	23000	ug/kg	E
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	89%		72-140%	
2037-26-5	Toluene-D8	99%		87-113%	
460-00-4	4-Bromofluorobenzene	109%		81-115%	

(a) All results reported on a wet weight basis.

(b) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: B28-20'	Date Sampled: 07/07/16
Lab Sample ID: C46435-11	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	L49982.D	1	07/12/16	JT	n/a	n/a	VL1499

Run #1	Initial Weight
Run #2	5.51 g

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	45.4	36	ug/kg	
71-43-2	Benzene	ND	4.5	ug/kg	
108-86-1	Bromobenzene	ND	4.5	ug/kg	
74-97-5	Bromochloromethane	ND	4.5	ug/kg	
75-27-4	Bromodichloromethane	ND	4.5	ug/kg	
75-25-2	Bromoform	ND	4.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.5	ug/kg	
108-90-7	Chlorobenzene	ND	4.5	ug/kg	
75-00-3	Chloroethane	ND	4.5	ug/kg	
67-66-3	Chloroform	ND	4.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.5	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.5	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.5	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.5	ug/kg	
124-48-1	Dibromochloromethane	ND	4.5	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.5	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.5	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.5	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.5	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-20'	Date Sampled: 07/07/16
Lab Sample ID: C46435-11	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.5	ug/kg	
100-41-4	Ethylbenzene	6.6	4.5	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.5	ug/kg	
591-78-6	2-Hexanone	ND	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.5	ug/kg	
98-82-8	Isopropylbenzene	ND	4.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.5	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	18	ug/kg	
74-83-9	Methyl bromide	ND	4.5	ug/kg	
74-87-3	Methyl chloride	ND	4.5	ug/kg	
74-95-3	Methylene bromide	ND	4.5	ug/kg	
75-09-2	Methylene chloride	ND	18	ug/kg	
78-93-3	Methyl ethyl ketone	ND	18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.5	ug/kg	
91-20-3	Naphthalene	5.2	4.5	ug/kg	
103-65-1	n-Propylbenzene	ND	4.5	ug/kg	
100-42-5	Styrene	ND	4.5	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.5	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	36	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.5	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	13.6	4.5	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.5	ug/kg	
108-88-3	Toluene	9.2	4.5	ug/kg	
79-01-6	Trichloroethylene	ND	4.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.5	ug/kg	
75-01-4	Vinyl chloride	ND	4.5	ug/kg	
1330-20-7	Xylene (total)	42.3	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		72-140%
2037-26-5	Toluene-D8	100%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-20'		Date Sampled: 07/07/16
Lab Sample ID: C46435-11		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-20'		Date Sampled: 07/07/16
Lab Sample ID: C46435-11		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5198.D	1	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	75%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-20'	Date Sampled: 07/07/16
Lab Sample ID: C46435-11	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.2	1.8	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID: B28-20'		Date Sampled: 07/07/16
Lab Sample ID: C46435-11R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49982.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #	Initial Weight
Run #1	5.51 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	1170	91	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	90%		72-140%	
2037-26-5	Toluene-D8	100%		87-113%	
460-00-4	4-Bromofluorobenzene	95%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: B28-25'		Date Sampled: 07/07/16
Lab Sample ID: C46435-12		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49983.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #1	Initial Weight
Run #1	5.35 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	37	ug/kg	
71-43-2	Benzene	ND	4.7	ug/kg	
108-86-1	Bromobenzene	ND	4.7	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	ug/kg	
75-25-2	Bromoform	ND	4.7	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	ug/kg	
75-00-3	Chloroethane	ND	4.7	ug/kg	
67-66-3	Chloroform	ND	4.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B28-25'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-12	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.7	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.7	ug/kg	
74-87-3	Methyl chloride	ND	4.7	ug/kg	
74-95-3	Methylene bromide	ND	4.7	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	ug/kg	
91-20-3	Naphthalene	ND	4.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	ug/kg	
100-42-5	Styrene	ND	4.7	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.7	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	37	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	ug/kg	
108-88-3	Toluene	ND	4.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	ug/kg	
1330-20-7	Xylene (total)	ND	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		72-140%
2037-26-5	Toluene-D8	97%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-25'		Date Sampled: 07/07/16
Lab Sample ID: C46435-12		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		81-115%

- (a) All results reported on a wet weight basis.
- (b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	B28-25'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-12	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015B M SW846 3550B		
Project:	Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5199.D	1	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	75%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28-25'	Date Sampled: 07/07/16
Lab Sample ID: C46435-12	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.3	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

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Report of Analysis

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Client Sample ID: B28-25'		Date Sampled: 07/07/16
Lab Sample ID: C46435-12R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49983.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #	Initial Weight
Run #1	5.35 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	104	93	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	87%		72-140%	
2037-26-5	Toluene-D8	97%		87-113%	
460-00-4	4-Bromofluorobenzene	90%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-13		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61843.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.43 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1800	ug/kg	
71-43-2	Benzene	ND	230	ug/kg	
108-86-1	Bromobenzene	ND	230	ug/kg	
74-97-5	Bromochloromethane	ND	230	ug/kg	
75-27-4	Bromodichloromethane	ND	230	ug/kg	
75-25-2	Bromoform	ND	230	ug/kg	
104-51-8	n-Butylbenzene	353	230	ug/kg	
135-98-8	sec-Butylbenzene	ND	230	ug/kg	
98-06-6	tert-Butylbenzene	ND	230	ug/kg	
108-90-7	Chlorobenzene	ND	230	ug/kg	
75-00-3	Chloroethane	ND	230	ug/kg	
67-66-3	Chloroform	ND	230	ug/kg	
95-49-8	o-Chlorotoluene	ND	230	ug/kg	
106-43-4	p-Chlorotoluene	ND	230	ug/kg	
56-23-5	Carbon tetrachloride	ND	230	ug/kg	
75-34-3	1,1-Dichloroethane	ND	230	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	230	ug/kg	
563-58-6	1,1-Dichloropropene	ND	230	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	230	ug/kg	
106-93-4	1,2-Dibromoethane	ND	230	ug/kg	
107-06-2	1,2-Dichloroethane	ND	230	ug/kg	
78-87-5	1,2-Dichloropropane	ND	230	ug/kg	
142-28-9	1,3-Dichloropropane	ND	230	ug/kg	
108-20-3	Di-Isopropyl ether	ND	230	ug/kg	
594-20-7	2,2-Dichloropropane	ND	230	ug/kg	
124-48-1	Dibromochloromethane	ND	230	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	230	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	230	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	230	ug/kg	
541-73-1	m-Dichlorobenzene	ND	230	ug/kg	
95-50-1	o-Dichlorobenzene	ND	230	ug/kg	
106-46-7	p-Dichlorobenzene	ND	230	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-13		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	230	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	230	ug/kg	
100-41-4	Ethylbenzene	288	230	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	230	ug/kg	
591-78-6	2-Hexanone	ND	920	ug/kg	
87-68-3	Hexachlorobutadiene	ND	230	ug/kg	
98-82-8	Isopropylbenzene	434	230	ug/kg	
99-87-6	p-Isopropyltoluene	ND	230	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	920	ug/kg	
74-83-9	Methyl bromide	ND	230	ug/kg	
74-87-3	Methyl chloride	ND	230	ug/kg	
74-95-3	Methylene bromide	ND	230	ug/kg	
75-09-2	Methylene chloride	ND	920	ug/kg	
78-93-3	Methyl ethyl ketone	ND	920	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	230	ug/kg	
91-20-3	Naphthalene	1680	230	ug/kg	
103-65-1	n-Propylbenzene	691	230	ug/kg	
100-42-5	Styrene	ND	230	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	230	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1800	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	230	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	230	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	230	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	230	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	230	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	230	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	230	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1500	230	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	707	230	ug/kg	
127-18-4	Tetrachloroethylene	ND	230	ug/kg	
108-88-3	Toluene	ND	230	ug/kg	
79-01-6	Trichloroethylene	ND	230	ug/kg	
75-69-4	Trichlorofluoromethane	ND	230	ug/kg	
75-01-4	Vinyl chloride	ND	230	ug/kg	
1330-20-7	Xylene (total)	648	460	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		72-140%
2037-26-5	Toluene-D8	96%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-13		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B29-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-13		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5200.D	1	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	35.4	3.3	mg/kg	
	TPH (> C28-C40)	36.6	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	79%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-2'	Date Sampled: 07/07/16
Lab Sample ID: C46435-13	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	26.5	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID: B29-2'		Date Sampled: 07/07/16
Lab Sample ID: C46435-13R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61843.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.43 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10) ^b	81200	4600	ug/kg	E
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	92%		72-140%	
2037-26-5	Toluene-D8	96%		87-113%	
460-00-4	4-Bromofluorobenzene	108%		81-115%	

(a) All results reported on a wet weight basis.

(b) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: B29-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-14		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61844.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.31 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1900	ug/kg	
71-43-2	Benzene	ND	240	ug/kg	
108-86-1	Bromobenzene	ND	240	ug/kg	
74-97-5	Bromochloromethane	ND	240	ug/kg	
75-27-4	Bromodichloromethane	ND	240	ug/kg	
75-25-2	Bromoform	ND	240	ug/kg	
104-51-8	n-Butylbenzene	304	240	ug/kg	
135-98-8	sec-Butylbenzene	ND	240	ug/kg	
98-06-6	tert-Butylbenzene	ND	240	ug/kg	
108-90-7	Chlorobenzene	ND	240	ug/kg	
75-00-3	Chloroethane	ND	240	ug/kg	
67-66-3	Chloroform	ND	240	ug/kg	
95-49-8	o-Chlorotoluene	ND	240	ug/kg	
106-43-4	p-Chlorotoluene	ND	240	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	ug/kg	
563-58-6	1,1-Dichloropropene	ND	240	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	240	ug/kg	
106-93-4	1,2-Dibromoethane	ND	240	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	ug/kg	
142-28-9	1,3-Dichloropropane	ND	240	ug/kg	
108-20-3	Di-Isopropyl ether	ND	240	ug/kg	
594-20-7	2,2-Dichloropropane	ND	240	ug/kg	
124-48-1	Dibromochloromethane	ND	240	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	240	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	ug/kg	
541-73-1	m-Dichlorobenzene	ND	240	ug/kg	
95-50-1	o-Dichlorobenzene	ND	240	ug/kg	
106-46-7	p-Dichlorobenzene	ND	240	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-14		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	240	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	ug/kg	
100-41-4	Ethylbenzene	436	240	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	240	ug/kg	
591-78-6	2-Hexanone	ND	940	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	ug/kg	
98-82-8	Isopropylbenzene	487	240	ug/kg	
99-87-6	p-Isopropyltoluene	ND	240	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	940	ug/kg	
74-83-9	Methyl bromide	ND	240	ug/kg	
74-87-3	Methyl chloride	ND	240	ug/kg	
74-95-3	Methylene bromide	ND	240	ug/kg	
75-09-2	Methylene chloride	ND	940	ug/kg	
78-93-3	Methyl ethyl ketone	ND	940	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	240	ug/kg	
91-20-3	Naphthalene	486	240	ug/kg	
103-65-1	n-Propylbenzene	653	240	ug/kg	
100-42-5	Styrene	ND	240	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	240	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1900	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	240	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	240	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	240	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1340	240	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	765	240	ug/kg	
127-18-4	Tetrachloroethylene	ND	240	ug/kg	
108-88-3	Toluene	ND	240	ug/kg	
79-01-6	Trichloroethylene	ND	240	ug/kg	
75-69-4	Trichlorofluoromethane	ND	240	ug/kg	
75-01-4	Vinyl chloride	ND	240	ug/kg	
1330-20-7	Xylene (total)	704	470	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-14		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	115%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-14		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5212.D	2	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	40.8	6.6	mg/kg	
	TPH (> C28-C40)	54.0	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	81%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-4'	
Lab Sample ID: C46435-14	Date Sampled: 07/07/16
Matrix: SO - Soil	Date Received: 07/07/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	10.5	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID: B29-4'		Date Sampled: 07/07/16
Lab Sample ID: C46435-14R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61844.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.31 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10) ^b	188000	4700	ug/kg	E
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	90%		72-140%	
2037-26-5	Toluene-D8	95%		87-113%	
460-00-4	4-Bromofluorobenzene	115%		81-115%	

(a) All results reported on a wet weight basis.

(b) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: B29-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-15	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61919.D	1	07/18/16	JT	n/a	n/a	VM1861
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.63 g	5.0 ml	40.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	4400	ug/kg	
71-43-2	Benzene	884	560	ug/kg	
108-86-1	Bromobenzene	ND	560	ug/kg	
74-97-5	Bromochloromethane	ND	560	ug/kg	
75-27-4	Bromodichloromethane	ND	560	ug/kg	
75-25-2	Bromoform	ND	560	ug/kg	
104-51-8	n-Butylbenzene	ND	560	ug/kg	
135-98-8	sec-Butylbenzene	ND	560	ug/kg	
98-06-6	tert-Butylbenzene	ND	560	ug/kg	
108-90-7	Chlorobenzene	ND	560	ug/kg	
75-00-3	Chloroethane	ND	560	ug/kg	
67-66-3	Chloroform	ND	560	ug/kg	
95-49-8	o-Chlorotoluene	ND	560	ug/kg	
106-43-4	p-Chlorotoluene	ND	560	ug/kg	
56-23-5	Carbon tetrachloride	ND	560	ug/kg	
75-34-3	1,1-Dichloroethane	ND	560	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	560	ug/kg	
563-58-6	1,1-Dichloropropene	ND	560	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	560	ug/kg	
106-93-4	1,2-Dibromoethane	ND	560	ug/kg	
107-06-2	1,2-Dichloroethane	ND	560	ug/kg	
78-87-5	1,2-Dichloropropane	ND	560	ug/kg	
142-28-9	1,3-Dichloropropane	ND	560	ug/kg	
108-20-3	Di-Isopropyl ether	ND	560	ug/kg	
594-20-7	2,2-Dichloropropane	ND	560	ug/kg	
124-48-1	Dibromochloromethane	ND	560	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	560	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	560	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	560	ug/kg	
541-73-1	m-Dichlorobenzene	ND	560	ug/kg	
95-50-1	o-Dichlorobenzene	ND	560	ug/kg	
106-46-7	p-Dichlorobenzene	ND	560	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-15		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	560	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	560	ug/kg	
100-41-4	Ethylbenzene	6860	560	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	560	ug/kg	
591-78-6	2-Hexanone	ND	2200	ug/kg	
87-68-3	Hexachlorobutadiene	ND	560	ug/kg	
98-82-8	Isopropylbenzene	1370	560	ug/kg	
99-87-6	p-Isopropyltoluene	ND	560	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	2200	ug/kg	
74-83-9	Methyl bromide	ND	560	ug/kg	
74-87-3	Methyl chloride	ND	560	ug/kg	
74-95-3	Methylene bromide	ND	560	ug/kg	
75-09-2	Methylene chloride	ND	2200	ug/kg	
78-93-3	Methyl ethyl ketone	ND	2200	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	560	ug/kg	
91-20-3	Naphthalene	1000	560	ug/kg	
103-65-1	n-Propylbenzene	1690	560	ug/kg	
100-42-5	Styrene	ND	560	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	560	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	4400	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	560	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	560	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	560	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	560	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	560	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	560	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	560	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	8130	560	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	2380	560	ug/kg	
127-18-4	Tetrachloroethylene	ND	560	ug/kg	
108-88-3	Toluene	ND	560	ug/kg	
79-01-6	Trichloroethylene	ND	560	ug/kg	
75-69-4	Trichlorofluoromethane	ND	560	ug/kg	
75-01-4	Vinyl chloride	ND	560	ug/kg	
1330-20-7	Xylene (total)	18900	1100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		72-140%
2037-26-5	Toluene-D8	99%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-15		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-10'		Date Sampled: 07/07/16
Lab Sample ID: C46435-15		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5201.D	1	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	17.2	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	75%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-15	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	4.9	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID: B29-10'	Date Sampled: 07/07/16
Lab Sample ID: C46435-15R	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61919.D	1	07/18/16	JT	n/a	n/a	VM1861
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.63 g	5.0 ml	40.0 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10) ^b	864000	11000	ug/kg	E
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	92%		72-140%	
2037-26-5	Toluene-D8	99%		87-113%	
460-00-4	4-Bromofluorobenzene	112%		81-115%	

(a) All results reported on a wet weight basis.

(b) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID:	B29-15'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-16	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61846.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.67 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1800	ug/kg	
71-43-2	Benzene	937	220	ug/kg	
108-86-1	Bromobenzene	ND	220	ug/kg	
74-97-5	Bromochloromethane	ND	220	ug/kg	
75-27-4	Bromodichloromethane	ND	220	ug/kg	
75-25-2	Bromoform	ND	220	ug/kg	
104-51-8	n-Butylbenzene	ND	220	ug/kg	
135-98-8	sec-Butylbenzene	ND	220	ug/kg	
98-06-6	tert-Butylbenzene	ND	220	ug/kg	
108-90-7	Chlorobenzene	ND	220	ug/kg	
75-00-3	Chloroethane	ND	220	ug/kg	
67-66-3	Chloroform	ND	220	ug/kg	
95-49-8	o-Chlorotoluene	ND	220	ug/kg	
106-43-4	p-Chlorotoluene	ND	220	ug/kg	
56-23-5	Carbon tetrachloride	ND	220	ug/kg	
75-34-3	1,1-Dichloroethane	ND	220	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	220	ug/kg	
563-58-6	1,1-Dichloropropene	ND	220	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	220	ug/kg	
106-93-4	1,2-Dibromoethane	ND	220	ug/kg	
107-06-2	1,2-Dichloroethane	ND	220	ug/kg	
78-87-5	1,2-Dichloropropane	ND	220	ug/kg	
142-28-9	1,3-Dichloropropane	ND	220	ug/kg	
108-20-3	Di-Isopropyl ether	ND	220	ug/kg	
594-20-7	2,2-Dichloropropane	ND	220	ug/kg	
124-48-1	Dibromochloromethane	ND	220	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	220	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	220	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	220	ug/kg	
541-73-1	m-Dichlorobenzene	ND	220	ug/kg	
95-50-1	o-Dichlorobenzene	ND	220	ug/kg	
106-46-7	p-Dichlorobenzene	ND	220	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-16		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	220	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	220	ug/kg	
100-41-4	Ethylbenzene	1930	220	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	220	ug/kg	
591-78-6	2-Hexanone	ND	880	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	ug/kg	
98-82-8	Isopropylbenzene	383	220	ug/kg	
99-87-6	p-Isopropyltoluene	ND	220	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	880	ug/kg	
74-83-9	Methyl bromide	ND	220	ug/kg	
74-87-3	Methyl chloride	ND	220	ug/kg	
74-95-3	Methylene bromide	ND	220	ug/kg	
75-09-2	Methylene chloride	ND	880	ug/kg	
78-93-3	Methyl ethyl ketone	ND	880	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	220	ug/kg	
91-20-3	Naphthalene	226	220	ug/kg	
103-65-1	n-Propylbenzene	406	220	ug/kg	
100-42-5	Styrene	ND	220	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	220	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1800	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	220	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	220	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	220	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	220	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	220	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	220	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1690	220	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	625	220	ug/kg	
127-18-4	Tetrachloroethylene	ND	220	ug/kg	
108-88-3	Toluene	1620	220	ug/kg	
79-01-6	Trichloroethylene	ND	220	ug/kg	
75-69-4	Trichlorofluoromethane	ND	220	ug/kg	
75-01-4	Vinyl chloride	ND	220	ug/kg	
1330-20-7	Xylene (total)	8690	440	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-16		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-16		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5202.D	1	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	76%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-15'	Date Sampled: 07/07/16
Lab Sample ID: C46435-16	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	4.6	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B29-15'		Date Sampled: 07/07/16
Lab Sample ID: C46435-16R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61846.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.67 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10) ^b	378000	4400	ug/kg	E
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	86%		72-140%	
2037-26-5	Toluene-D8	95%		87-113%	
460-00-4	4-Bromofluorobenzene	107%		81-115%	

(a) All results reported on a wet weight basis.

(b) Result reported as an estimated value (exceeded calibration range). Compound was retrieved per client request.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: B29-20'	Date Sampled: 07/07/16
Lab Sample ID: C46435-17	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61845.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1900	ug/kg	
71-43-2	Benzene	296	240	ug/kg	
108-86-1	Bromobenzene	ND	240	ug/kg	
74-97-5	Bromochloromethane	ND	240	ug/kg	
75-27-4	Bromodichloromethane	ND	240	ug/kg	
75-25-2	Bromoform	ND	240	ug/kg	
104-51-8	n-Butylbenzene	ND	240	ug/kg	
135-98-8	sec-Butylbenzene	ND	240	ug/kg	
98-06-6	tert-Butylbenzene	ND	240	ug/kg	
108-90-7	Chlorobenzene	ND	240	ug/kg	
75-00-3	Chloroethane	ND	240	ug/kg	
67-66-3	Chloroform	ND	240	ug/kg	
95-49-8	o-Chlorotoluene	ND	240	ug/kg	
106-43-4	p-Chlorotoluene	ND	240	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	ug/kg	
563-58-6	1,1-Dichloropropene	ND	240	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	240	ug/kg	
106-93-4	1,2-Dibromoethane	ND	240	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	ug/kg	
142-28-9	1,3-Dichloropropane	ND	240	ug/kg	
108-20-3	Di-Isopropyl ether	ND	240	ug/kg	
594-20-7	2,2-Dichloropropane	ND	240	ug/kg	
124-48-1	Dibromochloromethane	ND	240	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	240	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	ug/kg	
541-73-1	m-Dichlorobenzene	ND	240	ug/kg	
95-50-1	o-Dichlorobenzene	ND	240	ug/kg	
106-46-7	p-Dichlorobenzene	ND	240	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B29-20'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-17	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	240	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	ug/kg	
100-41-4	Ethylbenzene	ND	240	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	240	ug/kg	
591-78-6	2-Hexanone	ND	960	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	ug/kg	
98-82-8	Isopropylbenzene	ND	240	ug/kg	
99-87-6	p-Isopropyltoluene	ND	240	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	960	ug/kg	
74-83-9	Methyl bromide	ND	240	ug/kg	
74-87-3	Methyl chloride	ND	240	ug/kg	
74-95-3	Methylene bromide	ND	240	ug/kg	
75-09-2	Methylene chloride	ND	960	ug/kg	
78-93-3	Methyl ethyl ketone	ND	960	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	240	ug/kg	
91-20-3	Naphthalene	ND	240	ug/kg	
103-65-1	n-Propylbenzene	ND	240	ug/kg	
100-42-5	Styrene	ND	240	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	240	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1900	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	240	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	240	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	240	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	240	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	240	ug/kg	
127-18-4	Tetrachloroethylene	ND	240	ug/kg	
108-88-3	Toluene	ND	240	ug/kg	
79-01-6	Trichloroethylene	ND	240	ug/kg	
75-69-4	Trichlorofluoromethane	ND	240	ug/kg	
75-01-4	Vinyl chloride	ND	240	ug/kg	
1330-20-7	Xylene (total)	ND	480	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		72-140%
2037-26-5	Toluene-D8	94%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-20'		Date Sampled: 07/07/16
Lab Sample ID: C46435-17		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-20'	Date Sampled: 07/07/16
Lab Sample ID: C46435-17	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5203.D	1	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	6.43	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	77%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-20'		Date Sampled: 07/07/16
Lab Sample ID: C46435-17		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.9	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B29-20'	Date Sampled: 07/07/16
Lab Sample ID: C46435-17R	Date Received: 07/07/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61845.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	4800	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	89%		72-140%	
2037-26-5	Toluene-D8	94%		87-113%	
460-00-4	4-Bromofluorobenzene	101%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: B29-25'		Date Sampled: 07/07/16
Lab Sample ID: C46435-18		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49986.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #1	Initial Weight
Run #1	5.37 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	37	ug/kg	
71-43-2	Benzene	ND	4.7	ug/kg	
108-86-1	Bromobenzene	ND	4.7	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	ug/kg	
75-25-2	Bromoform	ND	4.7	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	ug/kg	
75-00-3	Chloroethane	ND	4.7	ug/kg	
67-66-3	Chloroform	ND	4.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	ug/kg	
75-71-8	Dichlorodifluoromethane ^b	ND	4.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B29-25'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-18	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.7	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.7	ug/kg	
74-87-3	Methyl chloride	ND	4.7	ug/kg	
74-95-3	Methylene bromide	ND	4.7	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	ug/kg	
91-20-3	Naphthalene	ND	4.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	ug/kg	
100-42-5	Styrene	ND	4.7	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.7	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	37	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	ug/kg	
108-88-3	Toluene	ND	4.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	ug/kg	
1330-20-7	Xylene (total)	ND	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		72-140%
2037-26-5	Toluene-D8	99%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B29-25'	Date Sampled:	07/07/16
Lab Sample ID:	C46435-18	Date Received:	07/07/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		81-115%

(a) All results reported on a wet weight basis.

(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-25'		Date Sampled: 07/07/16
Lab Sample ID: C46435-18		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5204.D	1	07/10/16	MT	07/08/16	OP14613	GBB170
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	ND	3.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	74%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29-25'		Date Sampled: 07/07/16
Lab Sample ID: C46435-18		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.1	2.0	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11595

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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3

Client Sample ID: B29-25'		Date Sampled: 07/07/16
Lab Sample ID: C46435-18R		Date Received: 07/07/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L49986.D	1	07/12/16	JT	n/a	n/a	VL1499
Run #2							

Run #	Initial Weight
Run #1	5.37 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	93	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	88%		72-140%	
2037-26-5	Toluene-D8	99%		87-113%	
460-00-4	4-Bromofluorobenzene	89%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Report To					Analysis Request															
Attn: <u>Gabe Stivala</u>					Volatile Organics (VOCs) <input checked="" type="checkbox"/> EPA 8260B HVOCs by <input type="checkbox"/> EPA 8260B EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Organics <input type="checkbox"/> DCA, EDC <input type="checkbox"/> Ethanol TEPH EPA 8015B <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel Motor Oil <input type="checkbox"/> Other SemiVolatile Organics (SVOCs) <input type="checkbox"/> EPA 8270C PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664/9071) <input type="checkbox"/> Total Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 CAN/7 Metals (EPA 60107/07-71) Metals: <input type="checkbox"/> 60108 <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> CRCA <input type="checkbox"/> Other: Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (CPAMS): <input type="checkbox"/> WET (STIC) <input type="checkbox"/> TCLP <input type="checkbox"/> WET (DI) <input type="checkbox"/> TCLP Hex. Chrom by <input type="checkbox"/> EPA 7195 <input type="checkbox"/> or EPA 7199 pH: <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500 <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> S.S. <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄ <input type="checkbox"/> Perchlorate by EPA 314.0 COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity Total Lead Sample # Number of Containers															
Company: <u>ATC Group Services</u>																				
Address: <u>915 Highland Bldg. Suite 250, Roseville</u>																				
Bill To: _____ Sampled By: <u>JK/AJ</u>																				
Attn: _____ Phone: <u>916-724-5247</u>																				
Sample ID	Date	Time	Mat rix	Preserv																
<u>B28-2'</u>	<u>7-7-16</u>	<u>0910</u>	<u>S</u>	<u>M</u>	<u>X</u>															
<u>B28-4'</u>		<u>0915</u>																		
<u>B28-10'</u>		<u>0925</u>																		
<u>B28-15'</u>		<u>0930</u>																		
<u>B28-20'</u>		<u>0935</u>																		
<u>B28-25'</u>		<u>0940</u>																		

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name/ #:	# of Containers:	Signature:	Time:	Signature:	Time:	Signature:	Time:	Signature:	Time:
PO#:	Temp:	Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
Credit Card Y/N:	If yes, please call with payment information ASAP	Company:		Company:		Company:		Company:	
1	10	5	4	3	2	1	Other:		
Day	Day	Day	Day	Day	Day	Day			
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF	Special Instructions / Comments: <input type="checkbox"/> Global ID	Signature:	Time:	Signature:	Time:	Signature:	Time:	Signature:	Time:
		Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
		Company:		Company:		Company:		Company:	

Report To					Analysis Request															
Attn: <u>Gabe Strala</u>					<input checked="" type="checkbox"/> Volatiles Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B HVOCs by <input type="checkbox"/> EPA 8260B <input type="checkbox"/> EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Organics: <input type="checkbox"/> OCA, <input type="checkbox"/> EOB, <input type="checkbox"/> Ethanol TPH: EPA 8015B <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel Motor Oil <input type="checkbox"/> Other Semi/Volatiles Organics GC/MS <input type="checkbox"/> EPA 8270C PNAPAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM Oil and Grease (EPA 1654/9071) <input type="checkbox"/> Petroleum <input type="checkbox"/> Total Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> PSS <input type="checkbox"/> EPA 9092 CAM17 Metals (EPA 60107/4707/471) Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS): <input type="checkbox"/> WET (STL) <input type="checkbox"/> TCLP <input type="checkbox"/> WET (DI) <input type="checkbox"/> EPA 7196 Hex Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199 pH: <input type="checkbox"/> 9040 <input type="checkbox"/> SMD500 <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄ <input type="checkbox"/> Perchlorate by EPA 314.0 COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity Total Lead Sample # Number of Containers															
Company: <u>ATC Group Services</u>																				
Address: <u>915 Highland Blvd Dr, Suite 250, Roseville</u>																				
Email:																				
Bill To:																				
Sampled By: <u>JK/MS</u>																				
Attn:																				
Phone: <u>916-724-5277</u>																				
Sample ID	Date	Time	Mat	Preserv																
B29-2'	7-7-16	1040	S	No	X															
B29-9'		1045																		
B29-10'		1050																		
B29-15'		1055																		
B29-20'		1100																		
B29-25'		1105																		

Project Info		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:			
Project Name/ #:	# of Containers:	Signature	Time	Signature	Time	Signature	Time	Signature	Time		
	Head Space:	<u>Jim Kundat</u>	<u>7-7-16</u>	<u>Mike Morehead</u>	<u>15:35</u>	<u>Mike Morehead</u>	<u>7/7/16</u>				
PO#:	Temp:	Printed Name	Date	Printed Name	Date	Printed Name	Date	Printed Name	Date		
		<u>ATC</u>		<u>SGS Accutest</u>							
Credit Card Y/N:	If yes, please call with payment information ASAP		1) Received by:		2) Received by:		3) Received by:				
<input type="checkbox"/> 10 Day	<input checked="" type="checkbox"/> 5 Day	<input type="checkbox"/> 4 Day	<input type="checkbox"/> 3 Day	<input type="checkbox"/> 2 Day	<input type="checkbox"/> 1 Day	Other:	Signature	Time	Signature	Time	
							<u>Mike Morehead</u>	<u>14:30</u>	<u>Mi Zeighani</u>	<u>15:35</u>	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF		Special Instructions / Comments: <input type="checkbox"/> Global ID		Signature		Signature		Signature		Signature	
				<u>Mike Morehead</u>		<u>Mi Zeighani</u>		<u>Mi Zeighani</u>		<u>Mi Zeighani</u>	
				<u>7/7/16</u>		<u>7/7/16</u>					
				Printed Name		Printed Name		Printed Name		Printed Name	
				<u>SGS Accutest</u>		<u>SGS Accutest</u>					
				Date		Date		Date		Date	
				Company		Company		Company		Company	
				<u>SGS Accutest</u>		<u>SGS Accutest</u>					

SGS Accutest Sample Receipt Summary

Job Number: C46435

Client: ATC GROUP SERVICES LLC

Project: 915 HIGHLAND POINTE DR. SUITE 250 ROSEVIL

Date / Time Received: 7/7/2016 3:35:00 PM

Delivery Method: Accutest Courier

Airbill #s: _____

Cooler Temps (Initial/Adjusted): #1: (3.4/4.4): _____

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Therm ID: | IR3; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

C46435: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-MB	L49949.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-MB	L49949.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	62.1	100	ug/kg	J

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-MB	L49949.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	89% 72-140%
2037-26-5	Toluene-D8	95% 87-113%
460-00-4	4-Bromofluorobenzene	90% 81-115%

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1499-MB	L49974.D	1	07/12/16	JT	n/a	n/a	VL1499

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-1, C46435-2, C46435-4, C46435-7, C46435-11, C46435-12, C46435-18, C46435-1R, C46435-2R, C46435-4R, C46435-7R, C46435-11R, C46435-12R, C46435-18R

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1499-MB	L49974.D	1	07/12/16	JT	n/a	n/a	VL1499

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-1, C46435-2, C46435-4, C46435-7, C46435-11, C46435-12, C46435-18, C46435-1R, C46435-2R, C46435-4R, C46435-7R, C46435-11R, C46435-12R, C46435-18R

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	58.9	100	ug/kg	J

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1499-MB	L49974.D	1	07/12/16	JT	n/a	n/a	VL1499

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-1, C46435-2, C46435-4, C46435-7, C46435-11, C46435-12, C46435-18, C46435-1R, C46435-2R, C46435-4R, C46435-7R, C46435-11R, C46435-12R, C46435-18R

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	93% 72-140%
2037-26-5	Toluene-D8	98% 87-113%
460-00-4	4-Bromofluorobenzene	91% 81-115%

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	96% 72-140%
2037-26-5	Toluene-D8	93% 87-113%
460-00-4	4-Bromofluorobenzene	101% 81-115%

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 72-140%
2037-26-5	Toluene-D8	98% 87-113%
460-00-4	4-Bromofluorobenzene	103% 81-115%

5.1.4
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-BS	L49946.D	1	07/11/16	JT	n/a	n/a	VL1498
VL1498-BSD	L49947.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	135	84	138	86	2	47-163/30
71-43-2	Benzene	40	31.8	80	32.0	80	1	72-122/18
108-86-1	Bromobenzene	40	37.3	93	37.5	94	1	68-122/19
74-97-5	Bromochloromethane	40	33.1	83	32.7	82	1	71-129/18
75-27-4	Bromodichloromethane	40	32.4	81	32.1	80	1	68-122/18
75-25-2	Bromoform	40	39.7	99	39.1	98	2	69-126/18
104-51-8	n-Butylbenzene	40	35.8	90	36.5	91	2	66-121/20
135-98-8	sec-Butylbenzene	40	35.8	90	36.7	92	2	69-118/20
98-06-6	tert-Butylbenzene	40	35.3	88	36.8	92	4	69-117/20
108-90-7	Chlorobenzene	40	35.3	88	35.3	88	0	68-117/17
75-00-3	Chloroethane	40	39.4	99	38.0	95	4	66-134/18
67-66-3	Chloroform	40	30.7	77	30.4	76	1	68-124/18
95-49-8	o-Chlorotoluene	40	33.2	83	33.9	85	2	65-120/22
106-43-4	p-Chlorotoluene	40	32.6	82	33.4	84	2	64-123/24
56-23-5	Carbon tetrachloride	40	32.2	81	32.7	82	2	68-130/20
75-34-3	1,1-Dichloroethane	40	29.4	74	29.5	74	0	69-122/19
75-35-4	1,1-Dichloroethylene	40	28.0	70	27.5	69	2	69-120/20
563-58-6	1,1-Dichloropropene	40	30.1	75	29.9	75	1	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	34.0	85	33.3	83	2	64-132/25
106-93-4	1,2-Dibromoethane	40	35.9	90	34.9	87	3	70-122/17
107-06-2	1,2-Dichloroethane	40	30.5	76	30.1	75	1	69-125/18
78-87-5	1,2-Dichloropropane	40	32.7	82	32.7	82	0	71-122/18
142-28-9	1,3-Dichloropropane	40	35.7	89	35.0	88	2	74-123/17
108-20-3	Di-Isopropyl ether	40	29.4	74	29.0	73	1	69-122/19
594-20-7	2,2-Dichloropropane	40	30.5	76	29.7	74	3	63-132/24
124-48-1	Dibromochloromethane	40	35.9	90	34.7	87	3	68-121/16
75-71-8	Dichlorodifluoromethane	40	32.4	81	31.8	80	2	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	34.2	86	32.9	82	4	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	34.5	86	33.9	85	2	71-130/18
541-73-1	m-Dichlorobenzene	40	36.6	92	37.0	93	1	67-119/18
95-50-1	o-Dichlorobenzene	40	36.7	92	37.2	93	1	68-119/17
106-46-7	p-Dichlorobenzene	40	36.8	92	36.8	92	0	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	28.2	71	28.1	70	0	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	33.5	84	32.2	81	4	70-118/17
100-41-4	Ethylbenzene	40	34.8	87	34.9	87	0	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	30.4	76	29.8	75	2	69-125/19

* = Outside of Control Limits.

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 5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-BS	L49946.D	1	07/11/16	JT	n/a	n/a	VL1498
VL1498-BSD	L49947.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	153	96	142	89	7	53-153/27
87-68-3	Hexachlorobutadiene	40	37.5	94	38.5	96	3	65-125/22
98-82-8	Isopropylbenzene	40	35.4	89	35.8	90	1	70-119/19
99-87-6	p-Isopropyltoluene	40	36.5	91	37.4	94	2	68-120/20
108-10-1	4-Methyl-2-pentanone	160	161	101	152	95	6	60-145/26
74-83-9	Methyl bromide	40	38.6	97	38.1	95	1	66-130/18
74-87-3	Methyl chloride	40	34.1	85	33.7	84	1	50-140/25
74-95-3	Methylene bromide	40	33.8	85	33.2	83	2	72-127/17
75-09-2	Methylene chloride	40	29.8	75	28.8	72	3	69-121/18
78-93-3	Methyl ethyl ketone	160	143	89	137	86	4	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	29.4	74	28.5	71	3	68-121/19
91-20-3	Naphthalene	40	36.8	92	36.5	91	1	68-129/22
103-65-1	n-Propylbenzene	40	34.4	86	35.2	88	2	67-116/20
100-42-5	Styrene	40	36.1	90	35.7	89	1	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	32.6	82	31.6	79	3	70-129/20
75-65-0	Tert Butyl Alcohol	200	153	77	159	80	4	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	36.2	91	36.3	91	0	70-123/18
71-55-6	1,1,1-Trichloroethane	40	31.3	78	31.2	78	0	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	37.4	94	36.5	91	2	69-126/18
79-00-5	1,1,2-Trichloroethane	40	35.7	89	34.7	87	3	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	36.0	90	36.5	91	1	65-125/23
96-18-4	1,2,3-Trichloropropane	40	38.2	96	37.4	94	2	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	37.1	93	36.4	91	2	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	34.8	87	35.4	89	2	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	35.3	88	35.8	90	1	68-120/20
127-18-4	Tetrachloroethylene	40	39.8	100	44.4	111	11	66-125/18
108-88-3	Toluene	40	34.0	85	34.1	85	0	72-116/18
79-01-6	Trichloroethylene	40	33.8	85	33.7	84	0	70-126/18
75-69-4	Trichlorofluoromethane	40	37.2	93	36.2	91	3	70-138/19
75-01-4	Vinyl chloride	40	38.1	95	37.4	94	2	55-146/22
1330-20-7	Xylene (total)	120	105	88	106	88	1	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	93%	92%	72-140%

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-BS	L49946.D	1	07/11/16	JT	n/a	n/a	VL1498
VL1498-BSD	L49947.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	97%	97%	87-113%
460-00-4	4-Bromofluorobenzene	92%	92%	81-115%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1499-BS	L49971.D	1	07/12/16	JT	n/a	n/a	VL1499
VL1499-BSD	L49972.D	1	07/12/16	JT	n/a	n/a	VL1499

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-1, C46435-2, C46435-4, C46435-7, C46435-11, C46435-12, C46435-18, C46435-1R, C46435-2R, C46435-4R, C46435-7R, C46435-11R, C46435-12R, C46435-18R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	222	139	239	149	7	47-163/30
71-43-2	Benzene	40	43.0	108	43.0	108	0	72-122/18
108-86-1	Bromobenzene	40	46.2	116	46.3	116	0	68-122/19
74-97-5	Bromochloromethane	40	45.4	114	44.8	112	1	71-129/18
75-27-4	Bromodichloromethane	40	41.3	103	41.6	104	1	68-122/18
75-25-2	Bromoform	40	45.4	114	48.2	121	6	69-126/18
104-51-8	n-Butylbenzene	40	46.0	115	43.7	109	5	66-121/20
135-98-8	sec-Butylbenzene	40	45.7	114	43.5	109	5	69-118/20
98-06-6	tert-Butylbenzene	40	45.1	113	43.9	110	3	69-117/20
108-90-7	Chlorobenzene	40	45.1	113	43.9	110	3	68-117/17
75-00-3	Chloroethane	40	41.7	104	39.2	98	6	66-134/18
67-66-3	Chloroform	40	41.0	103	39.6	99	3	68-124/18
95-49-8	o-Chlorotoluene	40	44.6	112	43.6	109	2	65-120/22
106-43-4	p-Chlorotoluene	40	42.2	106	41.5	104	2	64-123/24
56-23-5	Carbon tetrachloride	40	45.9	115	43.7	109	5	68-130/20
75-34-3	1,1-Dichloroethane	40	41.7	104	40.0	100	4	69-122/19
75-35-4	1,1-Dichloroethylene	40	48.2	121* a	46.2	116	4	69-120/20
563-58-6	1,1-Dichloropropene	40	44.2	111	41.9	105	5	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	39.5	99	44.6	112	12	64-132/25
106-93-4	1,2-Dibromoethane	40	45.3	113	47.1	118	4	70-122/17
107-06-2	1,2-Dichloroethane	40	41.0	103	42.0	105	2	69-125/18
78-87-5	1,2-Dichloropropane	40	42.3	106	42.9	107	1	71-122/18
142-28-9	1,3-Dichloropropane	40	44.4	111	45.4	114	2	74-123/17
108-20-3	Di-Isopropyl ether	40	35.3	88	34.6	87	2	69-122/19
594-20-7	2,2-Dichloropropane	40	42.5	106	38.9	97	9	63-132/24
124-48-1	Dibromochloromethane	40	44.0	110	44.0	110	0	68-121/16
75-71-8	Dichlorodifluoromethane	40	37.2	93	33.3	83	11	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	45.7	114	44.1	110	4	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	44.5	111	44.9	112	1	71-130/18
541-73-1	m-Dichlorobenzene	40	45.7	114	45.1	113	1	67-119/18
95-50-1	o-Dichlorobenzene	40	44.0	110	43.8	110	0	68-119/17
106-46-7	p-Dichlorobenzene	40	45.0	113	44.9	112	0	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	44.3	111	42.8	107	3	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	41.9	105	42.3	106	1	70-118/17
100-41-4	Ethylbenzene	40	45.9	115	43.7	109	5	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	36.6	92	36.1	90	1	69-125/19

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1499-BS	L49971.D	1	07/12/16	JT	n/a	n/a	VL1499
VL1499-BSD	L49972.D	1	07/12/16	JT	n/a	n/a	VL1499

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-1, C46435-2, C46435-4, C46435-7, C46435-11, C46435-12, C46435-18, C46435-1R, C46435-2R, C46435-4R, C46435-7R, C46435-11R, C46435-12R, C46435-18R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	184	115	204	128	10	53-153/27
87-68-3	Hexachlorobutadiene	40	47.6	119	44.6	112	7	65-125/22
98-82-8	Isopropylbenzene	40	46.2	116	43.8	110	5	70-119/19
99-87-6	p-Isopropyltoluene	40	46.9	117	44.4	111	5	68-120/20
108-10-1	4-Methyl-2-pentanone	160	181	113	206	129	13	60-145/26
74-83-9	Methyl bromide	40	41.7	104	39.2	98	6	66-130/18
74-87-3	Methyl chloride	40	37.9	95	35.0	88	8	50-140/25
74-95-3	Methylene bromide	40	44.1	110	46.3	116	5	72-127/17
75-09-2	Methylene chloride	40	41.5	104	41.4	104	0	69-121/18
78-93-3	Methyl ethyl ketone	160	190	119	217	136	13	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	34.7	87	36.0	90	4	68-121/19
91-20-3	Naphthalene	40	42.4	106	45.2	113	6	68-129/22
103-65-1	n-Propylbenzene	40	44.6	112	42.7	107	4	67-116/20
100-42-5	Styrene	40	45.3	113	44.3	111	2	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	37.6	94	38.2	96	2	70-129/20
75-65-0	Tert Butyl Alcohol	200	182	91	202	101	10	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	44.7	112	44.2	111	1	70-123/18
71-55-6	1,1,1-Trichloroethane	40	44.4	111	41.2	103	7	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	41.5	104	44.5	111	7	69-126/18
79-00-5	1,1,2-Trichloroethane	40	42.3	106	44.4	111	5	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	44.5	111	44.5	111	0	65-125/23
96-18-4	1,2,3-Trichloropropane	40	44.4	111	46.1	115	4	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	45.0	113	44.1	110	2	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	44.7	112	43.5	109	3	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	46.2	116	44.5	111	4	68-120/20
127-18-4	Tetrachloroethylene	40	54.6	137* a	54.6	137* a	0	66-125/18
108-88-3	Toluene	40	45.3	113	43.5	109	4	72-116/18
79-01-6	Trichloroethylene	40	46.5	116	46.0	115	1	70-126/18
75-69-4	Trichlorofluoromethane	40	40.0	100	37.0	93	8	70-138/19
75-01-4	Vinyl chloride	40	41.2	103	38.4	96	7	55-146/22
1330-20-7	Xylene (total)	120	138	115	133	111	4	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	95%	93%	72-140%

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1499-BS	L49971.D	1	07/12/16	JT	n/a	n/a	VL1499
VL1499-BSD	L49972.D	1	07/12/16	JT	n/a	n/a	VL1499

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-1, C46435-2, C46435-4, C46435-7, C46435-11, C46435-12, C46435-18, C46435-1R, C46435-2R, C46435-4R, C46435-7R, C46435-11R, C46435-12R, C46435-18R

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	97%	96%	87-113%
460-00-4	4-Bromofluorobenzene	95%	94%	81-115%

(a) Outside laboratory control limits (high bias); not detected in associated samples.

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	182	114	183	114	1	47-163/30
71-43-2	Benzene	40	38.9	97	34.9	87	11	72-122/18
108-86-1	Bromobenzene	40	37.4	94	33.7	84	10	68-122/19
74-97-5	Bromochloromethane	40	39.9	100	37.1	93	7	71-129/18
75-27-4	Bromodichloromethane	40	37.7	94	34.3	86	9	68-122/18
75-25-2	Bromoform	40	40.3	101	37.3	93	8	69-126/18
104-51-8	n-Butylbenzene	40	34.3	86	32.9	82	4	66-121/20
135-98-8	sec-Butylbenzene	40	35.0	88	33.0	83	6	69-118/20
98-06-6	tert-Butylbenzene	40	36.5	91	34.2	86	7	69-117/20
108-90-7	Chlorobenzene	40	38.5	96	35.0	88	10	68-117/17
75-00-3	Chloroethane	40	40.7	102	36.4	91	11	66-134/18
67-66-3	Chloroform	40	36.7	92	33.6	84	9	68-124/18
95-49-8	o-Chlorotoluene	40	34.2	86	30.6	77	11	65-120/22
106-43-4	p-Chlorotoluene	40	35.2	88	32.7	82	7	64-123/24
56-23-5	Carbon tetrachloride	40	39.4	99	35.9	90	9	68-130/20
75-34-3	1,1-Dichloroethane	40	36.7	92	33.5	84	9	69-122/19
75-35-4	1,1-Dichloroethylene	40	36.8	92	33.5	84	9	69-120/20
563-58-6	1,1-Dichloropropene	40	37.5	94	33.4	84	12	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	39.9	100	32.9	82	19	64-132/25
106-93-4	1,2-Dibromoethane	40	38.0	95	34.2	86	11	70-122/17
107-06-2	1,2-Dichloroethane	40	37.9	95	34.3	86	10	69-125/18
78-87-5	1,2-Dichloropropane	40	38.8	97	34.8	87	11	71-122/18
142-28-9	1,3-Dichloropropane	40	38.4	96	34.0	85	12	74-123/17
108-20-3	Di-Isopropyl ether	40	35.9	90	32.9	82	9	69-122/19
594-20-7	2,2-Dichloropropane	40	36.1	90	33.7	84	7	63-132/24
124-48-1	Dibromochloromethane	40	38.5	96	34.4	86	11	68-121/16
75-71-8	Dichlorodifluoromethane	40	29.3	73	25.9	65	12	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	40.4	101	36.7	92	10	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	42.0	105	37.9	95	10	71-130/18
541-73-1	m-Dichlorobenzene	40	36.6	92	33.8	85	8	67-119/18
95-50-1	o-Dichlorobenzene	40	37.5	94	35.1	88	7	68-119/17
106-46-7	p-Dichlorobenzene	40	36.6	92	33.9	85	8	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	35.0	88	32.3	81	8	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	37.1	93	32.9	82	12	70-118/17
100-41-4	Ethylbenzene	40	37.3	93	34.2	86	9	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	38.2	96	34.7	87	10	69-125/19

* = Outside of Control Limits.

5.2.3
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	183	114	151	94	19	53-153/27
87-68-3	Hexachlorobutadiene	40	34.6	87	32.7	82	6	65-125/22
98-82-8	Isopropylbenzene	40	37.4	94	35.8	90	4	70-119/19
99-87-6	p-Isopropyltoluene	40	36.1	90	34.0	85	6	68-120/20
108-10-1	4-Methyl-2-pentanone	160	161	101	138	86	15	60-145/26
74-83-9	Methyl bromide	40	39.5	99	35.0	88	12	66-130/18
74-87-3	Methyl chloride	40	29.4	74	25.6	64	14	50-140/25
74-95-3	Methylene bromide	40	39.8	100	35.9	90	10	72-127/17
75-09-2	Methylene chloride	40	38.2	96	34.8	87	9	69-121/18
78-93-3	Methyl ethyl ketone	160	163	102	160	100	2	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	37.8	95	35.3	88	7	68-121/19
91-20-3	Naphthalene	40	38.4	96	34.5	86	11	68-129/22
103-65-1	n-Propylbenzene	40	34.4	86	31.7	79	8	67-116/20
100-42-5	Styrene	40	38.8	97	36.0	90	7	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	40.3	101	37.6	94	7	70-129/20
75-65-0	Tert Butyl Alcohol	200	194	97	213	107	9	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	39.0	98	36.0	90	8	70-123/18
71-55-6	1,1,1-Trichloroethane	40	38.3	96	35.1	88	9	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	37.6	94	33.2	83	12	69-126/18
79-00-5	1,1,2-Trichloroethane	40	37.3	93	32.9	82	13	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	35.0	88	33.1	83	6	65-125/23
96-18-4	1,2,3-Trichloropropane	40	40.4	101	37.1	93	9	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	36.4	91	34.6	87	5	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	35.2	88	32.9	82	7	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	35.9	90	33.1	83	8	68-120/20
127-18-4	Tetrachloroethylene	40	39.3	98	35.9	90	9	66-125/18
108-88-3	Toluene	40	37.1	93	33.5	84	10	72-116/18
79-01-6	Trichloroethylene	40	41.4	104	37.8	95	9	70-126/18
75-69-4	Trichlorofluoromethane	40	41.0	103	36.2	91	12	70-138/19
75-01-4	Vinyl chloride	40	33.8	85	29.8	75	13	55-146/22
1330-20-7	Xylene (total)	120	113	94	105	88	7	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	93%	96%	72-140%

* = Outside of Control Limits.

5.2.3
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	93%	92%	87-113%
460-00-4	4-Bromofluorobenzene	96%	102%	81-115%

* = Outside of Control Limits.

5.2.3
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	184	115	196	123	6	47-163/30
71-43-2	Benzene	40	39.9	100	39.3	98	2	72-122/18
108-86-1	Bromobenzene	40	39.6	99	38.9	97	2	68-122/19
74-97-5	Bromochloromethane	40	41.5	104	40.6	102	2	71-129/18
75-27-4	Bromodichloromethane	40	39.2	98	38.2	96	3	68-122/18
75-25-2	Bromoform	40	39.9	100	39.3	98	2	69-126/18
104-51-8	n-Butylbenzene	40	39.4	99	38.0	95	4	66-121/20
135-98-8	sec-Butylbenzene	40	39.4	99	38.2	96	3	69-118/20
98-06-6	tert-Butylbenzene	40	40.3	101	38.9	97	4	69-117/20
108-90-7	Chlorobenzene	40	38.4	96	38.4	96	0	68-117/17
75-00-3	Chloroethane	40	44.0	110	41.9	105	5	66-134/18
67-66-3	Chloroform	40	40.3	101	39.2	98	3	68-124/18
95-49-8	o-Chlorotoluene	40	40.5	101	39.8	100	2	65-120/22
106-43-4	p-Chlorotoluene	40	37.5	94	35.9	90	4	64-123/24
56-23-5	Carbon tetrachloride	40	40.4	101	39.0	98	4	68-130/20
75-34-3	1,1-Dichloroethane	40	40.8	102	39.4	99	3	69-122/19
75-35-4	1,1-Dichloroethylene	40	39.1	98	38.0	95	3	69-120/20
563-58-6	1,1-Dichloropropene	40	39.0	98	37.7	94	3	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	40.6	102	39.0	98	4	64-132/25
106-93-4	1,2-Dibromoethane	40	38.8	97	39.0	98	1	70-122/17
107-06-2	1,2-Dichloroethane	40	39.9	100	38.8	97	3	69-125/18
78-87-5	1,2-Dichloropropane	40	40.4	101	39.4	99	3	71-122/18
142-28-9	1,3-Dichloropropane	40	40.1	100	40.0	100	0	74-123/17
108-20-3	Di-Isopropyl ether	40	40.2	101	39.4	99	2	69-122/19
594-20-7	2,2-Dichloropropane	40	41.9	105	38.8	97	8	63-132/24
124-48-1	Dibromochloromethane	40	38.9	97	38.6	97	1	68-121/16
75-71-8	Dichlorodifluoromethane	40	31.0	78	28.6	72	8	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	42.8	107	42.3	106	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	42.1	105	41.6	104	1	71-130/18
541-73-1	m-Dichlorobenzene	40	39.2	98	38.5	96	2	67-119/18
95-50-1	o-Dichlorobenzene	40	39.4	99	38.8	97	2	68-119/17
106-46-7	p-Dichlorobenzene	40	39.6	99	38.6	97	3	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	37.9	95	36.9	92	3	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	38.2	96	37.9	95	1	70-118/17
100-41-4	Ethylbenzene	40	39.6	99	39.0	98	2	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	41.3	103	39.9	100	3	69-125/19

* = Outside of Control Limits.

5.2.4
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	193	121	180	113	7	53-153/27
87-68-3	Hexachlorobutadiene	40	38.6	97	36.0	90	7	65-125/22
98-82-8	Isopropylbenzene	40	39.6	99	38.1	95	4	70-119/19
99-87-6	p-Isopropyltoluene	40	40.2	101	38.6	97	4	68-120/20
108-10-1	4-Methyl-2-pentanone	160	160	100	156	98	3	60-145/26
74-83-9	Methyl bromide	40	42.0	105	40.3	101	4	66-130/18
74-87-3	Methyl chloride	40	36.9	92	33.8	85	9	50-140/25
74-95-3	Methylene bromide	40	39.6	99	39.5	99	0	72-127/17
75-09-2	Methylene chloride	40	39.0	98	38.0	95	3	69-121/18
78-93-3	Methyl ethyl ketone	160	196	123	191	119	3	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	39.7	99	39.1	98	2	68-121/19
91-20-3	Naphthalene	40	41.0	103	39.7	99	3	68-129/22
103-65-1	n-Propylbenzene	40	38.6	97	37.3	93	3	67-116/20
100-42-5	Styrene	40	40.3	101	39.6	99	2	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	41.7	104	41.1	103	1	70-129/20
75-65-0	Tert Butyl Alcohol	200	273	137	207	104	28	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	39.1	98	39.1	98	0	70-123/18
71-55-6	1,1,1-Trichloroethane	40	42.5	106	40.4	101	5	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	39.8	100	39.4	99	1	69-126/18
79-00-5	1,1,2-Trichloroethane	40	38.5	96	38.2	96	1	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	39.1	98	37.5	94	4	65-125/23
96-18-4	1,2,3-Trichloropropane	40	40.3	101	39.3	98	3	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	39.5	99	37.6	94	5	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	39.1	98	37.9	95	3	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	39.6	99	38.8	97	2	68-120/20
127-18-4	Tetrachloroethylene	40	38.6	97	38.1	95	1	66-125/18
108-88-3	Toluene	40	38.7	97	38.8	97	0	72-116/18
79-01-6	Trichloroethylene	40	40.5	101	39.3	98	3	70-126/18
75-69-4	Trichlorofluoromethane	40	45.1	113	41.9	105	7	70-138/19
75-01-4	Vinyl chloride	40	44.8	112	41.8	105	7	55-146/22
1330-20-7	Xylene (total)	120	118	98	116	97	2	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	98%	72-140%

* = Outside of Control Limits.

5.2.4
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	97%	97%	87-113%
460-00-4	4-Bromofluorobenzene	102%	101%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1498-LCS	L49948.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	283	113	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	72-140%
2037-26-5	Toluene-D8	98%	87-113%
460-00-4	4-Bromofluorobenzene	90%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1499-LCS	L49973.D	1	07/12/16	JT	n/a	n/a	VL1499

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-1, C46435-2, C46435-4, C46435-7, C46435-11, C46435-12, C46435-18, C46435-1R, C46435-2R, C46435-4R, C46435-7R, C46435-11R, C46435-12R, C46435-18R

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	264	106	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	72-140%
2037-26-5	Toluene-D8	97%	87-113%
460-00-4	4-Bromofluorobenzene	92%	81-115%

* = Outside of Control Limits.

5.3.2
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Laboratory Control Sample Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-LCS	M61833.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	210	84	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	72-140%
2037-26-5	Toluene-D8	95%	87-113%
460-00-4	4-Bromofluorobenzene	101%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-LCS	M61912.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	296	118	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	72-140%
2037-26-5	Toluene-D8	100%	87-113%
460-00-4	4-Bromofluorobenzene	100%	81-115%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-5MS	L49964.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5MSD	L49965.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5	L49963.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Compound	C46413-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	30900	23900	77	30900	23700	77	1	47-163/30
71-43-2	Benzene	ND	7740	6090	79	7740	5110	66* a	18	72-122/18
108-86-1	Bromobenzene	ND	7740	7010	91	7740	4650	60* a	40* b	68-122/19
74-97-5	Bromochloromethane	ND	7740	6600	85	7740	5660	73	15	71-129/18
75-27-4	Bromodichloromethane	ND	7740	6940	90	7740	5670	73	20* a	68-122/18
75-25-2	Bromoform	ND	7740	7910	102	7740	6450	83	20* b	69-126/18
104-51-8	n-Butylbenzene	ND	7740	6800	88	7740	2340	30* a	98* b	66-121/20
135-98-8	sec-Butylbenzene	ND	7740	6860	89	7740	2870	37* a	82* b	69-118/20
98-06-6	tert-Butylbenzene	ND	7740	6630	86	7740	3200	41* a	70* a	69-117/20
108-90-7	Chlorobenzene	ND	7740	6710	87	7740	4530	59* a	39* b	68-117/17
75-00-3	Chloroethane	ND	7740	7610	98	7740	7510	97	1	66-134/18
67-66-3	Chloroform	ND	7740	6660	86	7740	5510	71	19* b	68-124/18
95-49-8	o-Chlorotoluene	ND	7740	6590	85	7740	3430	44* a	63* b	65-120/22
106-43-4	p-Chlorotoluene	ND	7740	6800	88	7740	3240	42* a	71* b	64-123/24
56-23-5	Carbon tetrachloride	ND	7740	7170	93	7740	5620	73	24* b	68-130/20
75-34-3	1,1-Dichloroethane	ND	7740	6140	79	7740	5300	69	15	69-122/19
75-35-4	1,1-Dichloroethylene	ND	7740	5210	67* a	7740	4710	61* a	10	69-120/20
563-58-6	1,1-Dichloropropene	ND	7740	6180	80	7740	4760	62* a	26* b	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	ND	7740	7070	91	7740	6310	82	11	64-132/25
106-93-4	1,2-Dibromoethane	ND	7740	6930	90	7740	5890	76	16	70-122/17
107-06-2	1,2-Dichloroethane	ND	7740	7220	93	7740	6080	79	17	69-125/18
78-87-5	1,2-Dichloropropane	ND	7740	6460	83	7740	5580	72	15	71-122/18
142-28-9	1,3-Dichloropropane	ND	7740	6940	90	7740	5920	77	16	74-123/17
108-20-3	Di-Isopropyl ether	ND	7740	5990	77	7740	5350	69	11	69-122/19
594-20-7	2,2-Dichloropropane	ND	7740	6400	83	7740	5510	71	15	63-132/24
124-48-1	Dibromochloromethane	ND	7740	7340	95	7740	5960	77	21* b	68-121/16
75-71-8	Dichlorodifluoromethane	ND	7740	7850	101	7740	7310	94	7	53-119/22
156-59-2	cis-1,2-Dichloroethylene	ND	7740	6620	86	7740	5610	73	17	72-130/18
10061-01-5	cis-1,3-Dichloropropene	ND	7740	6850	89	7740	5490	71	22* b	71-130/18
541-73-1	m-Dichlorobenzene	ND	7740	6950	90	7740	3800	49* a	59* b	67-119/18
95-50-1	o-Dichlorobenzene	ND	7740	7050	91	7740	4210	54* a	50* b	68-119/17
106-46-7	p-Dichlorobenzene	ND	7740	6940	90	7740	3720	48* a	60* b	67-119/17
156-60-5	trans-1,2-Dichloroethylene	ND	7740	5480	71	7740	4590	59* a	18	66-113/19
10061-02-6	trans-1,3-Dichloropropene	ND	7740	6620	86	7740	5340	69* a	21* b	70-118/17
100-41-4	Ethylbenzene	ND	7740	6760	87	7740	3970	51* a	52* b	71-118/18
637-92-3	Ethyl tert-Butyl Ether	ND	7740	6390	83	7740	5710	74	11	69-125/19

* = Outside of Control Limits.

5.4.1
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-5MS	L49964.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5MSD	L49965.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5	L49963.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Compound	C46413-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND	30900	28000	90	30900	26800	87	4	53-153/27
87-68-3	Hexachlorobutadiene	ND	7740	7340	95	7740	2200	28* a	108* b	65-125/22
98-82-8	Isopropylbenzene	ND	7740	7020	91	7740	3600	47* a	64* b	70-119/19
99-87-6	p-Isopropyltoluene	ND	7740	6910	89	7740	2770	36* a	86* b	68-120/20
108-10-1	4-Methyl-2-pentanone	ND	30900	28900	93	30900	27900	90	4	60-145/26
74-83-9	Methyl bromide	ND	7740	7780	101	7740	7690	99	1	66-130/18
74-87-3	Methyl chloride	ND	7740	7550	98	7740	7200	93	5	50-140/25
74-95-3	Methylene bromide	ND	7740	7120	92	7740	5950	77	18* b	72-127/17
75-09-2	Methylene chloride	ND	7740	5720	74	7740	5130	66* a	11	69-121/18
78-93-3	Methyl ethyl ketone	ND	30900	26000	84	30900	24800	80	5	59-147/30
1634-04-4	Methyl Tert Butyl Ether	12700	7740	18900	80	7740	17600	63* a	7	68-121/19
91-20-3	Naphthalene	ND	7740	7210	93	7740	5290	68	31* b	68-129/22
103-65-1	n-Propylbenzene	ND	7740	6460	83	7740	2990	39* a	73* b	67-116/20
100-42-5	Styrene	ND	7740	6900	89	7740	4200	54* a	49* b	68-120/17
994-05-8	Tert-Amyl Methyl Ether	ND	7740	6720	87	7740	5990	77	11	70-129/20
75-65-0	Tert Butyl Alcohol	20800	38700	59000	99	38700	55700	90	6	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	7740	7420	96	7740	5570	72	28* b	70-123/18
71-55-6	1,1,1-Trichloroethane	ND	7740	7010	91	7740	5590	72	23* b	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	ND	7740	7020	91	7740	6350	82	10	69-126/18
79-00-5	1,1,2-Trichloroethane	ND	7740	6820	88	7740	5940	77	14	70-120/17
87-61-6	1,2,3-Trichlorobenzene	ND	7740	7330	95	7740	4020	52* a	58* b	65-125/23
96-18-4	1,2,3-Trichloropropane	ND	7740	8020	104	7740	6840	88	16	69-128/18
120-82-1	1,2,4-Trichlorobenzene	ND	7740	6940	90	7740	3750	48* a	60* b	65-125/22
95-63-6	1,2,4-Trimethylbenzene	ND	7740	6730	87	7740	3280	42* a	69* b	67-118/19
108-67-8	1,3,5-Trimethylbenzene	ND	7740	6720	87	7740	3300	43* a	68* b	68-120/20
127-18-4	Tetrachloroethylene	ND	7740	7070	91	7740	4500	58* a	44* b	66-125/18
108-88-3	Toluene	ND	7740	6460	83	7740	4620	60* a	33* b	72-116/18
79-01-6	Trichloroethylene	ND	7740	6590	85	7740	5000	65* a	27* b	70-126/18
75-69-4	Trichlorofluoromethane	ND	7740	8490	110	7740	7740	100	9	70-138/19
75-01-4	Vinyl chloride	ND	7740	8600	111	7740	8010	104	7	55-146/22
1330-20-7	Xylene (total)	ND	23200	20300	87	23200	11800	51* a	53* b	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46413-5	Limits
1868-53-7	Dibromofluoromethane	100%	97%	98%	72-140%

* = Outside of Control Limits.

5.4.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-5MS	L49964.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5MSD	L49965.D	1	07/11/16	JT	n/a	n/a	VL1498
C46413-5	L49963.D	1	07/11/16	JT	n/a	n/a	VL1498

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-8, C46435-9, C46435-8R, C46435-9R

CAS No.	Surrogate Recoveries	MS	MSD	C46413-5	Limits
2037-26-5	Toluene-D8	94%	98%	96%	87-113%
460-00-4	4-Bromofluorobenzene	96%	97%	93%	81-115%

- (a) Outside control limits due to matrix interference.
- (b) Outside laboratory control limits.

* = Outside of Control Limits.

5.4.1
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Compound	C46485-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	40 U	160	173	108	160	175	110	1	47-163/30
71-43-2	Benzene	5.0 U	39.9	31.8	80	39.9	33.2	83	4	72-122/18
108-86-1	Bromobenzene	5.0 U	39.9	27.0	68	39.9	28.8	72	6	68-122/19
74-97-5	Bromochloromethane	5.0 U	39.9	33.3	83	39.9	31.7	79	5	71-129/18
75-27-4	Bromodichloromethane	5.0 U	39.9	26.9	67* a	39.9	27.9	70	4	68-122/18
75-25-2	Bromoform	5.0 U	39.9	27.0	68* a	39.9	28.1	70	4	69-126/18
104-51-8	n-Butylbenzene	5.0 U	39.9	24.9	62* a	39.9	25.2	63* a	1	66-121/20
135-98-8	sec-Butylbenzene	5.0 U	39.9	28.1	70	39.9	29.2	73	4	69-118/20
98-06-6	tert-Butylbenzene	5.0 U	39.9	30.5	76	39.9	31.0	78	2	69-117/20
108-90-7	Chlorobenzene	5.0 U	39.9	29.4	74	39.9	30.5	76	4	68-117/17
75-00-3	Chloroethane	5.0 U	39.9	34.2	86	39.9	34.2	86	0	66-134/18
67-66-3	Chloroform	5.0 U	39.9	28.5	71	39.9	28.8	72	1	68-124/18
95-49-8	o-Chlorotoluene	5.0 U	39.9	25.0	63* a	39.9	27.1	68	8	65-120/22
106-43-4	p-Chlorotoluene	5.0 U	39.9	25.9	65	39.9	26.1	65	1	64-123/24
56-23-5	Carbon tetrachloride	5.0 U	39.9	32.8	82	39.9	34.4	86	5	68-130/20
75-34-3	1,1-Dichloroethane	5.0 U	39.9	30.0	75	39.9	30.4	76	1	69-122/19
75-35-4	1,1-Dichloroethylene	5.0 U	39.9	33.3	83	39.9	34.2	86	3	69-120/20
563-58-6	1,1-Dichloropropene	5.0 U	39.9	32.1	80	39.9	33.2	83	3	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U	39.9	25.1	63* a	39.9	26.5	66	5	64-132/25
106-93-4	1,2-Dibromoethane	5.0 U	39.9	27.5	69* a	39.9	28.1	70	2	70-122/17
107-06-2	1,2-Dichloroethane	5.0 U	39.9	25.5	64* a	39.9	26.3	66* a	3	69-125/18
78-87-5	1,2-Dichloropropane	5.0 U	39.9	29.8	75	39.9	31.1	78	4	71-122/18
142-28-9	1,3-Dichloropropane	5.0 U	39.9	27.6	69* a	39.9	28.4	71* a	3	74-123/17
108-20-3	Di-Isopropyl ether	5.0 U	39.9	26.9	67* a	39.9	27.2	68* a	1	69-122/19
594-20-7	2,2-Dichloropropane	5.0 U	39.9	29.2	73	39.9	28.9	72	1	63-132/24
124-48-1	Dibromochloromethane	5.0 U	39.9	26.6	67* a	39.9	27.9	70	5	68-121/16
75-71-8	Dichlorodifluoromethane	5.0 U	39.9	24.7	62	39.9	24.4	61	1	53-119/22
156-59-2	cis-1,2-Dichloroethylene	5.0 U	39.9	33.1	83	39.9	33.3	83	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	5.0 U	39.9	29.0	73	39.9	30.6	77	5	71-130/18
541-73-1	m-Dichlorobenzene	5.0 U	39.9	24.3	61* a	39.9	25.2	63* a	4	67-119/18
95-50-1	o-Dichlorobenzene	5.0 U	39.9	24.6	62* a	39.9	24.8	62* a	1	68-119/17
106-46-7	p-Dichlorobenzene	5.0 U	39.9	24.1	60* a	39.9	24.7	62* a	2	67-119/17
156-60-5	trans-1,2-Dichloroethylene	5.0 U	39.9	30.7	77	39.9	31.0	78	1	66-113/19
10061-02-6	trans-1,3-Dichloropropene	5.0 U	39.9	24.4	61* a	39.9	25.2	63* a	3	70-118/17
100-41-4	Ethylbenzene	5.0 U	39.9	30.5	76	39.9	31.2	78	2	71-118/18
637-92-3	Ethyl tert-Butyl Ether	5.0 U	39.9	27.9	70	39.9	28.4	71	2	69-125/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Compound	C46485-1 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	20 U		160	124	78	160	126	79	2	53-153/27
87-68-3	Hexachlorobutadiene	5.0 U		39.9	18.4	46* a	39.9	19.3	48* a	5	65-125/22
98-82-8	Isopropylbenzene	5.0 U		39.9	32.2	81	39.9	31.2	78	3	70-119/19
99-87-6	p-Isopropyltoluene	5.0 U		39.9	28.3	71	39.9	28.6	72	1	68-120/20
108-10-1	4-Methyl-2-pentanone	20 U		160	104	65	160	111	70	7	60-145/26
74-83-9	Methyl bromide	5.0 U		39.9	31.6	79	39.9	31.5	79	0	66-130/18
74-87-3	Methyl chloride	5.0 U		39.9	22.4	56	39.9	22.4	56	0	50-140/25
74-95-3	Methylene bromide	5.0 U		39.9	28.3	71* a	39.9	29.2	73	3	72-127/17
75-09-2	Methylene chloride	20 U		39.9	32.2	81	39.9	32.5	81	1	69-121/18
78-93-3	Methyl ethyl ketone	20 U		160	122	76	160	120	75	2	59-147/30
1634-04-4	Methyl Tert Butyl Ether	5.0 U		39.9	27.5	69	39.9	26.8	67* a	3	68-121/19
91-20-3	Naphthalene	5.0 U		39.9	19.1	48* a	39.9	20.3	51* a	6	68-129/22
103-65-1	n-Propylbenzene	5.0 U		39.9	27.8	70	39.9	29.0	73	4	67-116/20
100-42-5	Styrene	5.0 U		39.9	28.6	72	39.9	28.7	72	0	68-120/17
994-05-8	Tert-Amyl Methyl Ether	5.0 U		39.9	29.7	74	39.9	29.7	74	0	70-129/20
75-65-0	Tert Butyl Alcohol	40 U		200	142	71	200	141	71	1	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		39.9	30.4	76	39.9	30.7	77	1	70-123/18
71-55-6	1,1,1-Trichloroethane	5.0 U		39.9	32.0	80	39.9	32.4	81	1	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		39.9	23.6	59* a	39.9	25.4	64* a	7	69-126/18
79-00-5	1,1,2-Trichloroethane	5.0 U		39.9	27.0	68* a	39.9	27.9	70	3	70-120/17
87-61-6	1,2,3-Trichlorobenzene	5.0 U		39.9	15.0	38* a	39.9	15.6	39* a	4	65-125/23
96-18-4	1,2,3-Trichloropropane	5.0 U		39.9	28.4	71	39.9	28.7	72	1	69-128/18
120-82-1	1,2,4-Trichlorobenzene	5.0 U		39.9	16.1	40* a	39.9	16.7	42* a	4	65-125/22
95-63-6	1,2,4-Trimethylbenzene	5.0 U		39.9	26.9	67	39.9	27.2	68	1	67-118/19
108-67-8	1,3,5-Trimethylbenzene	5.0 U		39.9	28.7	72	39.9	28.9	72	1	68-120/20
127-18-4	Tetrachloroethylene	5.0 U		39.9	53.6	134* a	39.9	55.8	140* a	4	66-125/18
108-88-3	Toluene	5.0 U		39.9	31.0	78	39.9	31.9	80	3	72-116/18
79-01-6	Trichloroethylene	5.0 U		39.9	38.2	96	39.9	39.8	100	4	70-126/18
75-69-4	Trichlorofluoromethane	5.0 U		39.9	32.9	82	39.9	33.2	83	1	70-138/19
75-01-4	Vinyl chloride	5.0 U		39.9	26.8	67	39.9	28.6	72	6	55-146/22
1330-20-7	Xylene (total)	9.9 U		120	93.2	78	120	93.8	78	1	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46485-1	Limits
1868-53-7	Dibromofluoromethane	90%	89%	100%	72-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-3, C46435-13, C46435-14, C46435-16, C46435-17, C46435-3R, C46435-13R, C46435-14R, C46435-16R, C46435-17R

CAS No.	Surrogate Recoveries	MS	MSD	C46485-1	Limits
2037-26-5	Toluene-D8	94%	94%	94%	87-113%
460-00-4	4-Bromofluorobenzene	97%	94%	101%	81-115%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.4.2
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Compound	C46446-4 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	7160	6010	84	7160	4940	69	20	47-163/30
71-43-2	Benzene	ND	1790	1760	98	1790	1740	97	1	72-122/18
108-86-1	Bromobenzene	ND	1790	1660	93	1790	1670	93	1	68-122/19
74-97-5	Bromochloromethane	ND	1790	1800	101	1790	1780	100	1	71-129/18
75-27-4	Bromodichloromethane	ND	1790	1610	90	1790	1580	88	2	68-122/18
75-25-2	Bromoform	ND	1790	1720	96	1790	1720	96	0	69-126/18
104-51-8	n-Butylbenzene	ND	1790	1570	88	1790	1600	89	2	66-121/20
135-98-8	sec-Butylbenzene	ND	1790	1650	92	1790	1680	94	2	69-118/20
98-06-6	tert-Butylbenzene	ND	1790	1670	93	1790	1690	94	1	69-117/20
108-90-7	Chlorobenzene	ND	1790	1690	94	1790	1700	95	1	68-117/17
75-00-3	Chloroethane	ND	1790	1810	101	1790	1810	101	0	66-134/18
67-66-3	Chloroform	ND	1790	1580	88	1790	1600	89	1	68-124/18
95-49-8	o-Chlorotoluene	ND	1790	1700	95	1790	1650	92	3	65-120/22
106-43-4	p-Chlorotoluene	ND	1790	1380	77	1790	1500	84	8	64-123/24
56-23-5	Carbon tetrachloride	ND	1790	1600	89	1790	1580	88	1	68-130/20
75-34-3	1,1-Dichloroethane	ND	1790	1640	92	1790	1640	92	0	69-122/19
75-35-4	1,1-Dichloroethylene	ND	1790	1650	92	1790	1640	92	1	69-120/20
563-58-6	1,1-Dichloropropene	ND	1790	1630	91	1790	1600	89	2	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	ND	1790	1630	91	1790	1620	91	1	64-132/25
106-93-4	1,2-Dibromoethane	ND	1790	1730	97	1790	1700	95	2	70-122/17
107-06-2	1,2-Dichloroethane	ND	1790	1600	89	1790	1600	89	0	69-125/18
78-87-5	1,2-Dichloropropane	ND	1790	1770	99	1790	1740	97	2	71-122/18
142-28-9	1,3-Dichloropropane	ND	1790	1740	97	1790	1700	95	2	74-123/17
108-20-3	Di-Isopropyl ether	ND	1790	1650	92	1790	1660	93	1	69-122/19
594-20-7	2,2-Dichloropropane	ND	1790	1330	74	1790	1370	77	3	63-132/24
124-48-1	Dibromochloromethane	ND	1790	1640	92	1790	1620	91	1	68-121/16
75-71-8	Dichlorodifluoromethane	ND	1790	1120	63	1790	1100	61	2	53-119/22
156-59-2	cis-1,2-Dichloroethylene	ND	1790	1800	101	1790	1810	101	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	ND	1790	1760	98	1790	1740	97	1	71-130/18
541-73-1	m-Dichlorobenzene	ND	1790	1630	91	1790	1650	92	1	67-119/18
95-50-1	o-Dichlorobenzene	ND	1790	1720	96	1790	1720	96	0	68-119/17
106-46-7	p-Dichlorobenzene	ND	1790	1630	91	1790	1650	92	1	67-119/17
156-60-5	trans-1,2-Dichloroethylene	ND	1790	1570	88	1790	1580	88	1	66-113/19
10061-02-6	trans-1,3-Dichloropropene	ND	1790	1520	85	1790	1520	85	0	70-118/17
100-41-4	Ethylbenzene	ND	1790	1690	94	1790	1700	95	1	71-118/18
637-92-3	Ethyl tert-Butyl Ether	ND	1790	1670	93	1790	1680	94	1	69-125/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Compound	C46446-4 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND	7160	6990	98	7160	6860	96	2	53-153/27
87-68-3	Hexachlorobutadiene	ND	1790	1690	94	1790	1710	96	1	65-125/22
98-82-8	Isopropylbenzene	ND	1790	1720	96	1790	1720	96	0	70-119/19
99-87-6	p-Isopropyltoluene	ND	1790	1660	93	1790	1670	93	1	68-120/20
108-10-1	4-Methyl-2-pentanone	ND	7160	6900	96	7160	6820	95	1	60-145/26
74-83-9	Methyl bromide	ND	1790	1620	91	1790	1580	88	3	66-130/18
74-87-3	Methyl chloride	ND	1790	1360	76	1790	1380	77	1	50-140/25
74-95-3	Methylene bromide	ND	1790	1750	98	1790	1690	94	3	72-127/17
75-09-2	Methylene chloride	ND	1790	1640	92	1790	1620	91	1	69-121/18
78-93-3	Methyl ethyl ketone	ND	7160	6170	86	7160	5470	76	12	59-147/30
1634-04-4	Methyl Tert Butyl Ether	ND	1790	1580	88	1790	1530	86	3	68-121/19
91-20-3	Naphthalene	ND	1790	1990	111	1790	2010	112	1	68-129/22
103-65-1	n-Propylbenzene	ND	1790	1550	87	1790	1570	88	1	67-116/20
100-42-5	Styrene	ND	1790	1780	100	1790	1790	100	1	68-120/17
994-05-8	Tert-Amyl Methyl Ether	ND	1790	1740	97	1790	1730	97	1	70-129/20
75-65-0	Tert Butyl Alcohol	ND	8940	10100	113	8940	9840	110	3	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	1790	1700	95	1790	1690	94	1	70-123/18
71-55-6	1,1,1-Trichloroethane	ND	1790	1570	88	1790	1590	89	1	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	ND	1790	1640	92	1790	1670	93	2	69-126/18
79-00-5	1,1,2-Trichloroethane	ND	1790	1780	100	1790	1770	99	1	70-120/17
87-61-6	1,2,3-Trichlorobenzene	ND	1790	1950	109	1790	1980	111	2	65-125/23
96-18-4	1,2,3-Trichloropropane	ND	1790	2020	113	1790	2000	112	1	69-128/18
120-82-1	1,2,4-Trichlorobenzene	ND	1790	1830	102	1790	1820	102	1	65-125/22
95-63-6	1,2,4-Trimethylbenzene	ND	1790	1620	91	1790	1630	91	1	67-118/19
108-67-8	1,3,5-Trimethylbenzene	ND	1790	1650	92	1790	1680	94	2	68-120/20
127-18-4	Tetrachloroethylene	ND	1790	1850	103	1790	1750	98	6	66-125/18
108-88-3	Toluene	ND	1790	1700	95	1790	1690	94	1	72-116/18
79-01-6	Trichloroethylene	ND	1790	1810	101	1790	1770	99	2	70-126/18
75-69-4	Trichlorofluoromethane	ND	1790	1580	88	1790	1580	88	0	70-138/19
75-01-4	Vinyl chloride	ND	1790	945	53* a	1790	966	54* a	2	55-146/22
1330-20-7	Xylene (total)	ND	5370	5110	95	5370	5160	96	1	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46446-4	Limits
1868-53-7	Dibromofluoromethane	91%	91%	95%	72-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46435-10, C46435-15, C46435-10R, C46435-15R

CAS No.	Surrogate Recoveries	MS	MSD	C46446-4	Limits
2037-26-5	Toluene-D8	94%	95%	97%	87-113%
460-00-4	4-Bromofluorobenzene	103%	103%	111%	81-115%

(a) Outside control limits due to matrix interference. AZ:M2

* = Outside of Control Limits.

5.4.3
 5

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49975.D
 Acq On : 12 Jul 2016 2:15 pm
 Operator : johannat
 Sample : C46435-1R
 Misc : MS1912,VL1499,5.66,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 10:59:40 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

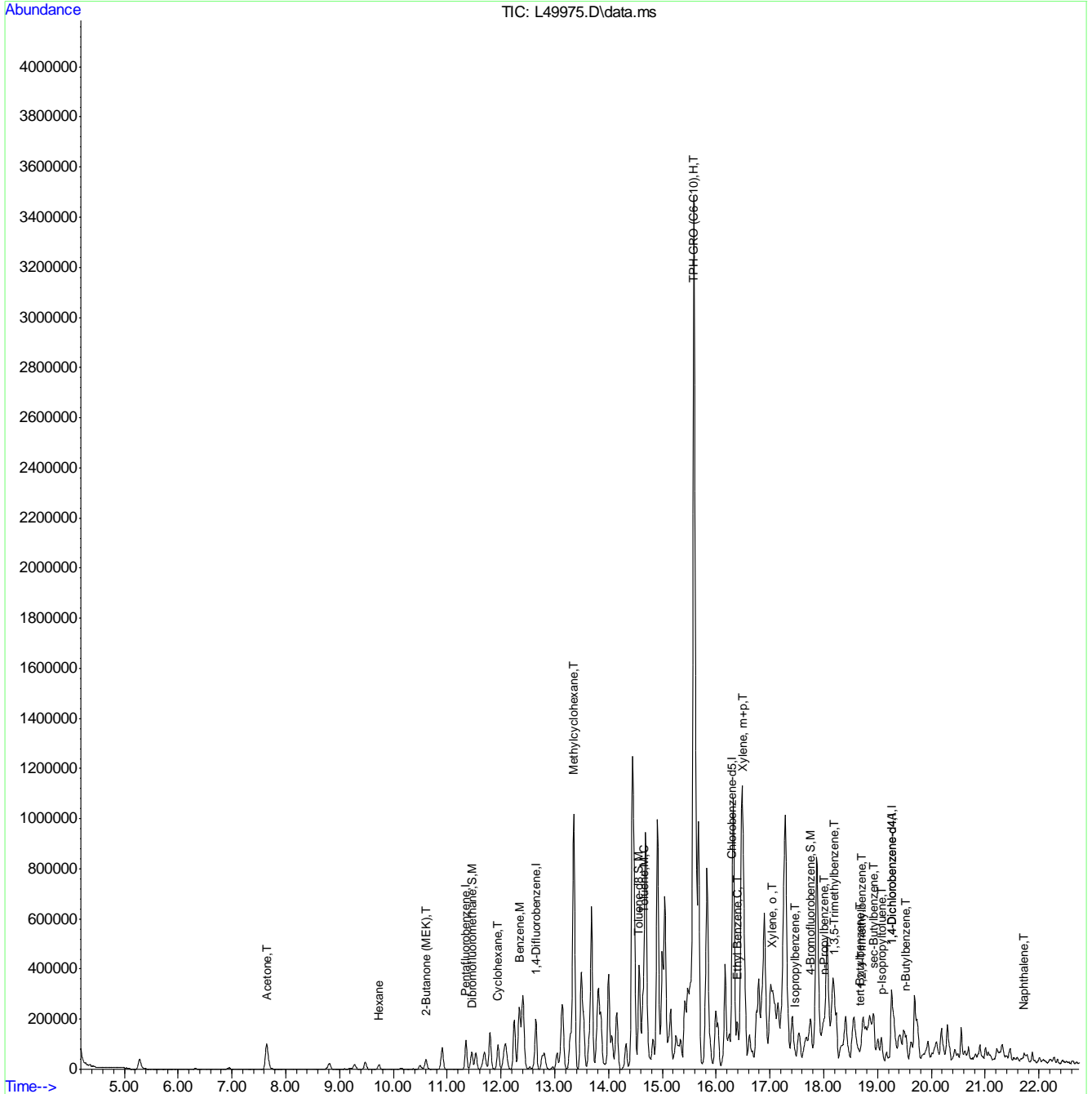
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	991629	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.650	114	1684444	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1438757	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	650864	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	650864	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	582150	19.61	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	98.05%		
56) Toluene-d8	14.559	98	2016299	19.84	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery =	99.20%		
74) 4-Bromofluorobenzene	17.757	95	751828	17.80	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery =	89.00%		
Target Compounds						
						Qvalue
11) Acetone	7.646	58	681661	241.39	ug/Kg#	67
24) Hexane	9.731	57	130054	4.16	ug/Kg	97
30) 2-Butanone (MEK)	10.604	72	161231	43.36	ug/Kg#	76
38) Cyclohexane	11.946	56	687533	15.39	ug/Kg	100
45) Benzene	12.339	78	420151	3.35	ug/Kg	100
48) Methylcyclohexane	13.348	55	5427786	137.63	ug/Kg	97
57) Toluene	14.658	92	84309	1.18	ug/Kg#	33
67) Ethyl Benzene	16.398	91	183749	1.32	ug/Kg	80
68) Xylene, m+p	16.496	106	165720	3.36	ug/Kg#	53
69) Xylene, o	17.031	106	46871	0.93	ug/Kg#	1
73) Isopropylbenzene	17.462	105	440831	3.52	ug/Kg	98
79) n-Propylbenzene	18.002	91	367476	2.43	ug/Kg	93
81) 1,3,5-Trimethylbenzene	18.199	105	238977	2.36	ug/Kg	99
84) tert-Butylbenzene	18.674	119	73740	0.76	ug/Kg#	11
86) 1,2,4-Trimethylbenzene	18.706	105	275098	2.55	ug/Kg	82
87) sec-Butylbenzene	18.925	105	290384	2.27	ug/Kg	95
88) p-Isopropyltoluene	19.072	119	265404	2.55	ug/Kg	87
92) n-Butylbenzene	19.525	91	113972	1.02	ug/Kg#	62
97) Naphthalene	21.718	128	171192	1.73	ug/Kg	100
100) TPH-GRO (C6-C10)	15.585	TIC	891905569m	5218.20	ug/Kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

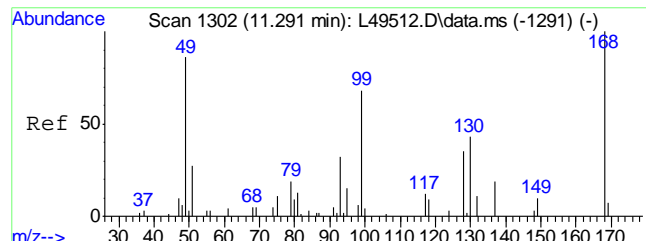
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49975.D
Acq On : 12 Jul 2016 2:15 pm
Operator : johannat
Sample : C46435-1R
Misc : MS1912,VL1499,5.66,,,,,1
ALS Vial : 8 Sample Multiplier: 1

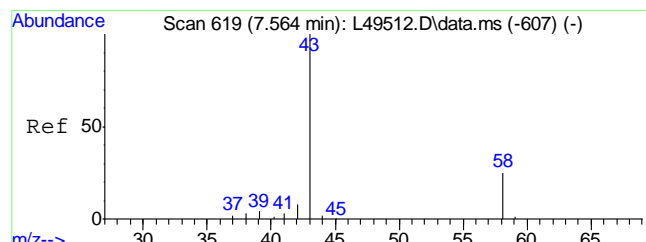
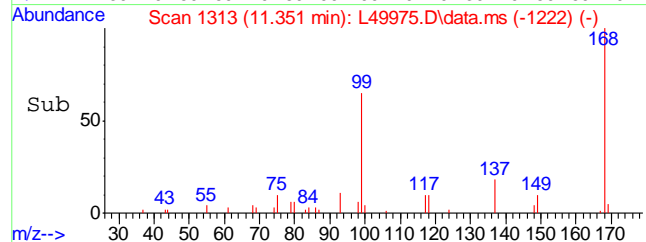
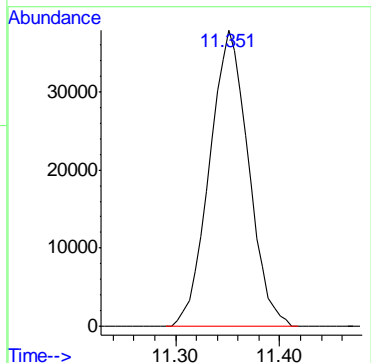
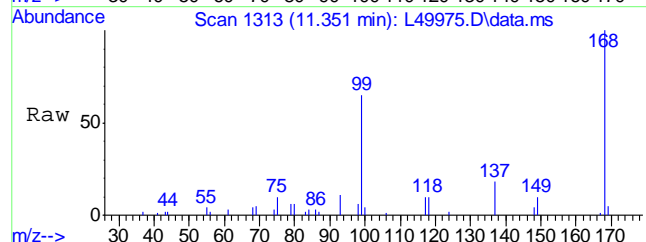
Quant Time: Aug 02 10:59:40 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration



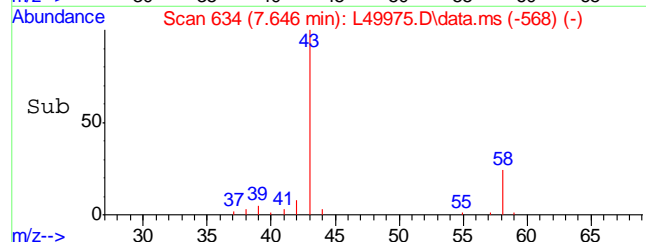
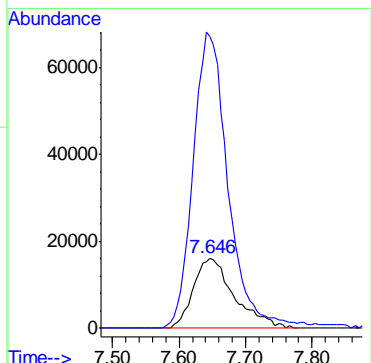
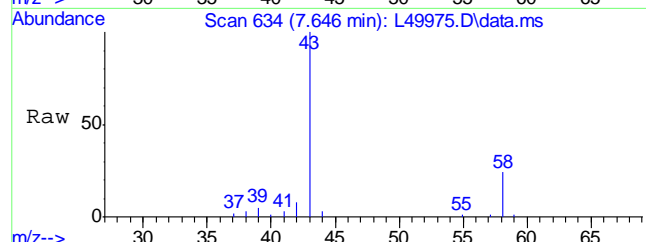
6.1.1
6

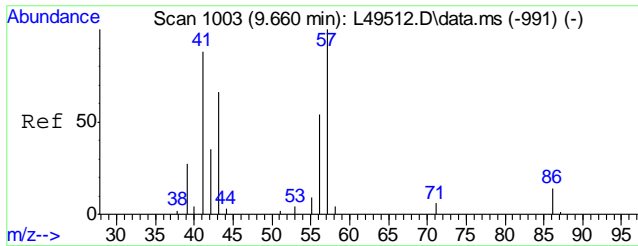


#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion:168 Resp: 991629



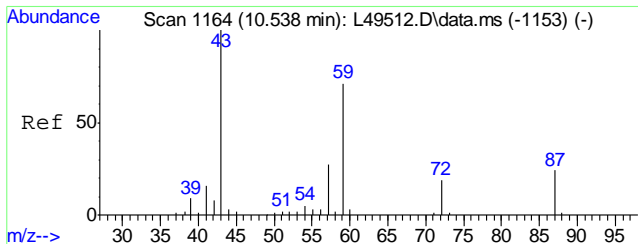
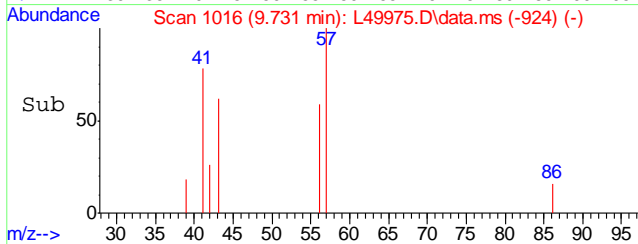
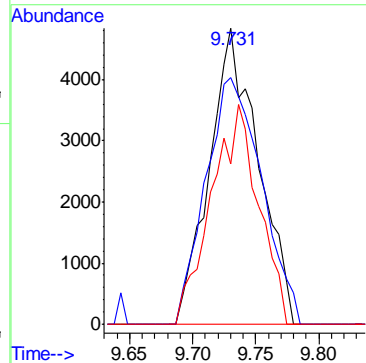
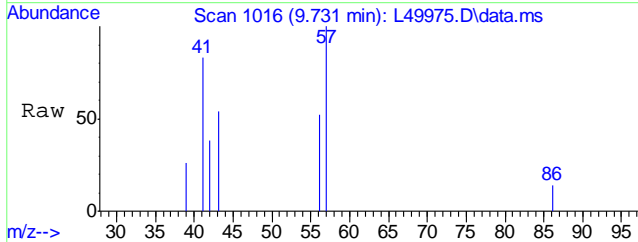
#11
 Acetone
 Concen: 241.39 ug/Kg
 RT: 7.646 min Scan# 634
 Delta R.T. 0.011 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion: 58 Resp: 681661
 Ion Ratio Lower Upper
 58 100
 43 363.4 428.1 468.1#





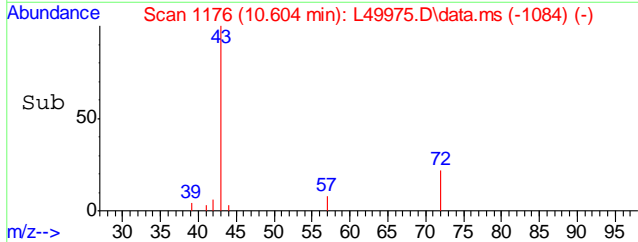
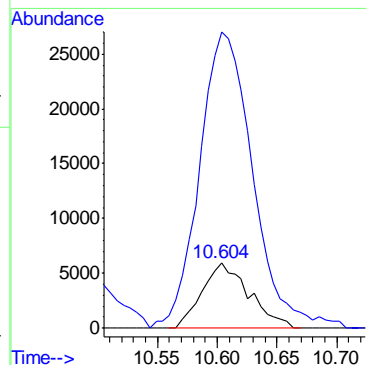
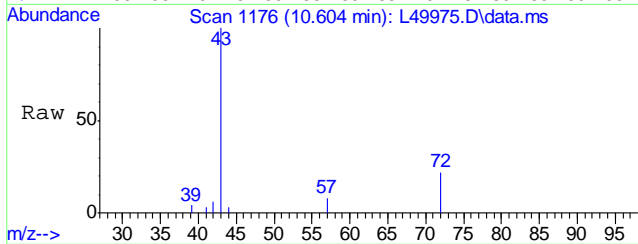
#24
Hexane
Concen: 4.16 ug/Kg
RT: 9.731 min Scan# 1016
Delta R.T. 0.000 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

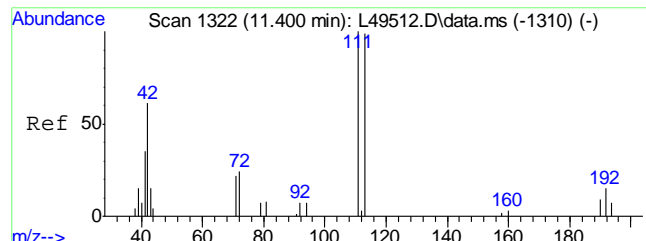
Tgt Ion	Resp	Lower	Upper
57	130054		
41	95.7	73.8	110.8
43	71.9	56.6	84.8



#30
2-Butanone (MEK)
Concen: 43.36 ug/Kg
RT: 10.604 min Scan# 1176
Delta R.T. 0.000 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

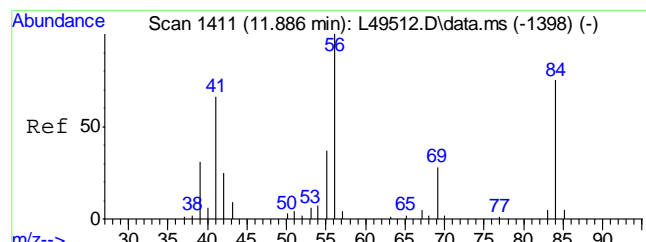
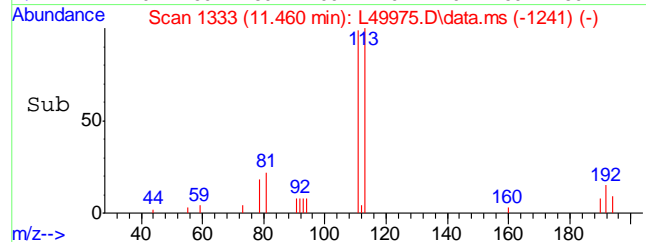
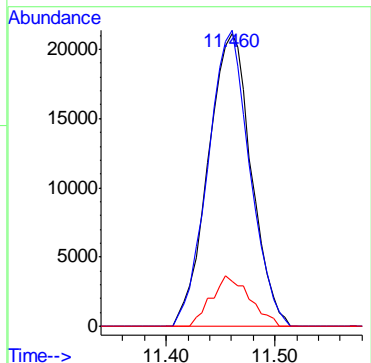
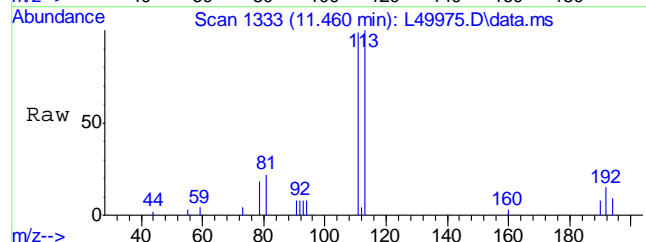
Tgt Ion	Resp	Lower	Upper
72	161231		
43	518.1	573.4	613.4#





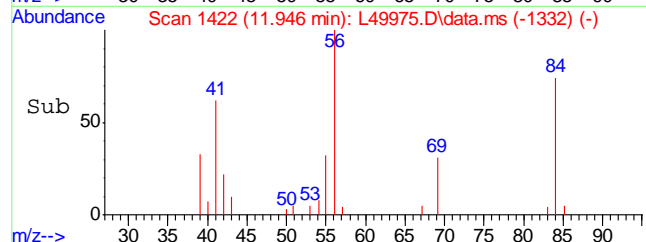
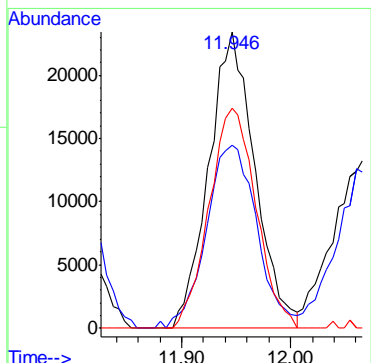
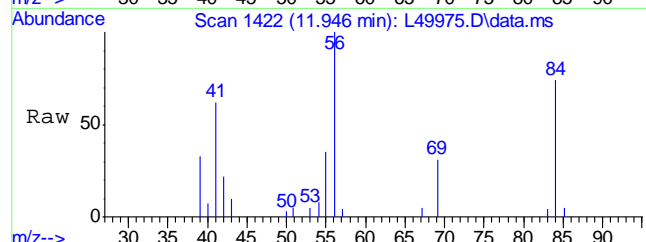
#36
 Dibromofluoromethane
 Concen: 19.61 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

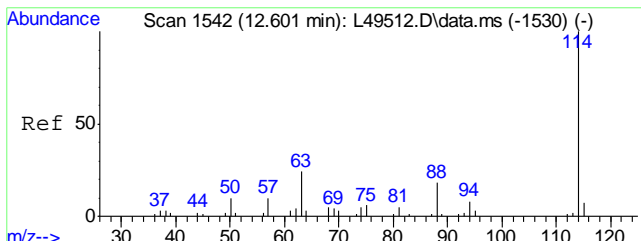
Tgt Ion	Resp	Lower	Upper
111	582150		
113	97.9	78.6	118.6
192	15.4	0.0	34.1



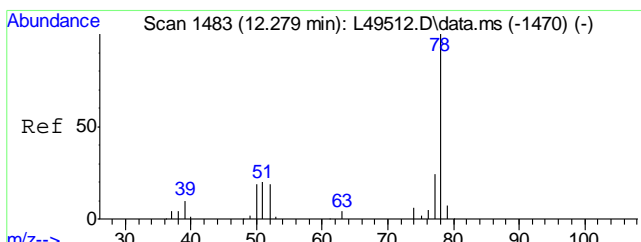
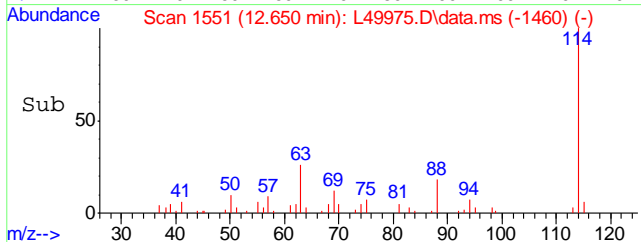
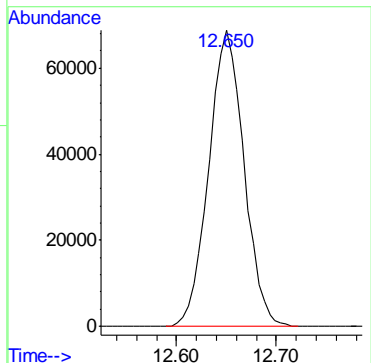
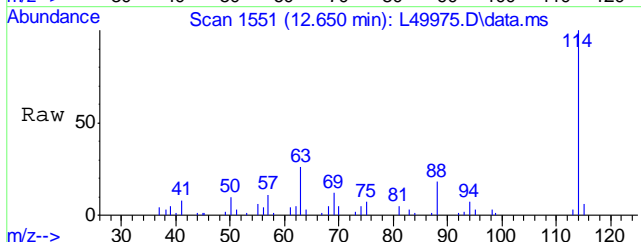
#38
 Cyclohexane
 Concen: 15.39 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.010 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

Tgt Ion	Resp	Lower	Upper
56	687533		
41	67.8	53.7	80.5
84	75.6	60.5	90.7

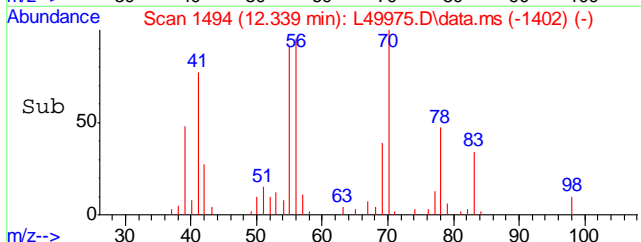
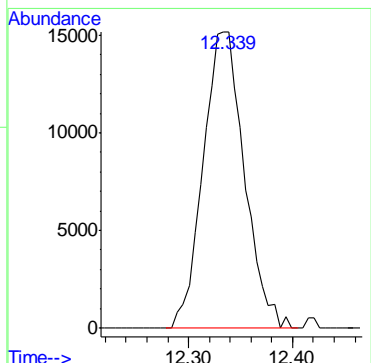
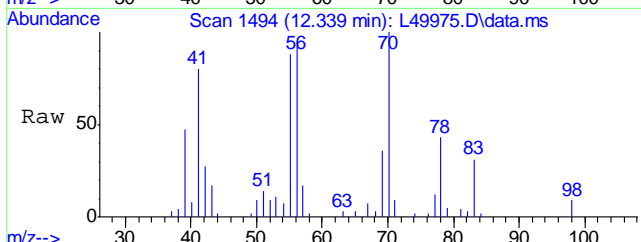


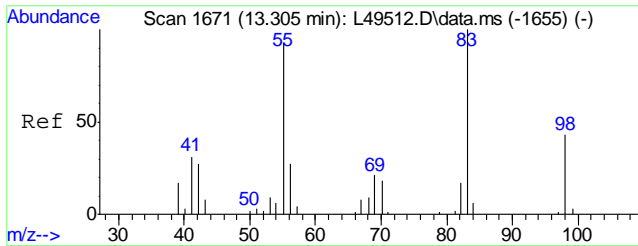


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion:114 Resp: 1684444



#45
 Benzene
 Concen: 3.35 ug/Kg
 RT: 12.339 min Scan# 1494
 Delta R.T. 0.000 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion: 78 Resp: 420151

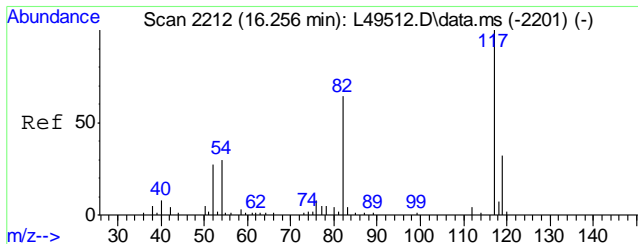
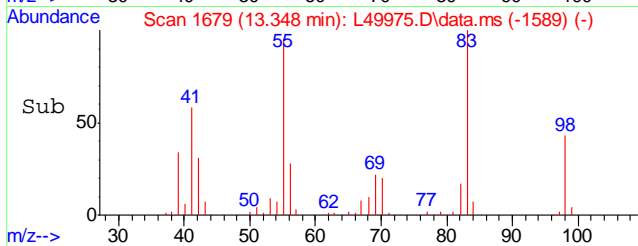
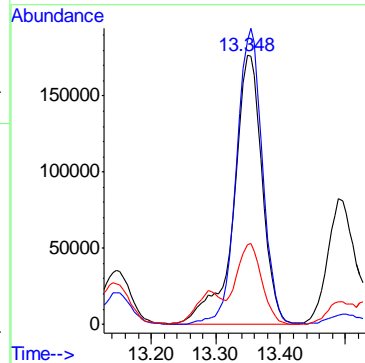
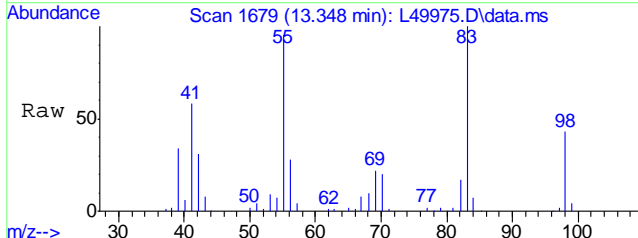




#48
Methylcyclohexane
Concen: 137.63 ug/Kg
RT: 13.348 min Scan# 1679
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

Tgt Ion: 55 Resp: 5427786

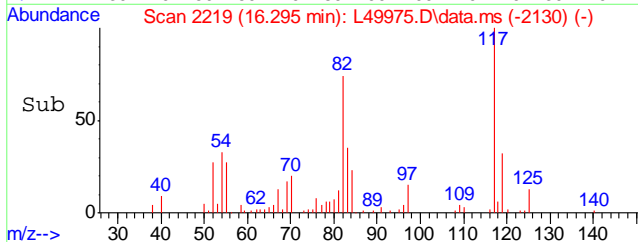
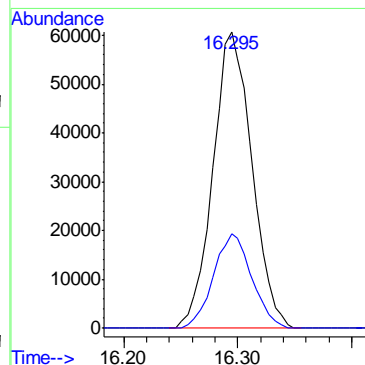
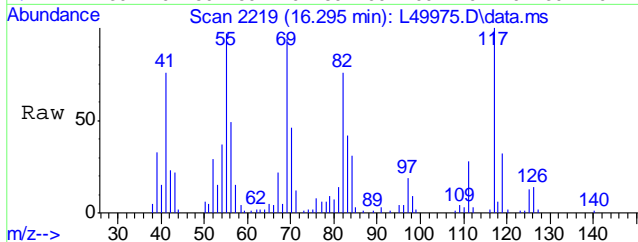
Ion	Ratio	Lower	Upper
55	100		
83	99.9	80.6	120.6
56	26.6	11.5	51.5

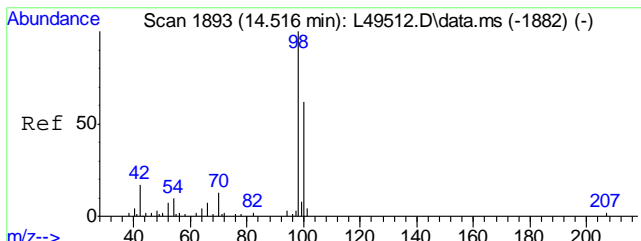


#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

Tgt Ion: 117 Resp: 1438757

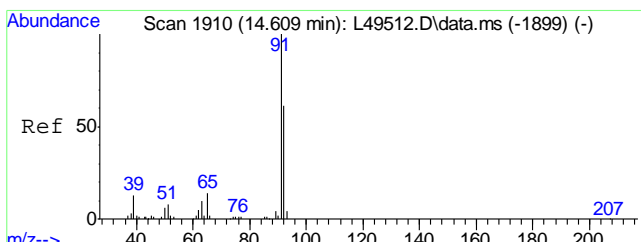
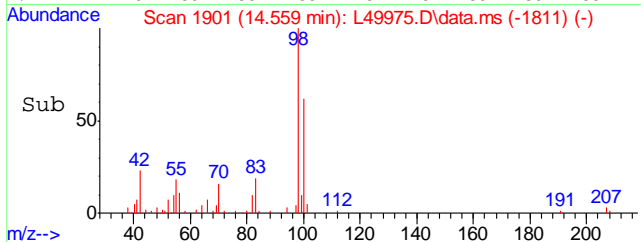
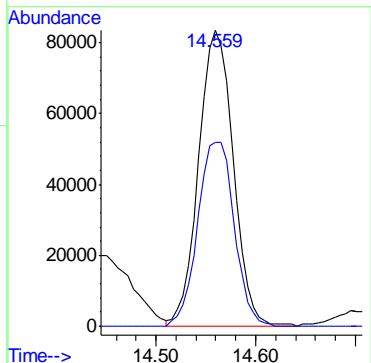
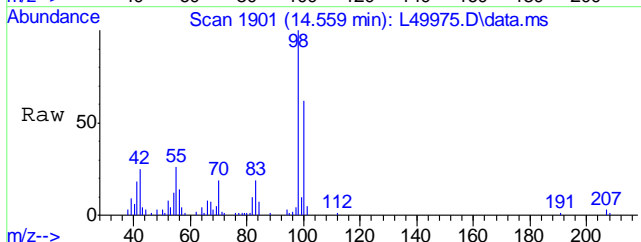
Ion	Ratio	Lower	Upper
117	100		
119	31.2	10.2	50.2





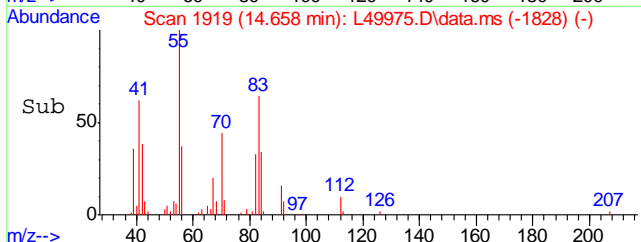
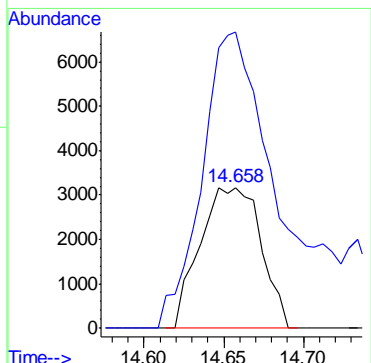
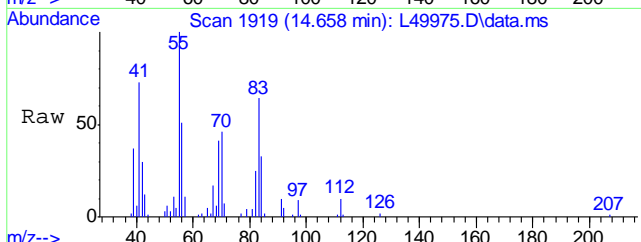
#56
Toluene-d8
Concen: 19.84 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

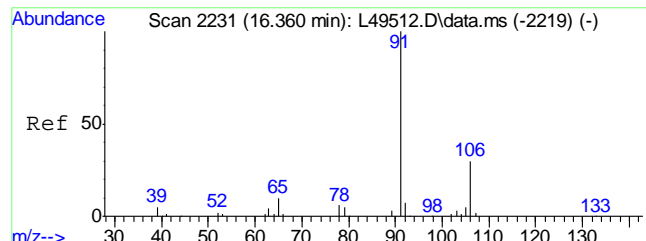
Tgt Ion: 98 Resp: 2016299
Ion Ratio Lower Upper
98 100
100 65.4 45.2 85.2



#57
Toluene
Concen: 1.18 ug/Kg
RT: 14.658 min Scan# 1919
Delta R.T. -0.005 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

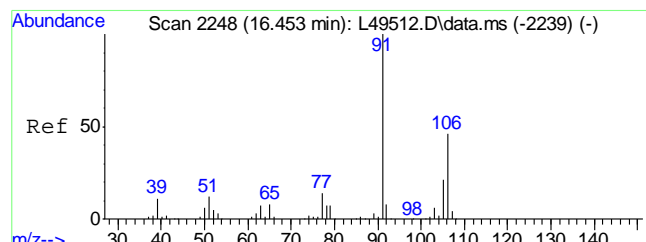
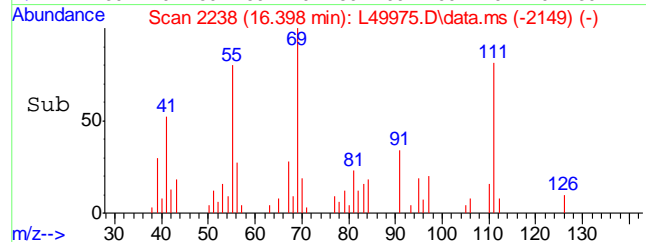
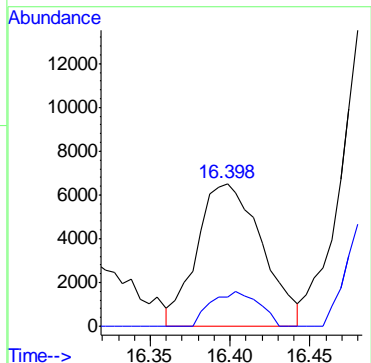
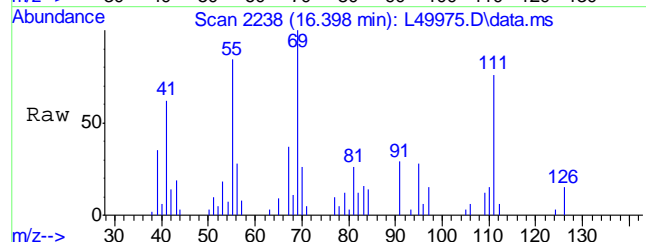
Tgt Ion: 92 Resp: 84309
Ion Ratio Lower Upper
92 100
91 260.9 149.2 189.2#





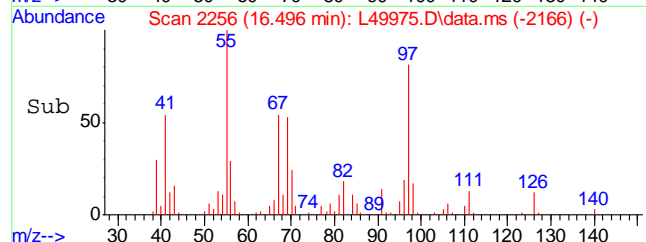
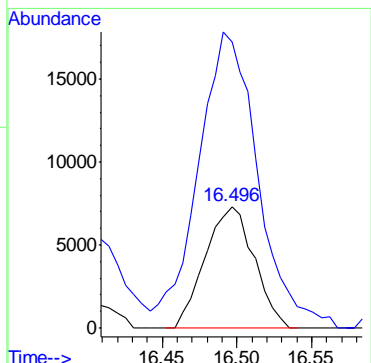
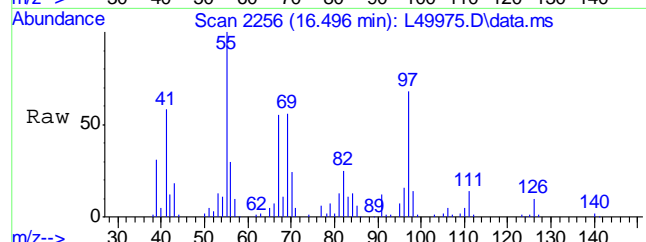
#67
Ethyl Benzene
Concen: 1.32 ug/Kg
RT: 16.398 min Scan# 2238
Delta R.T. -0.016 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

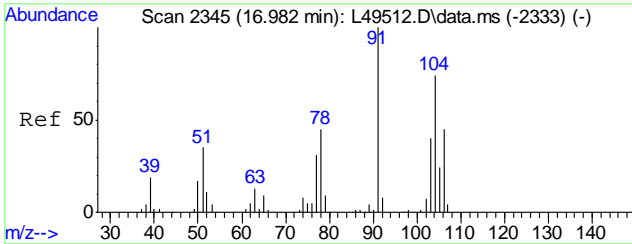
Tgt Ion	Resp	Lower	Upper
91	183749	100	
106	18.2	8.6	48.6



#68
Xylene, m+p
Concen: 3.36 ug/Kg
RT: 16.496 min Scan# 2256
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

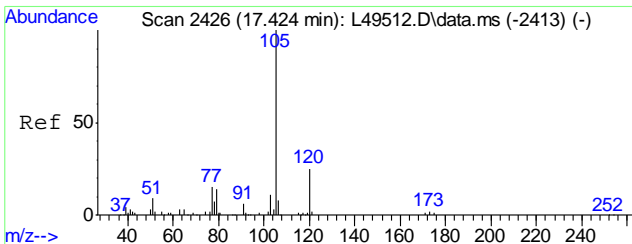
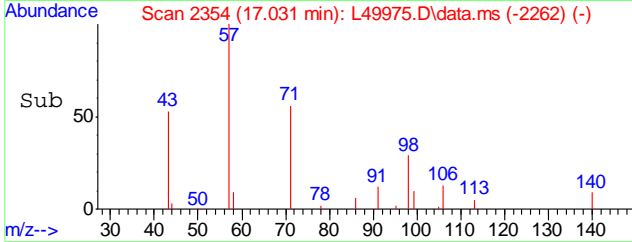
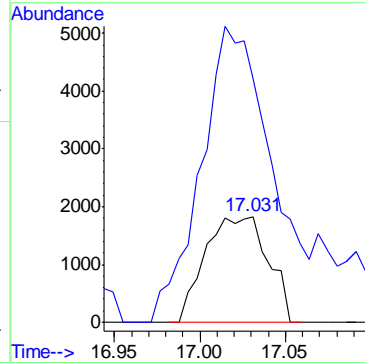
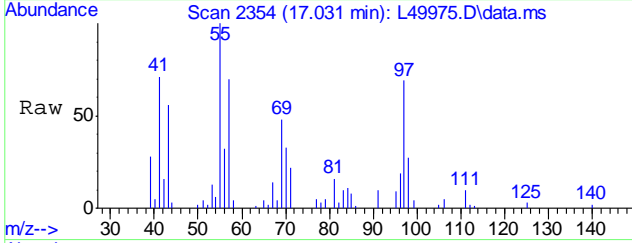
Tgt Ion	Resp	Lower	Upper
106	165720	100	
91	298.2	202.1	242.1#





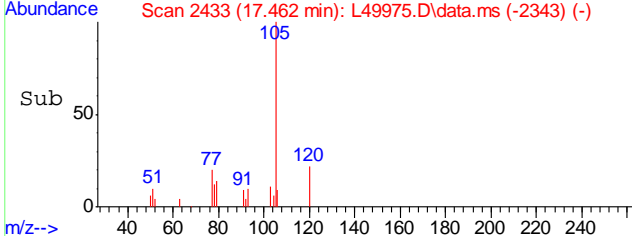
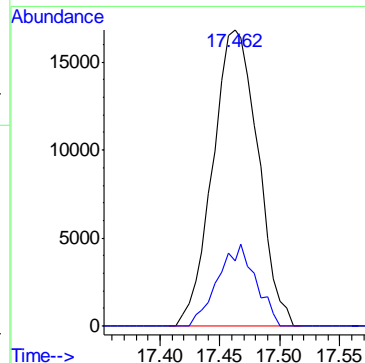
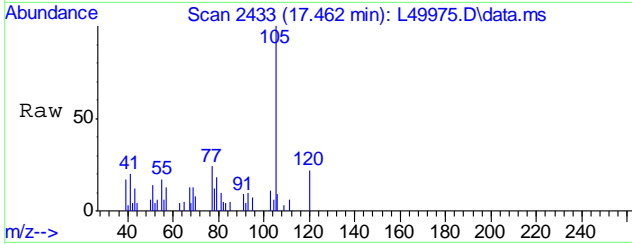
#69
Xylene, o
Concen: 0.93 ug/Kg
RT: 17.031 min Scan# 2354
Delta R.T. 0.000 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

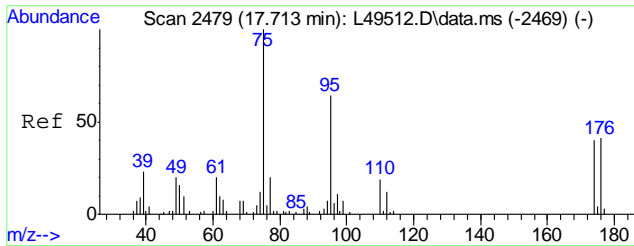
Tgt Ion:	106	Resp:	46871
Ion Ratio	Lower	Upper	
106	100		
91	440.3	212.6	252.6#



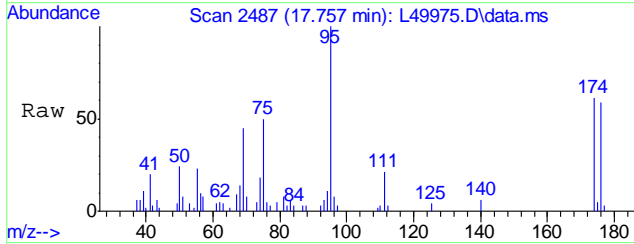
#73
Isopropylbenzene
Concen: 3.52 ug/Kg
RT: 17.462 min Scan# 2433
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

Tgt Ion:	105	Resp:	440831
Ion Ratio	Lower	Upper	
105	100		
120	23.1	4.1	44.1

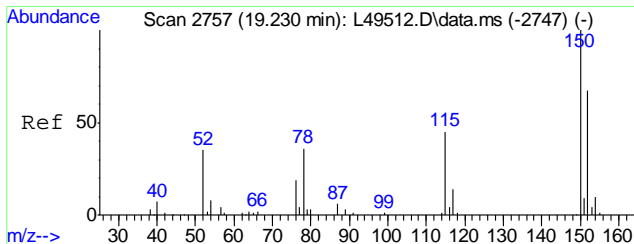
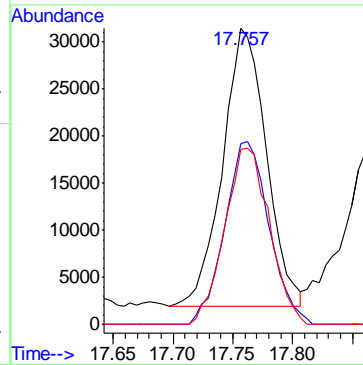
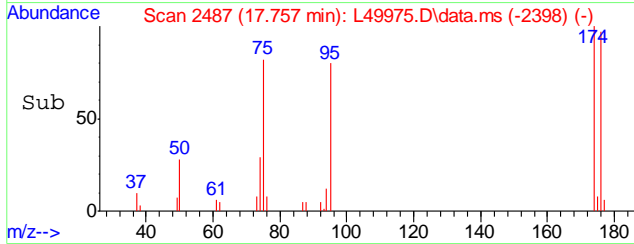




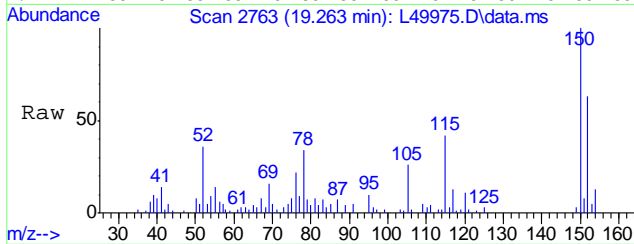
#74
 4-Bromofluorobenzene
 Concen: 17.80 ug/Kg
 RT: 17.757 min Scan# 2487
 Delta R.T. -0.016 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm



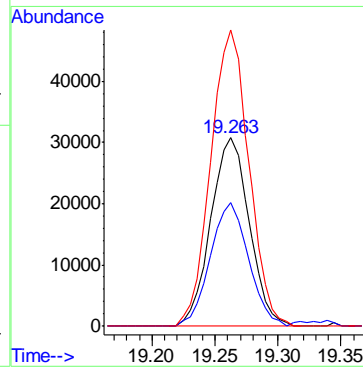
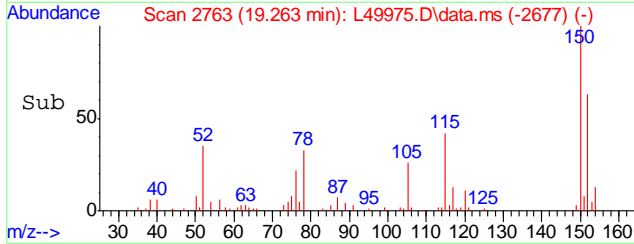
Tgt Ion: 95 Resp: 751828
 Ion Ratio Lower Upper
 95 100
 174 66.6 41.6 81.6
 176 64.7 39.6 79.6

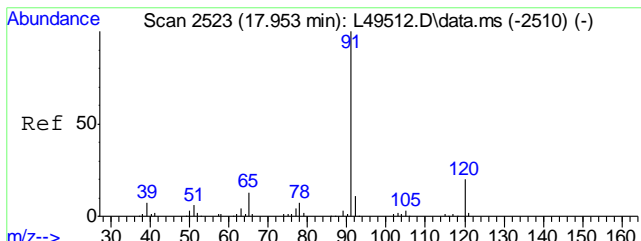


#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm



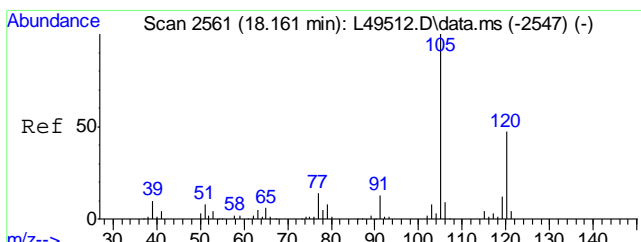
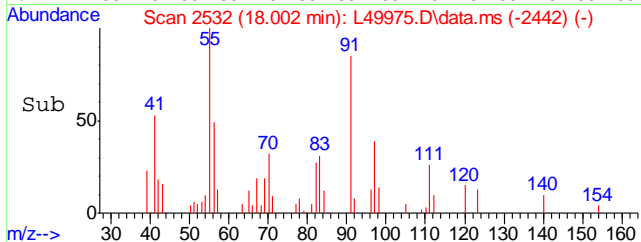
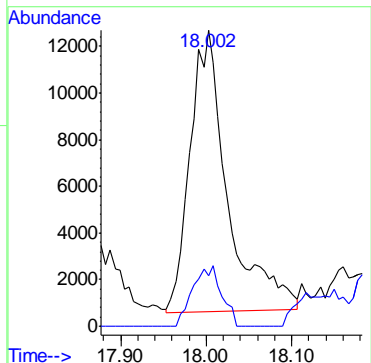
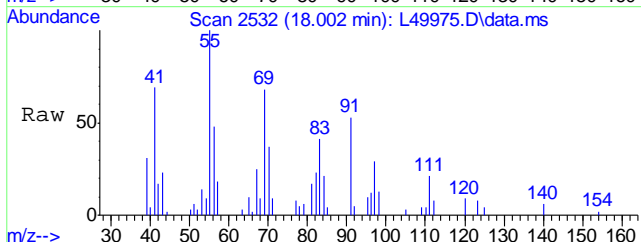
Tgt Ion: 152 Resp: 650864
 Ion Ratio Lower Upper
 152 100
 115 65.2 48.8 88.8
 150 155.6 174.3 214.3#





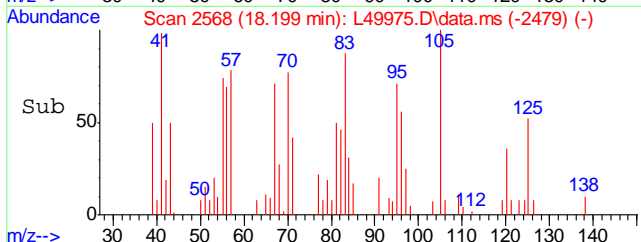
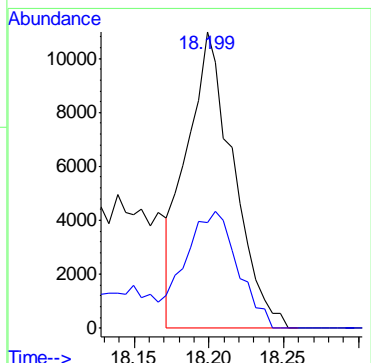
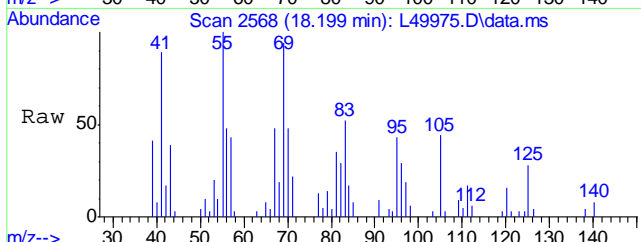
#79
 n-Propylbenzene
 Concen: 2.43 ug/Kg
 RT: 18.002 min Scan# 2532
 Delta R.T. -0.010 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

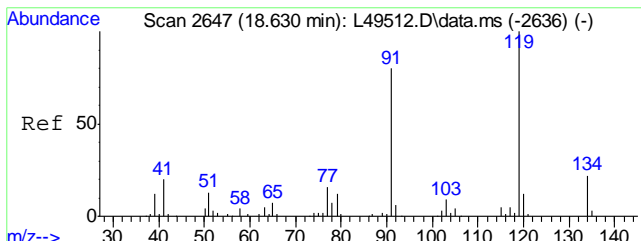
Tgt Ion: 91 Resp: 367476
 Ion Ratio Lower Upper
 91 100
 120 16.4 0.0 39.7



#81
 1,3,5-Trimethylbenzene
 Concen: 2.36 ug/Kg
 RT: 18.199 min Scan# 2568
 Delta R.T. -0.016 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

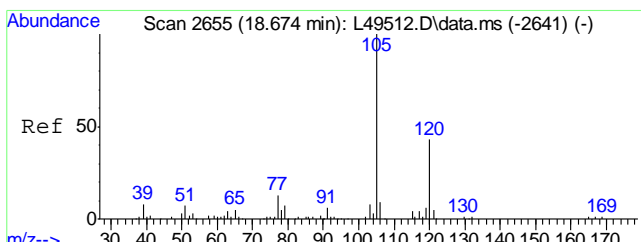
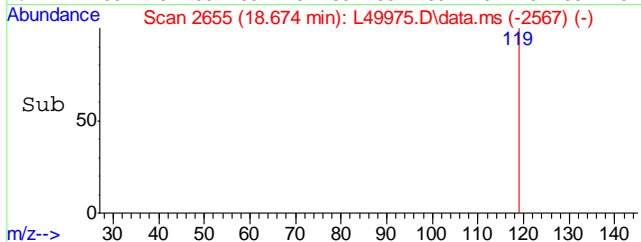
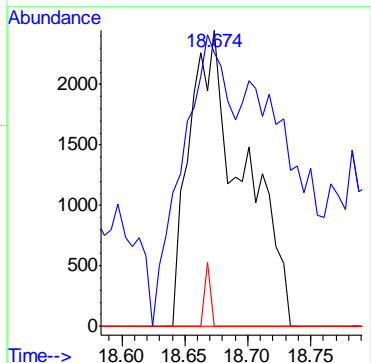
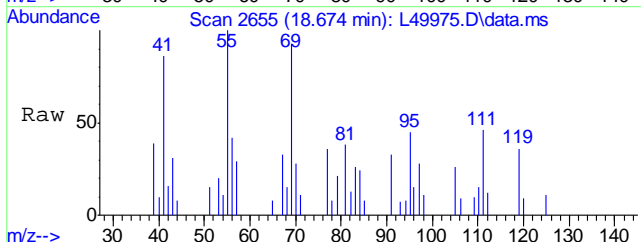
Tgt Ion: 105 Resp: 238977
 Ion Ratio Lower Upper
 105 100
 120 44.4 24.8 64.8





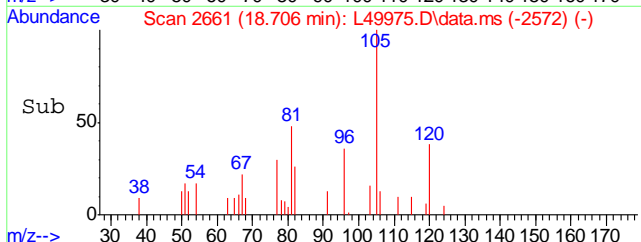
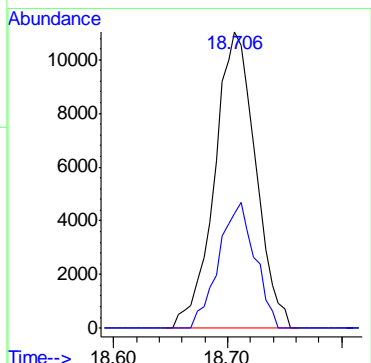
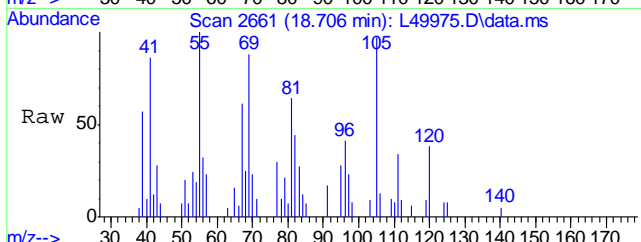
#84
 tert-Butylbenzene
 Concen: 0.76 ug/Kg
 RT: 18.674 min Scan# 2655
 Delta R.T. -0.019 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

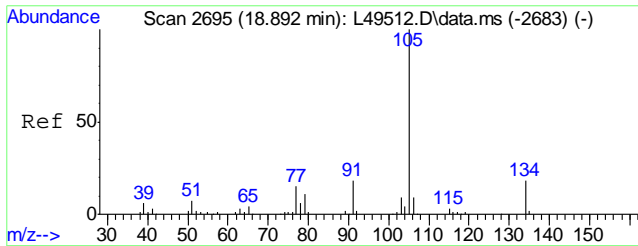
Tgt Ion	Resp	Lower	Upper
119	73740	100	
91	174.7	64.0	104.0#
134	0.0	0.0	38.8



#86
 1,2,4-Trimethylbenzene
 Concen: 2.55 ug/Kg
 RT: 18.706 min Scan# 2661
 Delta R.T. -0.016 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

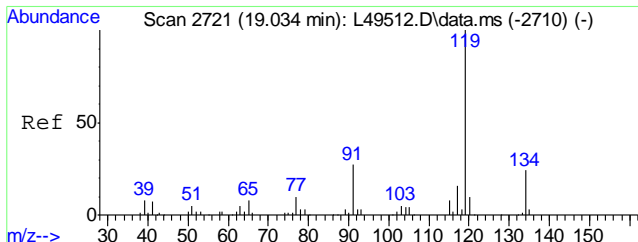
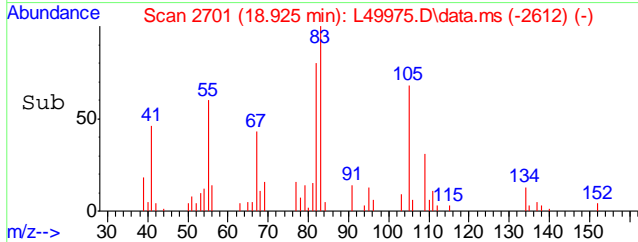
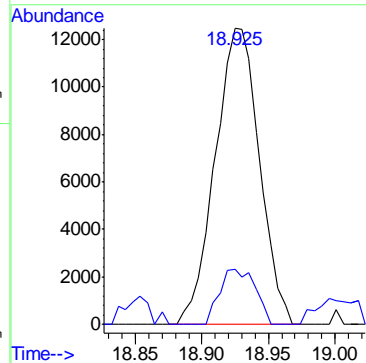
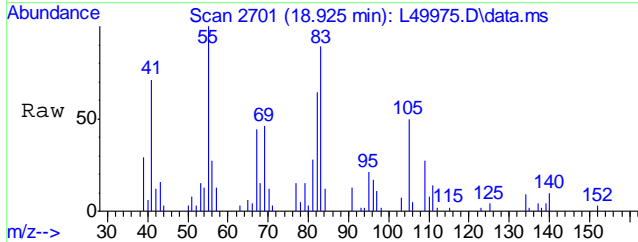
Tgt Ion	Resp	Lower	Upper
105	275098	100	
120	37.6	29.7	69.7





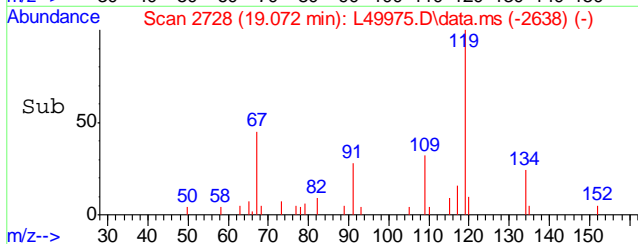
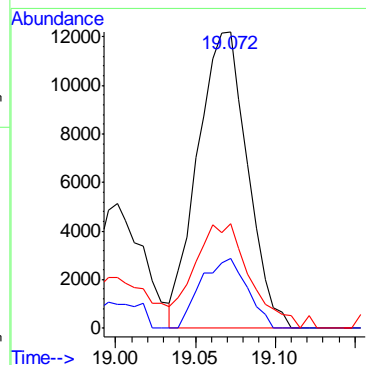
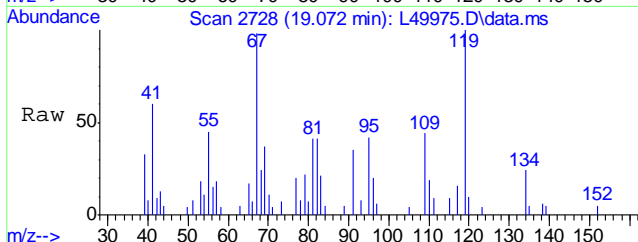
#87
 sec-Butylbenzene
 Concen: 2.27 ug/Kg
 RT: 18.925 min Scan# 2701
 Delta R.T. -0.016 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

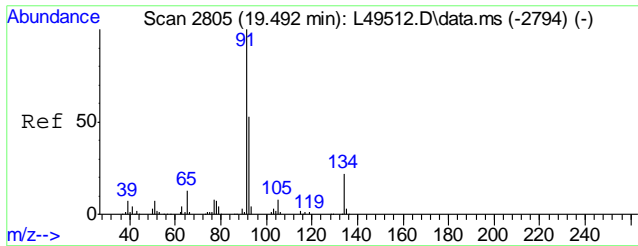
Tgt Ion	Ratio	Lower	Upper
105	100		
134	14.9	0.0	37.0



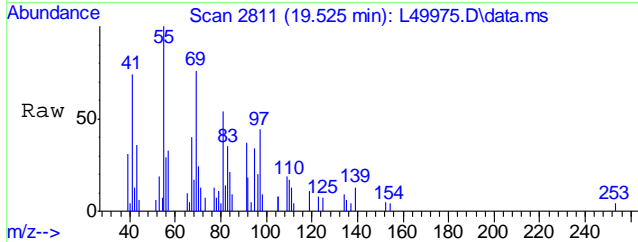
#88
 p-Isopropyltoluene
 Concen: 2.55 ug/Kg
 RT: 19.072 min Scan# 2728
 Delta R.T. -0.010 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

Tgt Ion	Ratio	Lower	Upper
119	100		
134	21.9	3.9	43.9
91	39.5	8.5	48.5



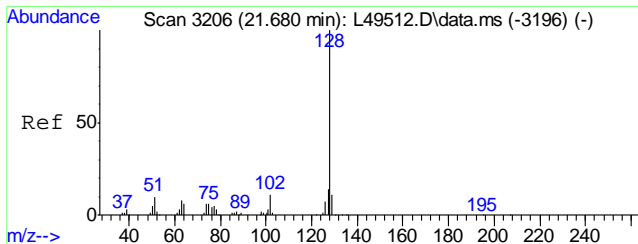
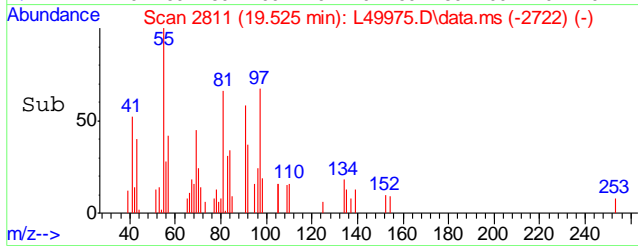
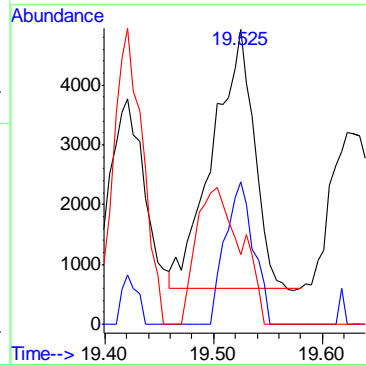


#92
n-Butylbenzene
Concen: 1.02 ug/Kg
RT: 19.525 min Scan# 2811
Delta R.T. -0.016 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

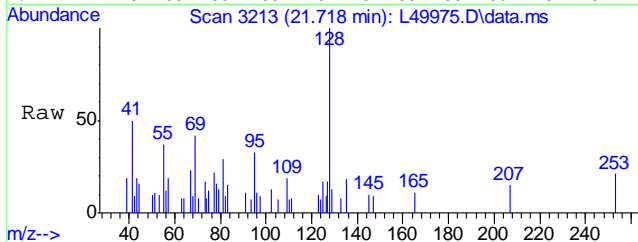


Tgt Ion: 91 Resp: 113972

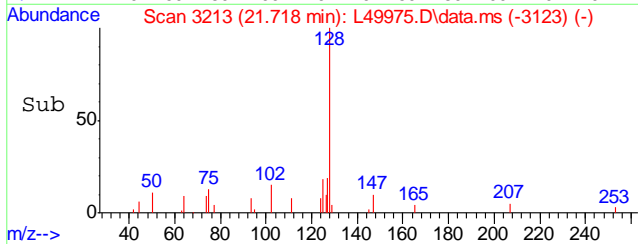
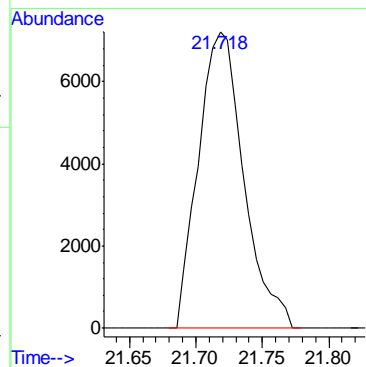
Ion	Ratio	Lower	Upper
91	100		
92	38.1	35.1	75.1
134	56.6	1.1	41.1#

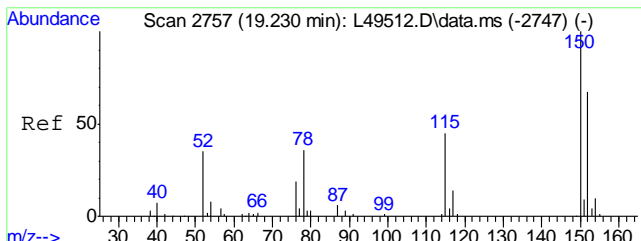


#97
Naphthalene
Concen: 1.73 ug/Kg
RT: 21.718 min Scan# 3213
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm



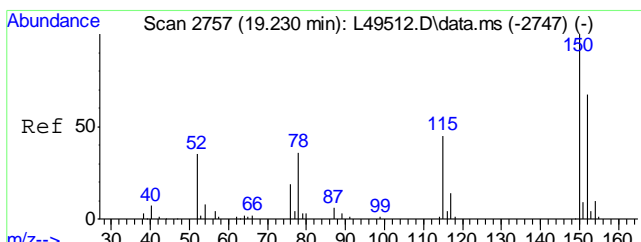
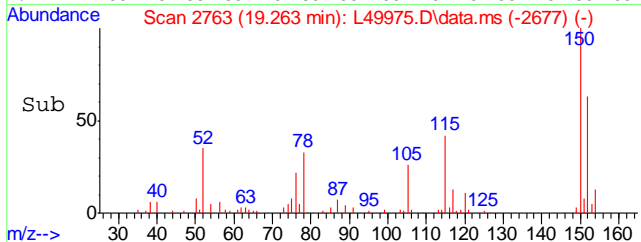
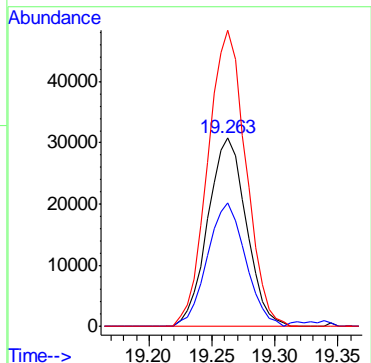
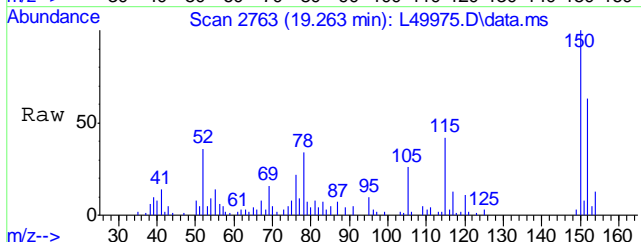
Tgt Ion: 128 Resp: 171192





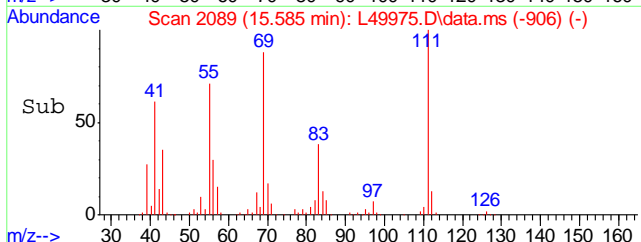
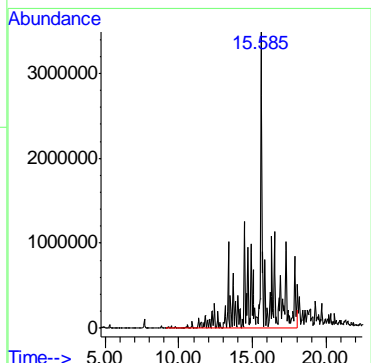
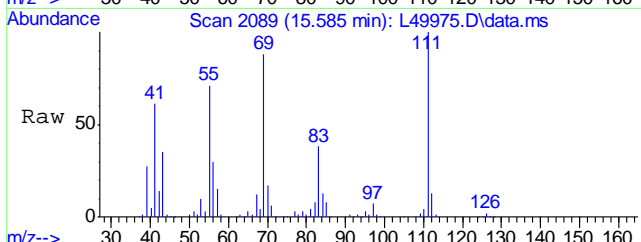
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	65.2	41.6	81.6
150	155.6	176.9	216.9#



#100
 TPH-GRO (C6-C10)
 Concen: 5218.20 ug/Kg m
 RT: 15.585 min Scan# 2089
 Delta R.T. 1.060 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

Tgt Ion:TIC Resp:891905569



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49975.D
 Acq On : 12 Jul 2016 2:15 pm
 Operator : johannat
 Sample : C46435-1R
 Misc : MS1912,VL1499,5.66,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 10:59:40 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

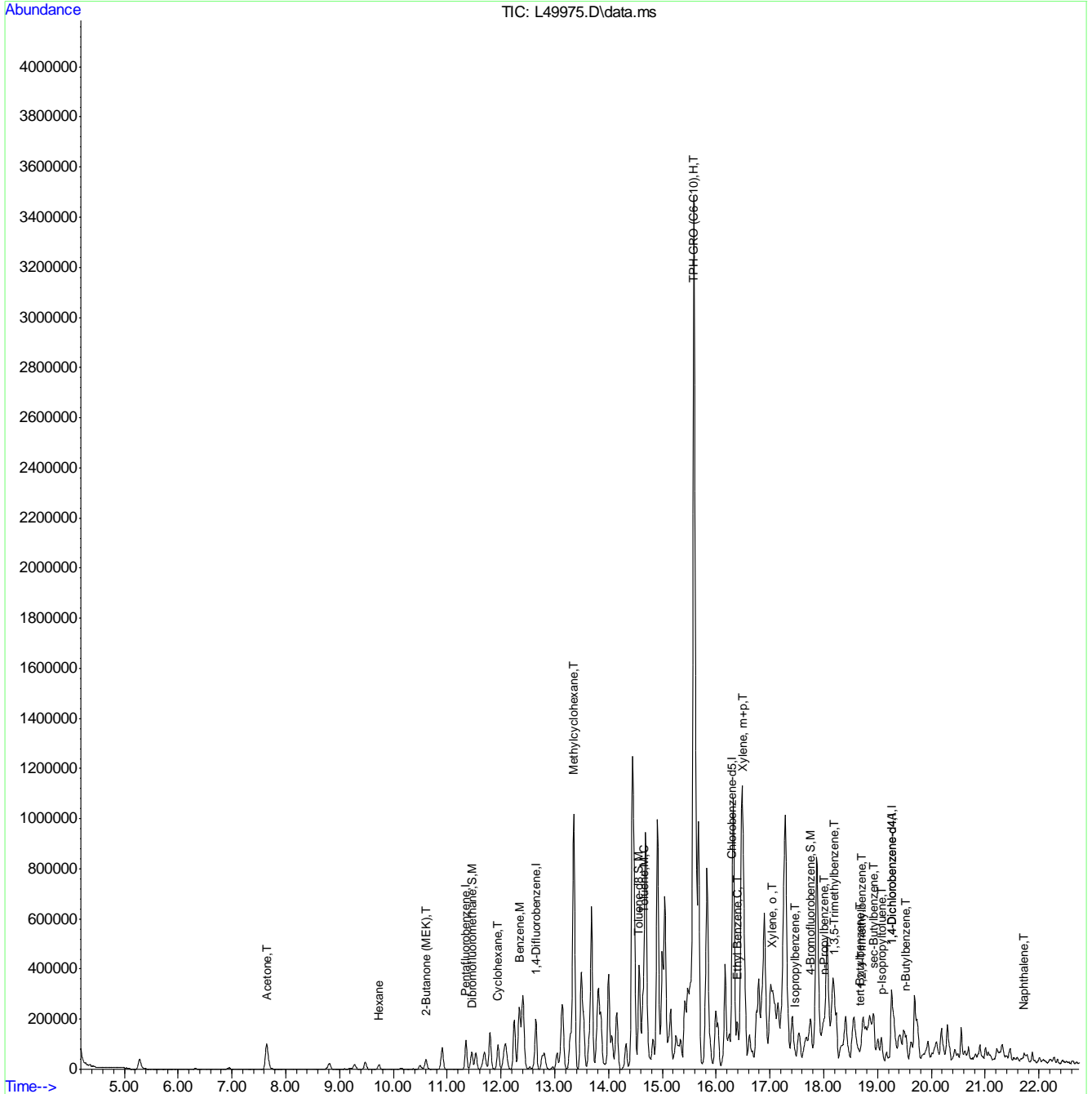
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	991629	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.650	114	1684444	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1438757	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	650864	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	650864	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	582150	19.61	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	98.05%		
56) Toluene-d8	14.559	98	2016299	19.84	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery =	99.20%		
74) 4-Bromofluorobenzene	17.757	95	751828	17.80	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery =	89.00%		
Target Compounds						
						Qvalue
11) Acetone	7.646	58	681661	241.39	ug/Kg#	67
24) Hexane	9.731	57	130054	4.16	ug/Kg	97
30) 2-Butanone (MEK)	10.604	72	161231	43.36	ug/Kg#	76
38) Cyclohexane	11.946	56	687533	15.39	ug/Kg	100
45) Benzene	12.339	78	420151	3.35	ug/Kg	100
48) Methylcyclohexane	13.348	55	5427786	137.63	ug/Kg	97
57) Toluene	14.658	92	84309	1.18	ug/Kg#	33
67) Ethyl Benzene	16.398	91	183749	1.32	ug/Kg	80
68) Xylene, m+p	16.496	106	165720	3.36	ug/Kg#	53
69) Xylene, o	17.031	106	46871	0.93	ug/Kg#	1
73) Isopropylbenzene	17.462	105	440831	3.52	ug/Kg	98
79) n-Propylbenzene	18.002	91	367476	2.43	ug/Kg	93
81) 1,3,5-Trimethylbenzene	18.199	105	238977	2.36	ug/Kg	99
84) tert-Butylbenzene	18.674	119	73740	0.76	ug/Kg#	11
86) 1,2,4-Trimethylbenzene	18.706	105	275098	2.55	ug/Kg	82
87) sec-Butylbenzene	18.925	105	290384	2.27	ug/Kg	95
88) p-Isopropyltoluene	19.072	119	265404	2.55	ug/Kg	87
92) n-Butylbenzene	19.525	91	113972	1.02	ug/Kg#	62
97) Naphthalene	21.718	128	171192	1.73	ug/Kg	100
100) TPH-GRO (C6-C10)	15.585	TIC	891905569m	5218.20	ug/Kg	

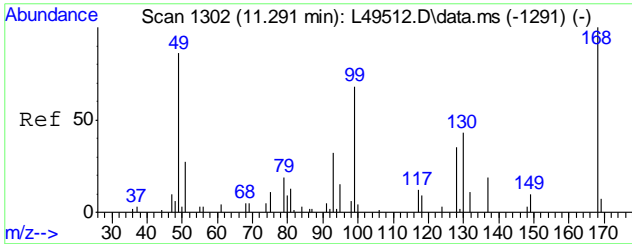
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

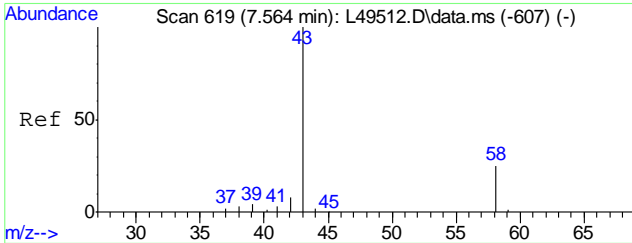
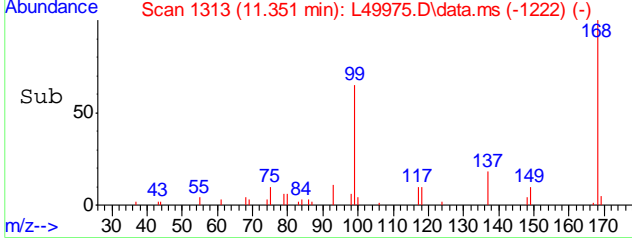
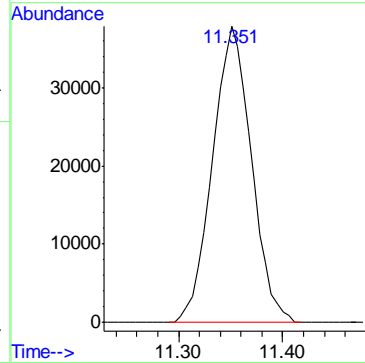
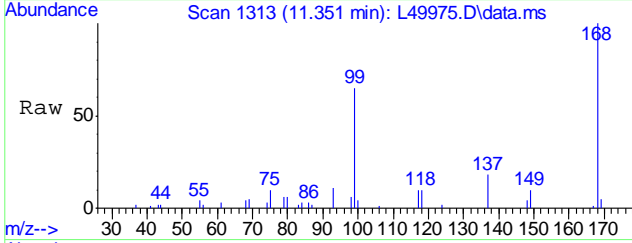
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49975.D
Acq On : 12 Jul 2016 2:15 pm
Operator : johannat
Sample : C46435-1R
Misc : MS1912,VL1499,5.66,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 10:59:40 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

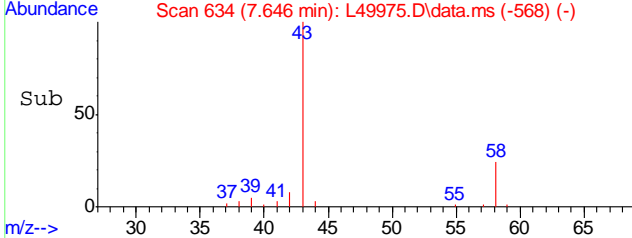
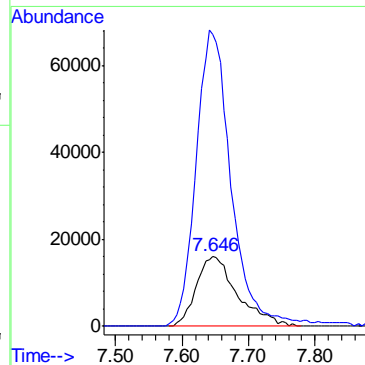
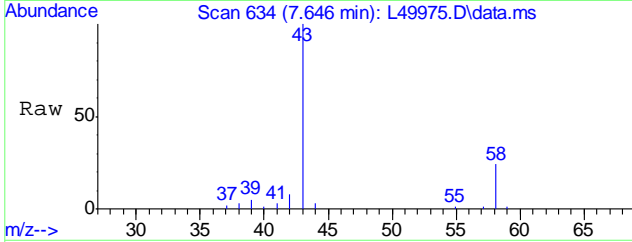


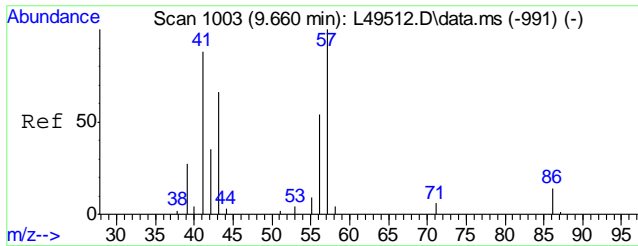


#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion:168 Resp: 991629



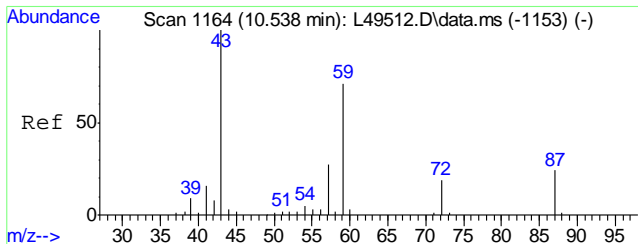
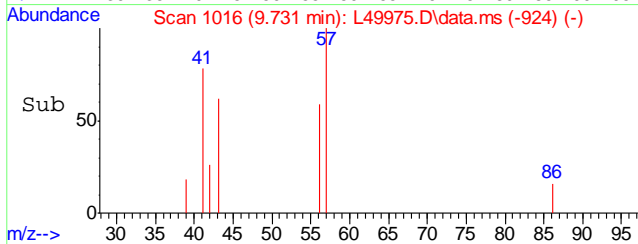
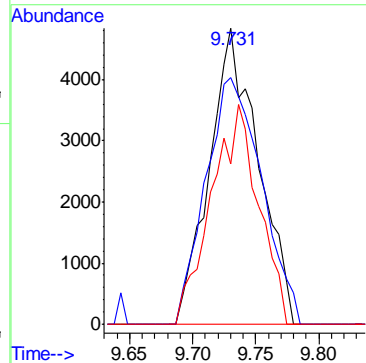
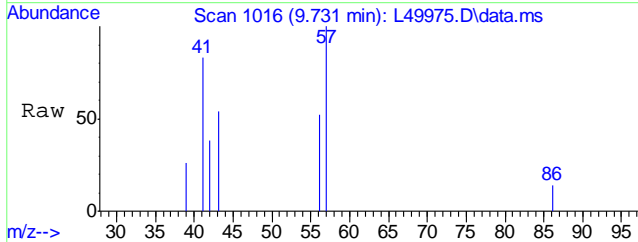
#11
 Acetone
 Concen: 241.39 ug/Kg
 RT: 7.646 min Scan# 634
 Delta R.T. 0.011 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion: 58 Resp: 681661
 Ion Ratio Lower Upper
 58 100
 43 363.4 428.1 468.1#





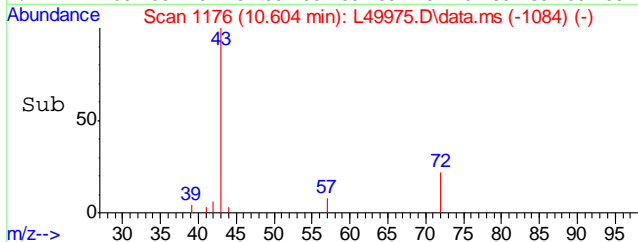
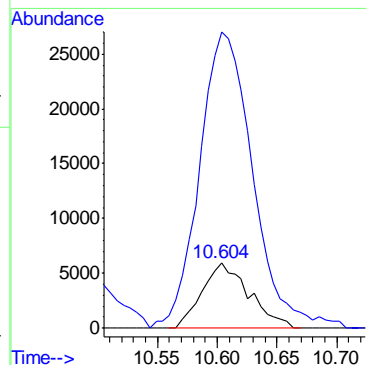
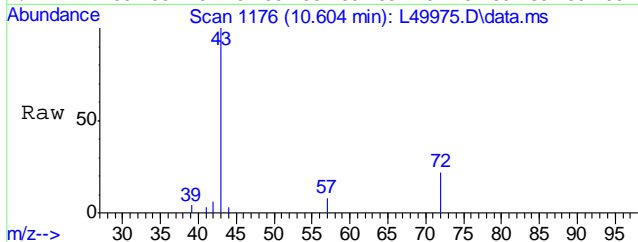
#24
Hexane
Concen: 4.16 ug/Kg
RT: 9.731 min Scan# 1016
Delta R.T. 0.000 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

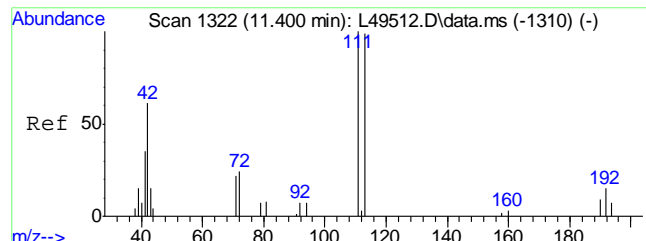
Tgt Ion	Resp	Lower	Upper
57	130054		
41	95.7	73.8	110.8
43	71.9	56.6	84.8



#30
2-Butanone (MEK)
Concen: 43.36 ug/Kg
RT: 10.604 min Scan# 1176
Delta R.T. 0.000 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

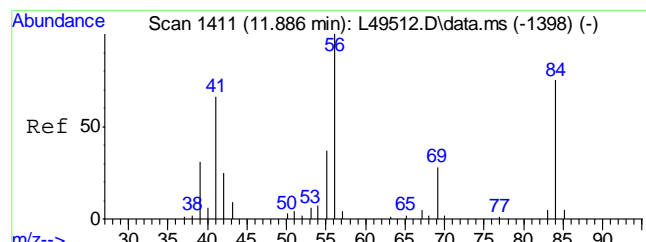
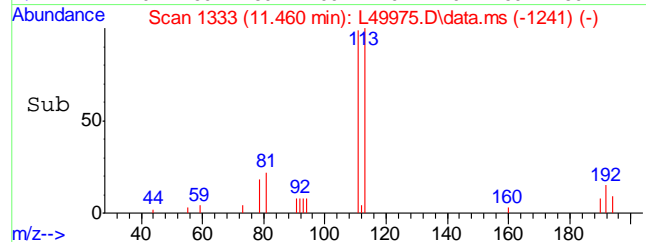
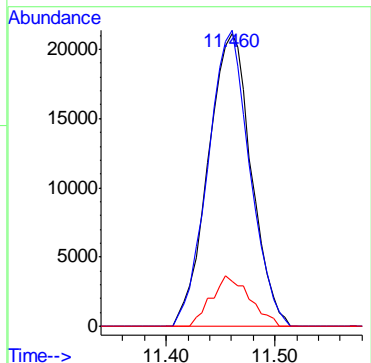
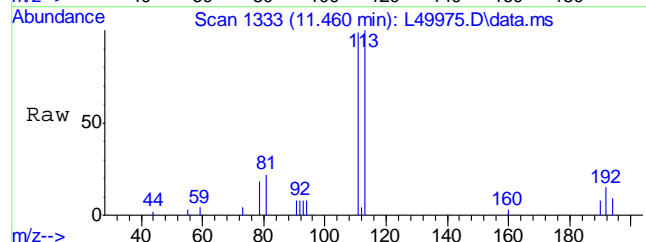
Tgt Ion	Resp	Lower	Upper
72	161231		
43	518.1	573.4	613.4#





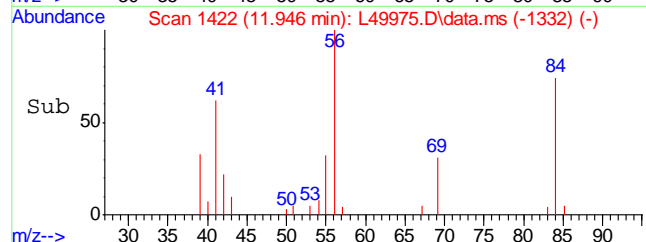
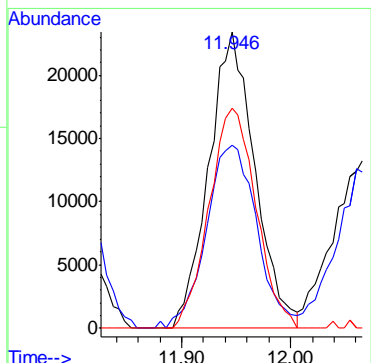
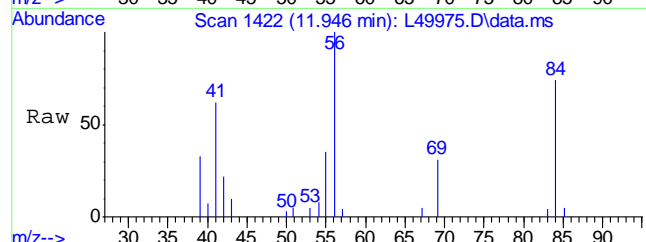
#36
 Dibromofluoromethane
 Concen: 19.61 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

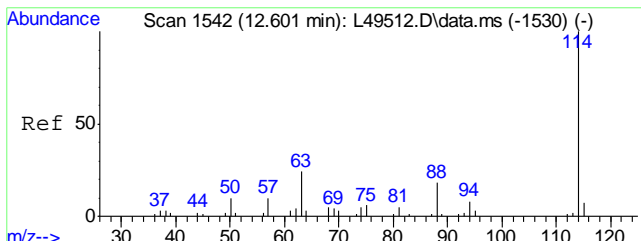
Tgt Ion	Resp	Lower	Upper
111	582150		
113	97.9	78.6	118.6
192	15.4	0.0	34.1



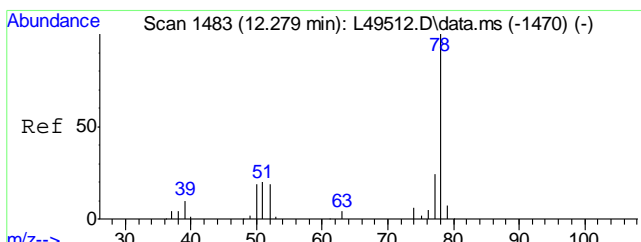
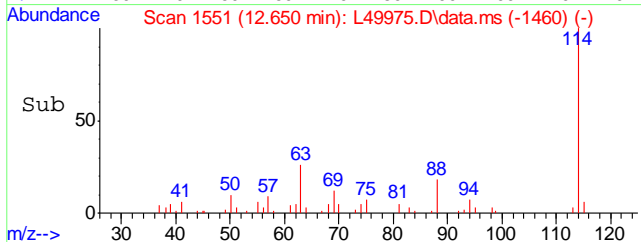
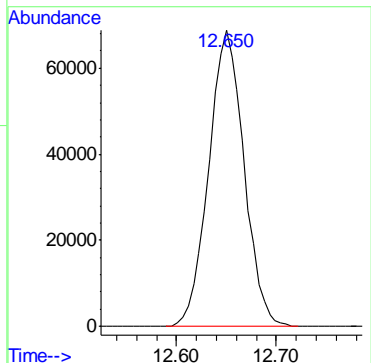
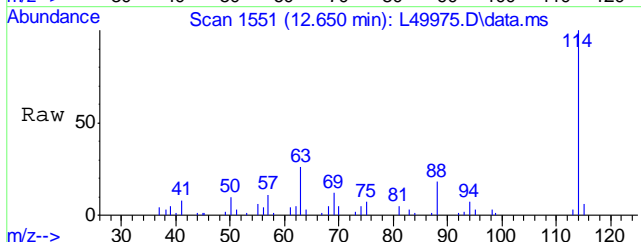
#38
 Cyclohexane
 Concen: 15.39 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.010 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

Tgt Ion	Resp	Lower	Upper
56	687533		
41	67.8	53.7	80.5
84	75.6	60.5	90.7

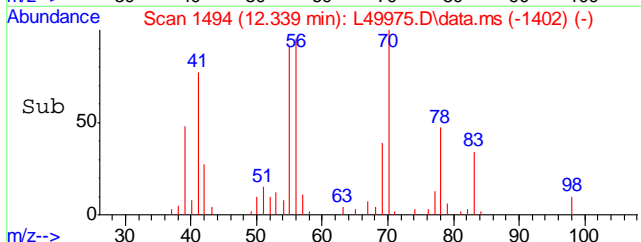
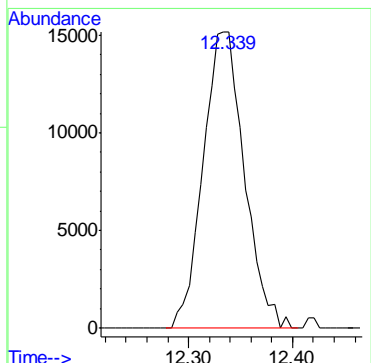
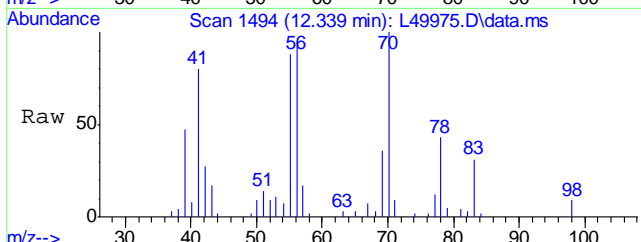


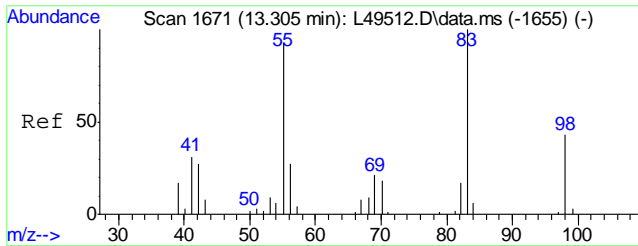


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion:114 Resp: 1684444



#45
 Benzene
 Concen: 3.35 ug/Kg
 RT: 12.339 min Scan# 1494
 Delta R.T. 0.000 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm
 Tgt Ion: 78 Resp: 420151

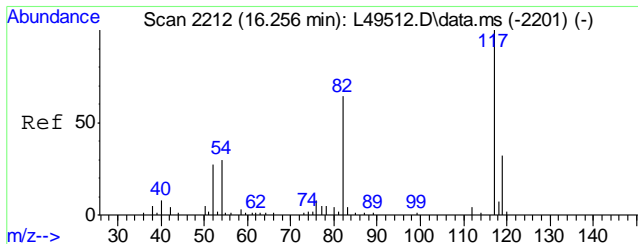
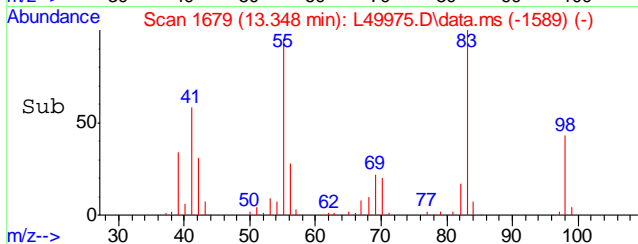
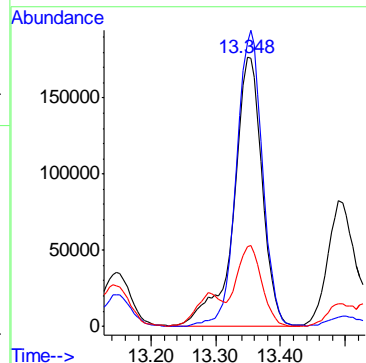
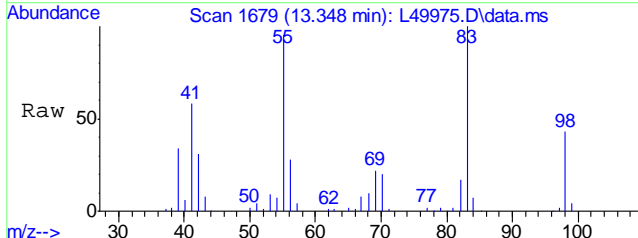




#48
Methylcyclohexane
Concen: 137.63 ug/Kg
RT: 13.348 min Scan# 1679
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

Tgt Ion: 55 Resp: 5427786

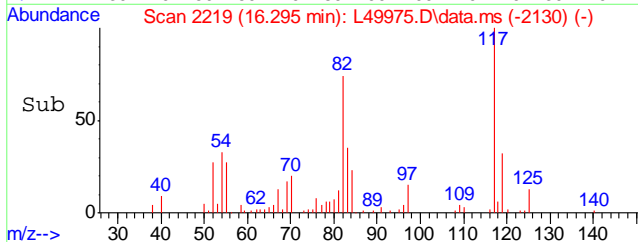
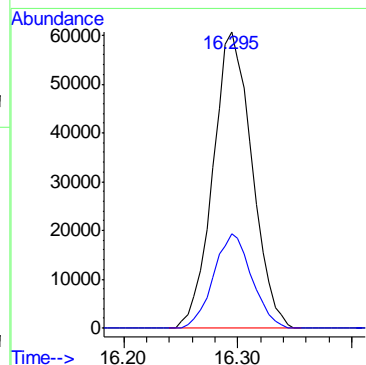
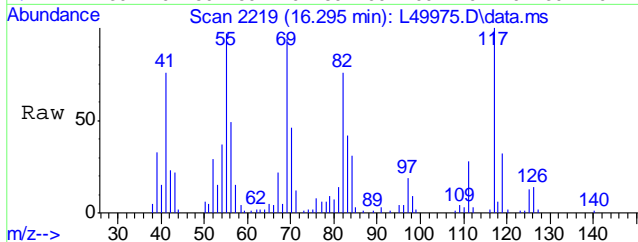
Ion	Ratio	Lower	Upper
55	100		
83	99.9	80.6	120.6
56	26.6	11.5	51.5

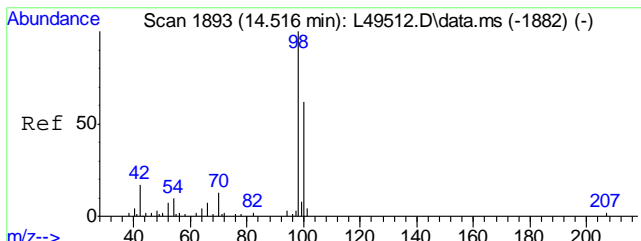


#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

Tgt Ion: 117 Resp: 1438757

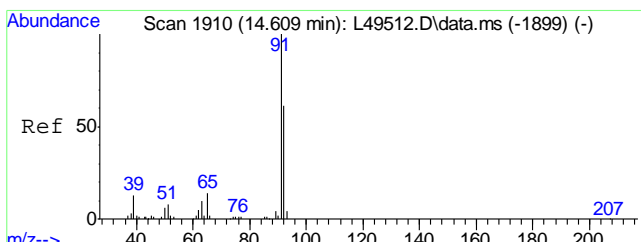
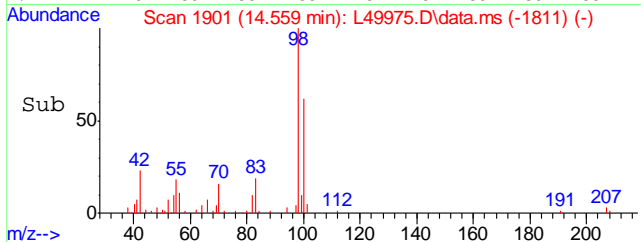
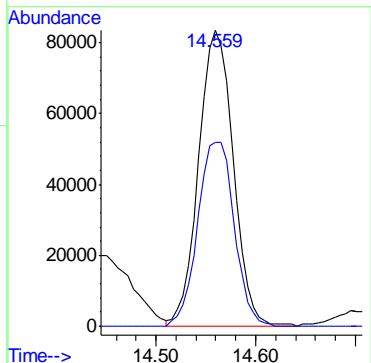
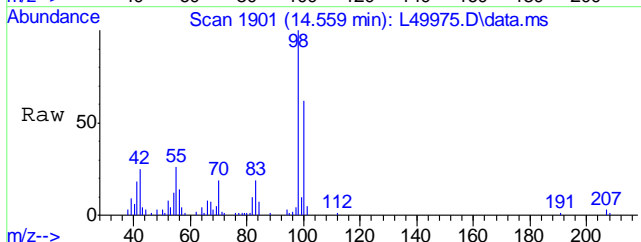
Ion	Ratio	Lower	Upper
117	100		
119	31.2	10.2	50.2





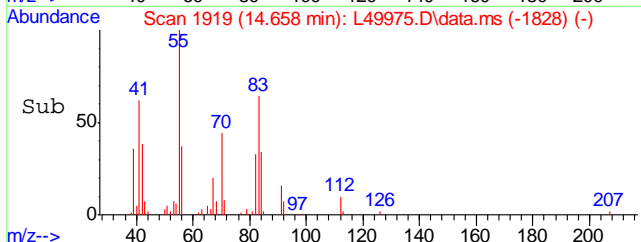
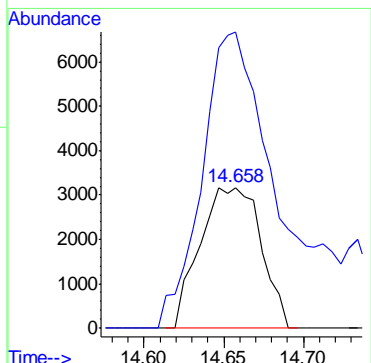
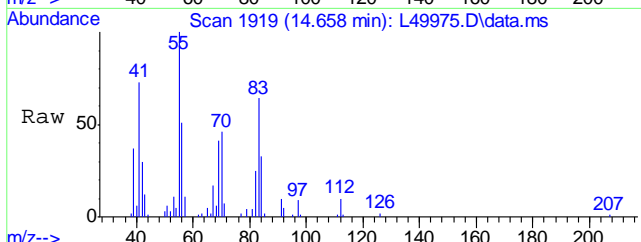
#56
Toluene-d8
Concen: 19.84 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

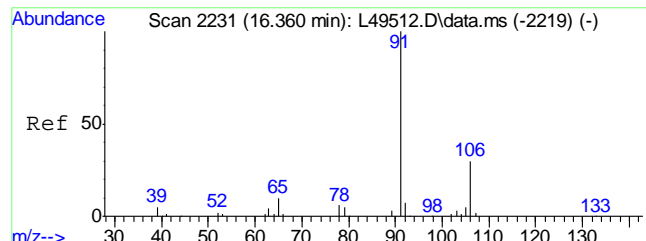
Tgt Ion: 98 Resp: 2016299
Ion Ratio Lower Upper
98 100
100 65.4 45.2 85.2



#57
Toluene
Concen: 1.18 ug/Kg
RT: 14.658 min Scan# 1919
Delta R.T. -0.005 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

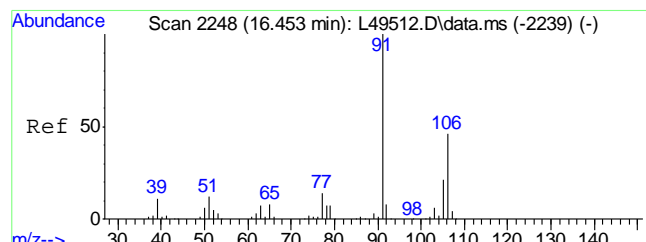
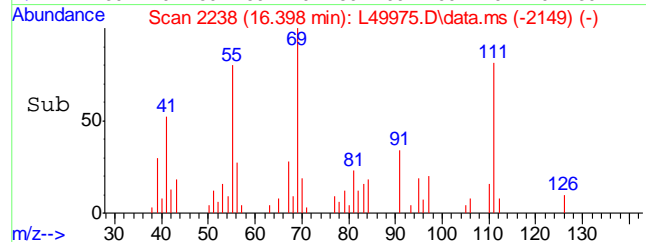
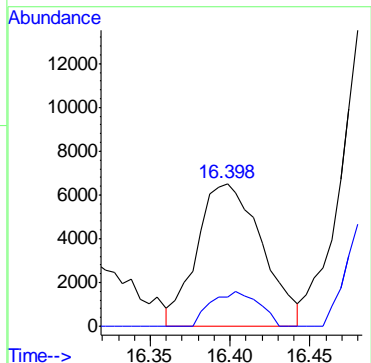
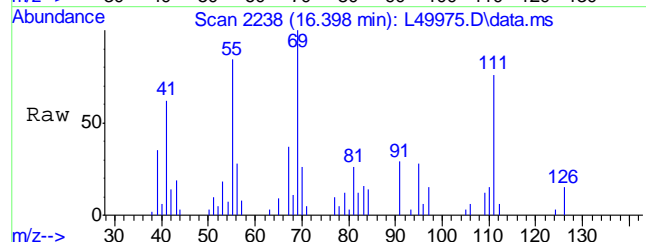
Tgt Ion: 92 Resp: 84309
Ion Ratio Lower Upper
92 100
91 260.9 149.2 189.2#





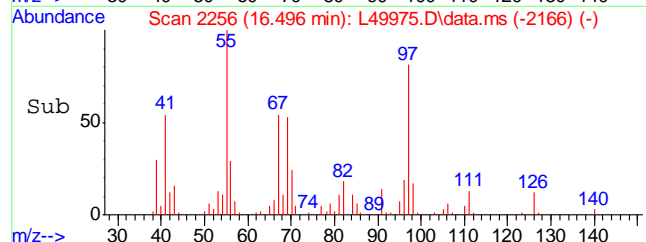
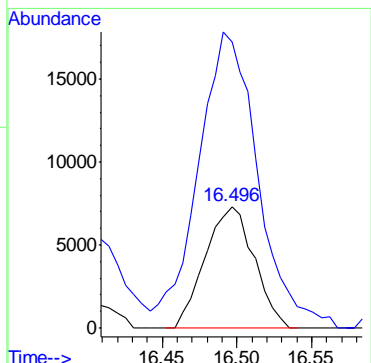
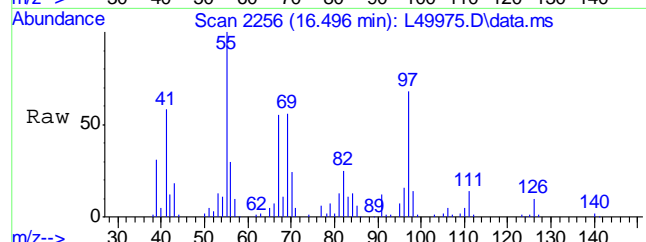
#67
Ethyl Benzene
Concen: 1.32 ug/Kg
RT: 16.398 min Scan# 2238
Delta R.T. -0.016 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

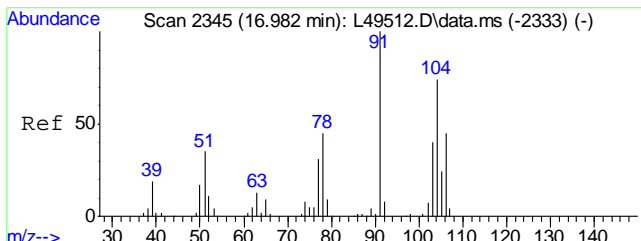
Tgt Ion	Resp	Lower	Upper
91	183749	100	
106	18.2	8.6	48.6



#68
Xylene, m+p
Concen: 3.36 ug/Kg
RT: 16.496 min Scan# 2256
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

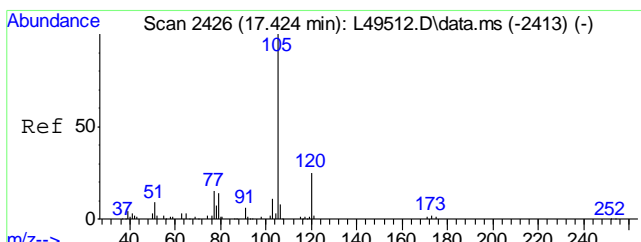
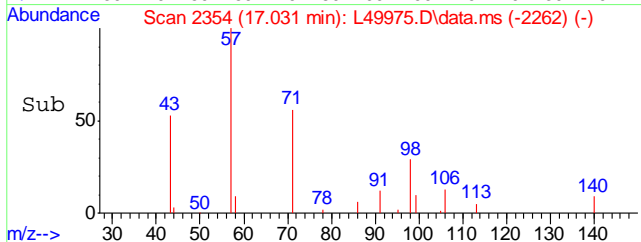
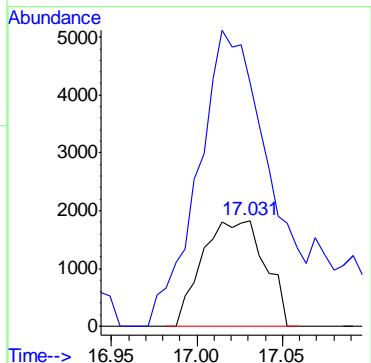
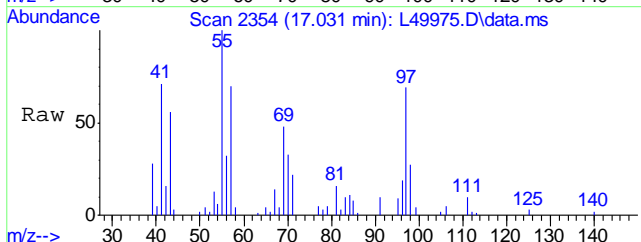
Tgt Ion	Resp	Lower	Upper
106	165720	100	
91	298.2	202.1	242.1#





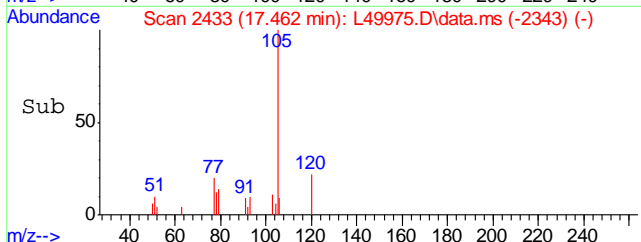
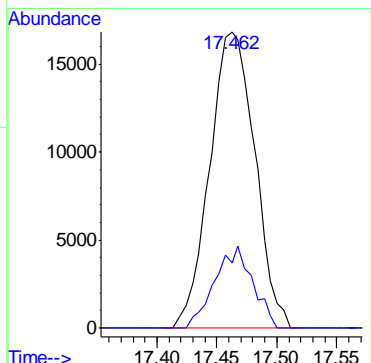
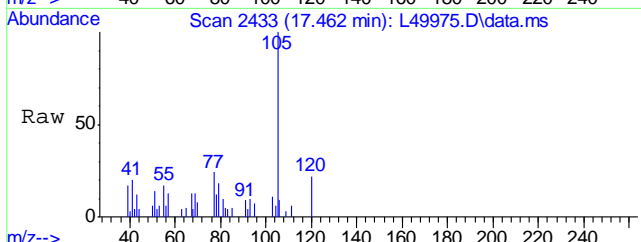
#69
Xylene, o
Concen: 0.93 ug/Kg
RT: 17.031 min Scan# 2354
Delta R.T. 0.000 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

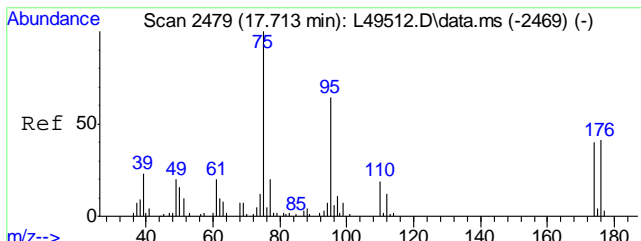
Tgt Ion	Ratio	Lower	Upper
106	100		
91	440.3	212.6	252.6#



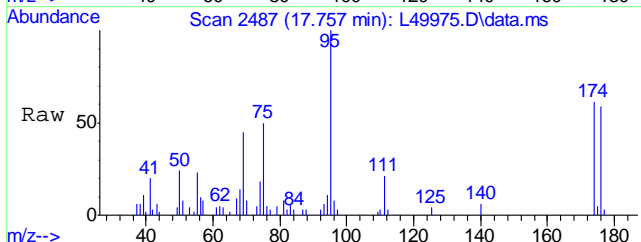
#73
Isopropylbenzene
Concen: 3.52 ug/Kg
RT: 17.462 min Scan# 2433
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.1	4.1	44.1



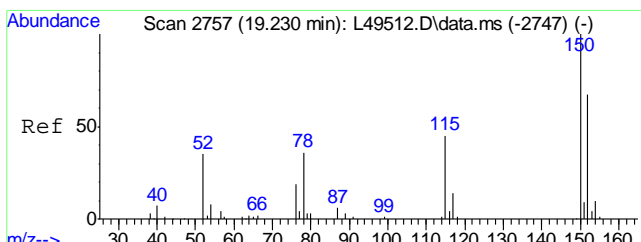
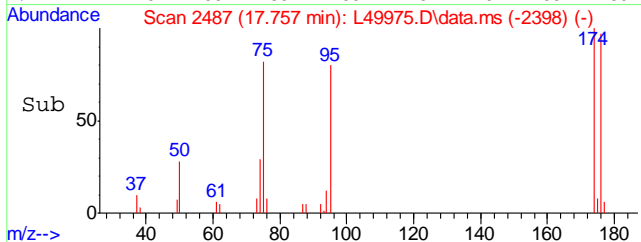
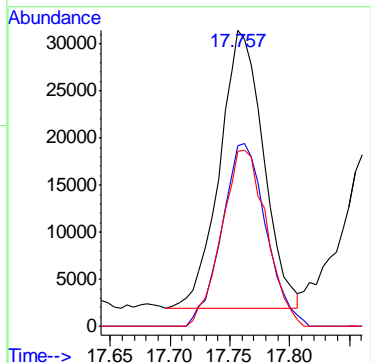


#74
 4-Bromofluorobenzene
 Concen: 17.80 ug/Kg
 RT: 17.757 min Scan# 2487
 Delta R.T. -0.016 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

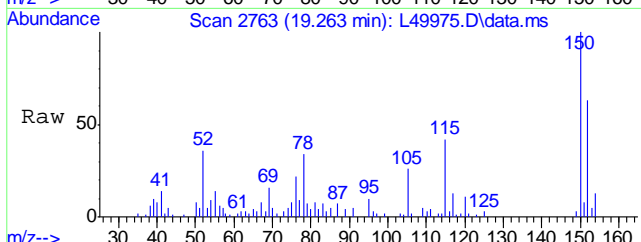


Tgt Ion: 95 Resp: 751828

Ion	Ratio	Lower	Upper
95	100		
174	66.6	41.6	81.6
176	64.7	39.6	79.6

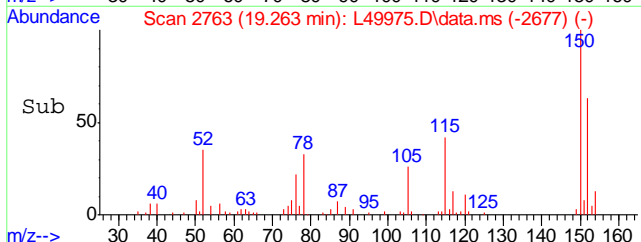
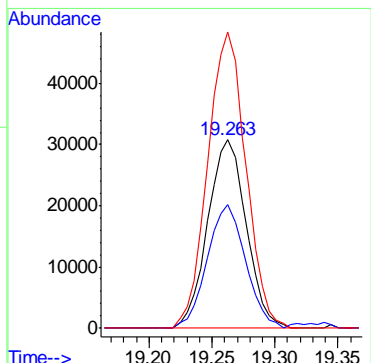


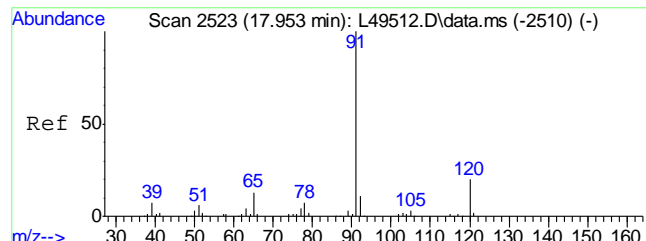
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm



Tgt Ion: 152 Resp: 650864

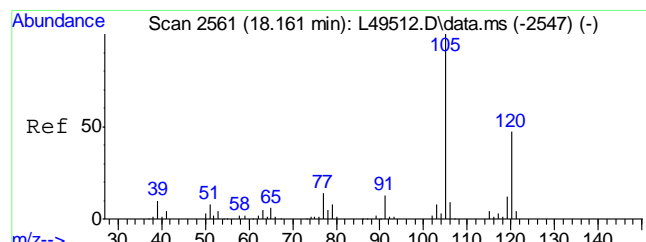
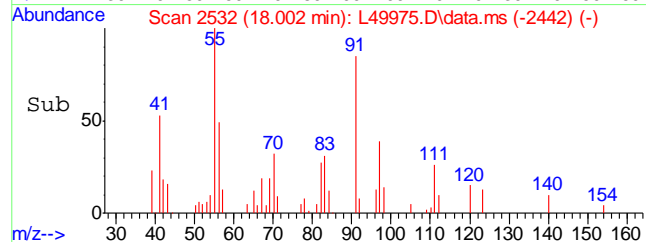
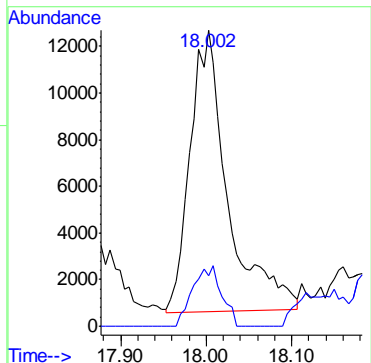
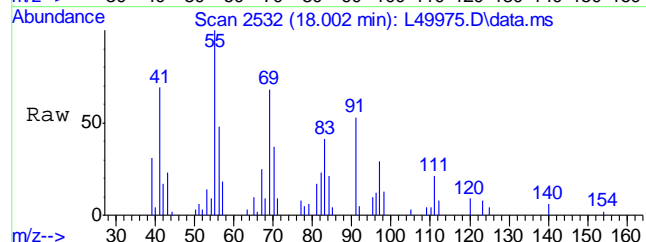
Ion	Ratio	Lower	Upper
152	100		
115	65.2	48.8	88.8
150	155.6	174.3	214.3#





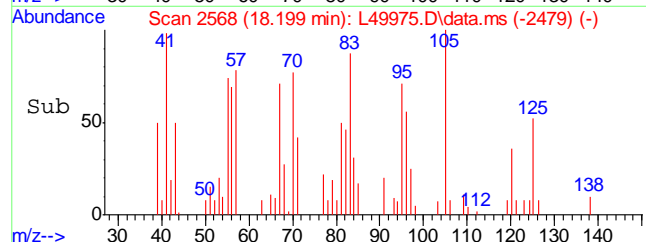
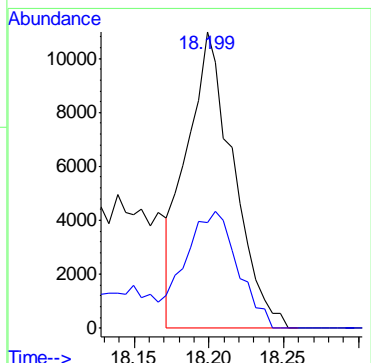
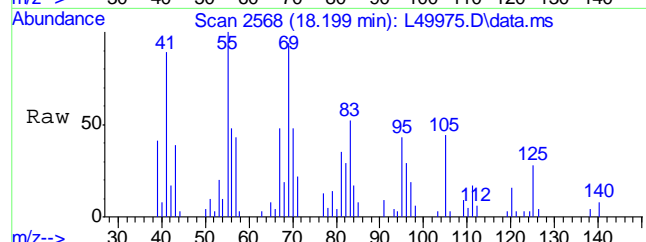
#79
 n-Propylbenzene
 Concen: 2.43 ug/Kg
 RT: 18.002 min Scan# 2532
 Delta R.T. -0.010 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

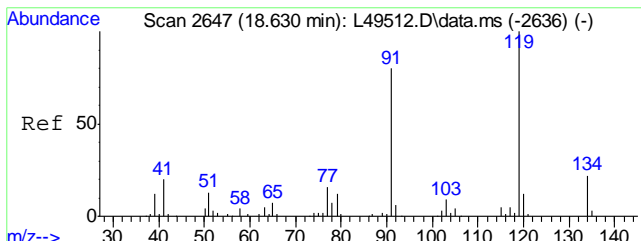
Tgt Ion: 91 Resp: 367476
 Ion Ratio Lower Upper
 91 100
 120 16.4 0.0 39.7



#81
 1,3,5-Trimethylbenzene
 Concen: 2.36 ug/Kg
 RT: 18.199 min Scan# 2568
 Delta R.T. -0.016 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

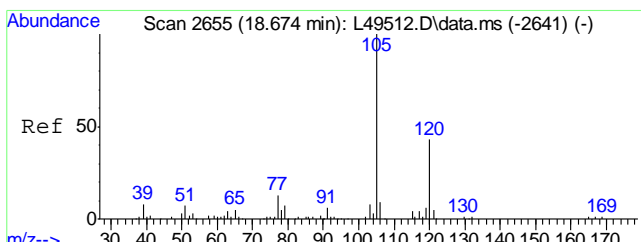
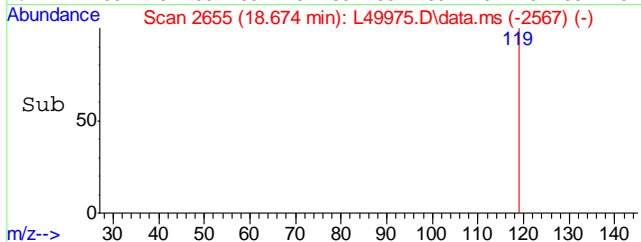
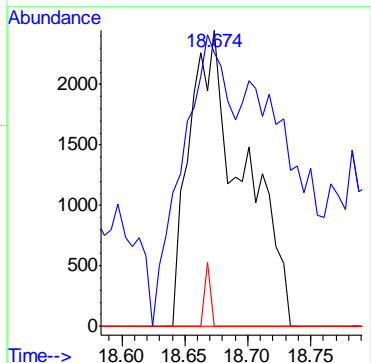
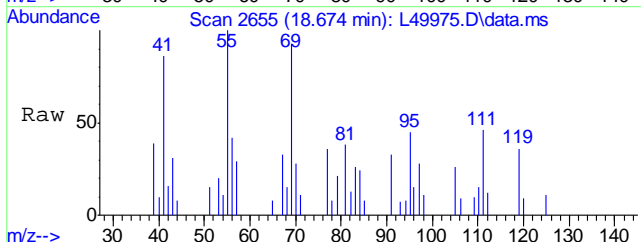
Tgt Ion: 105 Resp: 238977
 Ion Ratio Lower Upper
 105 100
 120 44.4 24.8 64.8





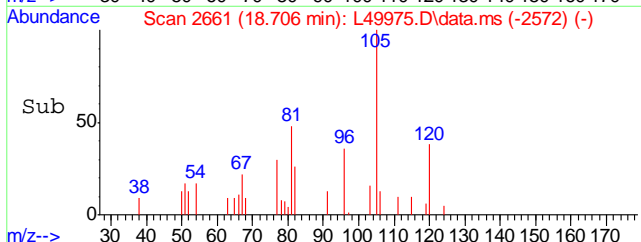
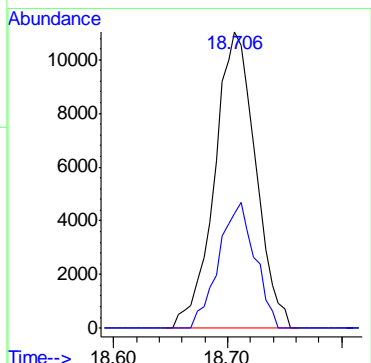
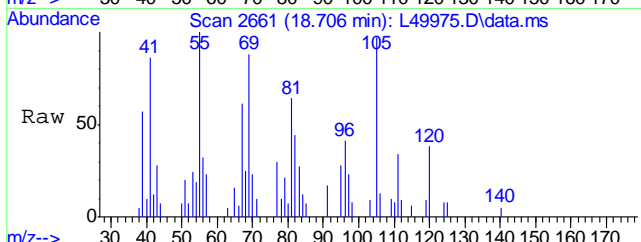
#84
tert-Butylbenzene
Concen: 0.76 ug/Kg
RT: 18.674 min Scan# 2655
Delta R.T. -0.019 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

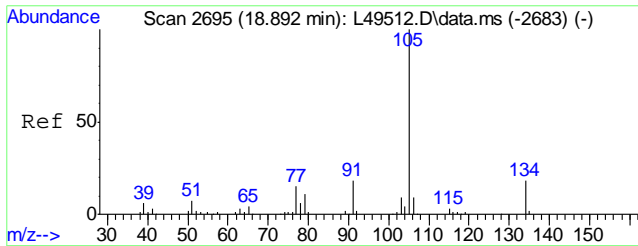
Tgt Ion	Resp	Lower	Upper
119	73740	100	
91	174.7	64.0	104.0#
134	0.0	0.0	38.8



#86
1,2,4-Trimethylbenzene
Concen: 2.55 ug/Kg
RT: 18.706 min Scan# 2661
Delta R.T. -0.016 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

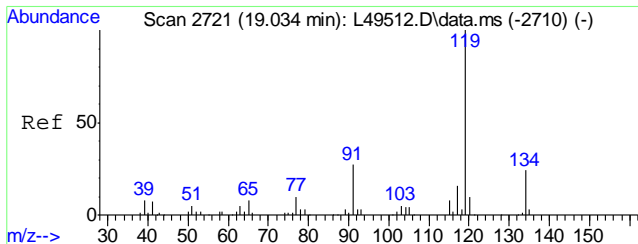
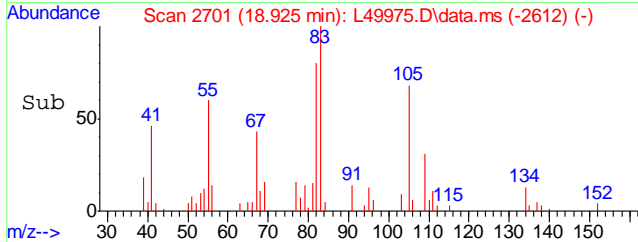
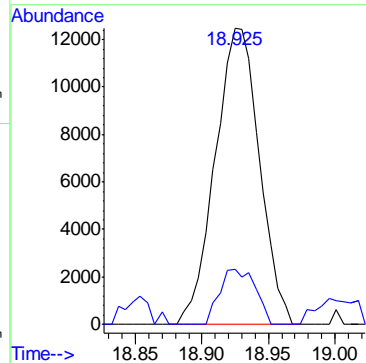
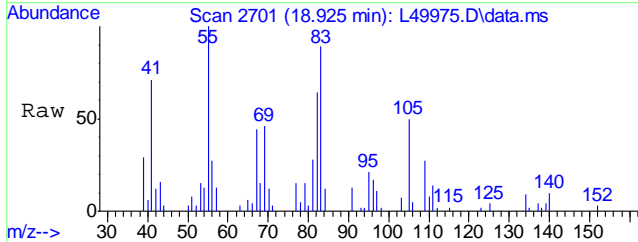
Tgt Ion	Resp	Lower	Upper
105	275098	100	
120	37.6	29.7	69.7





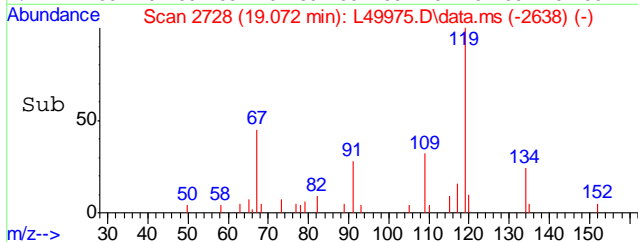
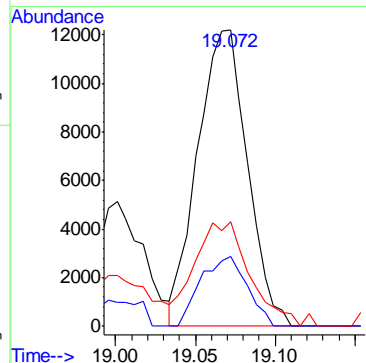
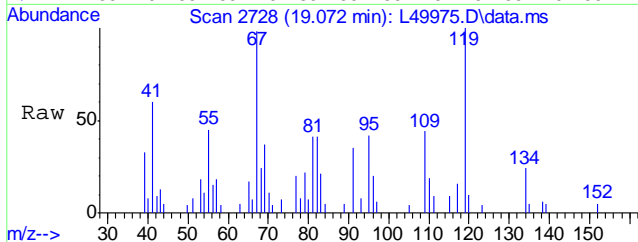
#87
 sec-Butylbenzene
 Concen: 2.27 ug/Kg
 RT: 18.925 min Scan# 2701
 Delta R.T. -0.016 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

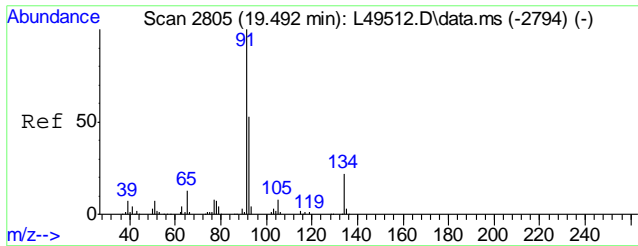
Tgt Ion	Resp	Lower	Upper
105	290384	100	
134	14.9	0.0	37.0



#88
 p-Isopropyltoluene
 Concen: 2.55 ug/Kg
 RT: 19.072 min Scan# 2728
 Delta R.T. -0.010 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

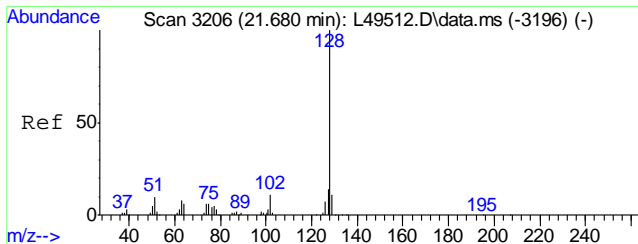
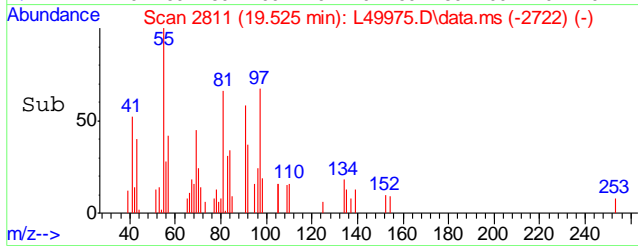
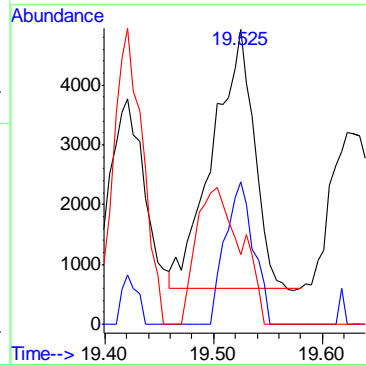
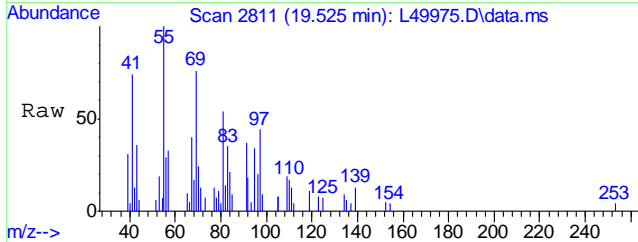
Tgt Ion	Resp	Lower	Upper
119	265404	100	
134	21.9	3.9	43.9
91	39.5	8.5	48.5





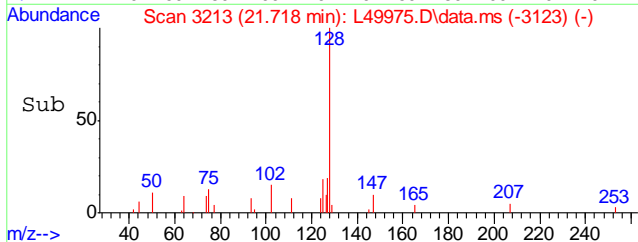
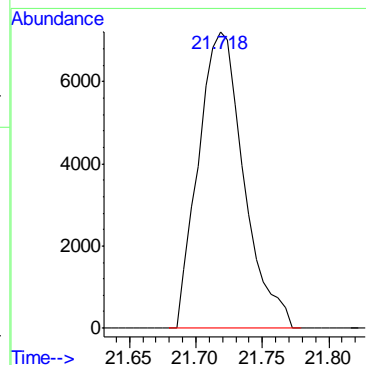
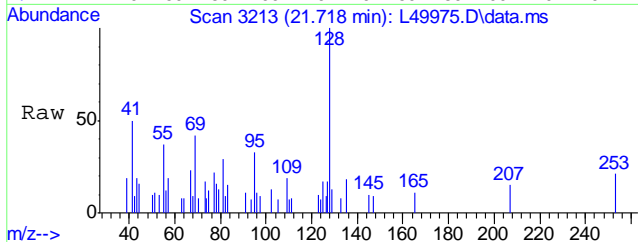
#92
n-Butylbenzene
Concen: 1.02 ug/Kg
RT: 19.525 min Scan# 2811
Delta R.T. -0.016 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

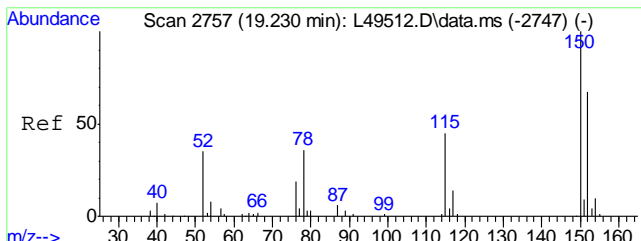
Tgt Ion	Resp	Lower	Upper
91	113972		
92	38.1	35.1	75.1
134	56.6	1.1	41.1#



#97
Naphthalene
Concen: 1.73 ug/Kg
RT: 21.718 min Scan# 3213
Delta R.T. -0.010 min
Lab File: L49975.D
Acq: 12 Jul 2016 2:15 pm

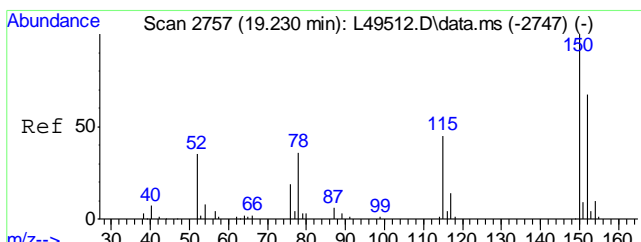
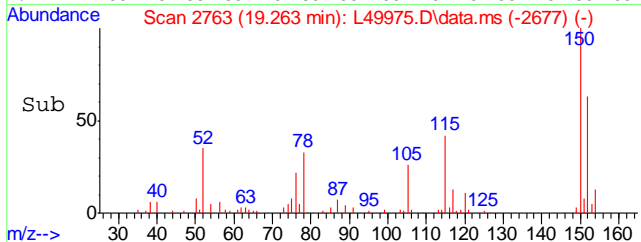
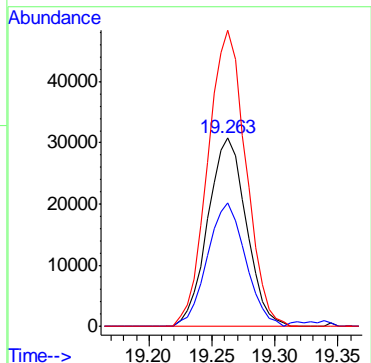
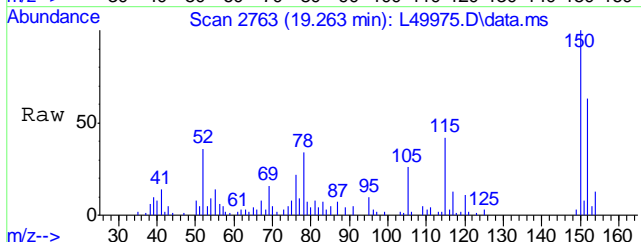
Tgt Ion:128 Resp: 171192





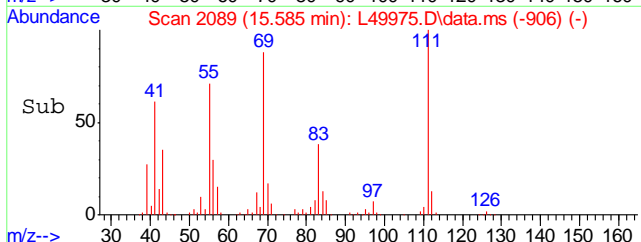
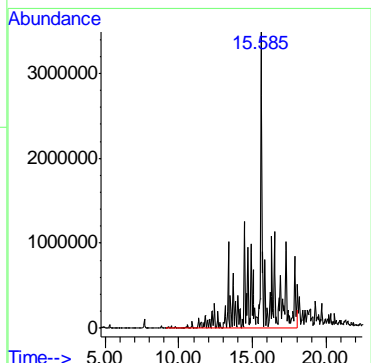
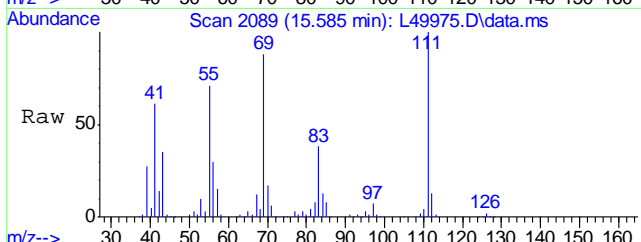
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	65.2	41.6	81.6
150	155.6	176.9	216.9#



#100
 TPH-GRO (C6-C10)
 Concen: 5218.20 ug/Kg m
 RT: 15.585 min Scan# 2089
 Delta R.T. 1.060 min
 Lab File: L49975.D
 Acq: 12 Jul 2016 2:15 pm

Tgt Ion:TIC Resp:891905569



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49976.D
 Acq On : 12 Jul 2016 2:45 pm
 Operator : johannat
 Sample : C46435-2R
 Misc : MS1912,VL1499,5.13,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 10:59:51 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

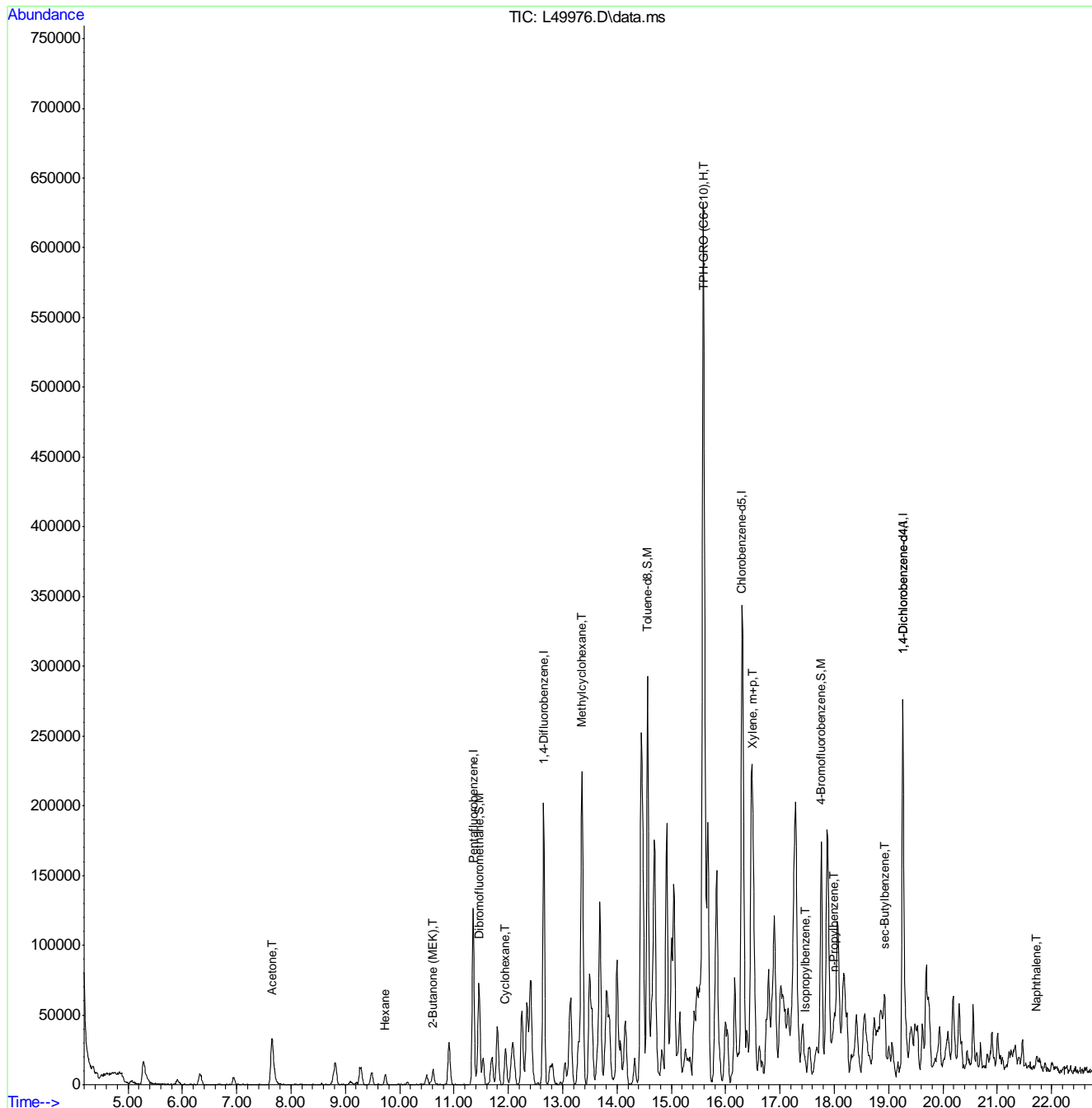
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.357	168	1146975	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.655	114	1971942	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1686168	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	789750	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	789750	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	633364	18.44	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery	=	92.20%	
56) Toluene-d8	14.565	98	2305306	19.36	ug/Kg	0.00
Spiked Amount	20.000	Range 87 - 113	Recovery	=	96.80%	
74) 4-Bromofluorobenzene	17.757	95	925247	18.70	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery	=	93.50%	
Target Compounds						
						Qvalue
11) Acetone	7.657	58	279310	85.51	ug/Kg#	47
24) Hexane	9.731	57	54347	1.50	ug/Kg	97
30) 2-Butanone (MEK)	10.604	72	40373	9.39	ug/Kg	99
38) Cyclohexane	11.946	56	207429	4.01	ug/Kg	99
48) Methylcyclohexane	13.354	55	1258124	27.25	ug/Kg	96
68) Xylene, m+p	16.496	106	28465	0.49	ug/Kg#	36
73) Isopropylbenzene	17.468	105	170552	1.16	ug/Kg	99
79) n-Propylbenzene	17.997	91	153140	0.83	ug/Kg	91
87) sec-Butylbenzene	18.925	105	112082	0.72	ug/Kg	89
97) Naphthalene	21.724	128	91492	0.76	ug/Kg	100
100) TPH-GRO (C6-C10)	15.591	TIC	205932422m	932.31	ug/Kg	

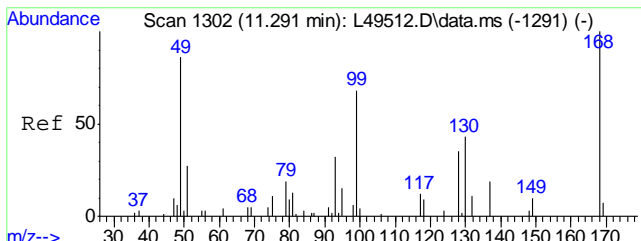
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

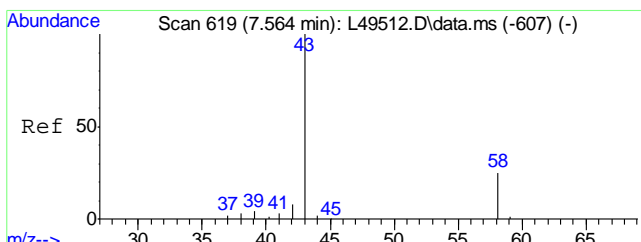
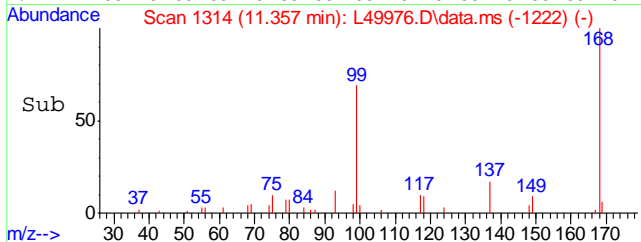
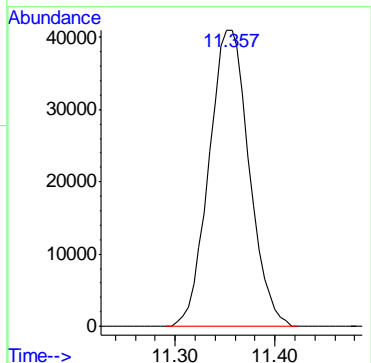
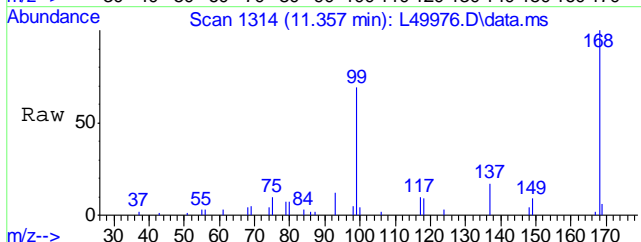
Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49976.D
 Acq On : 12 Jul 2016 2:45 pm
 Operator : johannat
 Sample : C46435-2R
 Misc : MS1912,VL1499,5.13,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 10:59:51 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

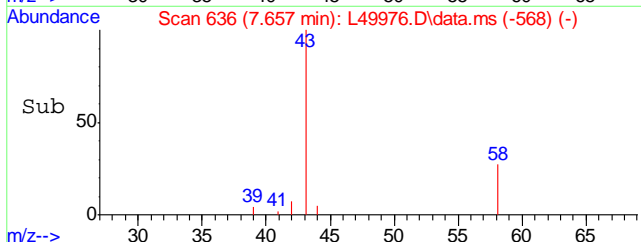
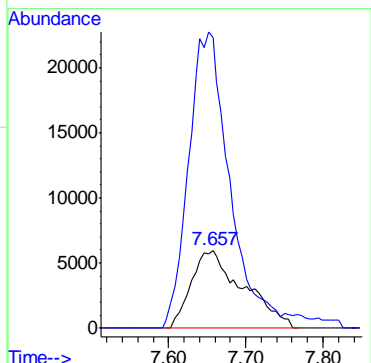
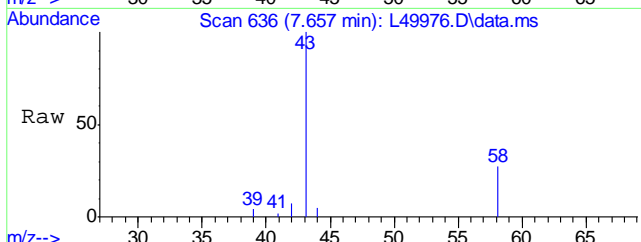


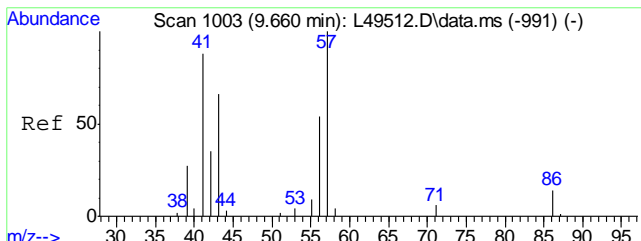


#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.357 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm
 Tgt Ion:168 Resp: 1146975



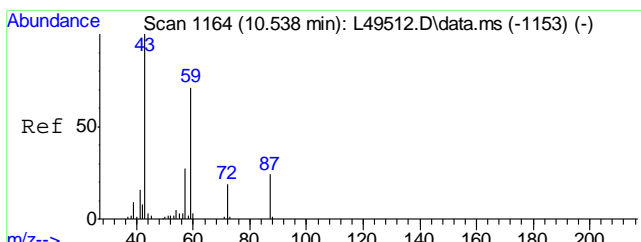
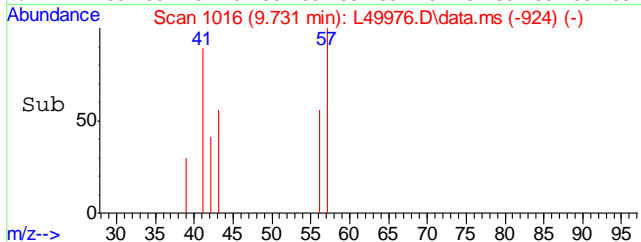
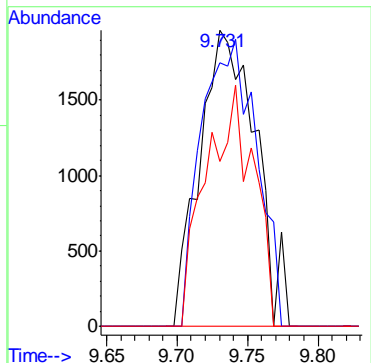
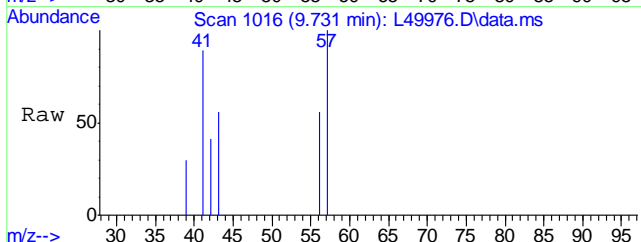
#11
 Acetone
 Concen: 85.51 ug/Kg
 RT: 7.657 min Scan# 636
 Delta R.T. 0.022 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm
 Tgt Ion: 58 Resp: 279310
 Ion Ratio Lower Upper
 58 100
 43 312.4 428.1 468.1#





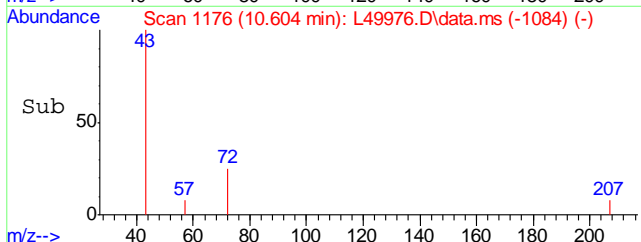
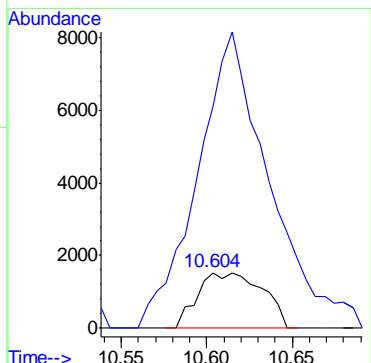
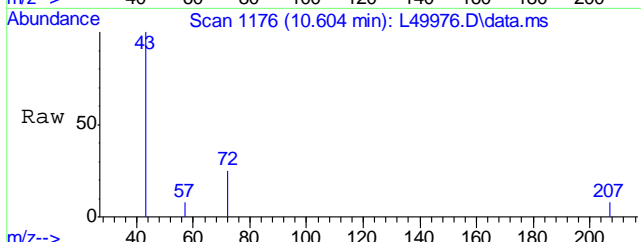
#24
Hexane
Concen: 1.50 ug/Kg
RT: 9.731 min Scan# 1016
Delta R.T. 0.000 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

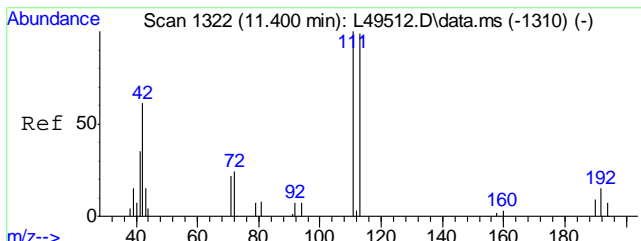
Tgt Ion	Resp	Lower	Upper
57	54347		
41	95.6	73.8	110.8
43	69.2	56.6	84.8



#30
2-Butanone (MEK)
Concen: 9.39 ug/Kg
RT: 10.604 min Scan# 1176
Delta R.T. 0.000 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

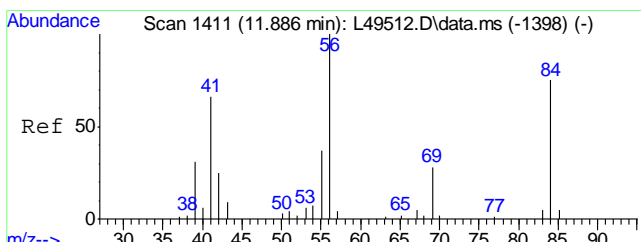
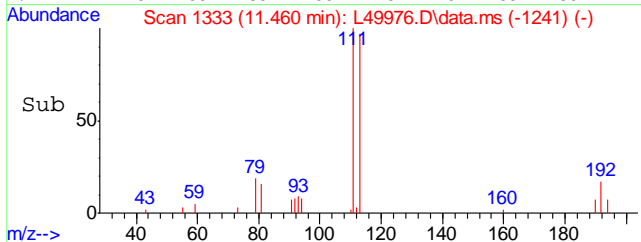
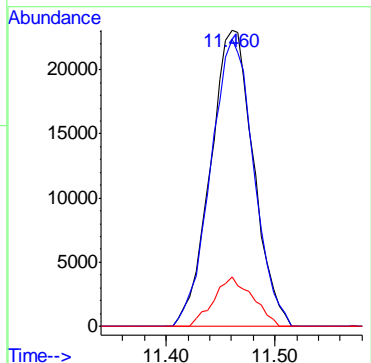
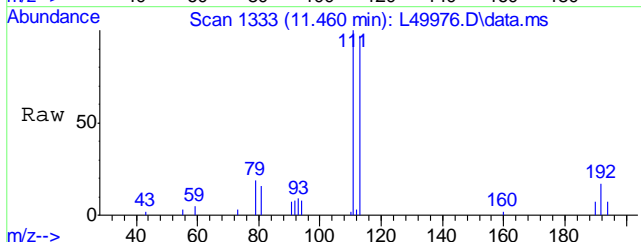
Tgt Ion	Resp	Lower	Upper
72	40373		
43	590.1	573.4	613.4





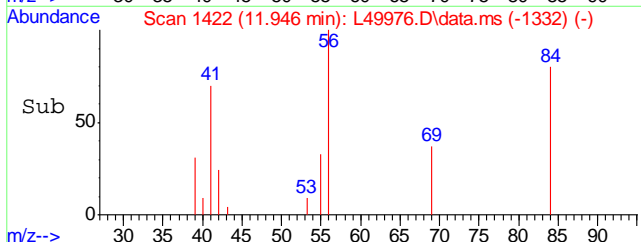
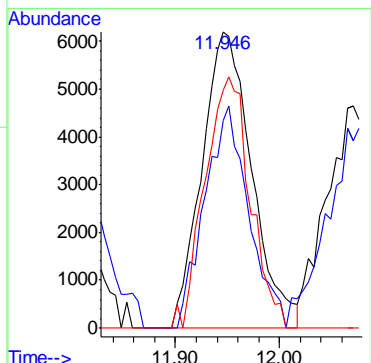
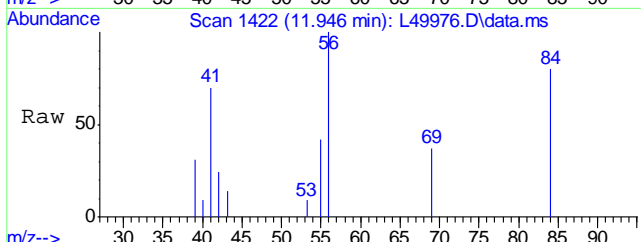
#36
 Dibromofluoromethane
 Concen: 18.44 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

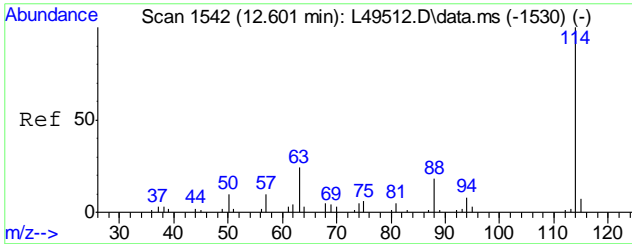
Tgt Ion	Resp	Lower	Upper
111	100		
113	97.1	78.6	118.6
192	15.0	0.0	34.1



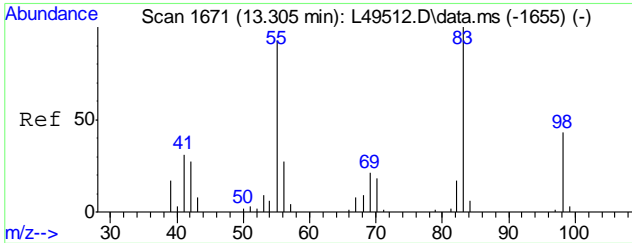
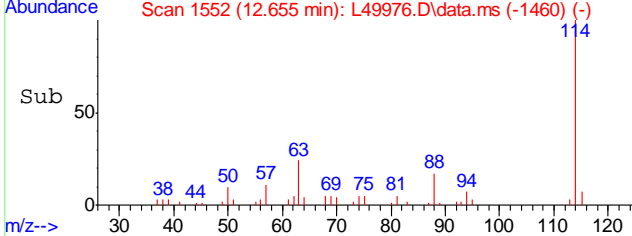
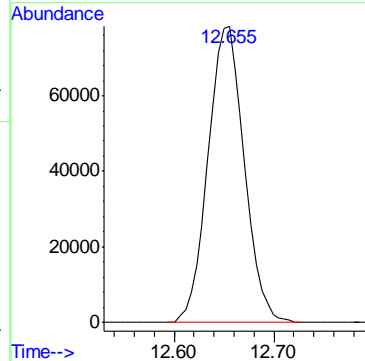
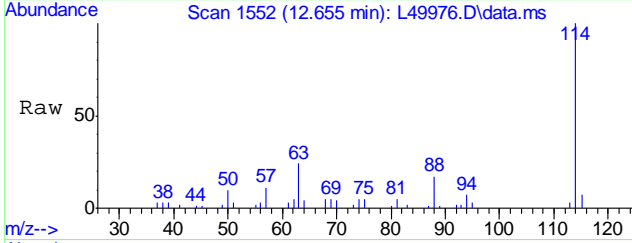
#38
 Cyclohexane
 Concen: 4.01 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.010 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

Tgt Ion	Resp	Lower	Upper
56	100		
41	66.1	53.7	80.5
84	76.9	60.5	90.7





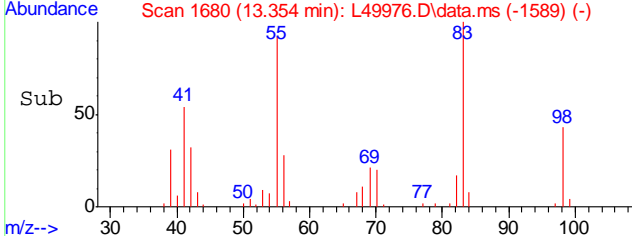
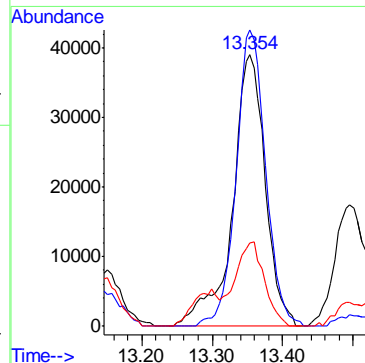
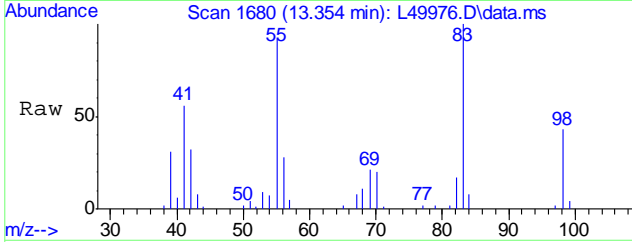
#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.655 min Scan# 1552
 Delta R.T. 0.000 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm
 Tgt Ion:114 Resp: 1971942

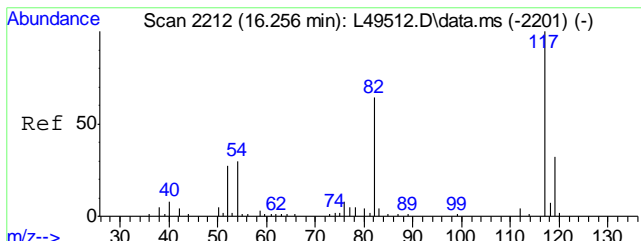


#48
 Methylcyclohexane
 Concen: 27.25 ug/Kg
 RT: 13.354 min Scan# 1680
 Delta R.T. -0.005 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

Tgt Ion: 55 Resp: 1258124

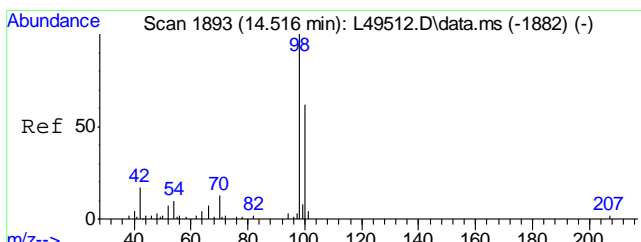
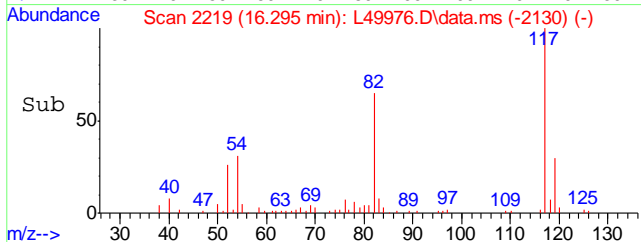
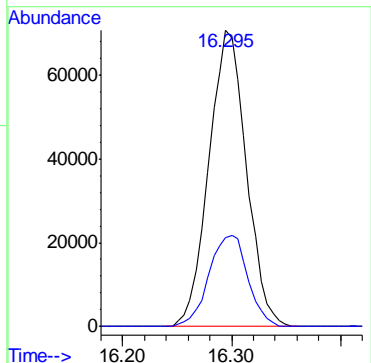
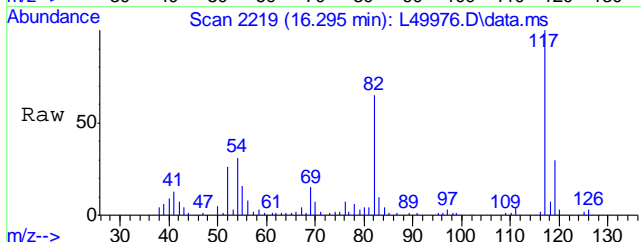
Ion	Ratio	Lower	Upper
55	100		
83	98.2	80.6	120.6
56	27.3	11.5	51.5





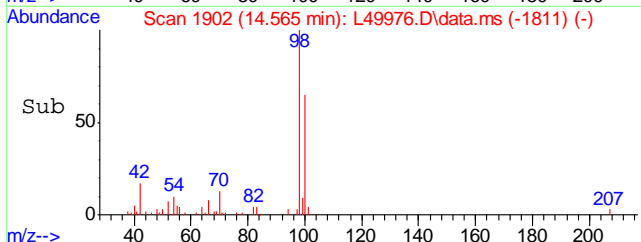
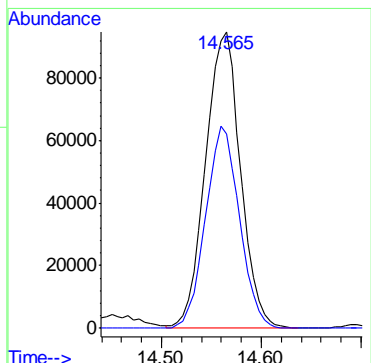
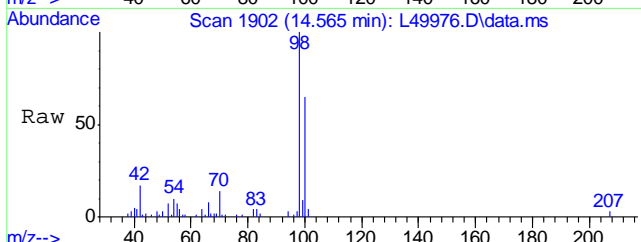
#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

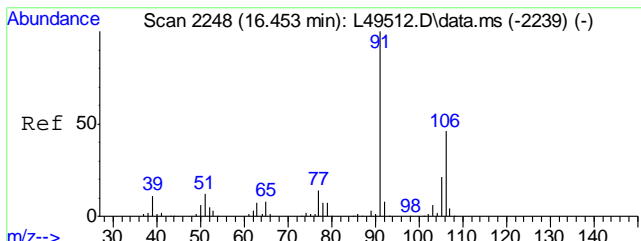
Tgt Ion	Resp	Lower	Upper
117	1686168		
117	100		
119	31.9	10.2	50.2



#56
Toluene-d8
Concen: 19.36 ug/Kg
RT: 14.565 min Scan# 1902
Delta R.T. -0.005 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

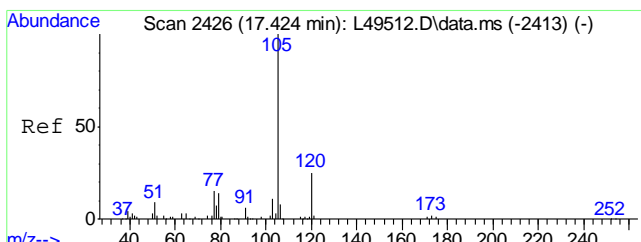
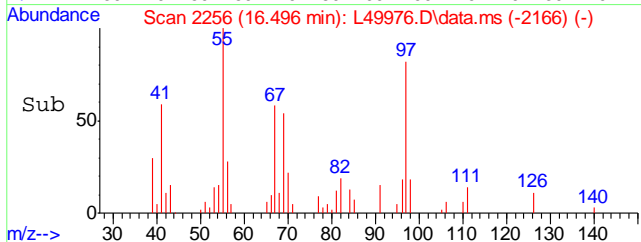
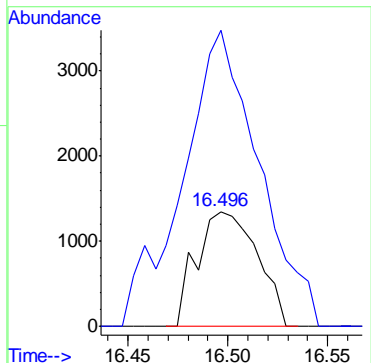
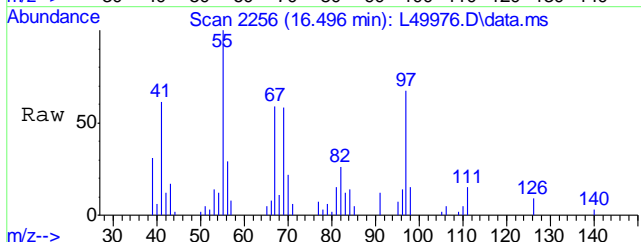
Tgt Ion	Resp	Lower	Upper
98	2305306		
98	100		
100	65.8	45.2	85.2





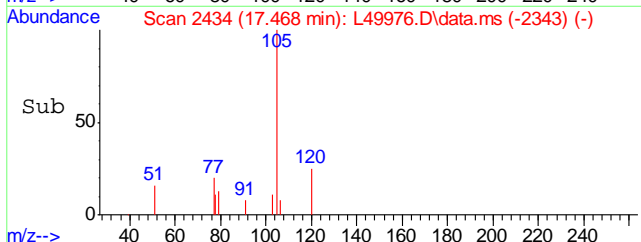
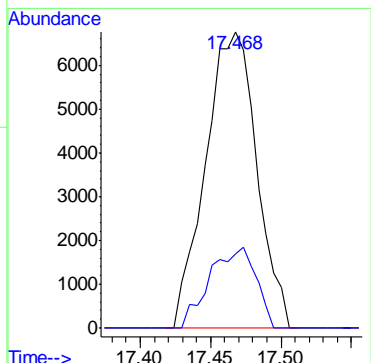
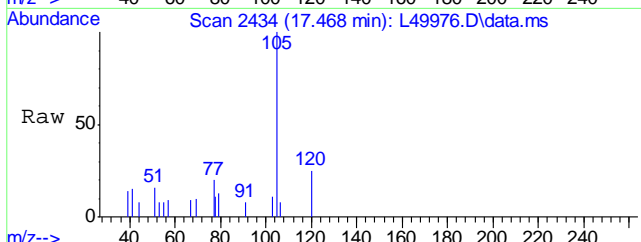
#68
Xylene, m+p
Concen: 0.49 ug/Kg
RT: 16.496 min Scan# 2256
Delta R.T. -0.010 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

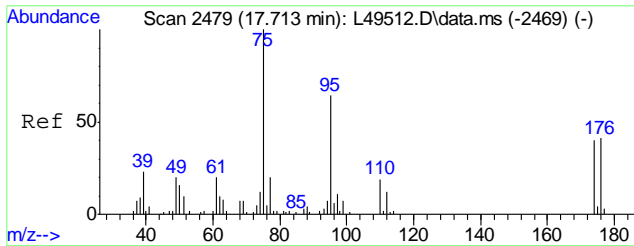
Tgt Ion	Resp	Lower	Upper
106	28465		
106	100		
91	325.5	202.1	242.1#



#73
Isopropylbenzene
Concen: 1.16 ug/Kg
RT: 17.468 min Scan# 2434
Delta R.T. -0.005 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

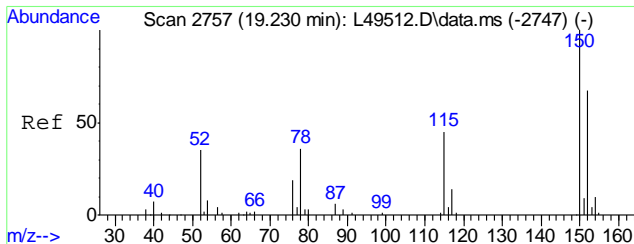
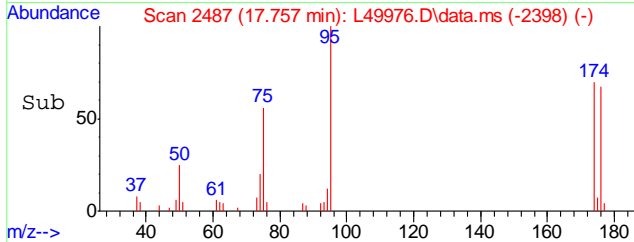
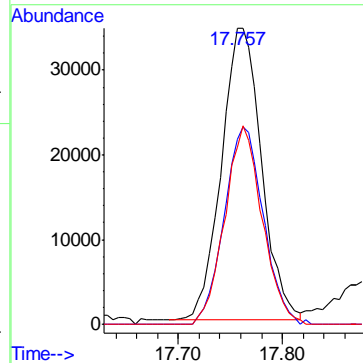
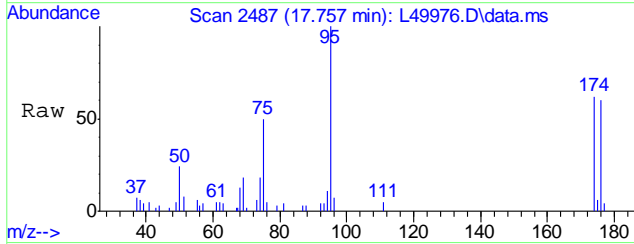
Tgt Ion	Resp	Lower	Upper
105	170552		
105	100		
120	24.7	4.1	44.1





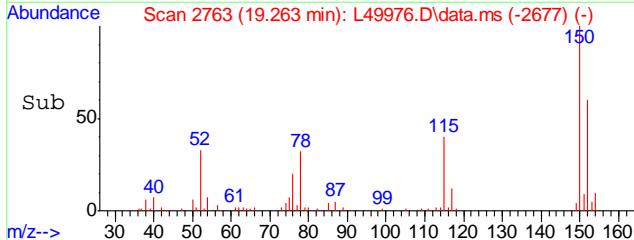
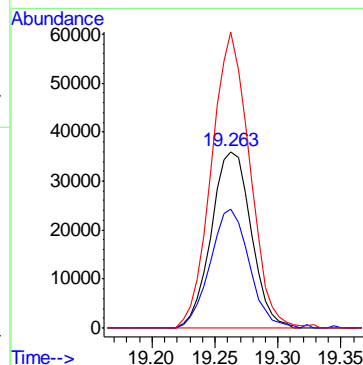
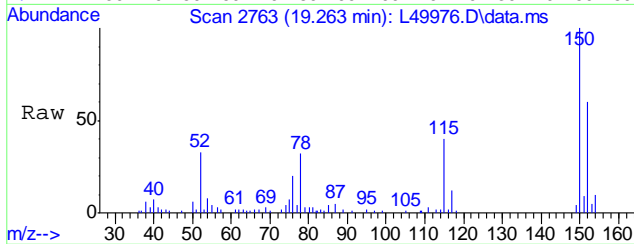
#74
4-Bromofluorobenzene
Concen: 18.70 ug/Kg
RT: 17.757 min Scan# 2487
Delta R.T. -0.016 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

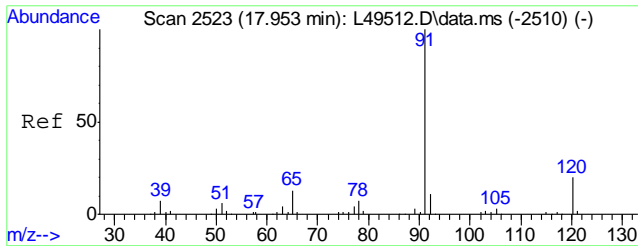
Tgt Ion	Resp	Lower	Upper
95	925247		
174	66.0	41.6	81.6
176	63.6	39.6	79.6



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

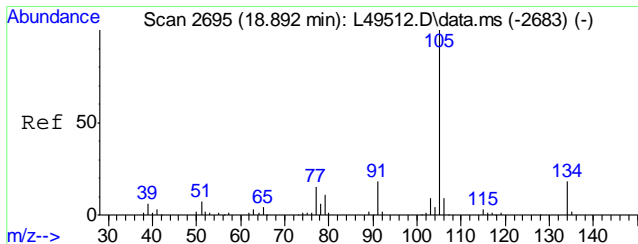
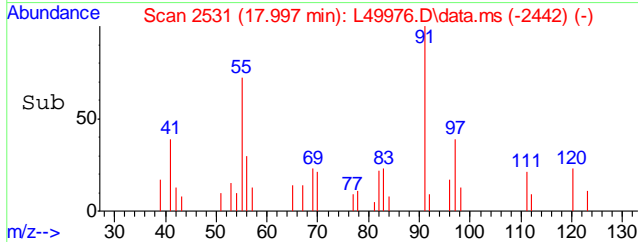
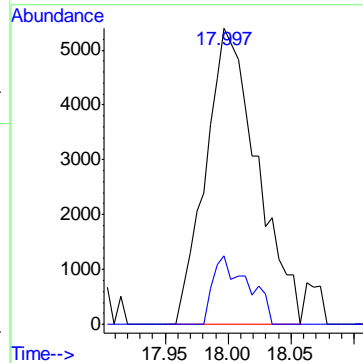
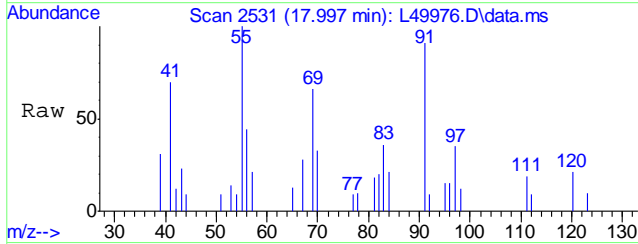
Tgt Ion	Resp	Lower	Upper
152	789750		
152	100		
115	66.2	48.8	88.8
150	160.8	174.3	214.3#





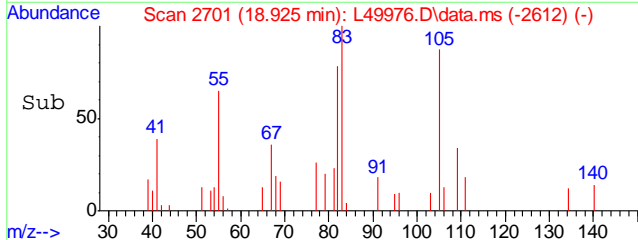
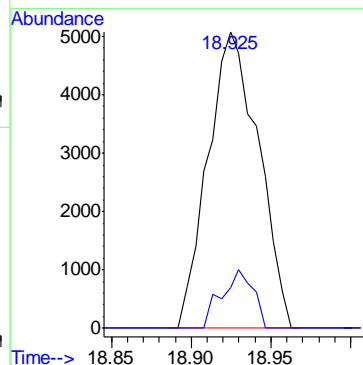
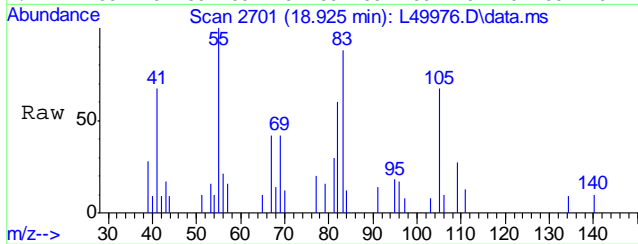
#79
 n-Propylbenzene
 Concen: 0.83 ug/Kg
 RT: 17.997 min Scan# 2531
 Delta R.T. -0.016 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

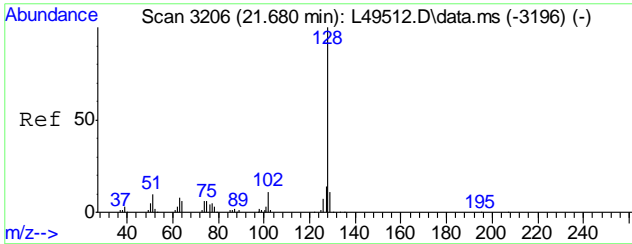
Tgt Ion: 91 Resp: 153140
 Ion Ratio Lower Upper
 91 100
 120 15.7 0.0 39.7



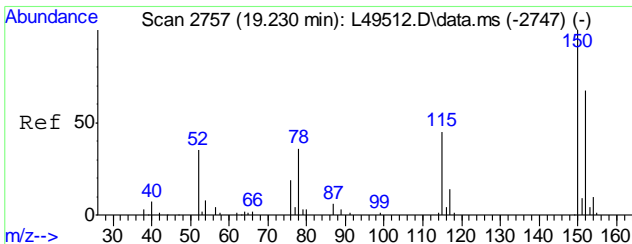
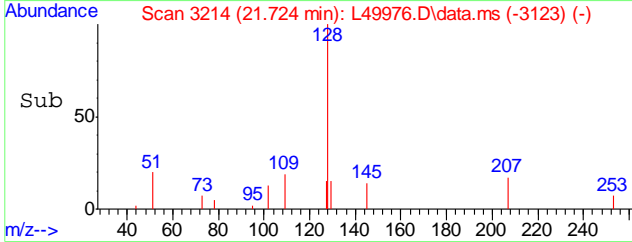
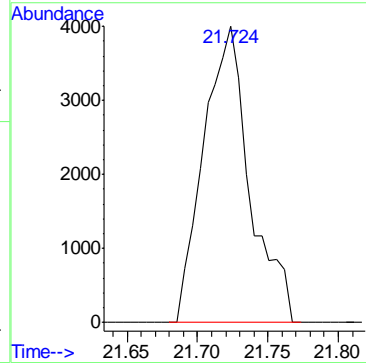
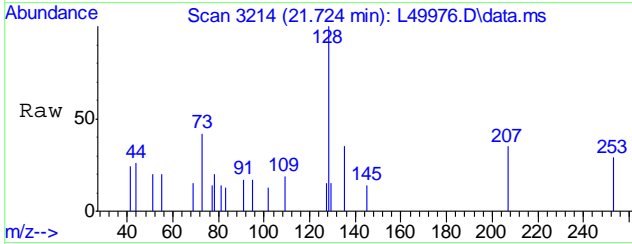
#87
 sec-Butylbenzene
 Concen: 0.72 ug/Kg
 RT: 18.925 min Scan# 2701
 Delta R.T. -0.016 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

Tgt Ion: 105 Resp: 112082
 Ion Ratio Lower Upper
 105 100
 134 12.1 0.0 37.0





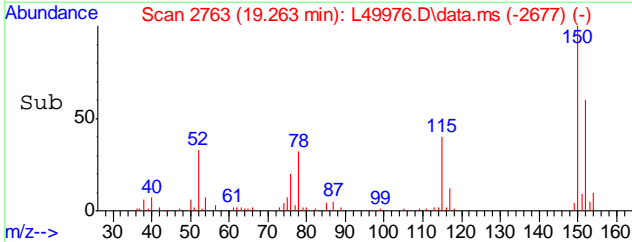
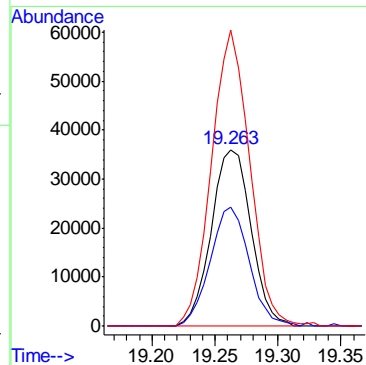
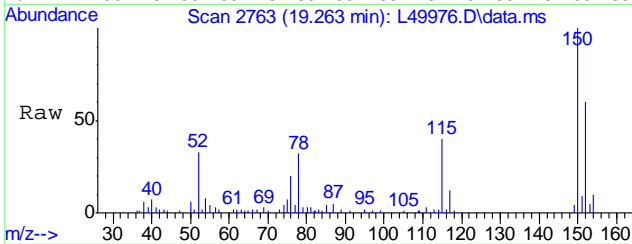
#97
Naphthalene
Concen: 0.76 ug/Kg
RT: 21.724 min Scan# 3214
Delta R.T. -0.005 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm
Tgt Ion:128 Resp: 91492

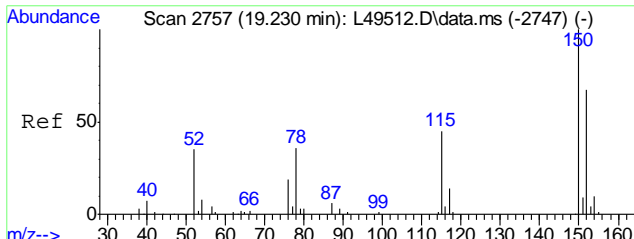


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

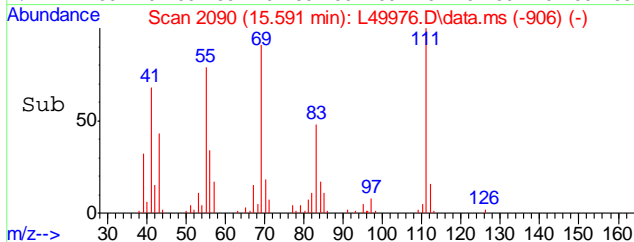
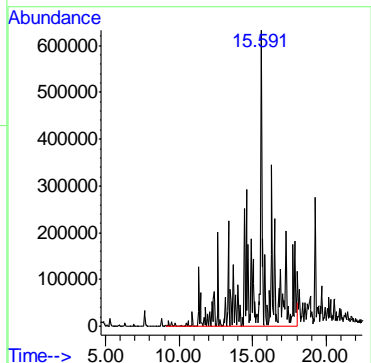
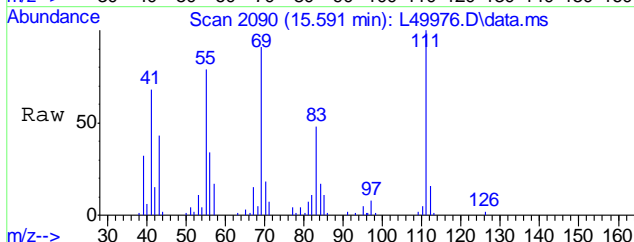
Tgt Ion:152 Resp: 789750

Ion	Ratio	Lower	Upper
152	100		
115	66.2	41.6	81.6
150	160.8	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 932.31 ug/Kg m
RT: 15.591 min Scan# 2090
Delta R.T. 1.065 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm
Tgt Ion:TIC Resp:205932422



6.1.3
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49976.D
 Acq On : 12 Jul 2016 2:45 pm
 Operator : johannat
 Sample : C46435-2R
 Misc : MS1912,VL1499,5.13,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 10:59:51 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

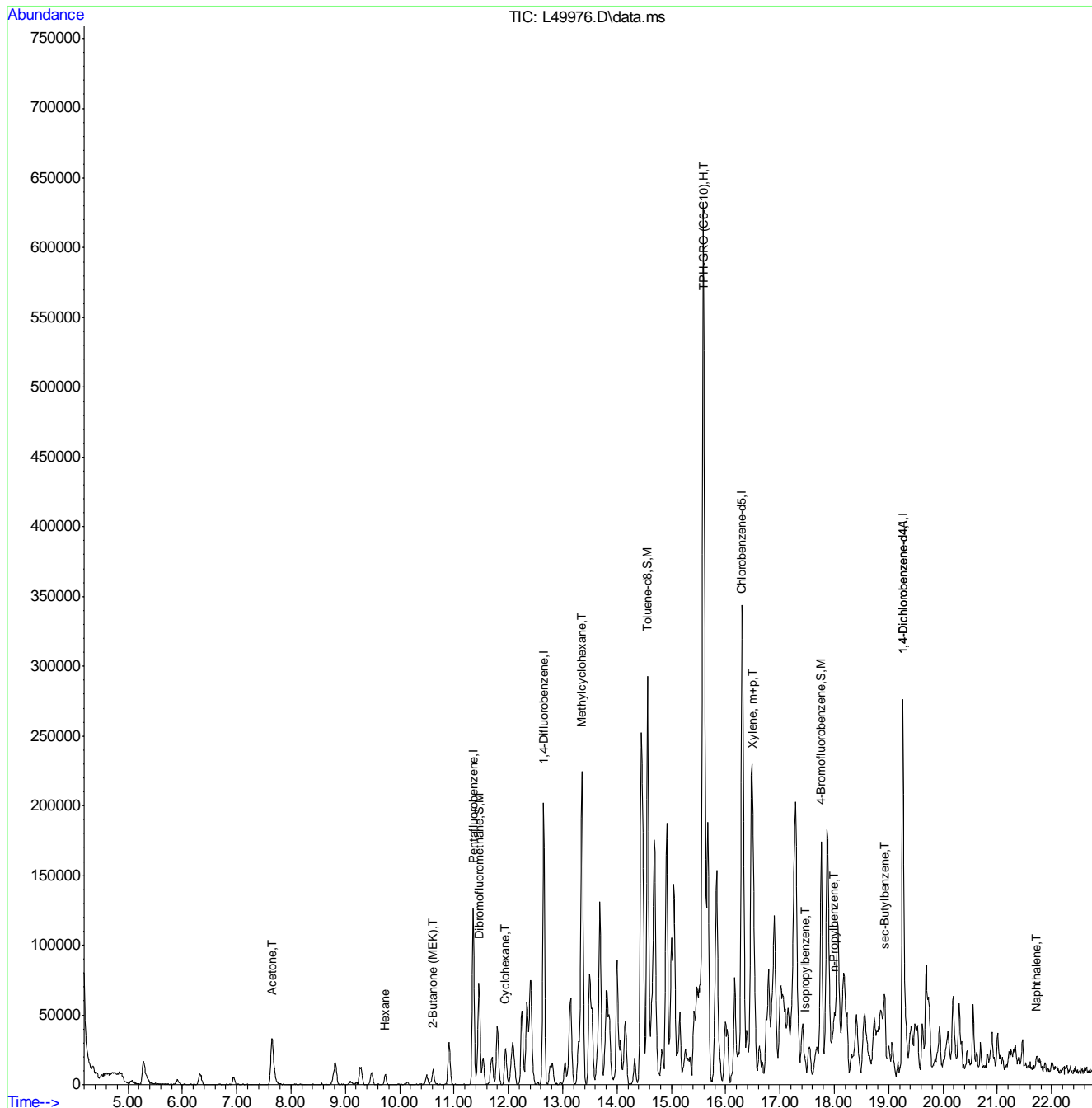
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.357	168	1146975	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.655	114	1971942	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1686168	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	789750	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	789750	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	633364	18.44	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	92.20%		
56) Toluene-d8	14.565	98	2305306	19.36	ug/Kg	0.00
Spiked Amount	20.000	Range 87 - 113	Recovery =	96.80%		
74) 4-Bromofluorobenzene	17.757	95	925247	18.70	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery =	93.50%		
Target Compounds						
						Qvalue
11) Acetone	7.657	58	279310	85.51	ug/Kg#	47
24) Hexane	9.731	57	54347	1.50	ug/Kg	97
30) 2-Butanone (MEK)	10.604	72	40373	9.39	ug/Kg	99
38) Cyclohexane	11.946	56	207429	4.01	ug/Kg	99
48) Methylcyclohexane	13.354	55	1258124	27.25	ug/Kg	96
68) Xylene, m+p	16.496	106	28465	0.49	ug/Kg#	36
73) Isopropylbenzene	17.468	105	170552	1.16	ug/Kg	99
79) n-Propylbenzene	17.997	91	153140	0.83	ug/Kg	91
87) sec-Butylbenzene	18.925	105	112082	0.72	ug/Kg	89
97) Naphthalene	21.724	128	91492	0.76	ug/Kg	100
100) TPH-GRO (C6-C10)	15.591	TIC	205932422m	932.31	ug/Kg	

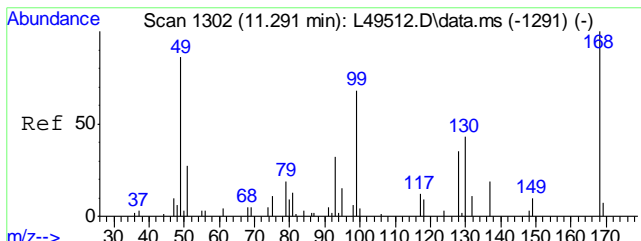
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

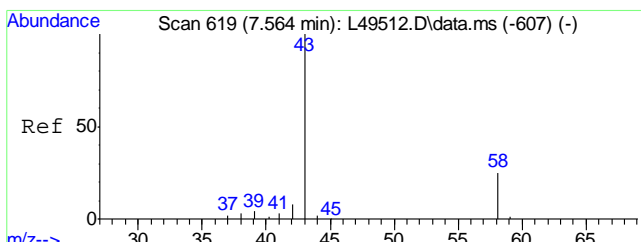
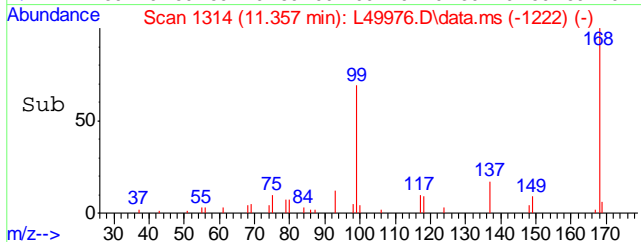
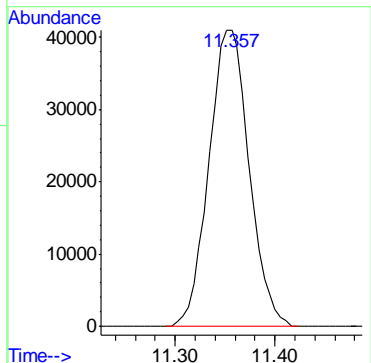
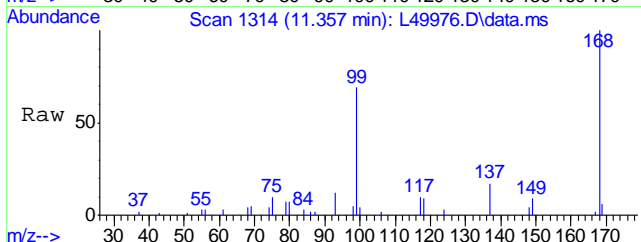
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49976.D
Acq On : 12 Jul 2016 2:45 pm
Operator : johannat
Sample : C46435-2R
Misc : MS1912,VL1499,5.13,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 10:59:51 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration



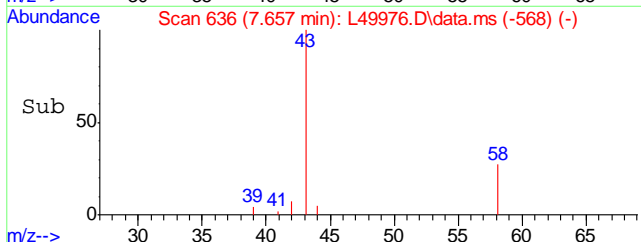
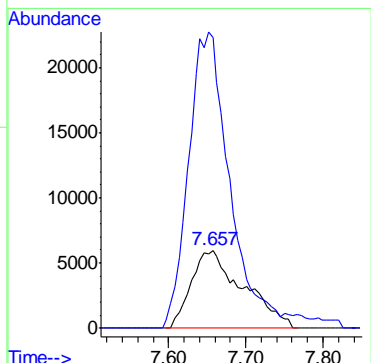
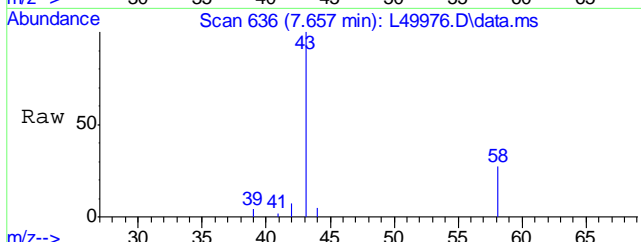


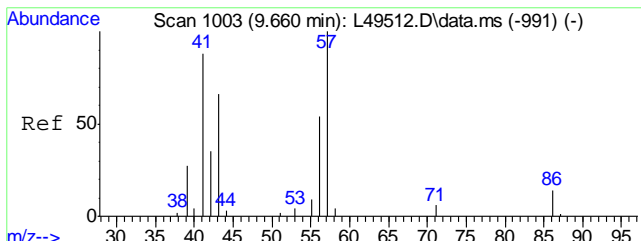
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.357 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm
 Tgt Ion:168 Resp: 1146975



#11
 Acetone
 Concen: 85.51 ug/Kg
 RT: 7.657 min Scan# 636
 Delta R.T. 0.022 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm
 Tgt Ion: 58 Resp: 279310

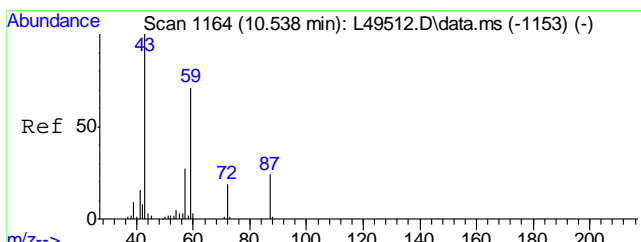
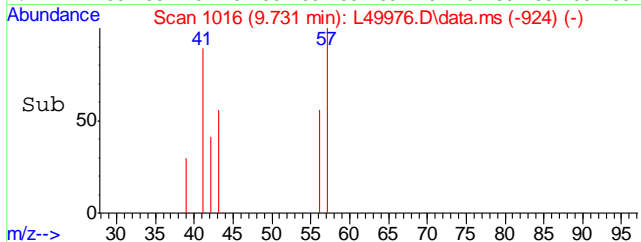
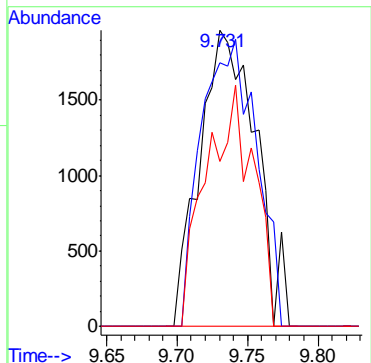
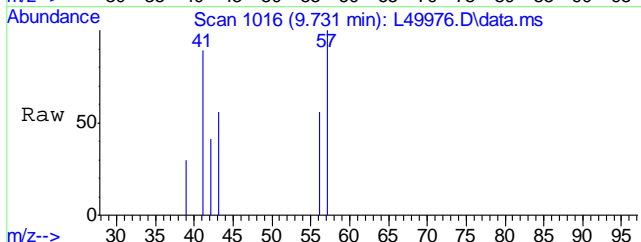
Ion	Ratio	Lower	Upper
58	100		
43	312.4	428.1	468.1#





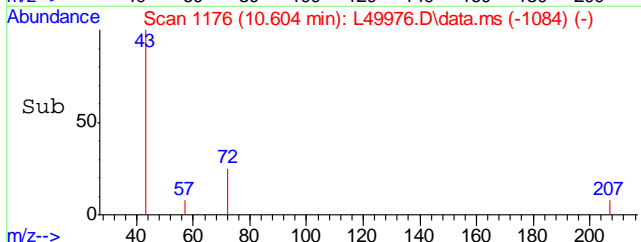
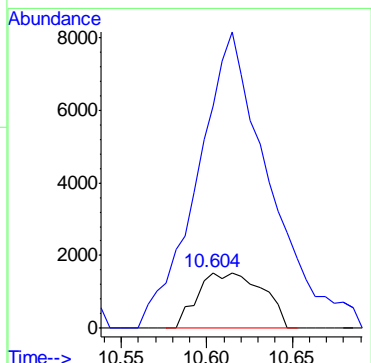
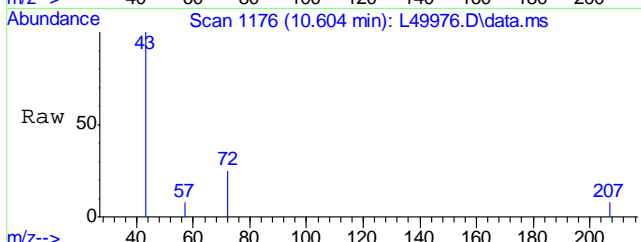
#24
Hexane
Concen: 1.50 ug/Kg
RT: 9.731 min Scan# 1016
Delta R.T. 0.000 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

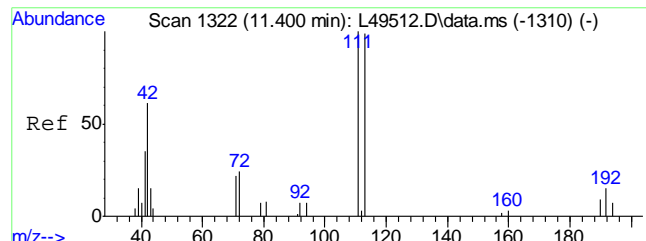
Tgt Ion	Resp	Lower	Upper
57	100		
41	95.6	73.8	110.8
43	69.2	56.6	84.8



#30
2-Butanone (MEK)
Concen: 9.39 ug/Kg
RT: 10.604 min Scan# 1176
Delta R.T. 0.000 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

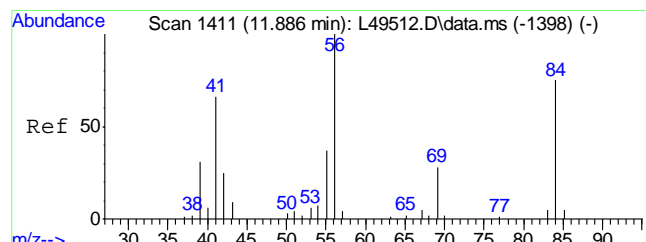
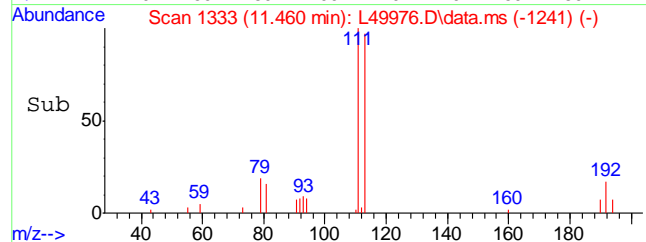
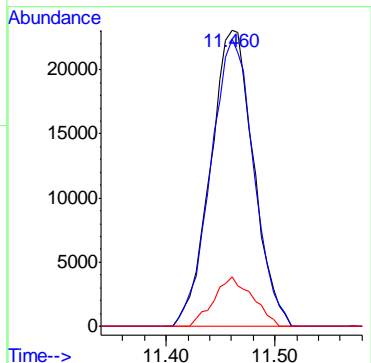
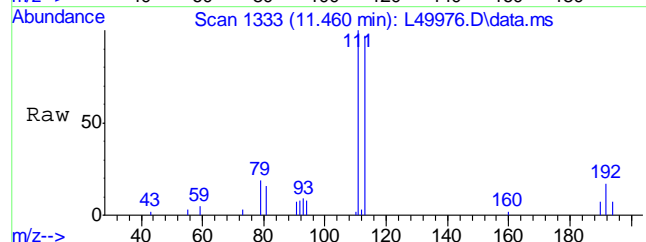
Tgt Ion	Resp	Lower	Upper
72	100		
43	590.1	573.4	613.4





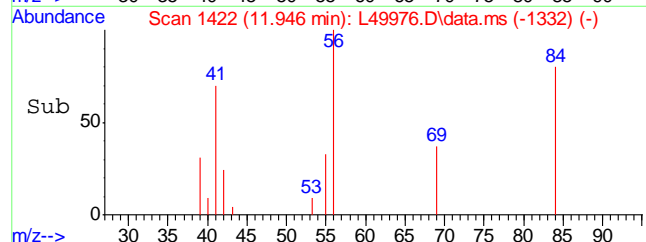
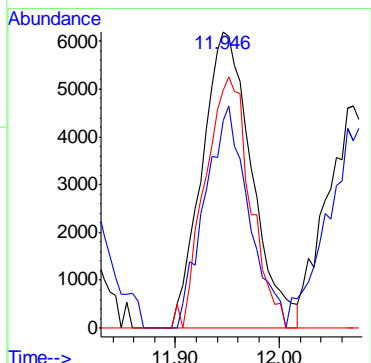
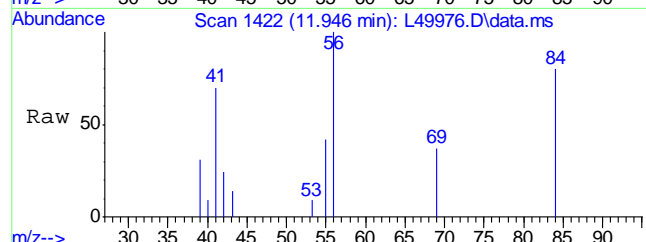
#36
 Dibromofluoromethane
 Concen: 18.44 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

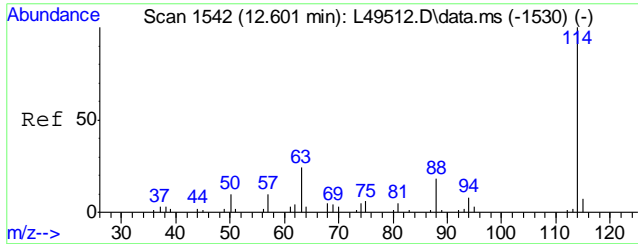
Tgt Ion	Resp	Lower	Upper
111	633364		
113	97.1	78.6	118.6
192	15.0	0.0	34.1



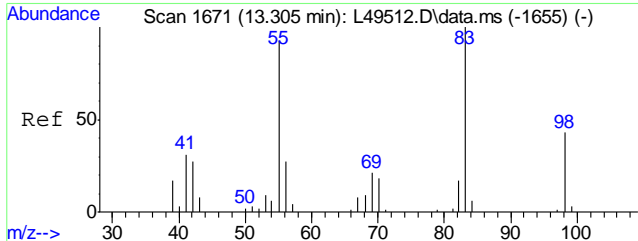
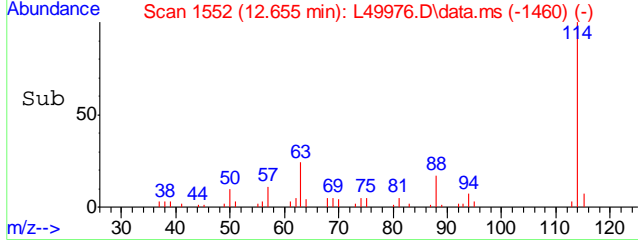
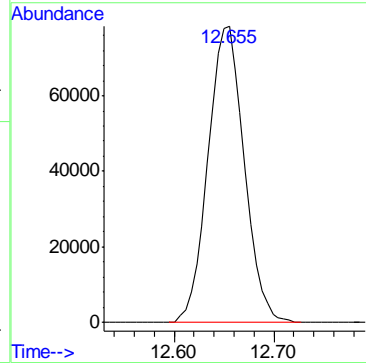
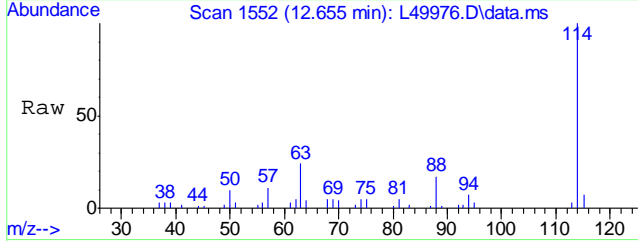
#38
 Cyclohexane
 Concen: 4.01 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.010 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

Tgt Ion	Resp	Lower	Upper
56	207429		
41	66.1	53.7	80.5
84	76.9	60.5	90.7





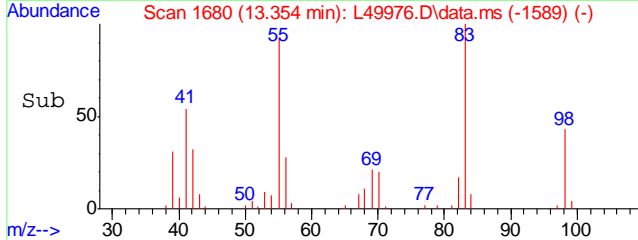
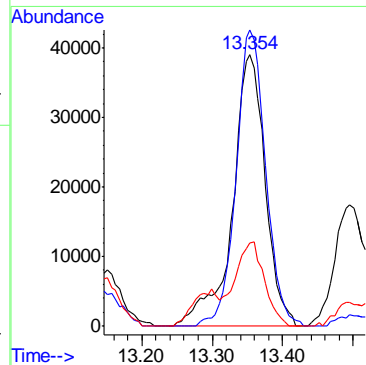
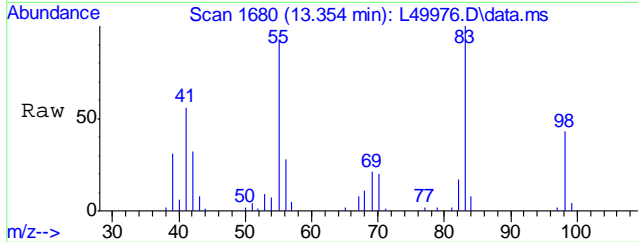
#40
1,4-Difluorobenzene
Concen: 20.00 ug/Kg
RT: 12.655 min Scan# 1552
Delta R.T. 0.000 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm
Tgt Ion:114 Resp: 1971942

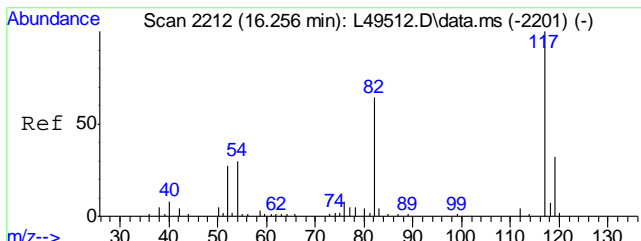


#48
Methylcyclohexane
Concen: 27.25 ug/Kg
RT: 13.354 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

Tgt Ion: 55 Resp: 1258124

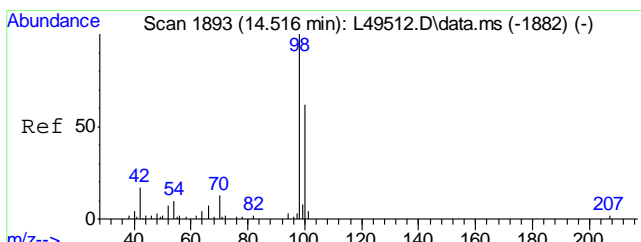
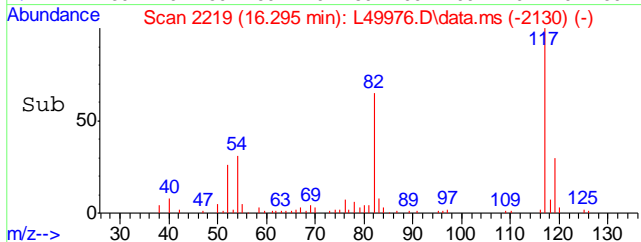
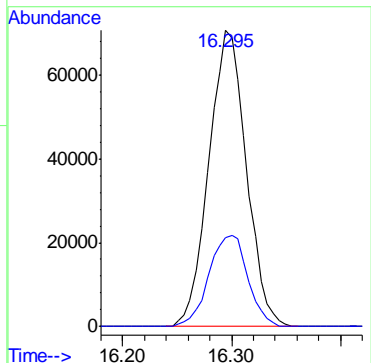
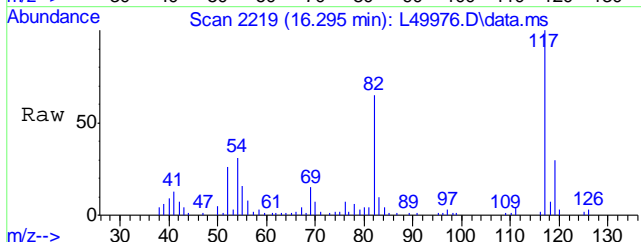
Ion	Ratio	Lower	Upper
55	100		
83	98.2	80.6	120.6
56	27.3	11.5	51.5





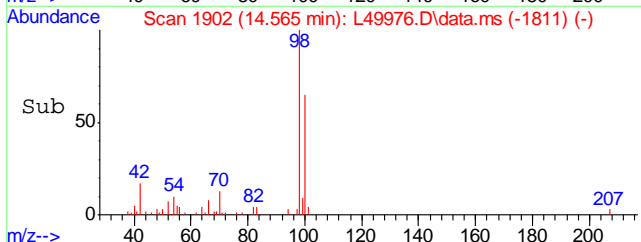
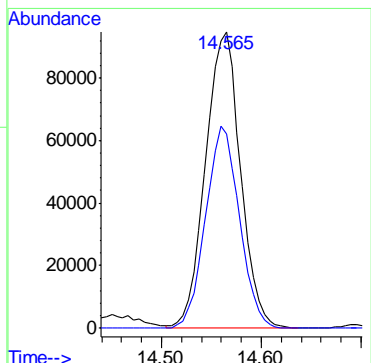
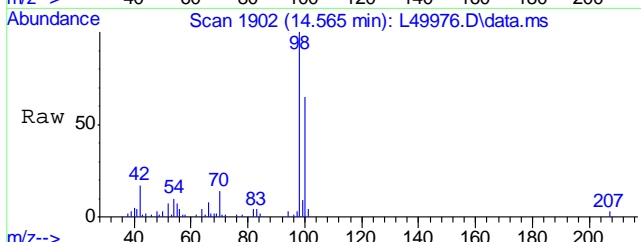
#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

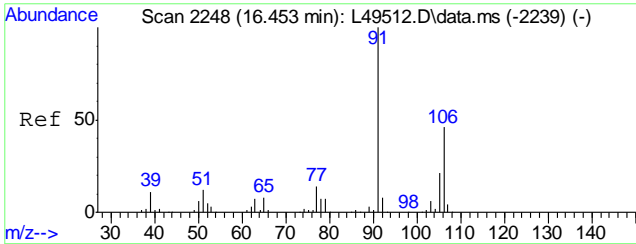
Tgt Ion	Resp	Lower	Upper
117	1686168		
117	100		
119	31.9	10.2	50.2



#56
Toluene-d8
Concen: 19.36 ug/Kg
RT: 14.565 min Scan# 1902
Delta R.T. -0.005 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

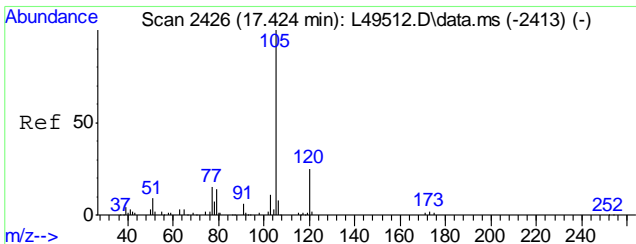
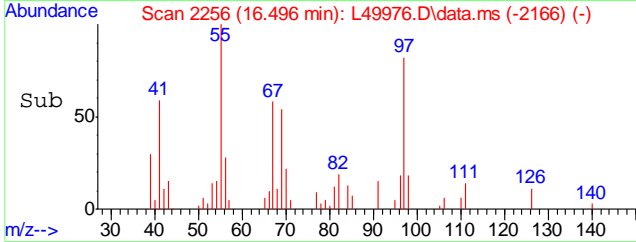
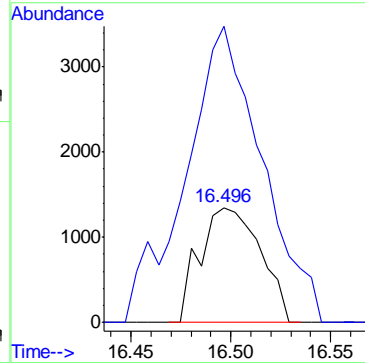
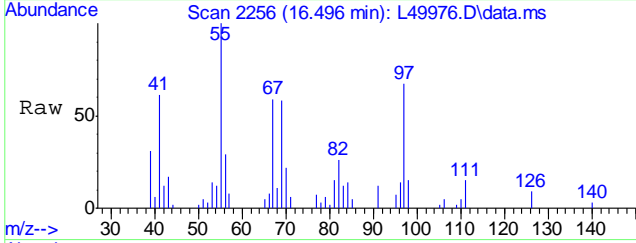
Tgt Ion	Resp	Lower	Upper
98	2305306		
98	100		
100	65.8	45.2	85.2





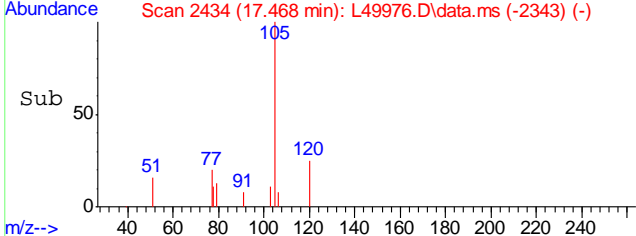
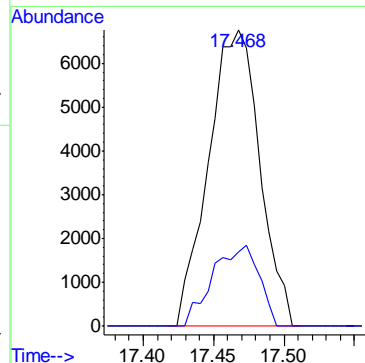
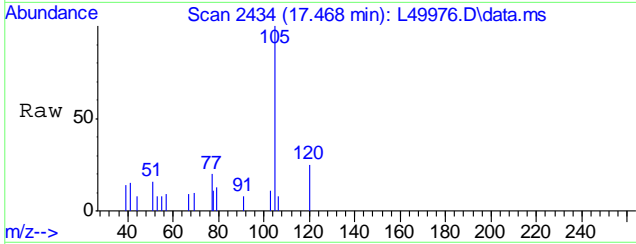
#68
Xylene, m+p
Concen: 0.49 ug/Kg
RT: 16.496 min Scan# 2256
Delta R.T. -0.010 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

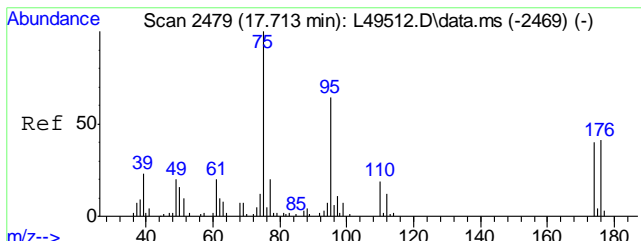
Tgt Ion	Resp	Lower	Upper
106	28465		
106	100		
91	325.5	202.1	242.1#



#73
Isopropylbenzene
Concen: 1.16 ug/Kg
RT: 17.468 min Scan# 2434
Delta R.T. -0.005 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

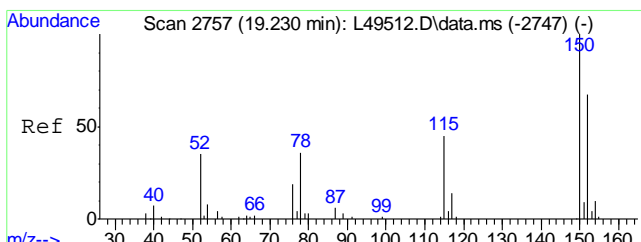
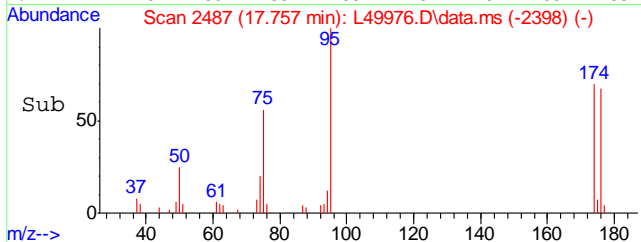
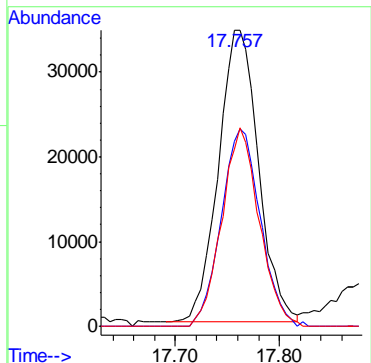
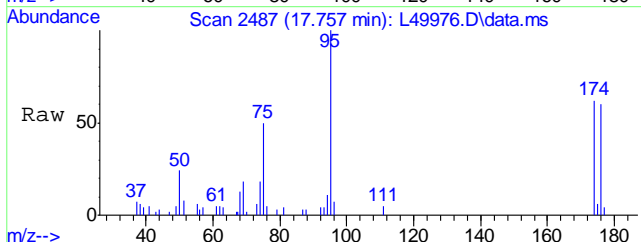
Tgt Ion	Resp	Lower	Upper
105	170552		
105	100		
120	24.7	4.1	44.1





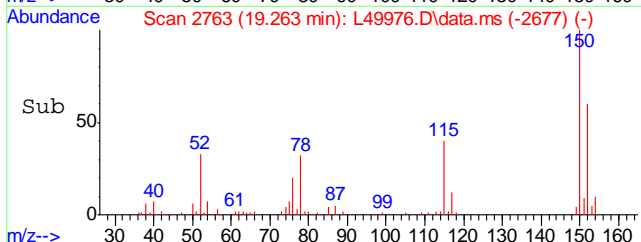
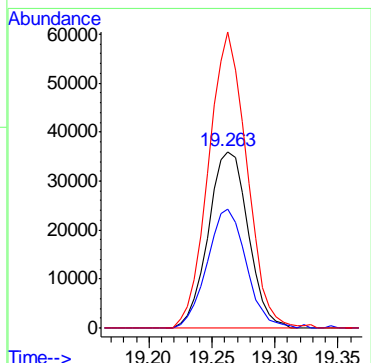
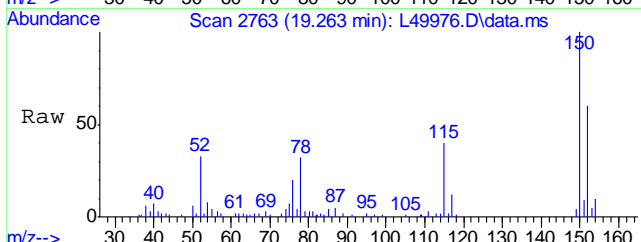
#74
4-Bromofluorobenzene
Concen: 18.70 ug/Kg
RT: 17.757 min Scan# 2487
Delta R.T. -0.016 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

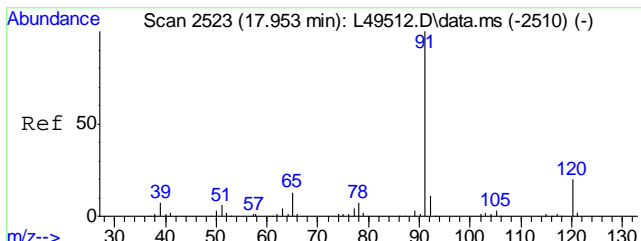
Tgt Ion	Resp	Lower	Upper
95	925247		
174	66.0	41.6	81.6
176	63.6	39.6	79.6



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

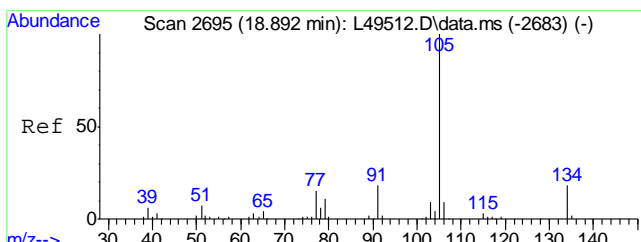
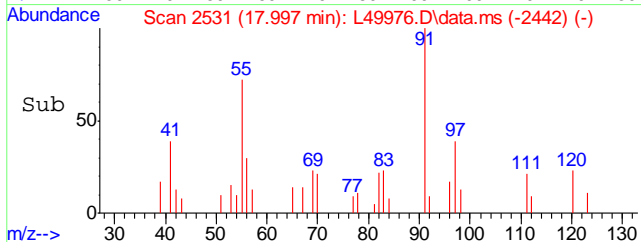
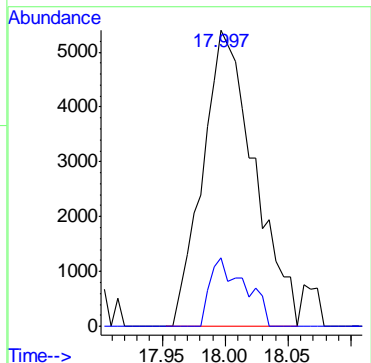
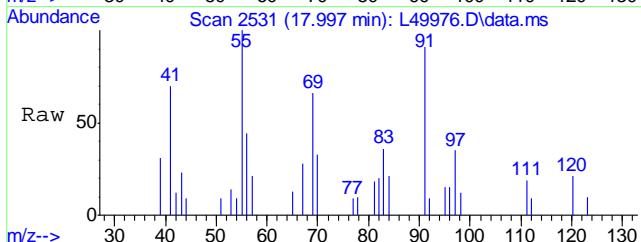
Tgt Ion	Resp	Lower	Upper
152	789750		
152	100		
115	66.2	48.8	88.8
150	160.8	174.3	214.3#





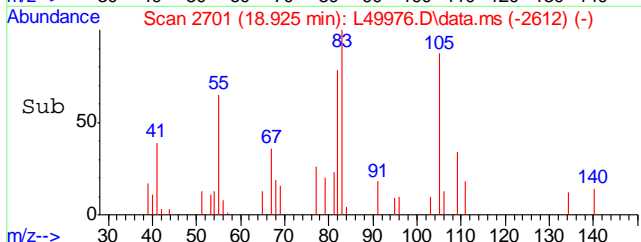
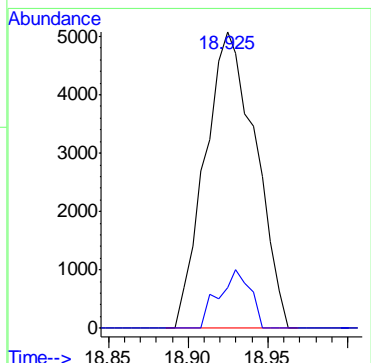
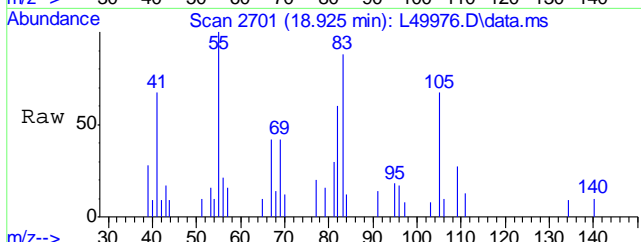
#79
 n-Propylbenzene
 Concen: 0.83 ug/Kg
 RT: 17.997 min Scan# 2531
 Delta R.T. -0.016 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

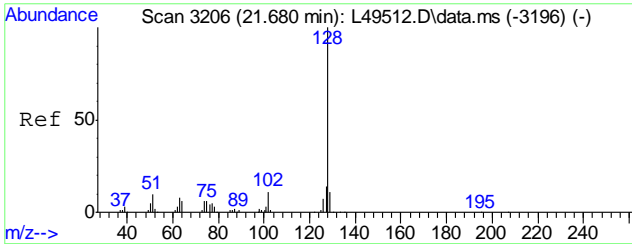
Tgt Ion	Resp	Lower	Upper
91	153140	100	
120	15.7	0.0	39.7



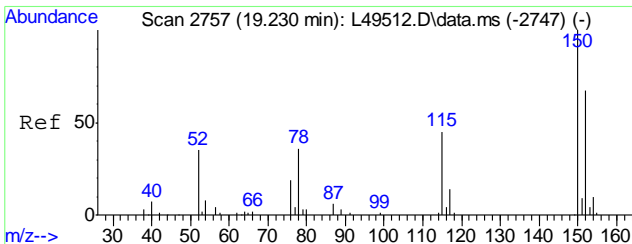
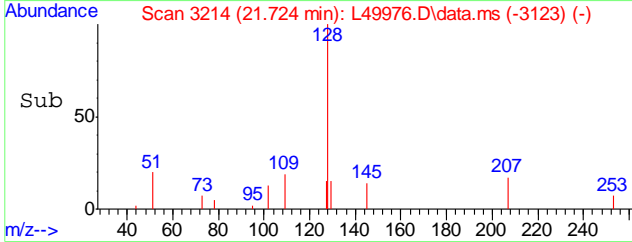
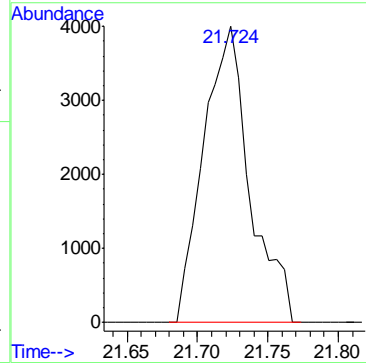
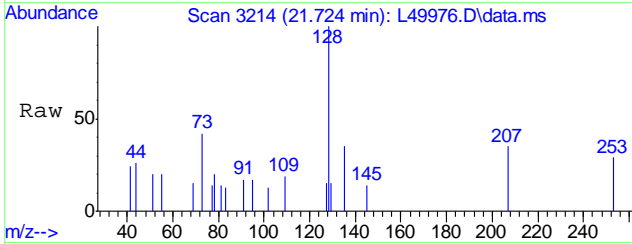
#87
 sec-Butylbenzene
 Concen: 0.72 ug/Kg
 RT: 18.925 min Scan# 2701
 Delta R.T. -0.016 min
 Lab File: L49976.D
 Acq: 12 Jul 2016 2:45 pm

Tgt Ion	Resp	Lower	Upper
105	112082	100	
134	12.1	0.0	37.0





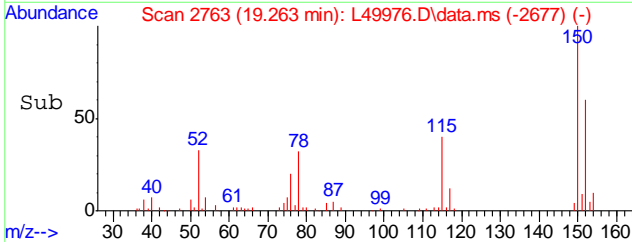
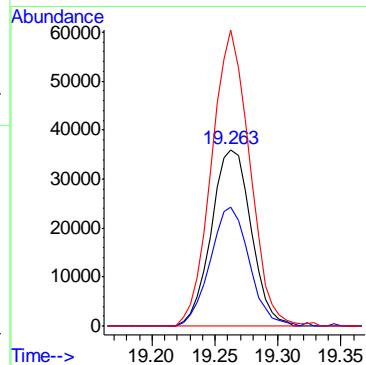
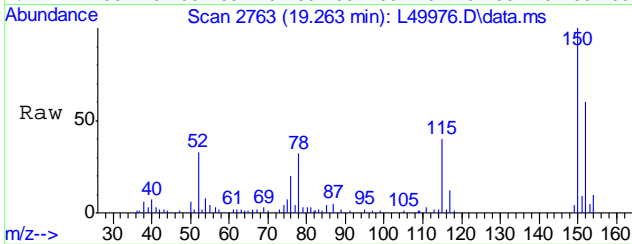
#97
Naphthalene
Concen: 0.76 ug/Kg
RT: 21.724 min Scan# 3214
Delta R.T. -0.005 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm
Tgt Ion:128 Resp: 91492

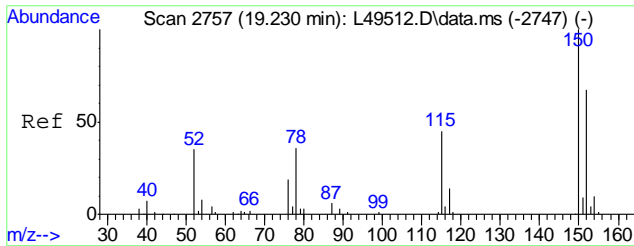


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm

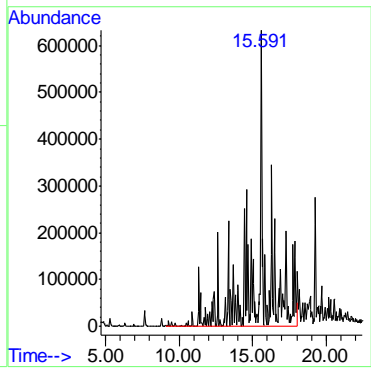
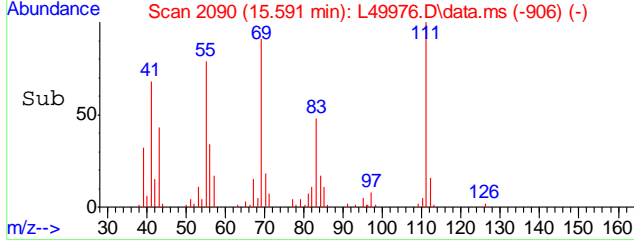
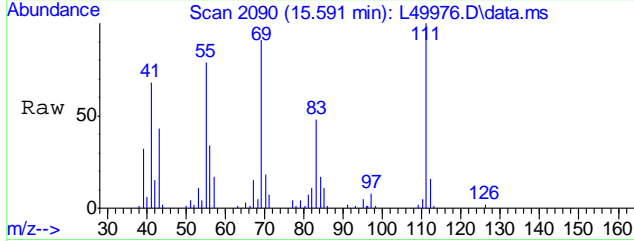
Tgt Ion:152 Resp: 789750

Ion	Ratio	Lower	Upper
152	100		
115	66.2	41.6	81.6
150	160.8	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 932.31 ug/Kg m
RT: 15.591 min Scan# 2090
Delta R.T. 1.065 min
Lab File: L49976.D
Acq: 12 Jul 2016 2:45 pm
Tgt Ion:TIC Resp:205932422



6.1.4
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61842.D
Acq On : 13 Jul 2016 6:01 pm
Operator : johannat
Sample : C46435-3R
Misc : MS1912,VM1859,5.07,,100,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 10:09:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, and 1,4-Dichlorobenzene-d4A.

Table with 7 columns: System Monitoring Compounds, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Dibromofluoromethane and Toluene-d8 with spiked amounts and recovery percentages.

Table with 7 columns: Target Compounds, R.T., QIon, Response, Conc, Units, Qvalue. Rows include Methyl Acetate, Hexane, Cyclohexane, n-Butyl Alcohol, Methylcyclohexane, Isopropylbenzene, n-Propylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, and TPH-GRO (C6-C10).

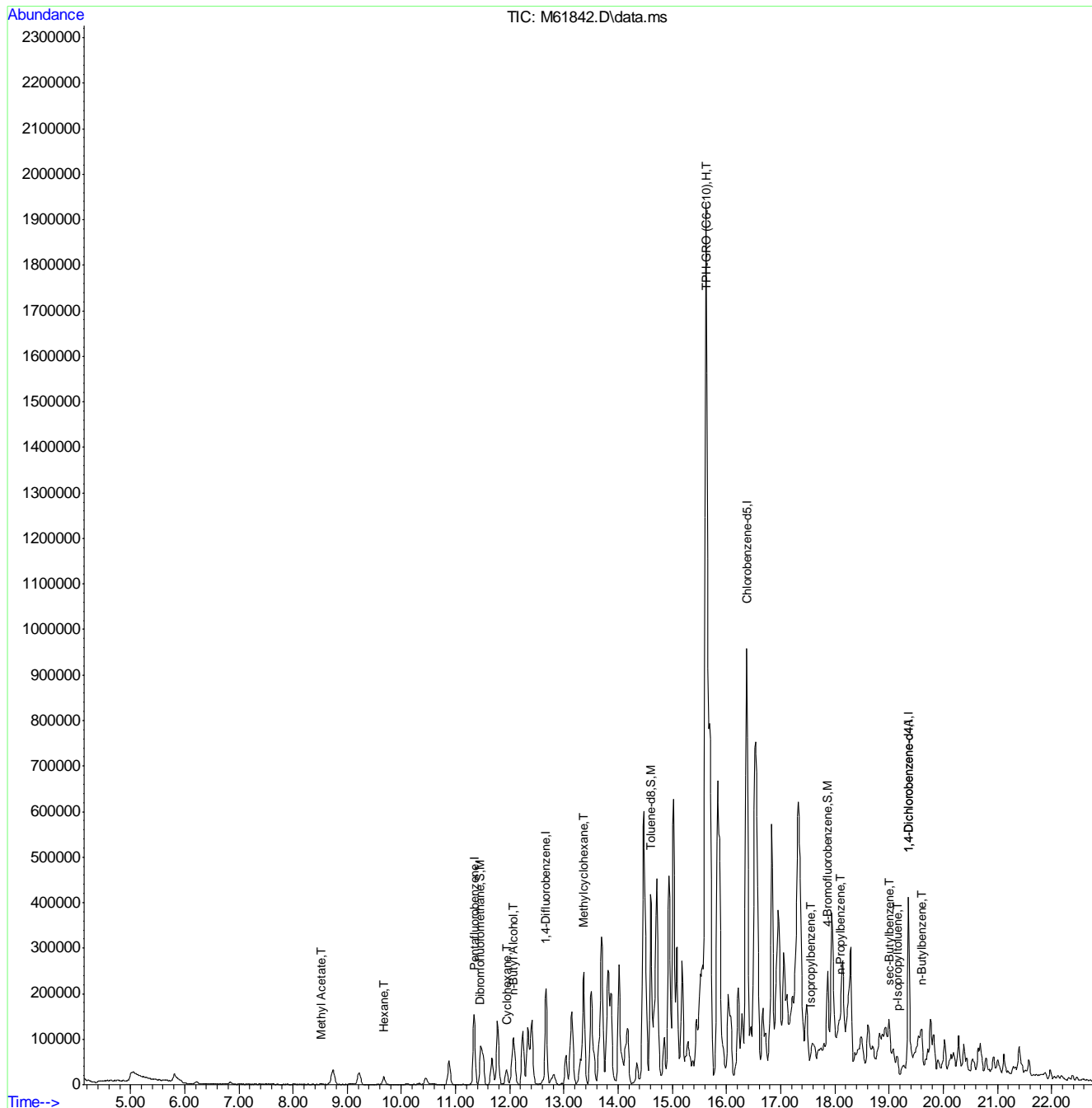
(#) = qualifier out of range (m) = manual integration (+) = signals summed

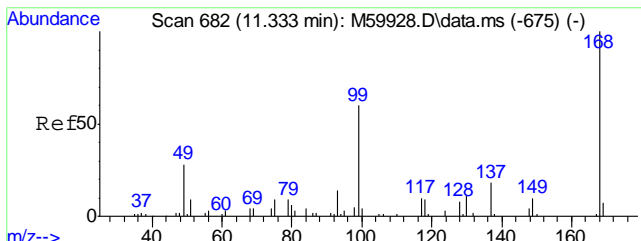
6.1.5
6

Quantitation Report (QT Reviewed)

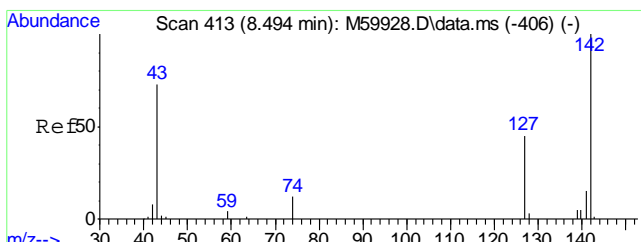
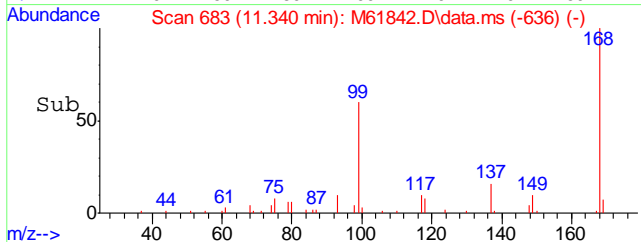
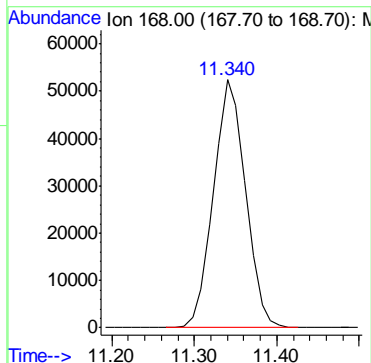
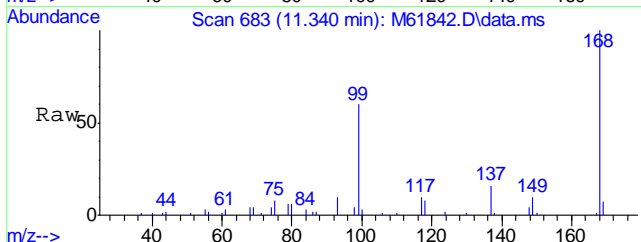
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61842.D
 Acq On : 13 Jul 2016 6:01 pm
 Operator : johannat
 Sample : C46435-3R
 Misc : MS1912,VM1859,5.07,,100,5,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 10:09:31 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration



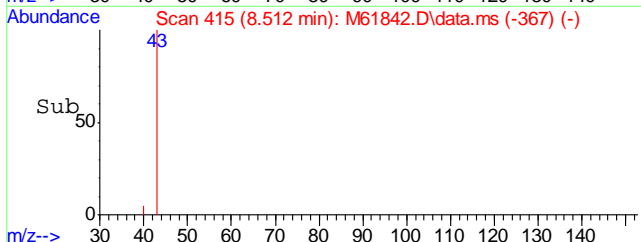
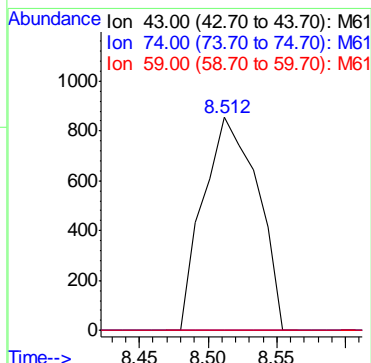
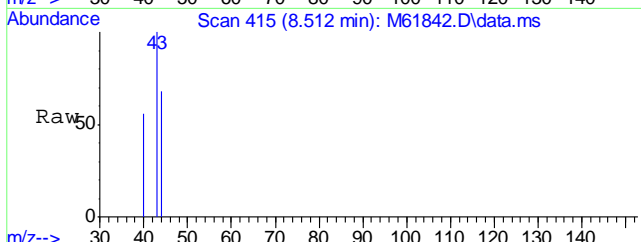


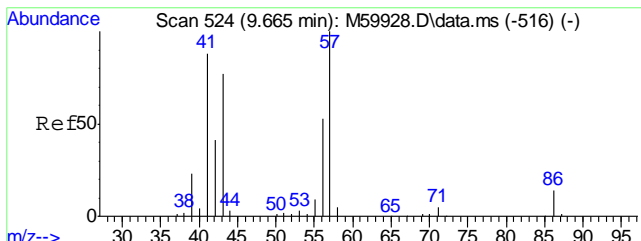
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm
 Tgt Ion:168 Resp: 142145



#15
 Methyl Acetate
 Concen: 0.54 ppb
 RT: 8.512 min Scan# 415
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm
 Tgt Ion: 43 Resp: 2344

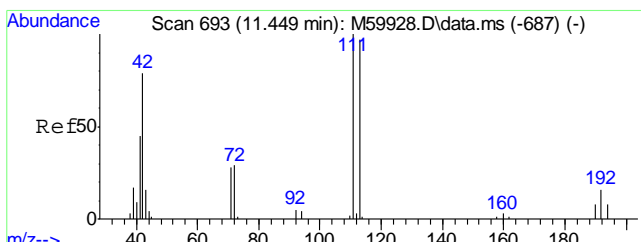
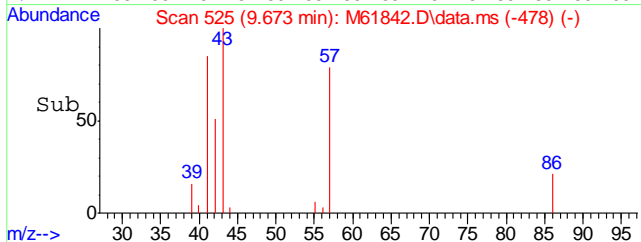
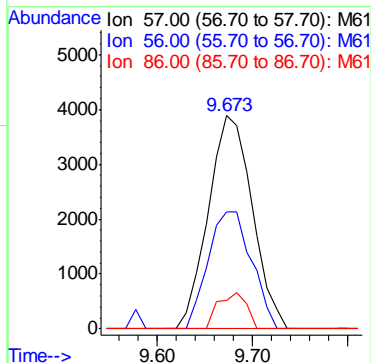
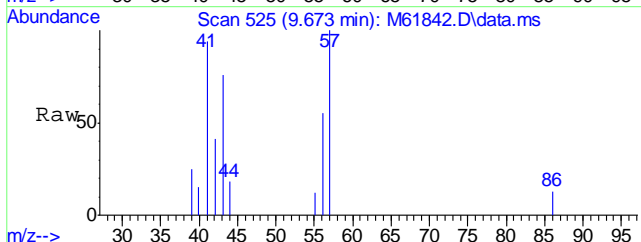
Ion	Ratio	Lower	Upper
43	100		
74	0.0	0.0	37.1
59	0.0	0.0	27.1





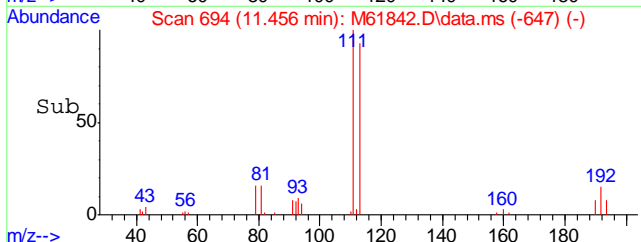
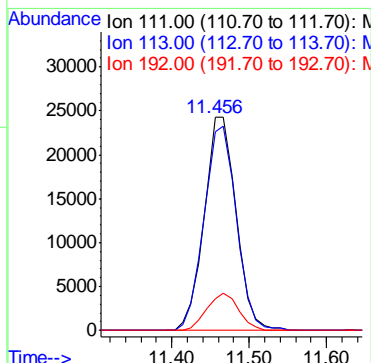
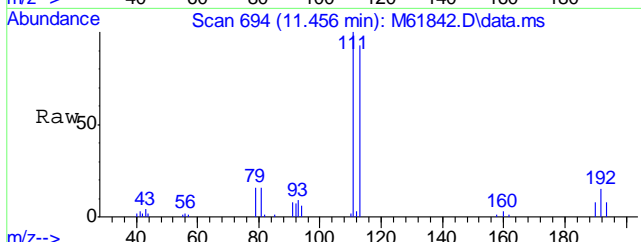
#24
Hexane
Concen: 1.66 ppb
RT: 9.673 min Scan# 525
Delta R.T. -0.003 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

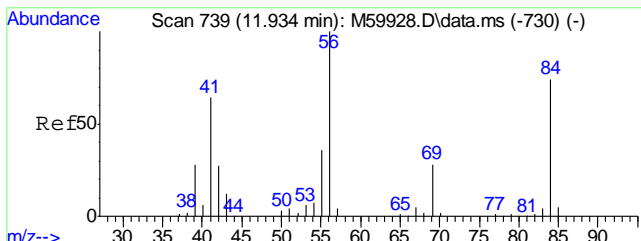
Tgt Ion	Resp	Lower	Upper
57	12431	100	
56	54.2	32.9	72.9
86	0.0	0.0	34.1



#36
Dibromofluoromethane
Concen: 19.26 ppb
RT: 11.456 min Scan# 694
Delta R.T. -0.003 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

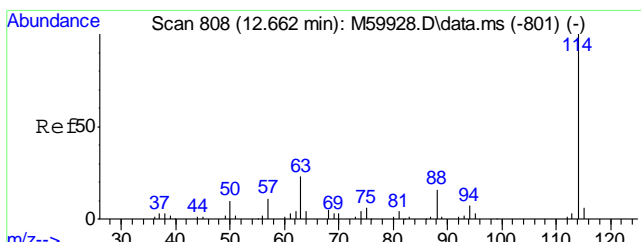
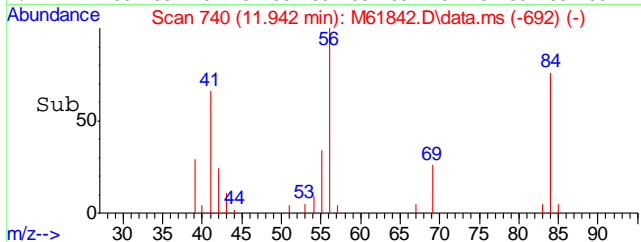
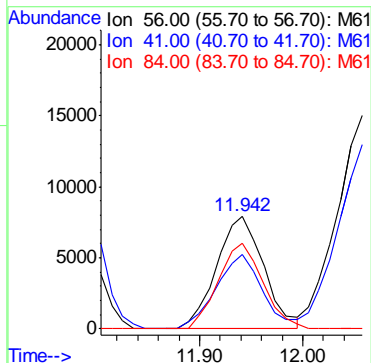
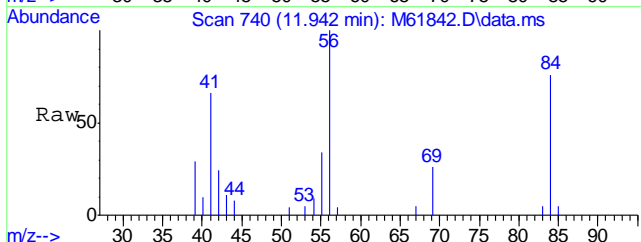
Tgt Ion	Resp	Lower	Upper
111	69426	100	
113	97.1	77.7	117.7
192	17.3	0.0	36.3





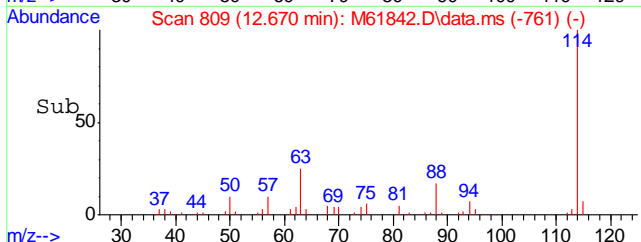
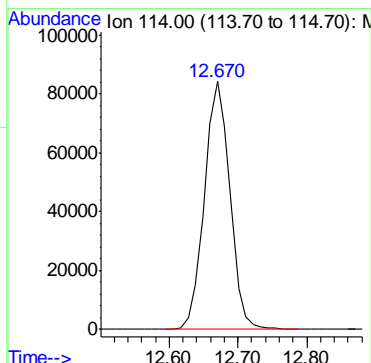
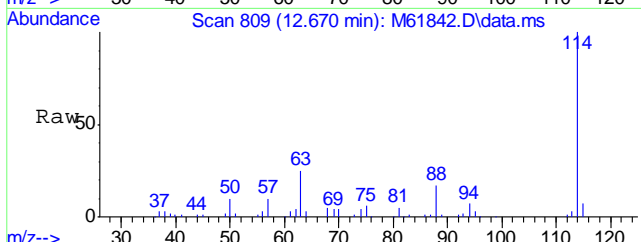
#38
Cyclohexane
Concen: 2.72 ppb
RT: 11.942 min Scan# 740
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

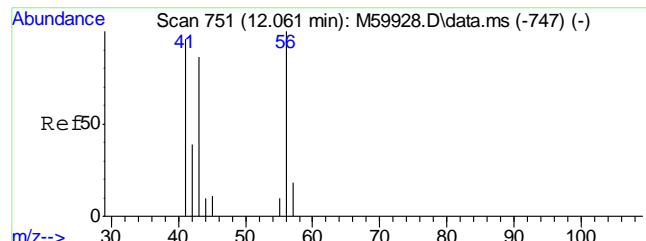
Tgt Ion	Resp	Lower	Upper
56	25202		
56	100		
41	65.1	46.3	86.3
84	71.9	56.0	96.0



#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.670 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

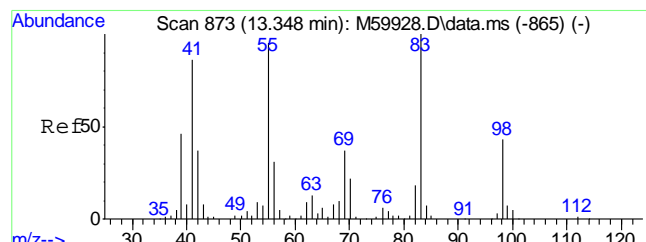
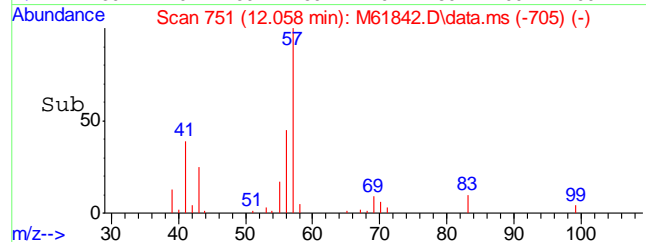
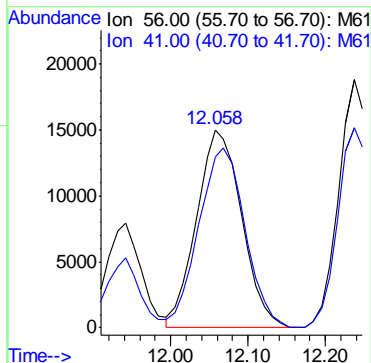
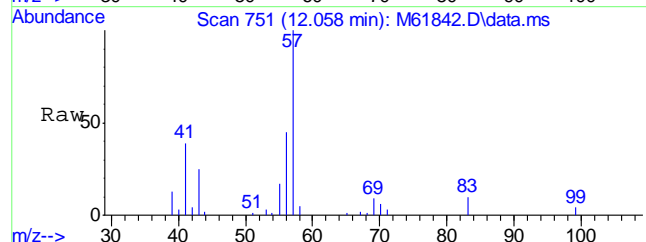
Tgt Ion	Resp
114	216223





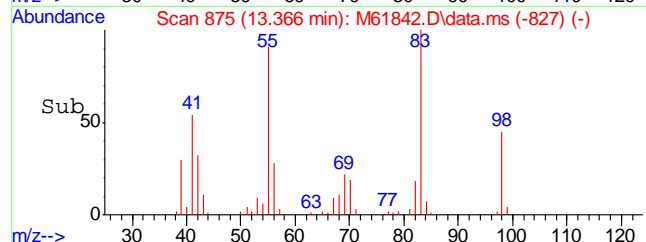
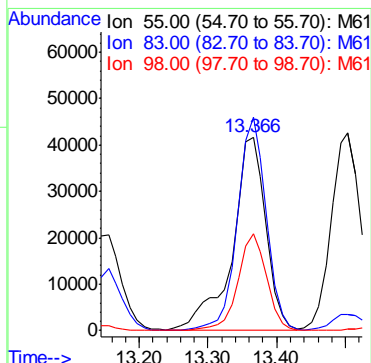
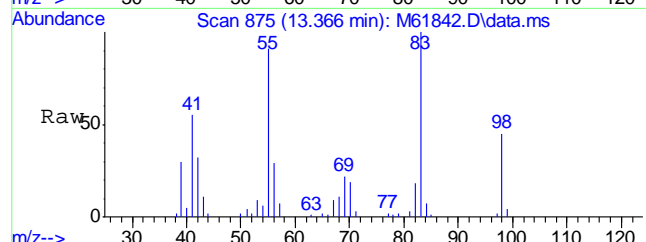
#42
n-Butyl Alcohol
Concen: 578.05 ppb
RT: 12.058 min Scan# 751
Delta R.T. -0.014 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

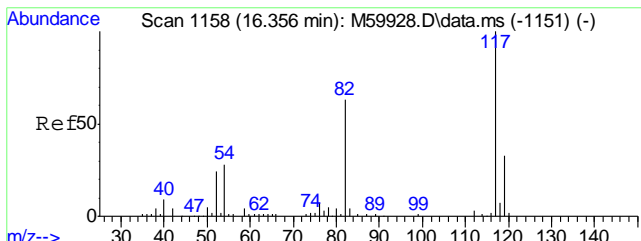
Tgt Ion	Resp	Lower	Upper
56	60533		
56	100		
41	93.4	63.5	103.5



#48
Methylcyclohexane
Concen: 18.01 ppb
RT: 13.366 min Scan# 875
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

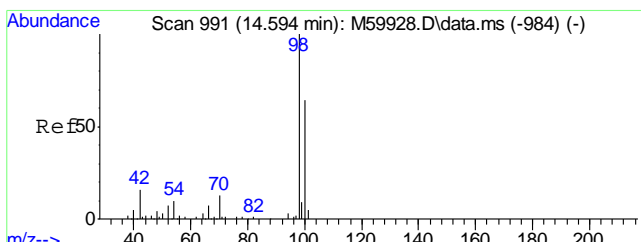
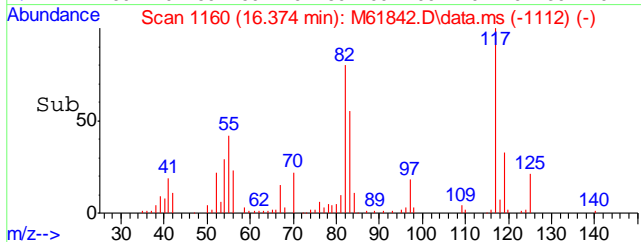
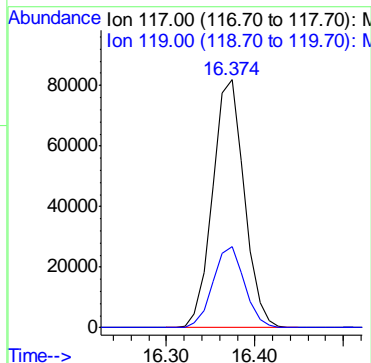
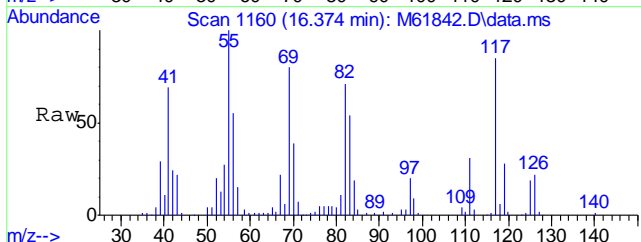
Tgt Ion	Resp	Lower	Upper
55	143127		
55	100		
83	94.0	84.5	124.5
98	42.3	27.0	67.0





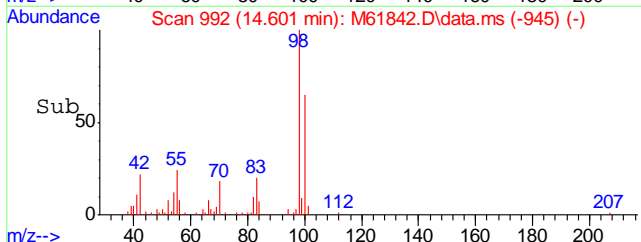
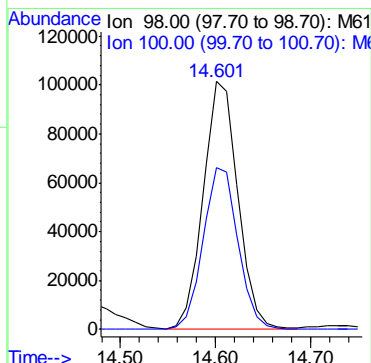
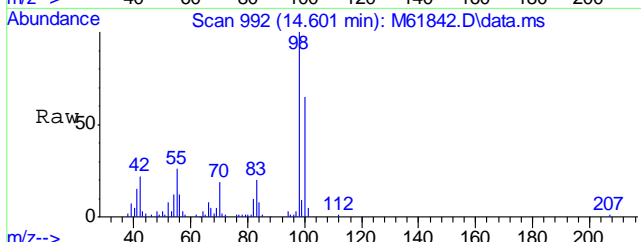
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.374 min Scan# 1160
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

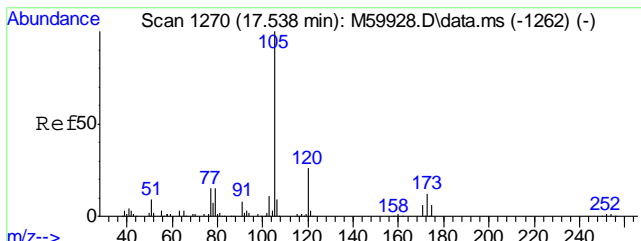
Tgt Ion	Resp	Lower	Upper
117	203741	100	
119	32.4	11.2	51.2



#56
 Toluene-d8
 Concen: 19.30 ppb
 RT: 14.601 min Scan# 992
 Delta R.T. -0.003 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

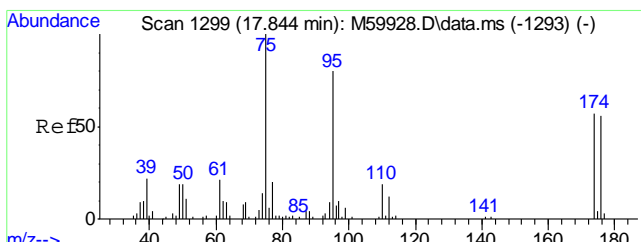
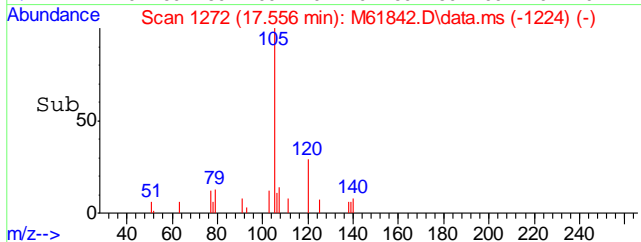
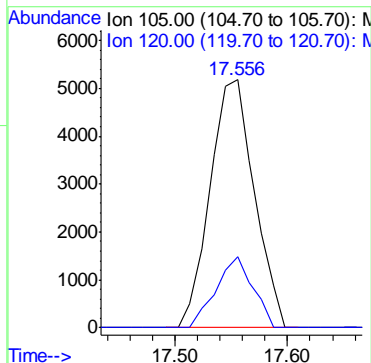
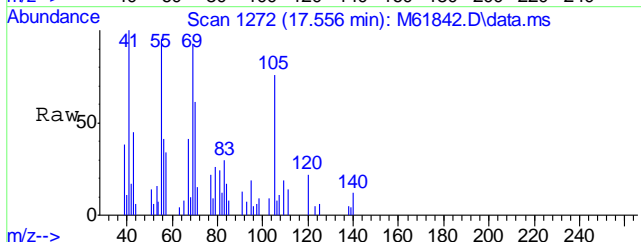
Tgt Ion	Resp	Lower	Upper
98	256686	100	
100	65.5	44.3	84.3





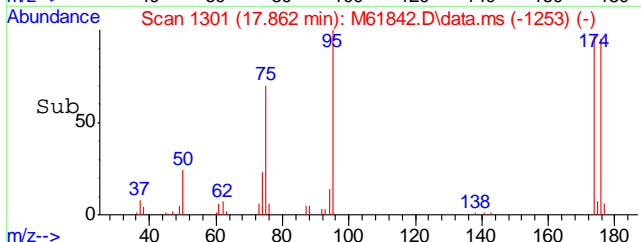
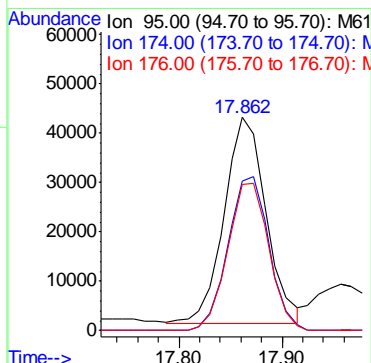
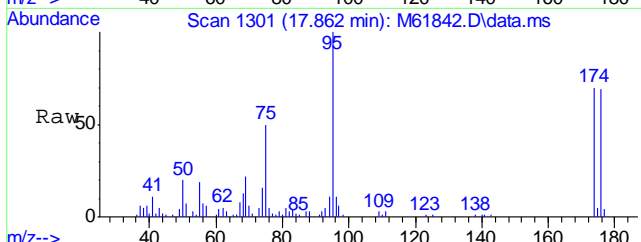
#73
Isopropylbenzene
Concen: 0.72 ppb
RT: 17.556 min Scan# 1272
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

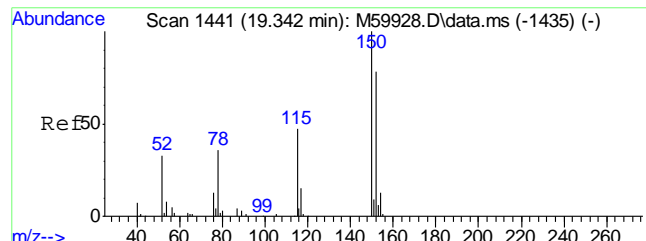
Tgt Ion	Resp	Lower	Upper
105	14144		
120	23.9	5.7	45.7



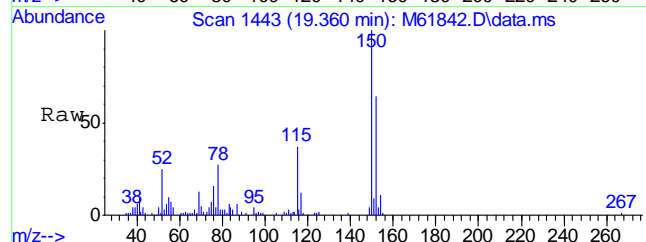
#74
4-Bromofluorobenzene
Concen: 22.66 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

Tgt Ion	Resp	Lower	Upper
95	118447		
174	72.8	54.3	94.3
176	70.1	51.5	91.5



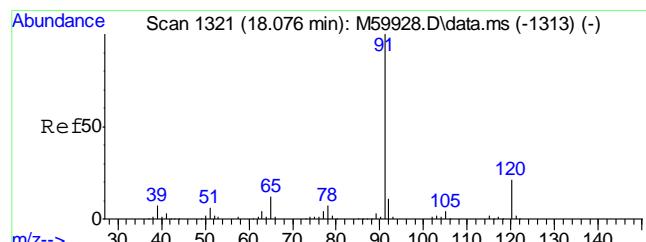
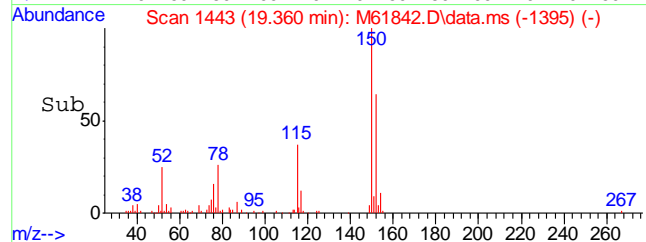
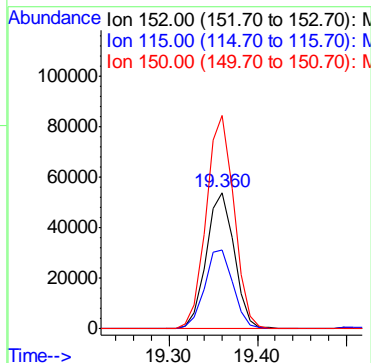


#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

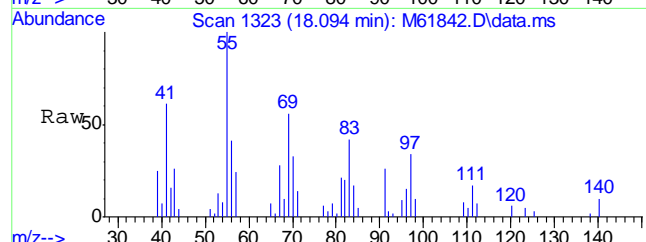


Tgt Ion: 152 Resp: 118908

Ion	Ratio	Lower	Upper
152	100		
115	58.6	40.9	80.9
150	154.9	178.6	218.6#

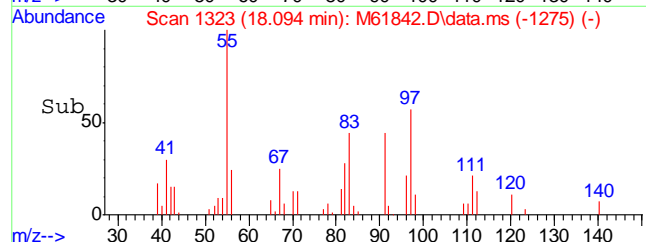
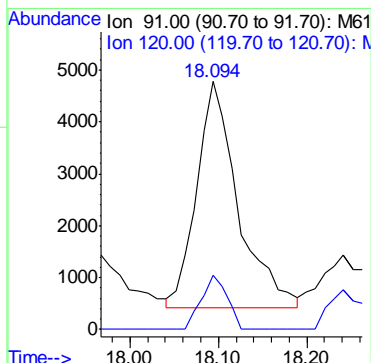


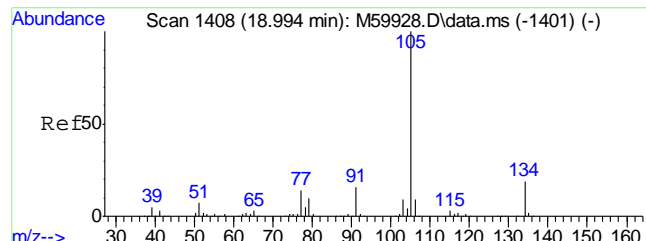
#79
 n-Propylbenzene
 Concen: 0.50 ppb
 RT: 18.094 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm



Tgt Ion: 91 Resp: 14170

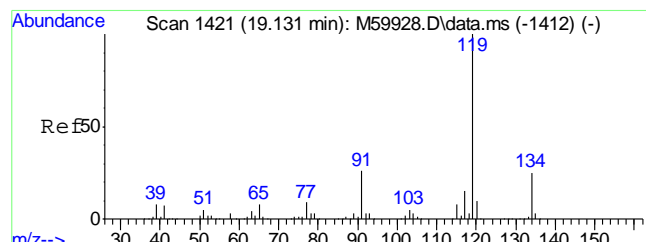
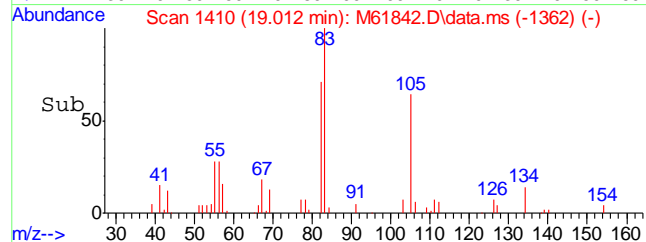
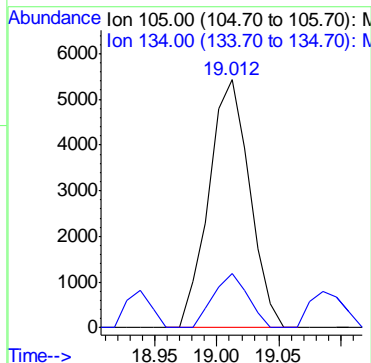
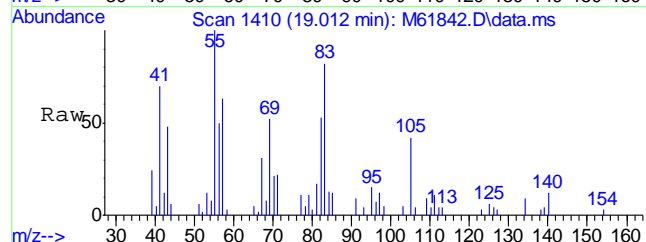
Ion	Ratio	Lower	Upper
91	100		
120	14.9	1.3	41.3





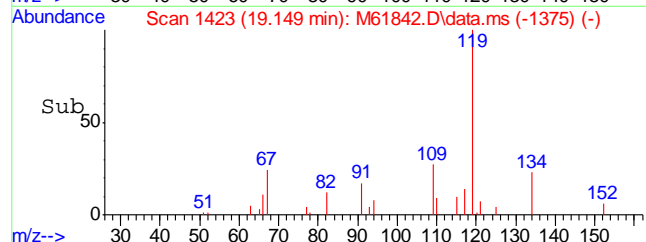
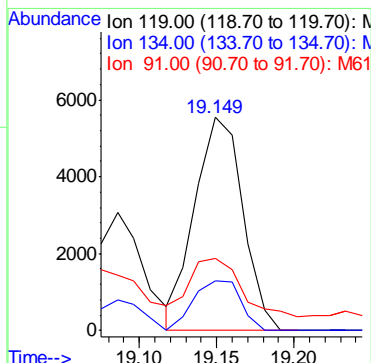
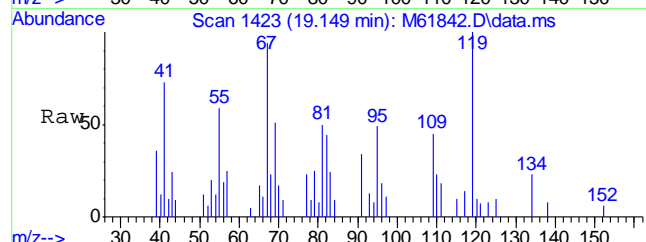
#87
 sec-Butylbenzene
 Concen: 0.51 ppb
 RT: 19.012 min Scan# 1410
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

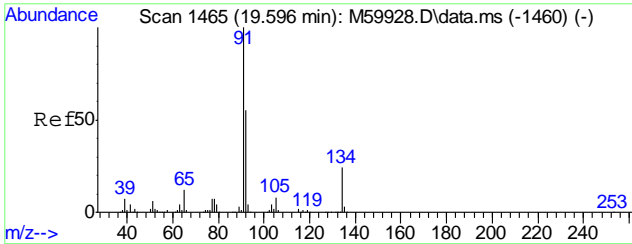
Tgt Ion	Resp	Lower	Upper
105	12492	100	
134	18.5	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 0.60 ppb
 RT: 19.149 min Scan# 1423
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

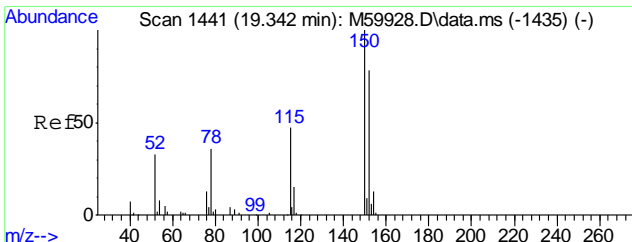
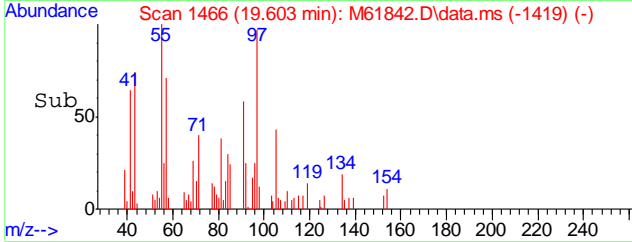
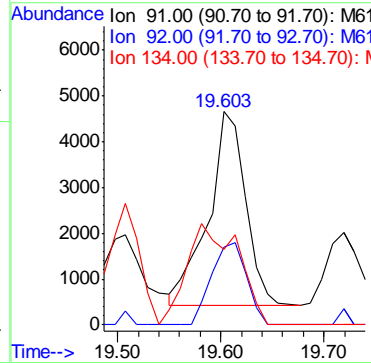
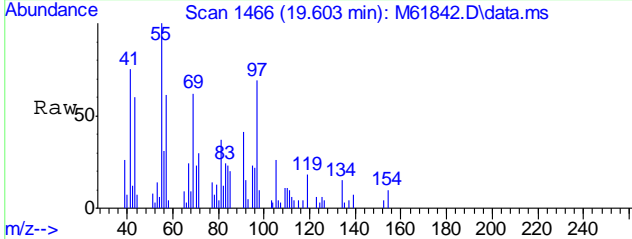
Tgt Ion	Resp	Lower	Upper
119	11950	100	
134	23.1	6.0	46.0
91	27.5	6.0	46.0





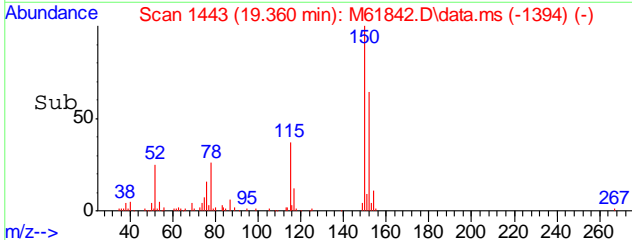
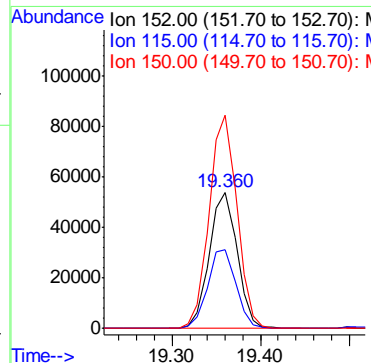
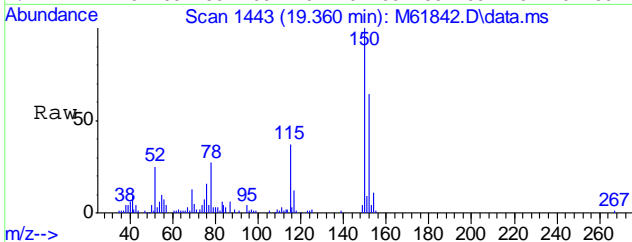
#92
 n-Butylbenzene
 Concen: 0.52 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

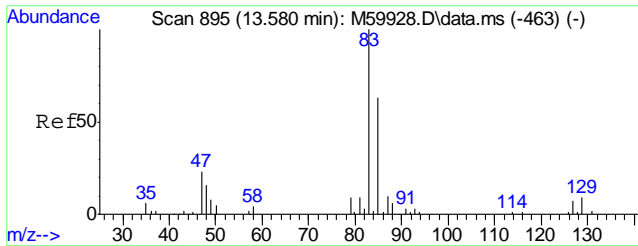
Tgt Ion	Resp	Lower	Upper
91	10574		
92	40.1	35.3	75.3
134	72.4	3.6	43.6#



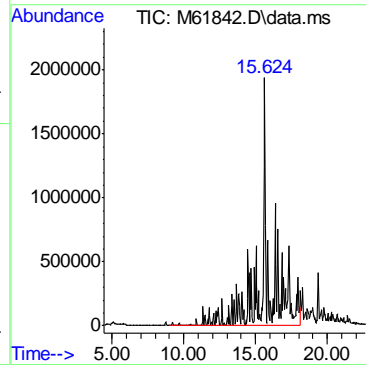
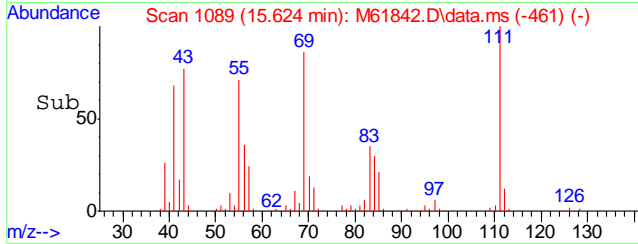
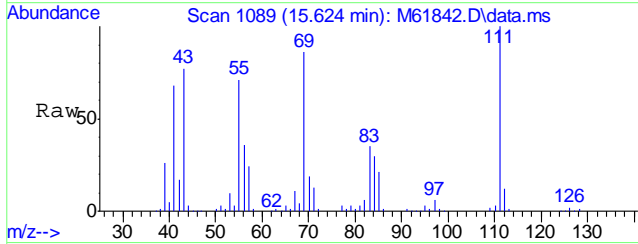
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

Tgt Ion	Resp	Lower	Upper
152	118908		
152	100		
115	58.6	37.3	77.3
150	154.9	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 1973.07 ppb m
RT: 15.624 min Scan# 1089
Delta R.T. 2.074 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm
Tgt Ion:TIC Resp:61512113



6.1.5
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61842.D
 Acq On : 13 Jul 2016 6:01 pm
 Operator : johannat
 Sample : C46435-3R
 Misc : MS1912,VM1859,5.07,,100,5,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 10:09:31 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.340	168	142145	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.670	114	216223	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	203741	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	118908	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	118908	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.456	111	69426	19.26	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	96.30%		
56) Toluene-d8	14.601	98	256686	19.30	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	96.50%		
74) 4-Bromofluorobenzene	17.862	95	118447	22.66	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	113.30%		

Target Compounds

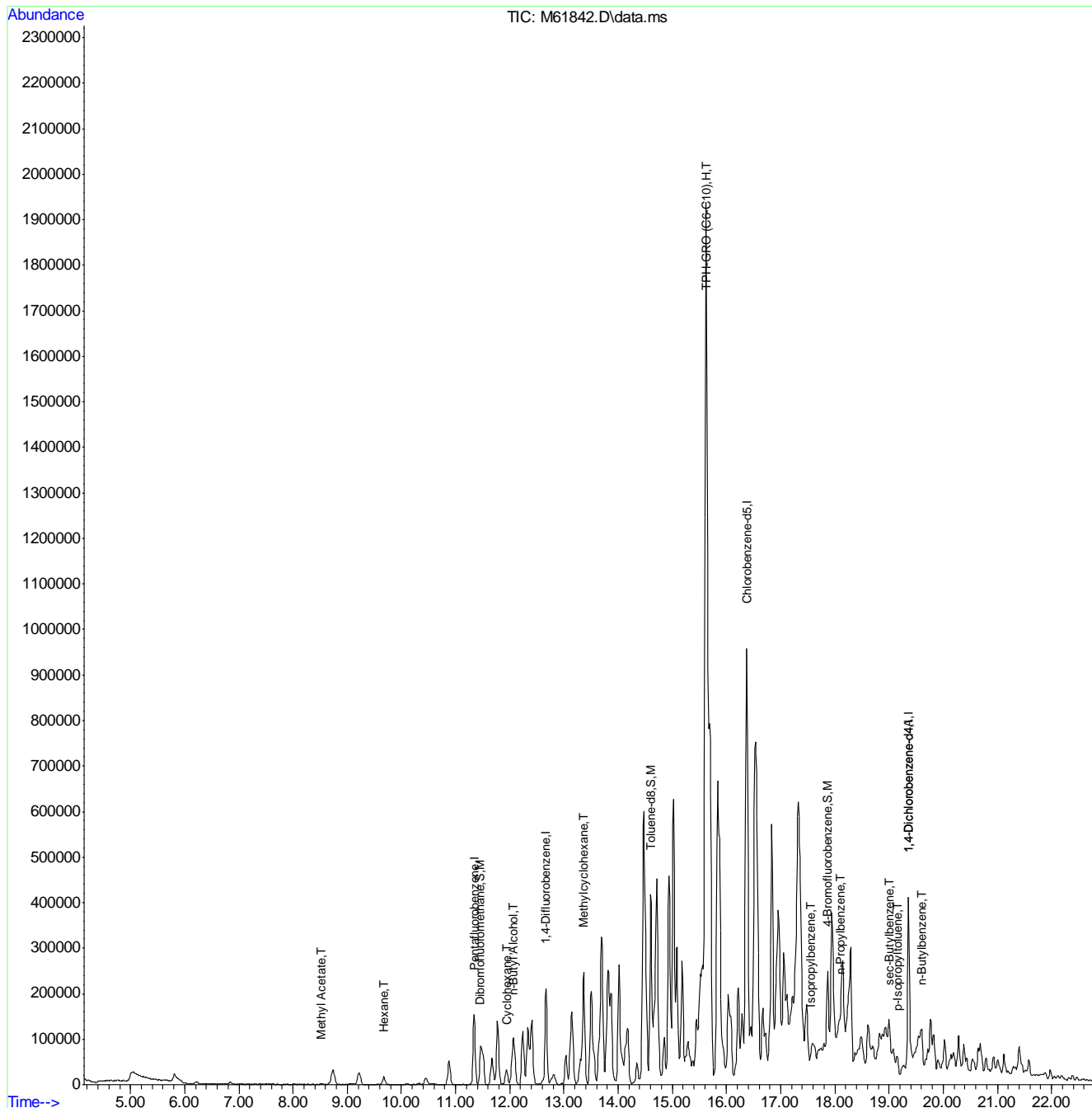
						Qvalue
15) Methyl Acetate	8.512	43	2344	0.54	ppb	# 66
24) Hexane	9.673	57	12431	1.66	ppb	# 91
38) Cyclohexane	11.942	56	25202	2.72	ppb	97
42) n-Butyl Alcohol	12.058	56	60533	578.05	ppb	89
48) Methylcyclohexane	13.366	55	143127	18.01	ppb	91
73) Isopropylbenzene	17.556	105	14144	0.72	ppb	96
79) n-Propylbenzene	18.094	91	14170	0.50	ppb	87
87) sec-Butylbenzene	19.012	105	12492	0.51	ppb	100
88) p-Isopropyltoluene	19.149	119	11950	0.60	ppb	96
92) n-Butylbenzene	19.603	91	10574	0.52	ppb	# 55
100) TPH-GRO (C6-C10)	15.624	TIC	61512113m	1973.07	ppb	

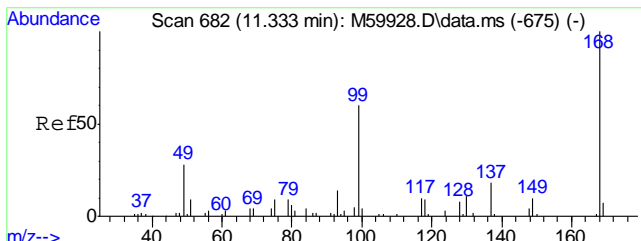
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

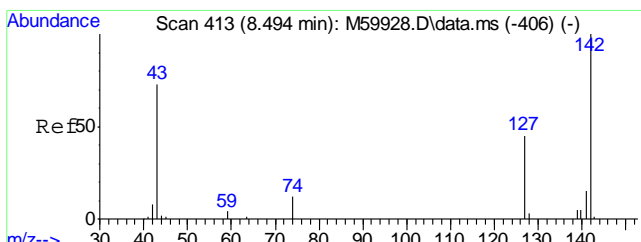
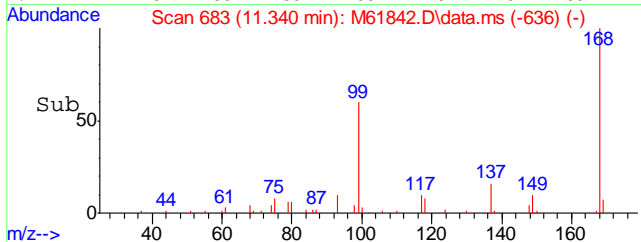
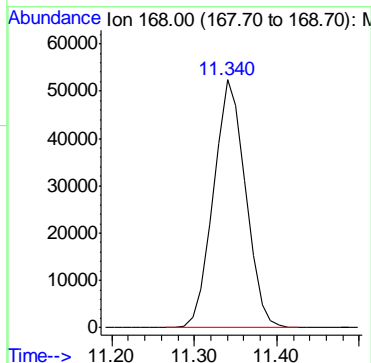
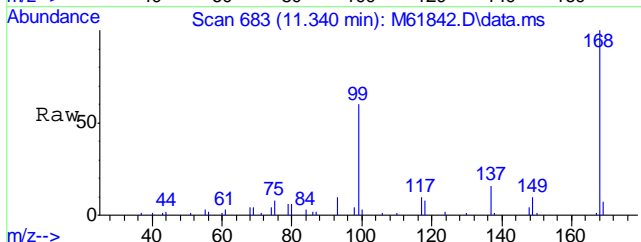
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61842.D
 Acq On : 13 Jul 2016 6:01 pm
 Operator : johannat
 Sample : C46435-3R
 Misc : MS1912,VM1859,5.07,,100,5,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 10:09:31 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

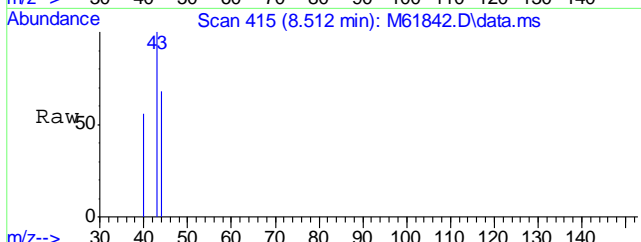




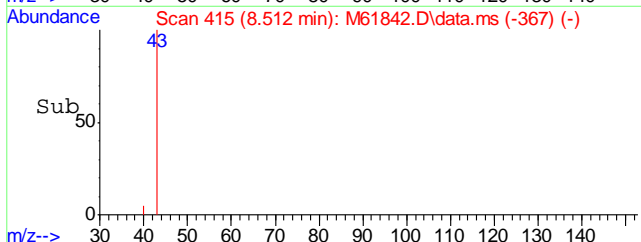
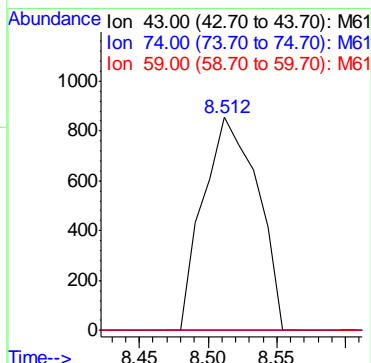
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm
 Tgt Ion:168 Resp: 142145

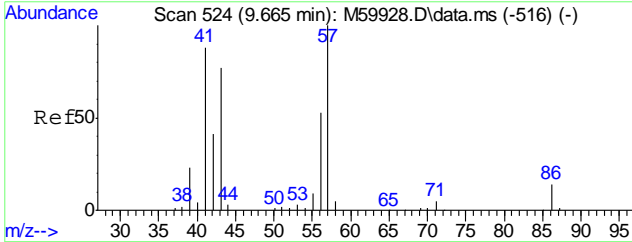


#15
 Methyl Acetate
 Concen: 0.54 ppb
 RT: 8.512 min Scan# 415
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm
 Tgt Ion: 43 Resp: 2344



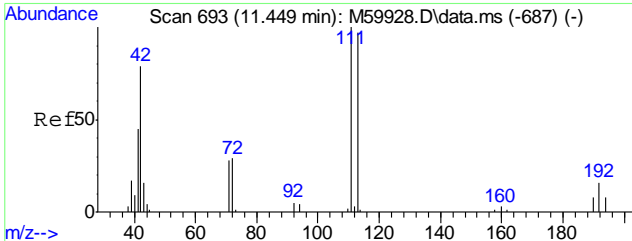
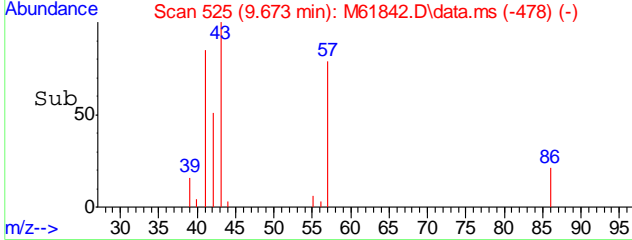
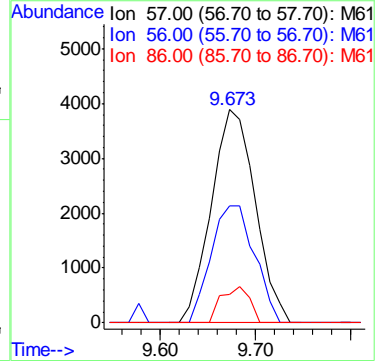
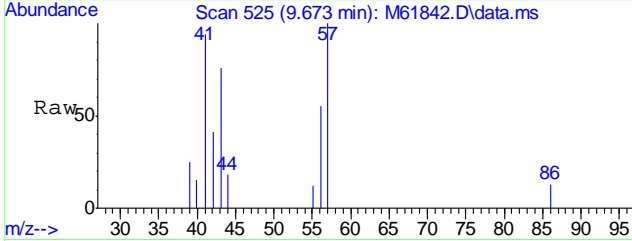
Ion	Ratio	Lower	Upper
43	100		
74	0.0	0.0	37.1
59	0.0	0.0	27.1





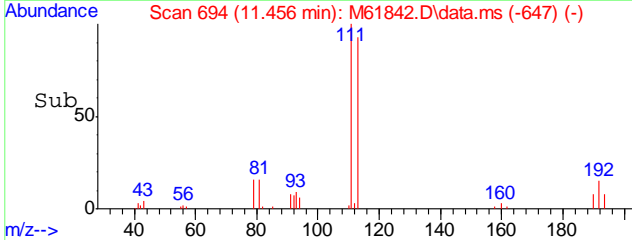
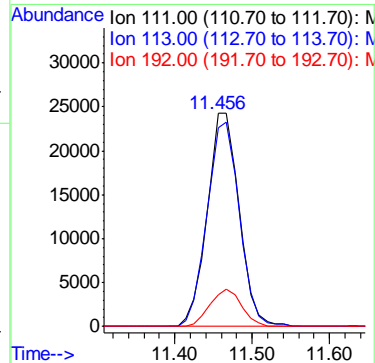
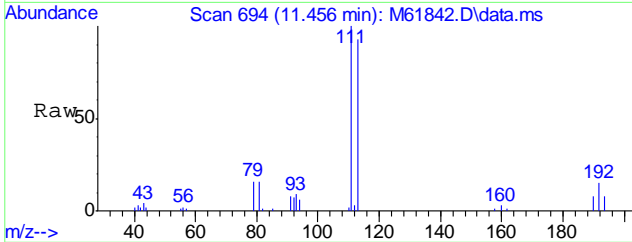
#24
Hexane
Concen: 1.66 ppb
RT: 9.673 min Scan# 525
Delta R.T. -0.003 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

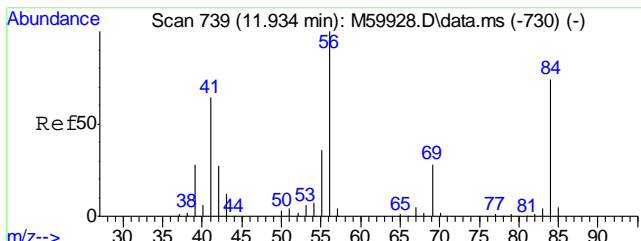
Tgt Ion	Resp	Lower	Upper
57	12431	100	
56	54.2	32.9	72.9
86	0.0	0.0	34.1



#36
Dibromofluoromethane
Concen: 19.26 ppb
RT: 11.456 min Scan# 694
Delta R.T. -0.003 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

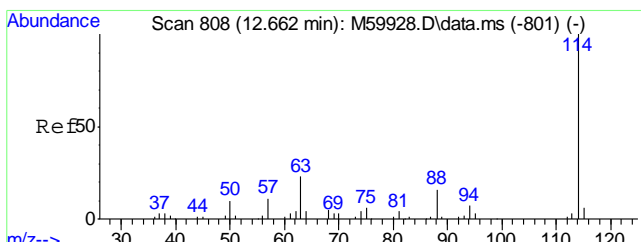
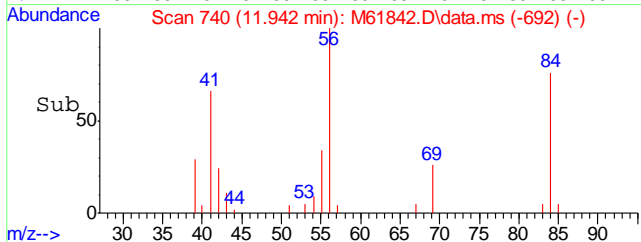
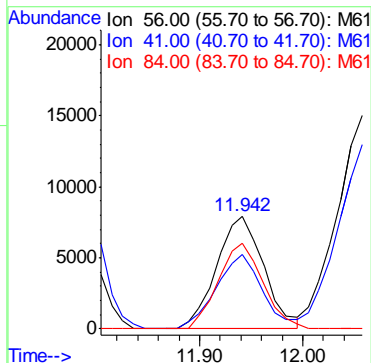
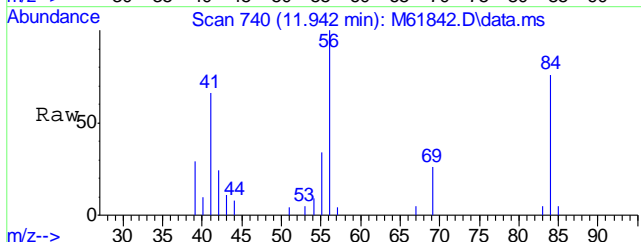
Tgt Ion	Resp	Lower	Upper
111	69426	100	
113	97.1	77.7	117.7
192	17.3	0.0	36.3





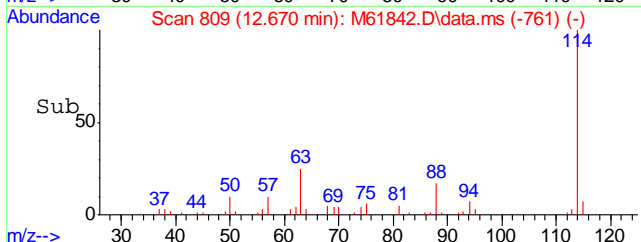
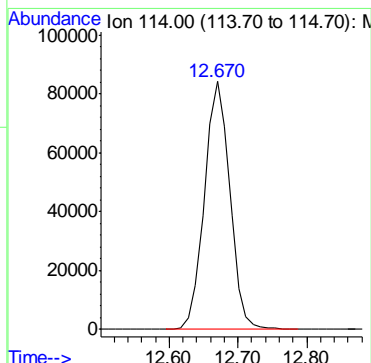
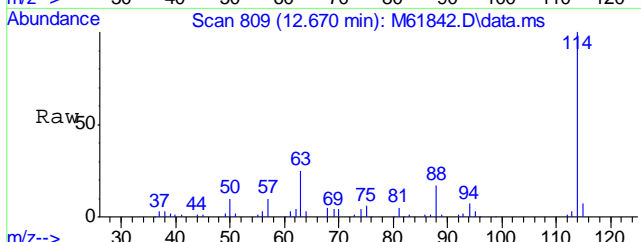
#38
Cyclohexane
Concen: 2.72 ppb
RT: 11.942 min Scan# 740
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

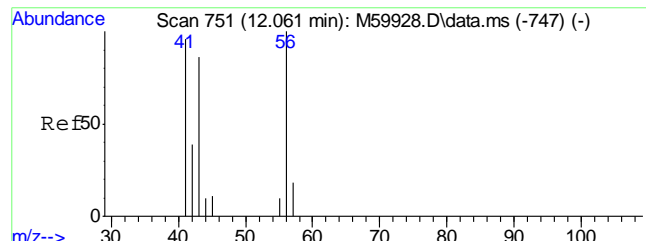
Tgt Ion	Resp	Lower	Upper
56	25202		
56	100		
41	65.1	46.3	86.3
84	71.9	56.0	96.0



#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.670 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

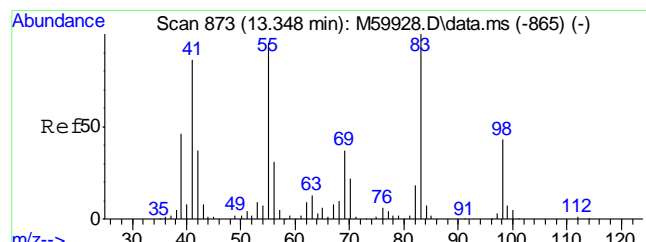
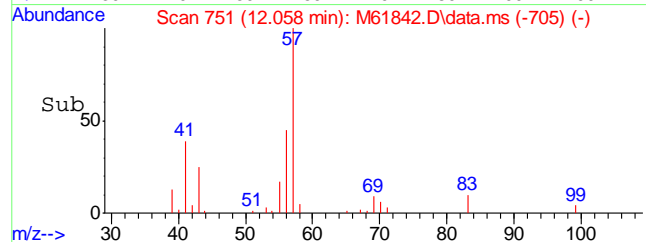
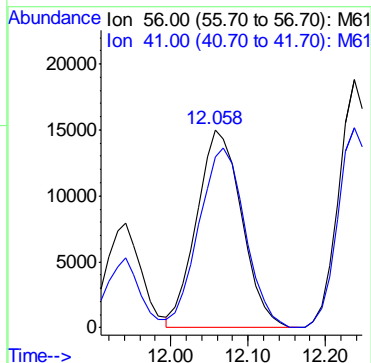
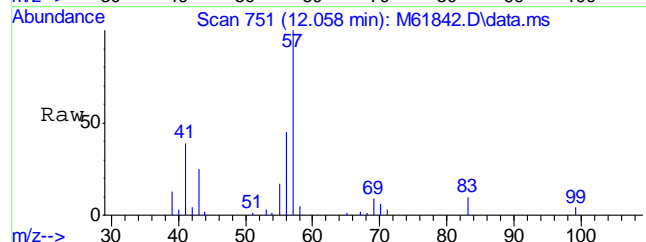
Tgt Ion	Resp
114	216223





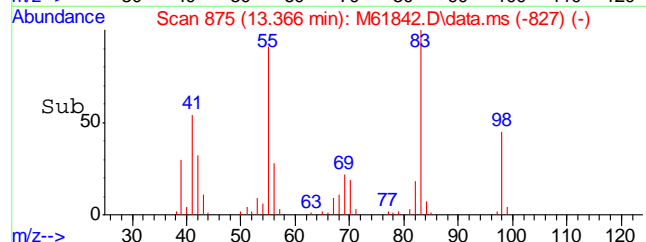
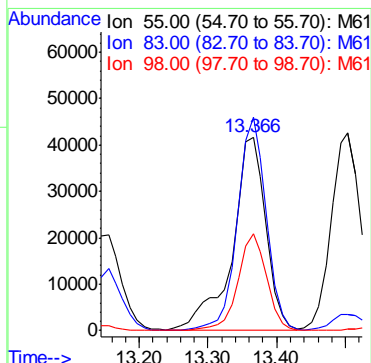
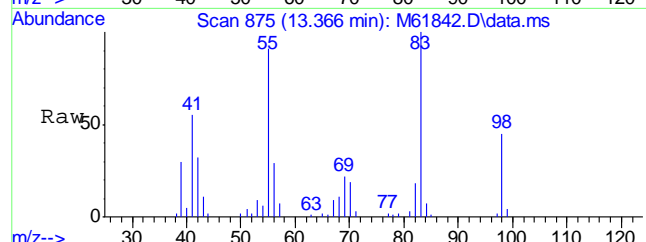
#42
n-Butyl Alcohol
Concen: 578.05 ppb
RT: 12.058 min Scan# 751
Delta R.T. -0.014 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

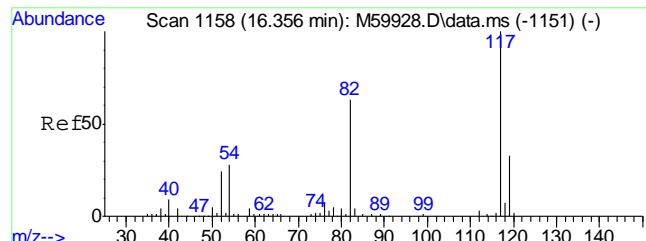
Tgt Ion	Resp	Lower	Upper
56	60533		
56	100		
41	93.4	63.5	103.5



#48
Methylcyclohexane
Concen: 18.01 ppb
RT: 13.366 min Scan# 875
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

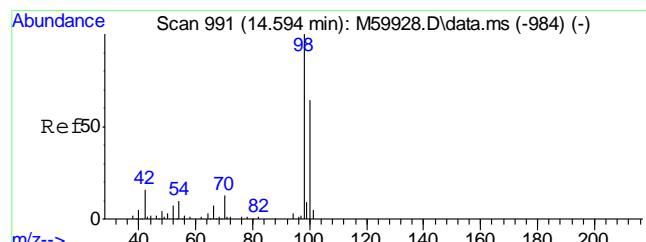
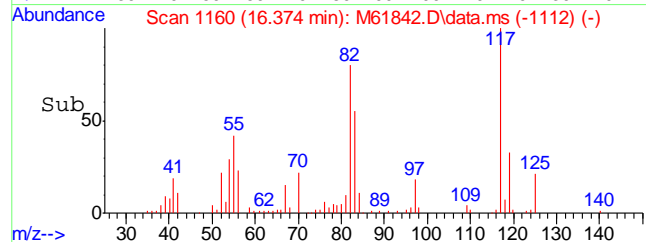
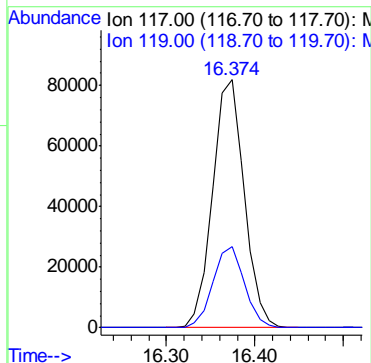
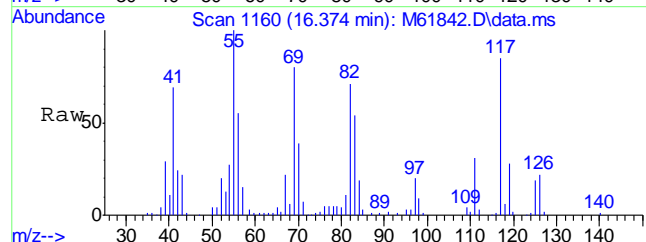
Tgt Ion	Resp	Lower	Upper
55	143127		
55	100		
83	94.0	84.5	124.5
98	42.3	27.0	67.0





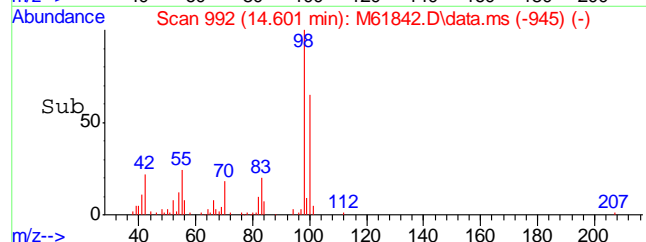
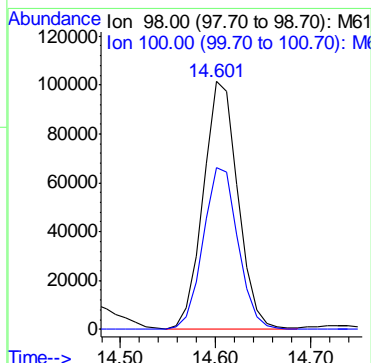
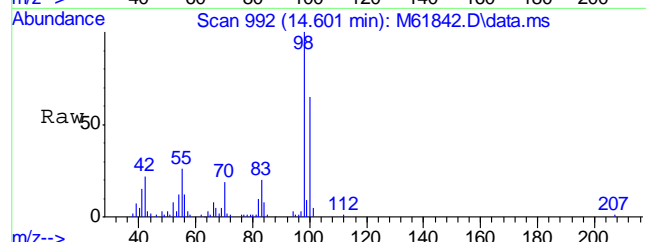
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.374 min Scan# 1160
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

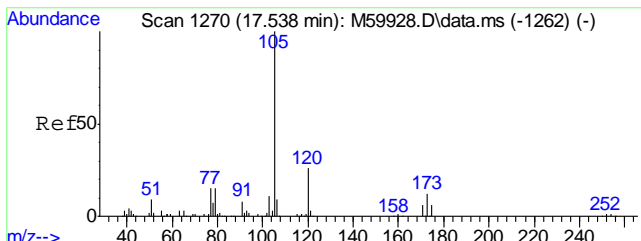
Tgt Ion	Resp	Lower	Upper
117	203741	100	
119	32.4	11.2	51.2



#56
Toluene-d8
Concen: 19.30 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

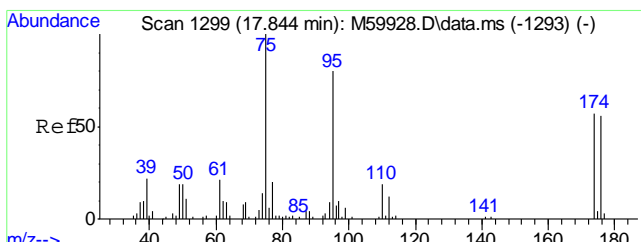
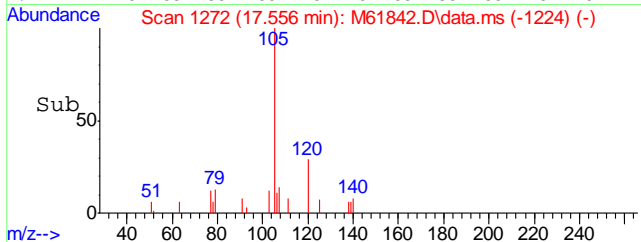
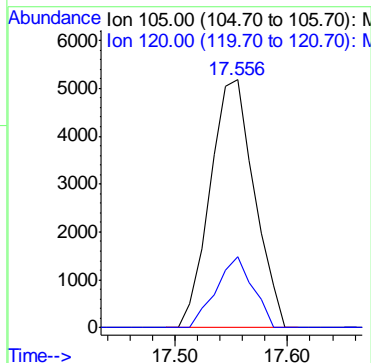
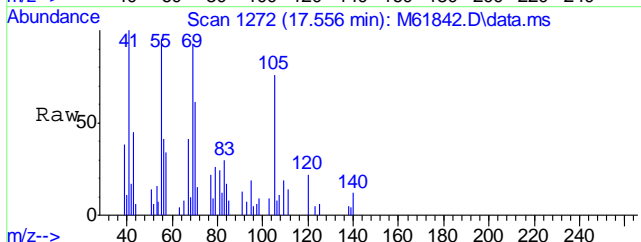
Tgt Ion	Resp	Lower	Upper
98	256686	100	
100	65.5	44.3	84.3





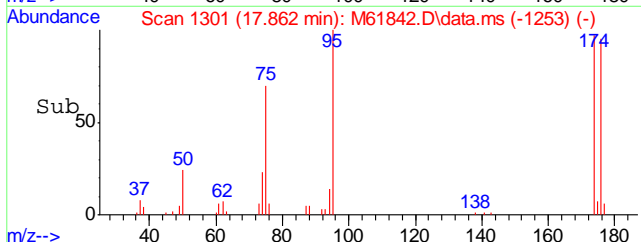
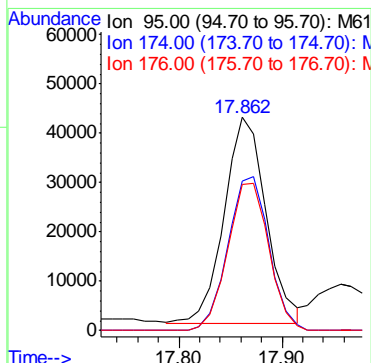
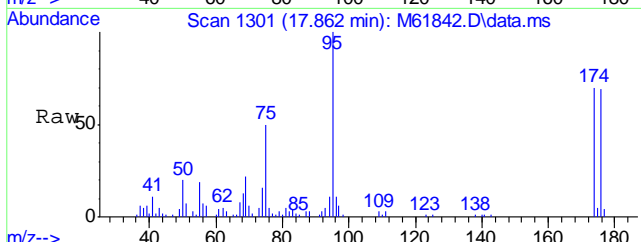
#73
Isopropylbenzene
Concen: 0.72 ppb
RT: 17.556 min Scan# 1272
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

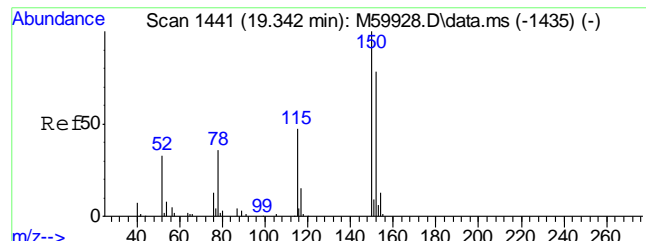
Tgt Ion	Resp	Lower	Upper
105	14144		
120	23.9	5.7	45.7



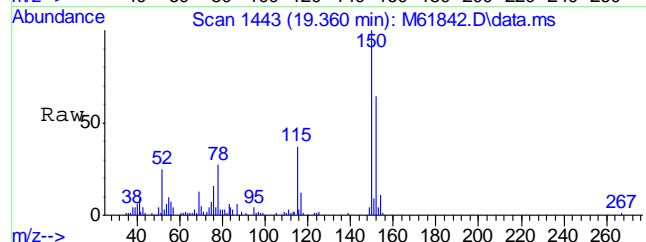
#74
4-Bromofluorobenzene
Concen: 22.66 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm

Tgt Ion	Resp	Lower	Upper
95	118447		
174	72.8	54.3	94.3
176	70.1	51.5	91.5

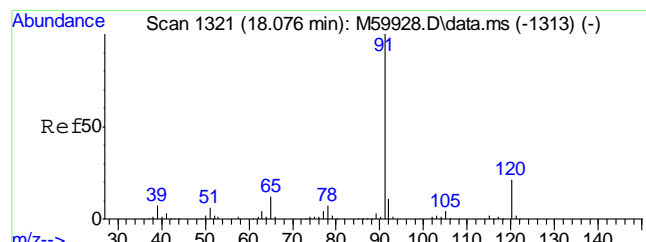
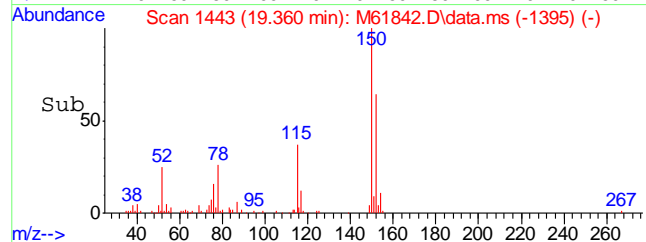
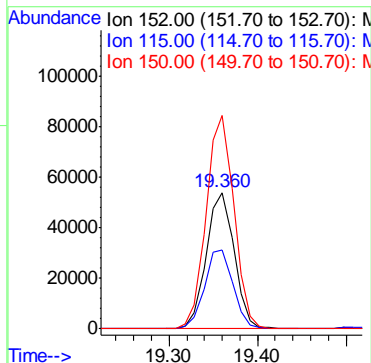




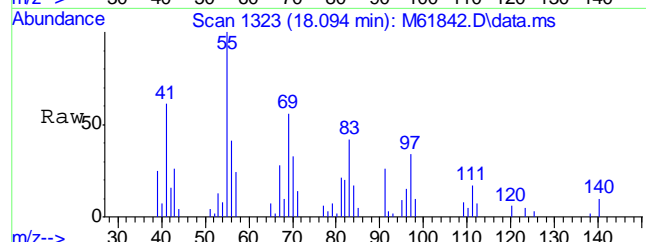
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm



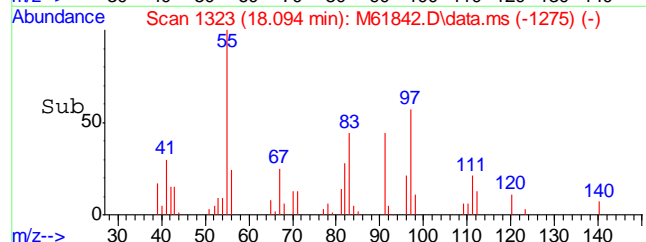
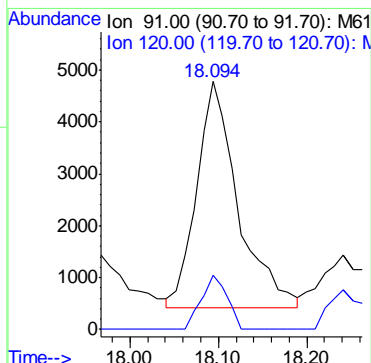
Tgt Ion	Resp	Lower	Upper
152	118908		
152	100		
115	58.6	40.9	80.9
150	154.9	178.6	218.6#

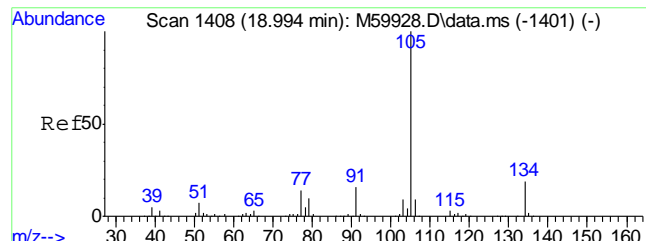


#79
n-Propylbenzene
Concen: 0.50 ppb
RT: 18.094 min Scan# 1323
Delta R.T. 0.007 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm



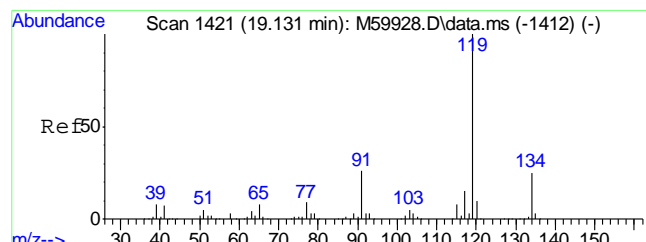
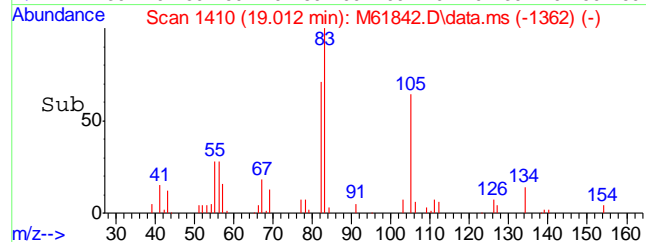
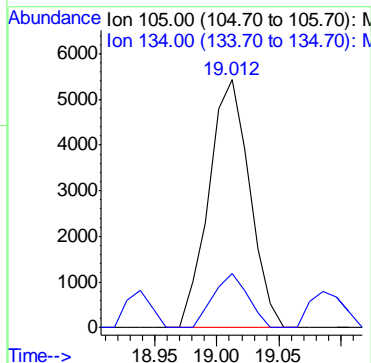
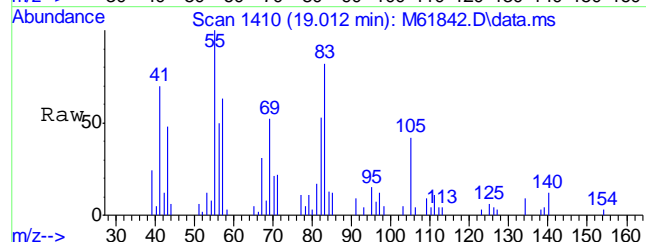
Tgt Ion	Resp	Lower	Upper
91	14170		
91	100		
120	14.9	1.3	41.3





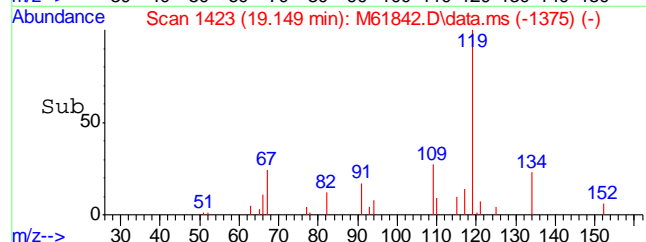
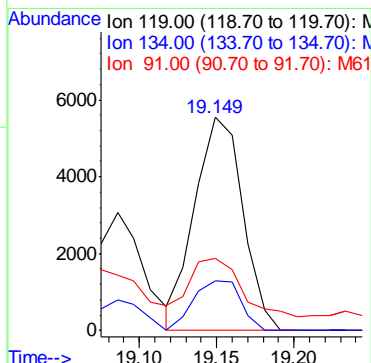
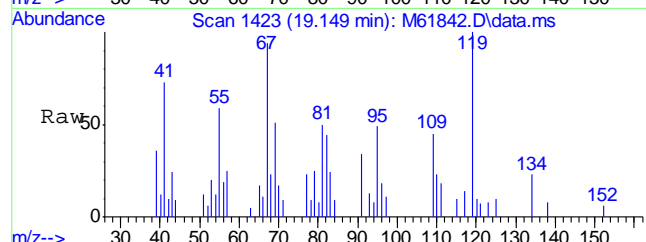
#87
 sec-Butylbenzene
 Concen: 0.51 ppb
 RT: 19.012 min Scan# 1410
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

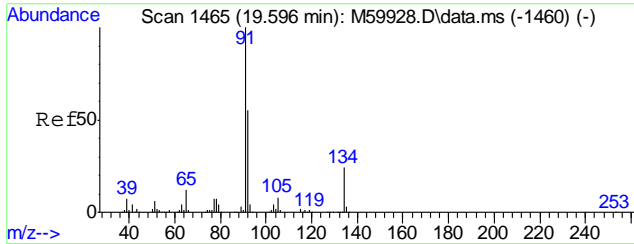
Tgt Ion	Resp	Lower	Upper
105	12492	100	
134	18.5	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 0.60 ppb
 RT: 19.149 min Scan# 1423
 Delta R.T. 0.007 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

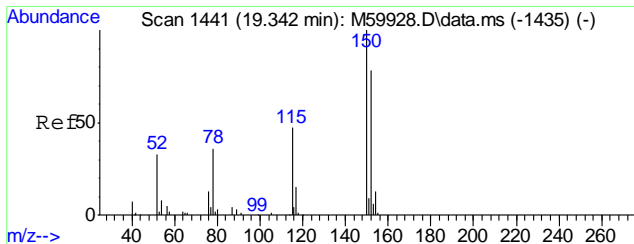
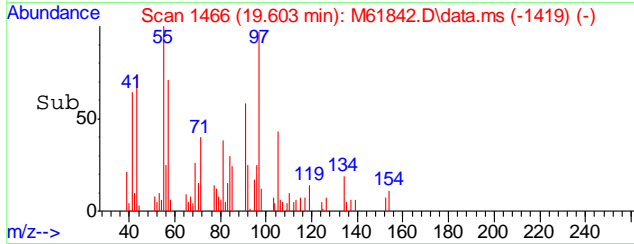
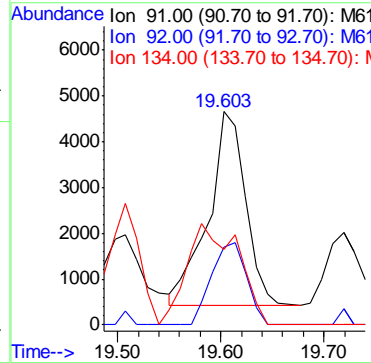
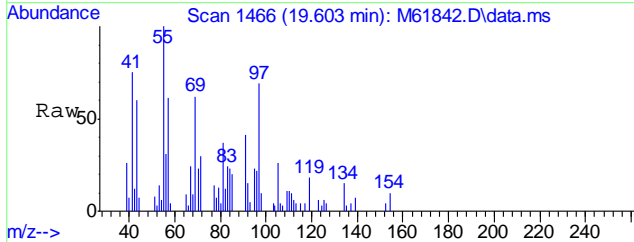
Tgt Ion	Resp	Lower	Upper
119	11950	100	
134	23.1	6.0	46.0
91	27.5	6.0	46.0





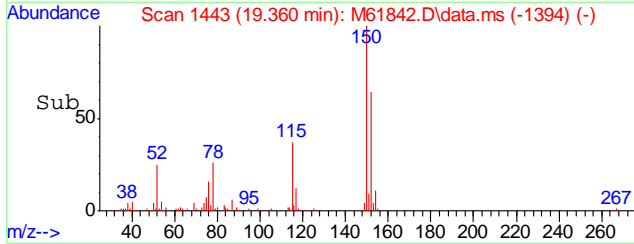
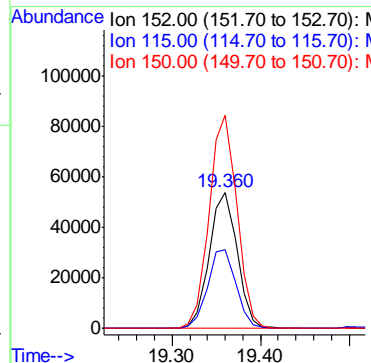
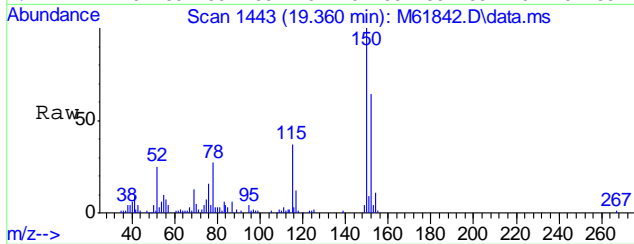
#92
 n-Butylbenzene
 Concen: 0.52 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

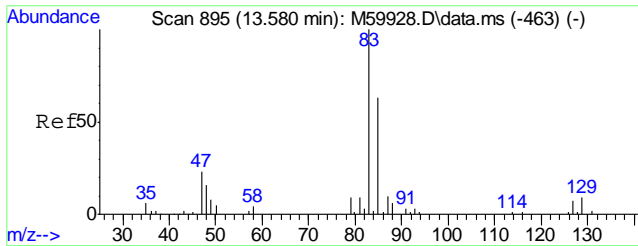
Tgt Ion	Resp	Lower	Upper
91	10574		
92	40.1	35.3	75.3
134	72.4	3.6	43.6#



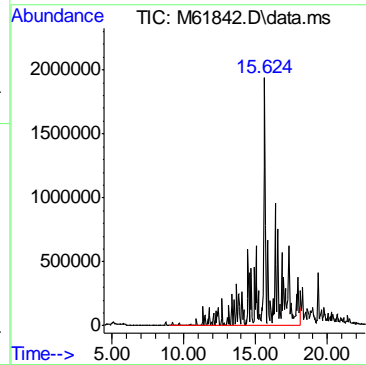
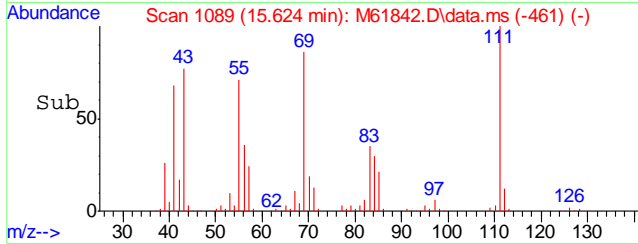
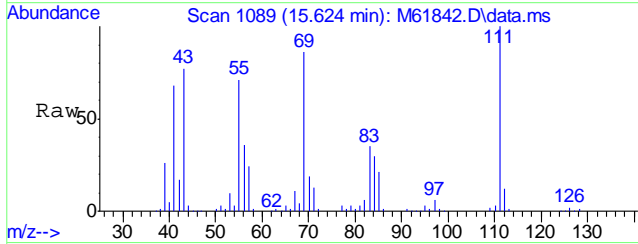
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61842.D
 Acq: 13 Jul 2016 6:01 pm

Tgt Ion	Resp	Lower	Upper
152	118908		
152	100		
115	58.6	37.3	77.3
150	154.9	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 1973.07 ppb m
RT: 15.624 min Scan# 1089
Delta R.T. 2.074 min
Lab File: M61842.D
Acq: 13 Jul 2016 6:01 pm
Tgt Ion:TIC Resp:61512113



6.1.6
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49980.D
 Acq On : 12 Jul 2016 4:43 pm
 Operator : johannat
 Sample : C46435-4R
 Misc : MS1912,VL1499,5.13,,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 02 11:00:28 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

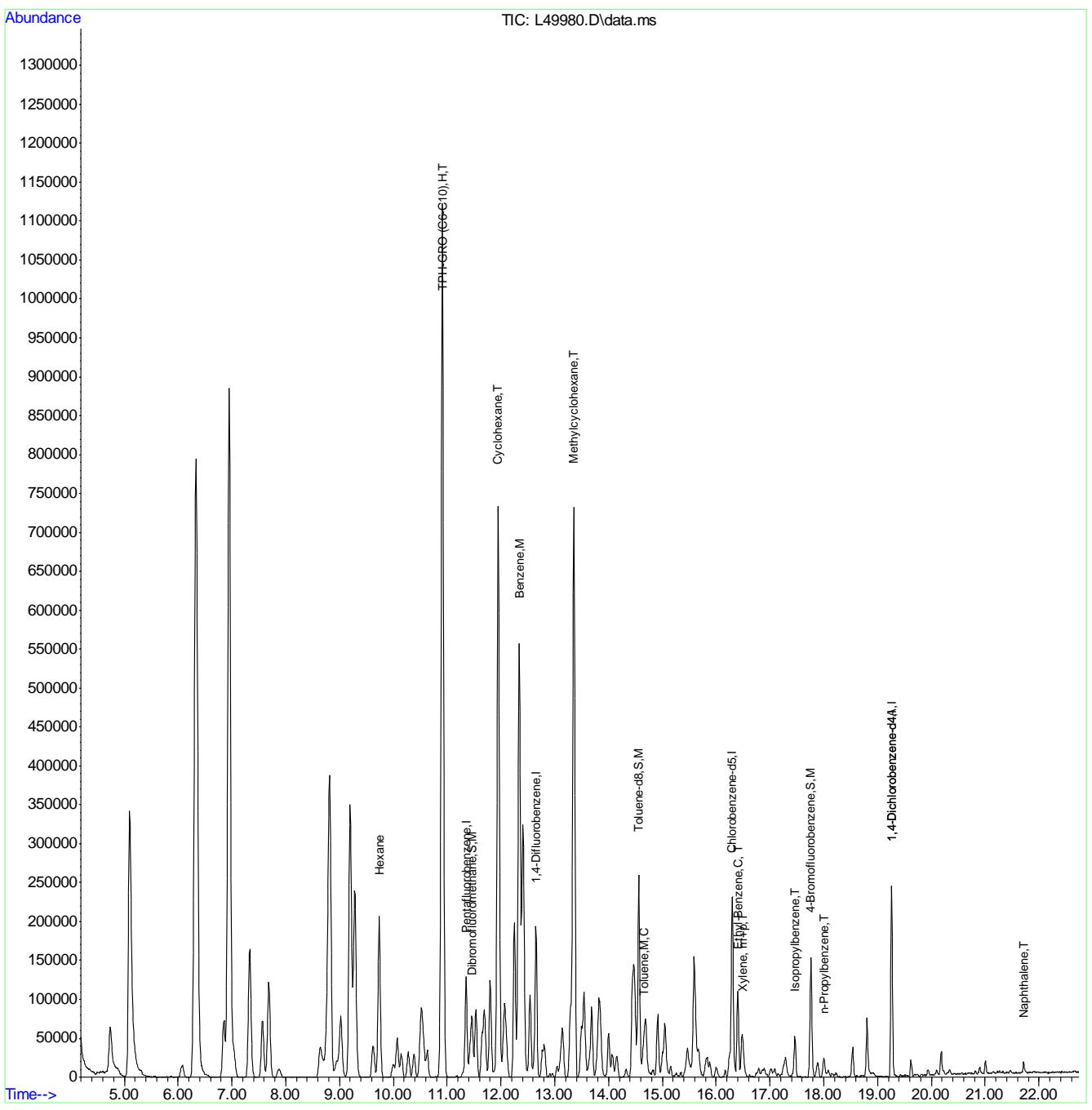
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.356	168	1046153	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.655	114	1813343	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.300	117	1548348	20.00	ug/Kg	-0.01
77) 1,4-Dichlorobenzene-d4	19.263	152	743565	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	743565	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.466	111	588118	18.78	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	93.90%		
56) Toluene-d8	14.559	98	2122115	19.41	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery =	97.05%		
74) 4-Bromofluorobenzene	17.762	95	867456	19.09	ug/Kg	-0.01
Spiked Amount	20.000	Range 81 - 115	Recovery =	95.45%		
Target Compounds						
						Qvalue
24) Hexane	9.741	57	1510837	45.76	ug/Kg	97
38) Cyclohexane	11.946	56	5129600	108.83	ug/Kg	96
45) Benzene	12.339	78	4383116	32.44	ug/Kg	100
48) Methylcyclohexane	13.353	55	3816503	89.89	ug/Kg	98
57) Toluene	14.652	92	102197	1.33	ug/Kg	99
67) Ethyl Benzene	16.404	91	1028827	6.88	ug/Kg	99
68) Xylene, m+p	16.491	106	45895	0.86	ug/Kg#	84
73) Isopropylbenzene	17.462	105	544209	4.04	ug/Kg	97
79) n-Propylbenzene	18.002	91	350294	2.03	ug/Kg	98
97) Naphthalene	21.713	128	159964	1.42	ug/Kg	100
100) TPH-GRO (C6-C10)	10.909	TIC	257855550m	1264.60	ug/Kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

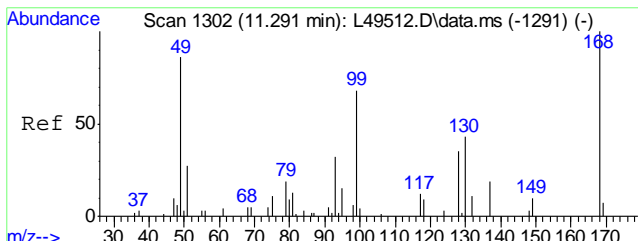
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49980.D
Acq On : 12 Jul 2016 4:43 pm
Operator : johannat
Sample : C46435-4R
Misc : MS1912,VL1499,5.13,,,,,1
ALS Vial : 13 Sample Multiplier: 1

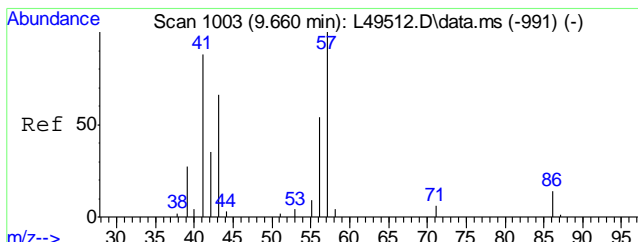
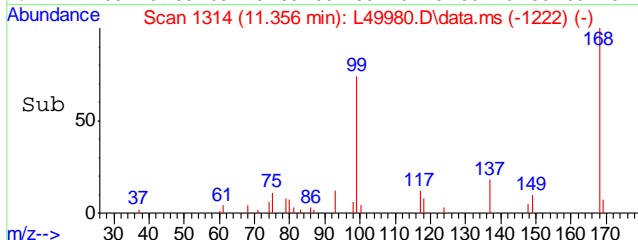
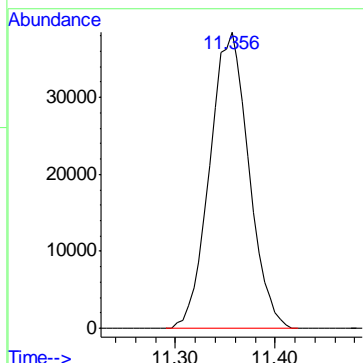
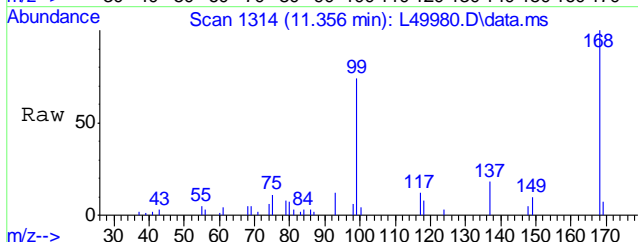
Quant Time: Aug 02 11:00:28 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration



6.1.7
6



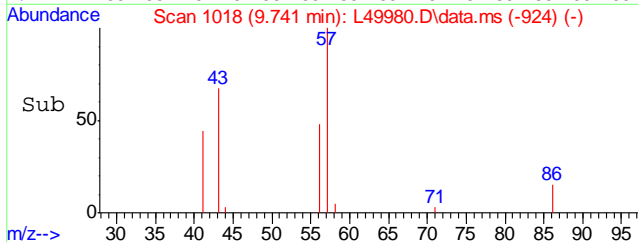
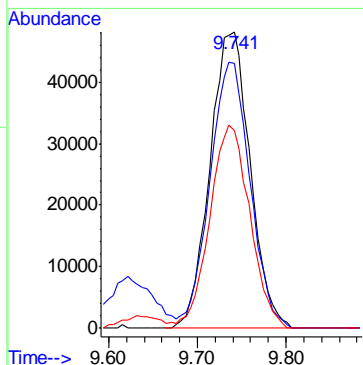
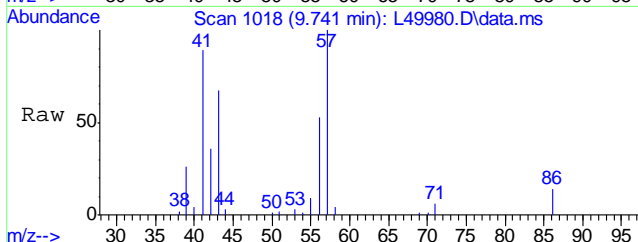
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.356 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm
 Tgt Ion:168 Resp: 1046153

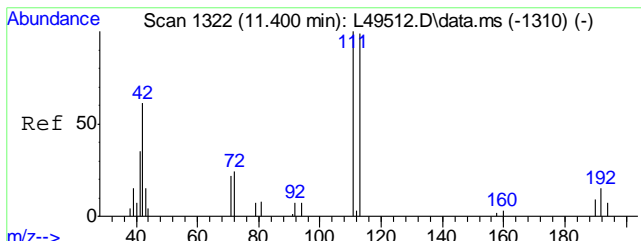


#24
 Hexane
 Concen: 45.76 ug/Kg
 RT: 9.741 min Scan# 1018
 Delta R.T. 0.011 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

Tgt Ion: 57 Resp: 1510837

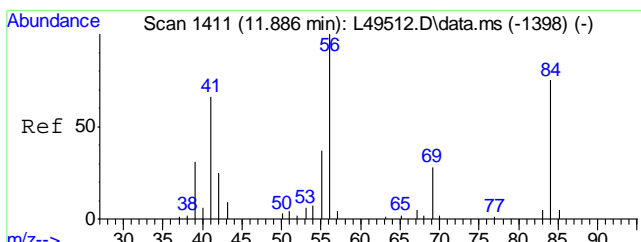
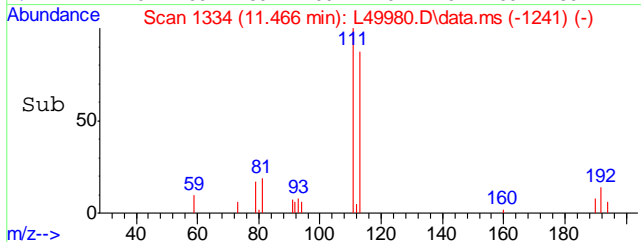
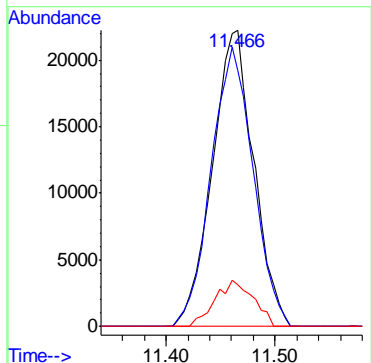
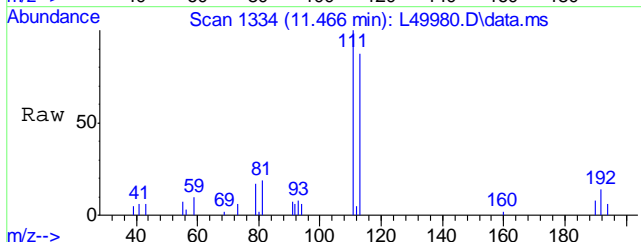
Ion	Ratio	Lower	Upper
57	100		
41	90.0	73.8	110.8
43	68.1	56.6	84.8





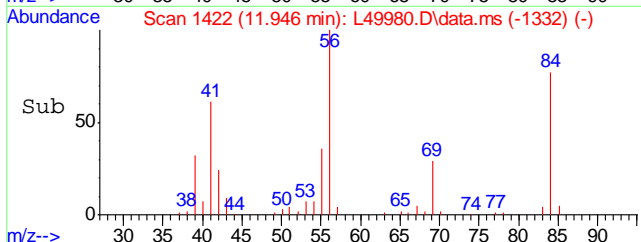
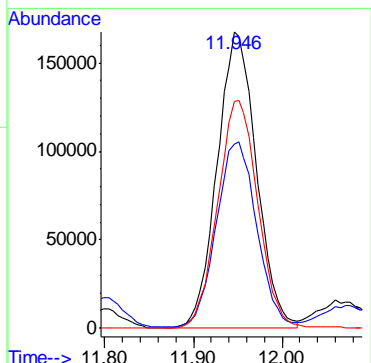
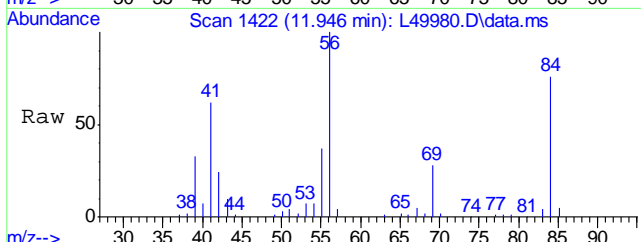
#36
 Dibromofluoromethane
 Concen: 18.78 ug/Kg
 RT: 11.466 min Scan# 1334
 Delta R.T. 0.006 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

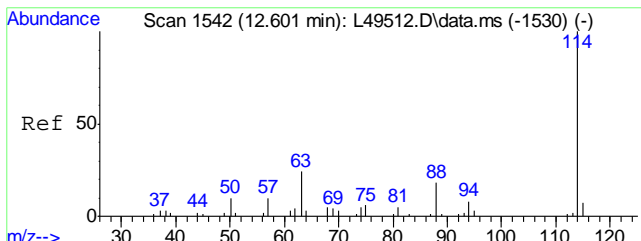
Tgt Ion	Resp	Lower	Upper
111	100		
113	95.5	78.6	118.6
192	14.3	0.0	34.1



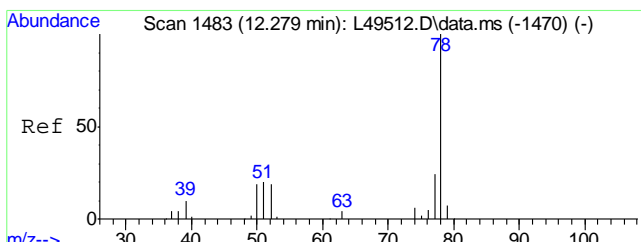
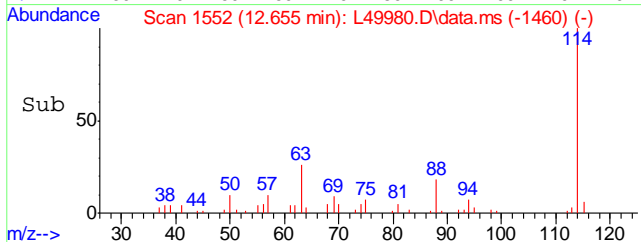
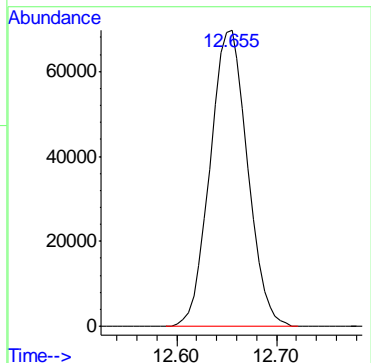
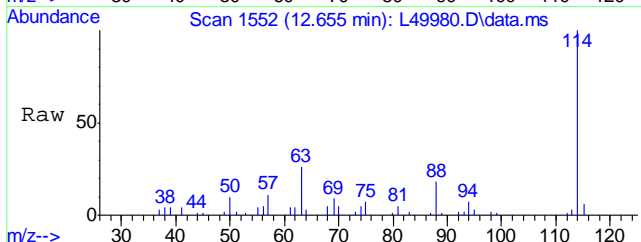
#38
 Cyclohexane
 Concen: 108.83 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.011 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

Tgt Ion	Resp	Lower	Upper
56	100		
41	64.3	53.7	80.5
84	78.7	60.5	90.7

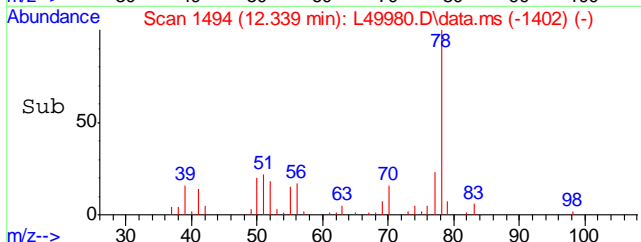
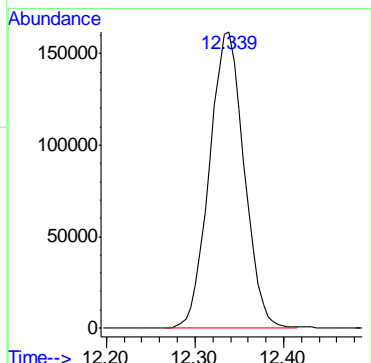
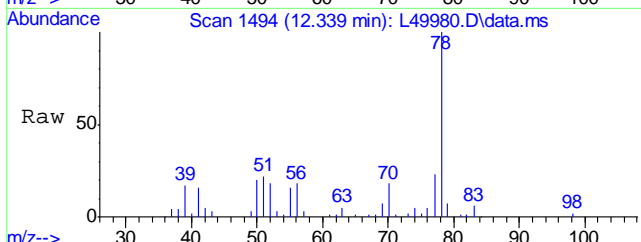


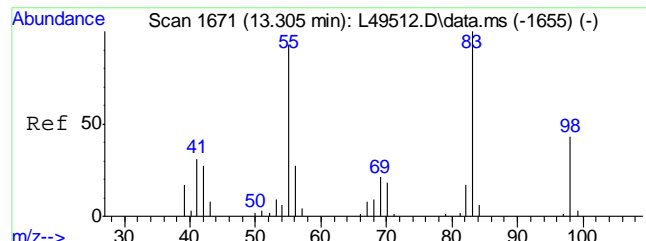


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.655 min Scan# 1552
 Delta R.T. 0.000 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm
 Tgt Ion:114 Resp: 1813343



#45
 Benzene
 Concen: 32.44 ug/Kg
 RT: 12.339 min Scan# 1494
 Delta R.T. 0.000 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm
 Tgt Ion: 78 Resp: 4383116

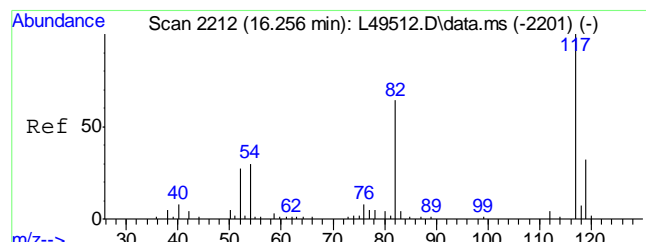
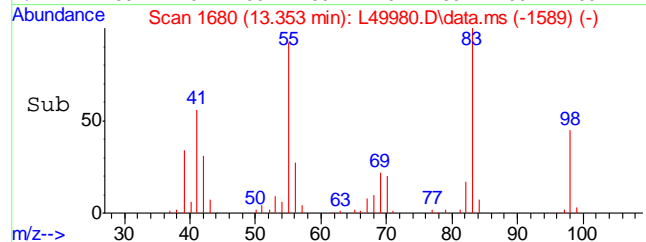
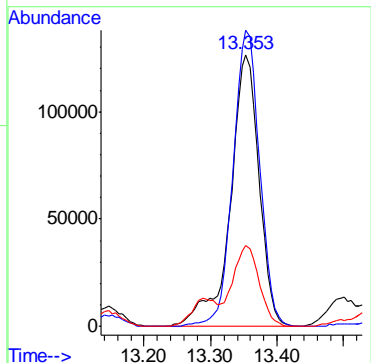
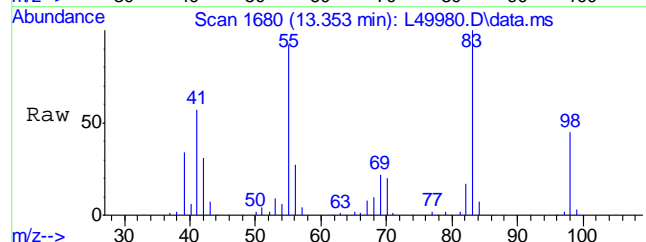




#48
Methylcyclohexane
Concen: 89.89 ug/Kg
RT: 13.353 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

Tgt Ion: 55 Resp: 3816503

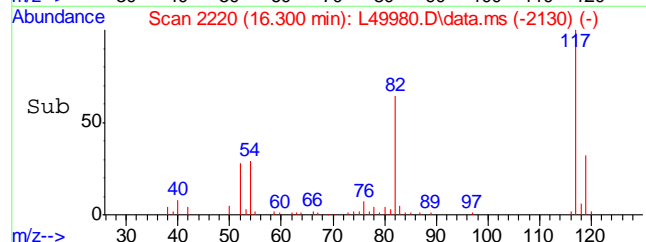
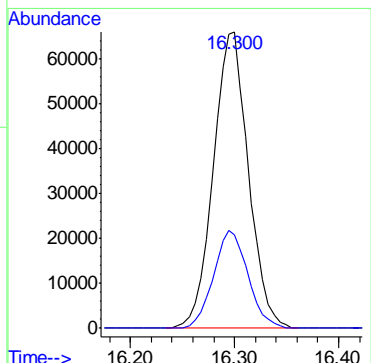
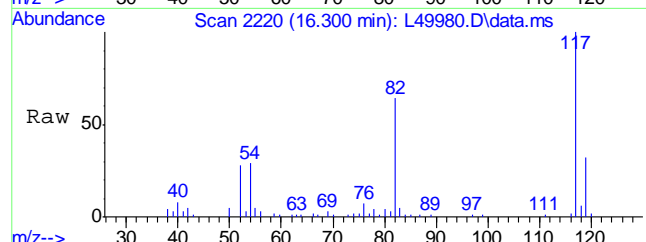
Ion	Ratio	Lower	Upper
55	100		
83	100.9	80.6	120.6
56	27.2	11.5	51.5

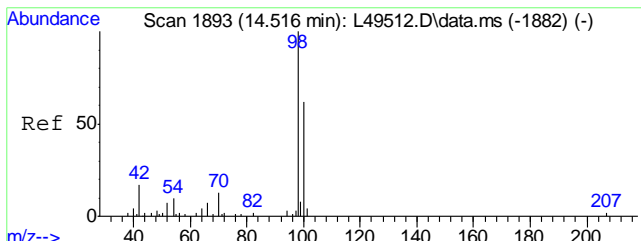


#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.300 min Scan# 2220
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

Tgt Ion: 117 Resp: 1548348

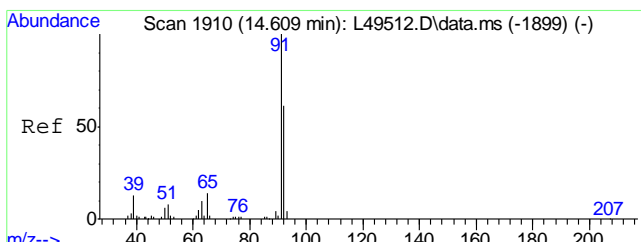
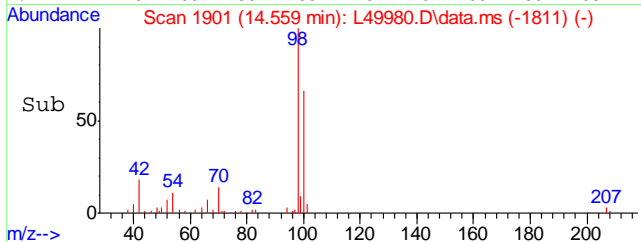
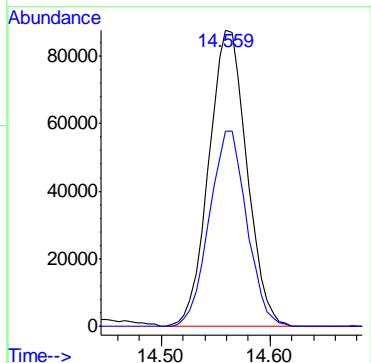
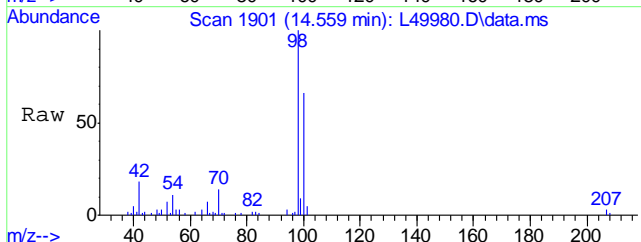
Ion	Ratio	Lower	Upper
117	100		
119	32.4	10.2	50.2





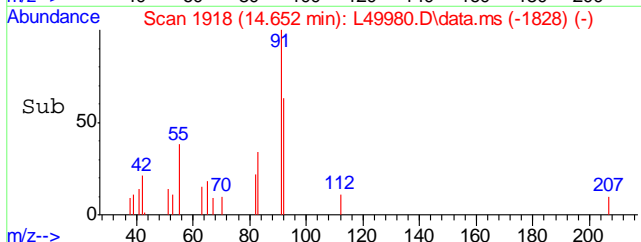
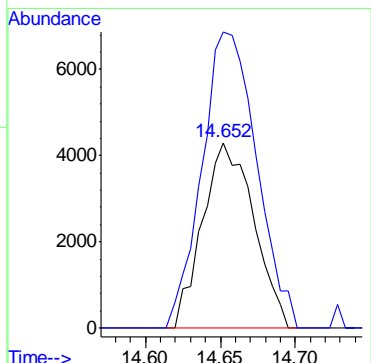
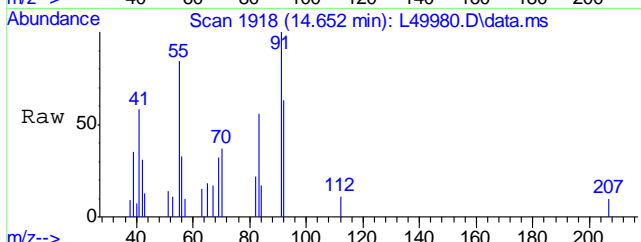
#56
Toluene-d8
Concen: 19.41 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

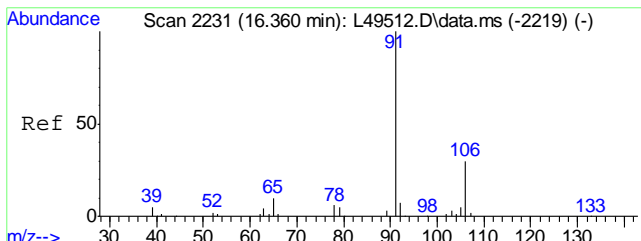
Tgt Ion: 98 Resp: 2122115
Ion Ratio Lower Upper
98 100
100 64.9 45.2 85.2



#57
Toluene
Concen: 1.33 ug/Kg
RT: 14.652 min Scan# 1918
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

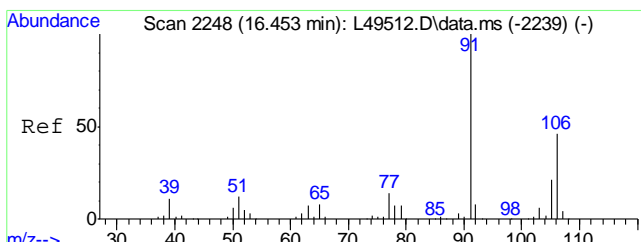
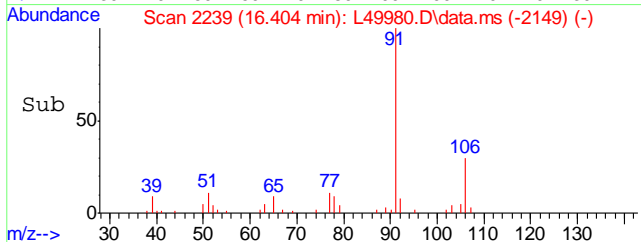
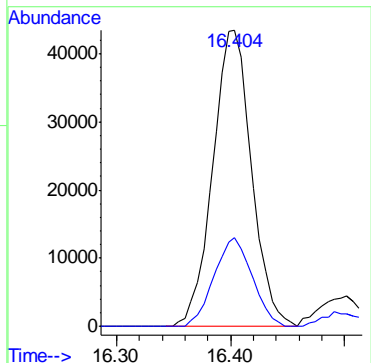
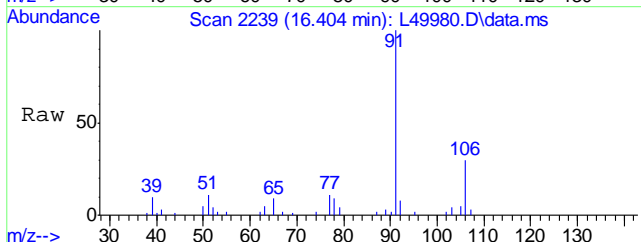
Tgt Ion: 92 Resp: 102197
Ion Ratio Lower Upper
92 100
91 170.9 149.2 189.2





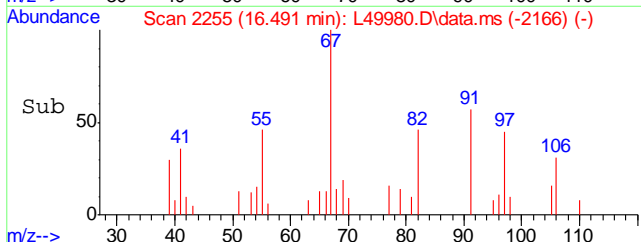
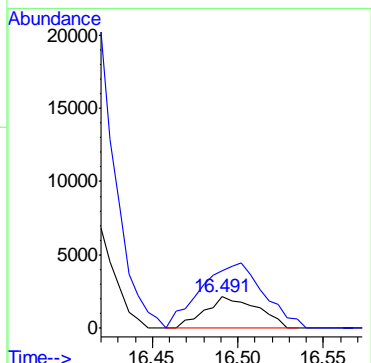
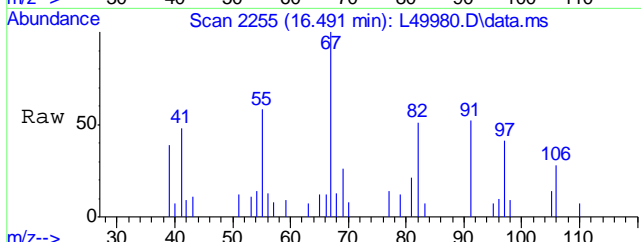
#67
Ethyl Benzene
Concen: 6.88 ug/Kg
RT: 16.404 min Scan# 2239
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

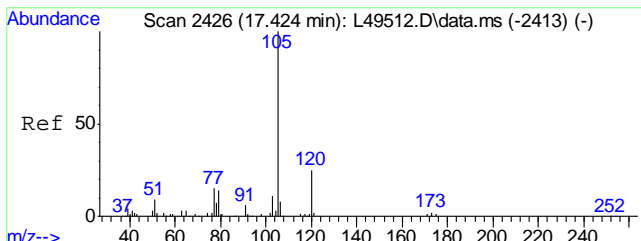
Tgt Ion	Resp	Lower	Upper
91	1028827	100	
106	29.4	8.6	48.6



#68
Xylene, m+p
Concen: 0.86 ug/Kg
RT: 16.491 min Scan# 2255
Delta R.T. -0.016 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

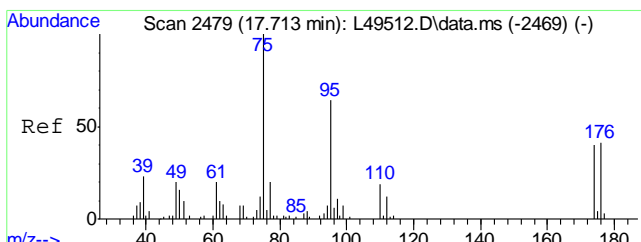
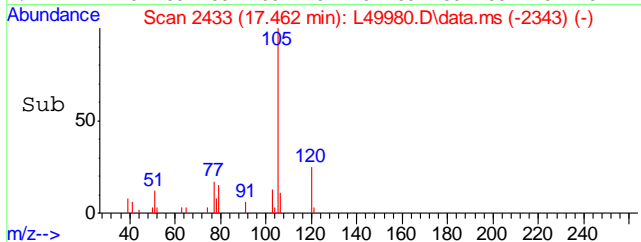
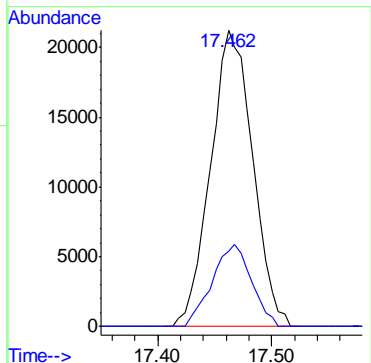
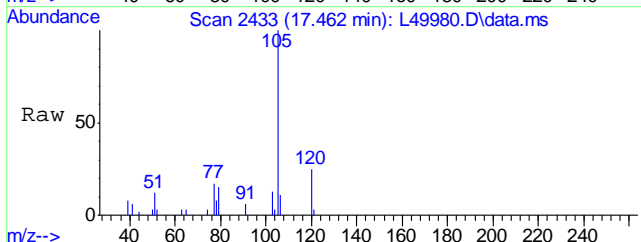
Tgt Ion	Resp	Lower	Upper
106	45895	100	
91	248.5	202.1	242.1#





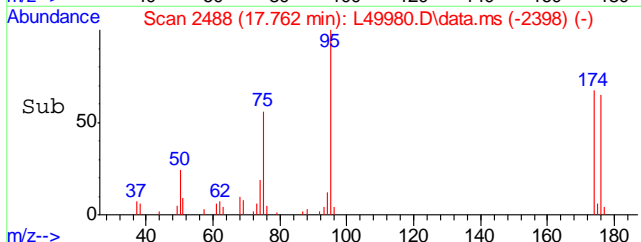
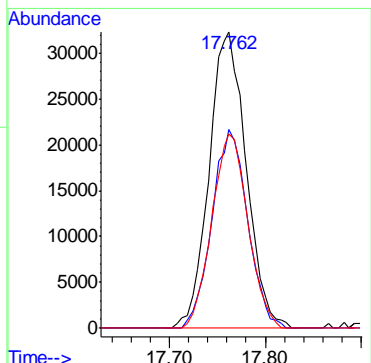
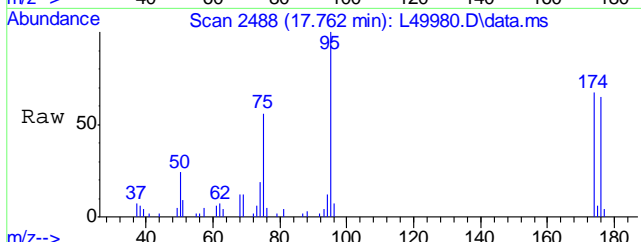
#73
Isopropylbenzene
Concen: 4.04 ug/Kg
RT: 17.462 min Scan# 2433
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

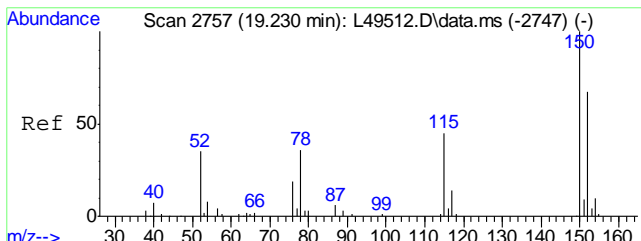
Tgt Ion	Resp	Lower	Upper
105	544209	100	
120	25.7	4.1	44.1



#74
4-Bromofluorobenzene
Concen: 19.09 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

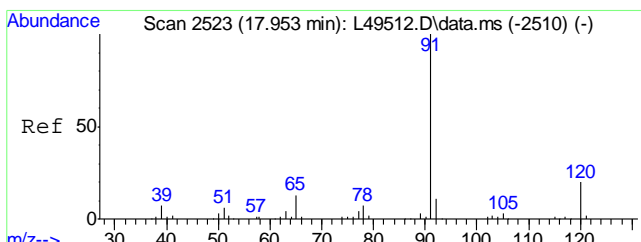
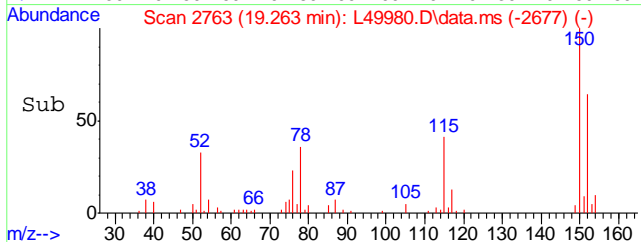
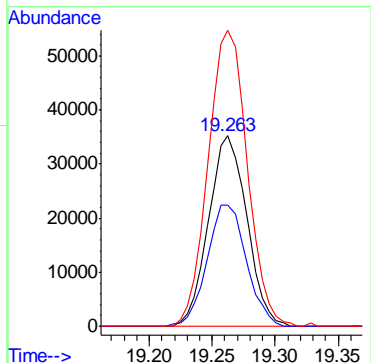
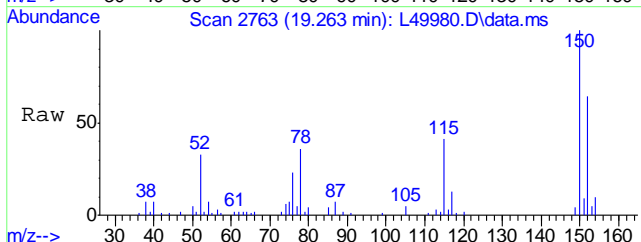
Tgt Ion	Resp	Lower	Upper
95	867456	100	
174	64.5	41.6	81.6
176	63.8	39.6	79.6





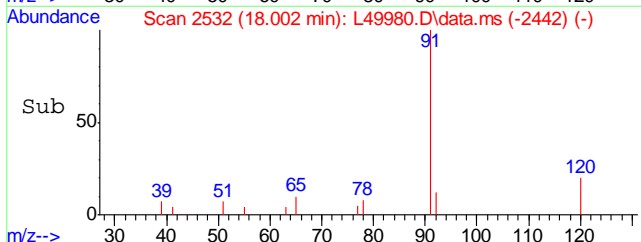
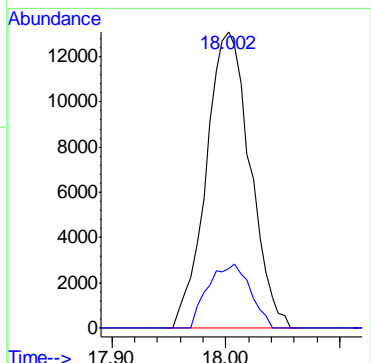
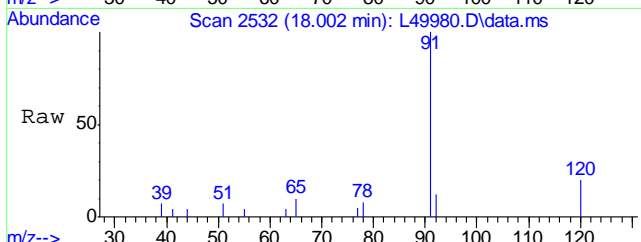
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

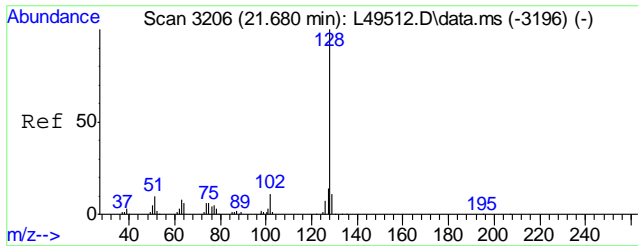
Tgt Ion	Resp	Lower	Upper
152	100		
115	65.2	48.8	88.8
150	158.5	174.3	214.3#



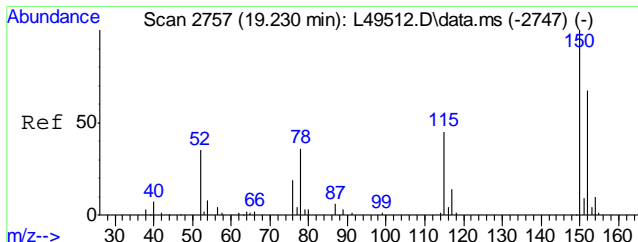
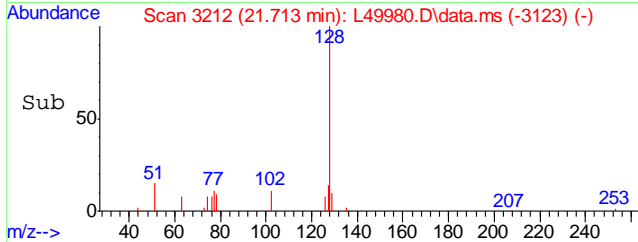
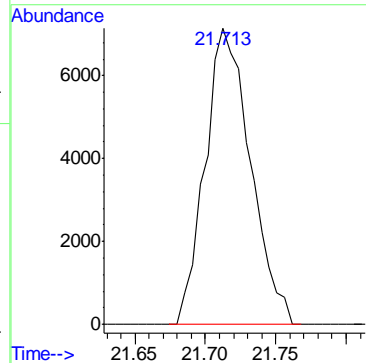
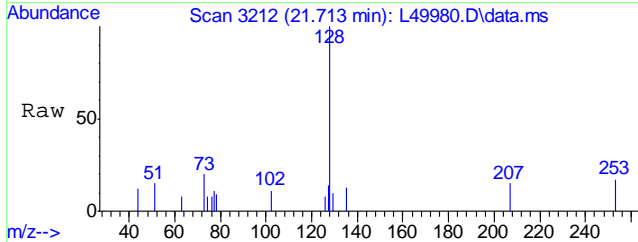
#79
n-Propylbenzene
Concen: 2.03 ug/Kg
RT: 18.002 min Scan# 2532
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

Tgt Ion	Resp	Lower	Upper
91	100		
120	20.6	0.0	39.7





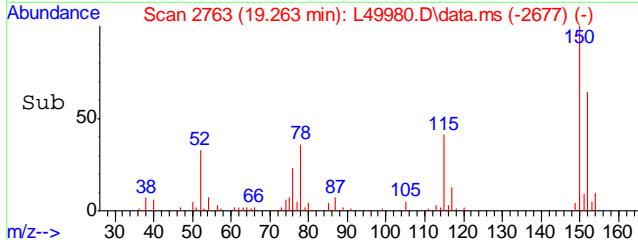
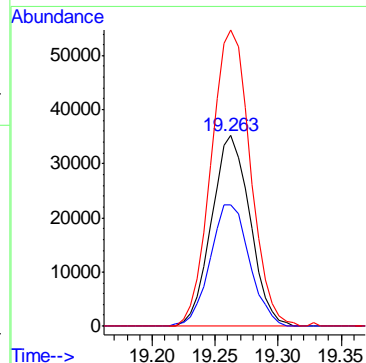
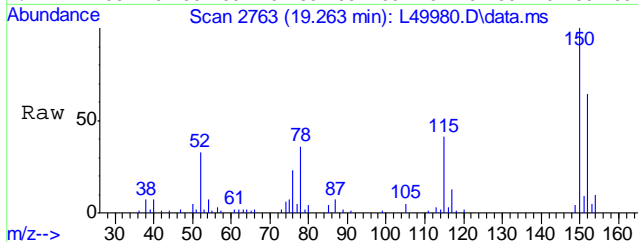
#97
Naphthalene
Concen: 1.42 ug/Kg
RT: 21.713 min Scan# 3212
Delta R.T. -0.016 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm
Tgt Ion:128 Resp: 159964

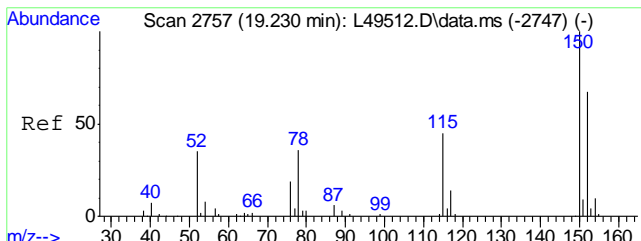


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

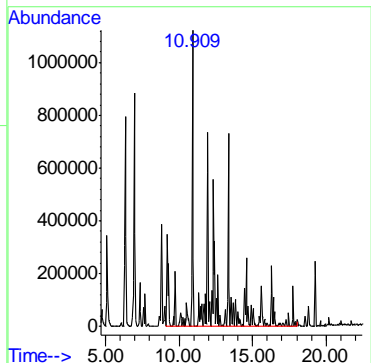
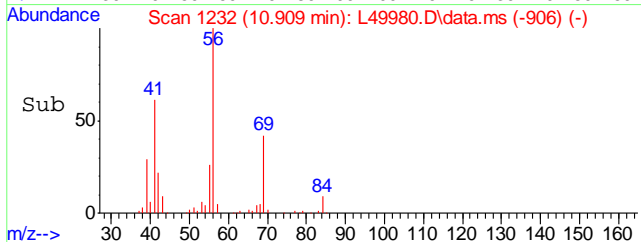
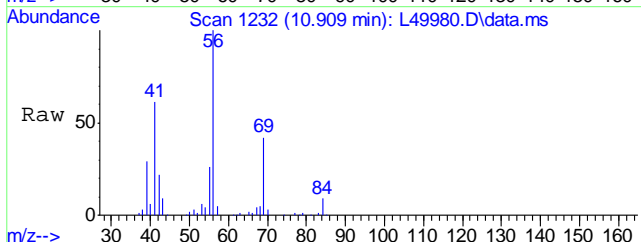
Tgt Ion:152 Resp: 743565

Ion	Ratio	Lower	Upper
152	100		
115	65.2	41.6	81.6
150	158.5	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 1264.60 ug/Kg m
RT: 10.909 min Scan# 1232
Delta R.T. -3.617 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm
Tgt Ion:TIC Resp:257855550



6.1.7
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49980.D
 Acq On : 12 Jul 2016 4:43 pm
 Operator : johannat
 Sample : C46435-4R
 Misc : MS1912,VL1499,5.13,,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 02 11:00:28 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

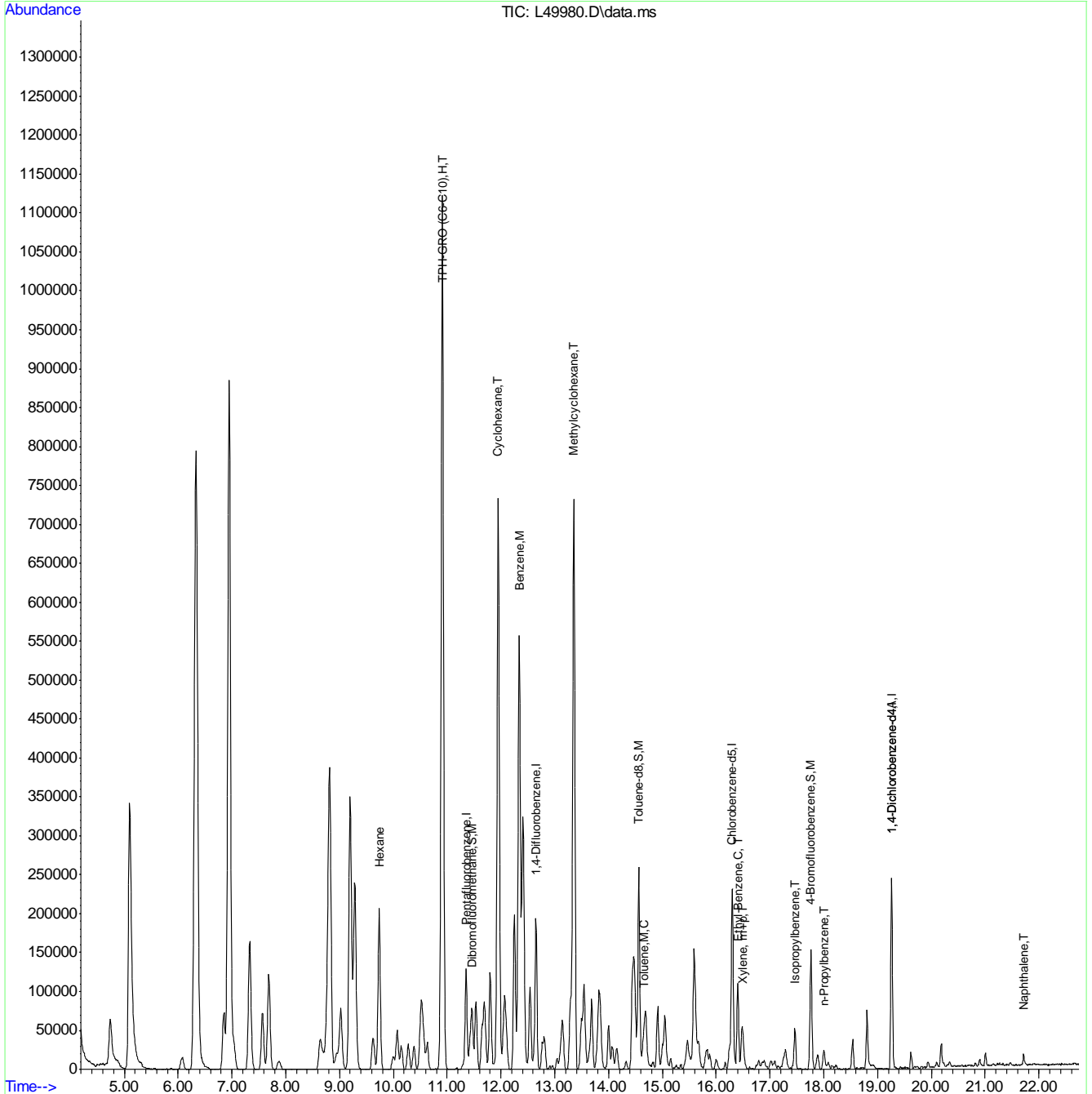
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	11.356	168	1046153	20.00	ug/Kg	0.00	
40) 1,4-Difluorobenzene	12.655	114	1813343	20.00	ug/Kg	0.00	
55) Chlorobenzene-d5	16.300	117	1548348	20.00	ug/Kg	-0.01	
77) 1,4-Dichlorobenzene-d4	19.263	152	743565	20.00	ug/Kg	-0.03	
99) 1,4-Dichlorobenzene-d4A	19.263	152	743565	20.00	ug/Kg	-0.03	
System Monitoring Compounds							
36) Dibromofluoromethane	11.466	111	588118	18.78	ug/Kg	0.00	
Spiked Amount	20.000	Range 72 - 140	Recovery	=	93.90%		
56) Toluene-d8	14.559	98	2122115	19.41	ug/Kg	-0.01	
Spiked Amount	20.000	Range 87 - 113	Recovery	=	97.05%		
74) 4-Bromofluorobenzene	17.762	95	867456	19.09	ug/Kg	-0.01	
Spiked Amount	20.000	Range 81 - 115	Recovery	=	95.45%		
Target Compounds							
							Qvalue
24) Hexane	9.741	57	1510837	45.76	ug/Kg		97
38) Cyclohexane	11.946	56	5129600	108.83	ug/Kg		96
45) Benzene	12.339	78	4383116	32.44	ug/Kg		100
48) Methylcyclohexane	13.353	55	3816503	89.89	ug/Kg		98
57) Toluene	14.652	92	102197	1.33	ug/Kg		99
67) Ethyl Benzene	16.404	91	1028827	6.88	ug/Kg		99
68) Xylene, m+p	16.491	106	45895	0.86	ug/Kg#		84
73) Isopropylbenzene	17.462	105	544209	4.04	ug/Kg		97
79) n-Propylbenzene	18.002	91	350294	2.03	ug/Kg		98
97) Naphthalene	21.713	128	159964	1.42	ug/Kg		100
100) TPH-GRO (C6-C10)	10.909	TIC	257855550m	1264.60	ug/Kg		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

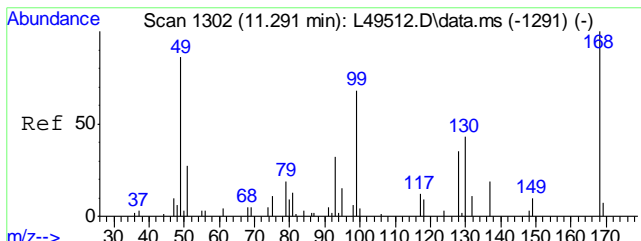
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49980.D
Acq On : 12 Jul 2016 4:43 pm
Operator : johannat
Sample : C46435-4R
Misc : MS1912,VL1499,5.13,,,,,1
ALS Vial : 13 Sample Multiplier: 1

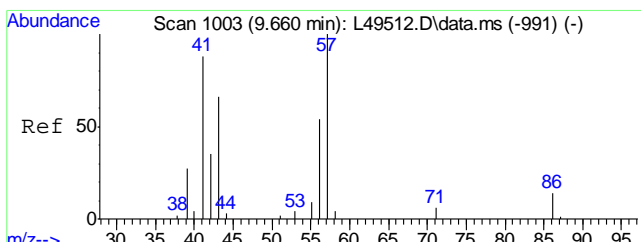
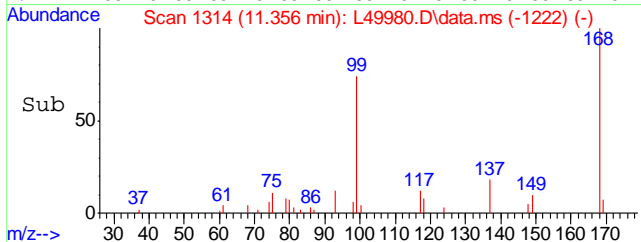
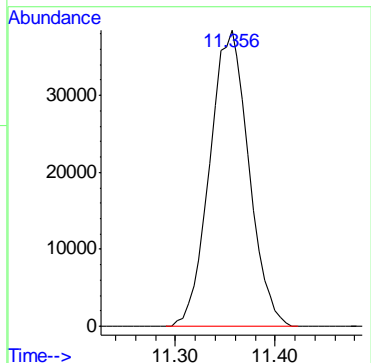
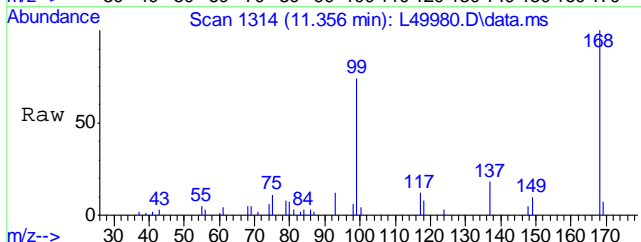
Quant Time: Aug 02 11:00:28 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration



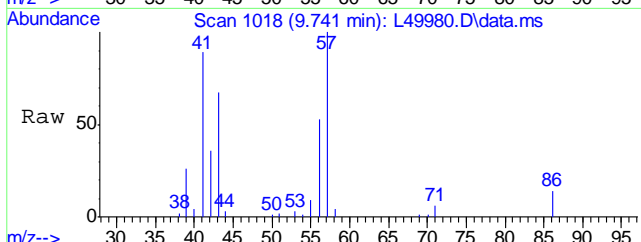
6.1.8
6



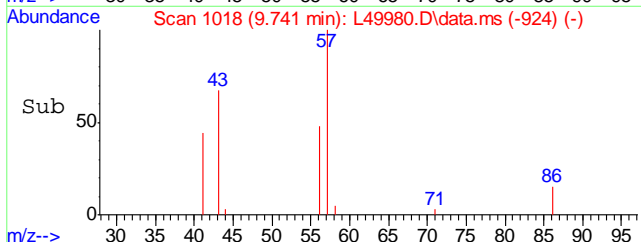
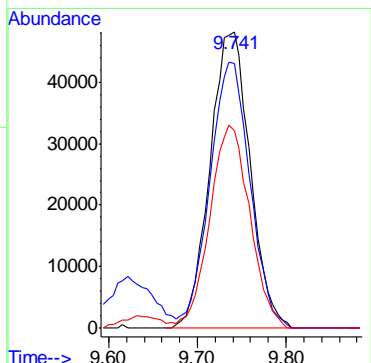
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.356 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm
 Tgt Ion:168 Resp: 1046153

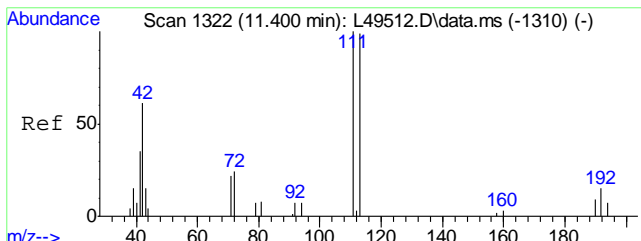


#24
 Hexane
 Concen: 45.76 ug/Kg
 RT: 9.741 min Scan# 1018
 Delta R.T. 0.011 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm
 Tgt Ion: 57 Resp: 1510837



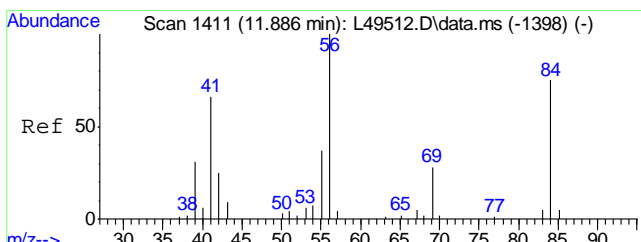
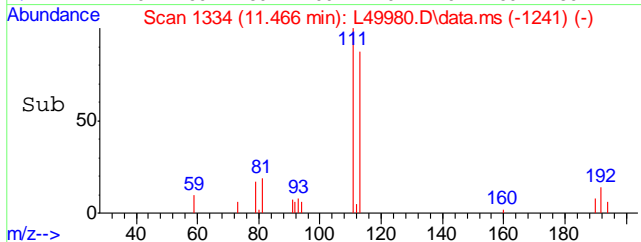
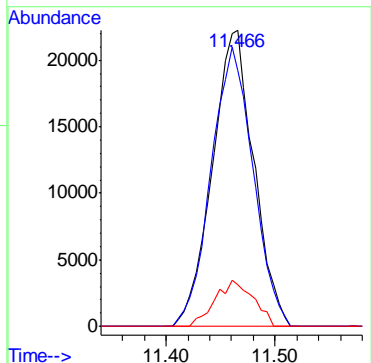
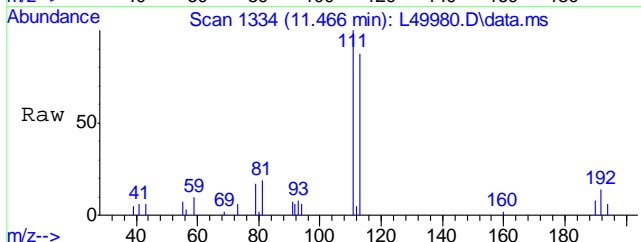
Ion	Ratio	Lower	Upper
57	100		
41	90.0	73.8	110.8
43	68.1	56.6	84.8





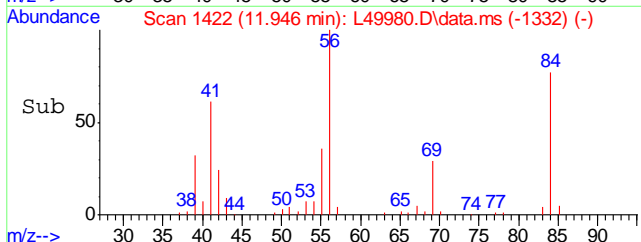
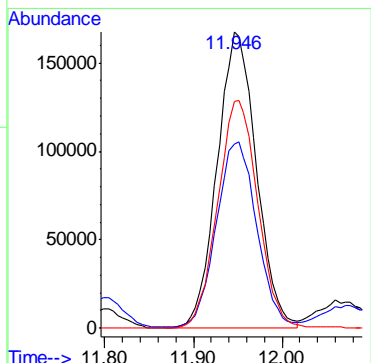
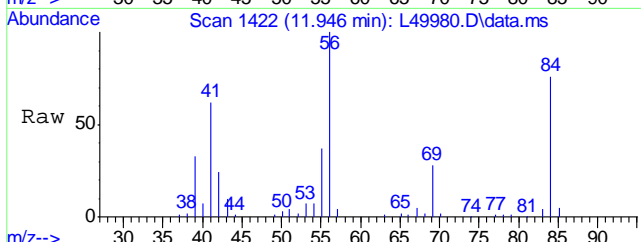
#36
 Dibromofluoromethane
 Concen: 18.78 ug/Kg
 RT: 11.466 min Scan# 1334
 Delta R.T. 0.006 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

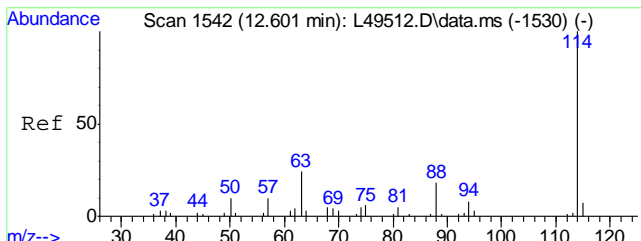
Tgt Ion	Resp	Lower	Upper
111	100		
113	95.5	78.6	118.6
192	14.3	0.0	34.1



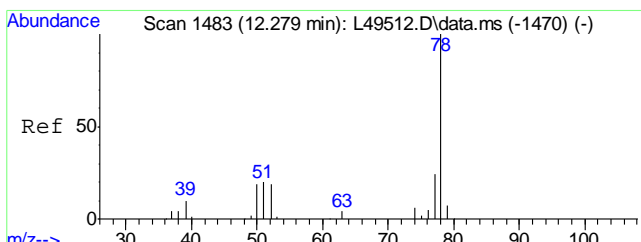
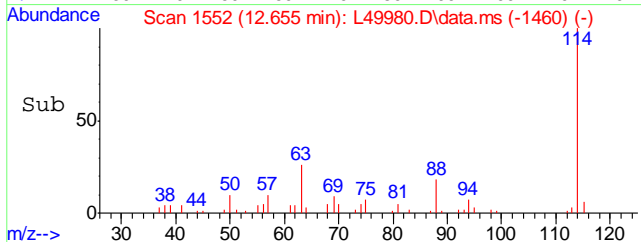
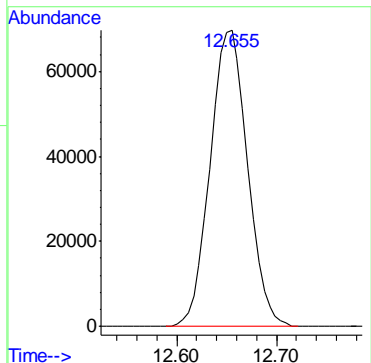
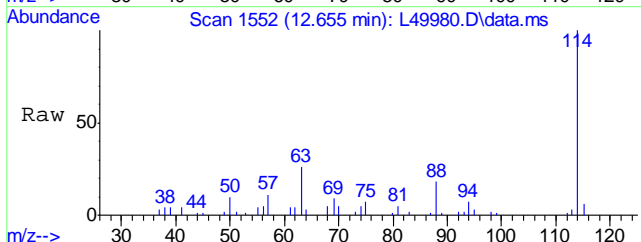
#38
 Cyclohexane
 Concen: 108.83 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.011 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

Tgt Ion	Resp	Lower	Upper
56	100		
41	64.3	53.7	80.5
84	78.7	60.5	90.7

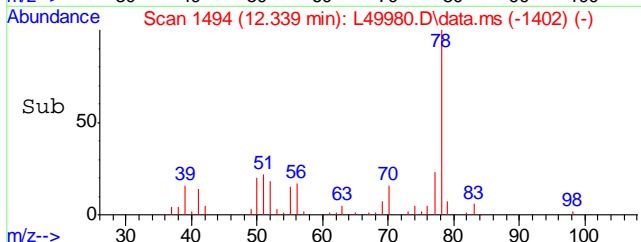
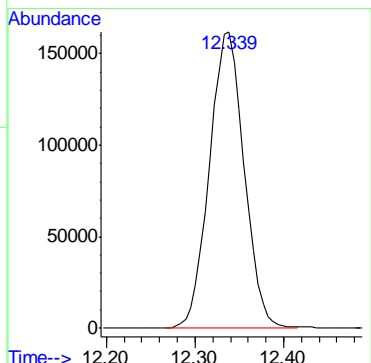
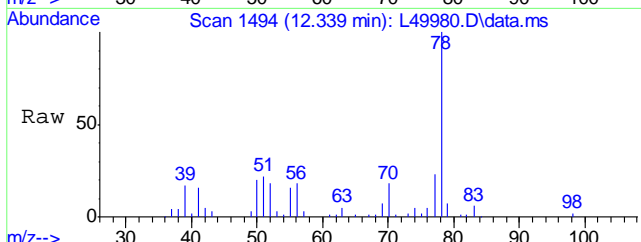


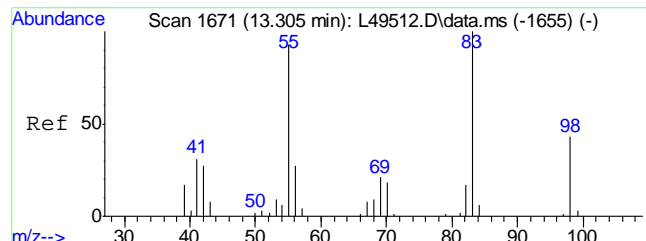


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.655 min Scan# 1552
 Delta R.T. 0.000 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm
 Tgt Ion:114 Resp: 1813343



#45
 Benzene
 Concen: 32.44 ug/Kg
 RT: 12.339 min Scan# 1494
 Delta R.T. 0.000 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm
 Tgt Ion: 78 Resp: 4383116

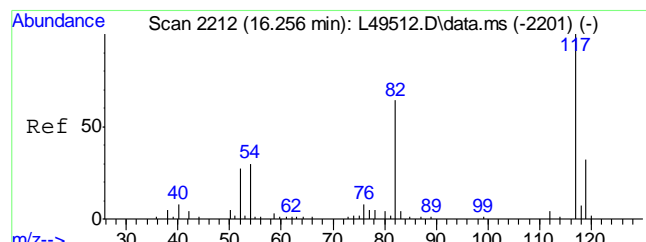
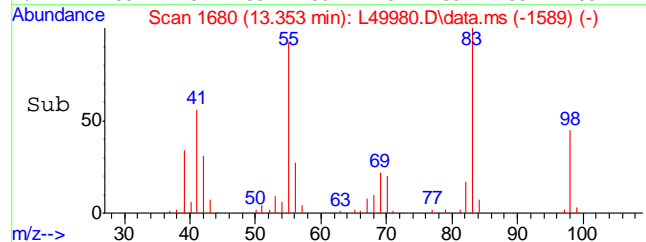
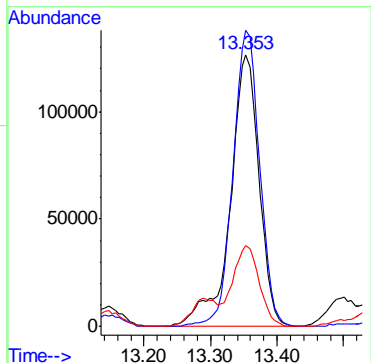
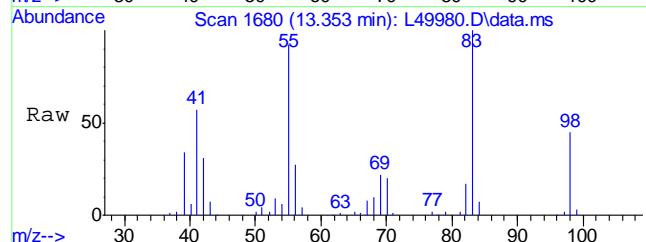




#48
Methylcyclohexane
Concen: 89.89 ug/Kg
RT: 13.353 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

Tgt Ion: 55 Resp: 3816503

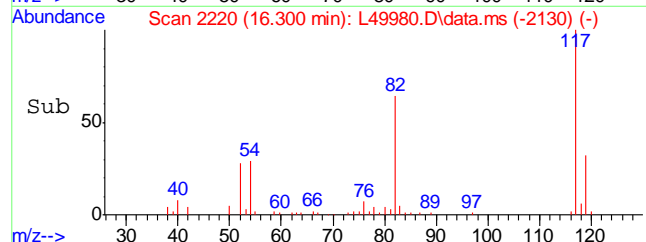
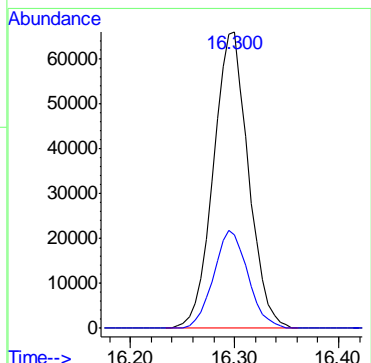
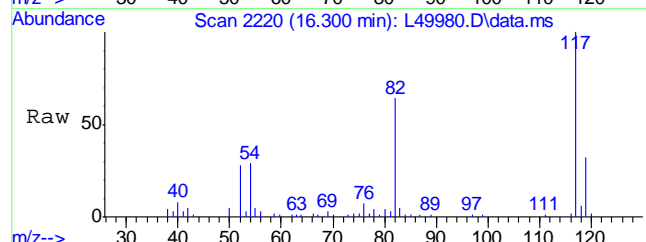
Ion	Ratio	Lower	Upper
55	100		
83	100.9	80.6	120.6
56	27.2	11.5	51.5

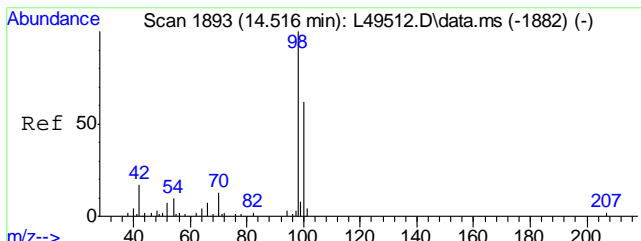


#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.300 min Scan# 2220
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

Tgt Ion: 117 Resp: 1548348

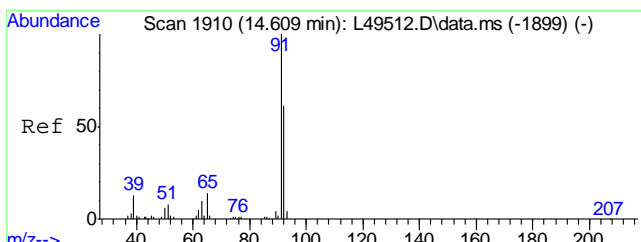
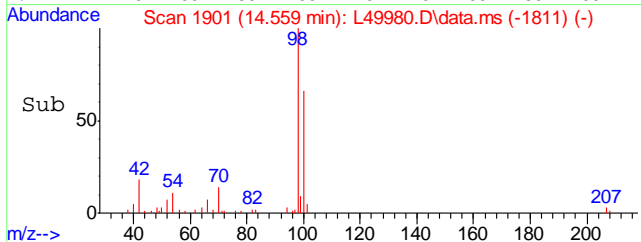
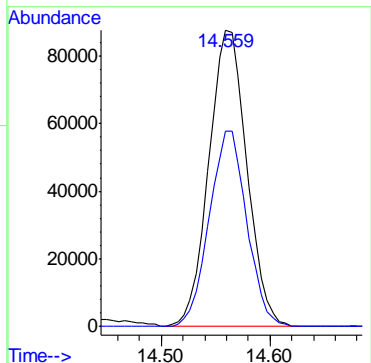
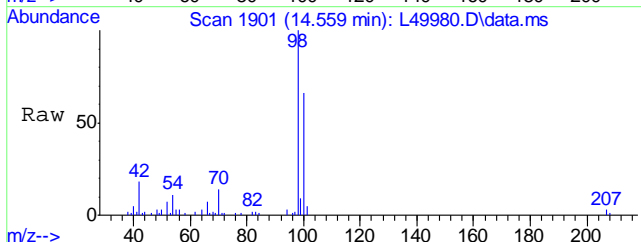
Ion	Ratio	Lower	Upper
117	100		
119	32.4	10.2	50.2





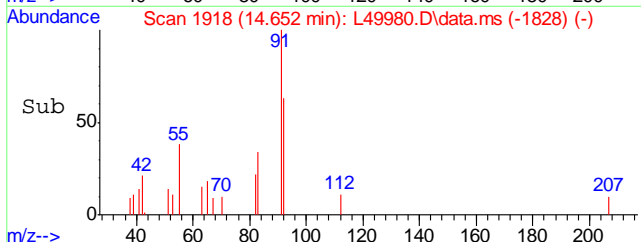
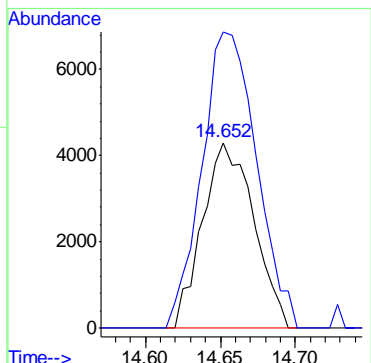
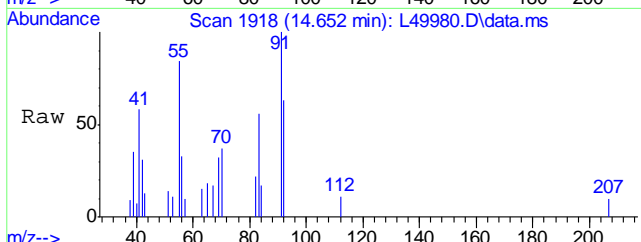
#56
Toluene-d8
Concen: 19.41 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

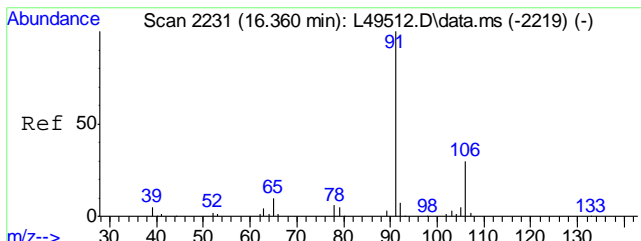
Tgt Ion: 98 Resp: 2122115
Ion Ratio Lower Upper
98 100
100 64.9 45.2 85.2



#57
Toluene
Concen: 1.33 ug/Kg
RT: 14.652 min Scan# 1918
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

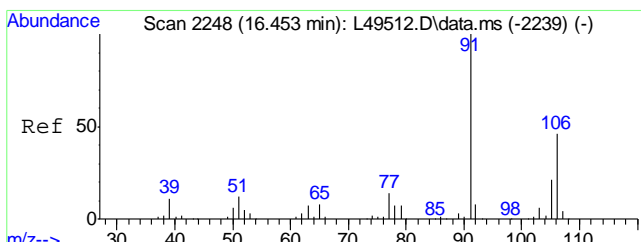
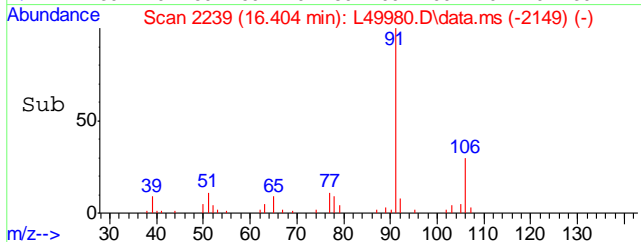
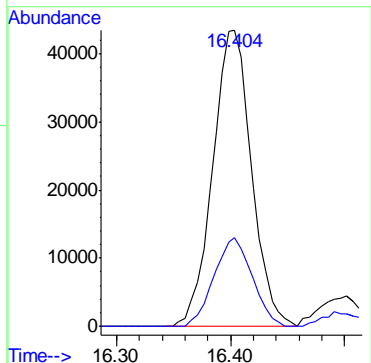
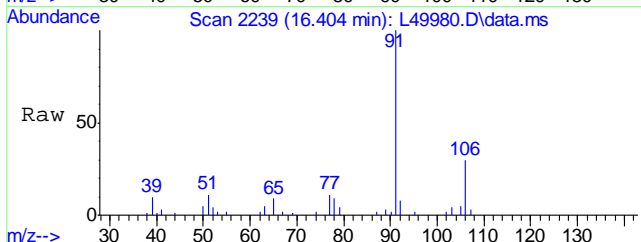
Tgt Ion: 92 Resp: 102197
Ion Ratio Lower Upper
92 100
91 170.9 149.2 189.2





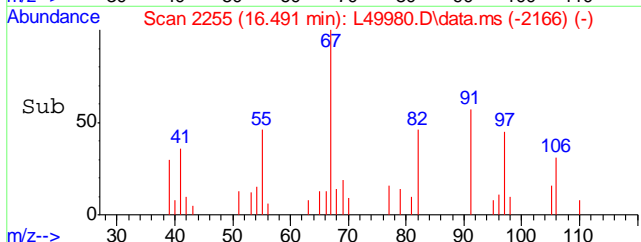
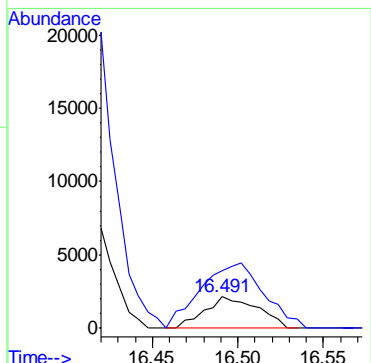
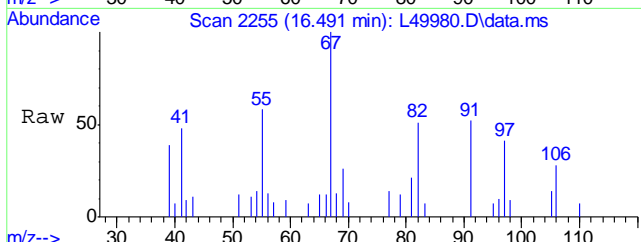
#67
Ethyl Benzene
Concen: 6.88 ug/Kg
RT: 16.404 min Scan# 2239
Delta R.T. -0.011 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

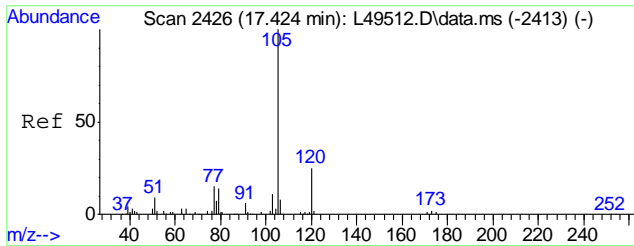
Tgt Ion: 91 Resp: 1028827
Ion Ratio Lower Upper
91 100
106 29.4 8.6 48.6



#68
Xylene, m+p
Concen: 0.86 ug/Kg
RT: 16.491 min Scan# 2255
Delta R.T. -0.016 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm

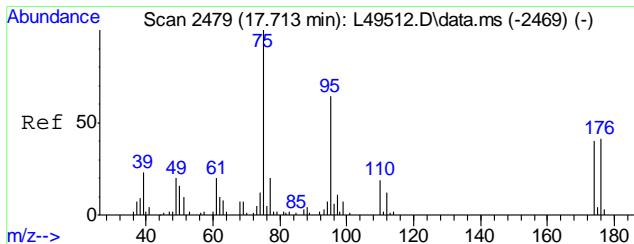
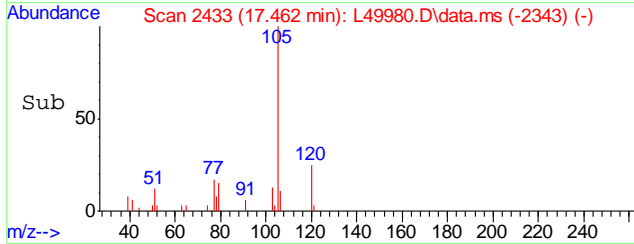
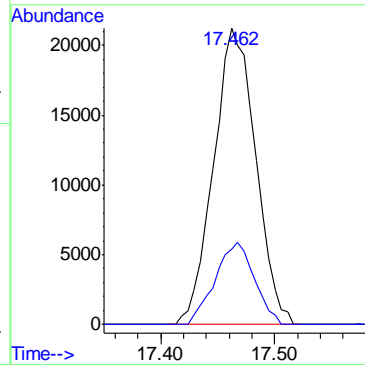
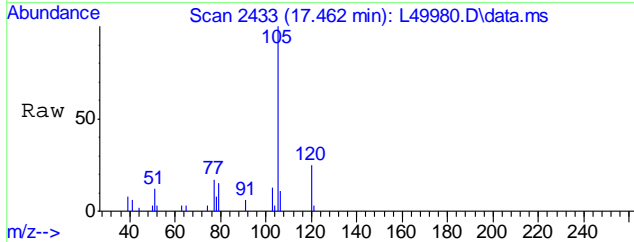
Tgt Ion: 106 Resp: 45895
Ion Ratio Lower Upper
106 100
91 248.5 202.1 242.1#





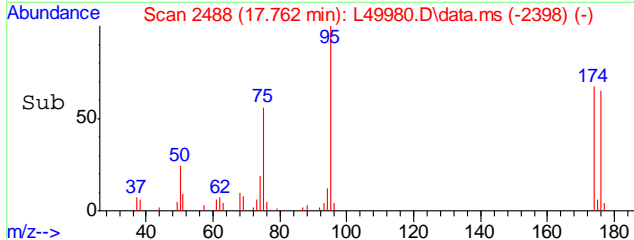
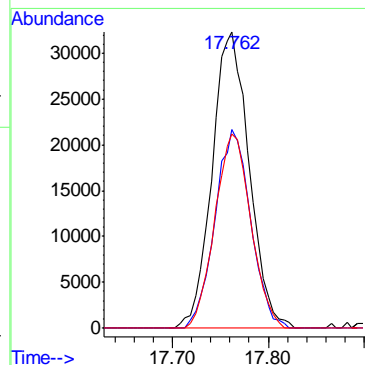
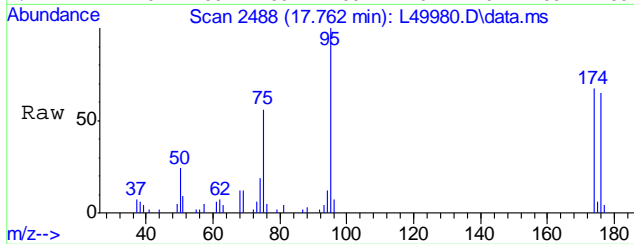
#73
 Isopropylbenzene
 Concen: 4.04 ug/Kg
 RT: 17.462 min Scan# 2433
 Delta R.T. -0.011 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

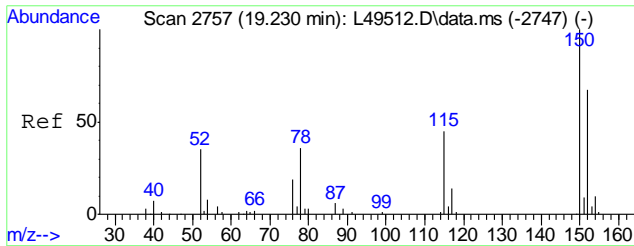
Tgt Ion	Resp	Lower	Upper
105	544209	100	
120	25.7	4.1	44.1



#74
 4-Bromofluorobenzene
 Concen: 19.09 ug/Kg
 RT: 17.762 min Scan# 2488
 Delta R.T. -0.011 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

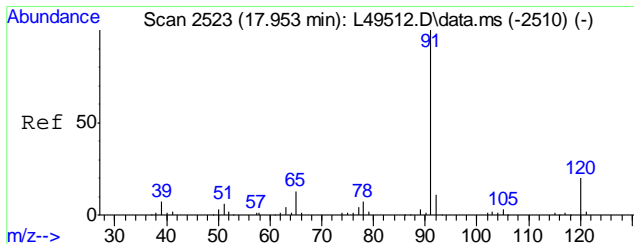
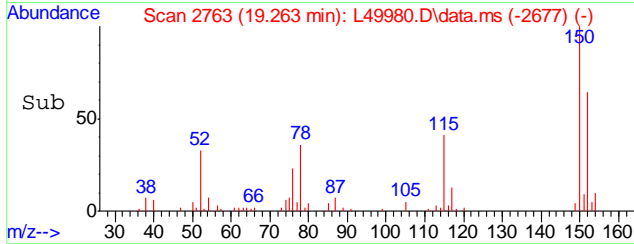
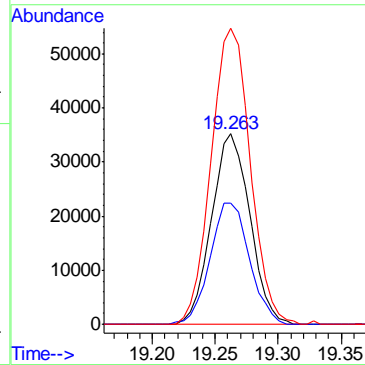
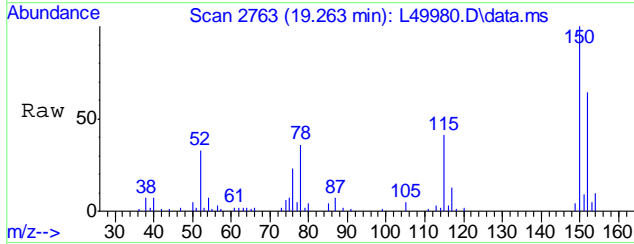
Tgt Ion	Resp	Lower	Upper
95	867456	100	
174	64.5	41.6	81.6
176	63.8	39.6	79.6





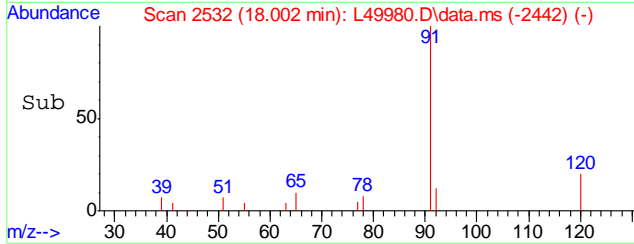
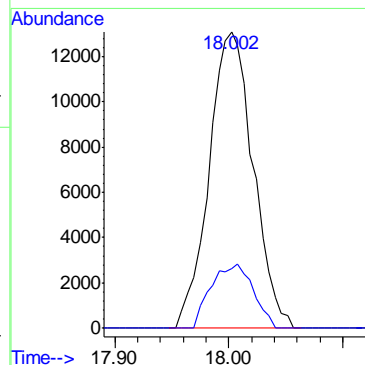
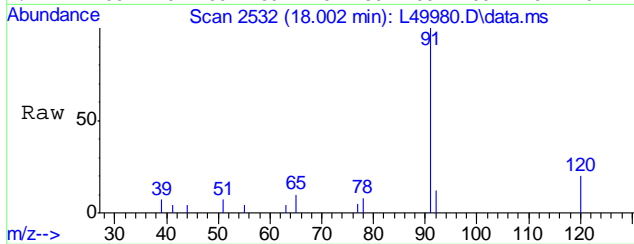
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

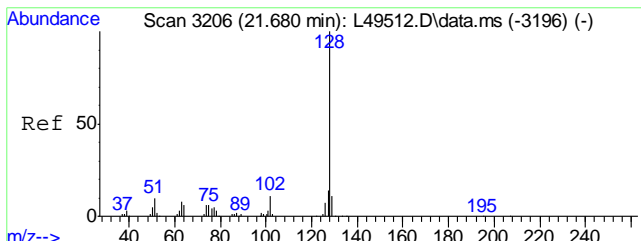
Tgt Ion	Resp	Lower	Upper
152	100		
115	65.2	48.8	88.8
150	158.5	174.3	214.3#



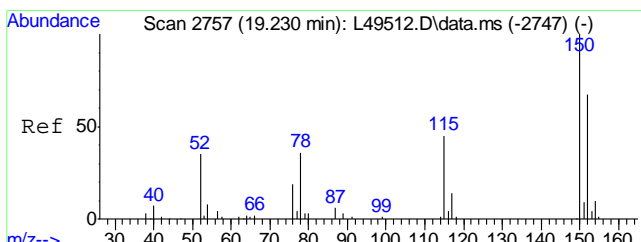
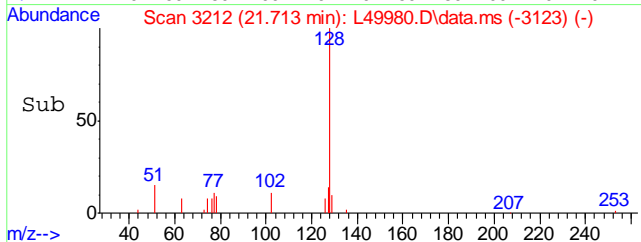
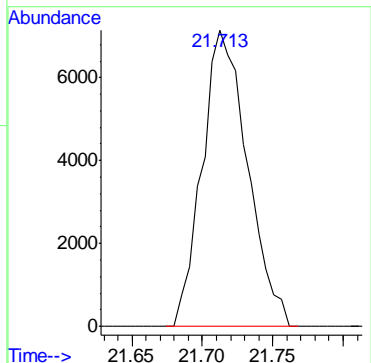
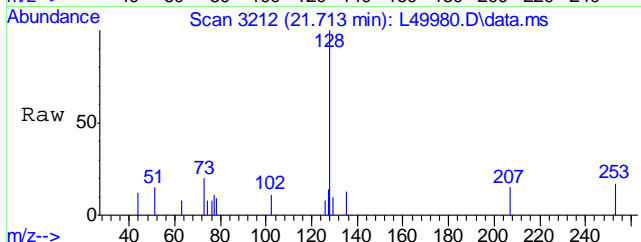
#79
 n-Propylbenzene
 Concen: 2.03 ug/Kg
 RT: 18.002 min Scan# 2532
 Delta R.T. -0.011 min
 Lab File: L49980.D
 Acq: 12 Jul 2016 4:43 pm

Tgt Ion	Resp	Lower	Upper
91	100		
120	20.6	0.0	39.7

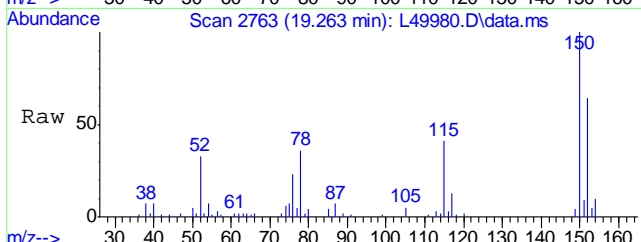




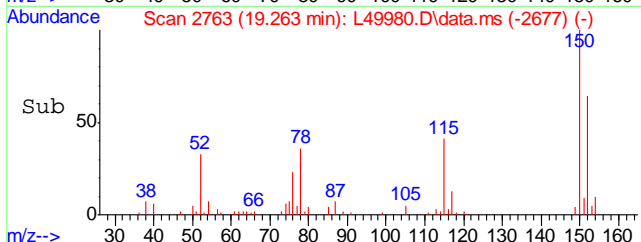
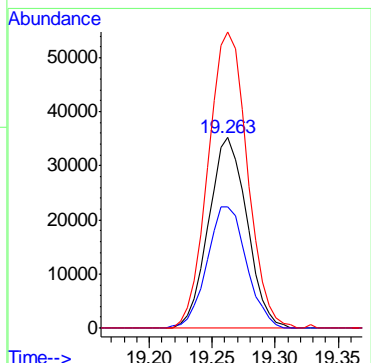
#97
Naphthalene
Concen: 1.42 ug/Kg
RT: 21.713 min Scan# 3212
Delta R.T. -0.016 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm
Tgt Ion:128 Resp: 159964

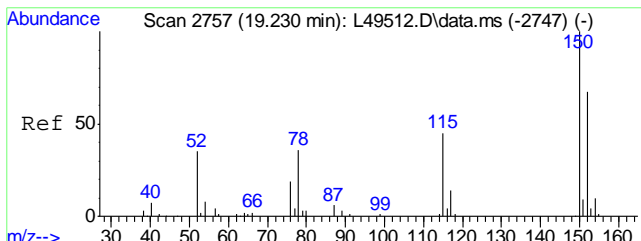


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm
Tgt Ion:152 Resp: 743565

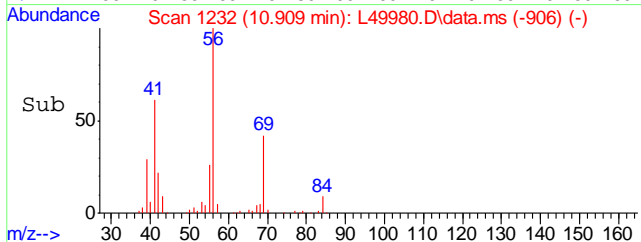
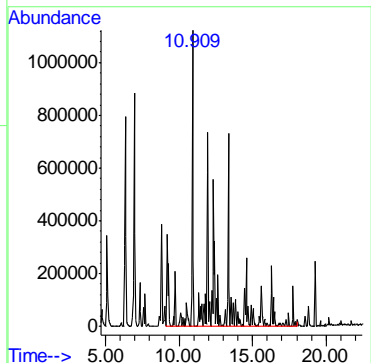
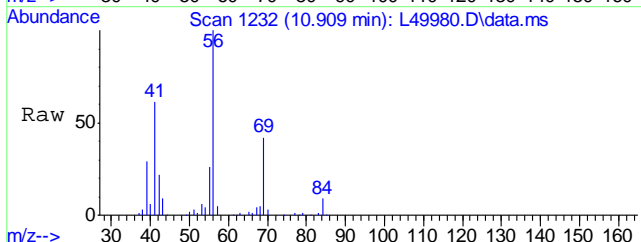


Ion	Ratio	Lower	Upper
152	100		
115	65.2	41.6	81.6
150	158.5	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 1264.60 ug/Kg m
RT: 10.909 min Scan# 1232
Delta R.T. -3.617 min
Lab File: L49980.D
Acq: 12 Jul 2016 4:43 pm
Tgt Ion:TIC Resp:257855550



6.18
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49988.D
 Acq On : 12 Jul 2016 8:39 pm
 Operator : johannat
 Sample : C46435-7R
 Misc : MS1912,VL1499,5.77,,,,,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 11:02:07 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

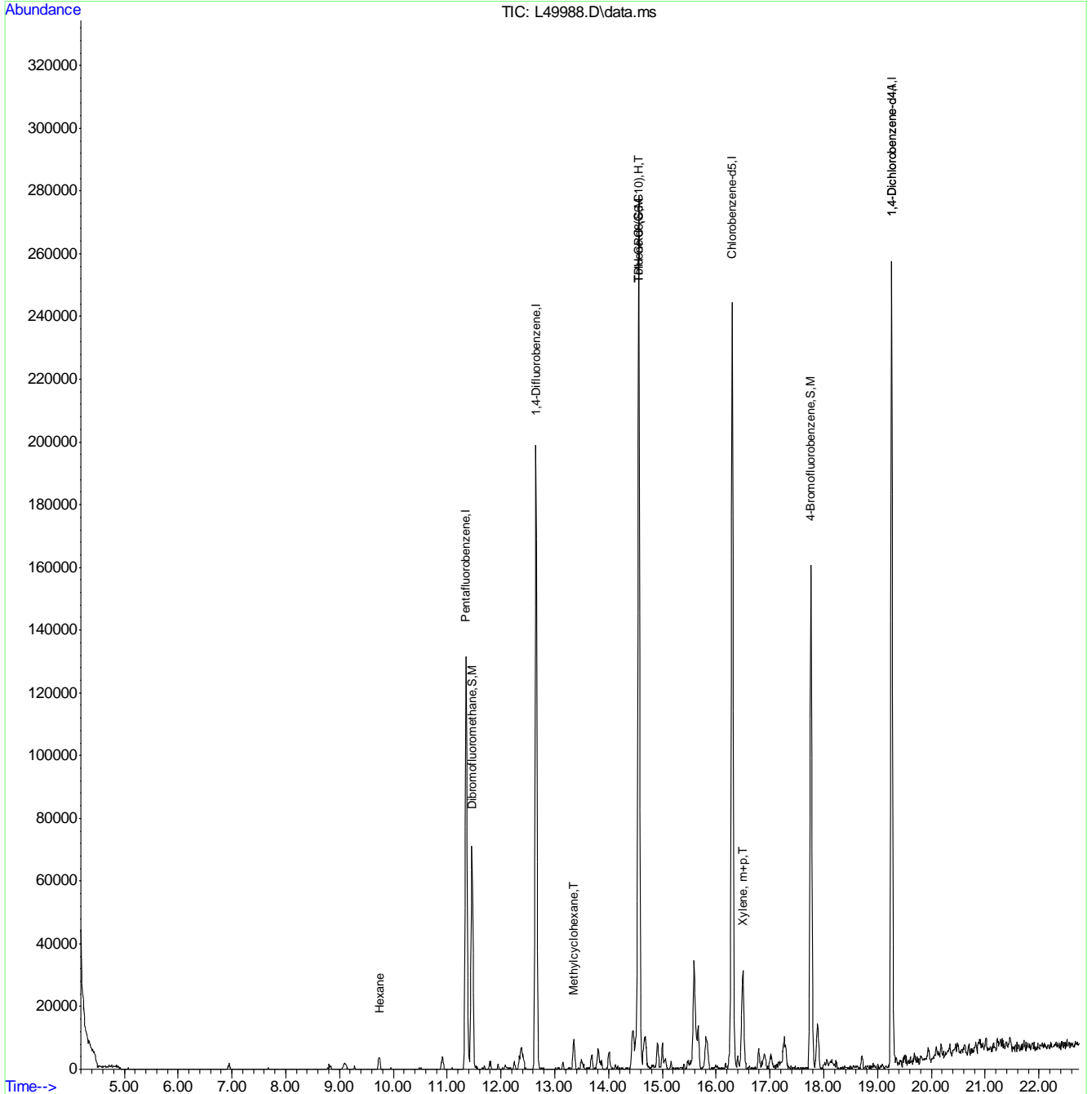
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	1186401	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.655	114	2053361	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1756464	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	830575	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	830575	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.466	111	633667	17.84	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	89.20%		
56) Toluene-d8	14.565	98	2435693	19.63	ug/Kg	0.00
Spiked Amount	20.000	Range 87 - 113	Recovery =	98.15%		
74) 4-Bromofluorobenzene	17.762	95	939651	18.23	ug/Kg	-0.01
Spiked Amount	20.000	Range 81 - 115	Recovery =	91.15%		
Target Compounds						
24) Hexane	9.742	57	30073	0.80	ug/Kg	89
48) Methylcyclohexane	13.354	55	60691	1.26	ug/Kg	91
68) Xylene, m+p	16.497	106	91613	1.52	ug/Kg	95
100) TPH-GRO (C6-C10)	14.560	TIC	35170756m	88.68	ug/Kg	

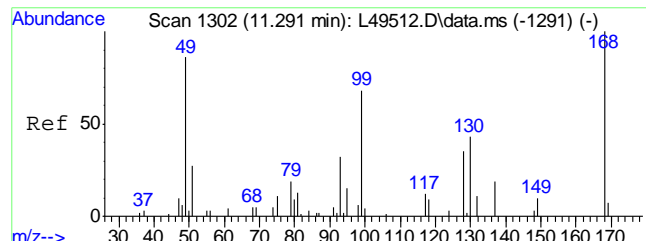
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

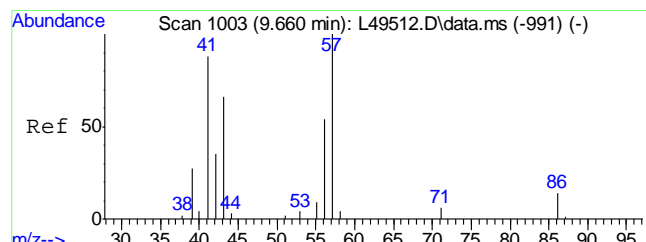
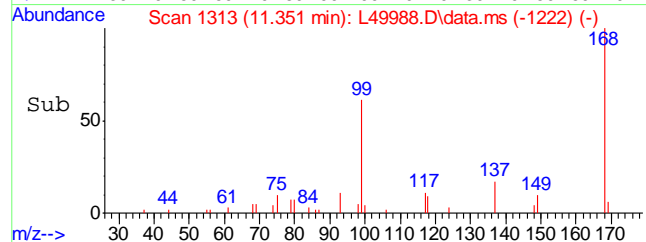
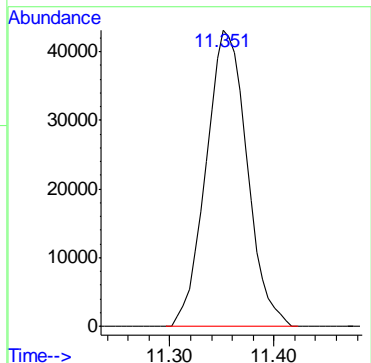
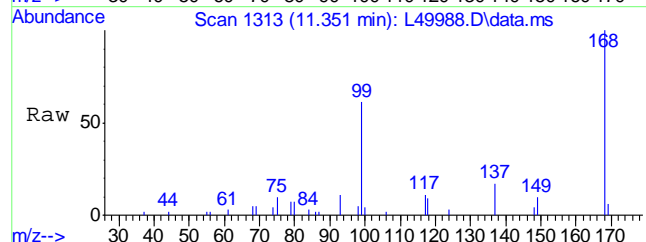
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49988.D
Acq On : 12 Jul 2016 8:39 pm
Operator : johannat
Sample : C46435-7R
Misc : MS1912,VL1499,5.77,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 11:02:07 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

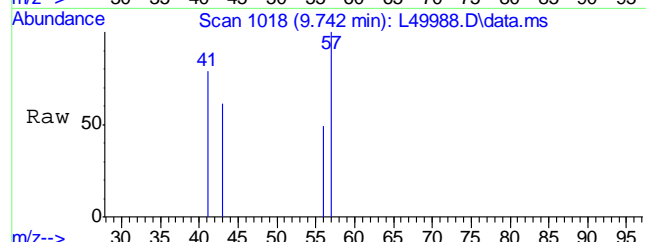




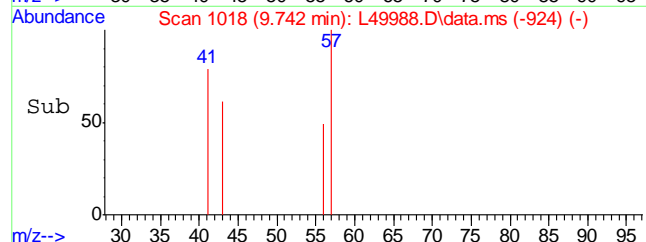
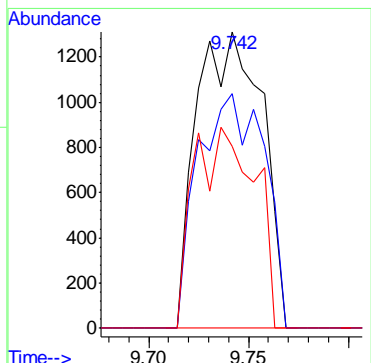
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm
 Tgt Ion:168 Resp: 1186401

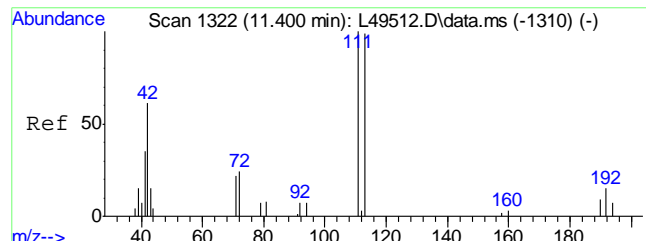


#24
 Hexane
 Concen: 0.80 ug/Kg
 RT: 9.742 min Scan# 1018
 Delta R.T. 0.011 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm
 Tgt Ion: 57 Resp: 30073



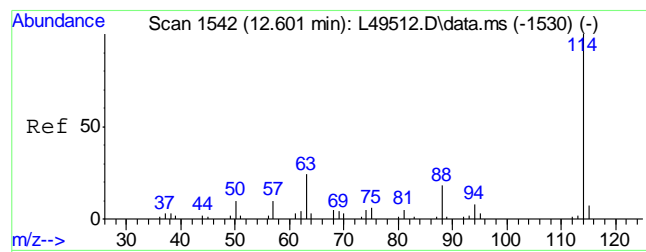
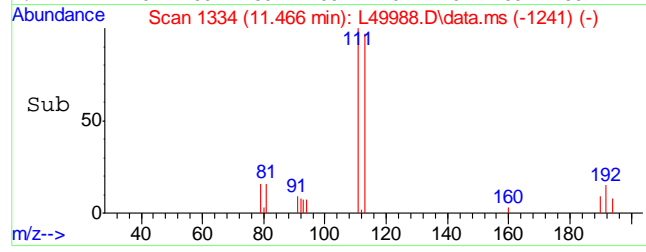
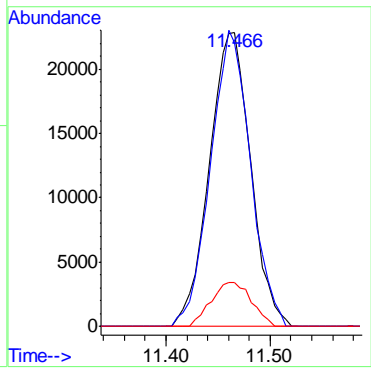
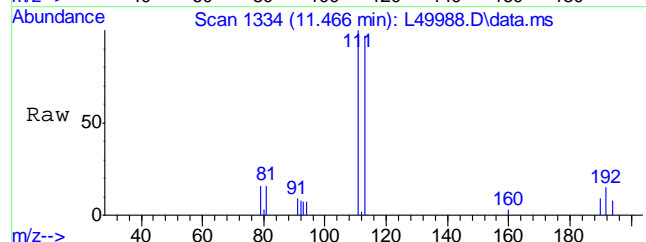
Ion	Ratio	Lower	Upper
57	100		
41	79.8	73.8	110.8
43	63.4	56.6	84.8





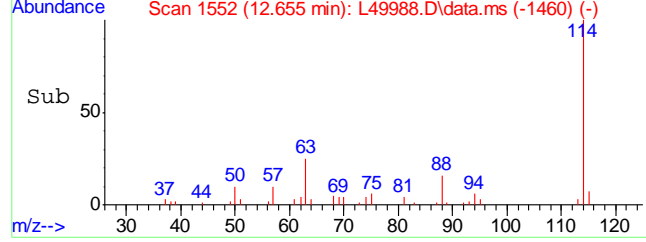
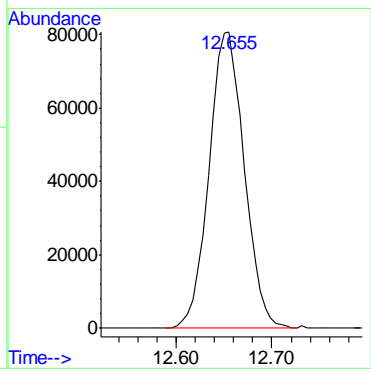
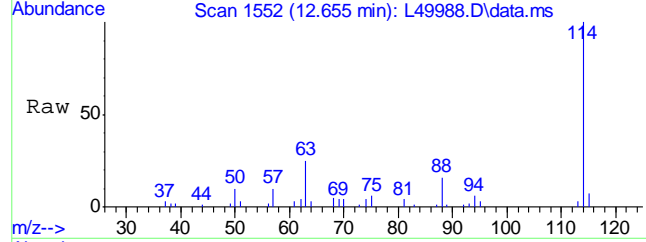
#36
 Dibromofluoromethane
 Concen: 17.84 ug/Kg
 RT: 11.466 min Scan# 1334
 Delta R.T. 0.006 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

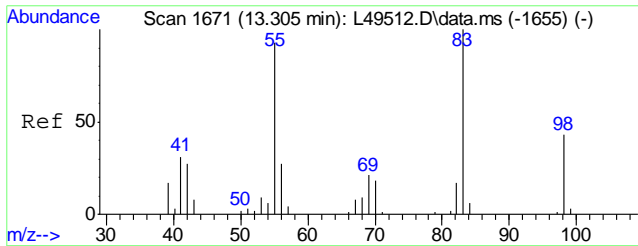
Tgt Ion	Resp	Lower	Upper
111	100		
113	97.3	78.6	118.6
192	14.7	0.0	34.1



#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.655 min Scan# 1552
 Delta R.T. 0.001 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

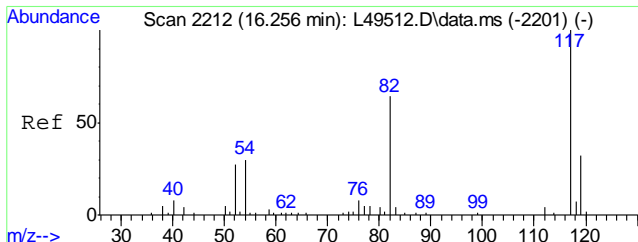
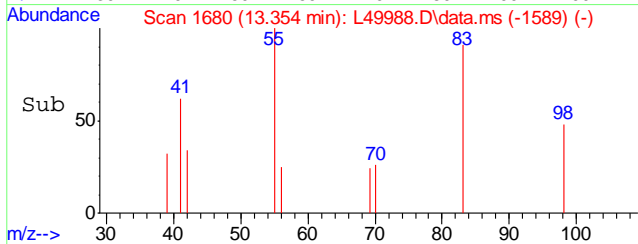
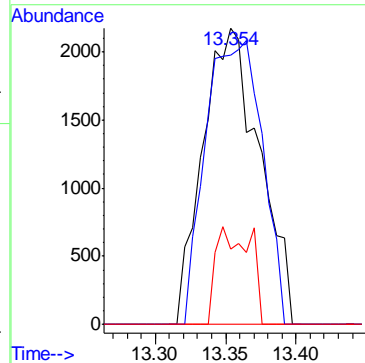
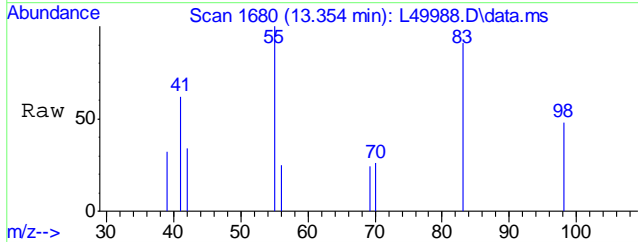
Tgt Ion:114 Resp: 2053361





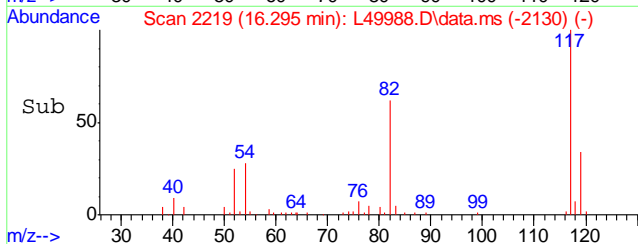
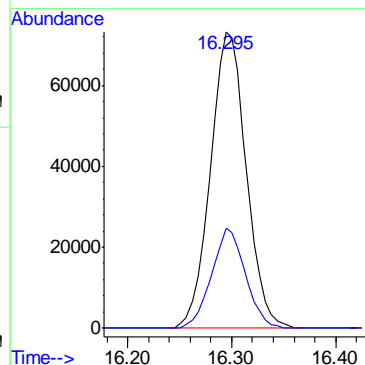
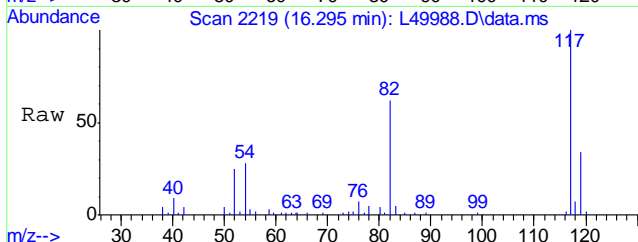
#48
Methylcyclohexane
Concen: 1.26 ug/Kg
RT: 13.354 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

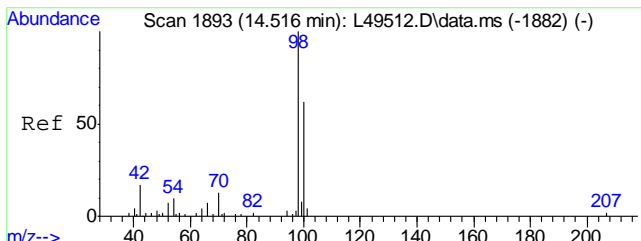
Tgt Ion	Resp	Lower	Upper
55	60691		
55	100		
83	96.0	80.6	120.6
56	19.6	11.5	51.5



#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

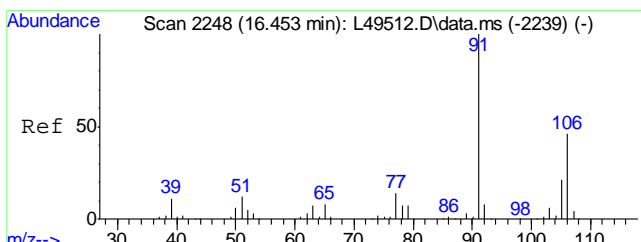
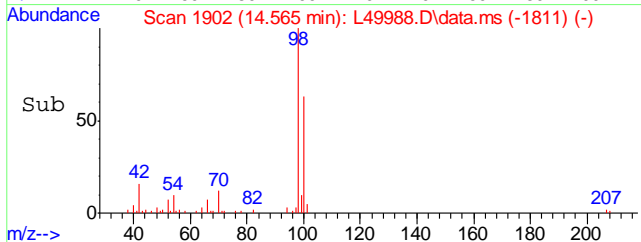
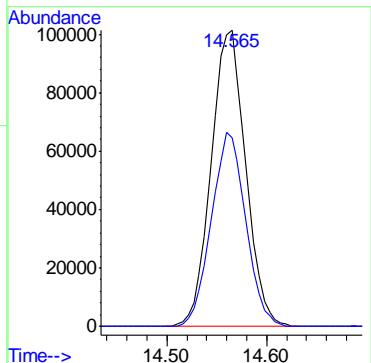
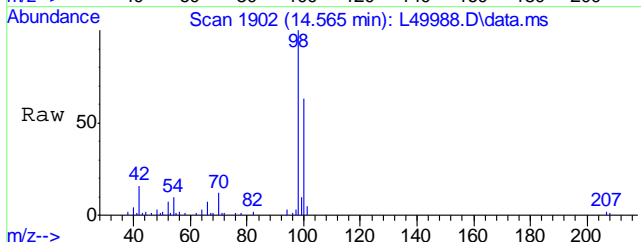
Tgt Ion	Resp	Lower	Upper
117	1756464		
117	100		
119	31.8	10.2	50.2





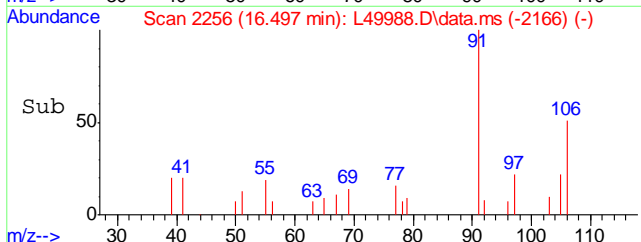
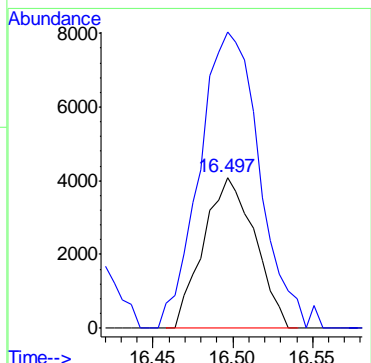
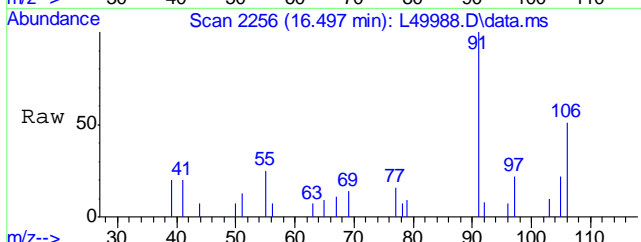
#56
Toluene-d8
Concen: 19.63 ug/Kg
RT: 14.565 min Scan# 1902
Delta R.T. -0.005 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

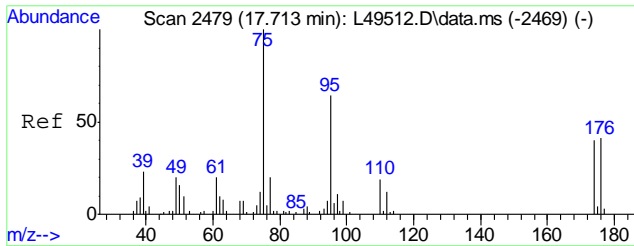
Tgt Ion: 98 Resp: 2435693
Ion Ratio Lower Upper
98 100
100 65.0 45.2 85.2



#68
Xylene, m+p
Concen: 1.52 ug/Kg
RT: 16.497 min Scan# 2256
Delta R.T. -0.010 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

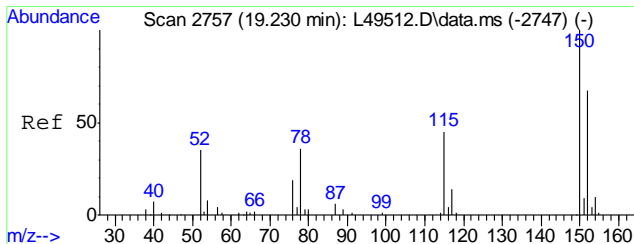
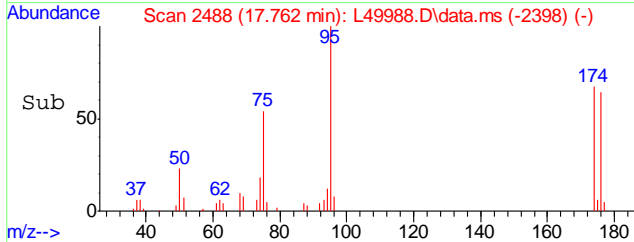
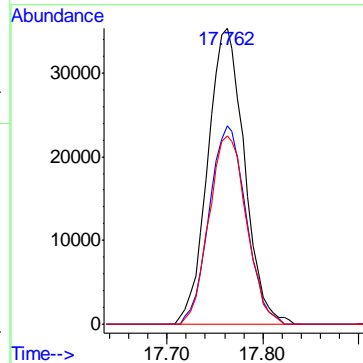
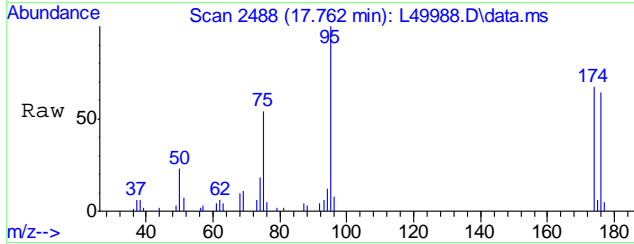
Tgt Ion: 106 Resp: 91613
Ion Ratio Lower Upper
106 100
91 230.1 202.1 242.1





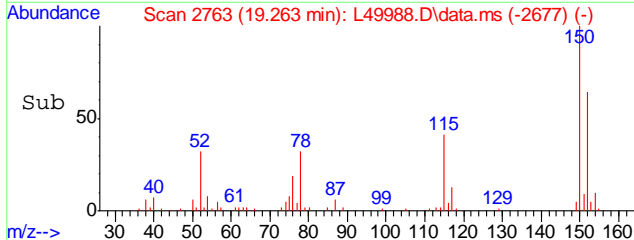
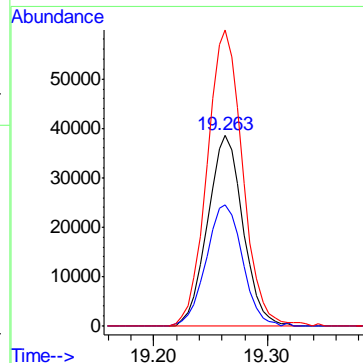
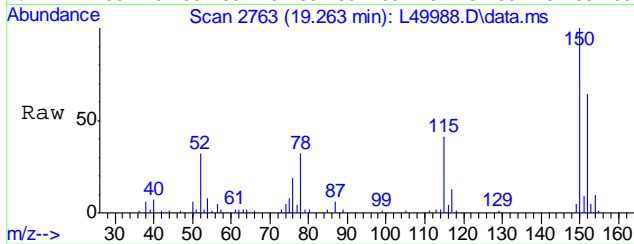
#74
 4-Bromofluorobenzene
 Concen: 18.23 ug/Kg
 RT: 17.762 min Scan# 2488
 Delta R.T. -0.010 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

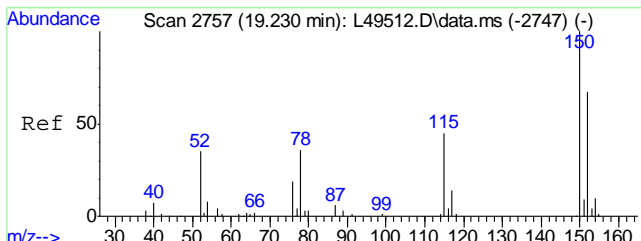
Tgt Ion	Resp	Lower	Upper
95	939651		
174	67.4	41.6	81.6
176	65.0	39.6	79.6



#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

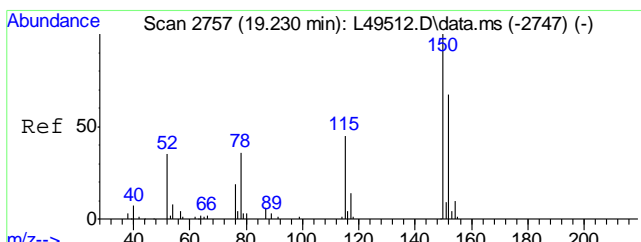
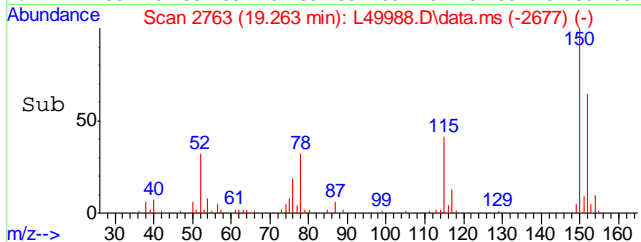
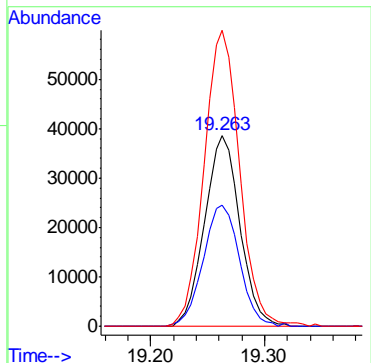
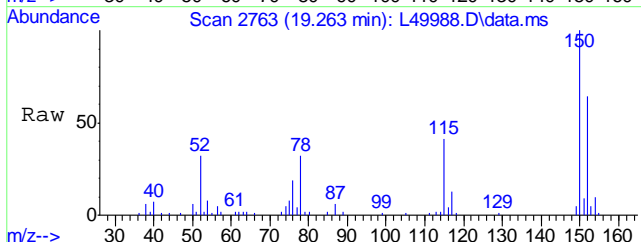
Tgt Ion	Resp	Lower	Upper
152	830575		
152	100		
115	65.8	48.8	88.8
150	156.4	174.3	214.3#





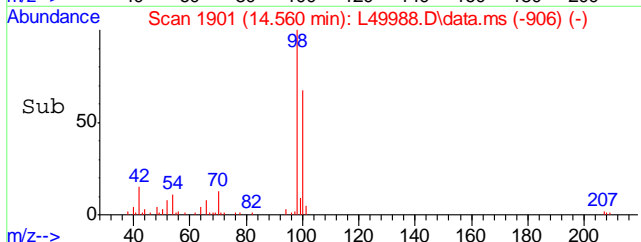
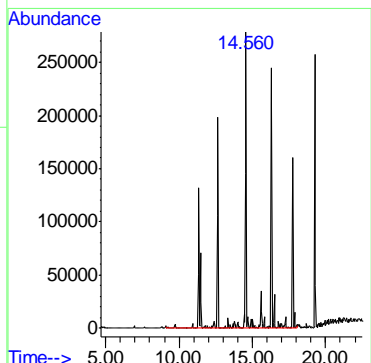
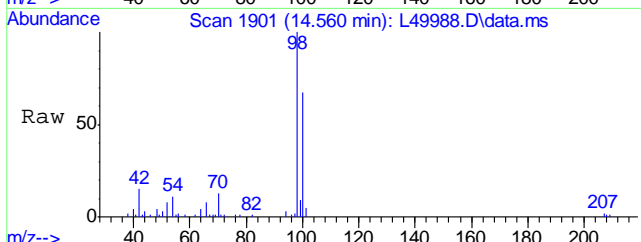
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	65.8	41.6	81.6
150	156.4	176.9	216.9#



#100
 TPH-GRO (C6-C10)
 Concen: 88.68 ug/Kg m
 RT: 14.560 min Scan# 1901
 Delta R.T. 0.034 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

Tgt Ion:TIC Resp:35170756



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49988.D
 Acq On : 12 Jul 2016 8:39 pm
 Operator : johannat
 Sample : C46435-7R
 Misc : MS1912,VL1499,5.77,,,,,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 11:02:07 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

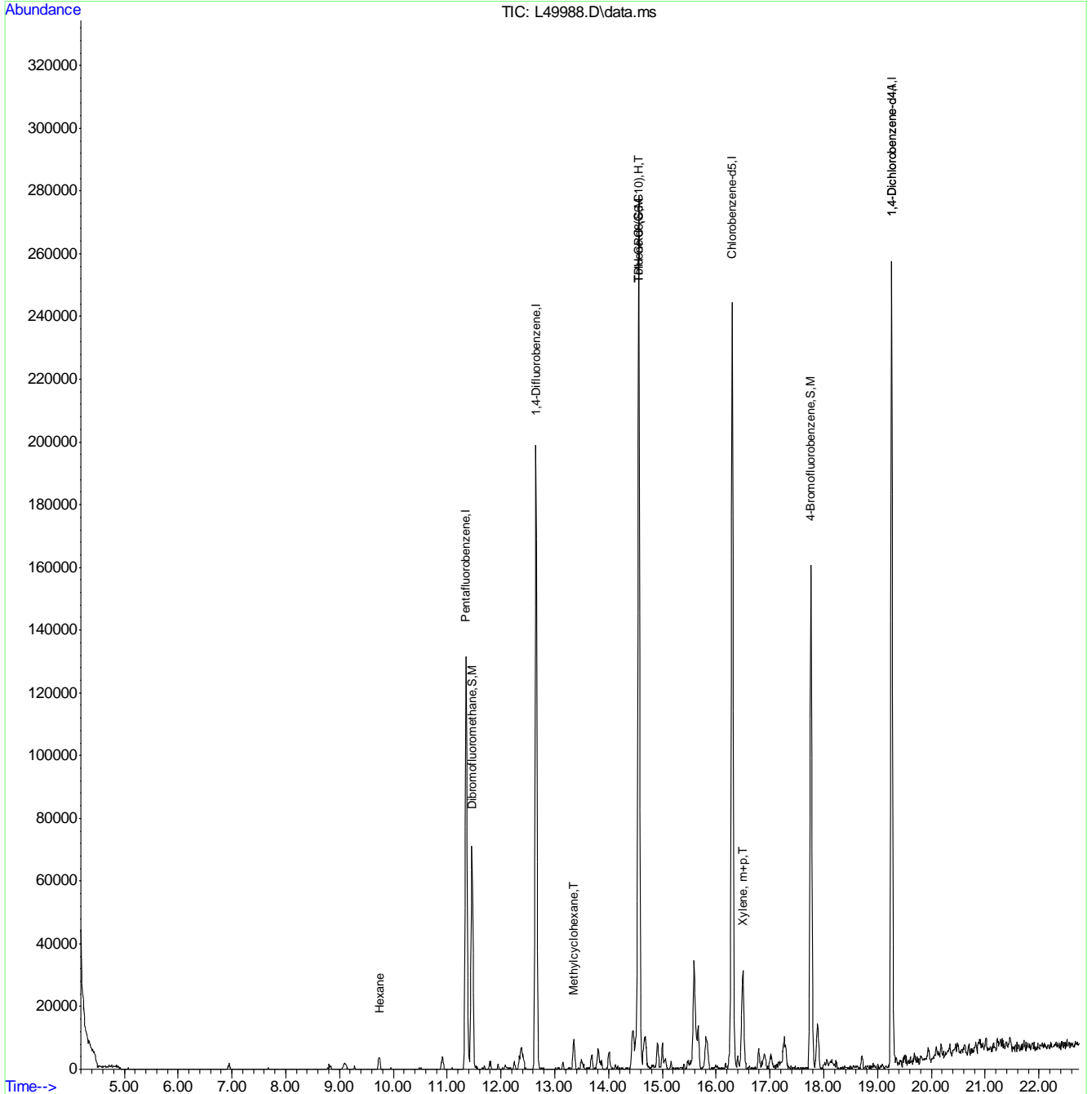
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	1186401	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.655	114	2053361	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1756464	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	830575	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	830575	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.466	111	633667	17.84	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery	=	89.20%	
56) Toluene-d8	14.565	98	2435693	19.63	ug/Kg	0.00
Spiked Amount	20.000	Range 87 - 113	Recovery	=	98.15%	
74) 4-Bromofluorobenzene	17.762	95	939651	18.23	ug/Kg	-0.01
Spiked Amount	20.000	Range 81 - 115	Recovery	=	91.15%	
Target Compounds						
24) Hexane	9.742	57	30073	0.80	ug/Kg	89
48) Methylcyclohexane	13.354	55	60691	1.26	ug/Kg	91
68) Xylene, m+p	16.497	106	91613	1.52	ug/Kg	95
100) TPH-GRO (C6-C10)	14.560	TIC	35170756m	88.68	ug/Kg	

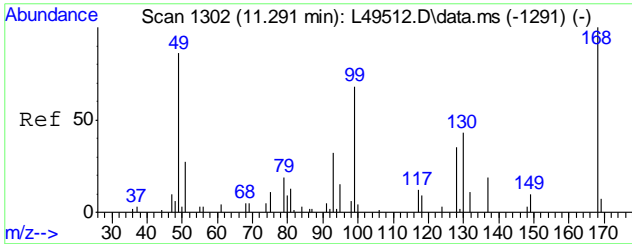
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

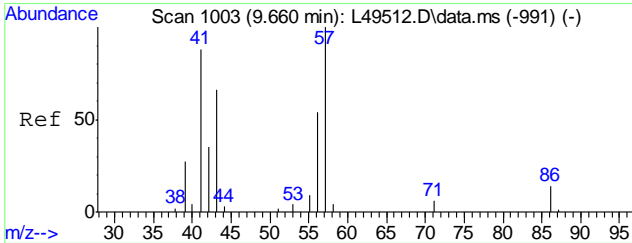
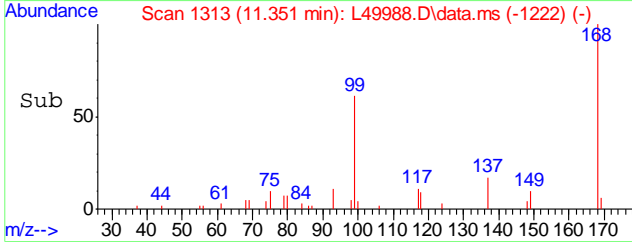
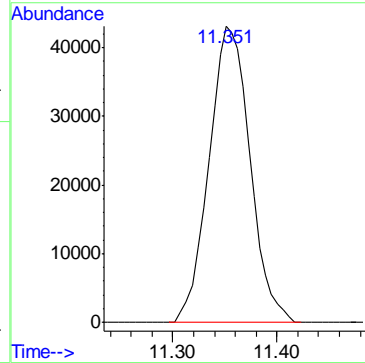
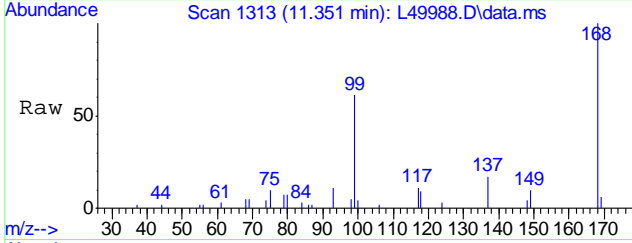
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49988.D
Acq On : 12 Jul 2016 8:39 pm
Operator : johannat
Sample : C46435-7R
Misc : MS1912,VL1499,5.77,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 11:02:07 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration





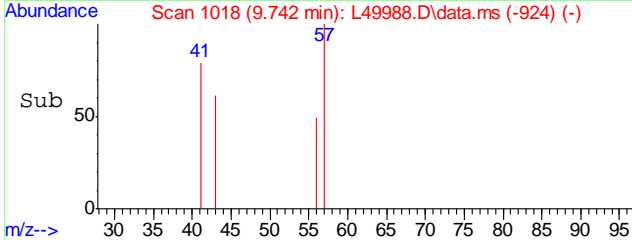
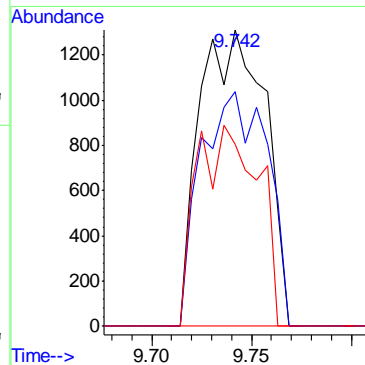
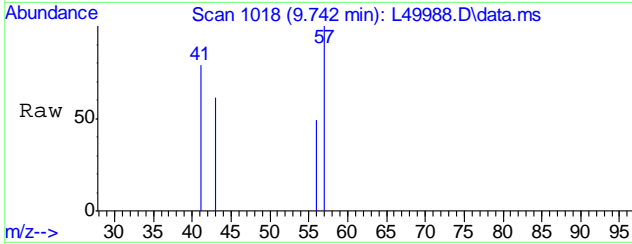
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm
 Tgt Ion:168 Resp: 1186401

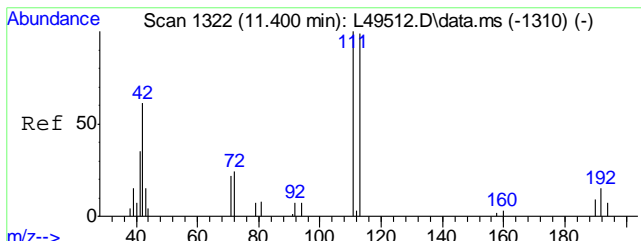


#24
 Hexane
 Concen: 0.80 ug/Kg
 RT: 9.742 min Scan# 1018
 Delta R.T. 0.011 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

Tgt Ion: 57 Resp: 30073

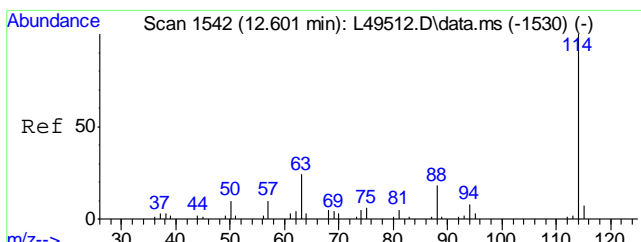
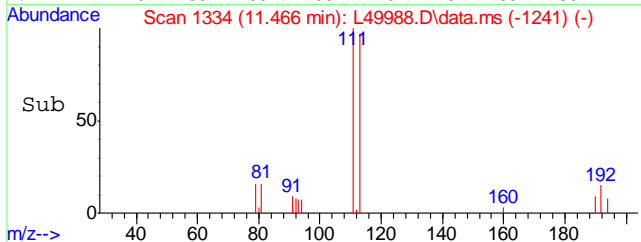
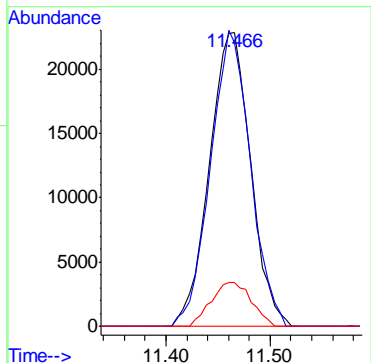
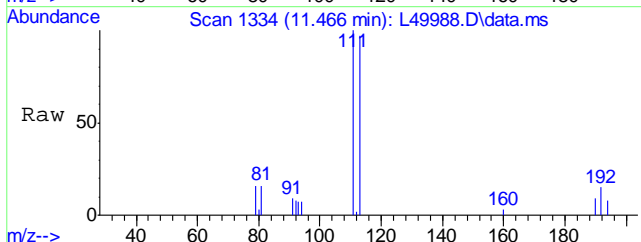
Ion	Ratio	Lower	Upper
57	100		
41	79.8	73.8	110.8
43	63.4	56.6	84.8





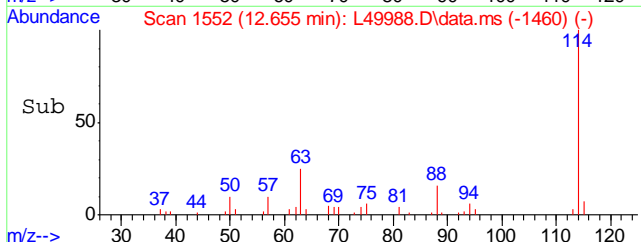
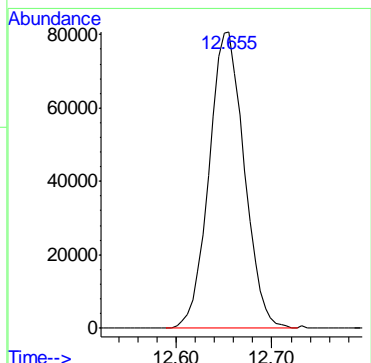
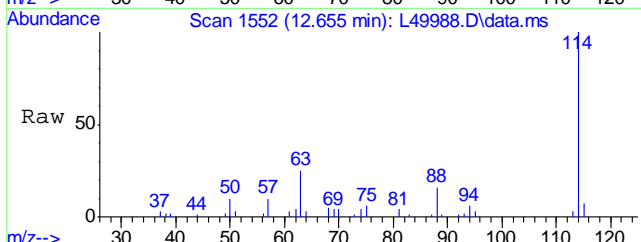
#36
 Dibromofluoromethane
 Concen: 17.84 ug/Kg
 RT: 11.466 min Scan# 1334
 Delta R.T. 0.006 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

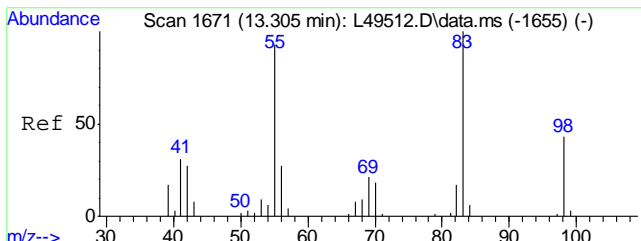
Tgt Ion	Resp	Lower	Upper
111	100		
113	97.3	78.6	118.6
192	14.7	0.0	34.1



#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.655 min Scan# 1552
 Delta R.T. 0.001 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

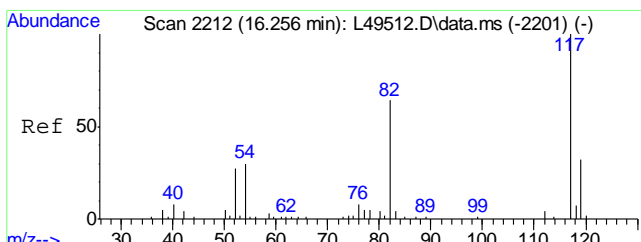
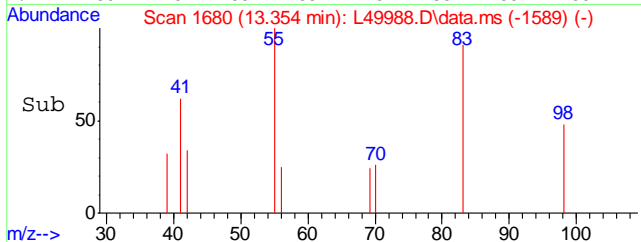
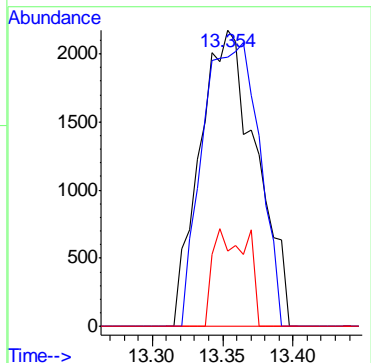
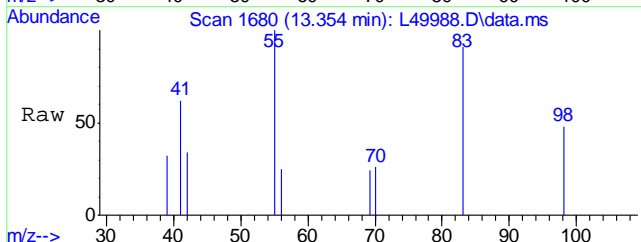
Tgt Ion:114 Resp: 2053361





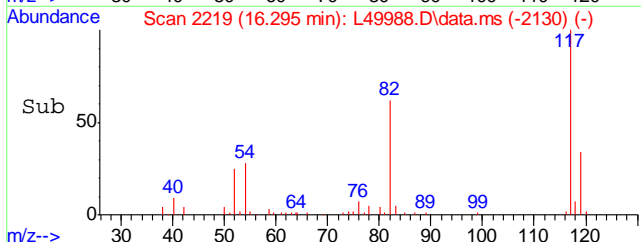
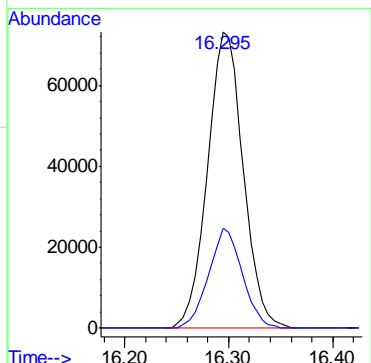
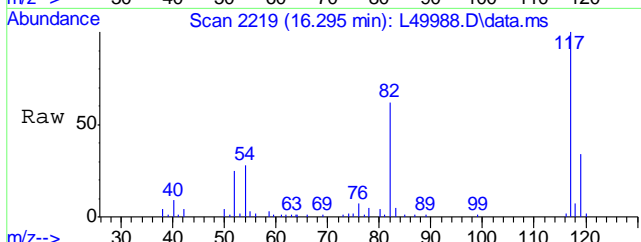
#48
Methylcyclohexane
Concen: 1.26 ug/Kg
RT: 13.354 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

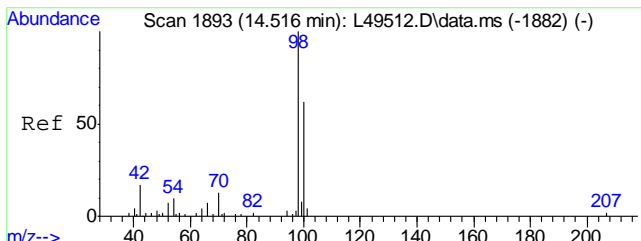
Tgt Ion	Resp	Lower	Upper
55	60691		
83	96.0	80.6	120.6
56	19.6	11.5	51.5



#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

Tgt Ion	Resp	Lower	Upper
117	1756464		
119	31.8	10.2	50.2

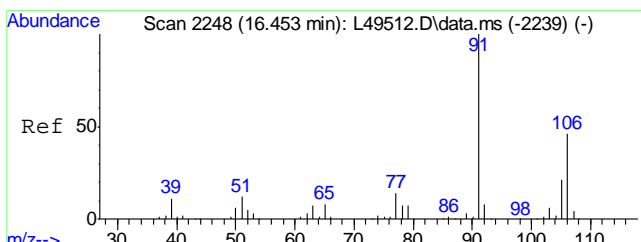
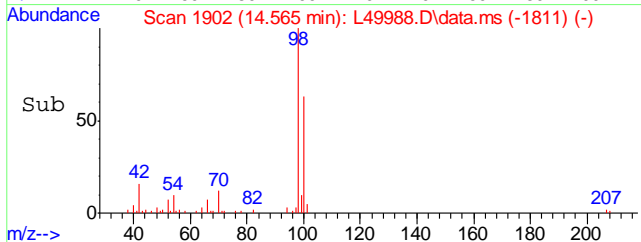
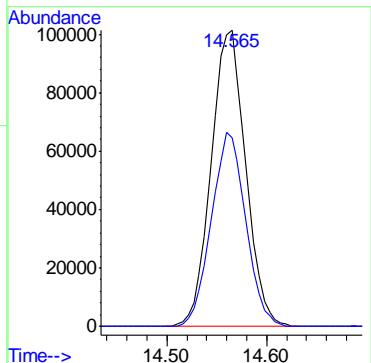
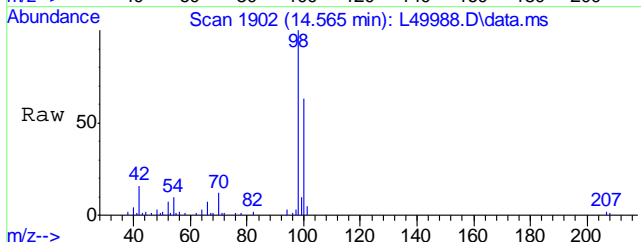




#56
Toluene-d8
Concen: 19.63 ug/Kg
RT: 14.565 min Scan# 1902
Delta R.T. -0.005 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

Tgt Ion: 98 Resp: 2435693

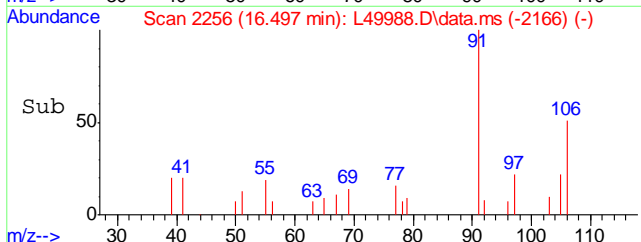
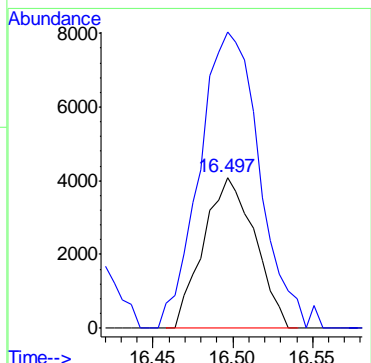
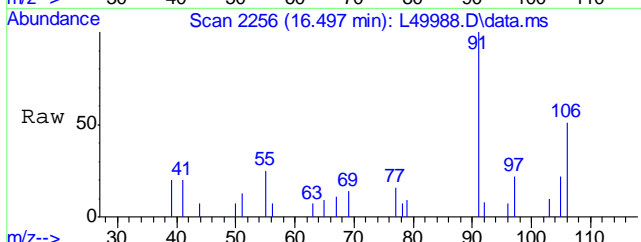
Ion	Ratio	Lower	Upper
98	100		
100	65.0	45.2	85.2

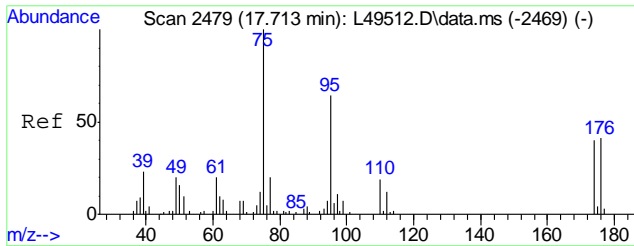


#68
Xylene, m+p
Concen: 1.52 ug/Kg
RT: 16.497 min Scan# 2256
Delta R.T. -0.010 min
Lab File: L49988.D
Acq: 12 Jul 2016 8:39 pm

Tgt Ion: 106 Resp: 91613

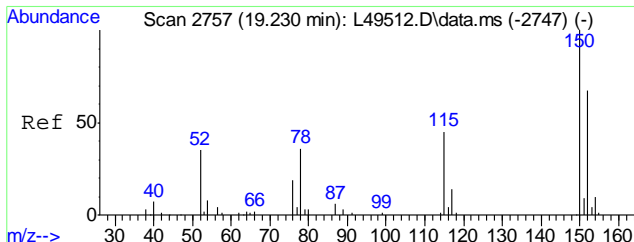
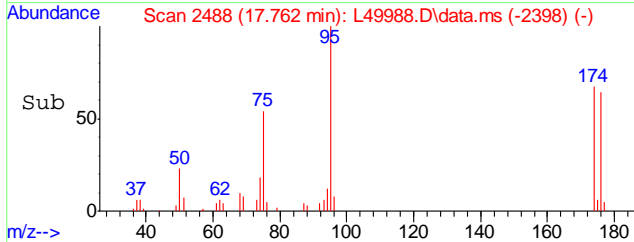
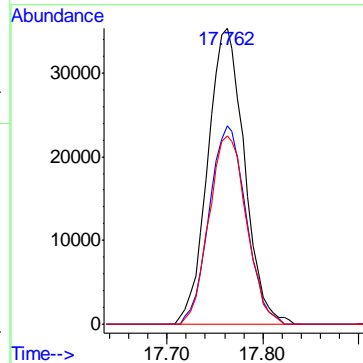
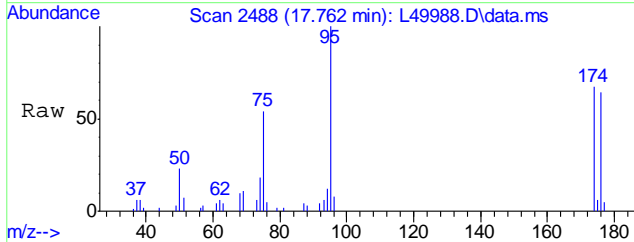
Ion	Ratio	Lower	Upper
106	100		
91	230.1	202.1	242.1





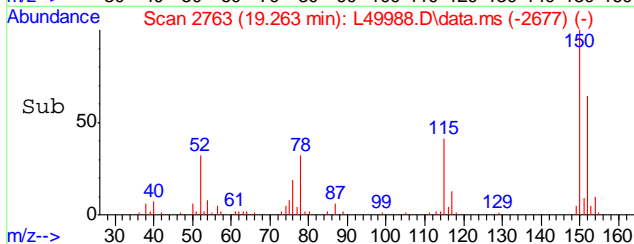
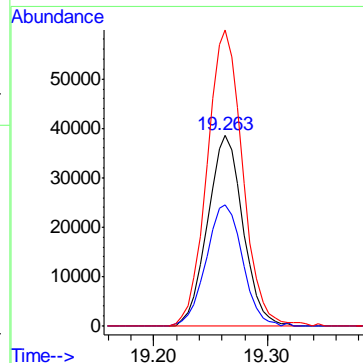
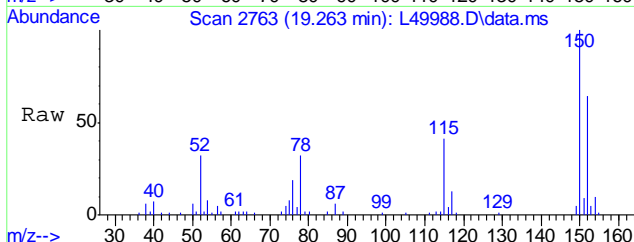
#74
 4-Bromofluorobenzene
 Concen: 18.23 ug/Kg
 RT: 17.762 min Scan# 2488
 Delta R.T. -0.010 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

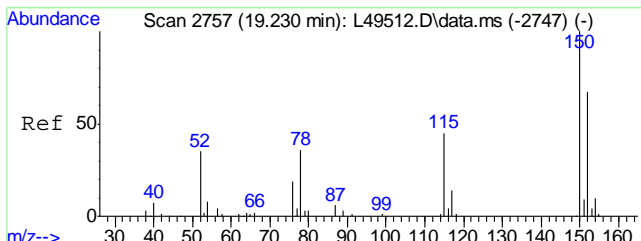
Tgt Ion	Resp	Lower	Upper
95	939651		
174	67.4	41.6	81.6
176	65.0	39.6	79.6



#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

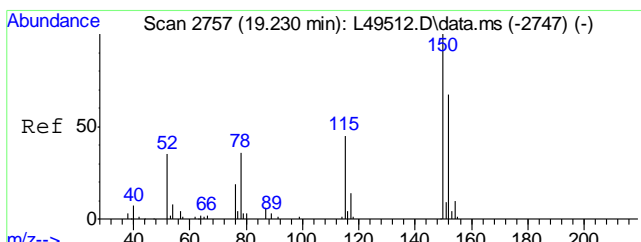
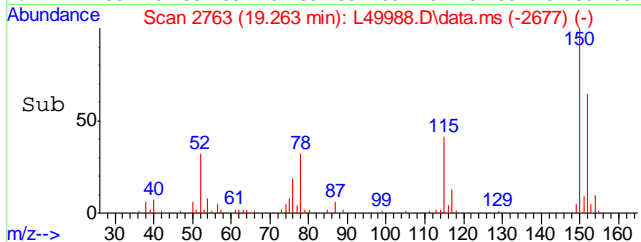
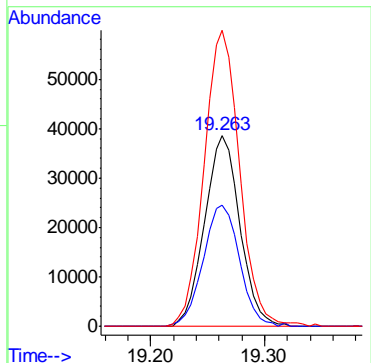
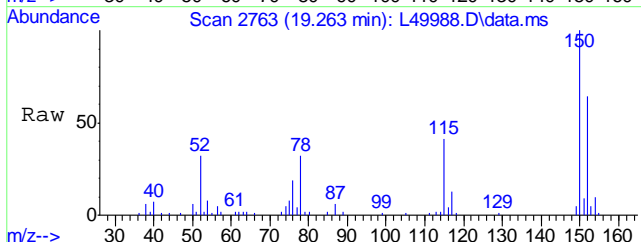
Tgt Ion	Resp	Lower	Upper
152	830575		
152	100		
115	65.8	48.8	88.8
150	156.4	174.3	214.3#





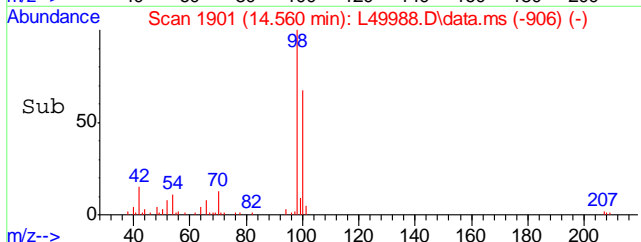
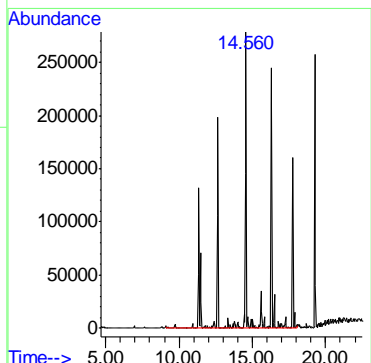
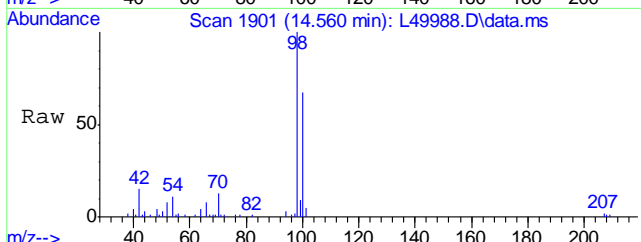
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	65.8	41.6	81.6
150	156.4	176.9	216.9#



#100
 TPH-GRO (C6-C10)
 Concen: 88.68 ug/Kg m
 RT: 14.560 min Scan# 1901
 Delta R.T. 0.034 min
 Lab File: L49988.D
 Acq: 12 Jul 2016 8:39 pm

Tgt Ion:TIC Resp:35170756



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160711\
Data File : L49961.D
Acq On : 11 Jul 2016 8:43 pm
Operator : johannat
Sample : C46435-8R
Misc : MS1912,VL1498,5.77,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 10:54:56 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	811973	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.650	114	1405340	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.294	117	1223799	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.257	152	574021	20.00	ug/Kg	-0.04
99) 1,4-Dichlorobenzene-d4A	19.257	152	574021	20.00	ug/Kg	-0.04
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	487565	20.06	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery	=	100.30%	
56) Toluene-d8	14.559	98	1645436	19.04	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery	=	95.20%	
74) 4-Bromofluorobenzene	17.757	95	690527	19.22	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery	=	96.10%	
Target Compounds						
100) TPH-GRO (C6-C10)	14.559	TIC	19778336m	58.20	ug/Kg	Qvalue

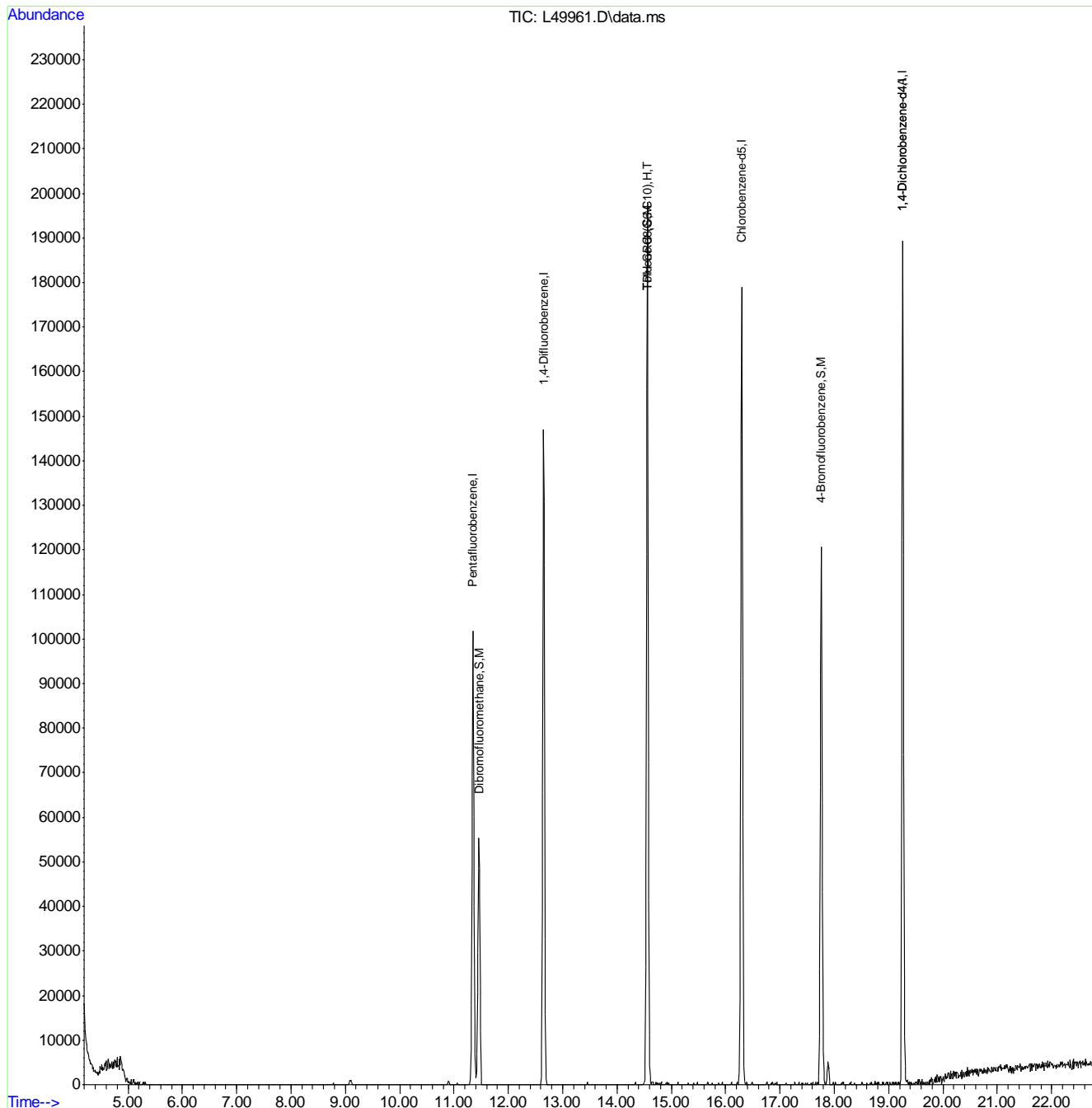
(#) = qualifier out of range (m) = manual integration (+) = signals summed

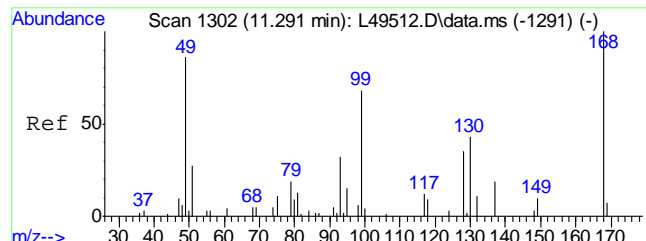
6.1.11
6

Quantitation Report (QT Reviewed)

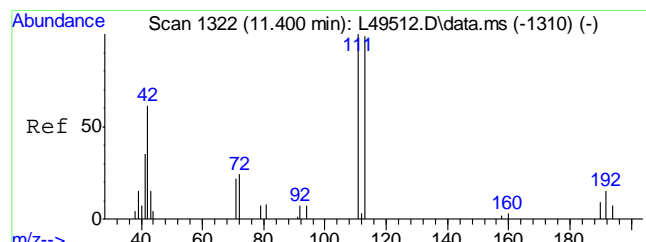
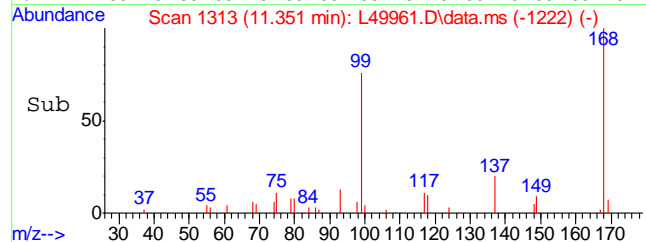
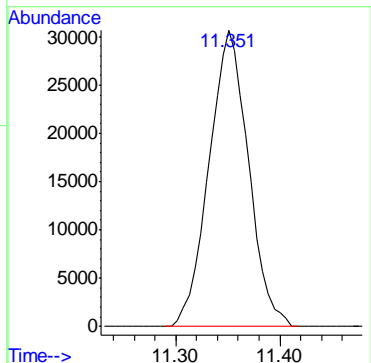
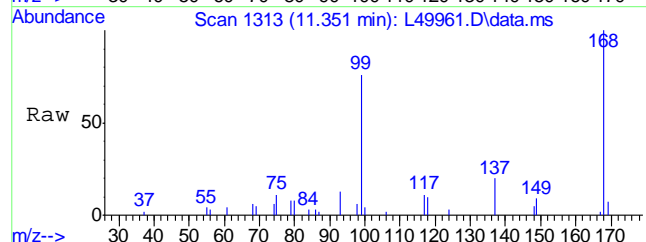
Data Path : C:\msdchem\1\DATA\L160711\
Data File : L49961.D
Acq On : 11 Jul 2016 8:43 pm
Operator : johannat
Sample : C46435-8R
Misc : MS1912,VL1498,5.77,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 10:54:56 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

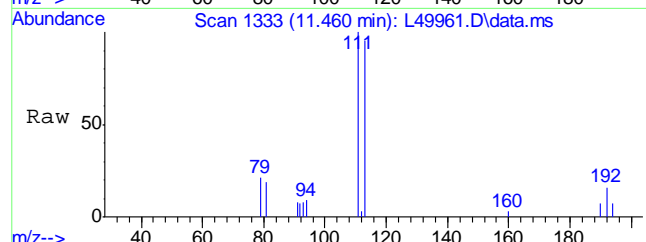




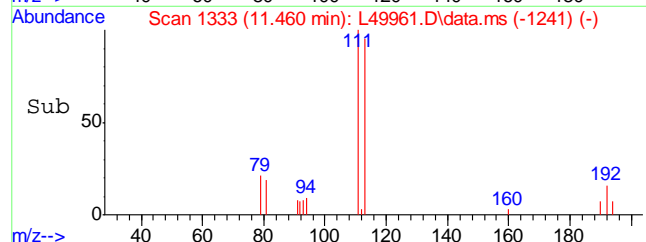
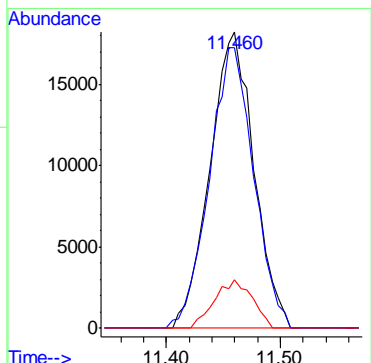
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:168 Resp: 811973

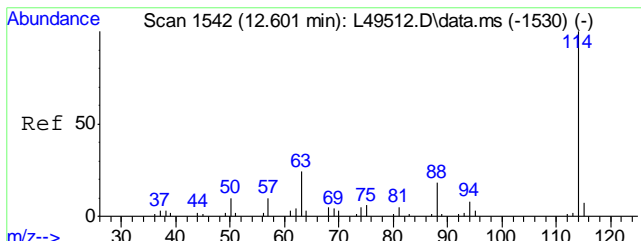


#36
 Dibromofluoromethane
 Concen: 20.06 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:111 Resp: 487565

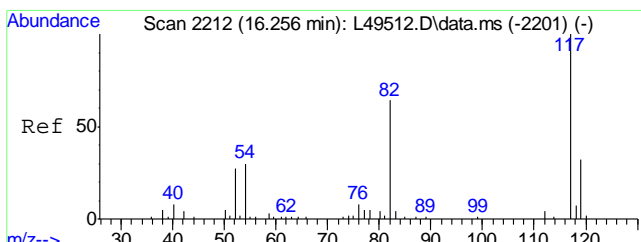
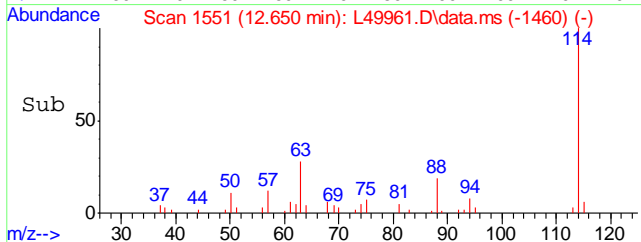
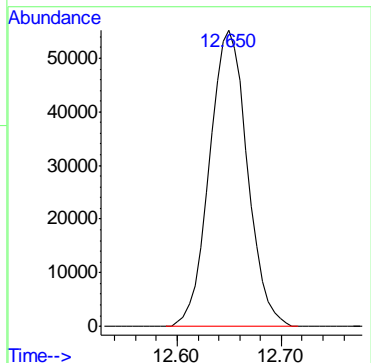
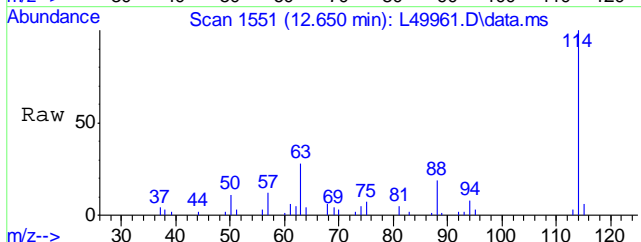


Ion	Ratio	Lower	Upper
111	100		
113	95.4	78.6	118.6
192	14.0	0.0	34.1

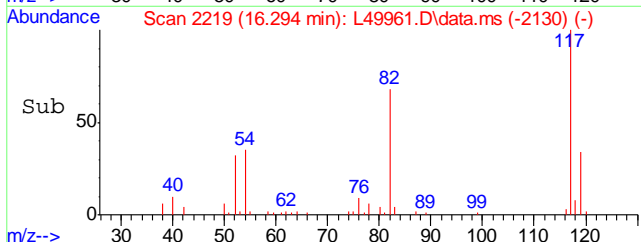
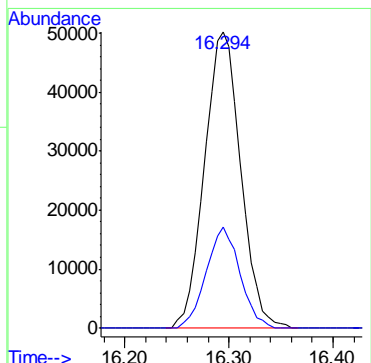
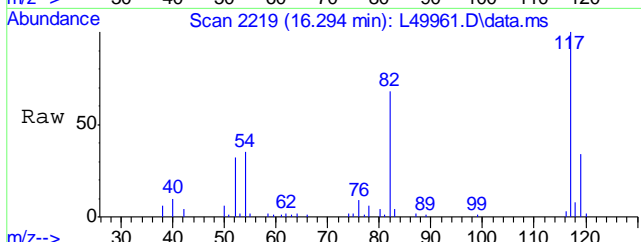


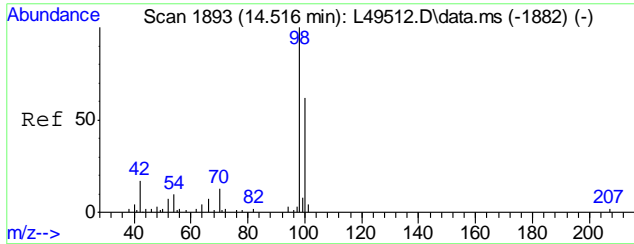


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:114 Resp: 1405340



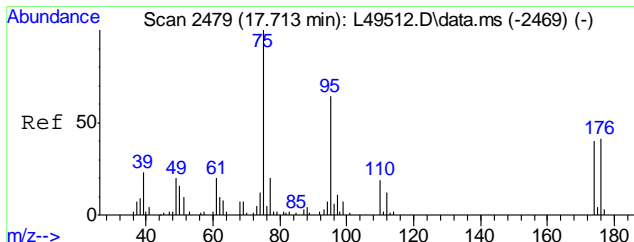
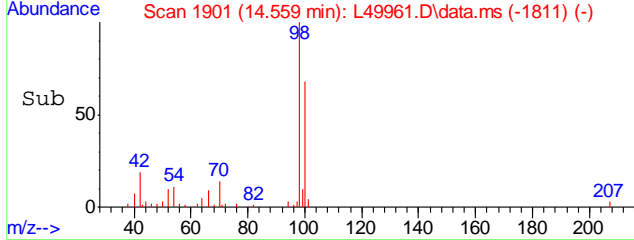
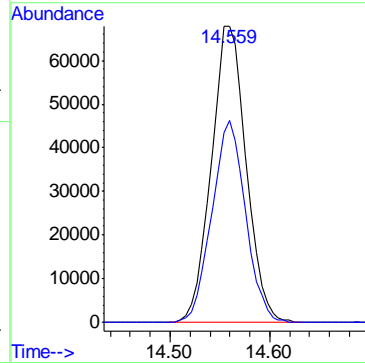
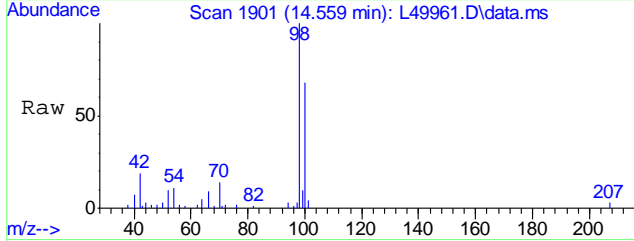
#55
 Chlorobenzene-d5
 Concen: 20.00 ug/Kg
 RT: 16.294 min Scan# 2219
 Delta R.T. -0.016 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:117 Resp: 1223799
 Ion Ratio Lower Upper
 117 100
 119 31.7 10.2 50.2





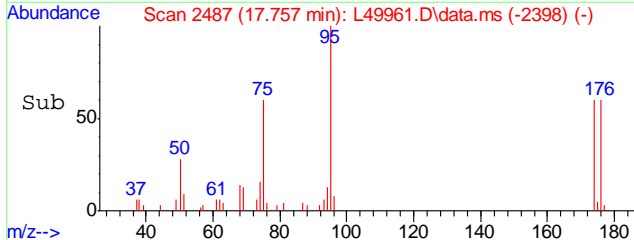
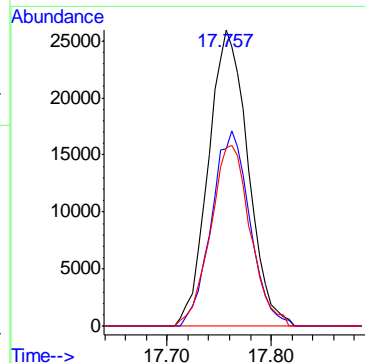
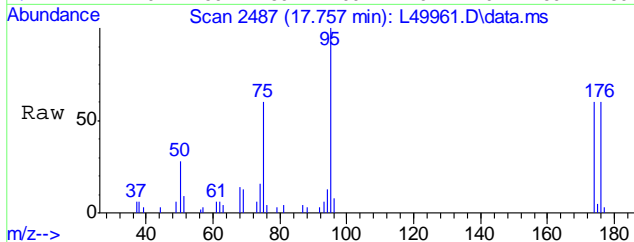
#56
Toluene-d8
Concen: 19.04 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.011 min
Lab File: L49961.D
Acq: 11 Jul 2016 8:43 pm

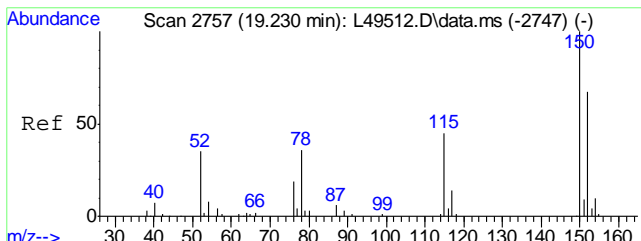
Tgt Ion: 98 Resp: 1645436
Ion Ratio Lower Upper
98 100
100 65.8 45.2 85.2



#74
4-Bromofluorobenzene
Concen: 19.22 ug/Kg
RT: 17.757 min Scan# 2487
Delta R.T. -0.016 min
Lab File: L49961.D
Acq: 11 Jul 2016 8:43 pm

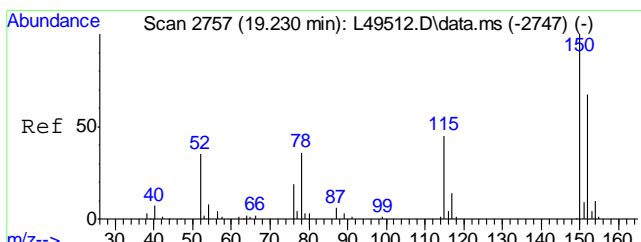
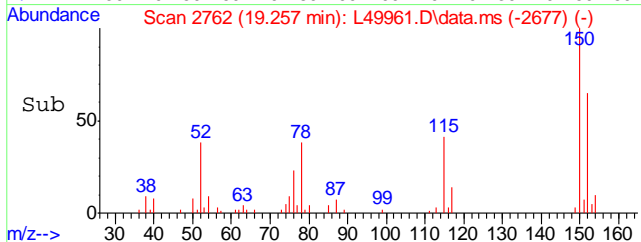
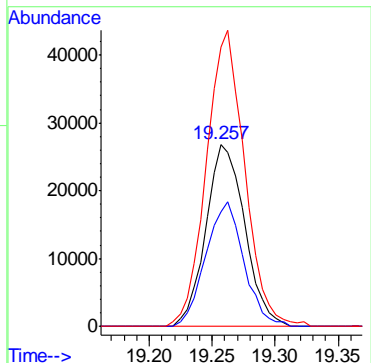
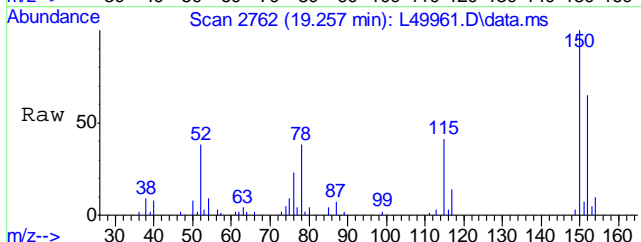
Tgt Ion: 95 Resp: 690527
Ion Ratio Lower Upper
95 100
174 64.1 41.6 81.6
176 61.3 39.6 79.6





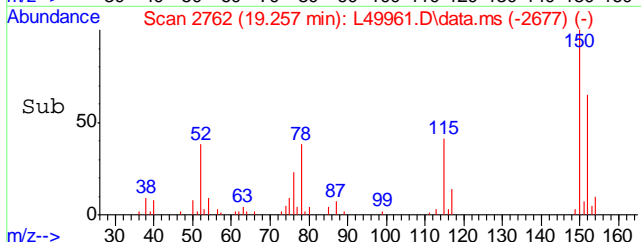
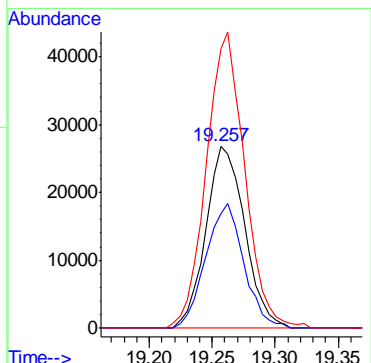
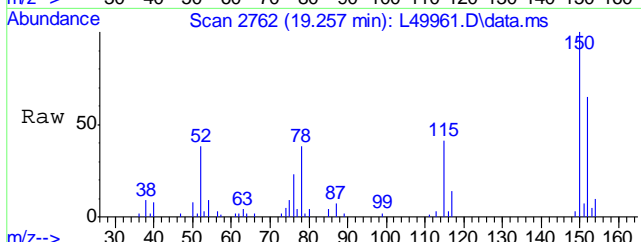
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.257 min Scan# 2762
 Delta R.T. -0.035 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm

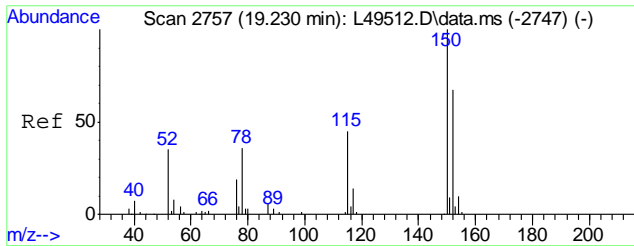
Tgt Ion	Resp	Lower	Upper
152	100		
115	66.9	48.8	88.8
150	160.4	174.3	214.3#



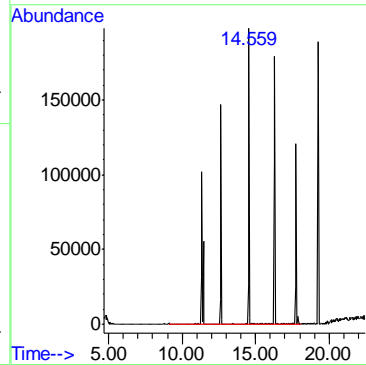
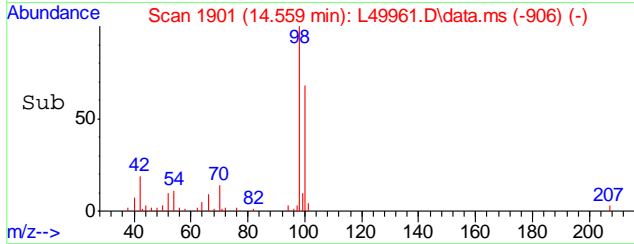
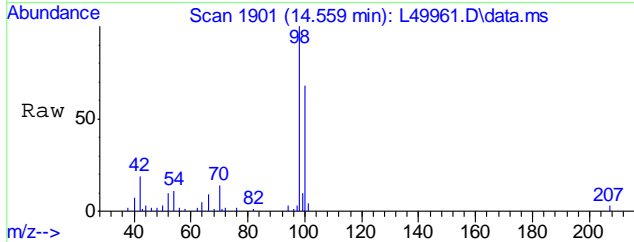
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.257 min Scan# 2762
 Delta R.T. -0.035 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	66.9	41.6	81.6
150	160.4	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 58.20 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49961.D
Acq: 11 Jul 2016 8:43 pm
Tgt Ion:TIC Resp:19778336



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160711\
Data File : L49961.D
Acq On : 11 Jul 2016 8:43 pm
Operator : johannat
Sample : C46435-8R
Misc : MS1912,VL1498,5.77,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 10:54:56 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	811973	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.650	114	1405340	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.294	117	1223799	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.257	152	574021	20.00	ug/Kg	-0.04
99) 1,4-Dichlorobenzene-d4A	19.257	152	574021	20.00	ug/Kg	-0.04
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	487565	20.06	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery	=	100.30%	
56) Toluene-d8	14.559	98	1645436	19.04	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery	=	95.20%	
74) 4-Bromofluorobenzene	17.757	95	690527	19.22	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery	=	96.10%	
Target Compounds						
100) TPH-GRO (C6-C10)	14.559	TIC	19778336m	58.20	ug/Kg	Qvalue

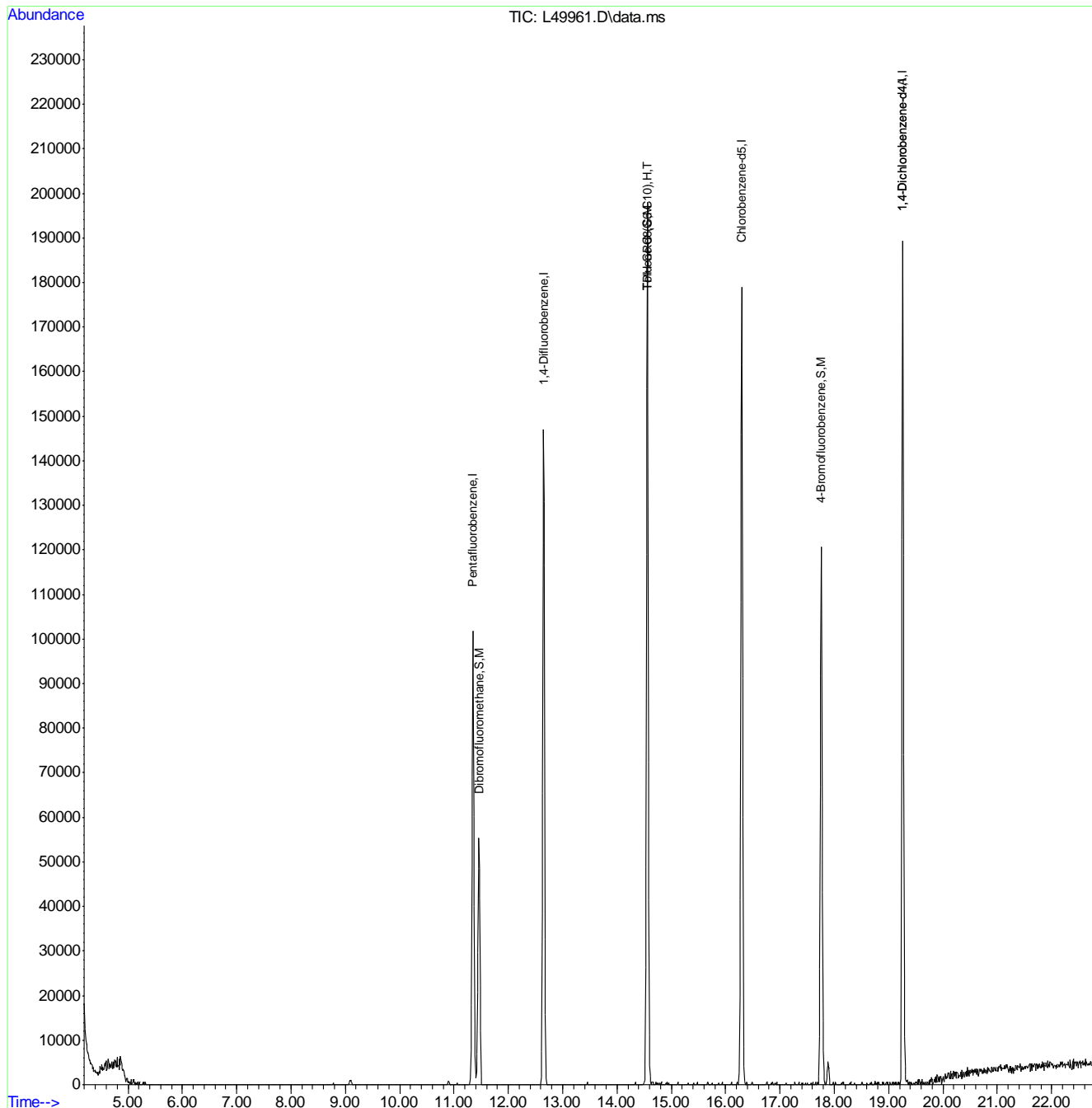
(#) = qualifier out of range (m) = manual integration (+) = signals summed

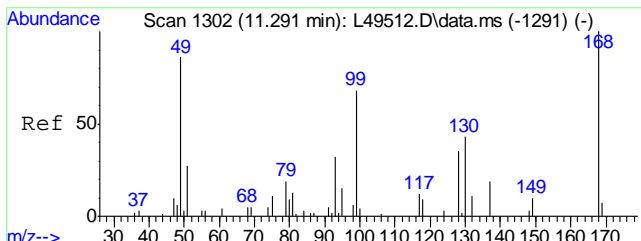
6.1.12
6

Quantitation Report (QT Reviewed)

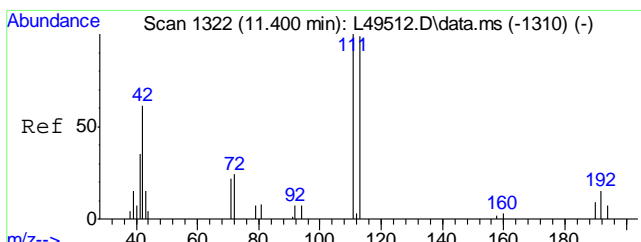
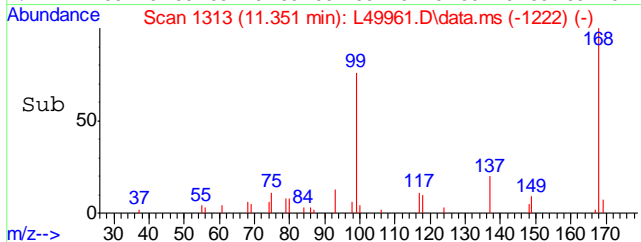
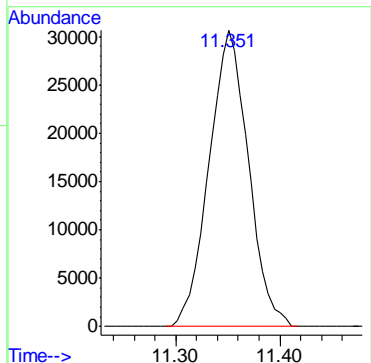
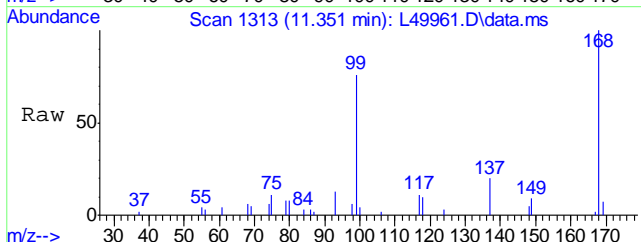
Data Path : C:\msdchem\1\DATA\L160711\
 Data File : L49961.D
 Acq On : 11 Jul 2016 8:43 pm
 Operator : johannat
 Sample : C46435-8R
 Misc : MS1912,VL1498,5.77,,,,,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 10:54:56 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

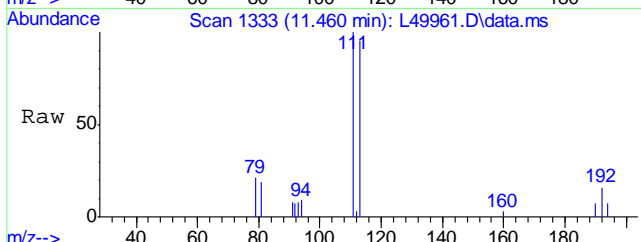




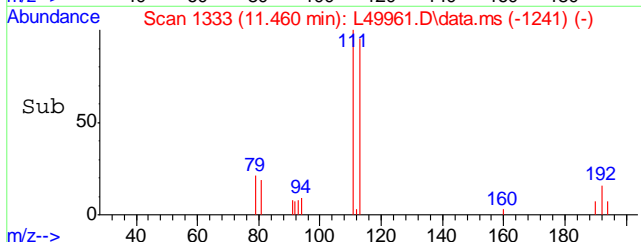
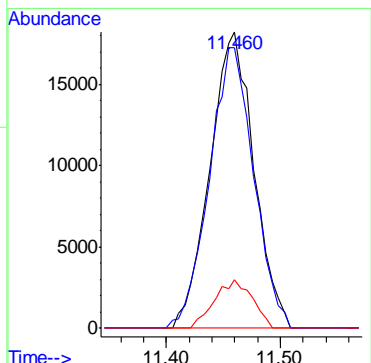
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:168 Resp: 811973

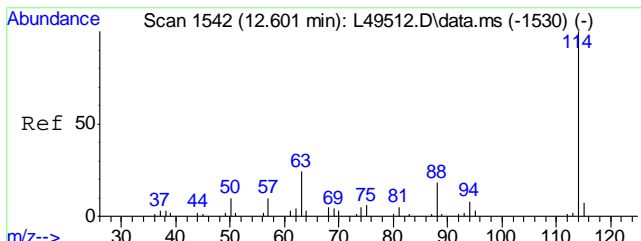


#36
 Dibromofluoromethane
 Concen: 20.06 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:111 Resp: 487565

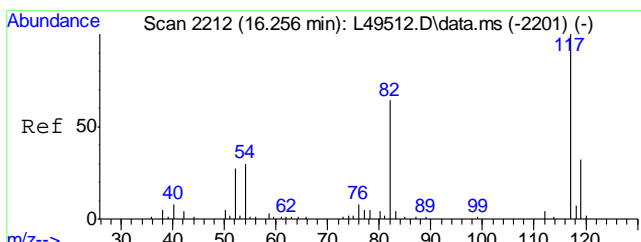
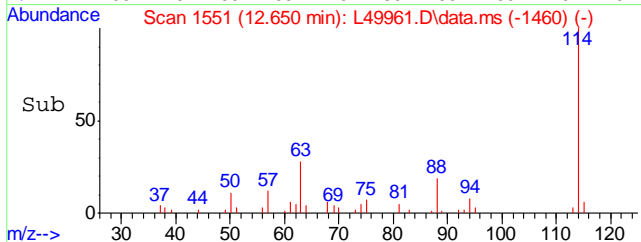
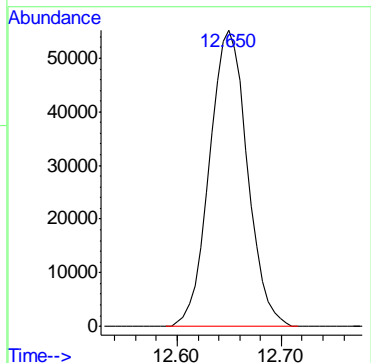
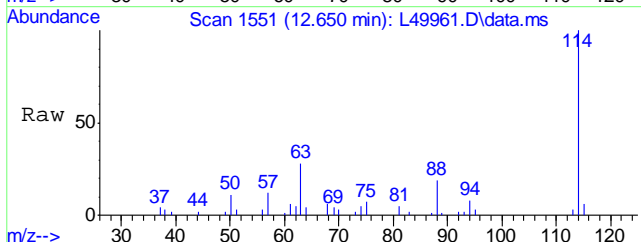


Ion	Ratio	Lower	Upper
111	100		
113	95.4	78.6	118.6
192	14.0	0.0	34.1

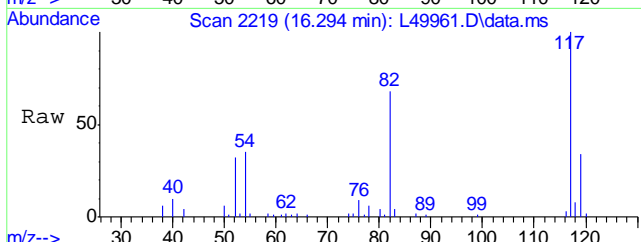




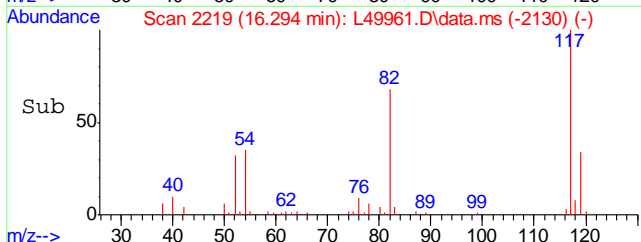
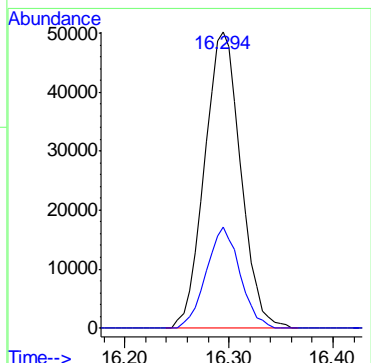
#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:114 Resp: 1405340

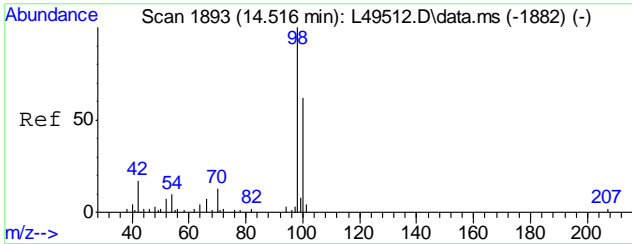


#55
 Chlorobenzene-d5
 Concen: 20.00 ug/Kg
 RT: 16.294 min Scan# 2219
 Delta R.T. -0.016 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm
 Tgt Ion:117 Resp: 1223799



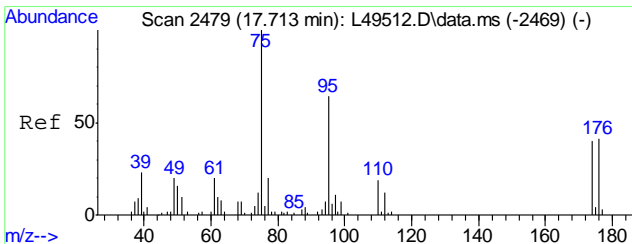
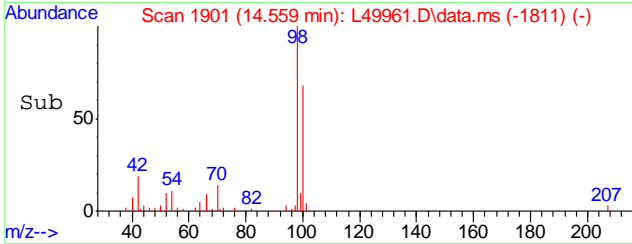
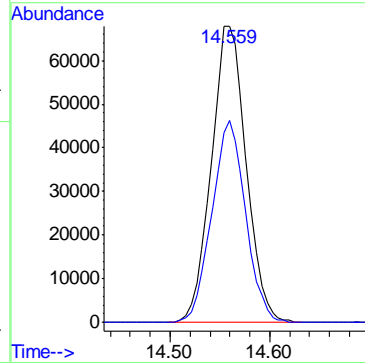
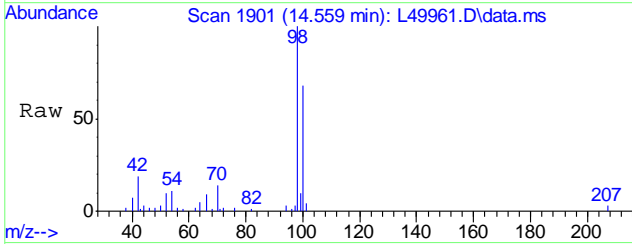
Ion	Ratio	Lower	Upper
117	100		
119	31.7	10.2	50.2





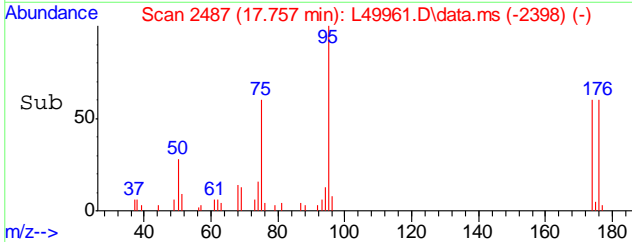
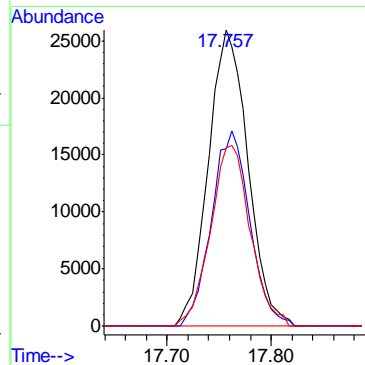
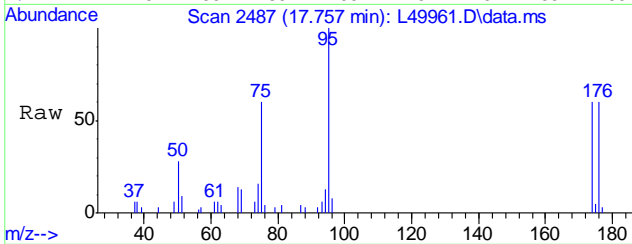
#56
Toluene-d8
Concen: 19.04 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.011 min
Lab File: L49961.D
Acq: 11 Jul 2016 8:43 pm

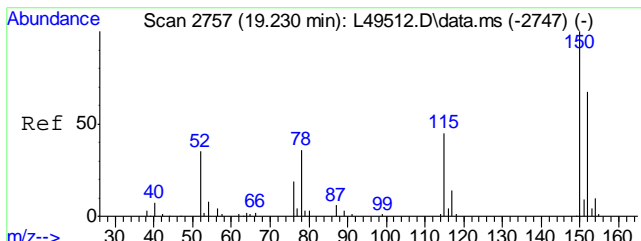
Tgt Ion	Resp	Lower	Upper
98	1645436		
98	100		
100	65.8	45.2	85.2



#74
4-Bromofluorobenzene
Concen: 19.22 ug/Kg
RT: 17.757 min Scan# 2487
Delta R.T. -0.016 min
Lab File: L49961.D
Acq: 11 Jul 2016 8:43 pm

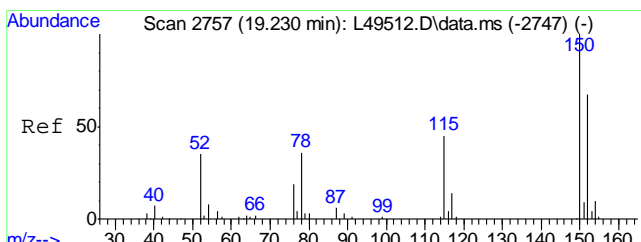
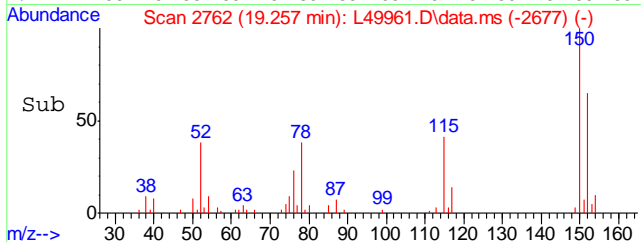
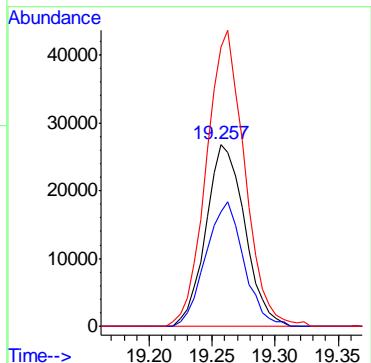
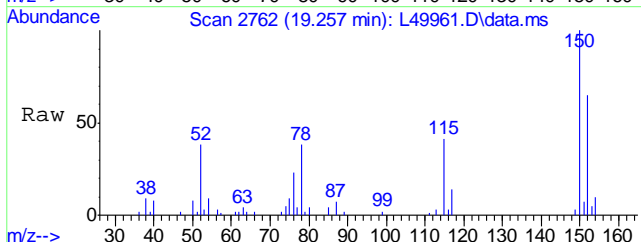
Tgt Ion	Resp	Lower	Upper
95	690527		
95	100		
174	64.1	41.6	81.6
176	61.3	39.6	79.6





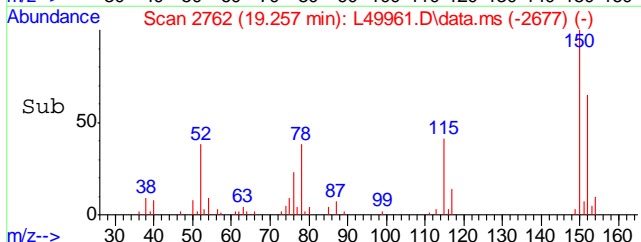
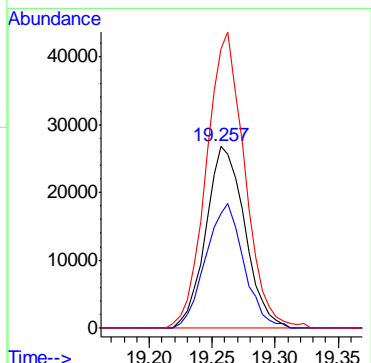
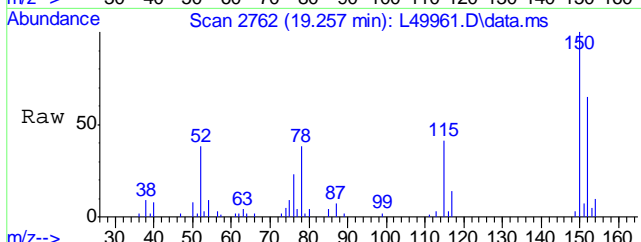
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.257 min Scan# 2762
 Delta R.T. -0.035 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm

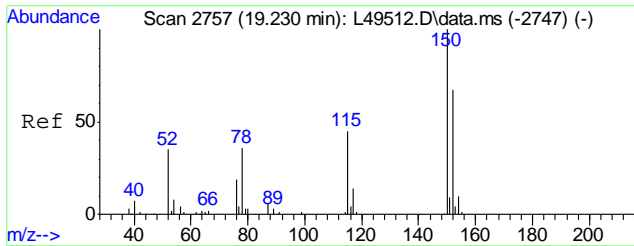
Tgt Ion	Resp	Lower	Upper
152	100		
115	66.9	48.8	88.8
150	160.4	174.3	214.3#



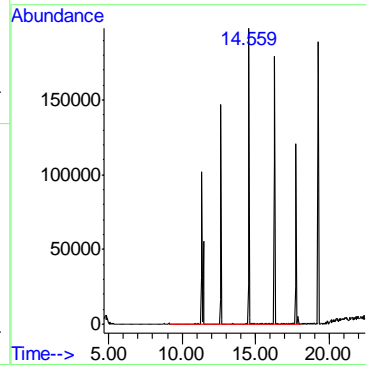
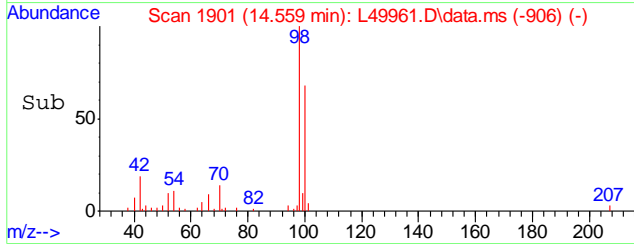
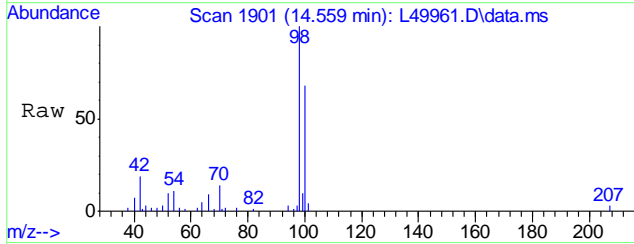
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.257 min Scan# 2762
 Delta R.T. -0.035 min
 Lab File: L49961.D
 Acq: 11 Jul 2016 8:43 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	66.9	41.6	81.6
150	160.4	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 58.20 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49961.D
Acq: 11 Jul 2016 8:43 pm
Tgt Ion:TIC Resp:19778336



6.1.12
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160711\
 Data File : L49962.D
 Acq On : 11 Jul 2016 9:13 pm
 Operator : johannat
 Sample : C46435-9R
 Misc : MS1912,VL1498,5.31,,,,,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 10:55:04 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.346	168	857163	20.00	ug/Kg	-0.01
40) 1,4-Difluorobenzene	12.650	114	1447511	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1244719	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	608381	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	608381	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.455	111	507463	19.77	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	98.85%		
56) Toluene-d8	14.559	98	1697641	19.31	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery =	96.55%		
74) 4-Bromofluorobenzene	17.757	95	716820	19.62	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery =	98.10%		
Target Compounds						
100) TPH-GRO (C6-C10)	14.559	TIC	20775324m	57.02	ug/Kg	Qvalue

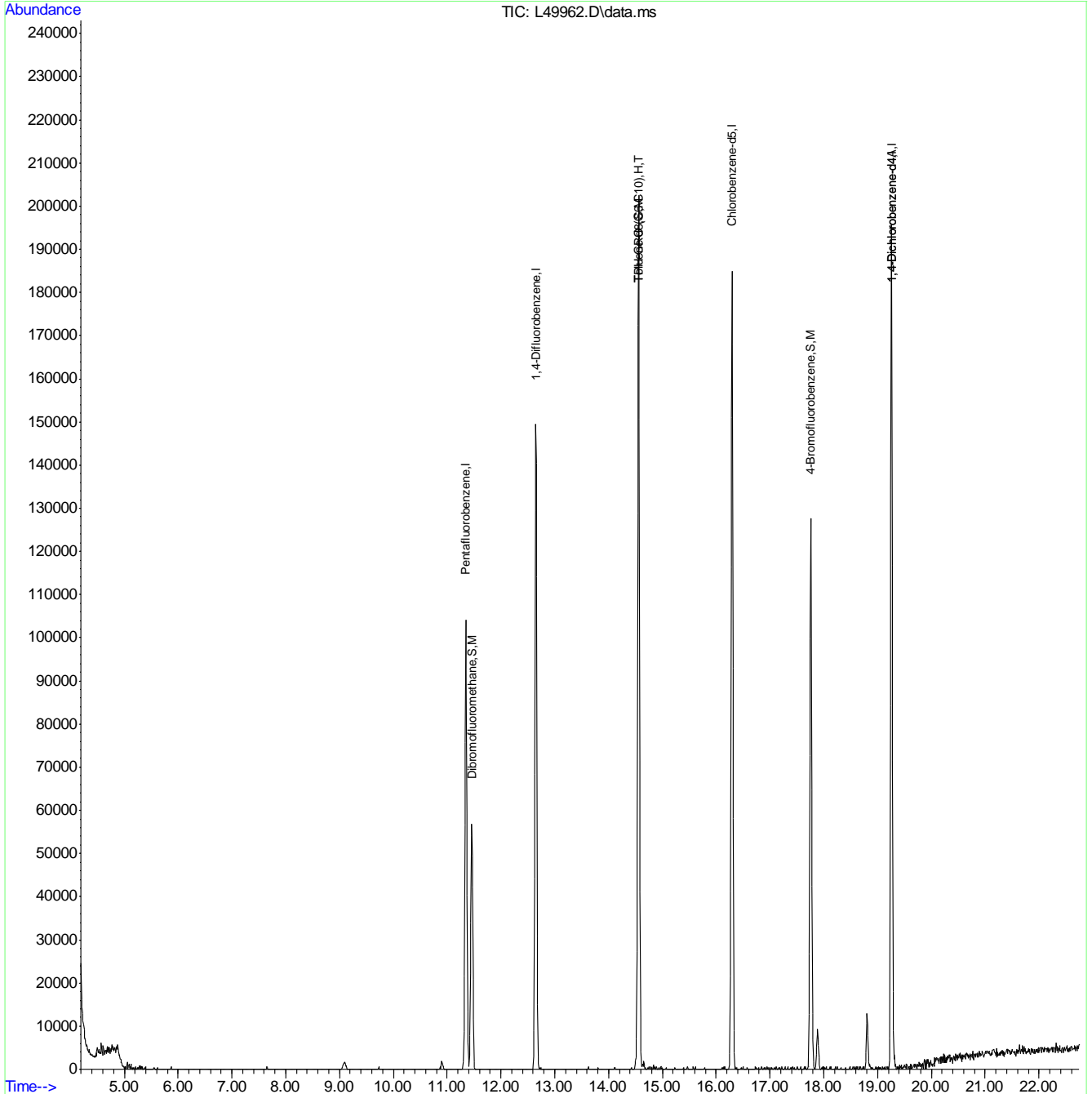
(#) = qualifier out of range (m) = manual integration (+) = signals summed

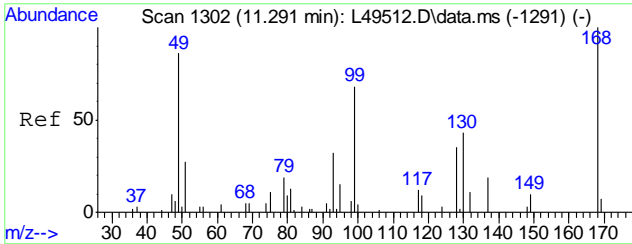
6.1.13
6

Quantitation Report (QT Reviewed)

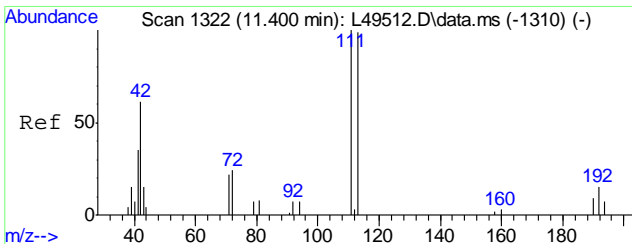
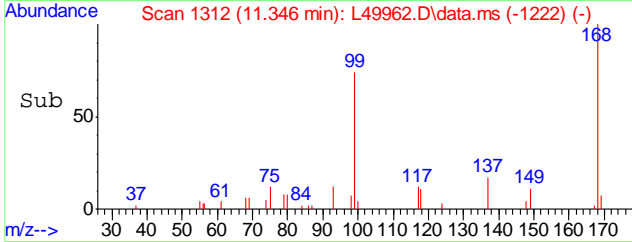
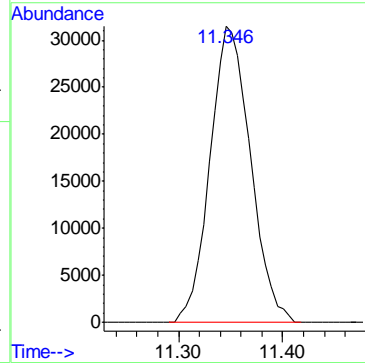
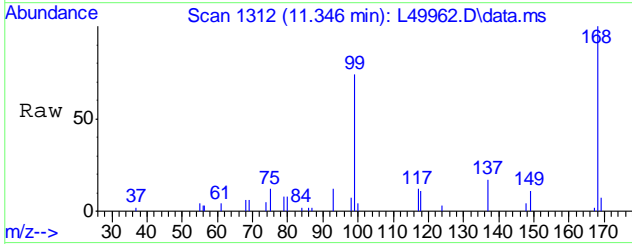
Data Path : C:\msdchem\1\DATA\L160711\
Data File : L49962.D
Acq On : 11 Jul 2016 9:13 pm
Operator : johannat
Sample : C46435-9R
Misc : MS1912,VL1498,5.31,,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 10:55:04 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration



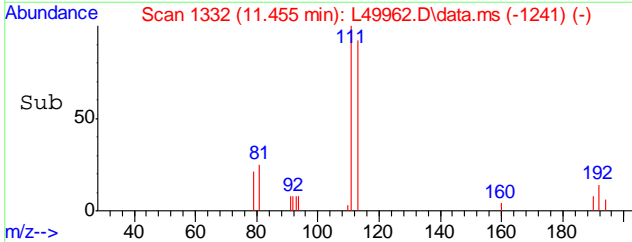
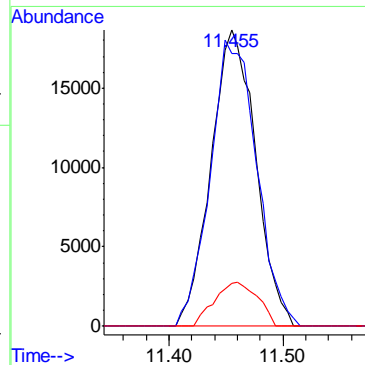
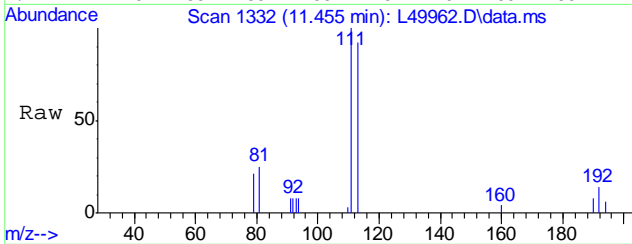


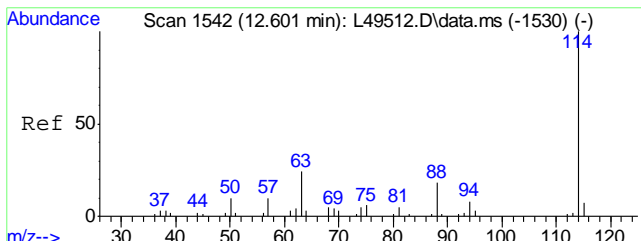
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.346 min Scan# 1312
 Delta R.T. -0.010 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm
 Tgt Ion:168 Resp: 857163



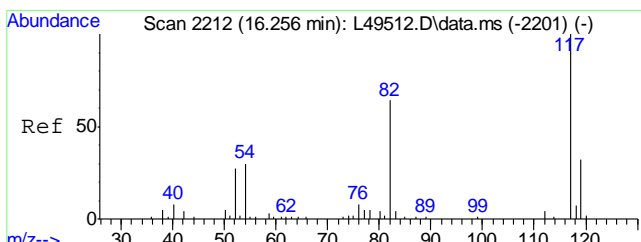
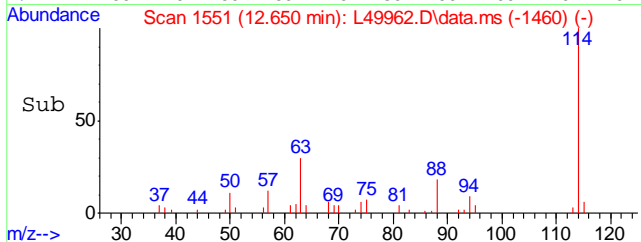
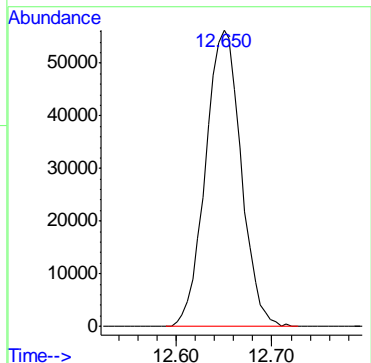
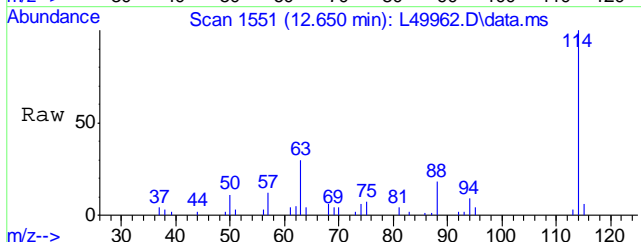
#36
 Dibromofluoromethane
 Concen: 19.77 ug/Kg
 RT: 11.455 min Scan# 1332
 Delta R.T. -0.005 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm

Tgt Ion:111 Resp: 507463
 Ion Ratio Lower Upper
 111 100
 113 99.9 78.6 118.6
 192 14.2 0.0 34.1

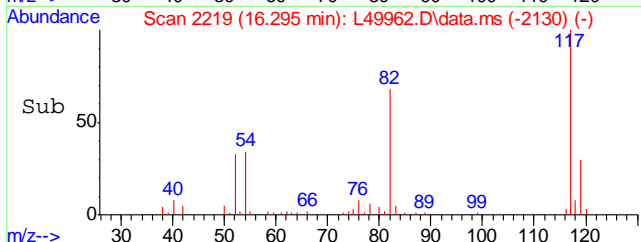
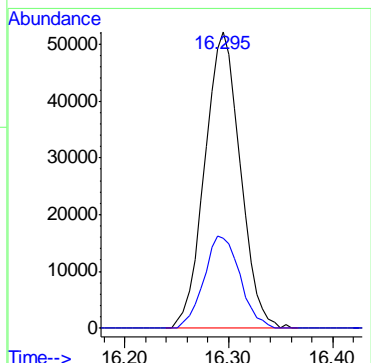
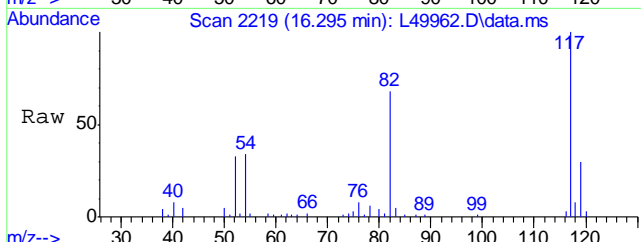




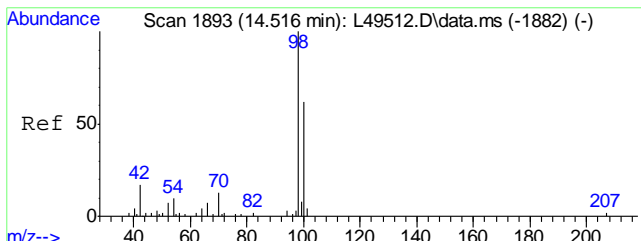
#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm
 Tgt Ion:114 Resp: 1447511



#55
 Chlorobenzene-d5
 Concen: 20.00 ug/Kg
 RT: 16.295 min Scan# 2219
 Delta R.T. -0.016 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm
 Tgt Ion:117 Resp: 1244719

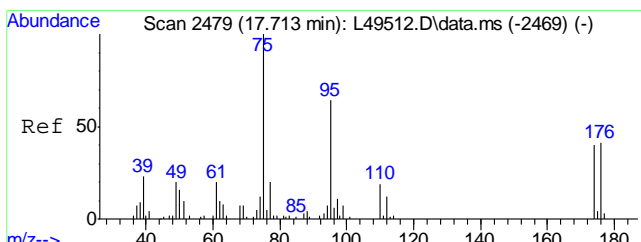
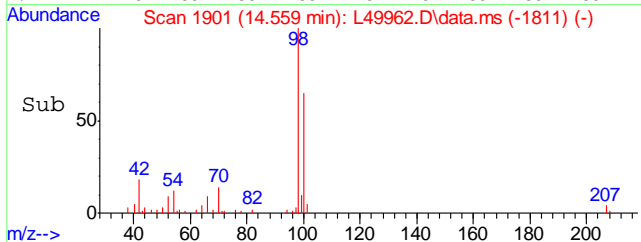
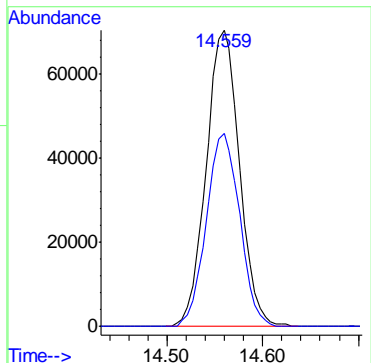
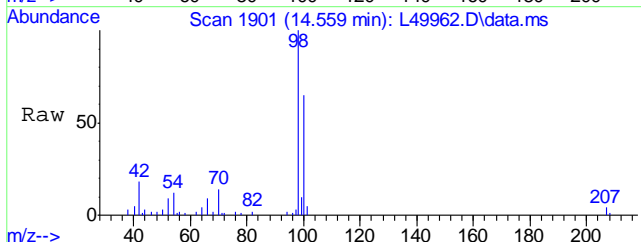


Ion	Ratio	Lower	Upper
117	100		
119	31.5	10.2	50.2



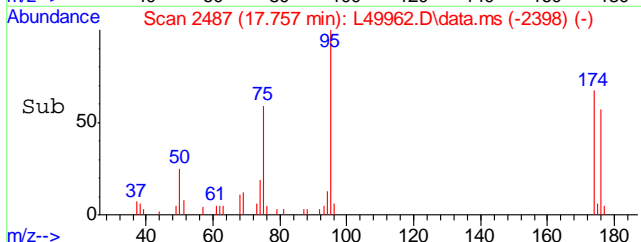
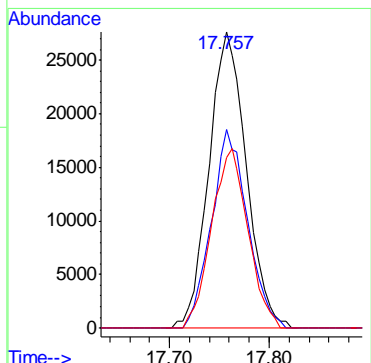
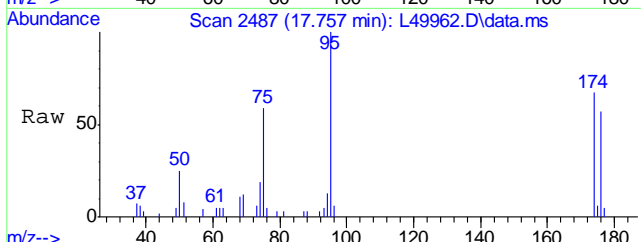
#56
Toluene-d8
Concen: 19.31 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49962.D
Acq: 11 Jul 2016 9:13 pm

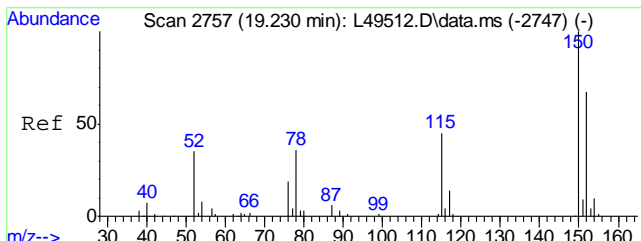
Tgt Ion:	98	Resp:	1697641
Ion Ratio	100	Lower	Upper
98	100		
100	65.4	45.2	85.2



#74
4-Bromofluorobenzene
Concen: 19.62 ug/Kg
RT: 17.757 min Scan# 2487
Delta R.T. -0.016 min
Lab File: L49962.D
Acq: 11 Jul 2016 9:13 pm

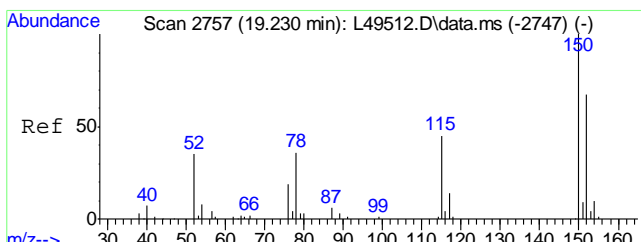
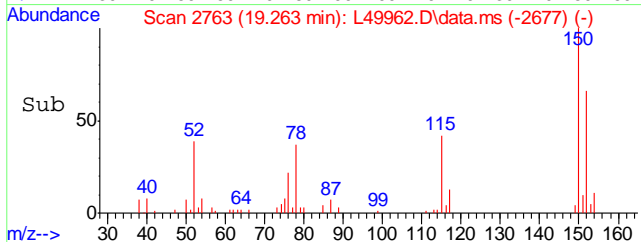
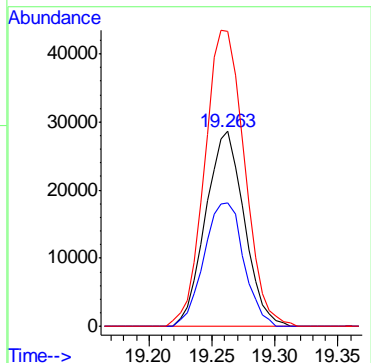
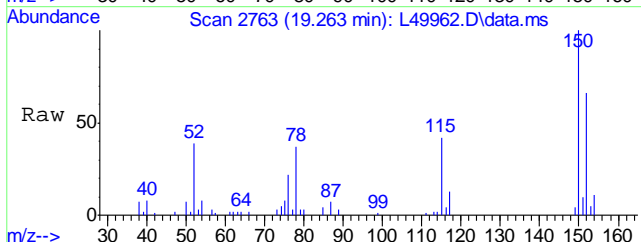
Tgt Ion:	95	Resp:	716820
Ion Ratio	100	Lower	Upper
95	100		
174	64.8	41.6	81.6
176	59.3	39.6	79.6





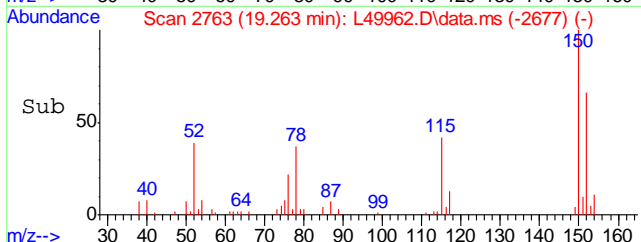
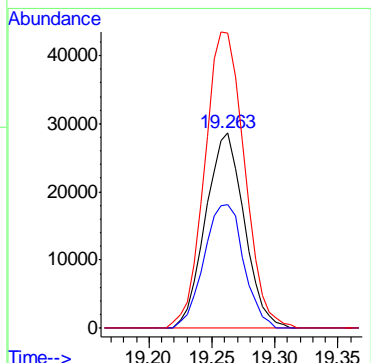
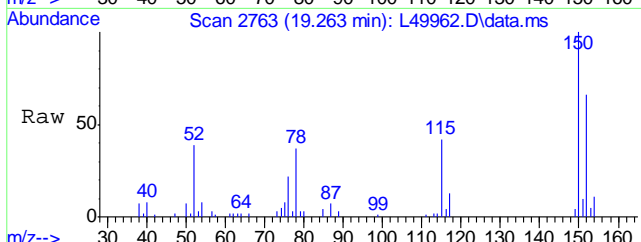
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm

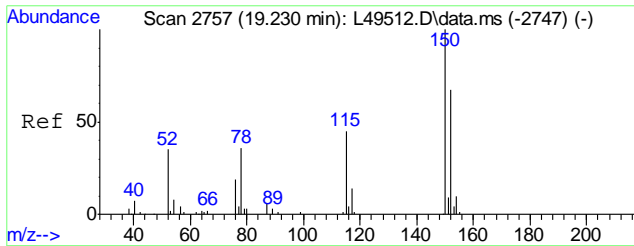
Tgt Ion	Resp	Lower	Upper
152	100		
115	64.9	48.8	88.8
150	156.6	174.3	214.3#



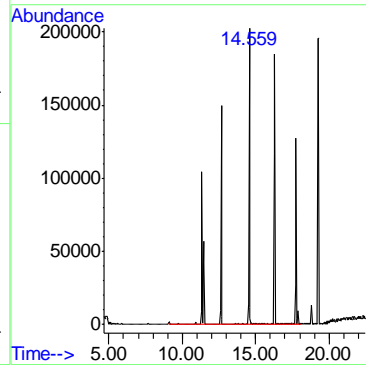
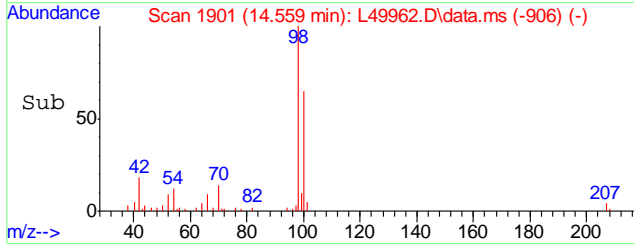
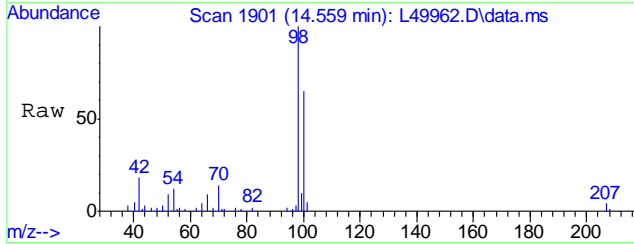
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	64.9	41.6	81.6
150	156.6	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 57.02 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49962.D
Acq: 11 Jul 2016 9:13 pm
Tgt Ion:TIC Resp:20775324



6.1.13
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160711\
 Data File : L49962.D
 Acq On : 11 Jul 2016 9:13 pm
 Operator : johannat
 Sample : C46435-9R
 Misc : MS1912,VL1498,5.31,,,,,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 10:55:04 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

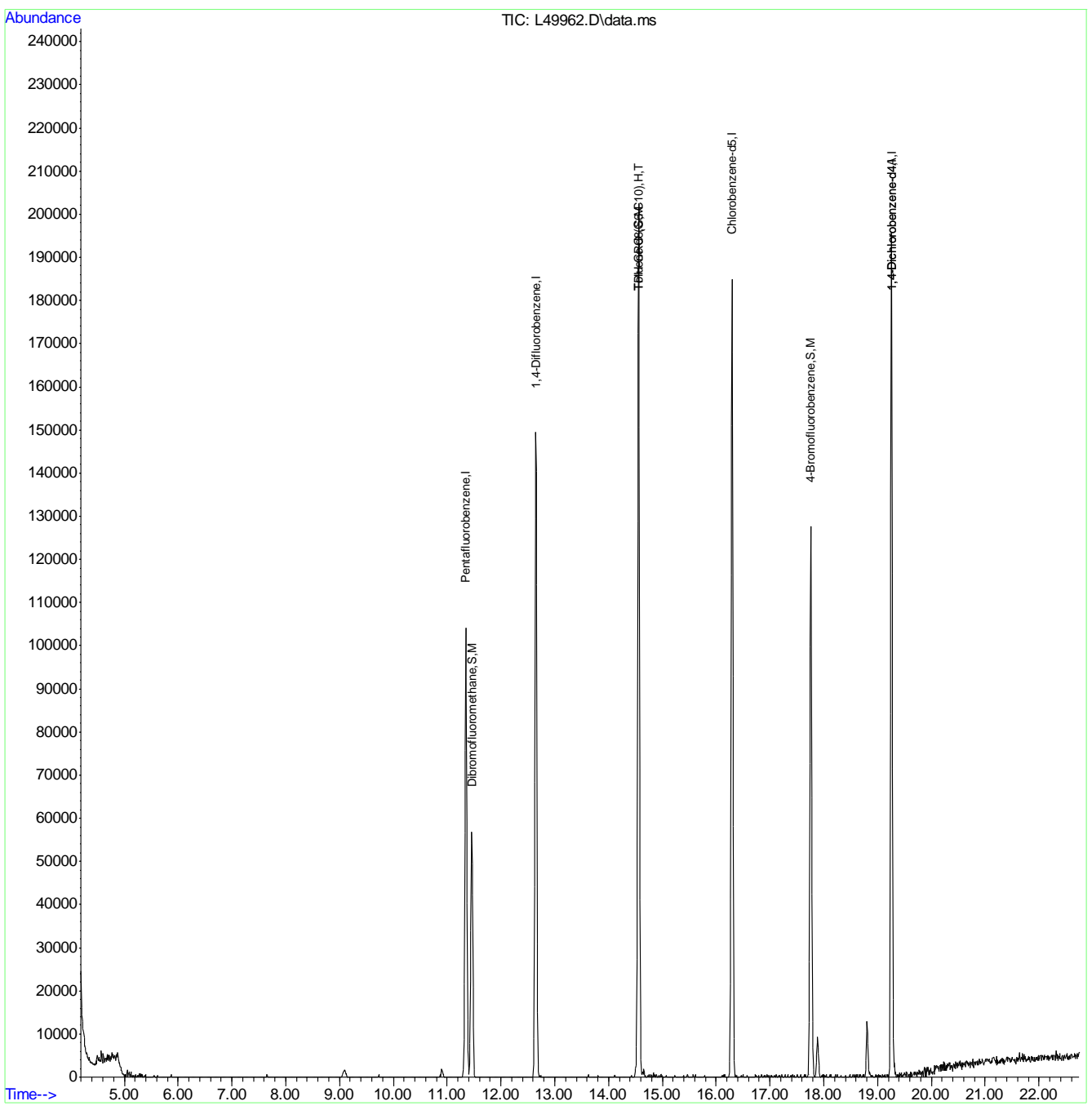
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.346	168	857163	20.00	ug/Kg	-0.01
40) 1,4-Difluorobenzene	12.650	114	1447511	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1244719	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	608381	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	608381	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.455	111	507463	19.77	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery	=	98.85%	
56) Toluene-d8	14.559	98	1697641	19.31	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery	=	96.55%	
74) 4-Bromofluorobenzene	17.757	95	716820	19.62	ug/Kg	-0.02
Spiked Amount	20.000	Range 81 - 115	Recovery	=	98.10%	
Target Compounds						
100) TPH-GRO (C6-C10)	14.559	TIC	20775324m	57.02	ug/Kg	Qvalue

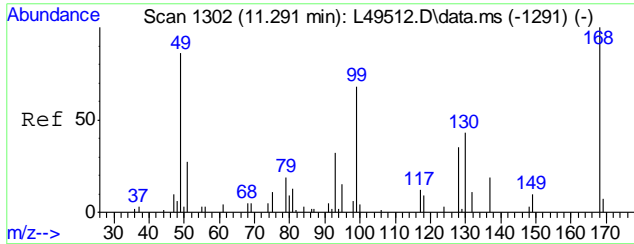
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

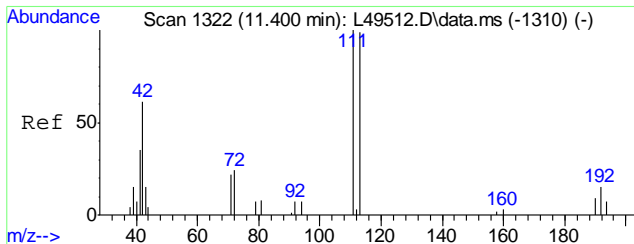
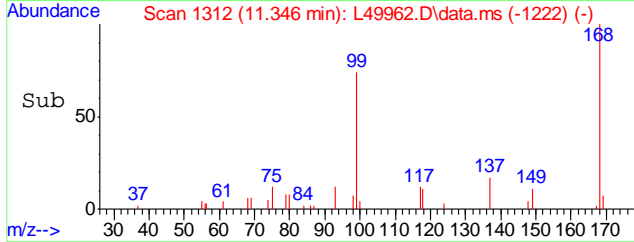
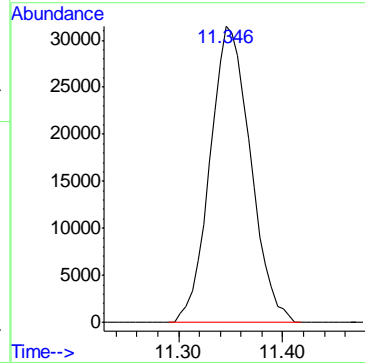
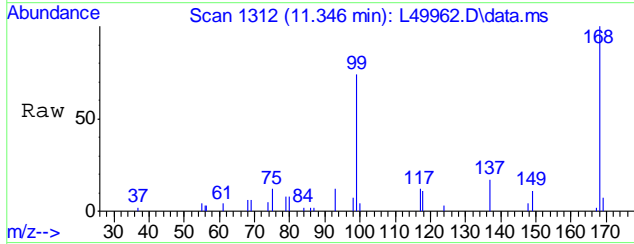
Data Path : C:\msdchem\1\DATA\L160711\
Data File : L49962.D
Acq On : 11 Jul 2016 9:13 pm
Operator : johannat
Sample : C46435-9R
Misc : MS1912,VL1498,5.31,,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 10:55:04 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration



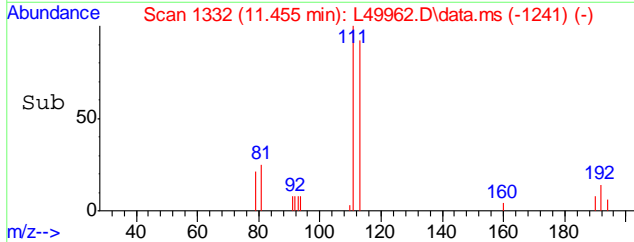
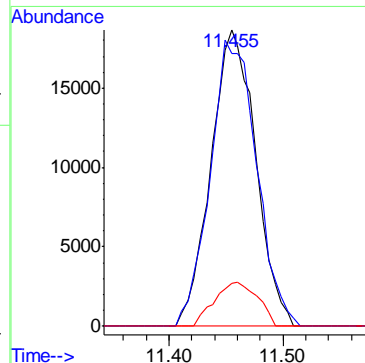
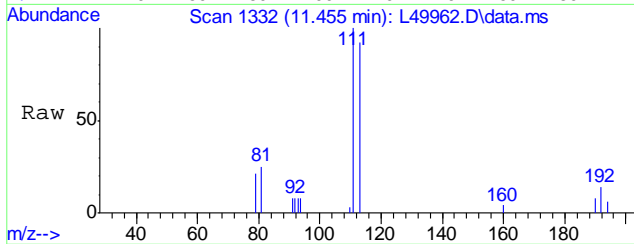


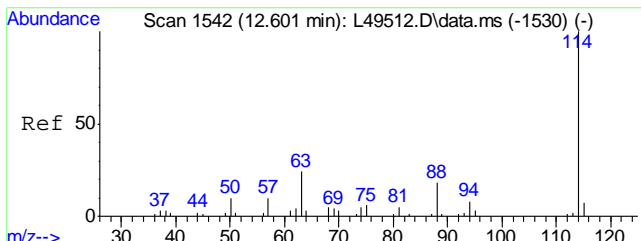
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.346 min Scan# 1312
 Delta R.T. -0.010 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm
 Tgt Ion:168 Resp: 857163



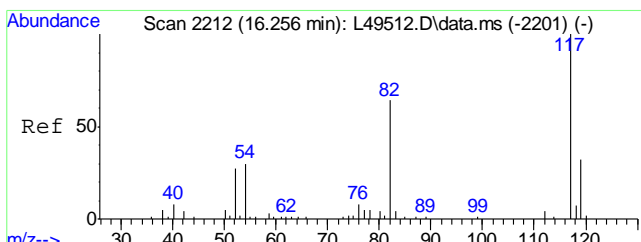
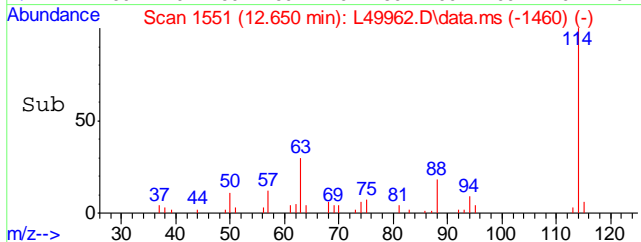
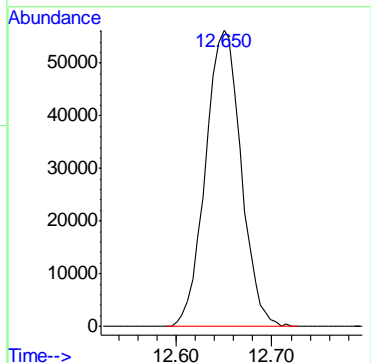
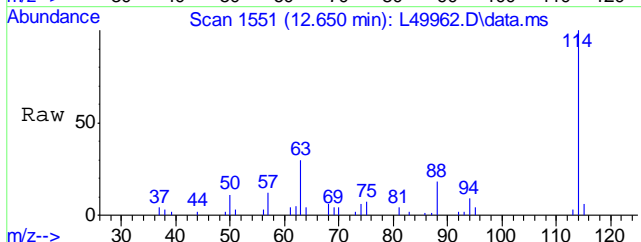
#36
 Dibromofluoromethane
 Concen: 19.77 ug/Kg
 RT: 11.455 min Scan# 1332
 Delta R.T. -0.005 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm
 Tgt Ion:111 Resp: 507463

Ion	Ratio	Lower	Upper
111	100		
113	99.9	78.6	118.6
192	14.2	0.0	34.1

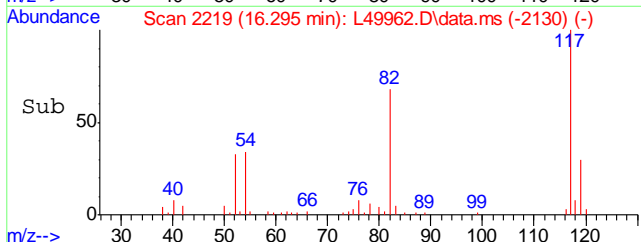
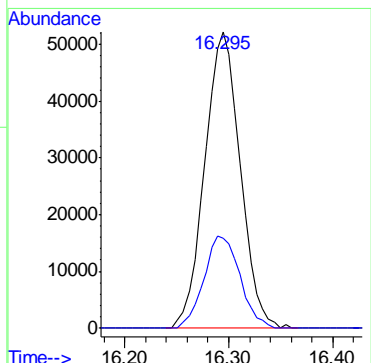
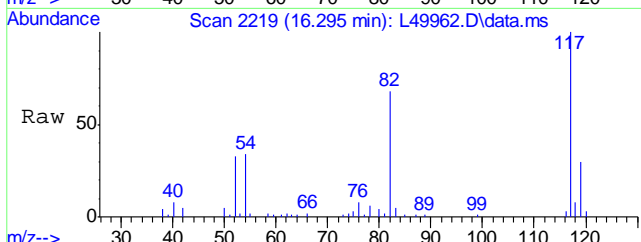




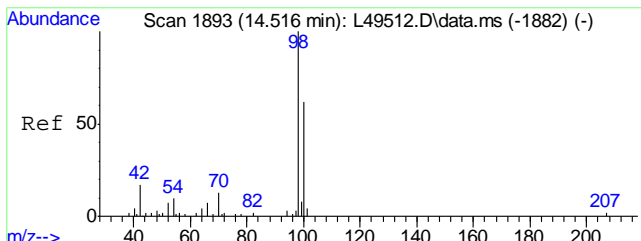
#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm
 Tgt Ion:114 Resp: 1447511



#55
 Chlorobenzene-d5
 Concen: 20.00 ug/Kg
 RT: 16.295 min Scan# 2219
 Delta R.T. -0.016 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm
 Tgt Ion:117 Resp: 1244719



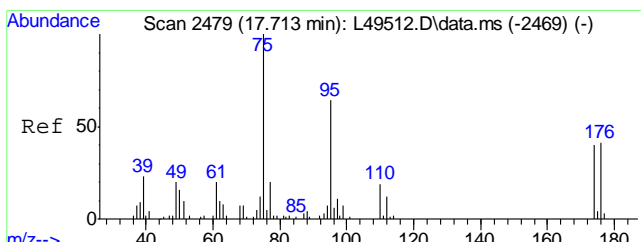
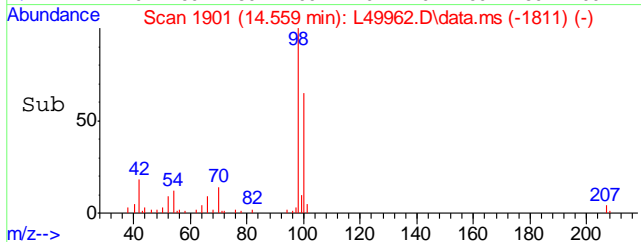
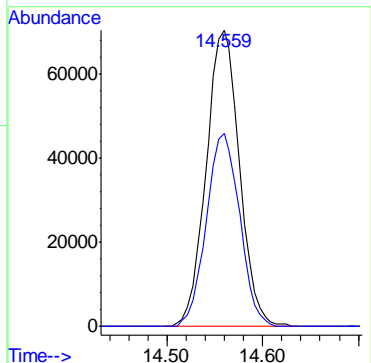
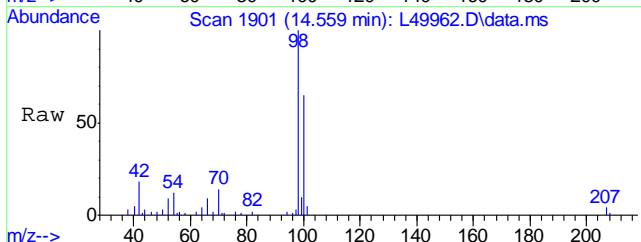
Ion	Ratio	Lower	Upper
117	100		
119	31.5	10.2	50.2



#56
Toluene-d8
Concen: 19.31 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49962.D
Acq: 11 Jul 2016 9:13 pm

Tgt Ion: 98 Resp: 1697641

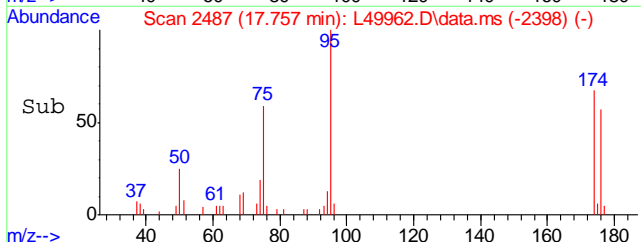
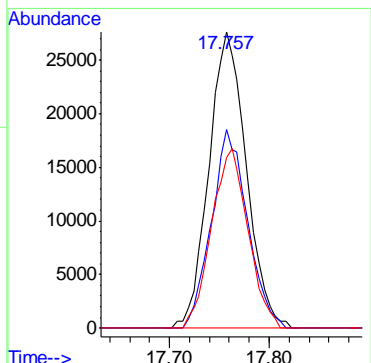
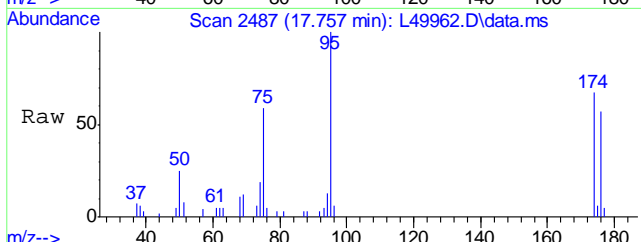
Ion	Ratio	Lower	Upper
98	100		
100	65.4	45.2	85.2

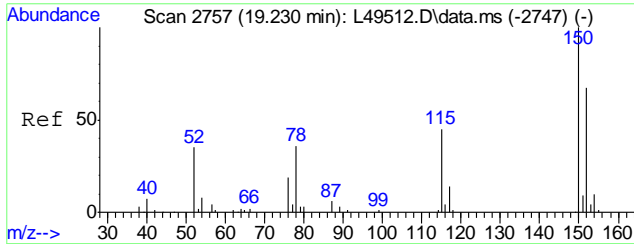


#74
4-Bromofluorobenzene
Concen: 19.62 ug/Kg
RT: 17.757 min Scan# 2487
Delta R.T. -0.016 min
Lab File: L49962.D
Acq: 11 Jul 2016 9:13 pm

Tgt Ion: 95 Resp: 716820

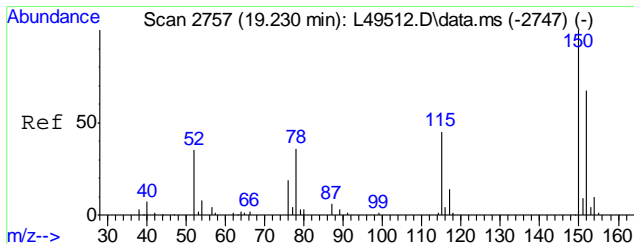
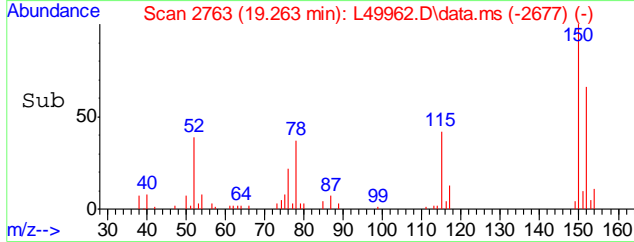
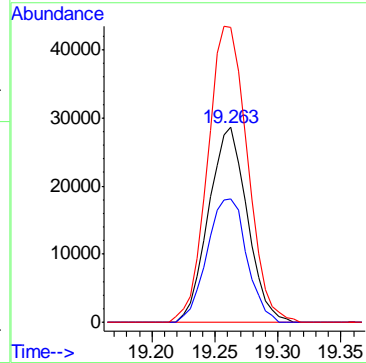
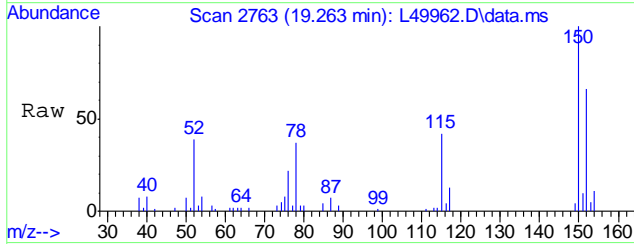
Ion	Ratio	Lower	Upper
95	100		
174	64.8	41.6	81.6
176	59.3	39.6	79.6





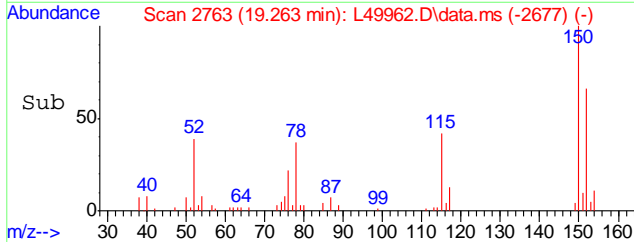
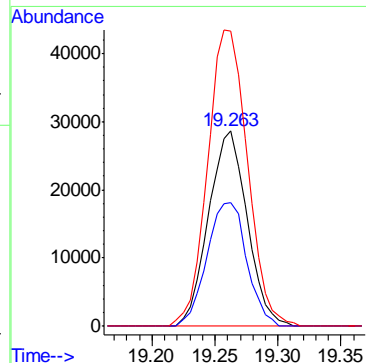
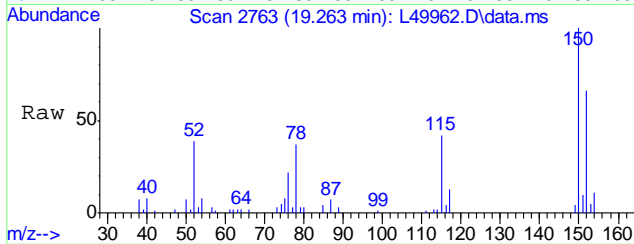
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm

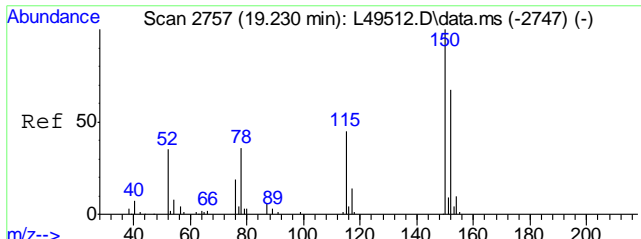
Tgt Ion	Resp	Lower	Upper
152	100		
115	64.9	48.8	88.8
150	156.6	174.3	214.3#



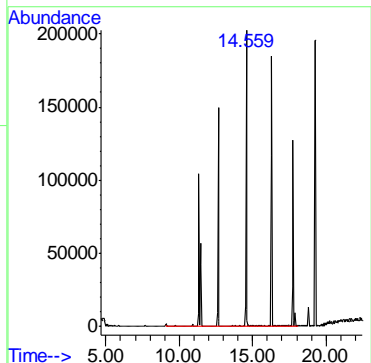
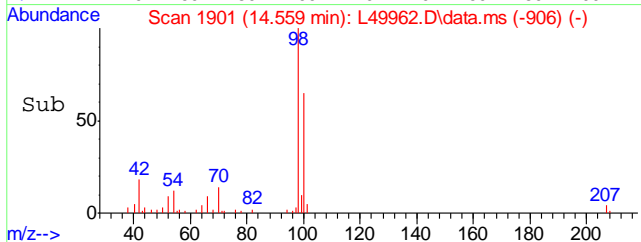
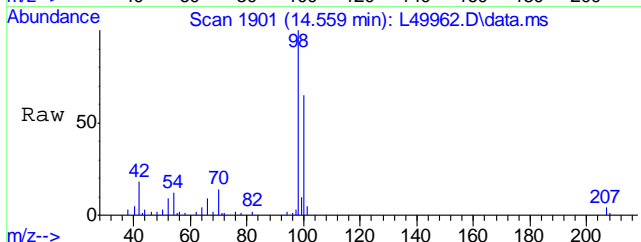
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49962.D
 Acq: 11 Jul 2016 9:13 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	64.9	41.6	81.6
150	156.6	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 57.02 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49962.D
Acq: 11 Jul 2016 9:13 pm
Tgt Ion:TIC Resp:20775324



6.1.14
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61920.D
 Acq On : 18 Jul 2016 8:16 pm
 Operator : johannat
 Sample : C46435-10R
 Misc : MS1912,VM1861,5.38,,20,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 02 10:12:50 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.341	168	195289	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.671	114	284799	20.00	ppb	0.00
55) Chlorobenzene-d5	16.364	117	280012	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.351	152	171327	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.351	152	171327	20.00	ppb	0.00

System Monitoring Compounds

36) Dibromofluoromethane	11.457	111	82385	17.78	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	88.90%		
56) Toluene-d8	14.602	98	338641	19.84	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	99.20%		
74) 4-Bromofluorobenzene	17.863	95	154717	21.82	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	109.10%		

Target Compounds

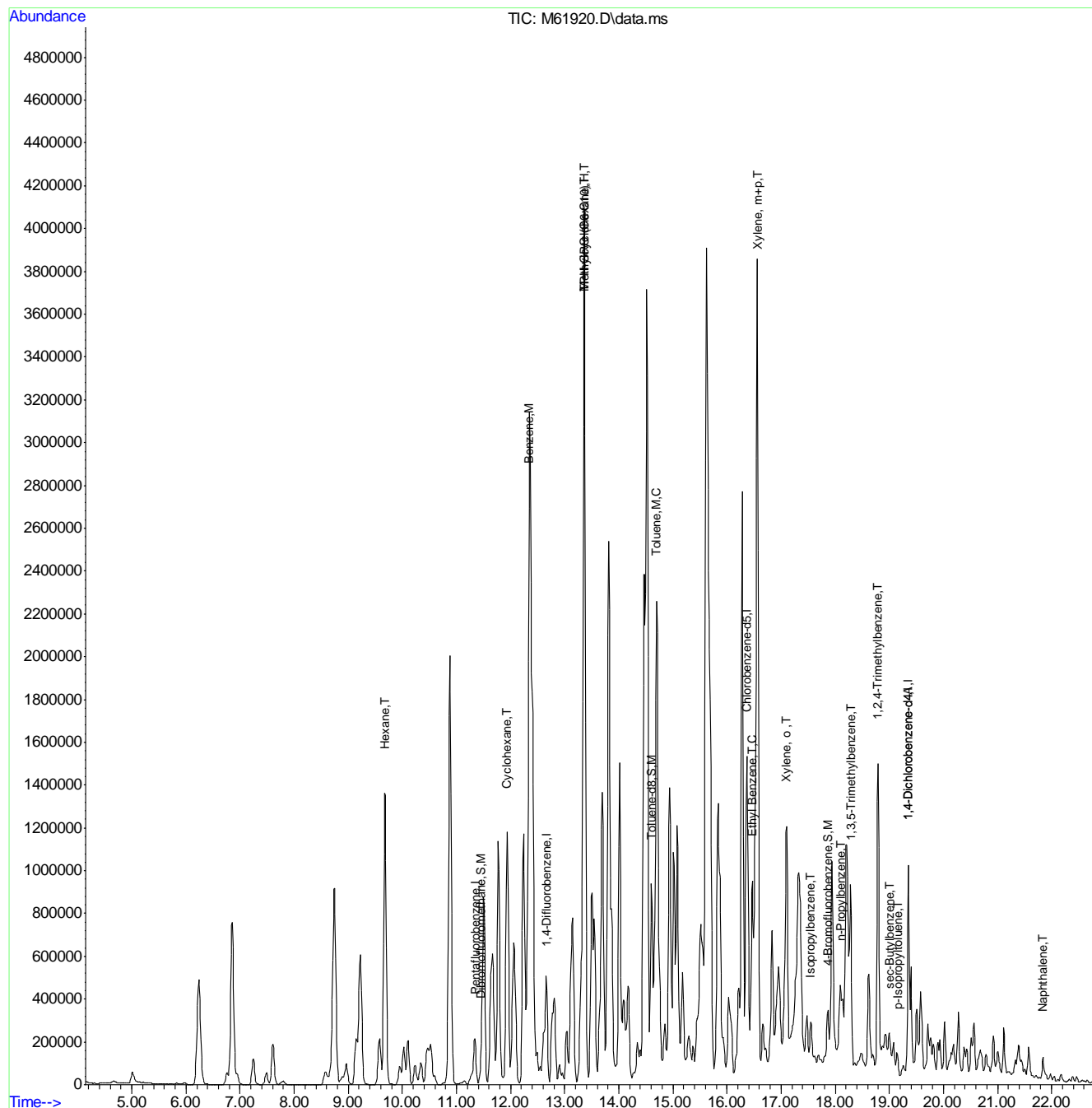
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
24) Hexane	9.674	57	1091196	125.64	ppb	99
38) Cyclohexane	11.932	56	902318	84.00	ppb	93
45) Benzene	12.344	78	88845	3.90	ppb	100
48) Methylcyclohexane	13.357	55	2264077	246.67	ppb	93
57) Toluene	14.697	92	517952	38.32	ppb	99
67) Ethyl Benzene	16.470	91	722750	28.41	ppb	98
68) Xylene, m+p	16.565	106	1254021	130.42	ppb	91
69) Xylene, o	17.103	106	409536	41.98	ppb	94
73) Isopropylbenzene	17.546	105	205553	8.37	ppb	100
79) n-Propylbenzene	18.095	91	347776	10.51	ppb	98
81) 1,3,5-Trimethylbenzene	18.285	105	369088	16.49	ppb	83
86) 1,2,4-Trimethylbenzene	18.792	105	1120672	48.06	ppb	92
87) sec-Butylbenzene	19.003	105	39575	1.36	ppb	99
88) p-Isopropyltoluene	19.150	119	48735	2.01	ppb	98
97) Naphthalene	21.841	128	107566	5.22	ppb	100
100) TPH-GRO (C6-C10)	13.357	TIC	243485523m	6745.57	ppb	

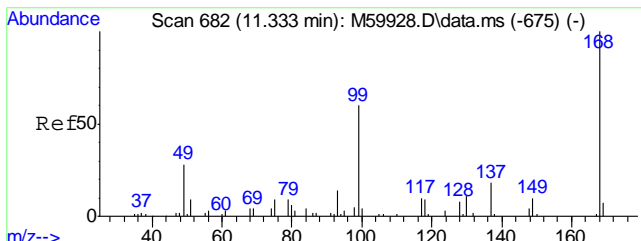
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

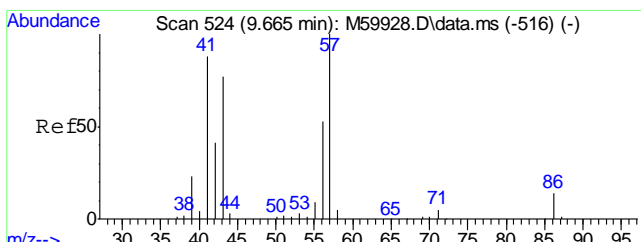
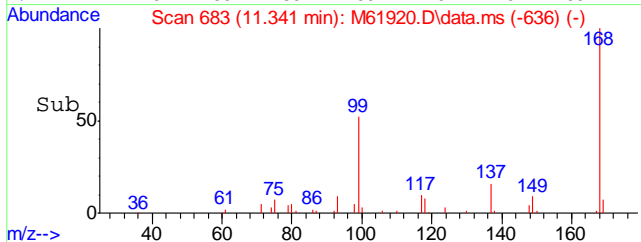
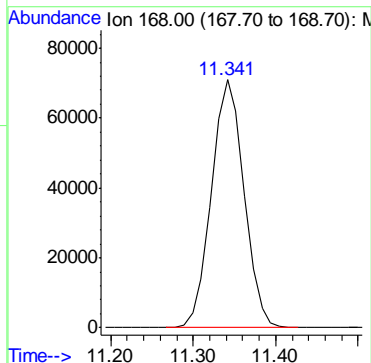
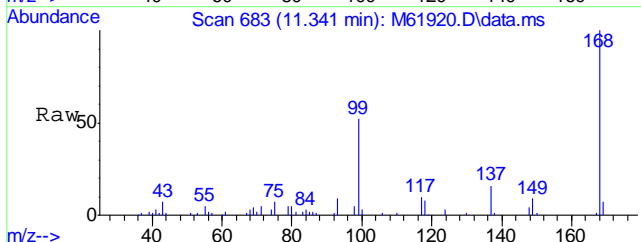
Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61920.D
 Acq On : 18 Jul 2016 8:16 pm
 Operator : johannat
 Sample : C46435-10R
 Misc : MS1912,VM1861,5.38,,20,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 02 10:12:50 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

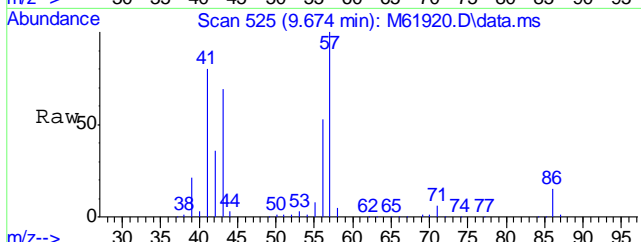




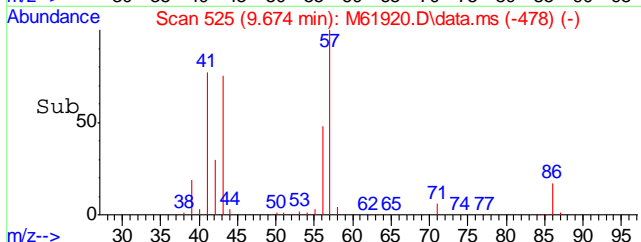
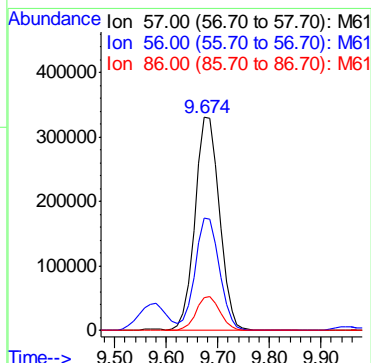
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.341 min Scan# 683
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion:168 Resp: 195289

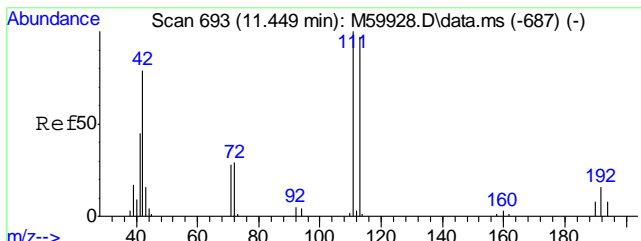


#24
 Hexane
 Concen: 125.64 ppb
 RT: 9.674 min Scan# 525
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion: 57 Resp: 1091196



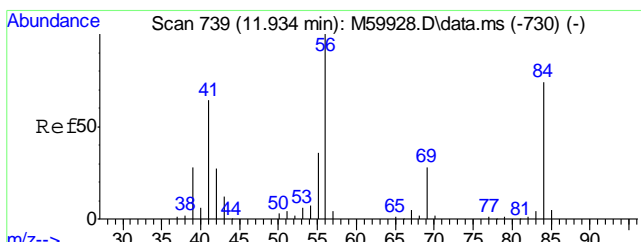
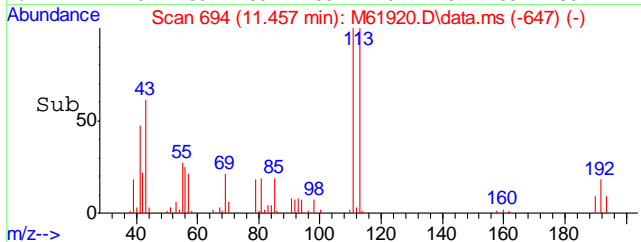
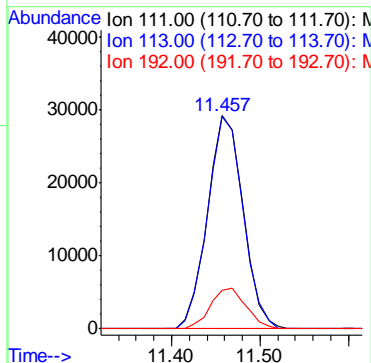
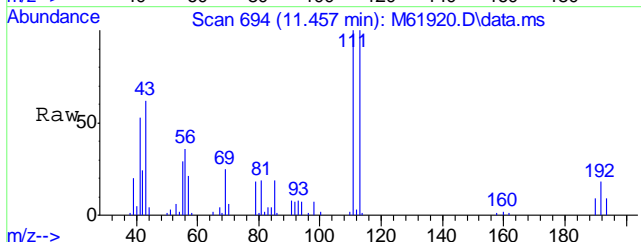
Ion	Ratio	Lower	Upper
57	100		
56	52.5	32.9	72.9
86	15.6	0.0	34.1





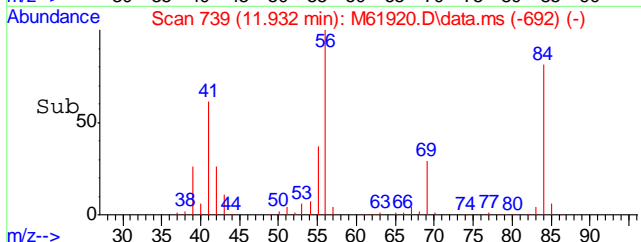
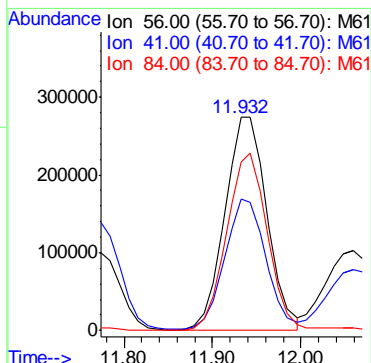
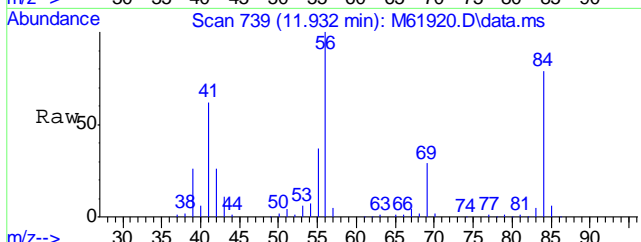
#36
 Dibromofluoromethane
 Concen: 17.78 ppb
 RT: 11.457 min Scan# 694
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

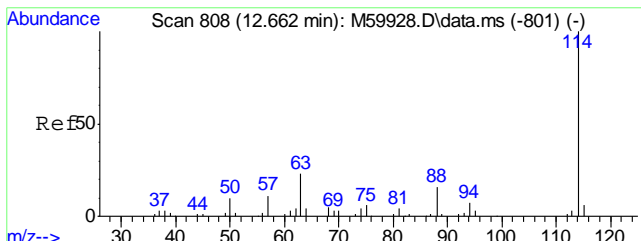
Tgt Ion	Resp	Lower	Upper
111	82385		
113	98.9	77.7	117.7
192	19.1	0.0	36.3



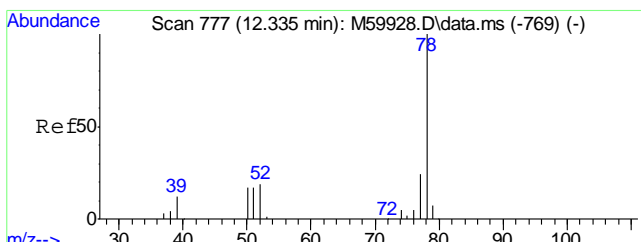
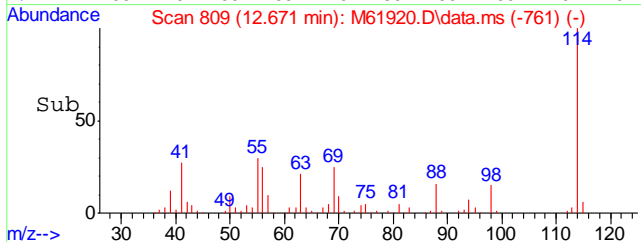
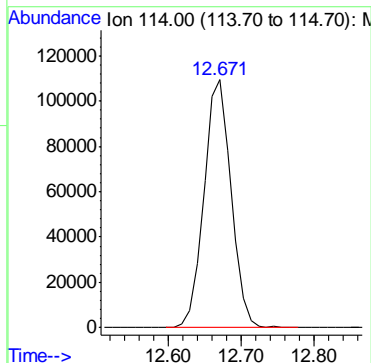
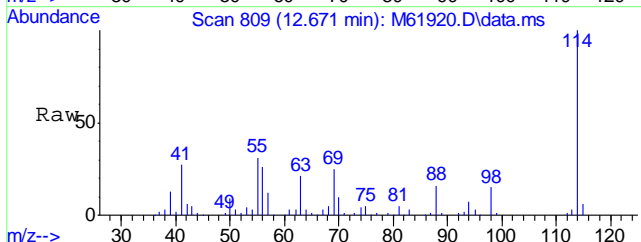
#38
 Cyclohexane
 Concen: 84.00 ppb
 RT: 11.932 min Scan# 739
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

Tgt Ion	Resp	Lower	Upper
56	902318		
41	59.2	46.3	86.3
84	81.0	56.0	96.0

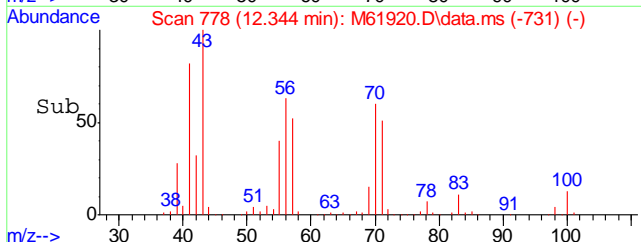
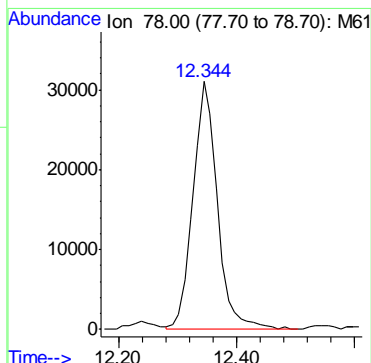
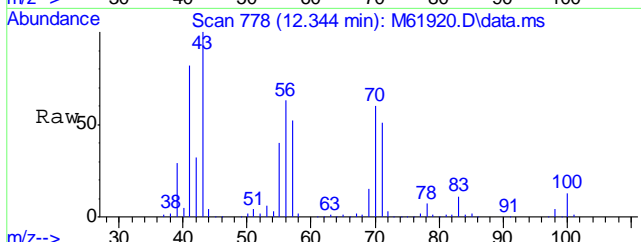


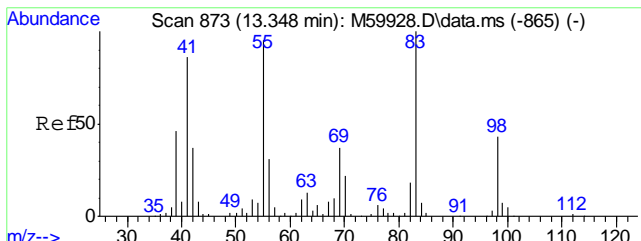


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.671 min Scan# 809
 Delta R.T. 0.009 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion:114 Resp: 284799



#45
 Benzene
 Concen: 3.90 ppb
 RT: 12.344 min Scan# 778
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion: 78 Resp: 88845

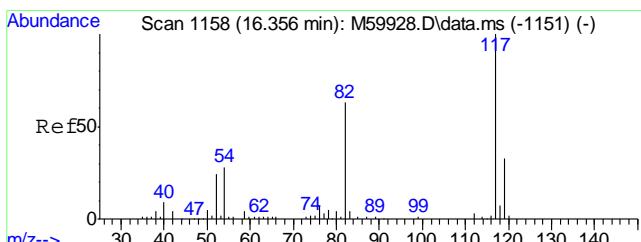
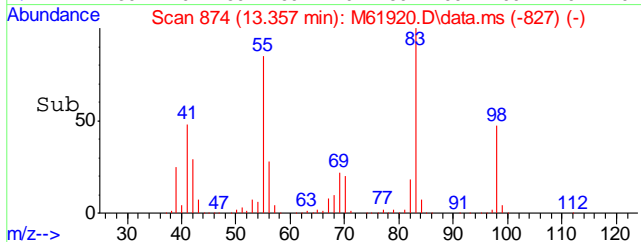
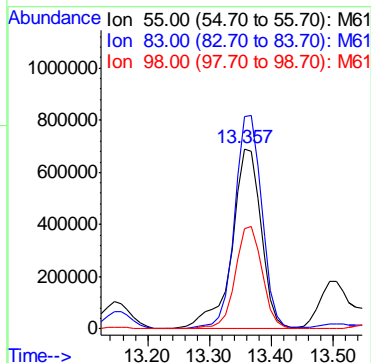
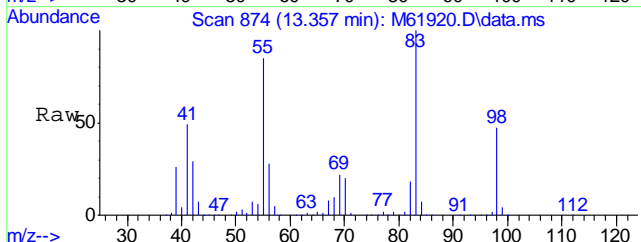




#48
Methylcyclohexane
Concen: 246.67 ppb
RT: 13.357 min Scan# 874
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

Tgt Ion: 55 Resp: 2264077

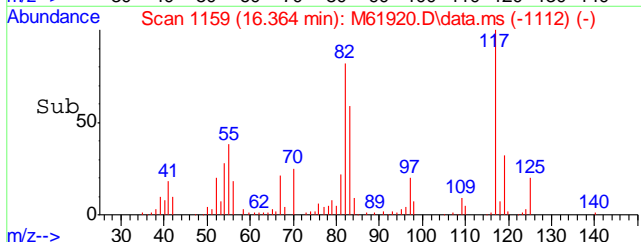
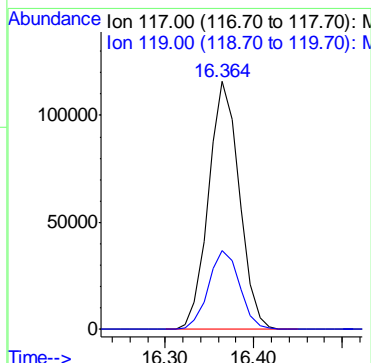
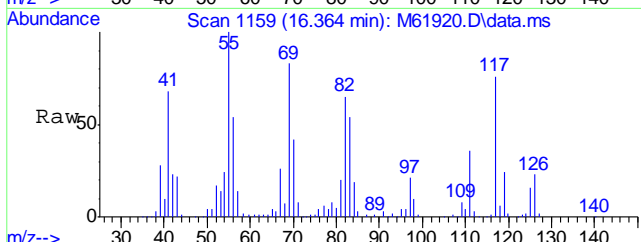
Ion	Ratio	Lower	Upper
55	100		
83	110.3	84.5	124.5
98	52.7	27.0	67.0

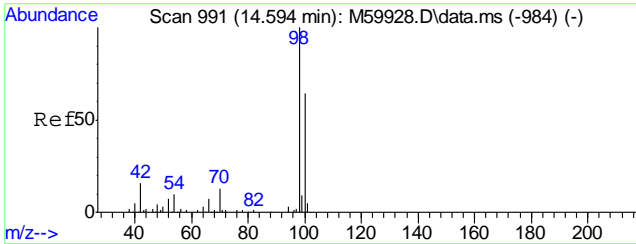


#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.364 min Scan# 1159
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

Tgt Ion: 117 Resp: 280012

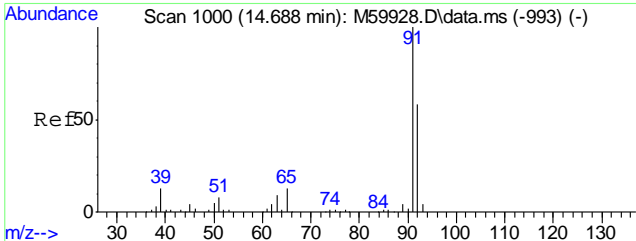
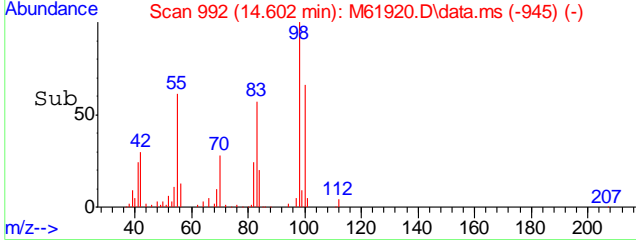
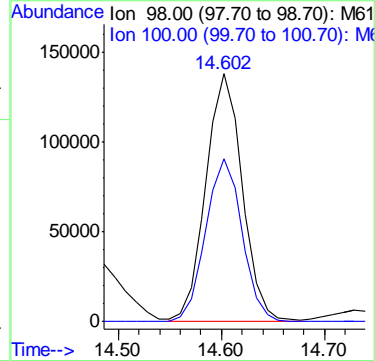
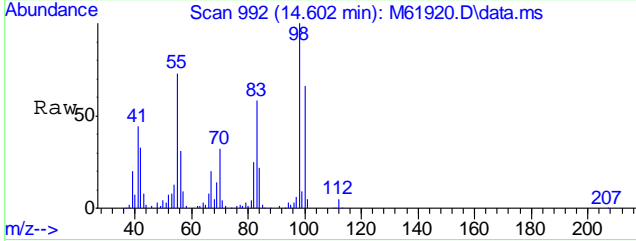
Ion	Ratio	Lower	Upper
117	100		
119	32.2	11.2	51.2





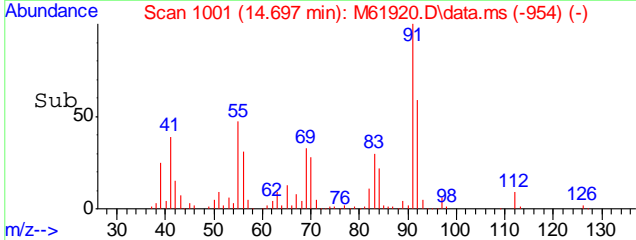
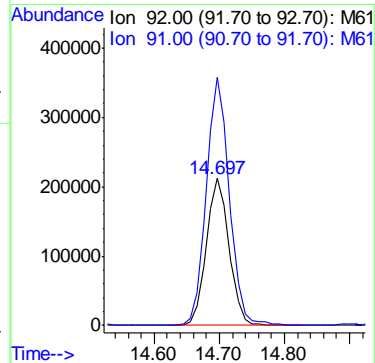
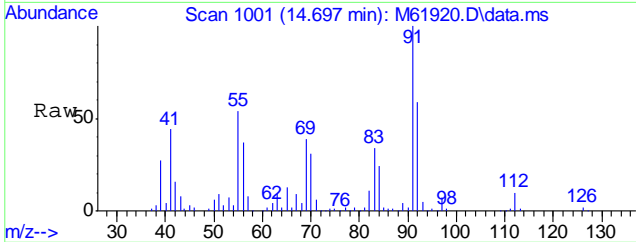
#56
Toluene-d8
Concen: 19.84 ppb
RT: 14.602 min Scan# 992
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

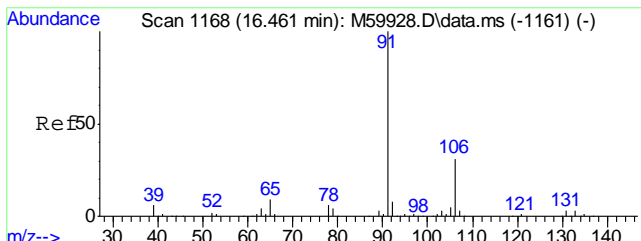
Tgt Ion: 98 Resp: 338641
Ion Ratio Lower Upper
98 100
100 65.5 44.3 84.3



#57
Toluene
Concen: 38.32 ppb
RT: 14.697 min Scan# 1001
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

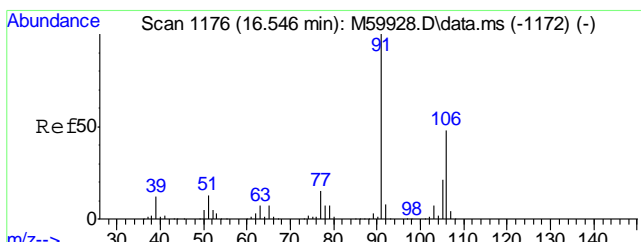
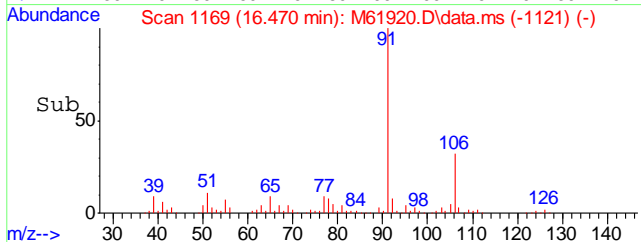
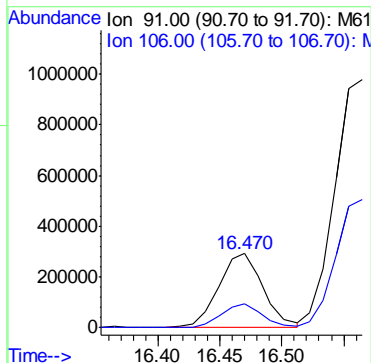
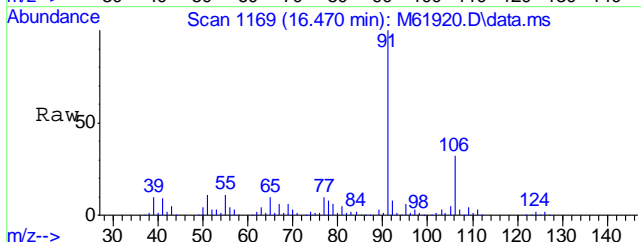
Tgt Ion: 92 Resp: 517952
Ion Ratio Lower Upper
92 100
91 172.1 150.5 190.5





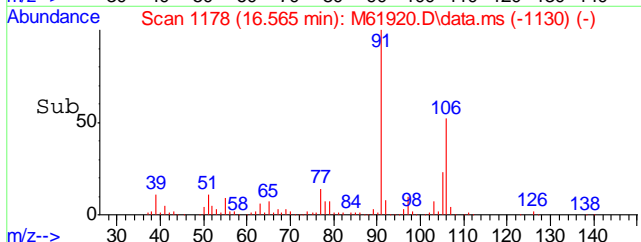
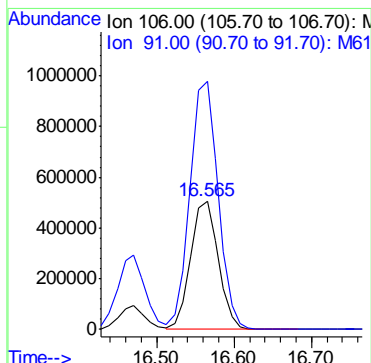
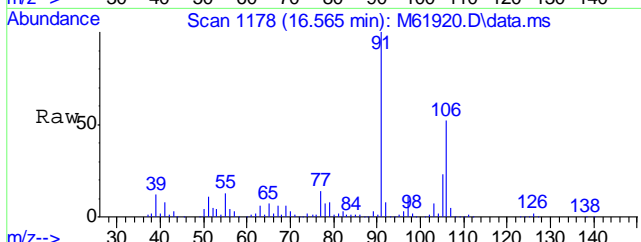
#67
Ethyl Benzene
Concen: 28.41 ppb
RT: 16.470 min Scan# 1169
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

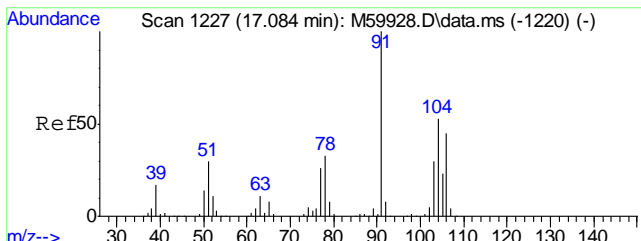
Tgt Ion	Resp	Lower	Upper
91	722750	100	
106	31.0	10.2	50.2



#68
Xylene, m+p
Concen: 130.42 ppb
RT: 16.565 min Scan# 1178
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

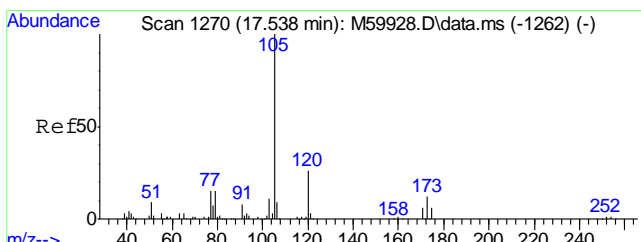
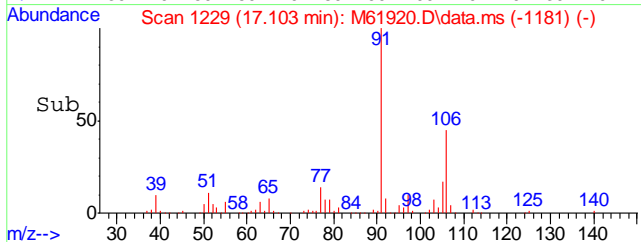
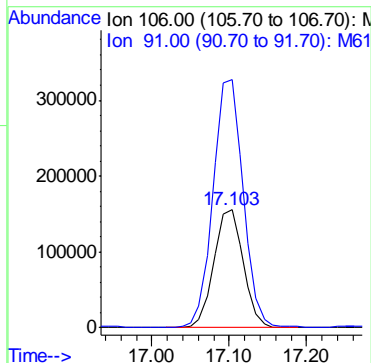
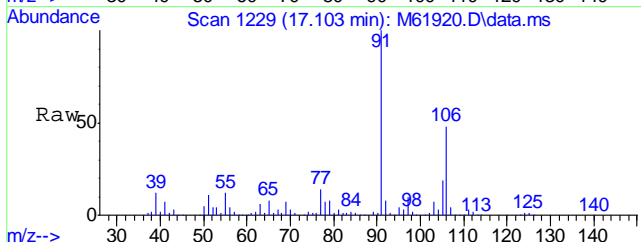
Tgt Ion	Resp	Lower	Upper
106	1254021	100	
91	196.7	191.5	231.5





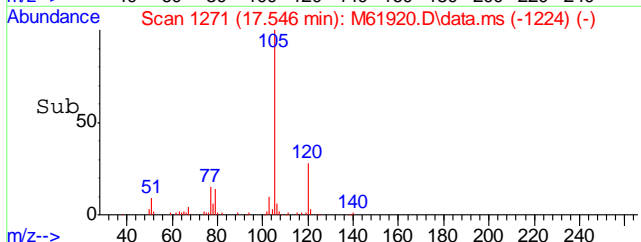
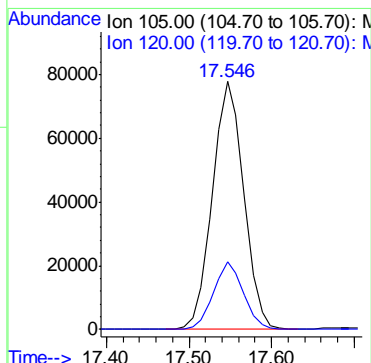
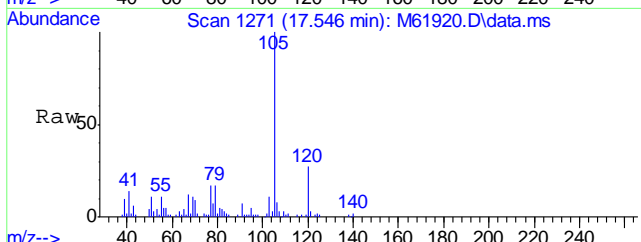
#69
Xylene, o
Concen: 41.98 ppb
RT: 17.103 min Scan# 1229
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

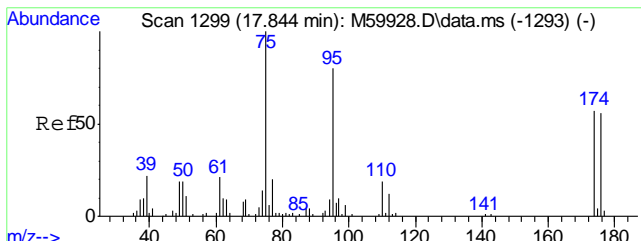
Tgt Ion	Resp	Lower	Upper
106	100		
91	213.9	203.2	243.2



#73
Isopropylbenzene
Concen: 8.37 ppb
RT: 17.546 min Scan# 1271
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

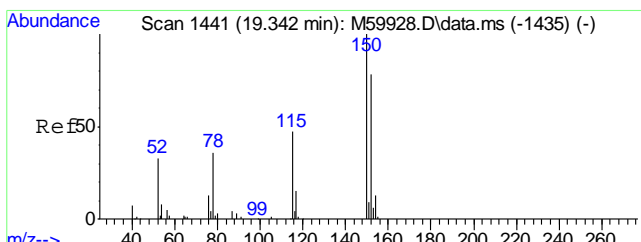
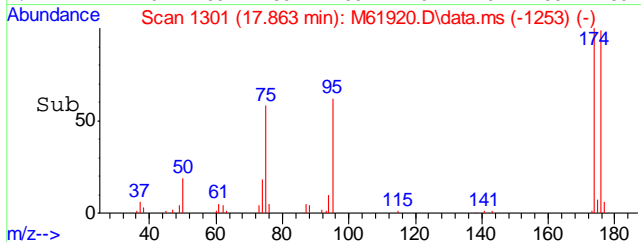
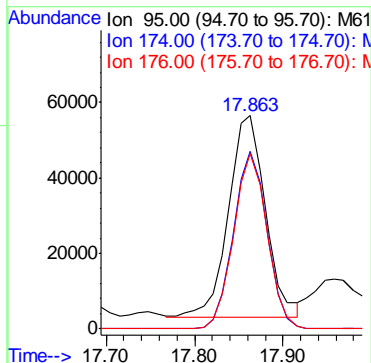
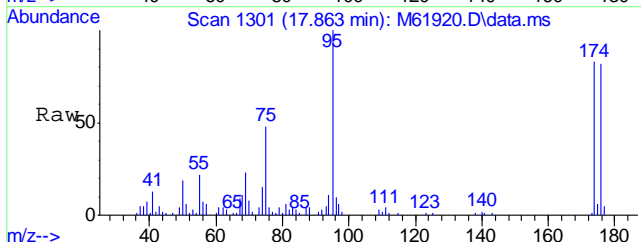
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.9	5.7	45.7





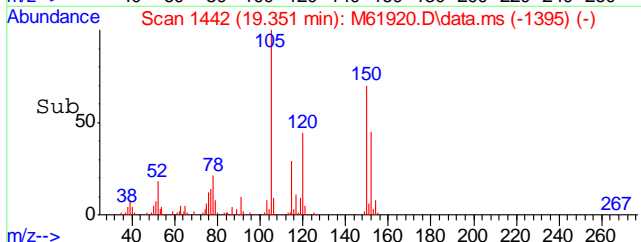
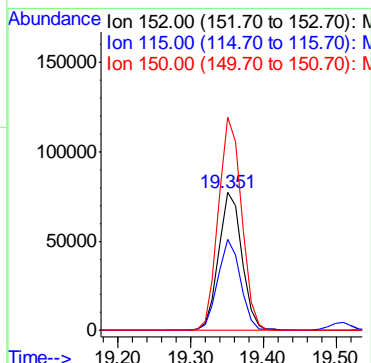
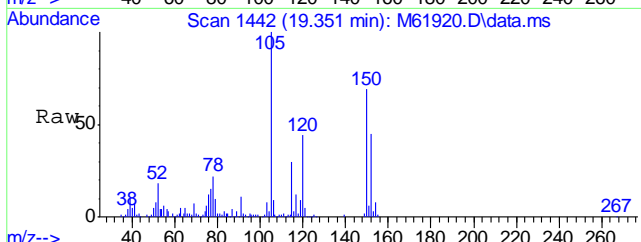
#74
4-Bromofluorobenzene
Concen: 21.82 ppb
RT: 17.863 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

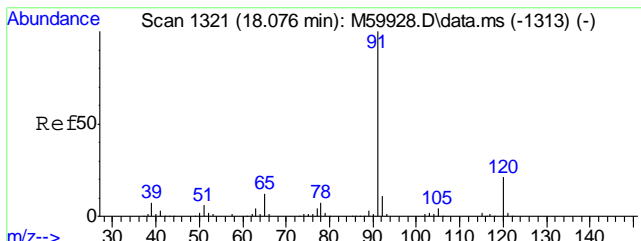
Tgt Ion	Resp	Lower	Upper
95	154717	100	
174	80.3	54.3	94.3
176	78.9	51.5	91.5



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.351 min Scan# 1442
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

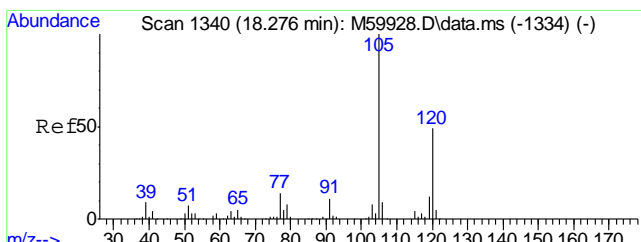
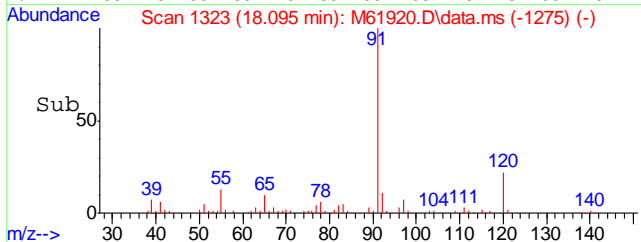
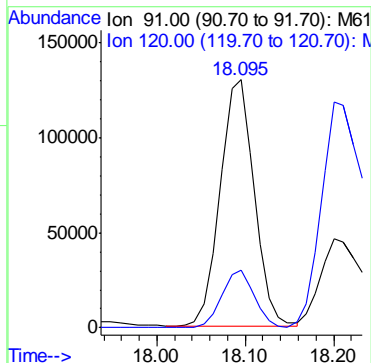
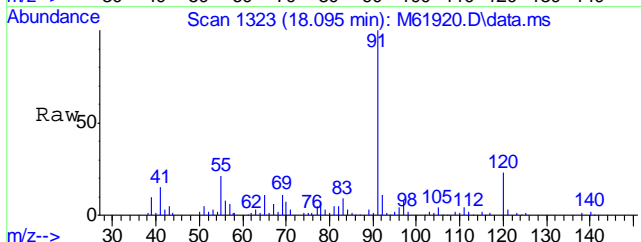
Tgt Ion	Resp	Lower	Upper
152	171327	100	
115	64.5	40.9	80.9
150	152.0	178.6	218.6#





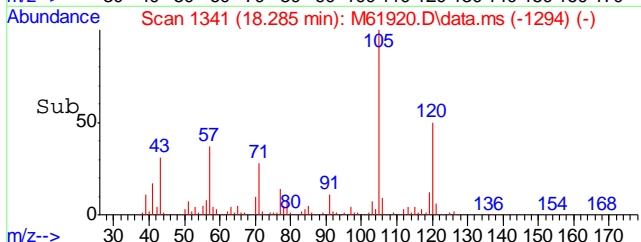
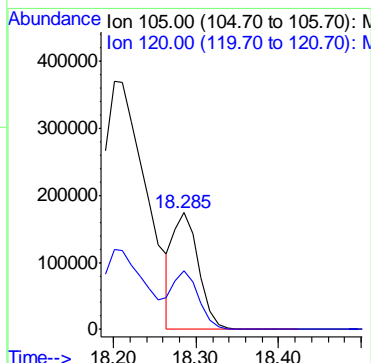
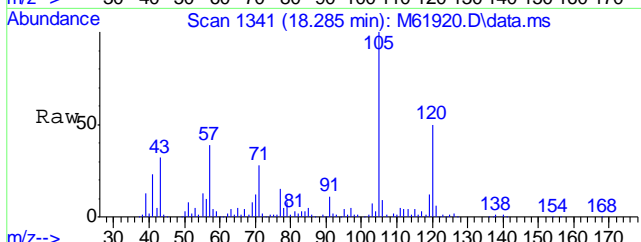
#79
 n-Propylbenzene
 Concen: 10.51 ppb
 RT: 18.095 min Scan# 1323
 Delta R.T. 0.009 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

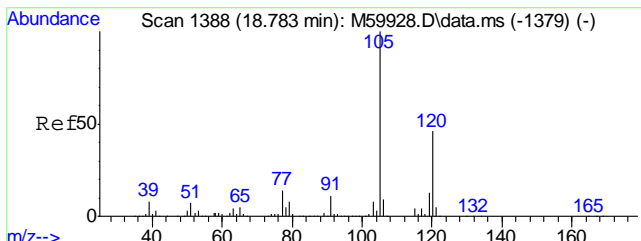
Tgt Ion	Resp	Lower	Upper
91	347776	100	
120	22.4	1.3	41.3



#81
 1,3,5-Trimethylbenzene
 Concen: 16.49 ppb
 RT: 18.285 min Scan# 1341
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

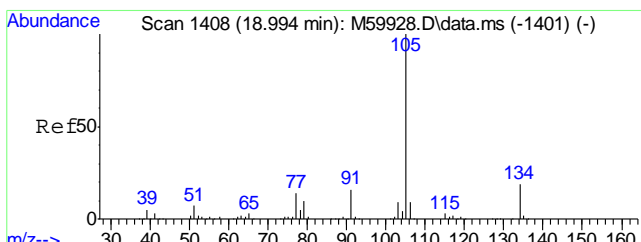
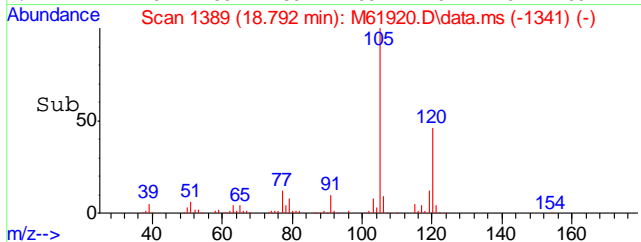
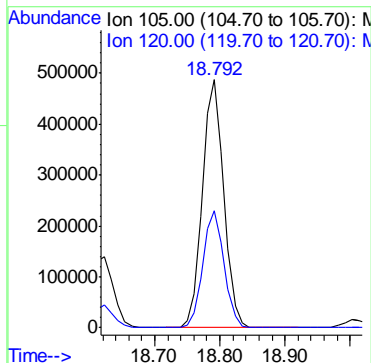
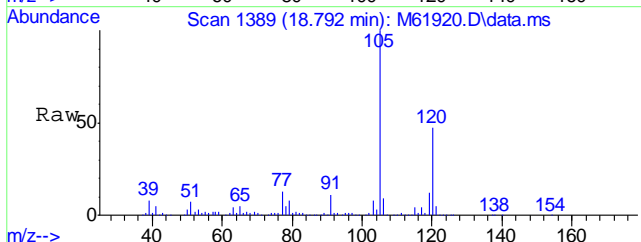
Tgt Ion	Resp	Lower	Upper
105	369088	100	
120	57.6	26.6	66.6





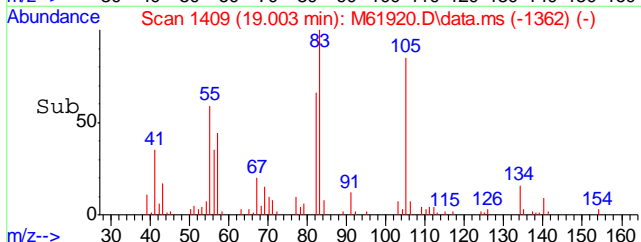
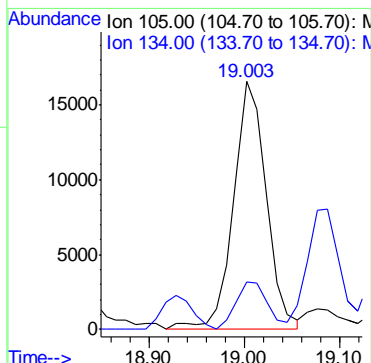
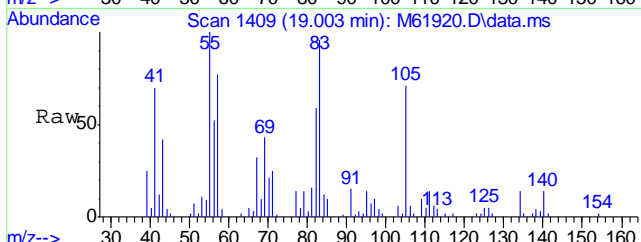
#86
1,2,4-Trimethylbenzene
Concen: 48.06 ppb
RT: 18.792 min Scan# 1389
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

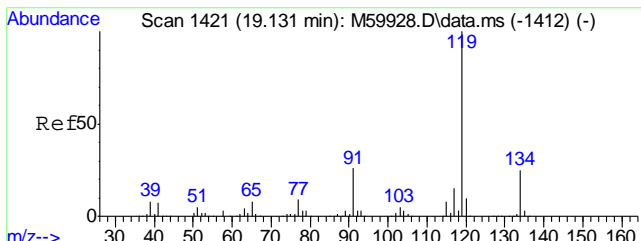
Tgt Ion:105 Resp: 1120672
Ion Ratio Lower Upper
105 100
120 46.6 32.4 72.4



#87
sec-Butylbenzene
Concen: 1.36 ppb
RT: 19.003 min Scan# 1409
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

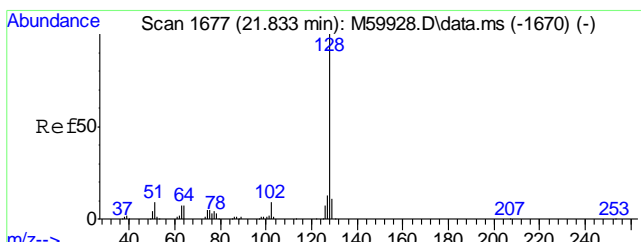
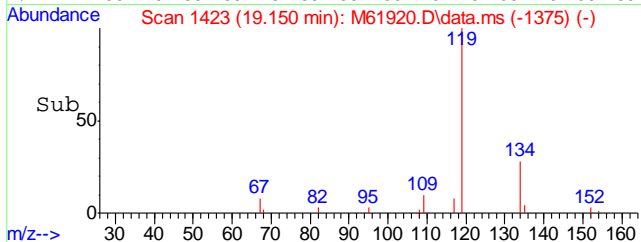
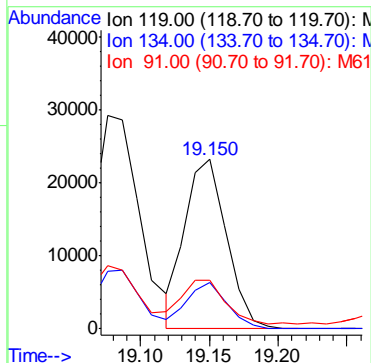
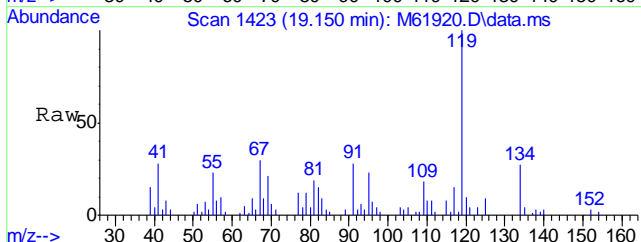
Tgt Ion:105 Resp: 39575
Ion Ratio Lower Upper
105 100
134 18.9 0.0 38.7





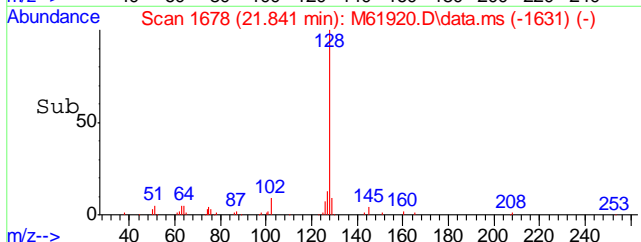
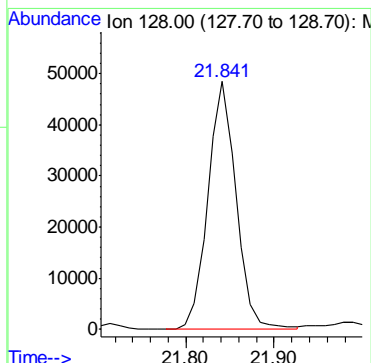
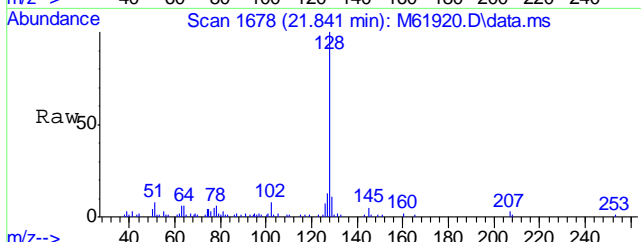
#88
 p-Isopropyltoluene
 Concen: 2.01 ppb
 RT: 19.150 min Scan# 1423
 Delta R.T. 0.009 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

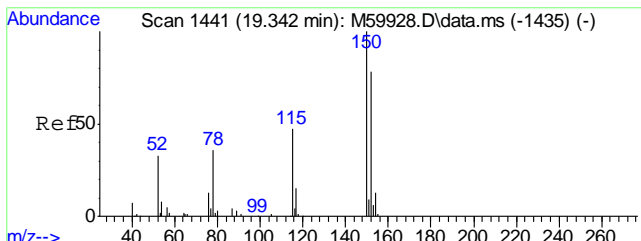
Tgt Ion	Resp	Lower	Upper
119	48735	100	
134	26.5	6.0	46.0
91	27.7	6.0	46.0



#97
 Naphthalene
 Concen: 5.22 ppb
 RT: 21.841 min Scan# 1678
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

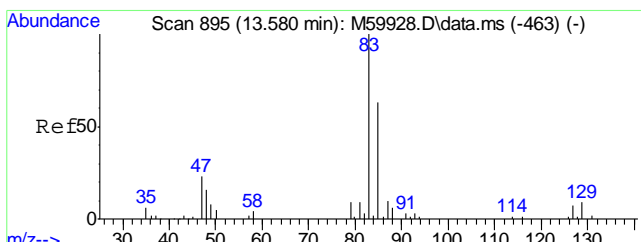
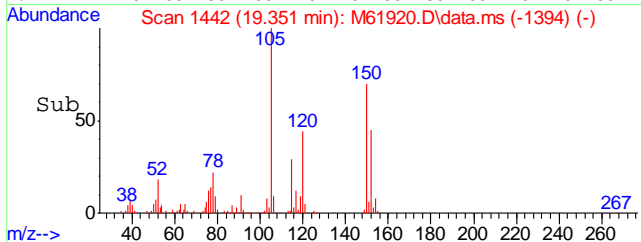
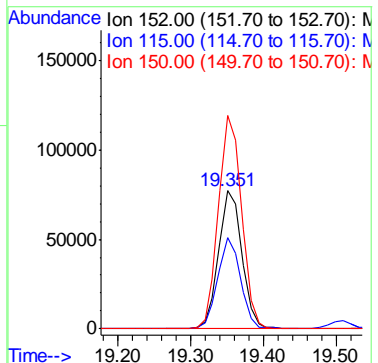
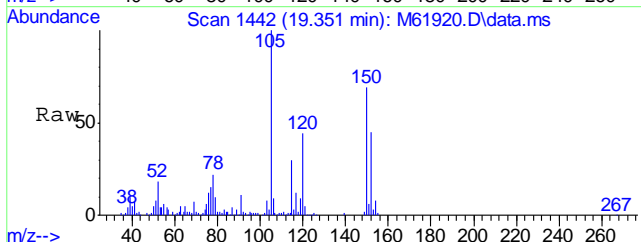
Tgt Ion:128 Resp: 107566





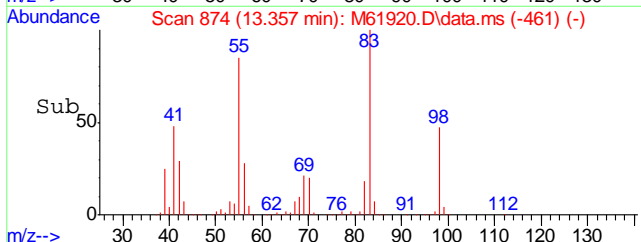
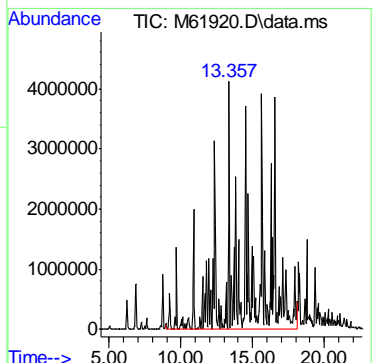
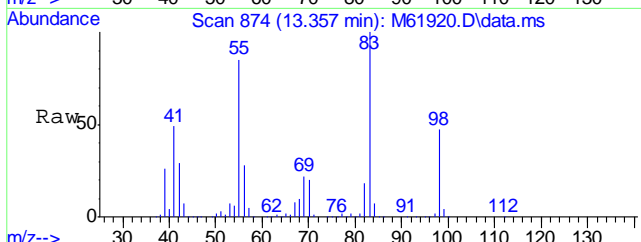
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.351 min Scan# 1442
 Delta R.T. 0.009 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

Tgt Ion:152 Resp: 171327
 Ion Ratio Lower Upper
 152 100
 115 64.5 37.3 77.3
 150 152.0 176.0 216.0#



#100
 TPH-GRO (C6-C10)
 Concen: 6745.57 ppb m
 RT: 13.357 min Scan# 874
 Delta R.T. -0.193 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

Tgt Ion:TIC Resp:243485523



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
Data File : M61920.D
Acq On : 18 Jul 2016 8:16 pm
Operator : johannat
Sample : C46435-10R
Misc : MS1912,VM1861,5.38,,20,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 02 10:12:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
Quant Title : EPA 8260B
QLast Update : Mon Jul 18 09:14:24 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafuorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, 1,4-Dichlorobenzene-d4A.

Table with 7 columns: System Monitoring Compounds, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Dibromofluoromethane, Toluene-d8, 4-Bromofluorobenzene with Spiked Amount and Recovery percentages.

Table with 7 columns: Target Compounds, R.T., QIon, Response, Conc, Units, Qvalue. Rows include Hexane, Cyclohexane, Benzene, Methylcyclohexane, Toluene, Ethyl Benzene, Xylene, m+p, Xylene, o, Isopropylbenzene, n-Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, Naphthalene, TPH-GRO (C6-C10).

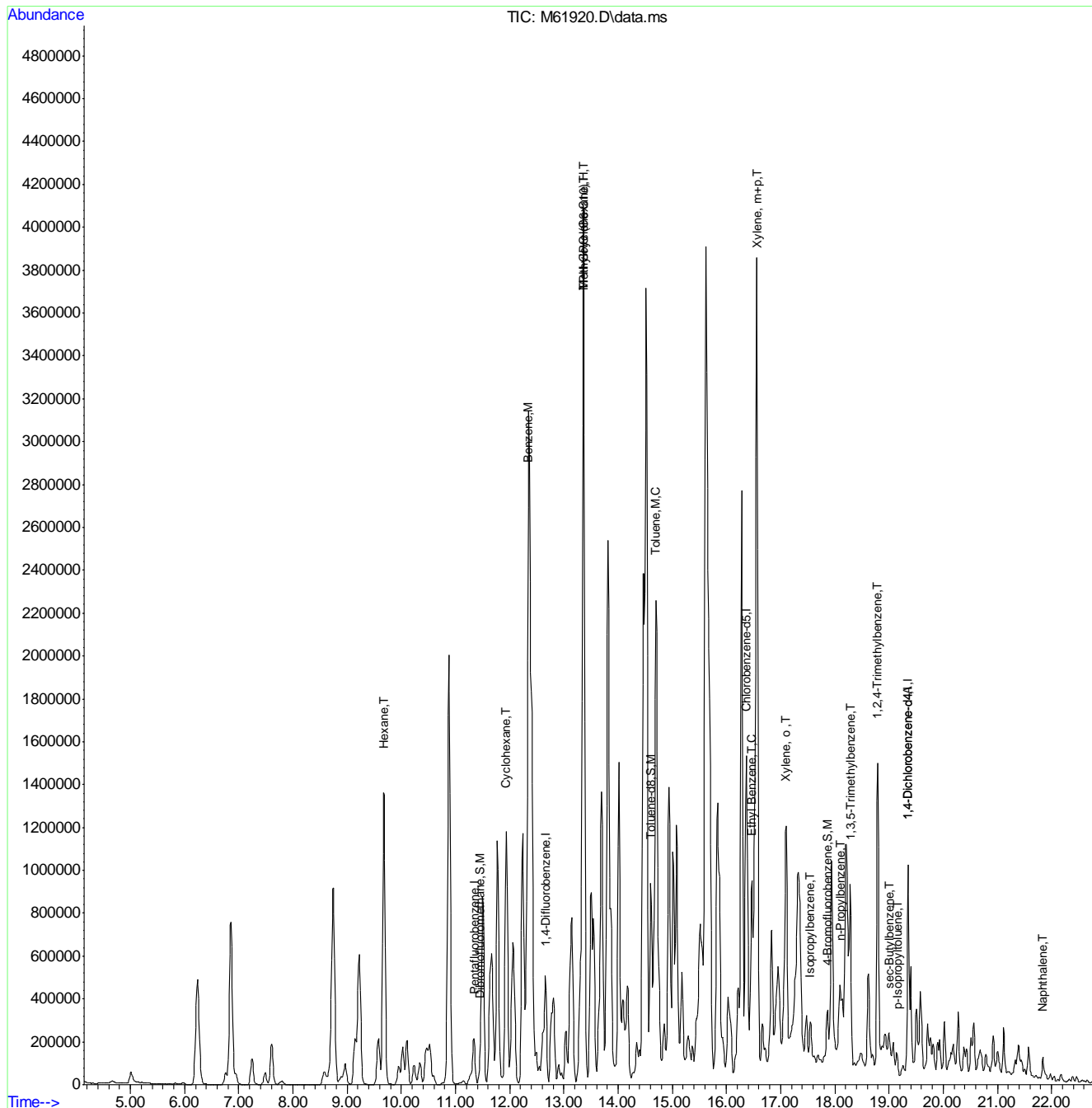
(#) = qualifier out of range (m) = manual integration (+) = signals summed

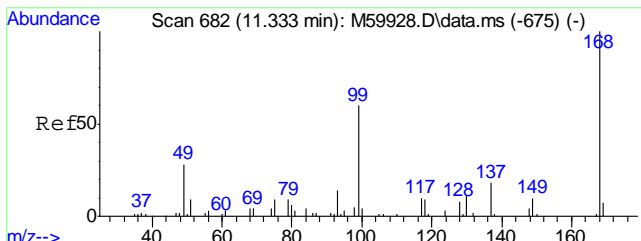
6.1.16
6

Quantitation Report (QT Reviewed)

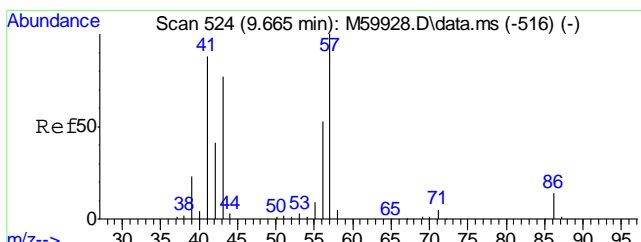
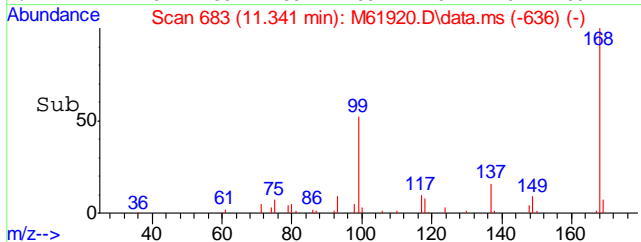
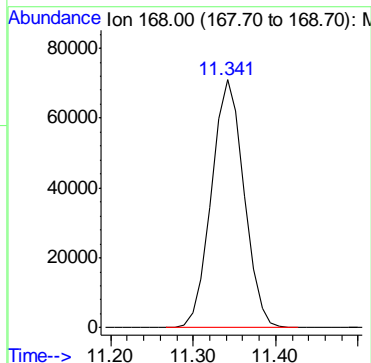
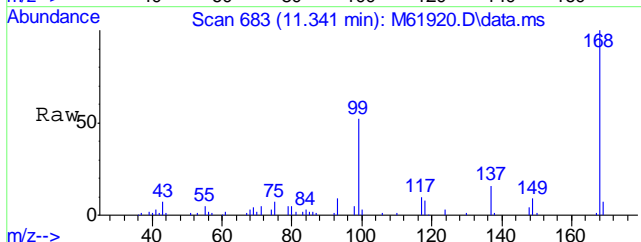
Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61920.D
 Acq On : 18 Jul 2016 8:16 pm
 Operator : johannat
 Sample : C46435-10R
 Misc : MS1912,VM1861,5.38,,20,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 02 10:12:50 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

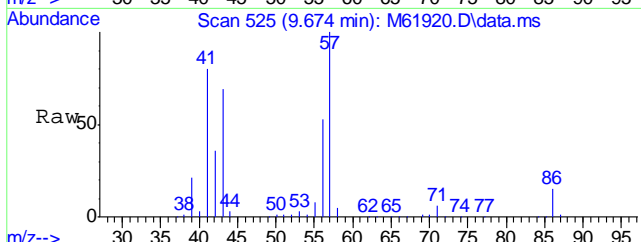




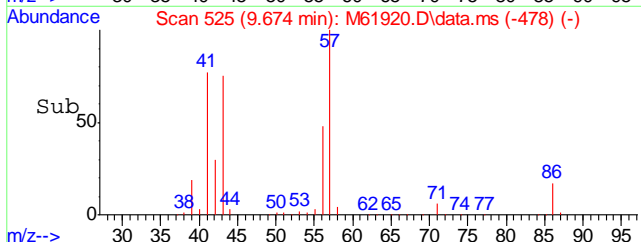
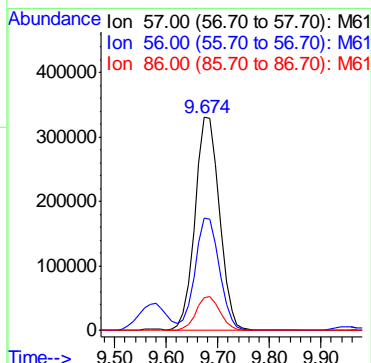
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.341 min Scan# 683
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion:168 Resp: 195289

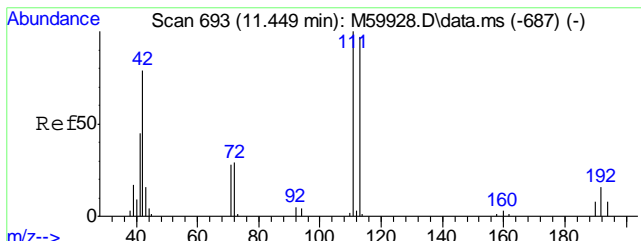


#24
 Hexane
 Concen: 125.64 ppb
 RT: 9.674 min Scan# 525
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion: 57 Resp: 1091196



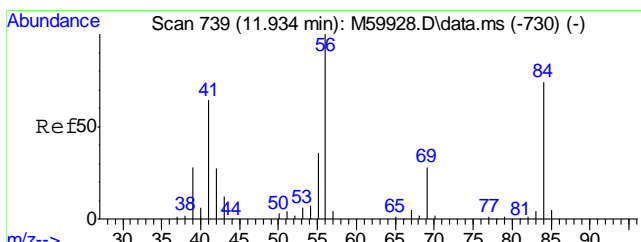
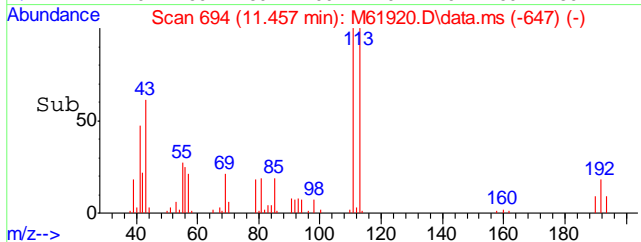
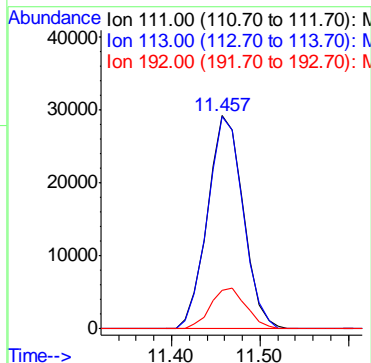
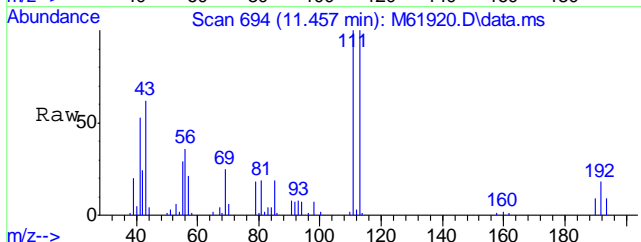
Ion	Ratio	Lower	Upper
57	100		
56	52.5	32.9	72.9
86	15.6	0.0	34.1





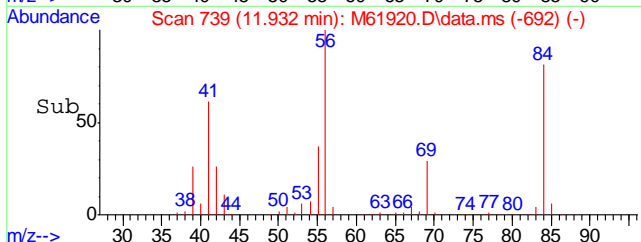
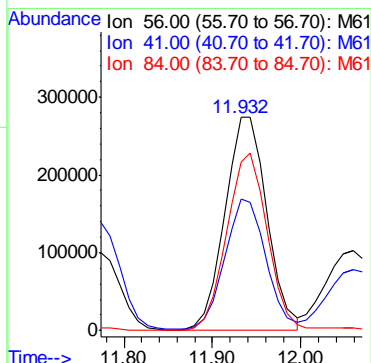
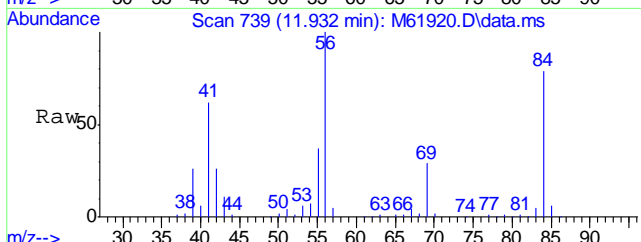
#36
 Dibromofluoromethane
 Concen: 17.78 ppb
 RT: 11.457 min Scan# 694
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

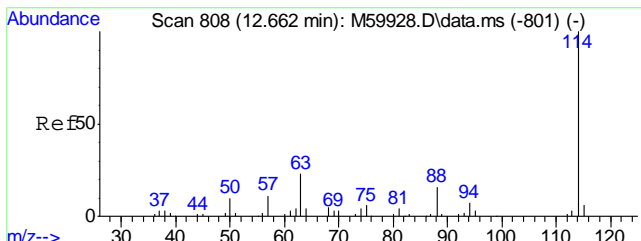
Tgt Ion	Resp	Lower	Upper
111	82385	100	
113	98.9	77.7	117.7
192	19.1	0.0	36.3



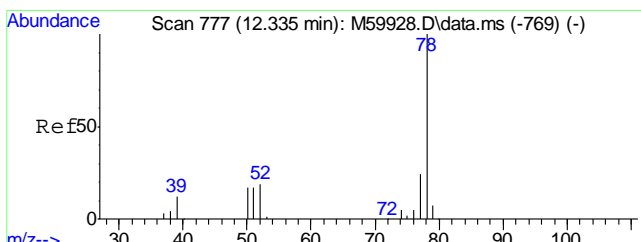
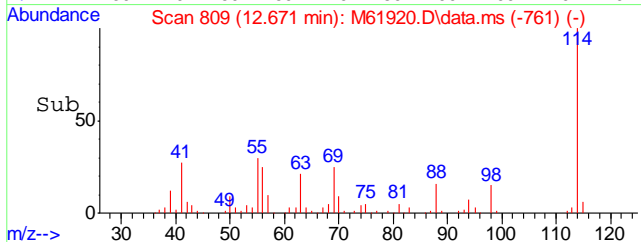
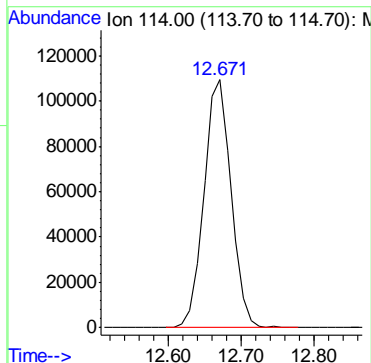
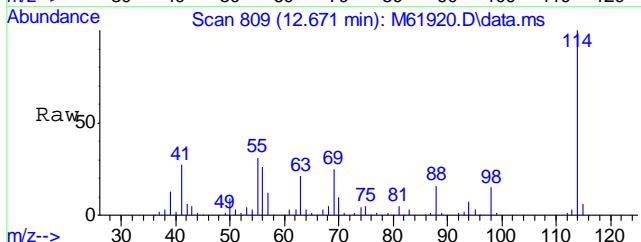
#38
 Cyclohexane
 Concen: 84.00 ppb
 RT: 11.932 min Scan# 739
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

Tgt Ion	Resp	Lower	Upper
56	902318	100	
41	59.2	46.3	86.3
84	81.0	56.0	96.0

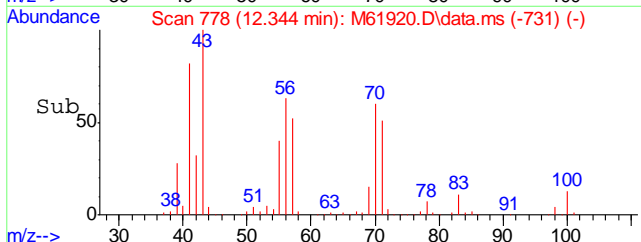
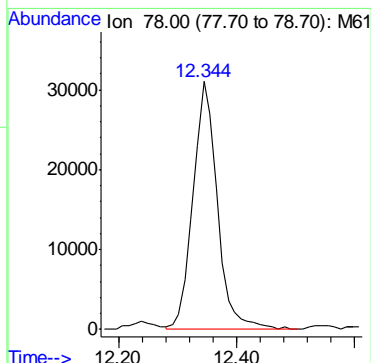
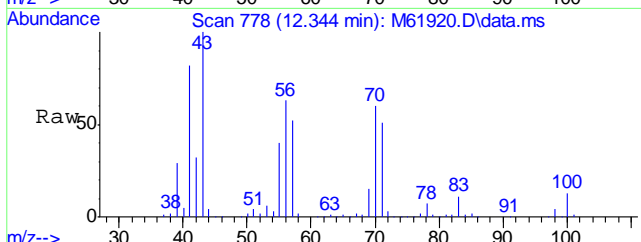


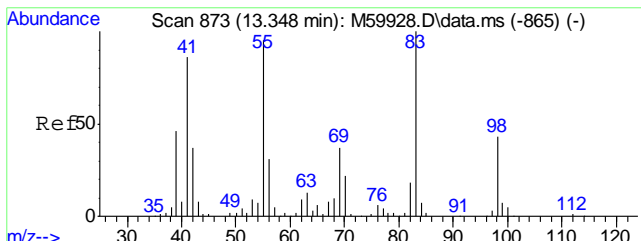


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.671 min Scan# 809
 Delta R.T. 0.009 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion:114 Resp: 284799



#45
 Benzene
 Concen: 3.90 ppb
 RT: 12.344 min Scan# 778
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm
 Tgt Ion: 78 Resp: 88845

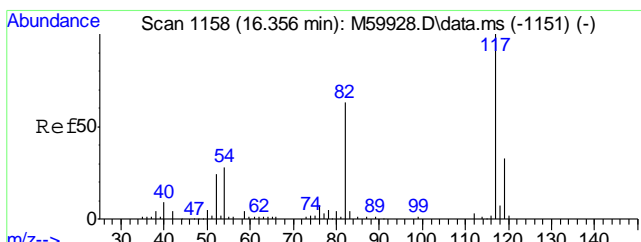
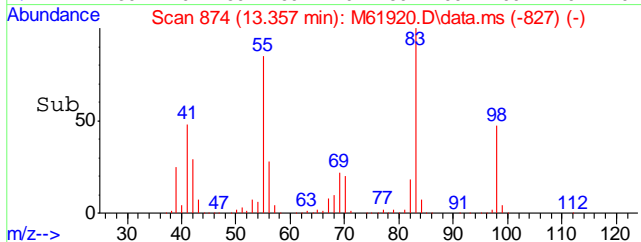
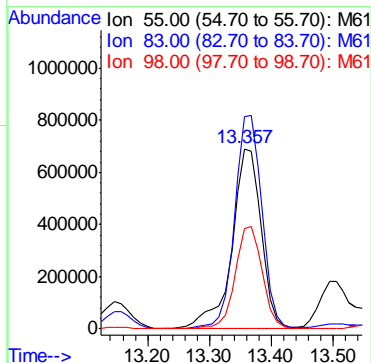
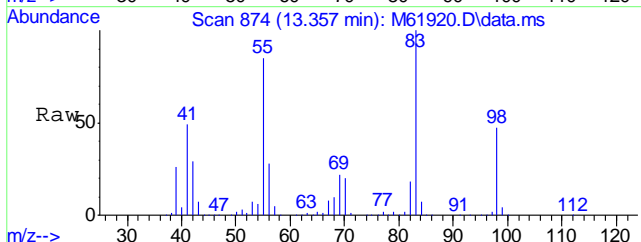




#48
Methylcyclohexane
Concen: 246.67 ppb
RT: 13.357 min Scan# 874
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

Tgt Ion: 55 Resp: 2264077

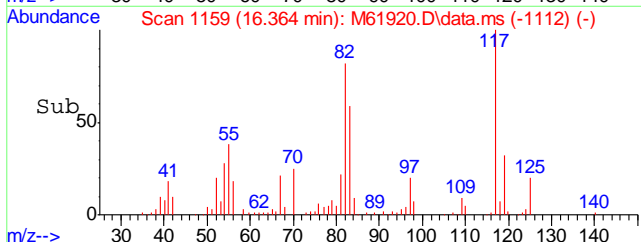
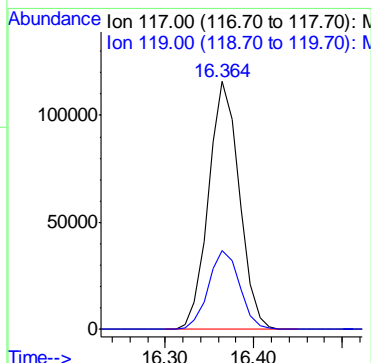
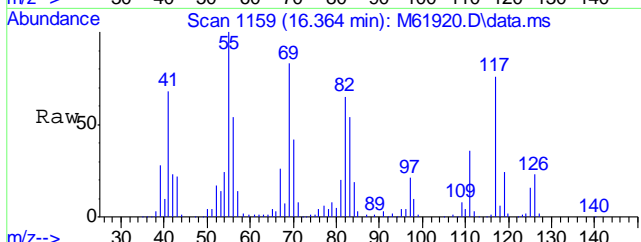
Ion	Ratio	Lower	Upper
55	100		
83	110.3	84.5	124.5
98	52.7	27.0	67.0

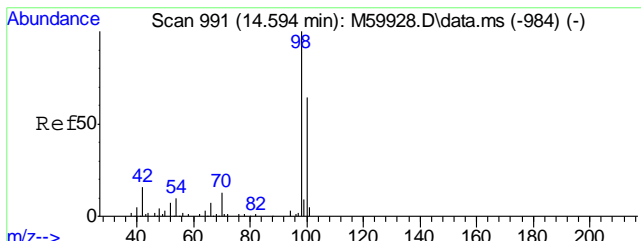


#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.364 min Scan# 1159
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

Tgt Ion: 117 Resp: 280012

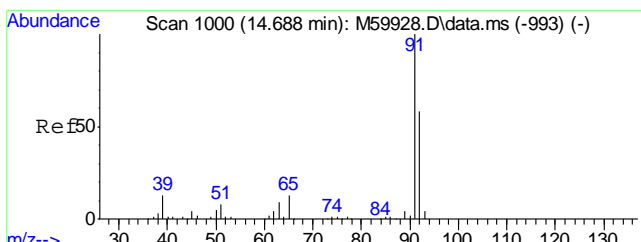
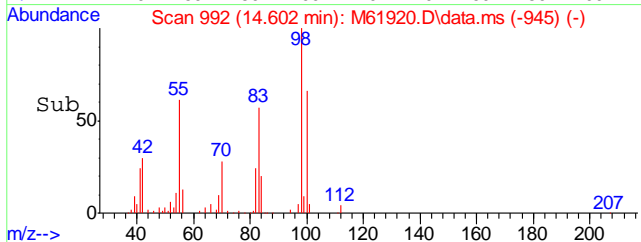
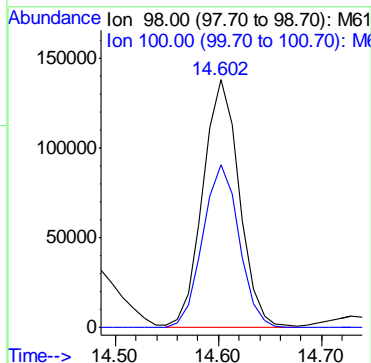
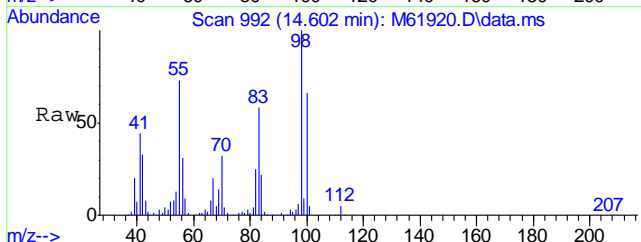
Ion	Ratio	Lower	Upper
117	100		
119	32.2	11.2	51.2





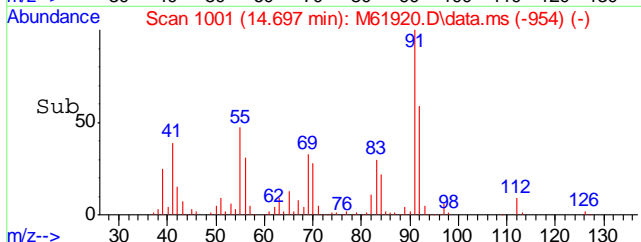
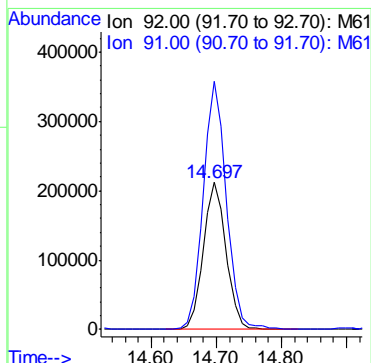
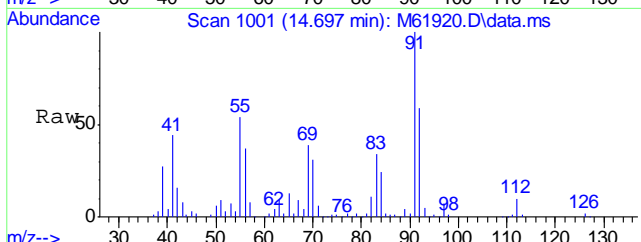
#56
Toluene-d8
Concen: 19.84 ppb
RT: 14.602 min Scan# 992
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

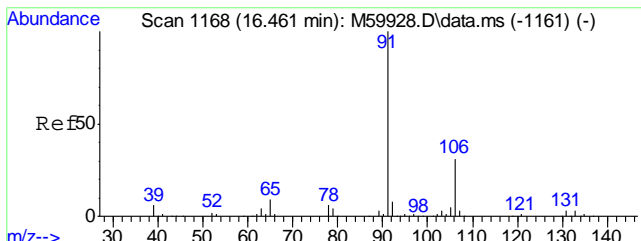
Tgt Ion	Resp	Lower	Upper
98	338641	100	100
100	65.5	44.3	84.3



#57
Toluene
Concen: 38.32 ppb
RT: 14.697 min Scan# 1001
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

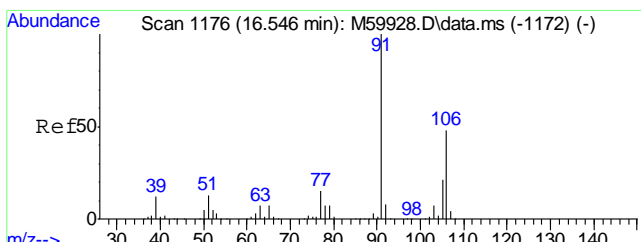
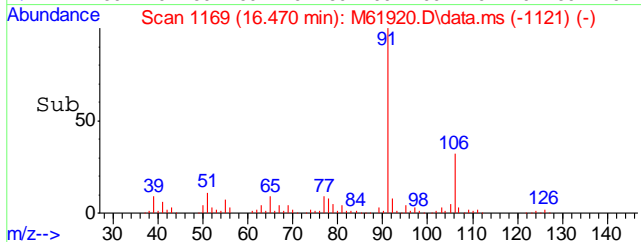
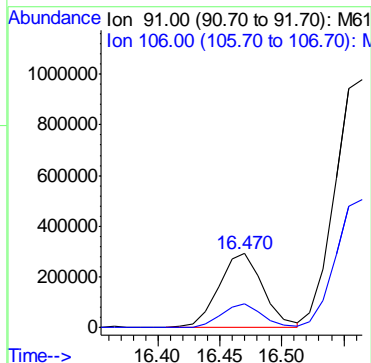
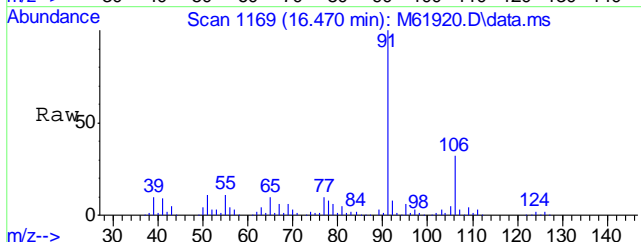
Tgt Ion	Resp	Lower	Upper
92	517952	100	100
91	172.1	150.5	190.5





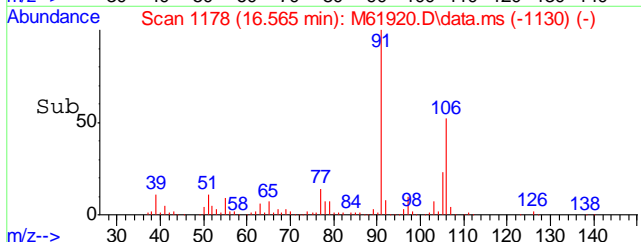
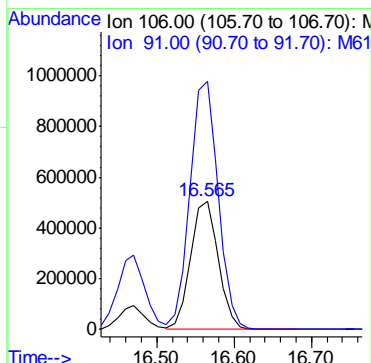
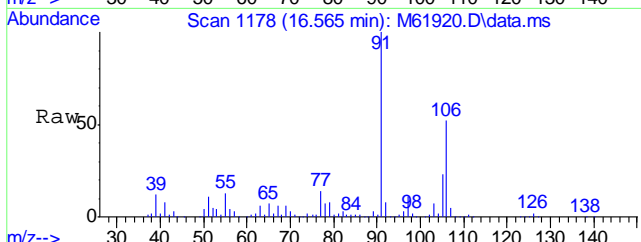
#67
Ethyl Benzene
Concen: 28.41 ppb
RT: 16.470 min Scan# 1169
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

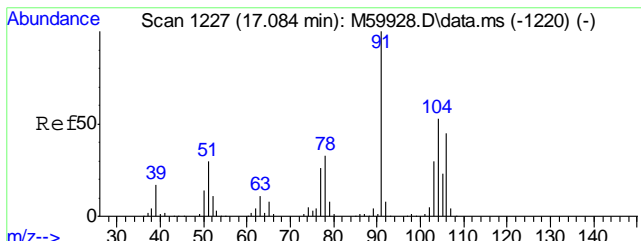
Tgt Ion	Resp	Lower	Upper
91	722750	100	
106	31.0	10.2	50.2



#68
Xylene, m+p
Concen: 130.42 ppb
RT: 16.565 min Scan# 1178
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

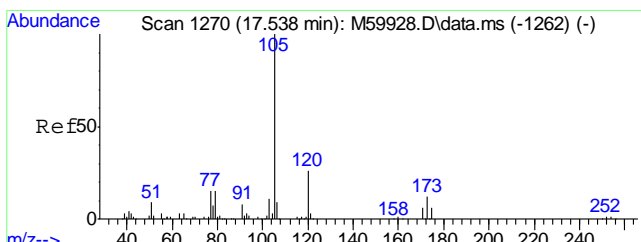
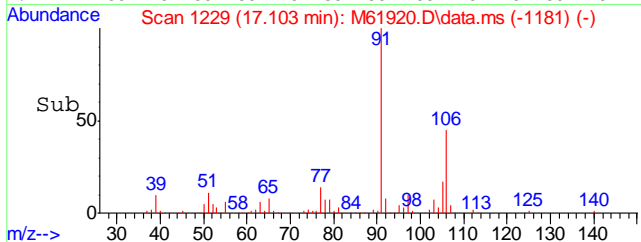
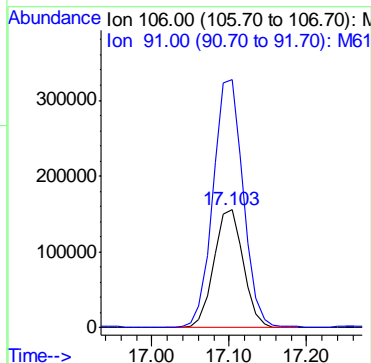
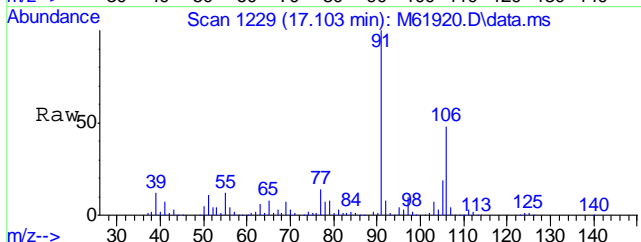
Tgt Ion	Resp	Lower	Upper
106	1254021	100	
91	196.7	191.5	231.5





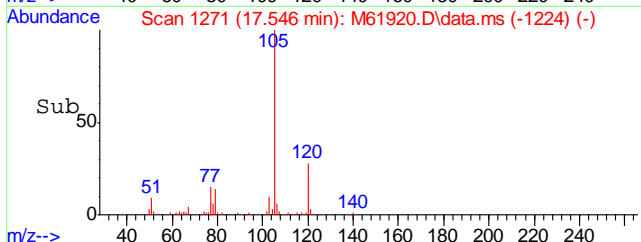
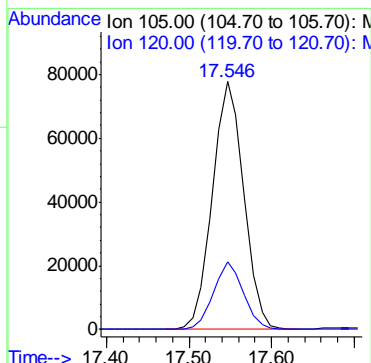
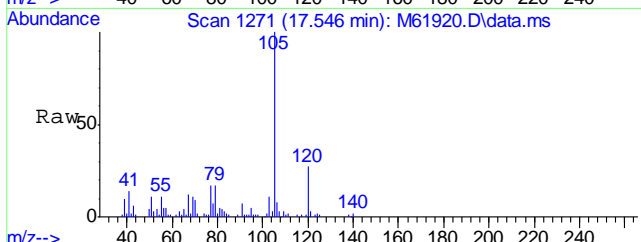
#69
Xylene, o
Concen: 41.98 ppb
RT: 17.103 min Scan# 1229
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

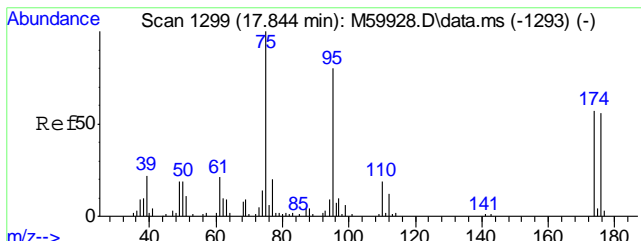
Tgt Ion	Resp	Lower	Upper
106	100		
91	213.9	203.2	243.2



#73
Isopropylbenzene
Concen: 8.37 ppb
RT: 17.546 min Scan# 1271
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

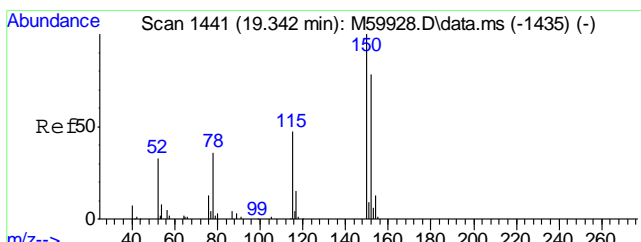
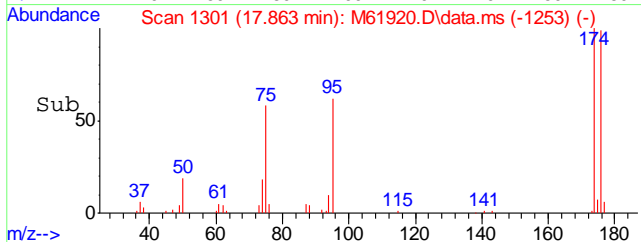
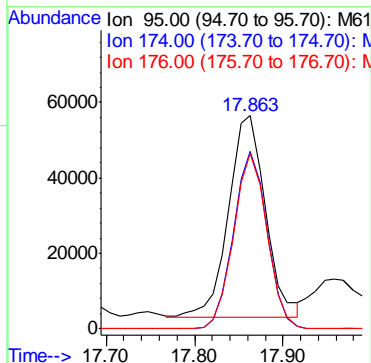
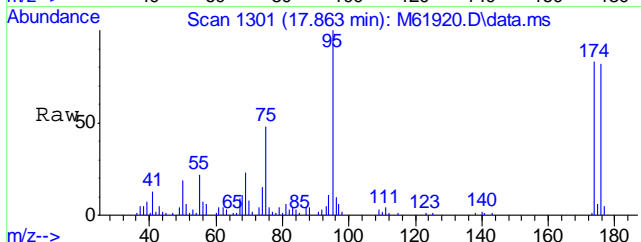
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.9	5.7	45.7





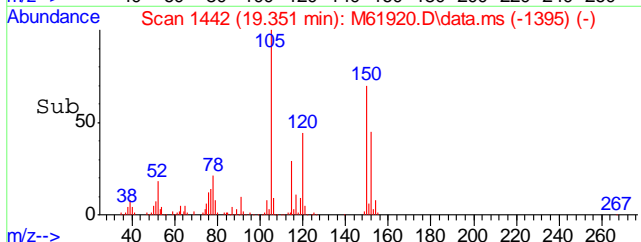
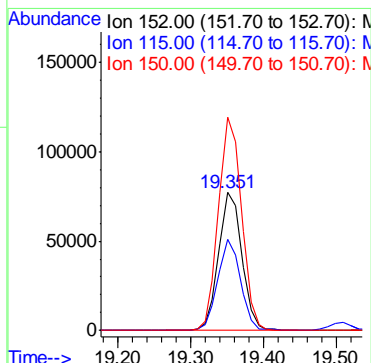
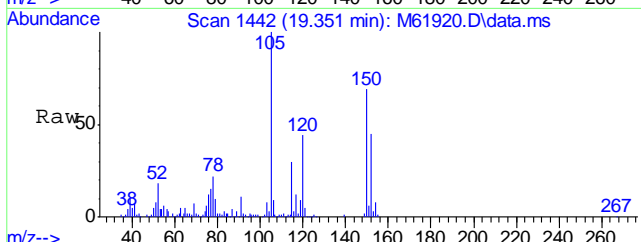
#74
4-Bromofluorobenzene
Concen: 21.82 ppb
RT: 17.863 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

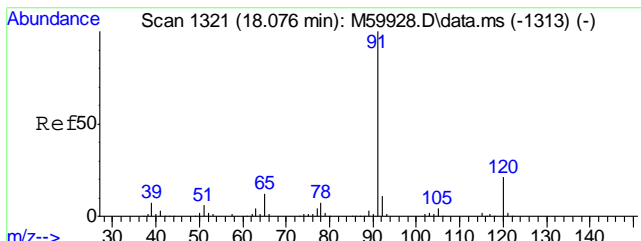
Tgt Ion	Resp	Lower	Upper
95	154717		
174	80.3	54.3	94.3
176	78.9	51.5	91.5



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.351 min Scan# 1442
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

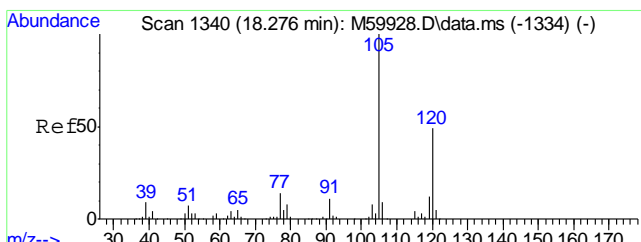
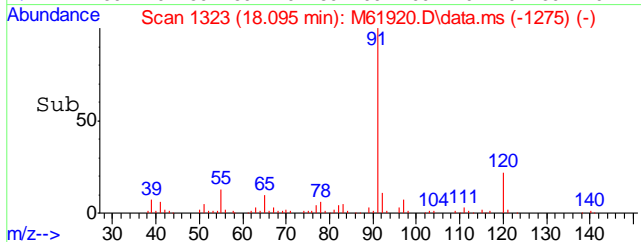
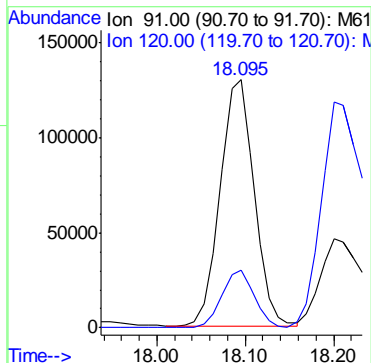
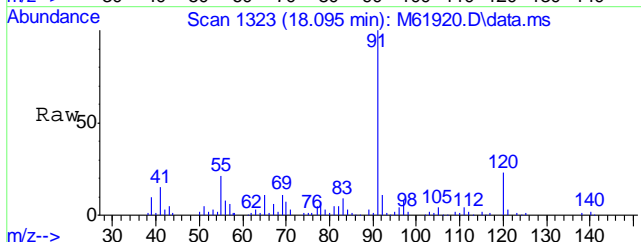
Tgt Ion	Resp	Lower	Upper
152	171327		
152	100		
115	64.5	40.9	80.9
150	152.0	178.6	218.6#





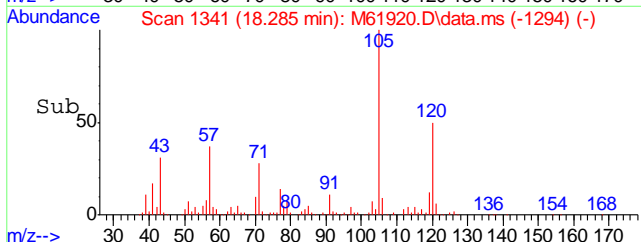
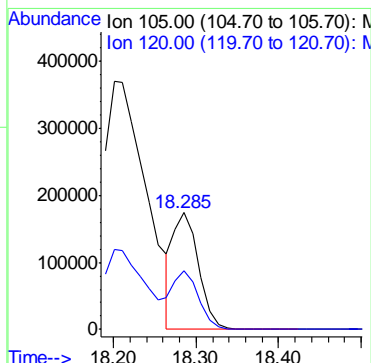
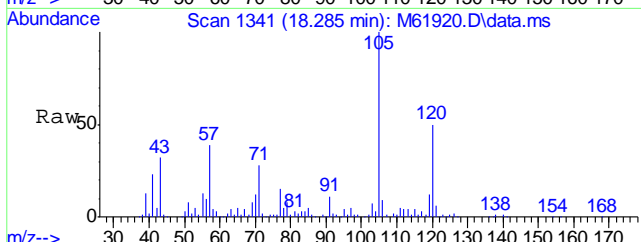
#79
 n-Propylbenzene
 Concen: 10.51 ppb
 RT: 18.095 min Scan# 1323
 Delta R.T. 0.009 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

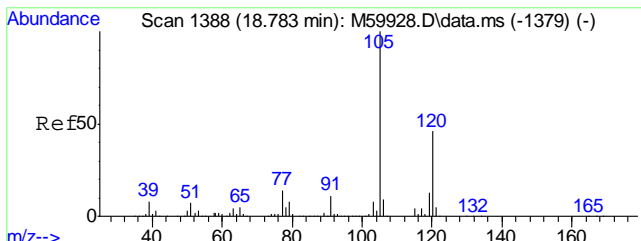
Tgt Ion	Resp	Lower	Upper
91	347776	100	
120	22.4	1.3	41.3



#81
 1,3,5-Trimethylbenzene
 Concen: 16.49 ppb
 RT: 18.285 min Scan# 1341
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

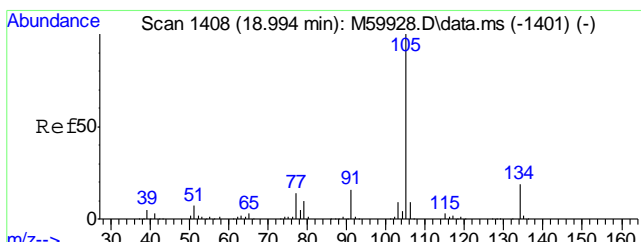
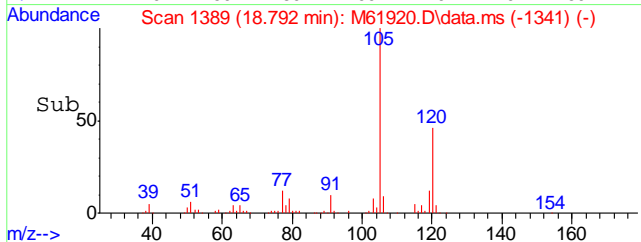
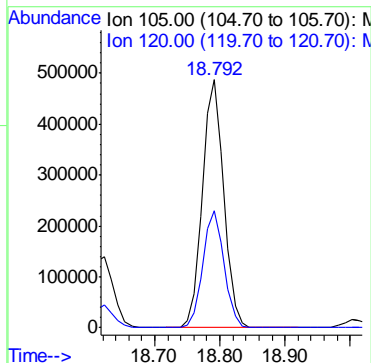
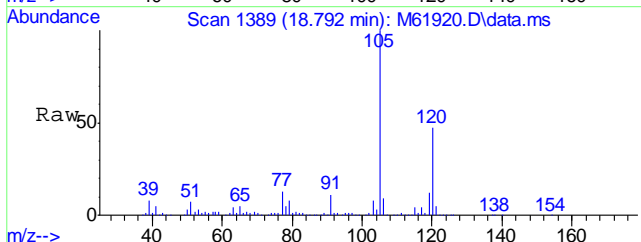
Tgt Ion	Resp	Lower	Upper
105	369088	100	
120	57.6	26.6	66.6





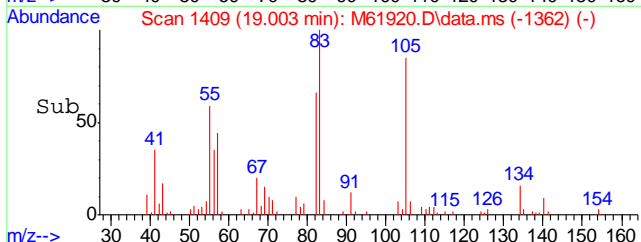
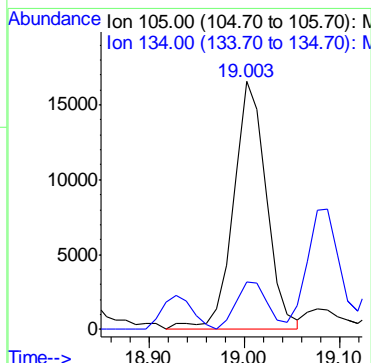
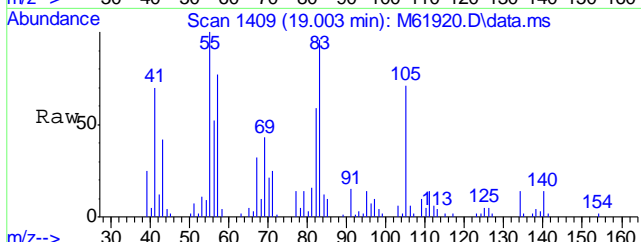
#86
1,2,4-Trimethylbenzene
Concen: 48.06 ppb
RT: 18.792 min Scan# 1389
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

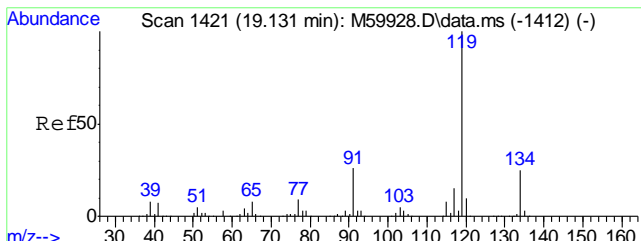
Tgt Ion:105 Resp: 1120672
Ion Ratio Lower Upper
105 100
120 46.6 32.4 72.4



#87
sec-Butylbenzene
Concen: 1.36 ppb
RT: 19.003 min Scan# 1409
Delta R.T. -0.002 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

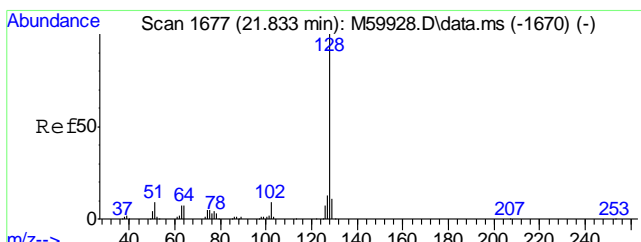
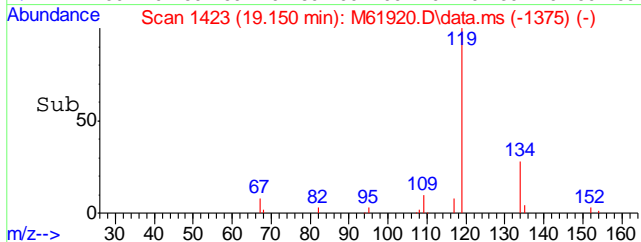
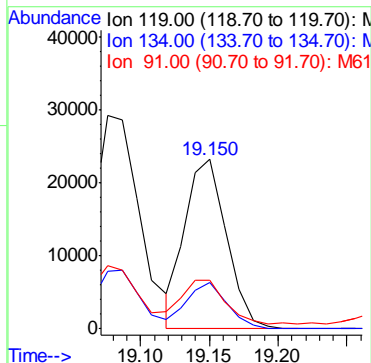
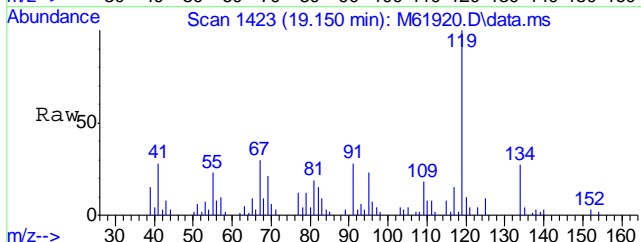
Tgt Ion:105 Resp: 39575
Ion Ratio Lower Upper
105 100
134 18.9 0.0 38.7





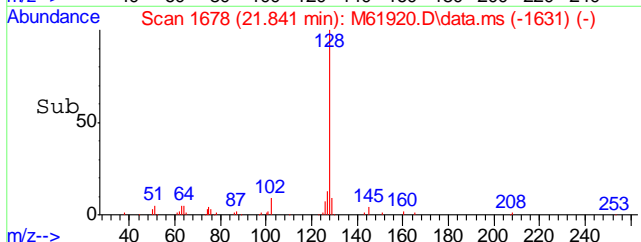
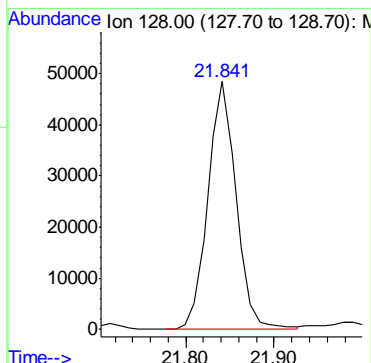
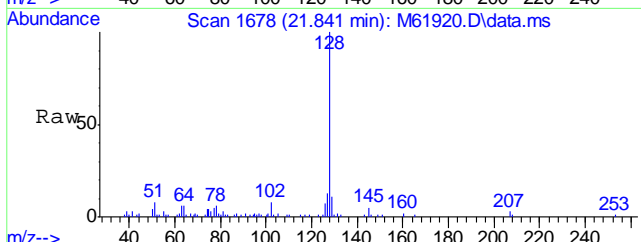
#88
 p-Isopropyltoluene
 Concen: 2.01 ppb
 RT: 19.150 min Scan# 1423
 Delta R.T. 0.009 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

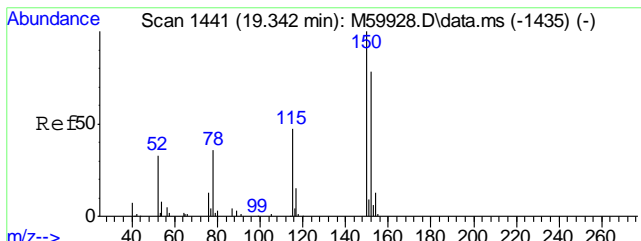
Tgt Ion	Resp	Lower	Upper
119	48735	100	
134	26.5	6.0	46.0
91	27.7	6.0	46.0



#97
 Naphthalene
 Concen: 5.22 ppb
 RT: 21.841 min Scan# 1678
 Delta R.T. -0.002 min
 Lab File: M61920.D
 Acq: 18 Jul 2016 8:16 pm

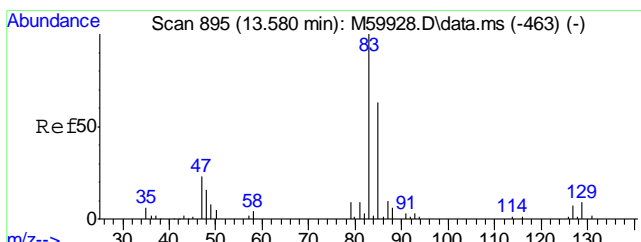
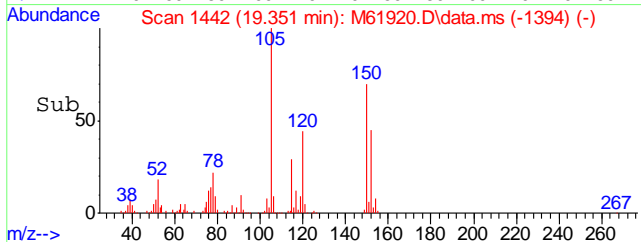
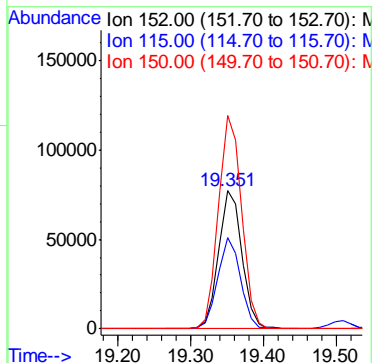
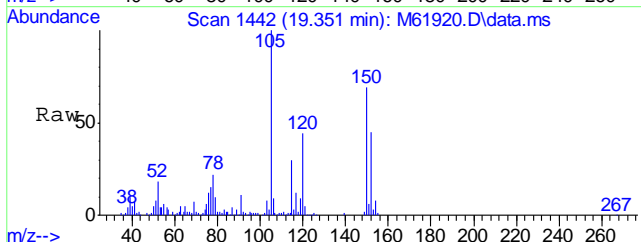
Tgt Ion	Resp
128	107566





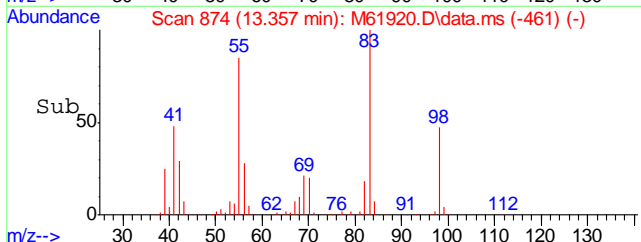
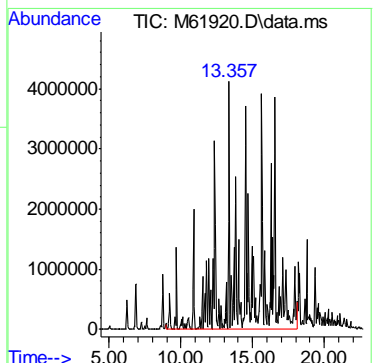
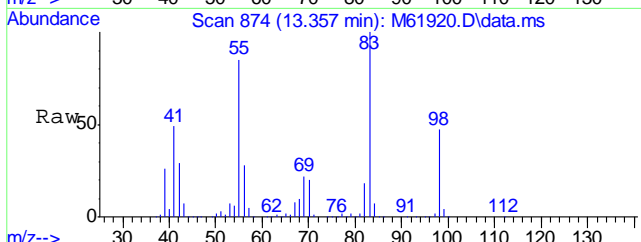
#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.351 min Scan# 1442
Delta R.T. 0.009 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

Tgt Ion:152 Resp: 171327
Ion Ratio Lower Upper
152 100
115 64.5 37.3 77.3
150 152.0 176.0 216.0#



#100
TPH-GRO (C6-C10)
Concen: 6745.57 ppb m
RT: 13.357 min Scan# 874
Delta R.T. -0.193 min
Lab File: M61920.D
Acq: 18 Jul 2016 8:16 pm

Tgt Ion:TIC Resp:243485523



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49982.D
 Acq On : 12 Jul 2016 5:42 pm
 Operator : johannat
 Sample : C46435-11R
 Misc : MS1912,VL1499,5.51,,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 11:01:16 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

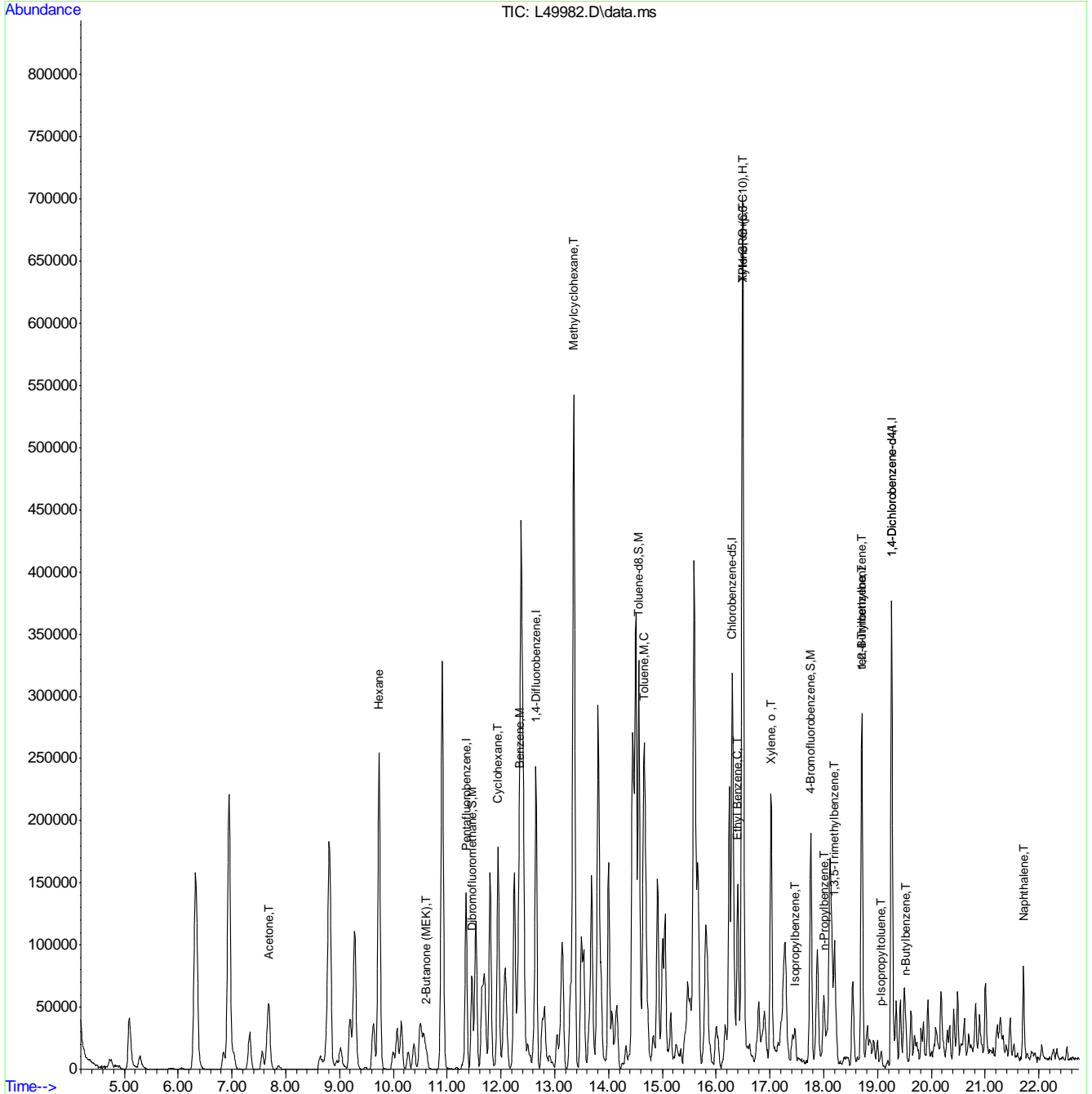
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	11.356	168	1220208	20.00	ug/Kg	0.00	
40) 1,4-Difluorobenzene	12.650	114	2132511	20.00	ug/Kg	0.00	
55) Chlorobenzene-d5	16.294	117	1822657	20.00	ug/Kg	-0.02	
77) 1,4-Dichlorobenzene-d4	19.263	152	855408	20.00	ug/Kg	-0.03	
99) 1,4-Dichlorobenzene-d4A	19.263	152	855408	20.00	ug/Kg	-0.03	
System Monitoring Compounds							
36) Dibromofluoromethane	11.460	111	658511	18.03	ug/Kg	0.00	
Spiked Amount	20.000	Range	72 - 140	Recovery	=	90.15%	
56) Toluene-d8	14.559	98	2562816	19.91	ug/Kg	-0.01	
Spiked Amount	20.000	Range	87 - 113	Recovery	=	99.55%	
74) 4-Bromofluorobenzene	17.762	95	1019721	19.06	ug/Kg	-0.01	
Spiked Amount	20.000	Range	81 - 115	Recovery	=	95.30%	
Target Compounds							
							Qvalue
11) Acetone	7.679	58	173785m	50.01	ug/Kg		
24) Hexane	9.730	57	1948175	50.59	ug/Kg		97
30) 2-Butanone (MEK)	10.609	72	45662	9.98	ug/Kg#		91
38) Cyclohexane	11.946	56	1279270	23.27	ug/Kg		95
45) Benzene	12.339	78	215132	1.35	ug/Kg		100
48) Methylcyclohexane	13.353	55	2909107	58.26	ug/Kg		99
57) Toluene	14.657	92	918854	10.17	ug/Kg		96
67) Ethyl Benzene	16.398	91	1278057	7.26	ug/Kg		99
68) Xylene, m+p	16.491	106	2221882	35.57	ug/Kg		97
69) Xylene, o	17.026	106	701772	11.00	ug/Kg		97
73) Isopropylbenzene	17.467	105	293635	1.85	ug/Kg		100
79) n-Propylbenzene	18.002	91	636675	3.20	ug/Kg		99
81) 1,3,5-Trimethylbenzene	18.199	105	648114	4.87	ug/Kg		94
84) tert-Butylbenzene	18.706	119	239580	1.87	ug/Kg#		73
86) 1,2,4-Trimethylbenzene	18.706	105	2129390	15.00	ug/Kg		91
88) p-Isopropyltoluene	19.066	119	83362	0.61	ug/Kg		91
92) n-Butylbenzene	19.519	91	175100	1.19	ug/Kg#		41
97) Naphthalene	21.713	128	746443	5.75	ug/Kg		100
100) TPH-GRO (C6-C10)	16.491	TIC	302378278m	1290.51	ug/Kg		

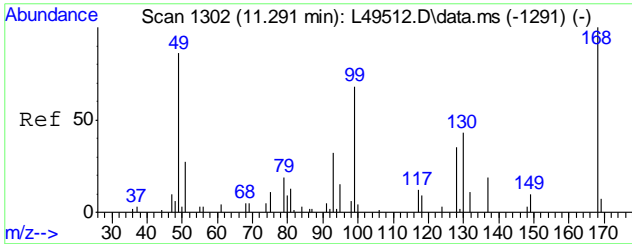
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

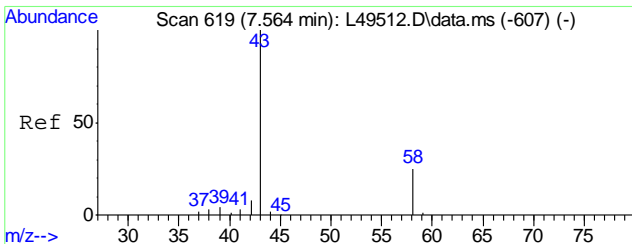
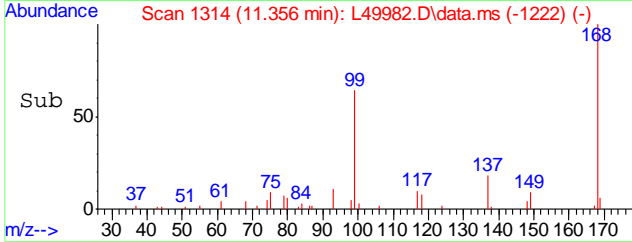
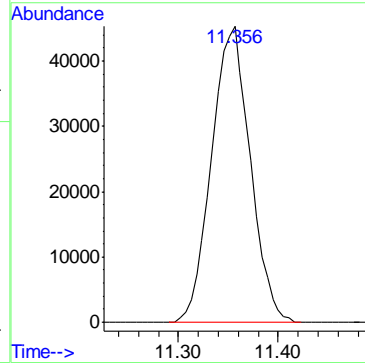
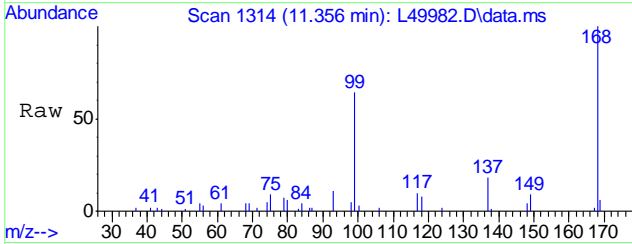
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49982.D
Acq On : 12 Jul 2016 5:42 pm
Operator : johannat
Sample : C46435-11R
Misc : MS1912,VL1499,5.51,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 11:01:16 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

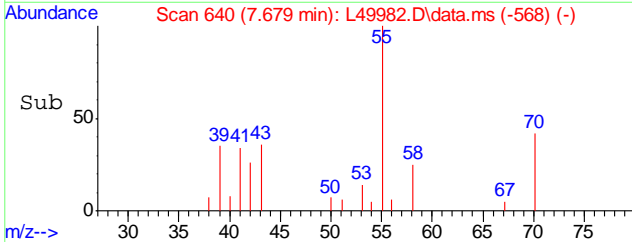
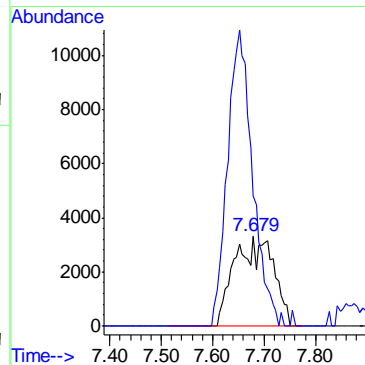
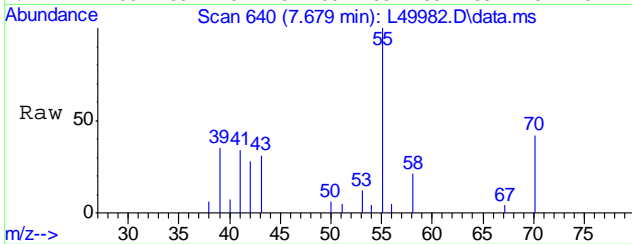


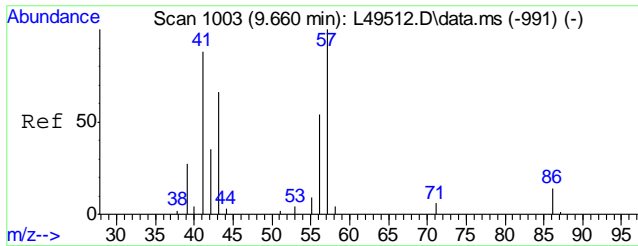


#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.356 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion:168 Resp: 1220208



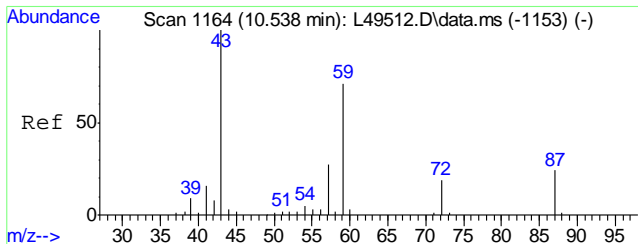
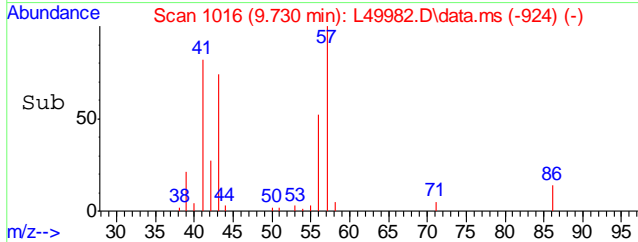
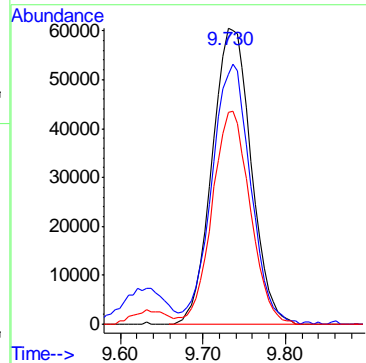
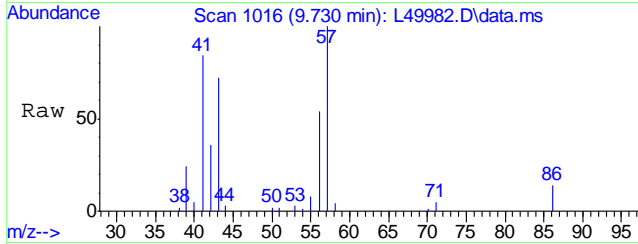
#11
 Acetone
 Concen: 50.01 ug/Kg m
 RT: 7.679 min Scan# 640
 Delta R.T. 0.044 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion: 58 Resp: 173785
 Ion Ratio Lower Upper
 58 100
 43 213.1 428.1 468.1#





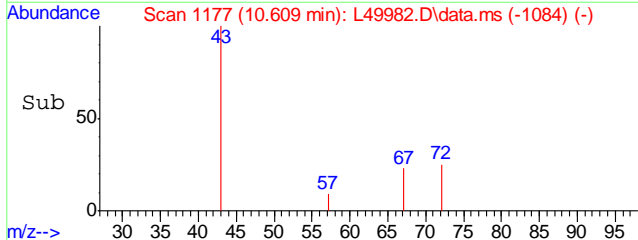
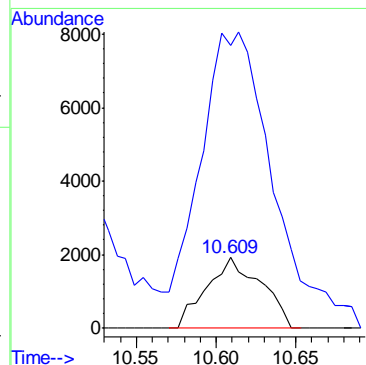
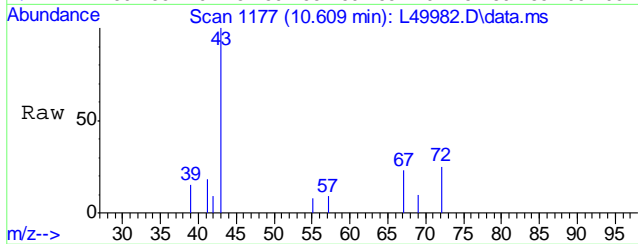
#24
Hexane
Concen: 50.59 ug/Kg
RT: 9.730 min Scan# 1016
Delta R.T. 0.000 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

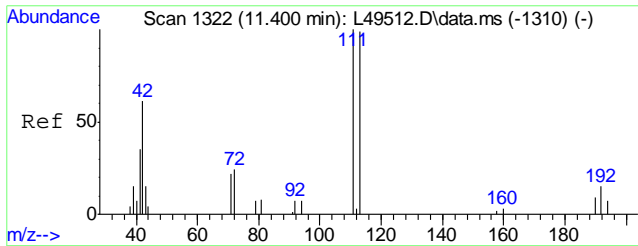
Tgt Ion	Resp	Lower	Upper
57	1948175		
57	100		
41	87.7	73.8	110.8
43	70.3	56.6	84.8



#30
2-Butanone (MEK)
Concen: 9.98 ug/Kg
RT: 10.609 min Scan# 1177
Delta R.T. 0.006 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

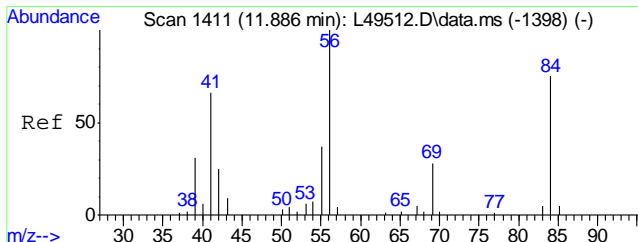
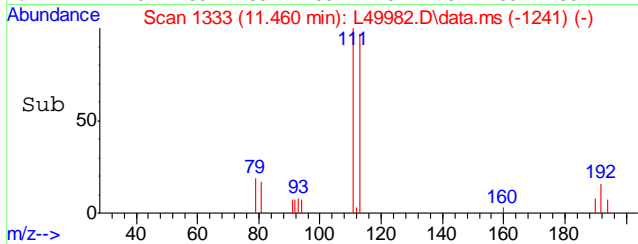
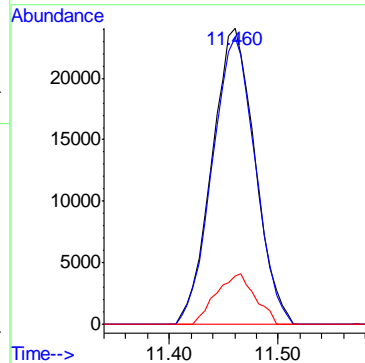
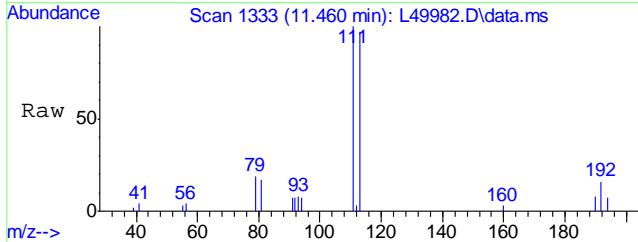
Tgt Ion	Resp	Lower	Upper
72	45662		
72	100		
43	566.5	573.4	613.4#





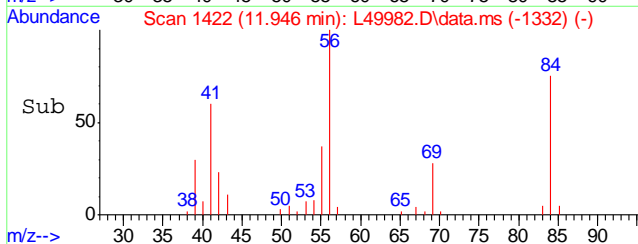
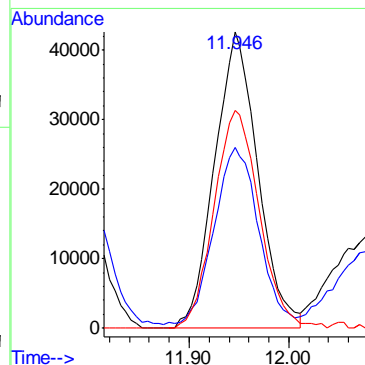
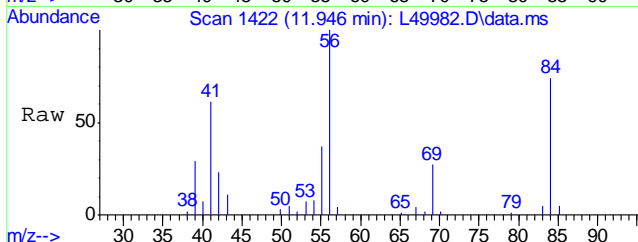
#36
 Dibromofluoromethane
 Concen: 18.03 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

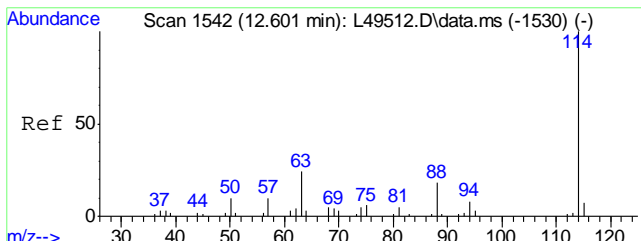
Tgt Ion	Resp	Lower	Upper
111	100		
113	96.9	78.6	118.6
192	15.5	0.0	34.1



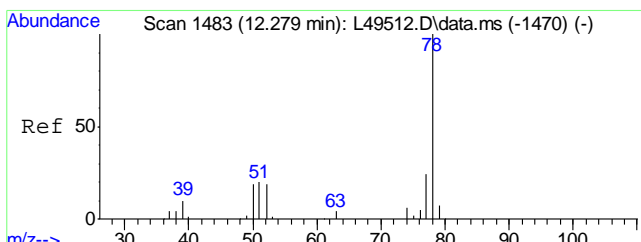
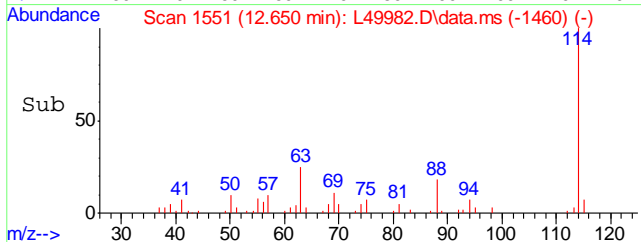
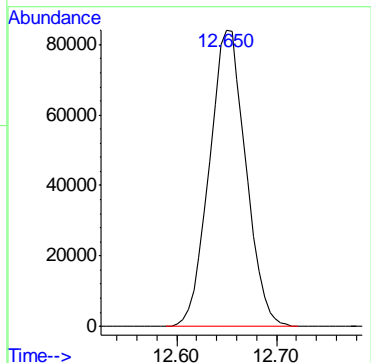
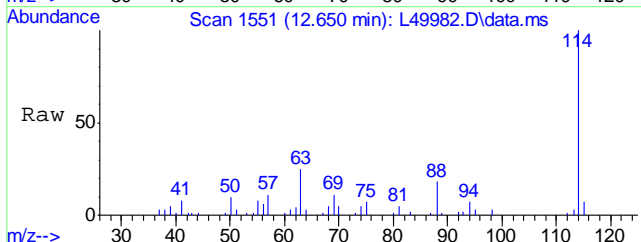
#38
 Cyclohexane
 Concen: 23.27 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.011 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

Tgt Ion	Resp	Lower	Upper
56	100		
41	60.8	53.7	80.5
84	77.0	60.5	90.7

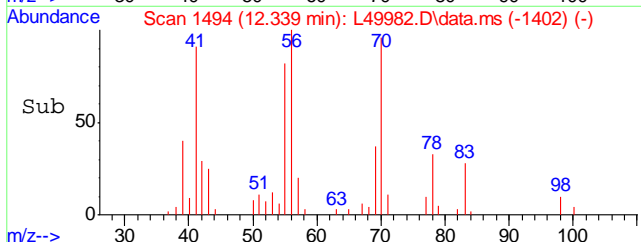
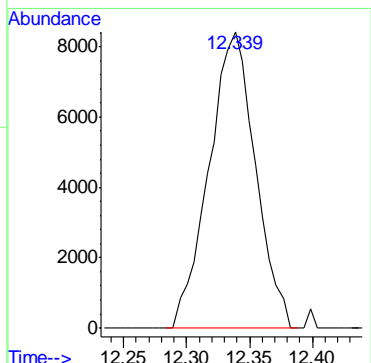
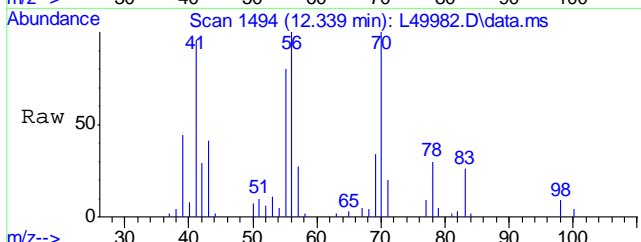


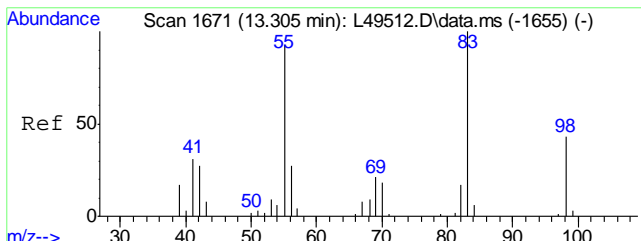


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion:114 Resp: 2132511



#45
 Benzene
 Concen: 1.35 ug/Kg
 RT: 12.339 min Scan# 1494
 Delta R.T. 0.000 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion: 78 Resp: 215132

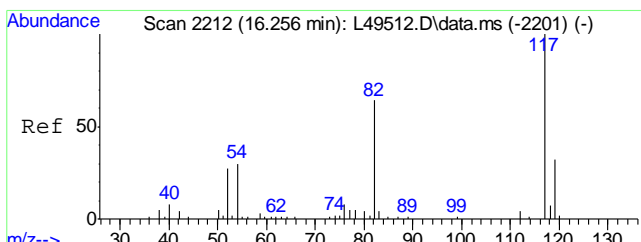
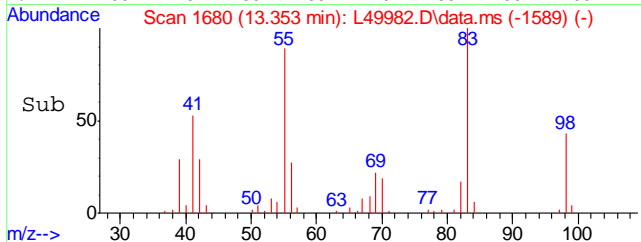
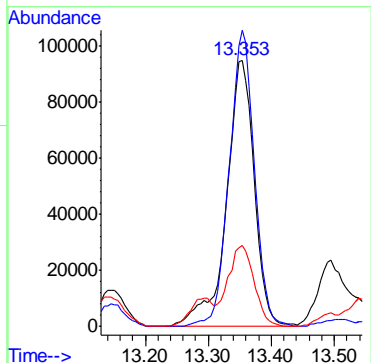
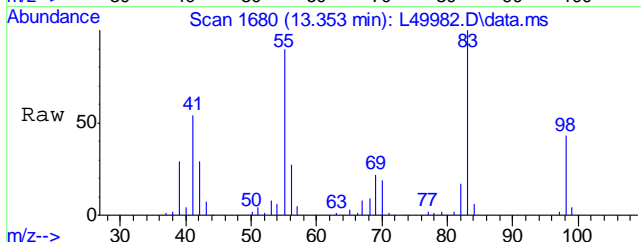




#48
Methylcyclohexane
Concen: 58.26 ug/Kg
RT: 13.353 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion: 55 Resp: 2909107

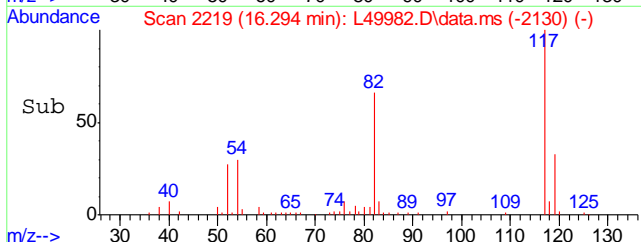
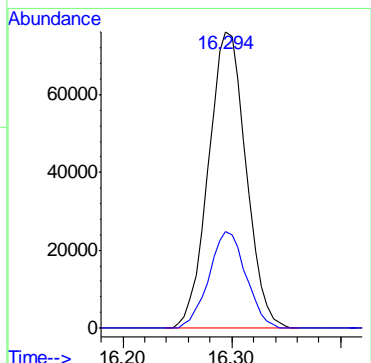
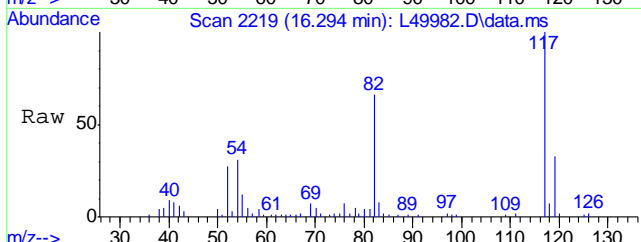
Ion	Ratio	Lower	Upper
55	100		
83	100.6	80.6	120.6
56	29.0	11.5	51.5

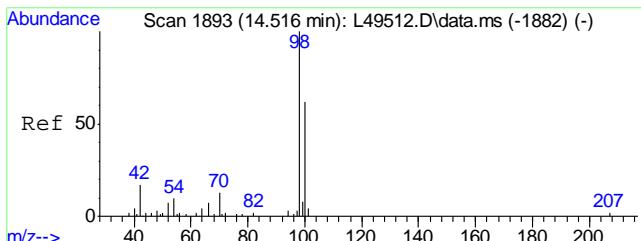


#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.294 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion: 117 Resp: 1822657

Ion	Ratio	Lower	Upper
117	100		
119	32.0	10.2	50.2

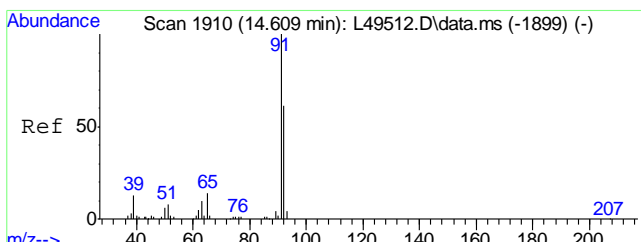
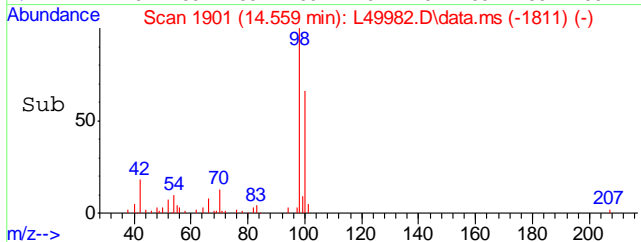
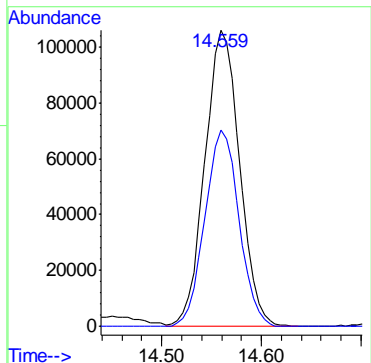
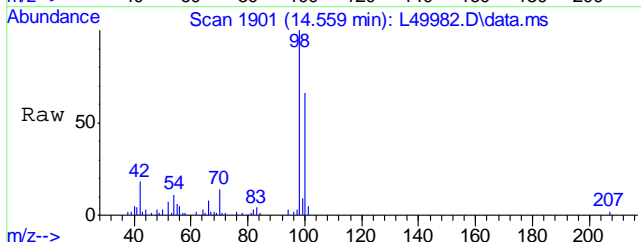




#56
Toluene-d8
Concen: 19.91 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.011 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion: 98 Resp: 2562816

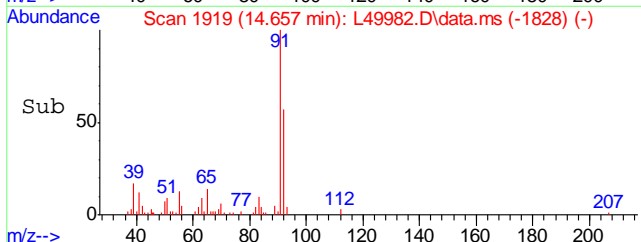
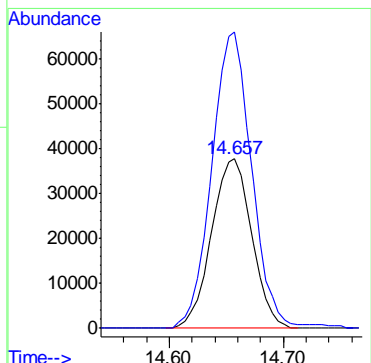
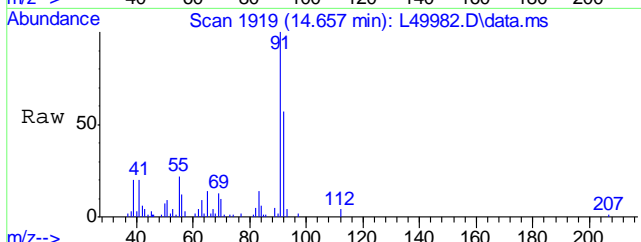
Ion	Ratio	Lower	Upper
98	100		
100	65.0	45.2	85.2

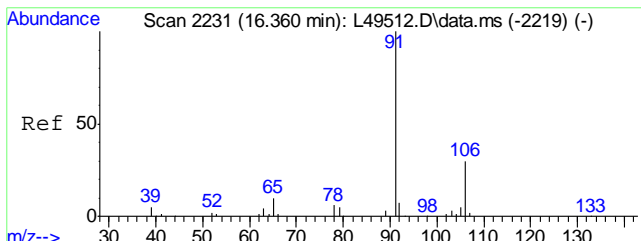


#57
Toluene
Concen: 10.17 ug/Kg
RT: 14.657 min Scan# 1919
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion: 92 Resp: 918854

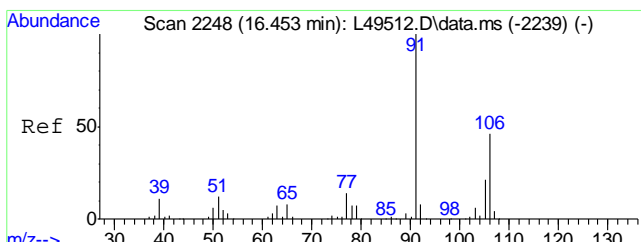
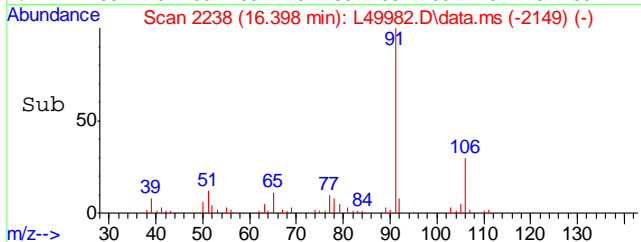
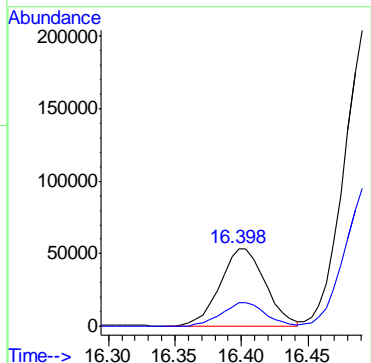
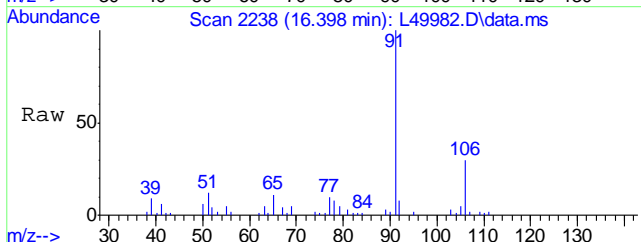
Ion	Ratio	Lower	Upper
92	100		
91	174.3	149.2	189.2





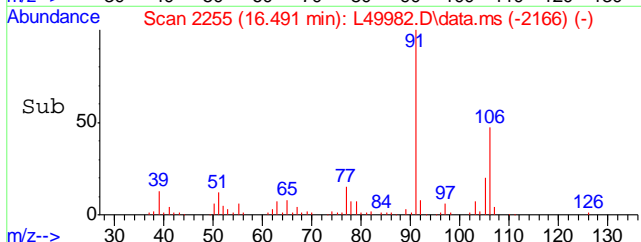
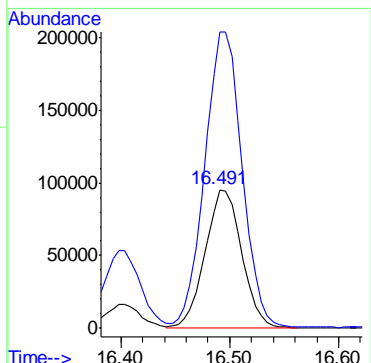
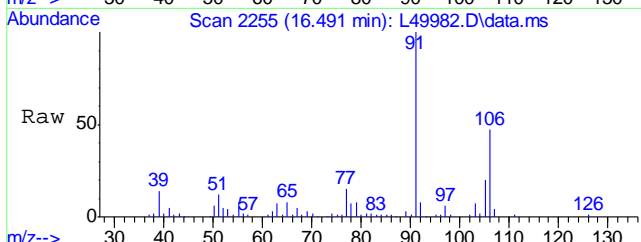
#67
Ethyl Benzene
Concen: 7.26 ug/Kg
RT: 16.398 min Scan# 2238
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

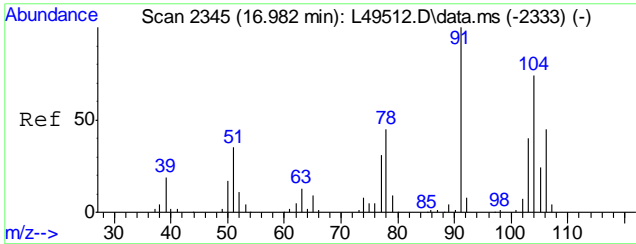
Tgt Ion: 91 Resp: 1278057
Ion Ratio Lower Upper
91 100
106 29.2 8.6 48.6



#68
Xylene, m+p
Concen: 35.57 ug/Kg
RT: 16.491 min Scan# 2255
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

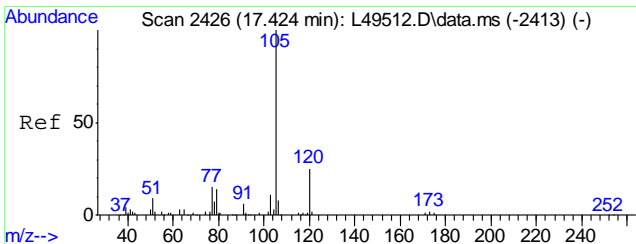
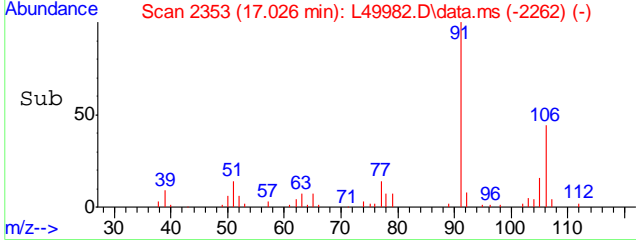
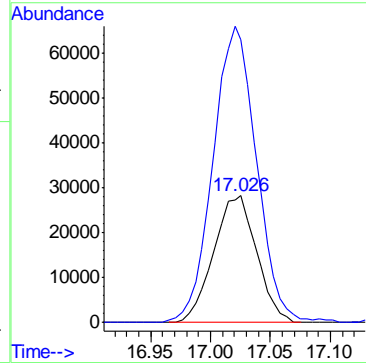
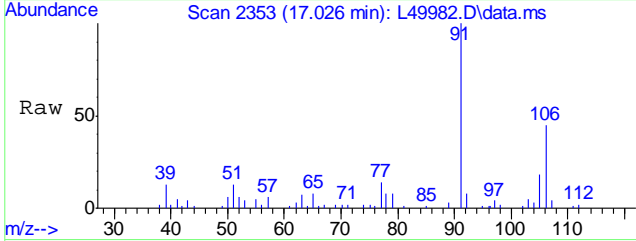
Tgt Ion: 106 Resp: 2221882
Ion Ratio Lower Upper
106 100
91 217.5 202.1 242.1





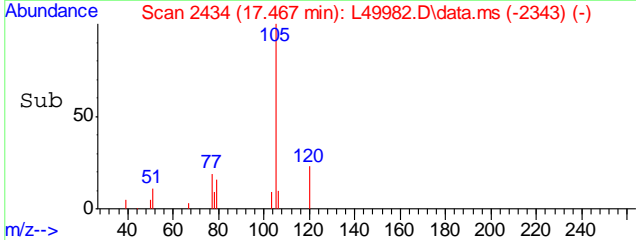
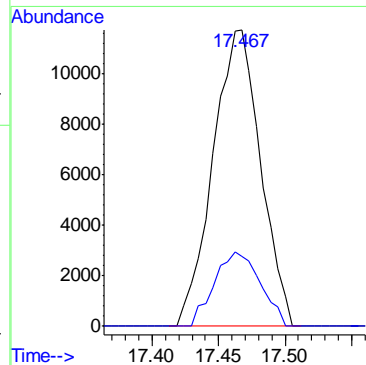
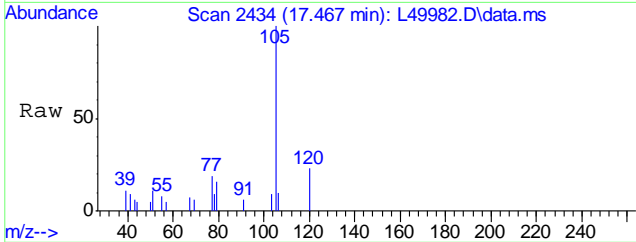
#69
Xylene, o
Concen: 11.00 ug/Kg
RT: 17.026 min Scan# 2353
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

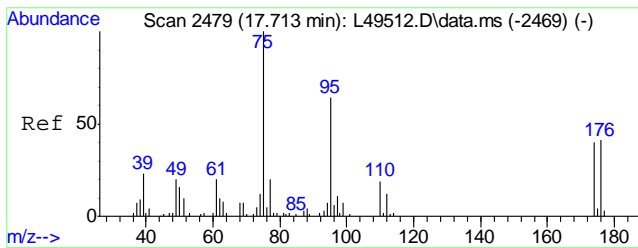
Tgt Ion:106 Resp: 701772
Ion Ratio Lower Upper
106 100
91 237.0 212.6 252.6



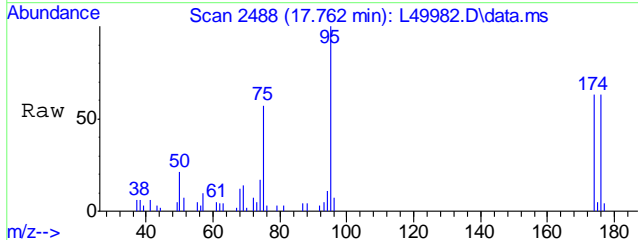
#73
Isopropylbenzene
Concen: 1.85 ug/Kg
RT: 17.467 min Scan# 2434
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion:105 Resp: 293635
Ion Ratio Lower Upper
105 100
120 24.1 4.1 44.1

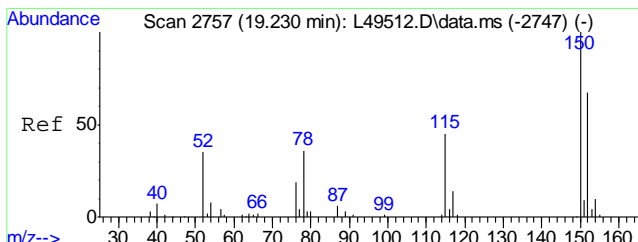
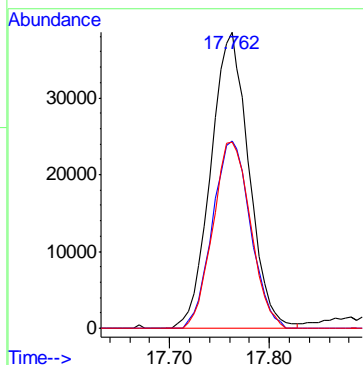
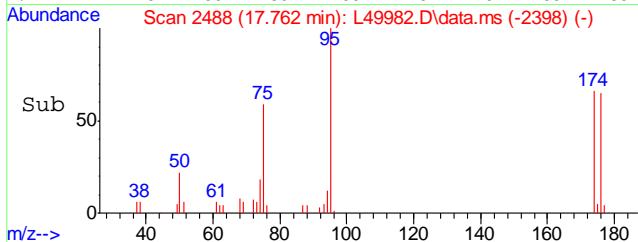




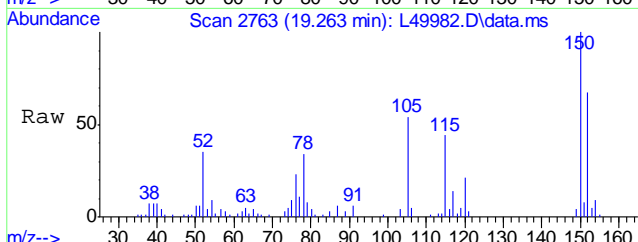
#74
4-Bromofluorobenzene
Concen: 19.06 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.011 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm



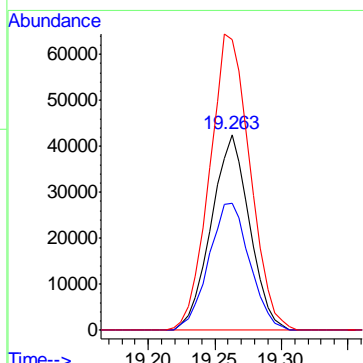
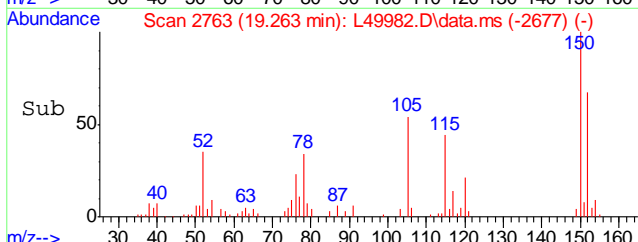
Tgt Ion: 95 Resp: 1019721
Ion Ratio Lower Upper
95 100
174 63.2 41.6 81.6
176 62.3 39.6 79.6

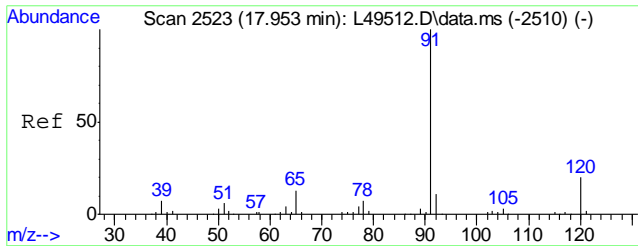


#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm



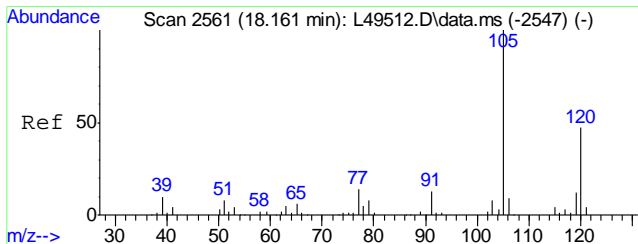
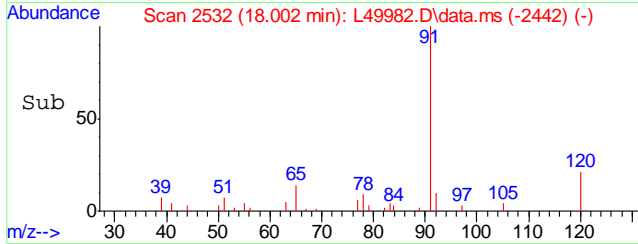
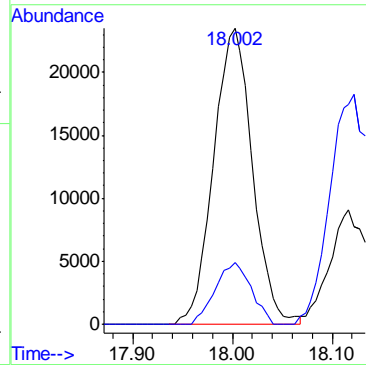
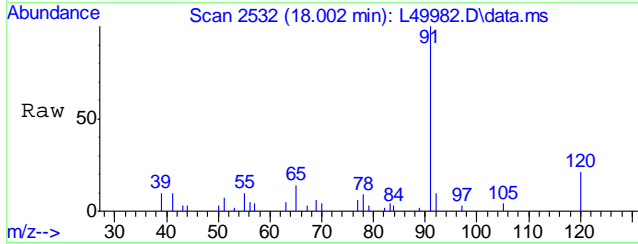
Tgt Ion: 152 Resp: 855408
Ion Ratio Lower Upper
152 100
115 69.2 48.8 88.8
150 159.7 174.3 214.3#





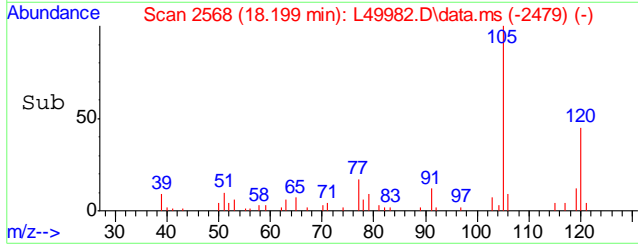
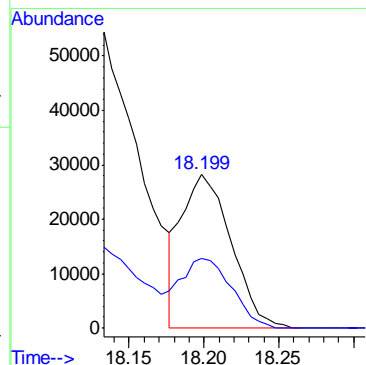
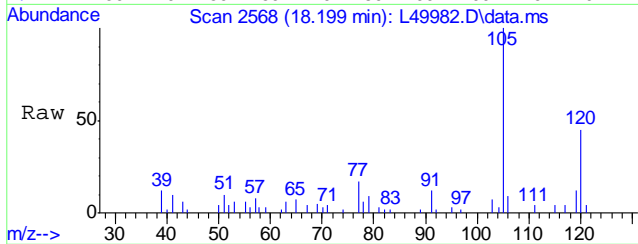
#79
n-Propylbenzene
Concen: 3.20 ug/Kg
RT: 18.002 min Scan# 2532
Delta R.T. -0.011 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

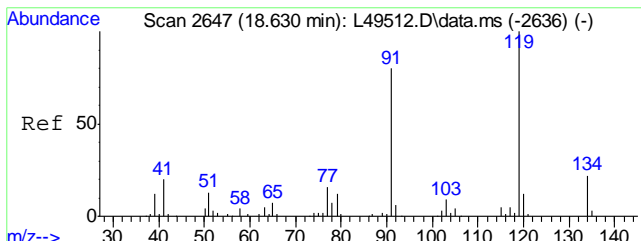
Tgt Ion: 91 Resp: 636675
Ion Ratio Lower Upper
91 100
120 19.3 0.0 39.7



#81
1,3,5-Trimethylbenzene
Concen: 4.87 ug/Kg
RT: 18.199 min Scan# 2568
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

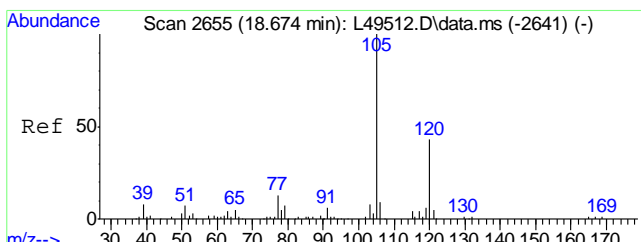
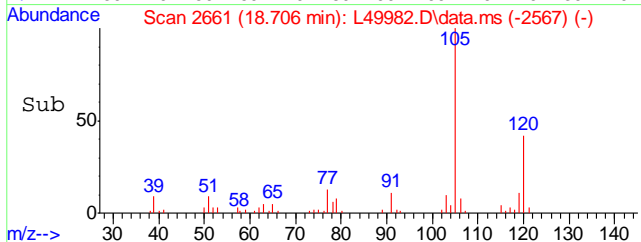
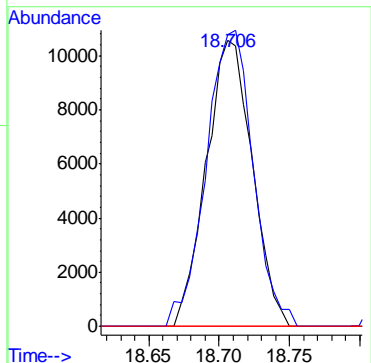
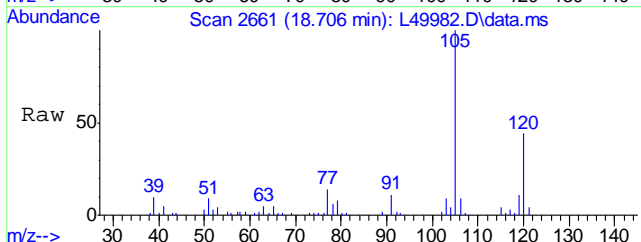
Tgt Ion: 105 Resp: 648114
Ion Ratio Lower Upper
105 100
120 48.7 24.8 64.8





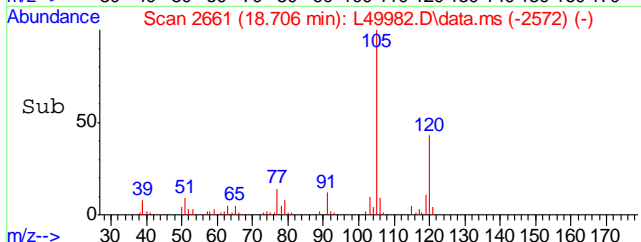
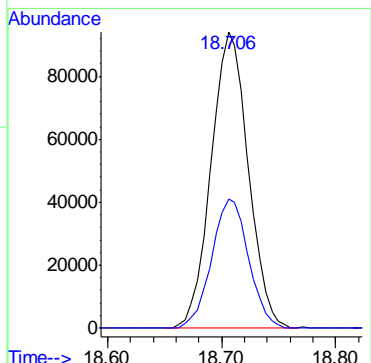
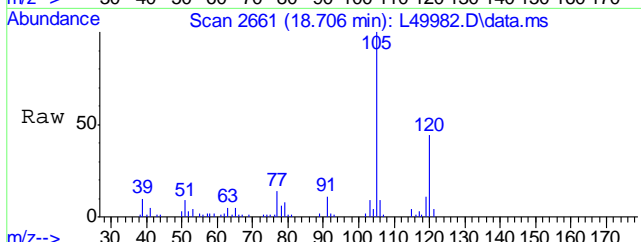
#84
tert-Butylbenzene
Concen: 1.87 ug/Kg
RT: 18.706 min Scan# 2661
Delta R.T. 0.014 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

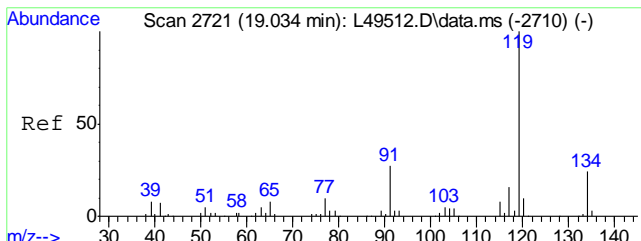
Tgt Ion	Resp	Lower	Upper
119	239580	100	
91	105.4	64.0	104.0#
134	0.0	0.0	38.8



#86
1,2,4-Trimethylbenzene
Concen: 15.00 ug/Kg
RT: 18.706 min Scan# 2661
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

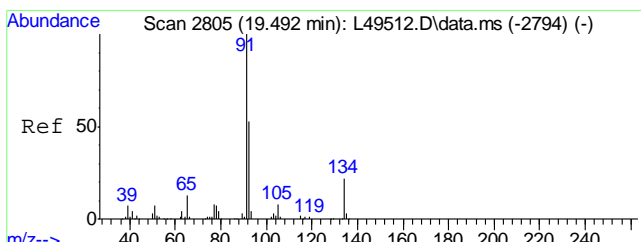
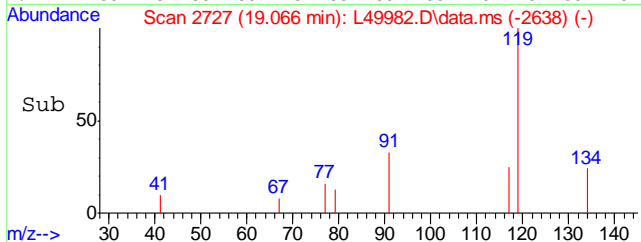
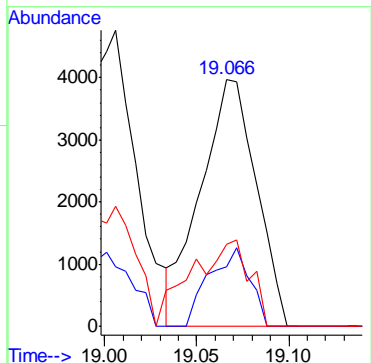
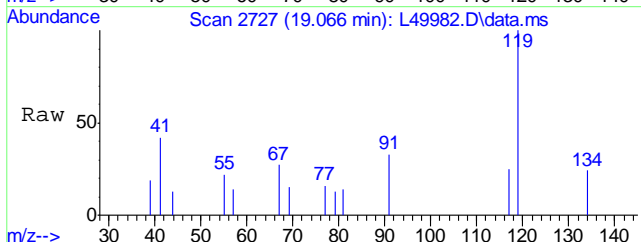
Tgt Ion	Resp	Lower	Upper
105	2129390	100	
120	43.3	29.7	69.7





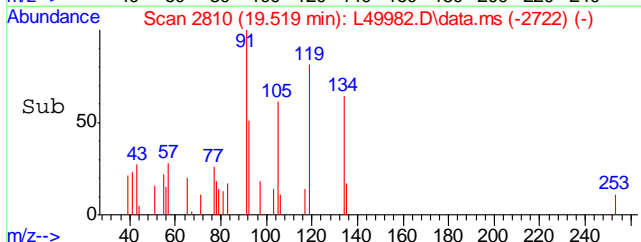
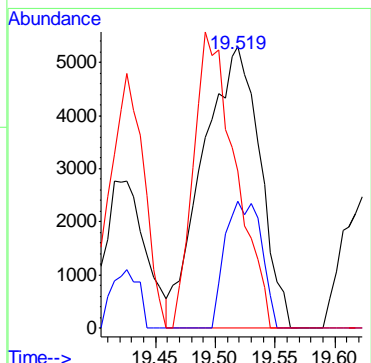
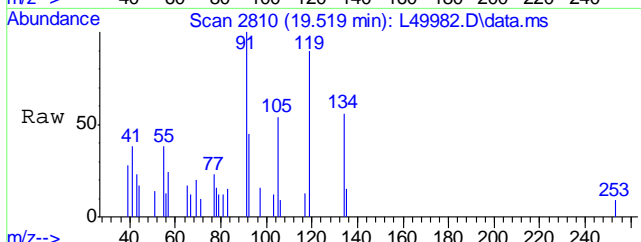
#88
 p-Isopropyltoluene
 Concen: 0.61 ug/Kg
 RT: 19.066 min Scan# 2727
 Delta R.T. -0.016 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

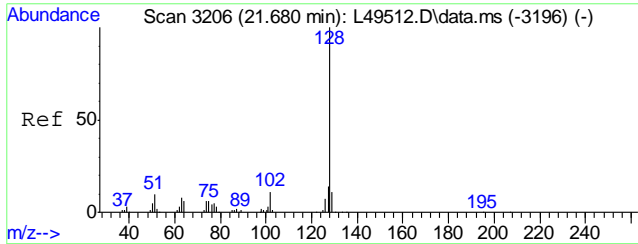
Tgt Ion	Resp	Lower	Upper
119	83362	100	
134	23.0	3.9	43.9
91	36.5	8.5	48.5



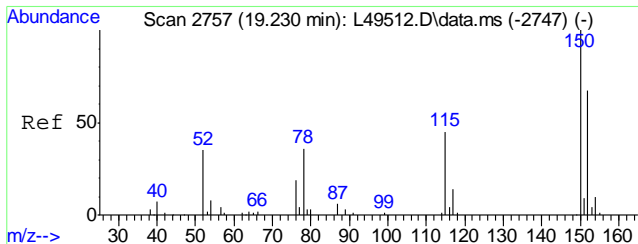
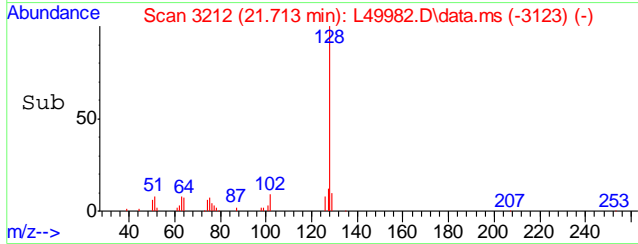
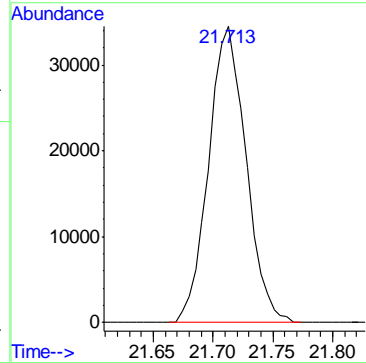
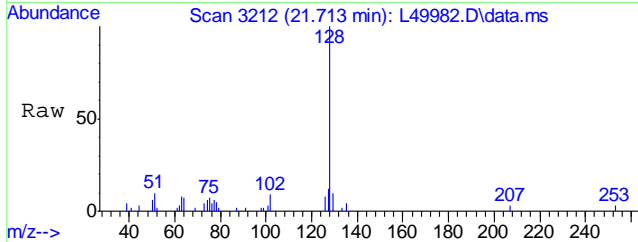
#92
 n-Butylbenzene
 Concen: 1.19 ug/Kg
 RT: 19.519 min Scan# 2810
 Delta R.T. -0.022 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

Tgt Ion	Resp	Lower	Upper
91	175100	100	
92	29.0	35.1	75.1#
134	77.4	1.1	41.1#

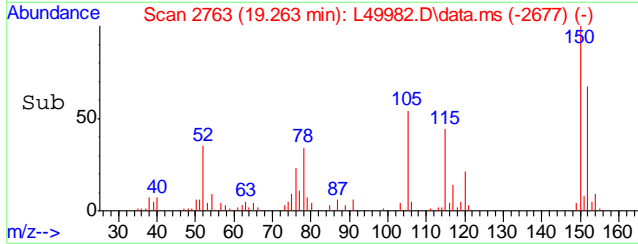
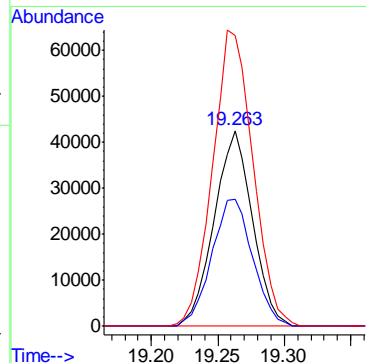
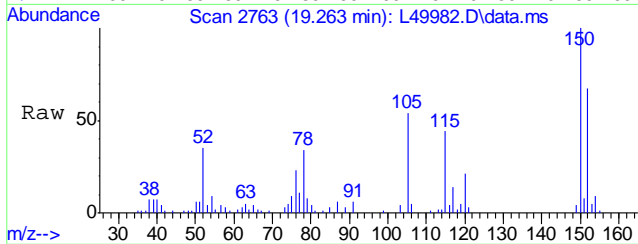


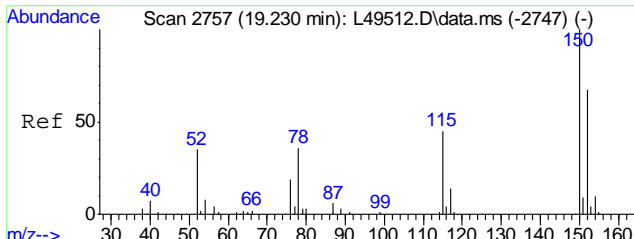


#97
Naphthalene
Concen: 5.75 ug/Kg
RT: 21.713 min Scan# 3212
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm
Tgt Ion:128 Resp: 746443

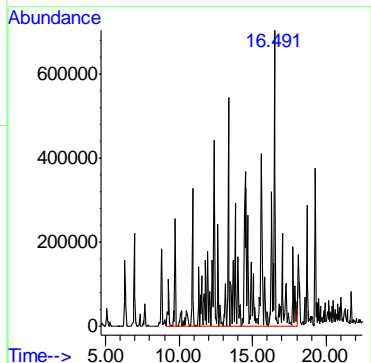
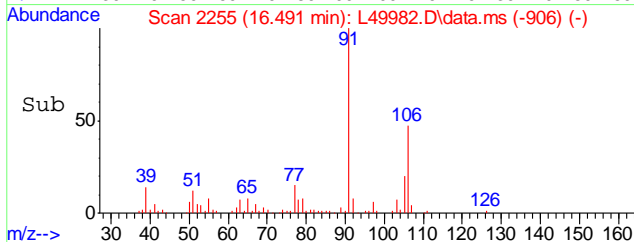
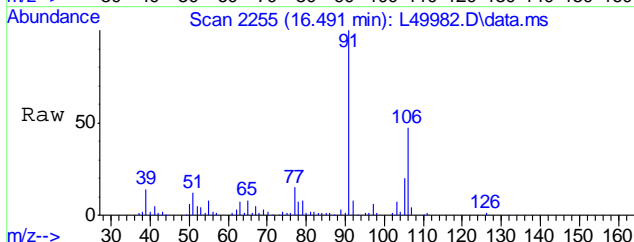


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm
Tgt Ion:152 Resp: 855408
Ion Ratio Lower Upper
152 100
115 69.2 41.6 81.6
150 159.7 176.9 216.9#





#100
TPH-GRO (C6-C10)
Concen: 1290.51 ug/Kg m
RT: 16.491 min Scan# 2255
Delta R.T. 1.965 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm
Tgt Ion:TIC Resp:302378278



6.1.17
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49982.D
 Acq On : 12 Jul 2016 5:42 pm
 Operator : johannat
 Sample : C46435-11R
 Misc : MS1912,VL1499,5.51,,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 11:01:16 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

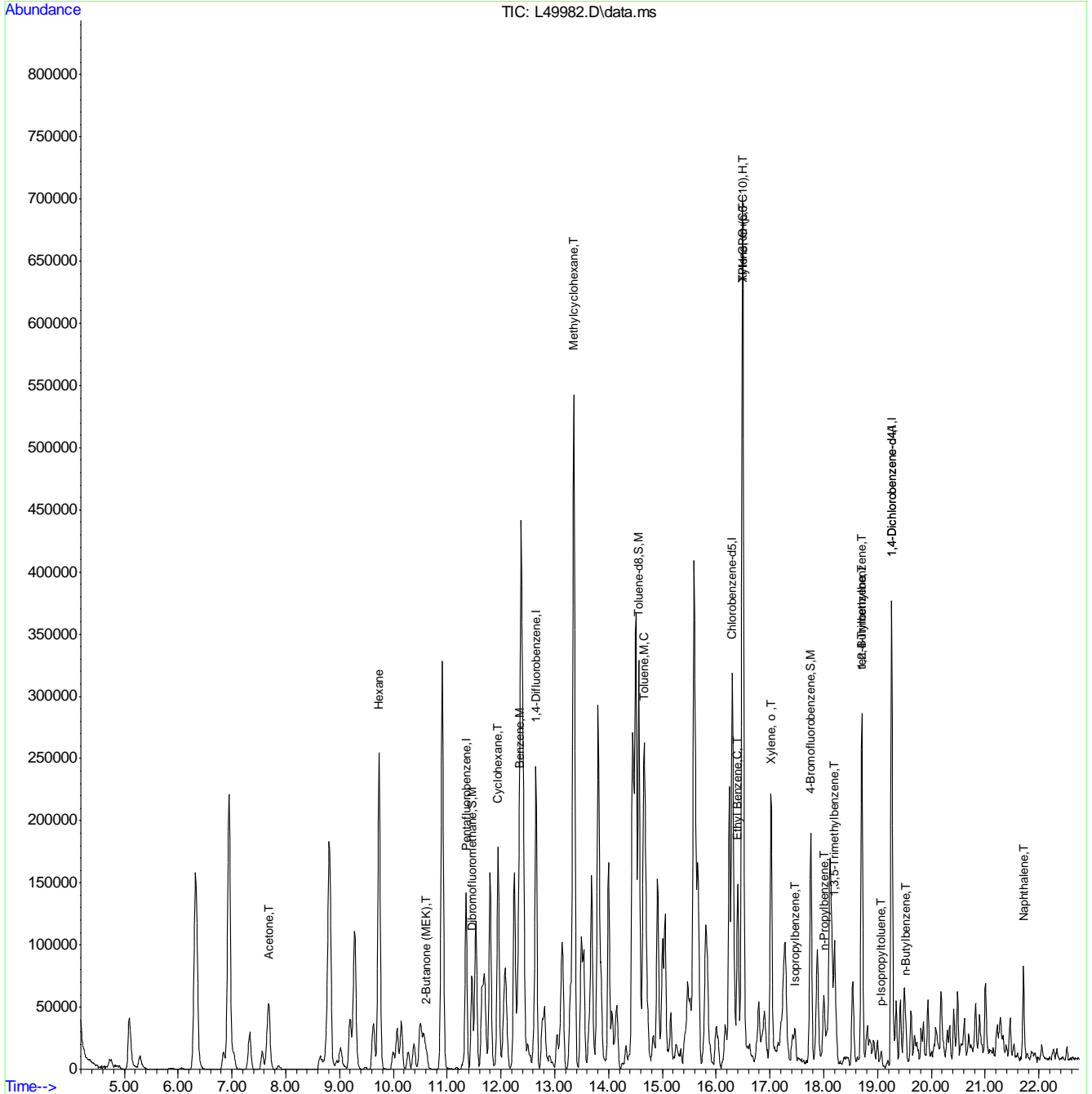
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	11.356	168	1220208	20.00	ug/Kg	0.00	
40) 1,4-Difluorobenzene	12.650	114	2132511	20.00	ug/Kg	0.00	
55) Chlorobenzene-d5	16.294	117	1822657	20.00	ug/Kg	-0.02	
77) 1,4-Dichlorobenzene-d4	19.263	152	855408	20.00	ug/Kg	-0.03	
99) 1,4-Dichlorobenzene-d4A	19.263	152	855408	20.00	ug/Kg	-0.03	
System Monitoring Compounds							
36) Dibromofluoromethane	11.460	111	658511	18.03	ug/Kg	0.00	
Spiked Amount	20.000	Range	72 - 140	Recovery	=	90.15%	
56) Toluene-d8	14.559	98	2562816	19.91	ug/Kg	-0.01	
Spiked Amount	20.000	Range	87 - 113	Recovery	=	99.55%	
74) 4-Bromofluorobenzene	17.762	95	1019721	19.06	ug/Kg	-0.01	
Spiked Amount	20.000	Range	81 - 115	Recovery	=	95.30%	
Target Compounds							
							Qvalue
11) Acetone	7.679	58	173785m	50.01	ug/Kg		
24) Hexane	9.730	57	1948175	50.59	ug/Kg		97
30) 2-Butanone (MEK)	10.609	72	45662	9.98	ug/Kg#		91
38) Cyclohexane	11.946	56	1279270	23.27	ug/Kg		95
45) Benzene	12.339	78	215132	1.35	ug/Kg		100
48) Methylcyclohexane	13.353	55	2909107	58.26	ug/Kg		99
57) Toluene	14.657	92	918854	10.17	ug/Kg		96
67) Ethyl Benzene	16.398	91	1278057	7.26	ug/Kg		99
68) Xylene, m+p	16.491	106	2221882	35.57	ug/Kg		97
69) Xylene, o	17.026	106	701772	11.00	ug/Kg		97
73) Isopropylbenzene	17.467	105	293635	1.85	ug/Kg		100
79) n-Propylbenzene	18.002	91	636675	3.20	ug/Kg		99
81) 1,3,5-Trimethylbenzene	18.199	105	648114	4.87	ug/Kg		94
84) tert-Butylbenzene	18.706	119	239580	1.87	ug/Kg#		73
86) 1,2,4-Trimethylbenzene	18.706	105	2129390	15.00	ug/Kg		91
88) p-Isopropyltoluene	19.066	119	83362	0.61	ug/Kg		91
92) n-Butylbenzene	19.519	91	175100	1.19	ug/Kg#		41
97) Naphthalene	21.713	128	746443	5.75	ug/Kg		100
100) TPH-GRO (C6-C10)	16.491	TIC	302378278m	1290.51	ug/Kg		

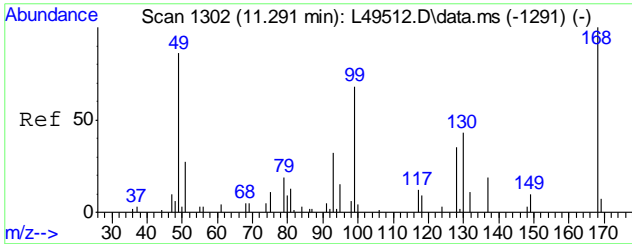
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

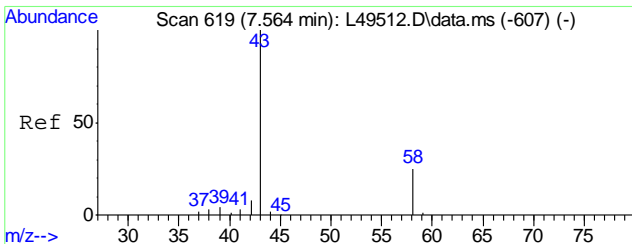
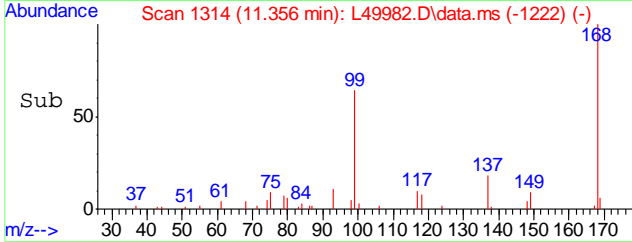
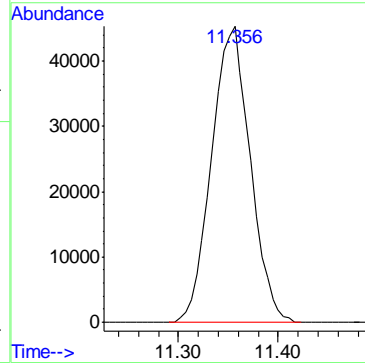
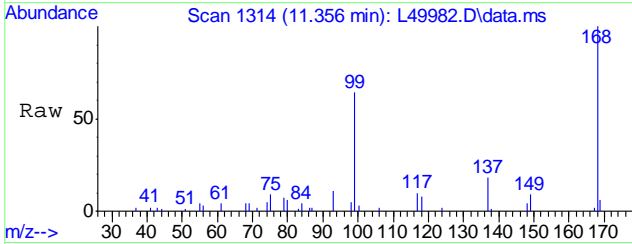
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49982.D
Acq On : 12 Jul 2016 5:42 pm
Operator : johannat
Sample : C46435-11R
Misc : MS1912,VL1499,5.51,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 11:01:16 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

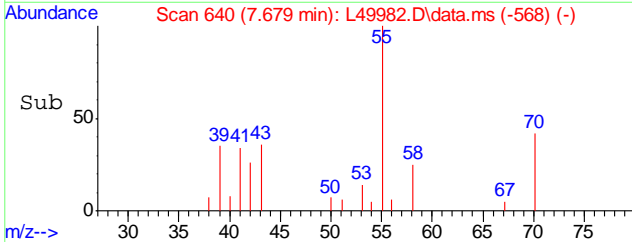
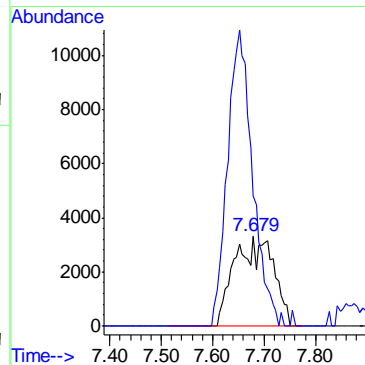
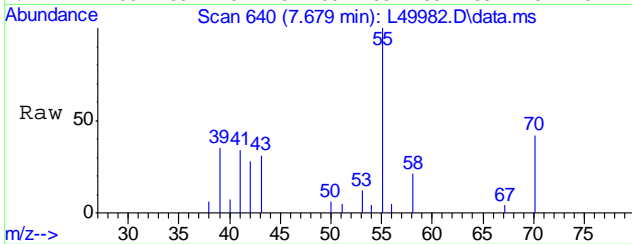


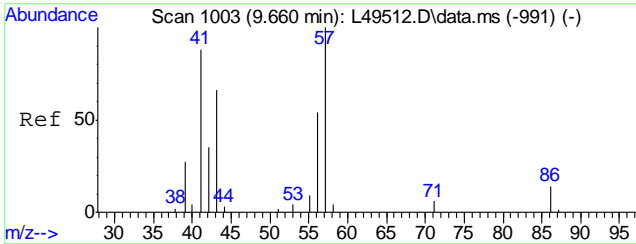


#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.356 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion:168 Resp: 1220208



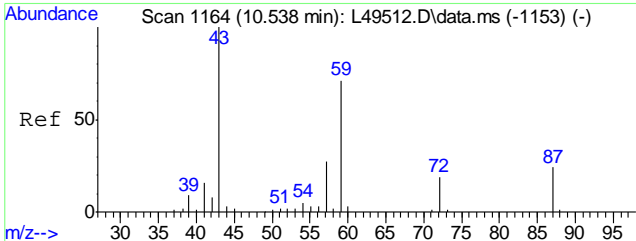
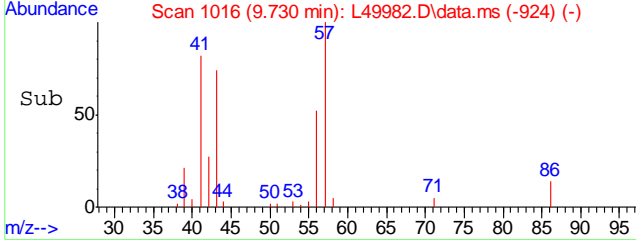
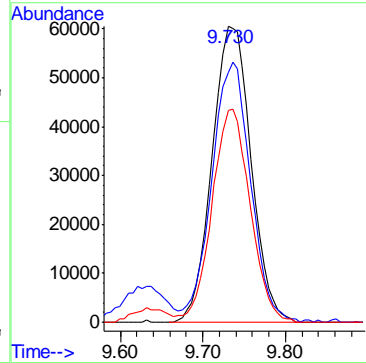
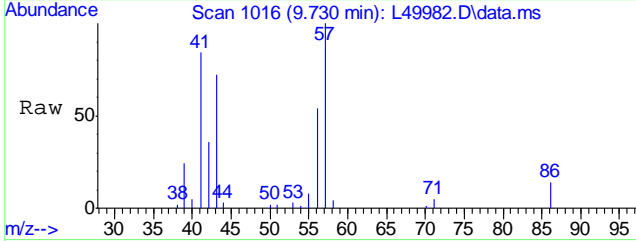
#11
 Acetone
 Concen: 50.01 ug/Kg m
 RT: 7.679 min Scan# 640
 Delta R.T. 0.044 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion: 58 Resp: 173785
 Ion Ratio Lower Upper
 58 100
 43 213.1 428.1 468.1#





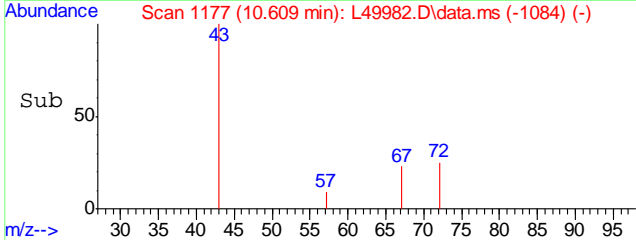
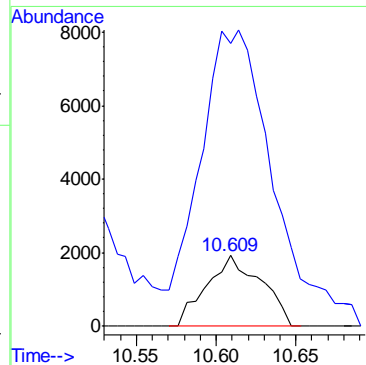
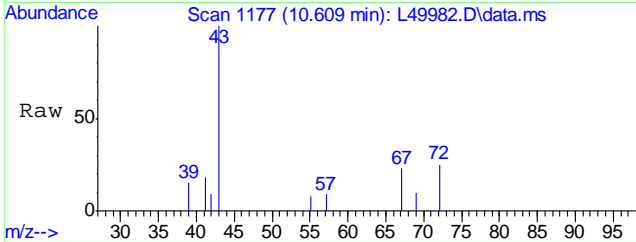
#24
Hexane
Concen: 50.59 ug/Kg
RT: 9.730 min Scan# 1016
Delta R.T. 0.000 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

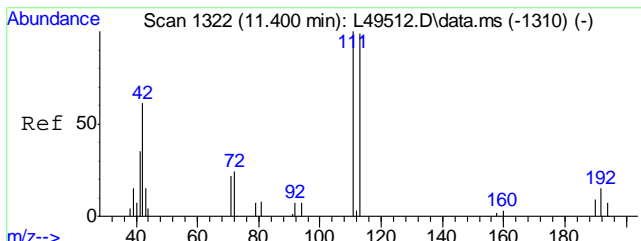
Tgt Ion	Resp	Lower	Upper
57	1948175		
41	87.7	73.8	110.8
43	70.3	56.6	84.8



#30
2-Butanone (MEK)
Concen: 9.98 ug/Kg
RT: 10.609 min Scan# 1177
Delta R.T. 0.006 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

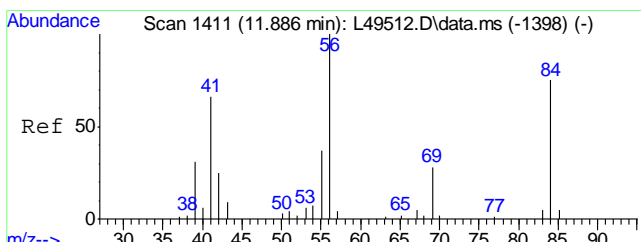
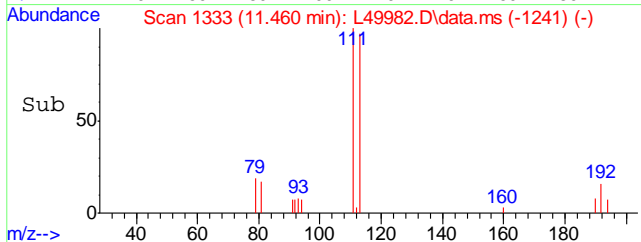
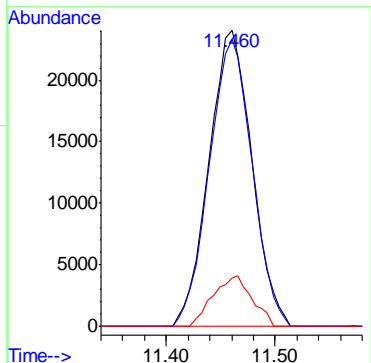
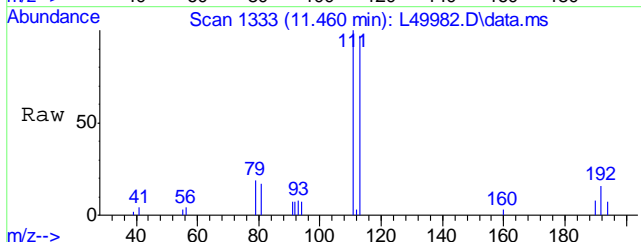
Tgt Ion	Resp	Lower	Upper
72	45662		
43	566.5	573.4	613.4#





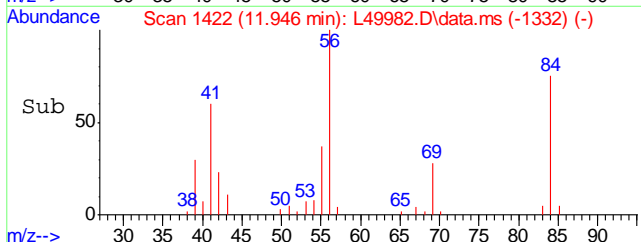
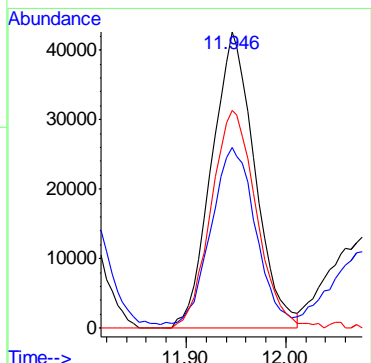
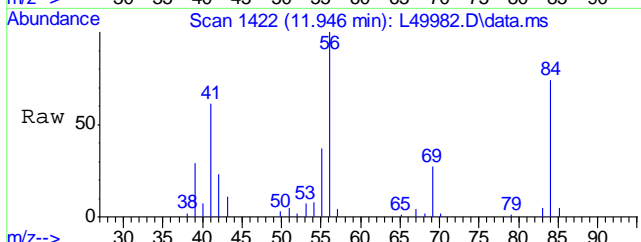
#36
 Dibromofluoromethane
 Concen: 18.03 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

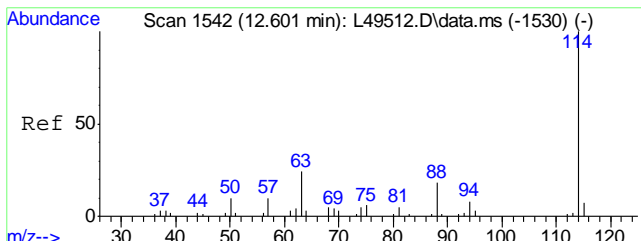
Tgt Ion	Resp	Lower	Upper
111	100		
113	96.9	78.6	118.6
192	15.5	0.0	34.1



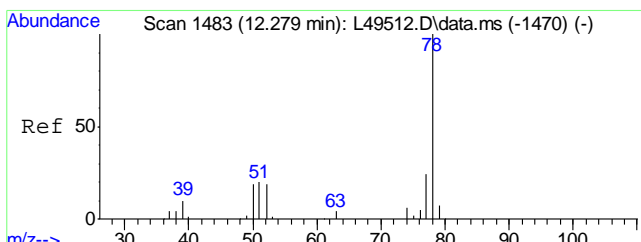
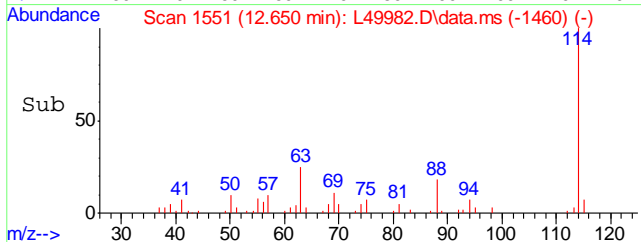
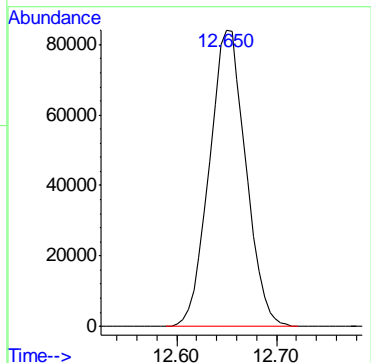
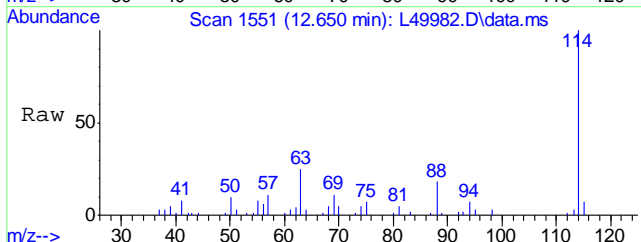
#38
 Cyclohexane
 Concen: 23.27 ug/Kg
 RT: 11.946 min Scan# 1422
 Delta R.T. -0.011 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

Tgt Ion	Resp	Lower	Upper
56	100		
41	60.8	53.7	80.5
84	77.0	60.5	90.7

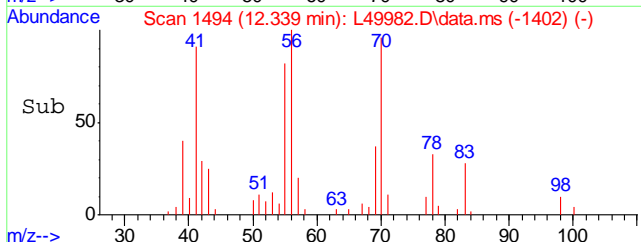
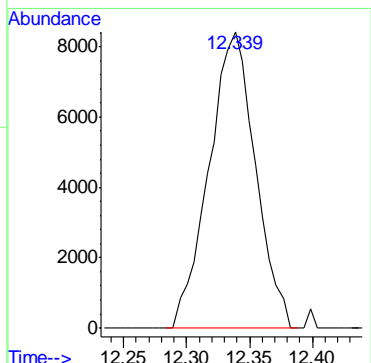
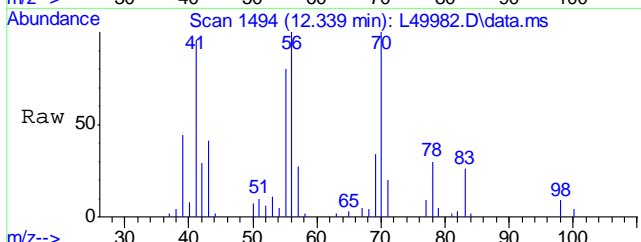


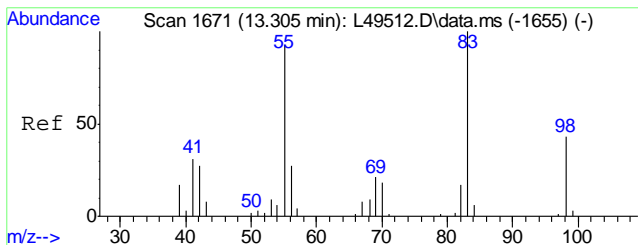


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion:114 Resp: 2132511



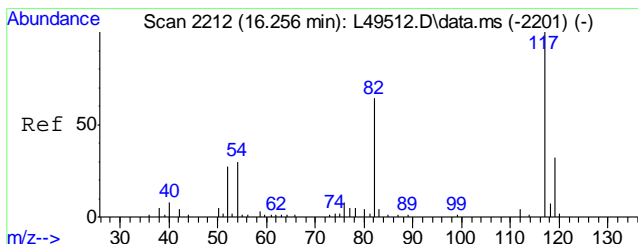
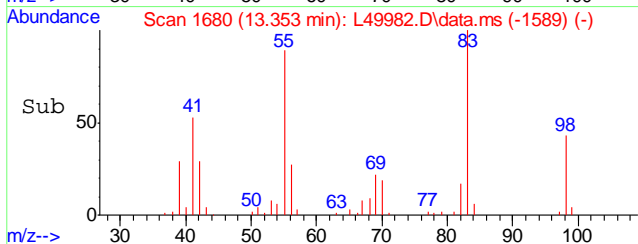
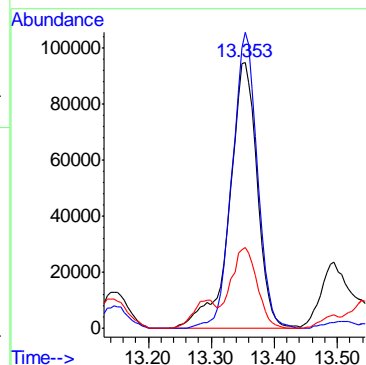
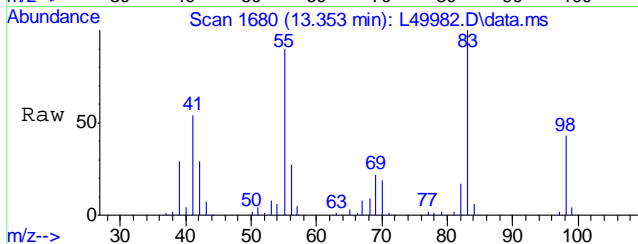
#45
 Benzene
 Concen: 1.35 ug/Kg
 RT: 12.339 min Scan# 1494
 Delta R.T. 0.000 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm
 Tgt Ion: 78 Resp: 215132





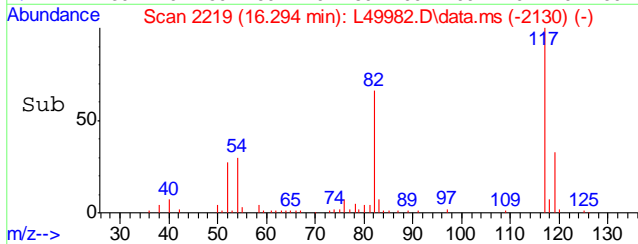
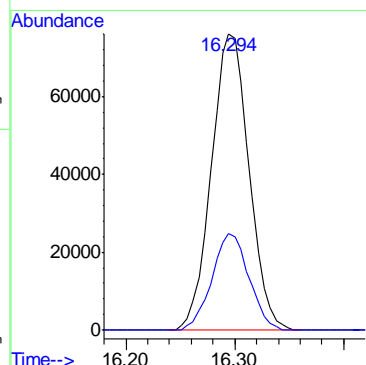
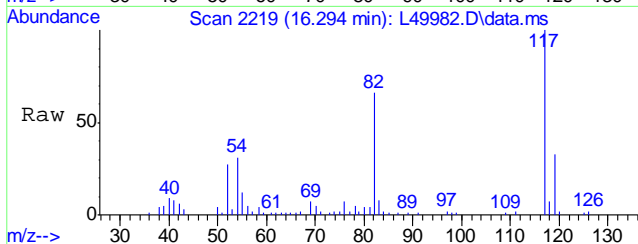
#48
Methylcyclohexane
Concen: 58.26 ug/Kg
RT: 13.353 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

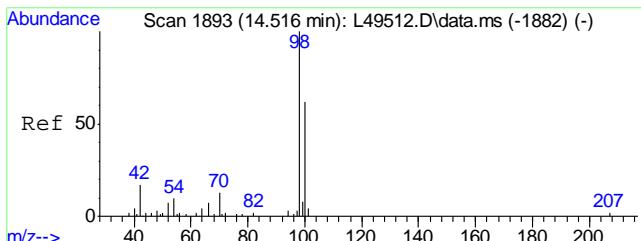
Tgt Ion: 55 Resp: 2909107
Ion Ratio Lower Upper
55 100
83 100.6 80.6 120.6
56 29.0 11.5 51.5



#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.294 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion: 117 Resp: 1822657
Ion Ratio Lower Upper
117 100
119 32.0 10.2 50.2

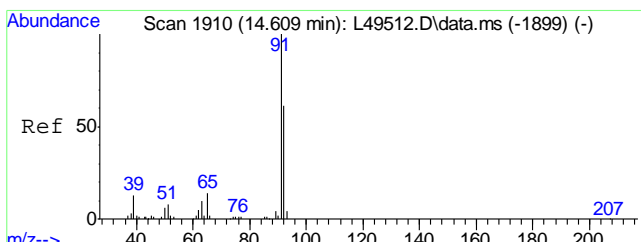
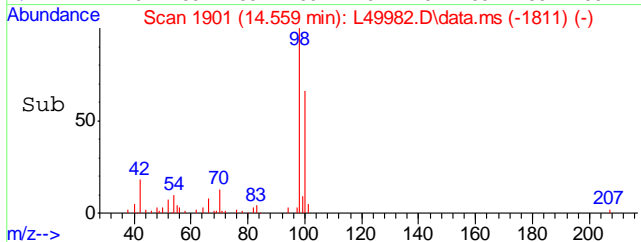
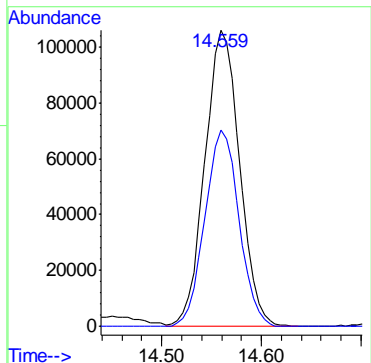
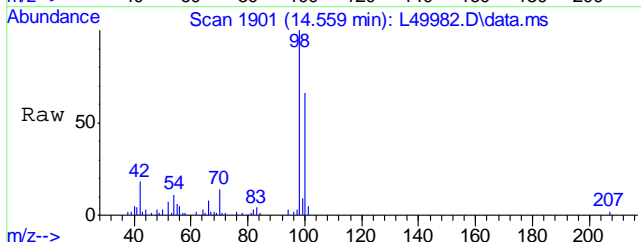




#56
Toluene-d8
Concen: 19.91 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.011 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion: 98 Resp: 2562816

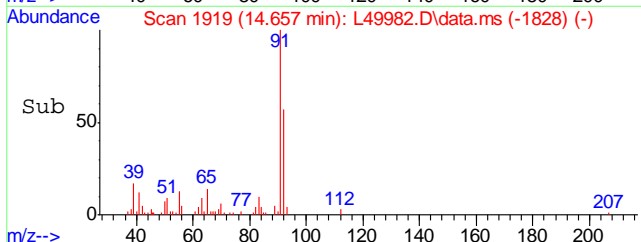
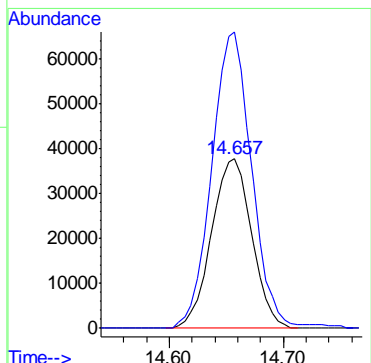
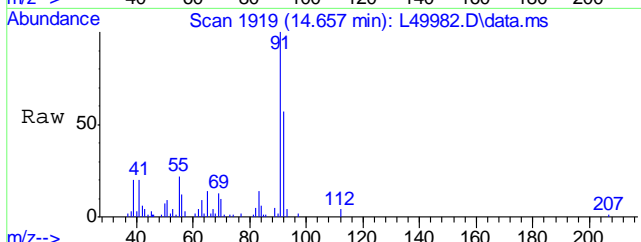
Ion	Ratio	Lower	Upper
98	100		
100	65.0	45.2	85.2

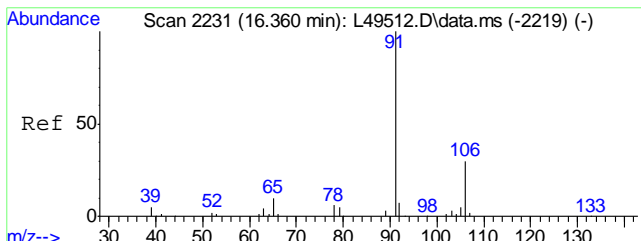


#57
Toluene
Concen: 10.17 ug/Kg
RT: 14.657 min Scan# 1919
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion: 92 Resp: 918854

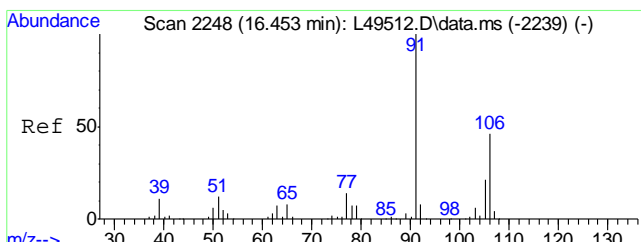
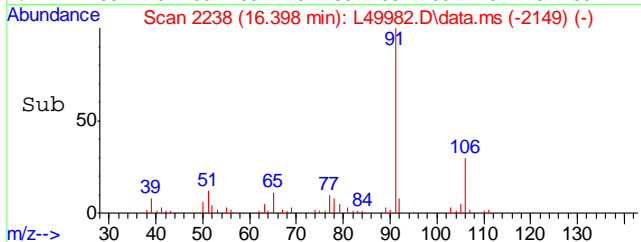
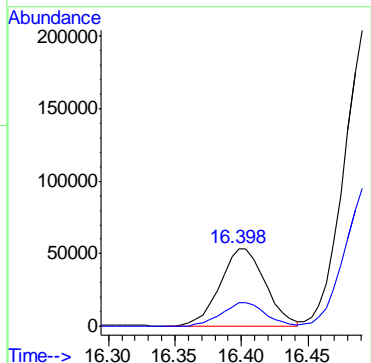
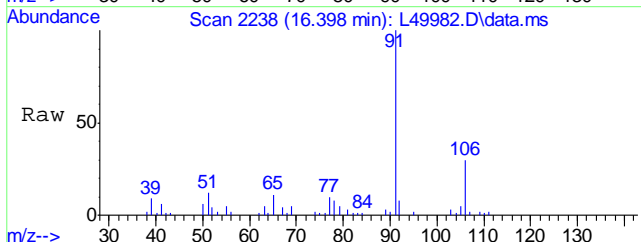
Ion	Ratio	Lower	Upper
92	100		
91	174.3	149.2	189.2





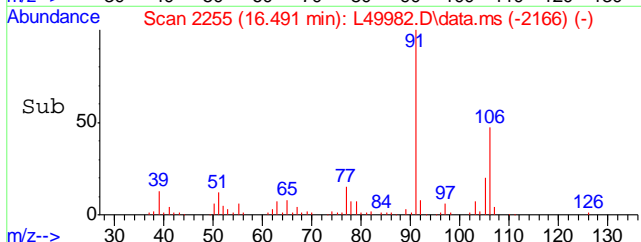
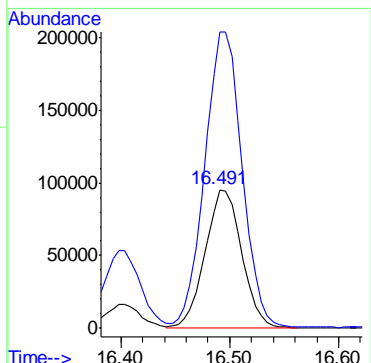
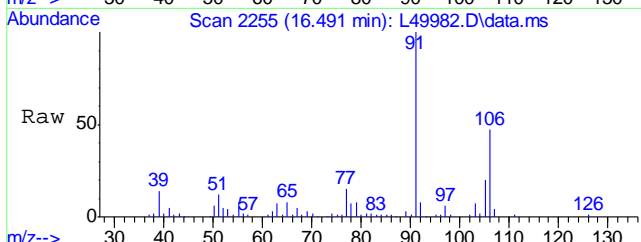
#67
Ethyl Benzene
Concen: 7.26 ug/Kg
RT: 16.398 min Scan# 2238
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

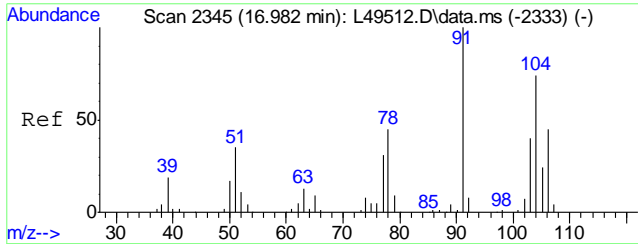
Tgt Ion: 91 Resp: 1278057
Ion Ratio Lower Upper
91 100
106 29.2 8.6 48.6



#68
Xylene, m+p
Concen: 35.57 ug/Kg
RT: 16.491 min Scan# 2255
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

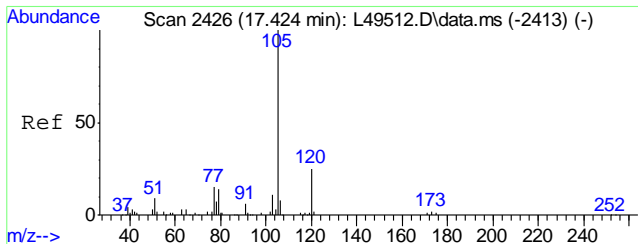
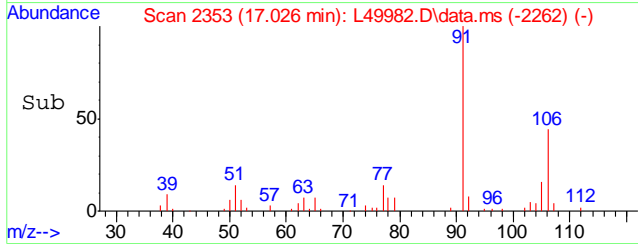
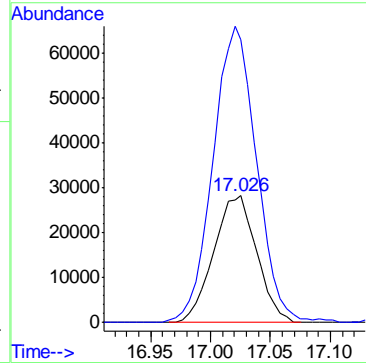
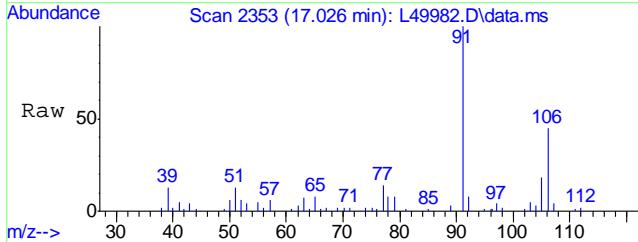
Tgt Ion: 106 Resp: 2221882
Ion Ratio Lower Upper
106 100
91 217.5 202.1 242.1





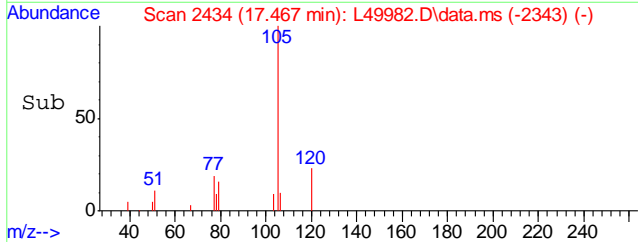
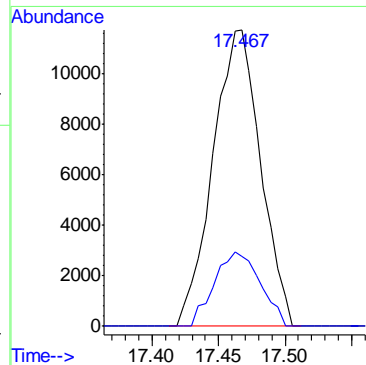
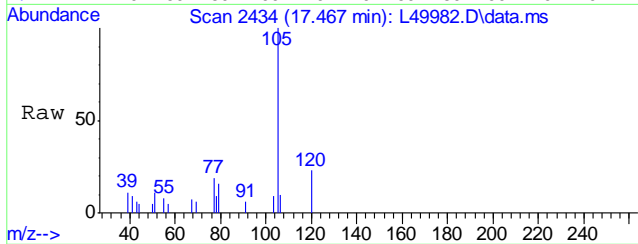
#69
Xylene, o
Concen: 11.00 ug/Kg
RT: 17.026 min Scan# 2353
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

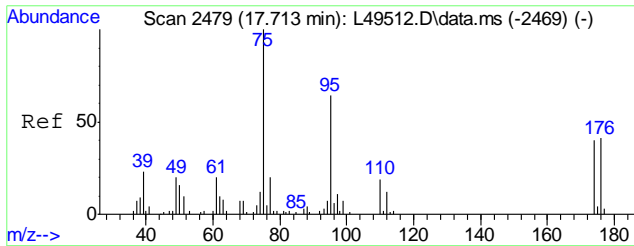
Tgt Ion	Ratio	Lower	Upper
106	100		
91	237.0	212.6	252.6



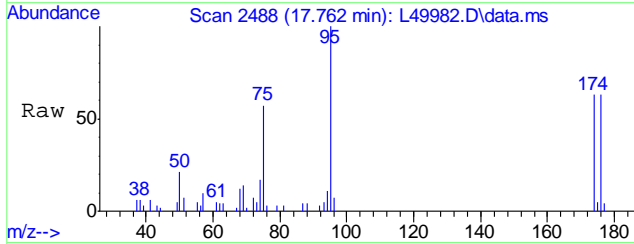
#73
Isopropylbenzene
Concen: 1.85 ug/Kg
RT: 17.467 min Scan# 2434
Delta R.T. -0.005 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.1	4.1	44.1

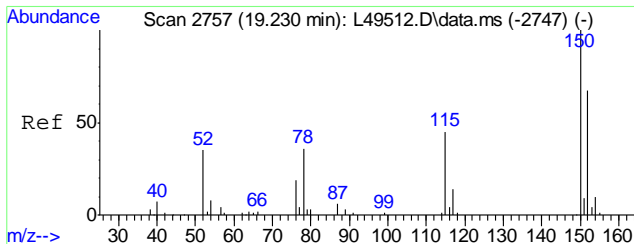
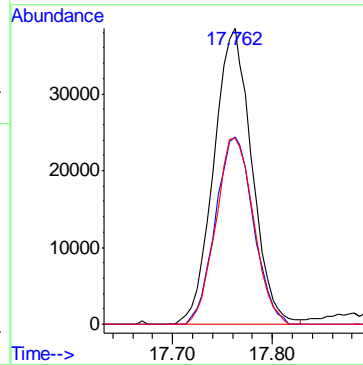
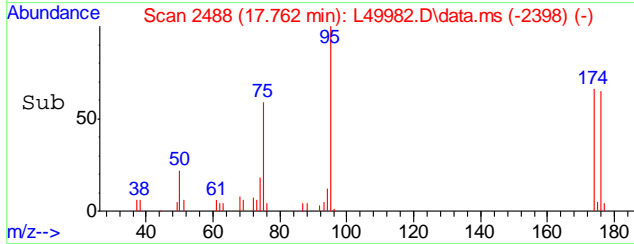




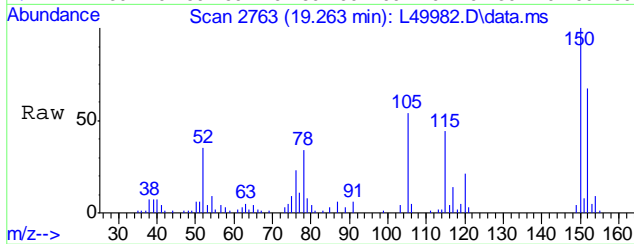
#74
 4-Bromofluorobenzene
 Concen: 19.06 ug/Kg
 RT: 17.762 min Scan# 2488
 Delta R.T. -0.011 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm



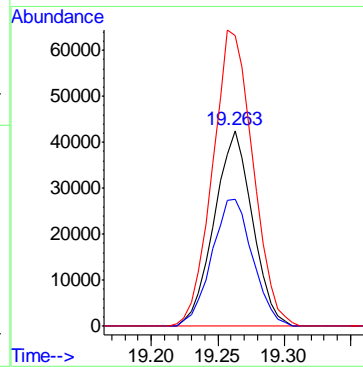
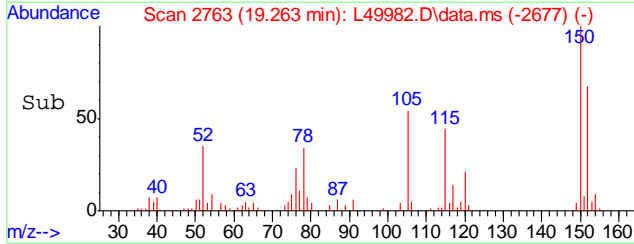
Tgt Ion: 95 Resp: 1019721
 Ion Ratio Lower Upper
 95 100
 174 63.2 41.6 81.6
 176 62.3 39.6 79.6

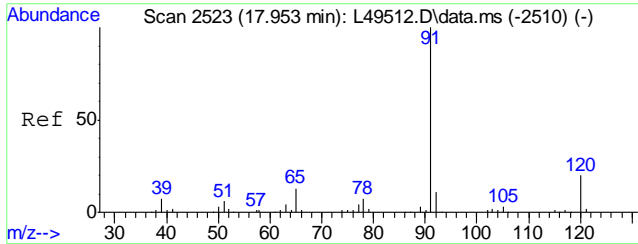


#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm



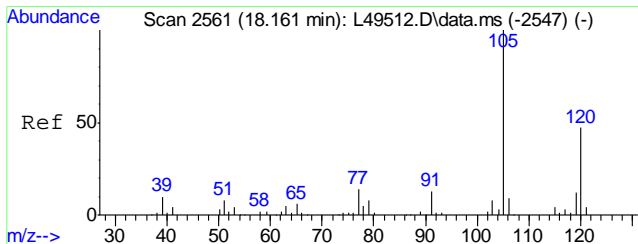
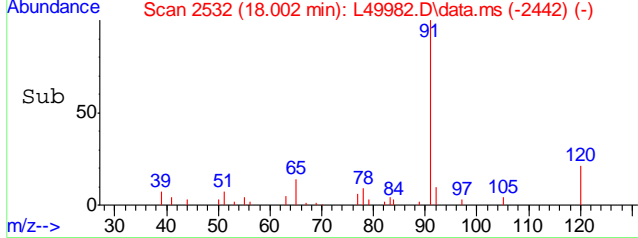
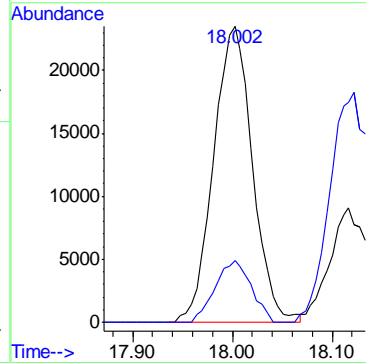
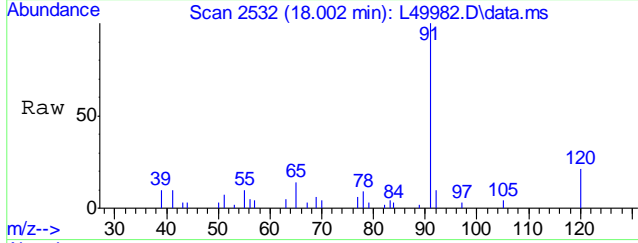
Tgt Ion: 152 Resp: 855408
 Ion Ratio Lower Upper
 152 100
 115 69.2 48.8 88.8
 150 159.7 174.3 214.3#





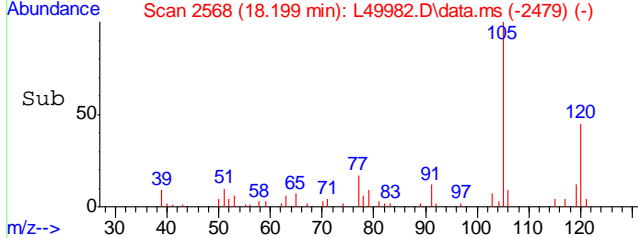
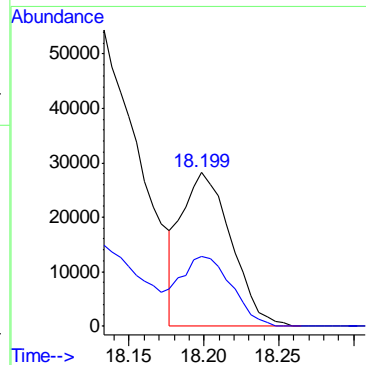
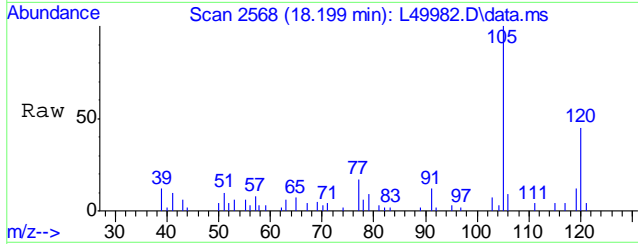
#79
 n-Propylbenzene
 Concen: 3.20 ug/Kg
 RT: 18.002 min Scan# 2532
 Delta R.T. -0.011 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

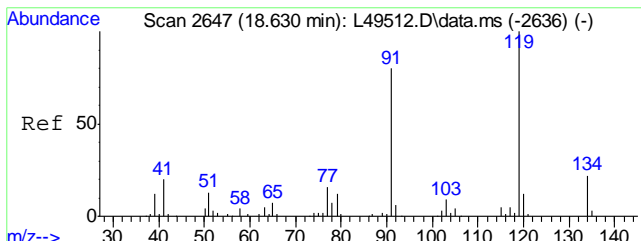
Tgt Ion: 91 Resp: 636675
 Ion Ratio Lower Upper
 91 100
 120 19.3 0.0 39.7



#81
 1,3,5-Trimethylbenzene
 Concen: 4.87 ug/Kg
 RT: 18.199 min Scan# 2568
 Delta R.T. -0.016 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

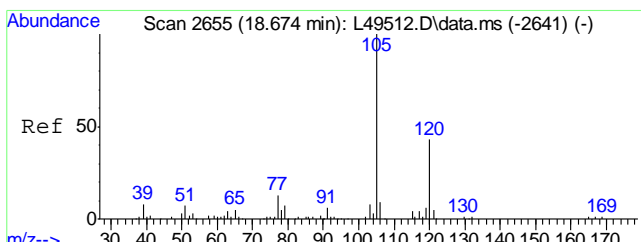
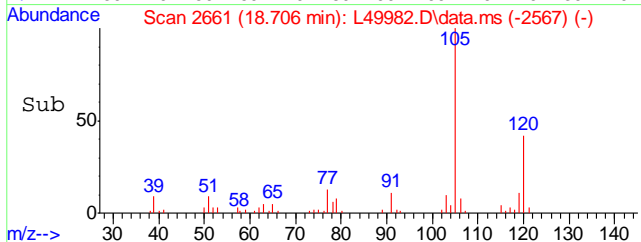
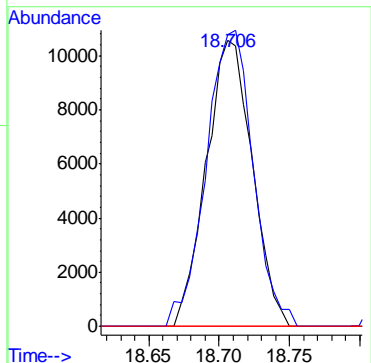
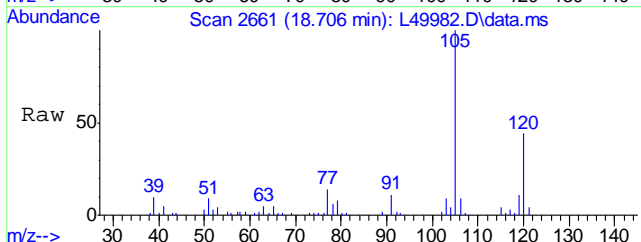
Tgt Ion: 105 Resp: 648114
 Ion Ratio Lower Upper
 105 100
 120 48.7 24.8 64.8





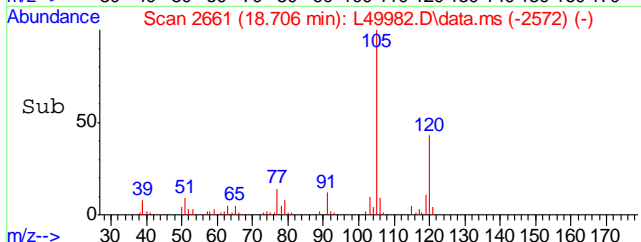
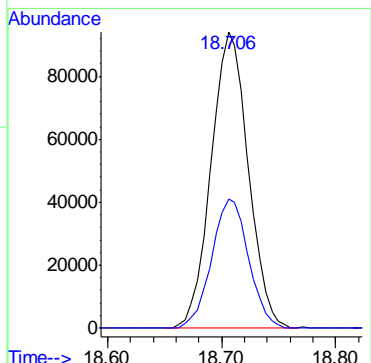
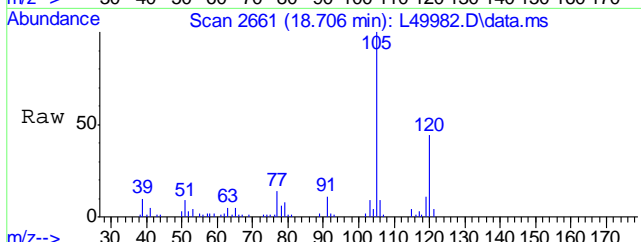
#84
tert-Butylbenzene
Concen: 1.87 ug/Kg
RT: 18.706 min Scan# 2661
Delta R.T. 0.014 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

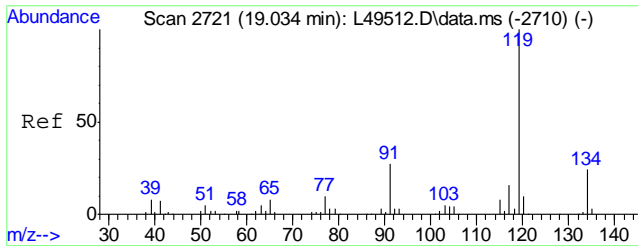
Tgt Ion	Resp	Lower	Upper
119	239580	100	
91	105.4	64.0	104.0#
134	0.0	0.0	38.8



#86
1,2,4-Trimethylbenzene
Concen: 15.00 ug/Kg
RT: 18.706 min Scan# 2661
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

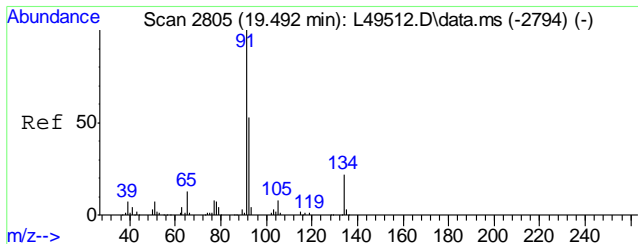
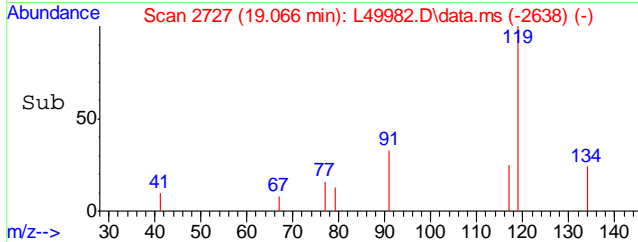
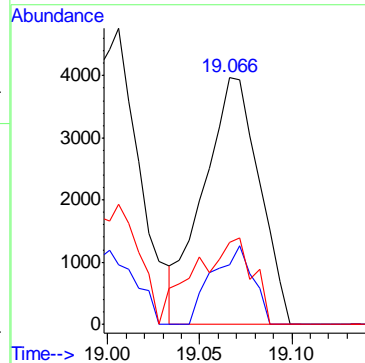
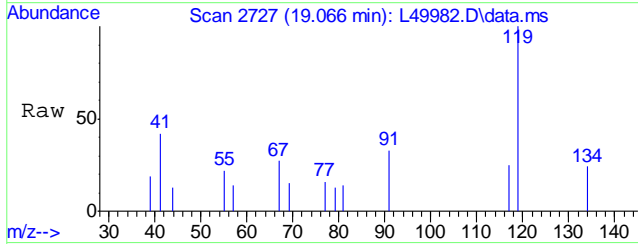
Tgt Ion	Resp	Lower	Upper
105	2129390	100	
120	43.3	29.7	69.7





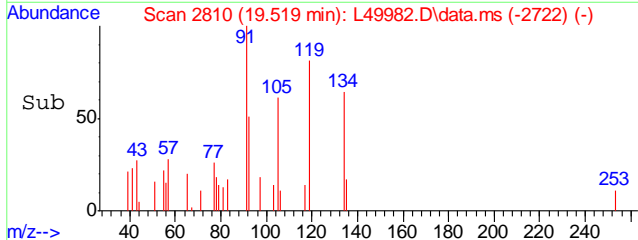
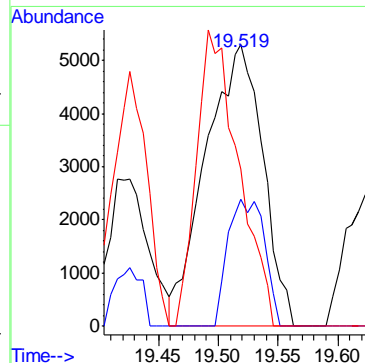
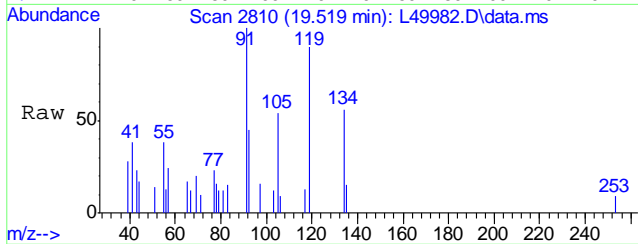
#88
 p-Isopropyltoluene
 Concen: 0.61 ug/Kg
 RT: 19.066 min Scan# 2727
 Delta R.T. -0.016 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

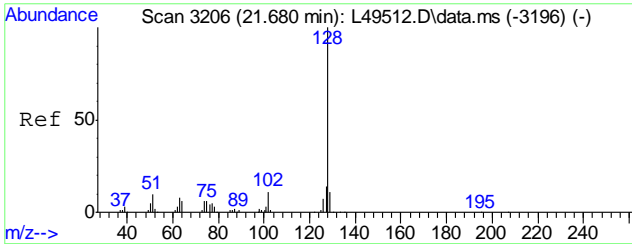
Tgt Ion	Resp	Lower	Upper
119	83362	100	
134	23.0	3.9	43.9
91	36.5	8.5	48.5



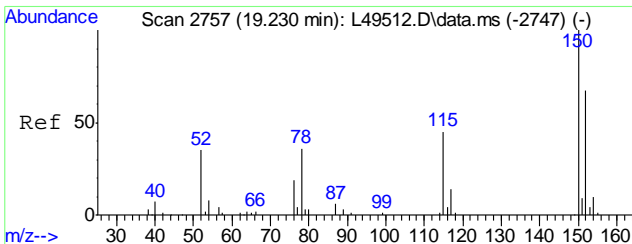
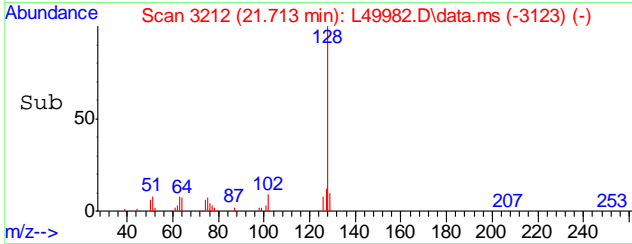
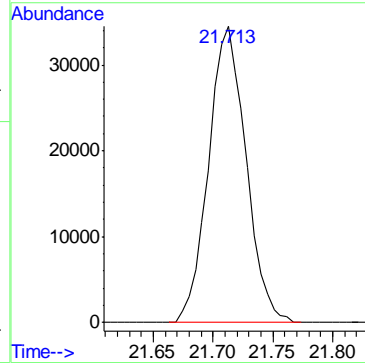
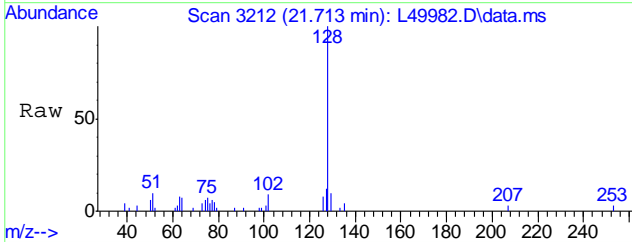
#92
 n-Butylbenzene
 Concen: 1.19 ug/Kg
 RT: 19.519 min Scan# 2810
 Delta R.T. -0.022 min
 Lab File: L49982.D
 Acq: 12 Jul 2016 5:42 pm

Tgt Ion	Resp	Lower	Upper
91	175100	100	
92	29.0	35.1	75.1#
134	77.4	1.1	41.1#





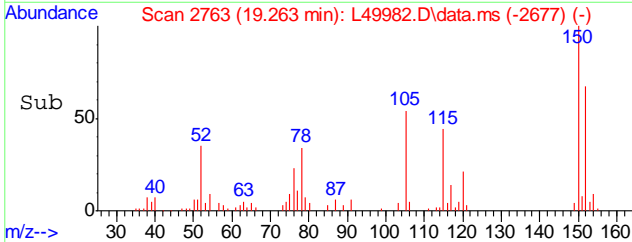
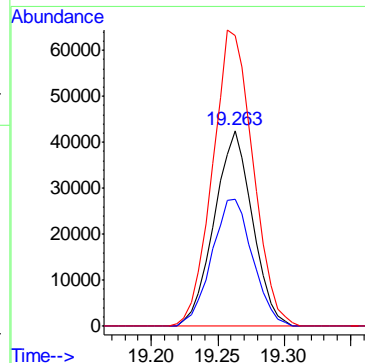
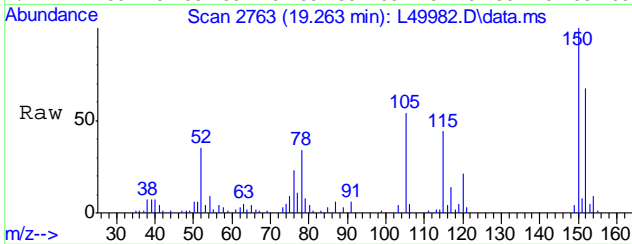
#97
Naphthalene
Concen: 5.75 ug/Kg
RT: 21.713 min Scan# 3212
Delta R.T. -0.016 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm
Tgt Ion:128 Resp: 746443

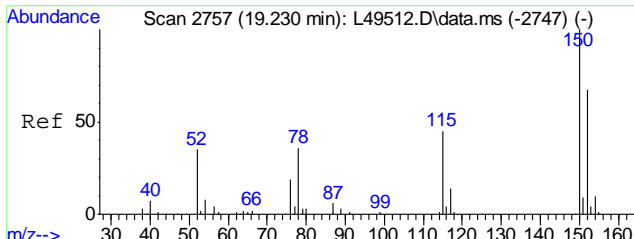


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm

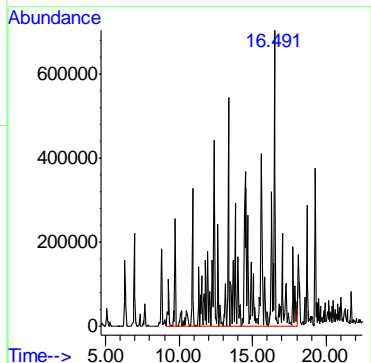
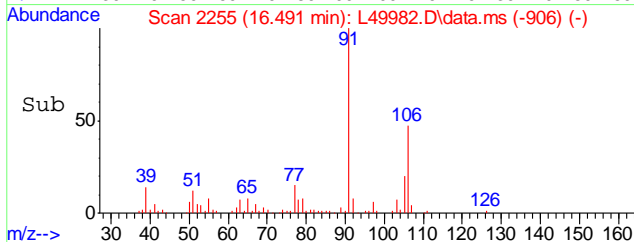
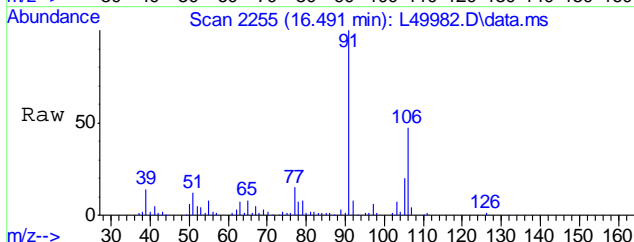
Tgt Ion:152 Resp: 855408

Ion	Ratio	Lower	Upper
152	100		
115	69.2	41.6	81.6
150	159.7	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 1290.51 ug/Kg m
RT: 16.491 min Scan# 2255
Delta R.T. 1.965 min
Lab File: L49982.D
Acq: 12 Jul 2016 5:42 pm
Tgt Ion:TIC Resp:302378278



6.1.18
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49983.D
 Acq On : 12 Jul 2016 6:11 pm
 Operator : johannat
 Sample : C46435-12R
 Misc : MS1912,VL1499,5.35,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 11:01:36 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

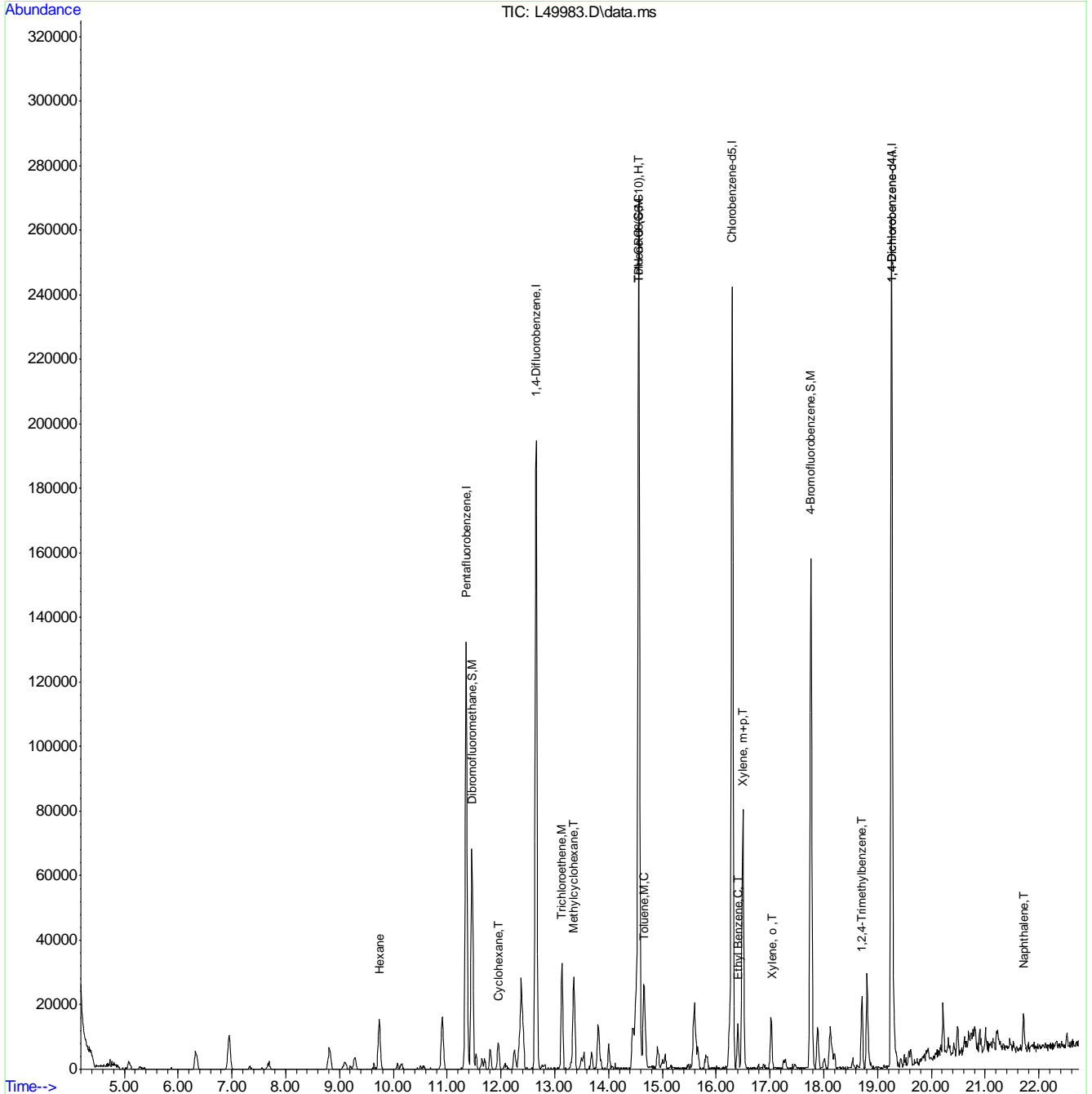
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.357	168	1181185	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.655	114	2035239	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1768575	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	818266	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	818266	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	613623	17.35	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	86.75%		
56) Toluene-d8	14.565	98	2416138	19.34	ug/Kg	0.00
Spiked Amount	20.000	Range 87 - 113	Recovery =	96.70%		
74) 4-Bromofluorobenzene	17.762	95	932625	17.97	ug/Kg	-0.01
Spiked Amount	20.000	Range 81 - 115	Recovery =	89.85%		
Target Compounds						
						Qvalue
24) Hexane	9.736	57	116825	3.13	ug/Kg	99
38) Cyclohexane	11.957	56	67657	1.27	ug/Kg	93
46) Trichloroethene	13.135	95	147783	3.92	ug/Kg	91
48) Methylcyclohexane	13.354	55	163817	3.44	ug/Kg	97
57) Toluene	14.652	92	141265	1.61	ug/Kg	96
67) Ethyl Benzene	16.404	91	164853	0.96	ug/Kg	98
68) Xylene, m+p	16.502	106	296265	4.89	ug/Kg	99
69) Xylene, o	17.031	106	66900	1.08	ug/Kg#	86
86) 1,2,4-Trimethylbenzene	18.706	105	199897	1.47	ug/Kg	90
97) Naphthalene	21.713	128	149259	1.20	ug/Kg	100
100) TPH-GRO (C6-C10)	14.565	TIC	39474797m	111.45	ug/Kg	

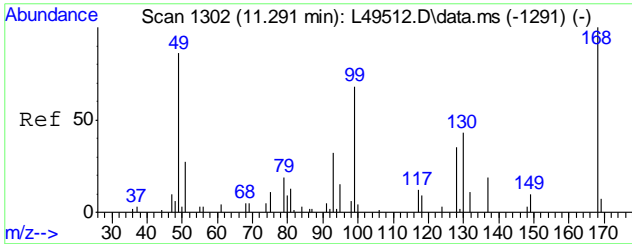
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

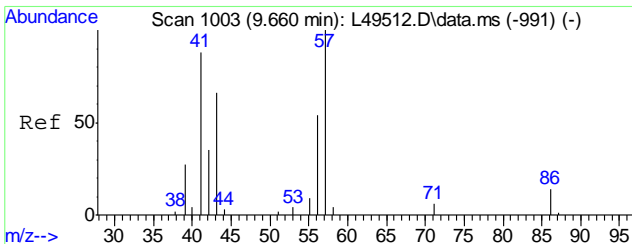
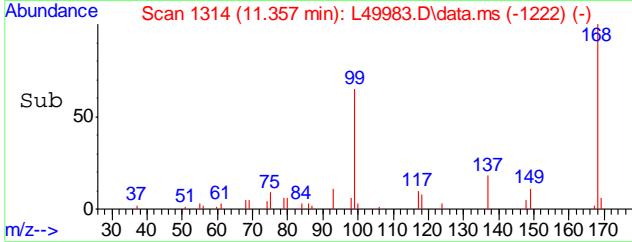
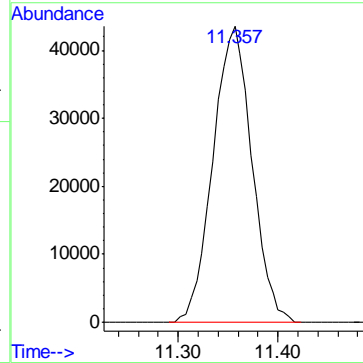
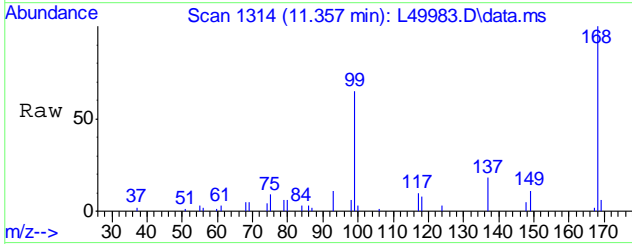
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49983.D
Acq On : 12 Jul 2016 6:11 pm
Operator : johannat
Sample : C46435-12R
Misc : MS1912,VL1499,5.35,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 11:01:36 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration



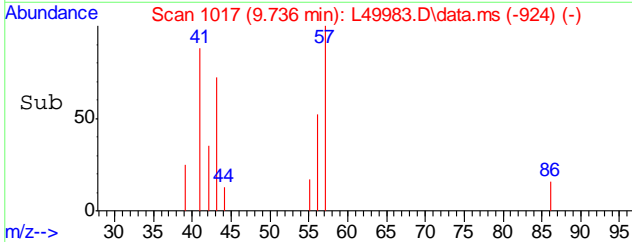
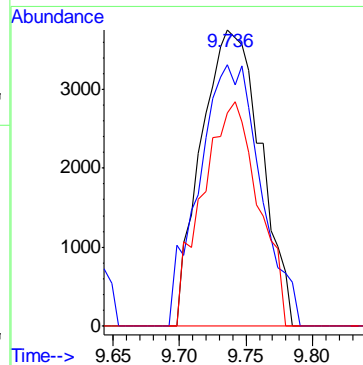
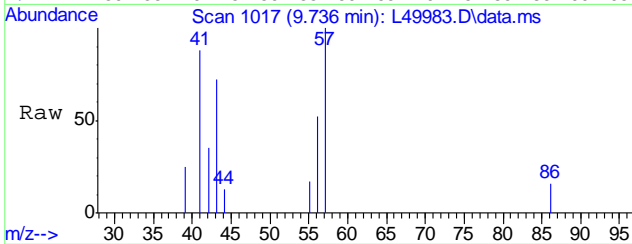


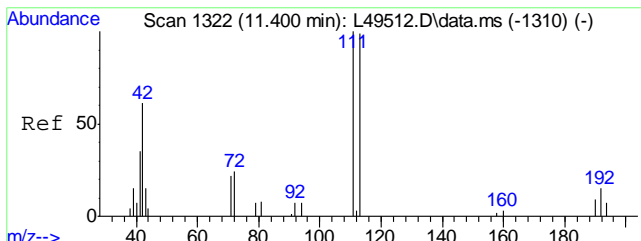
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.357 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm
 Tgt Ion:168 Resp: 1181185



#24
 Hexane
 Concen: 3.13 ug/Kg
 RT: 9.736 min Scan# 1017
 Delta R.T. 0.006 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm
 Tgt Ion: 57 Resp: 116825

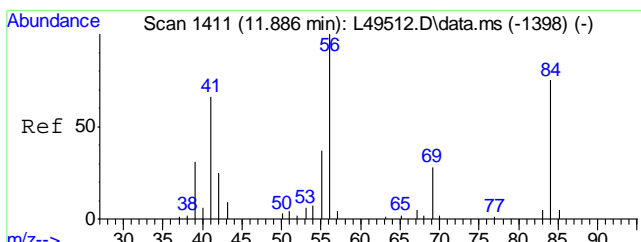
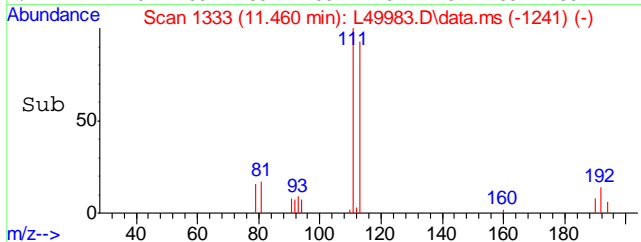
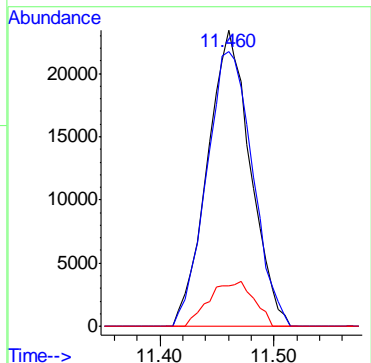
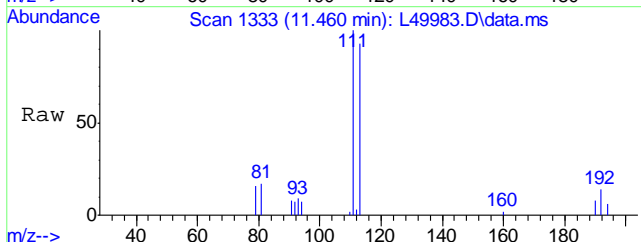
Ion	Ratio	Lower	Upper
57	100		
41	91.5	73.8	110.8
43	71.4	56.6	84.8





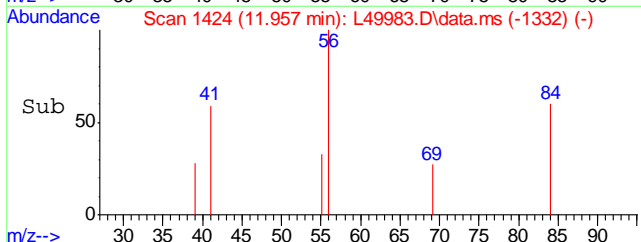
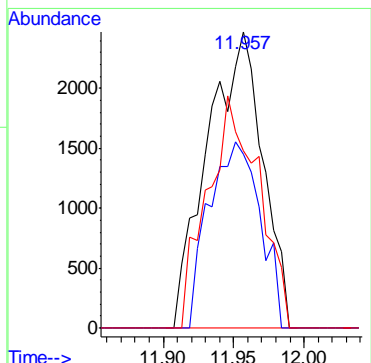
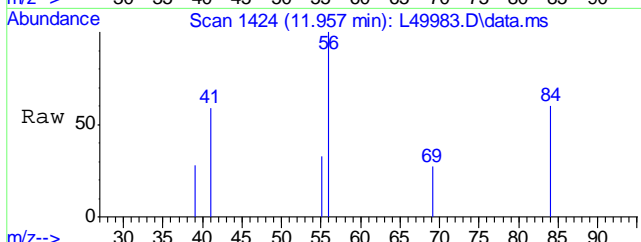
#36
 Dibromofluoromethane
 Concen: 17.35 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

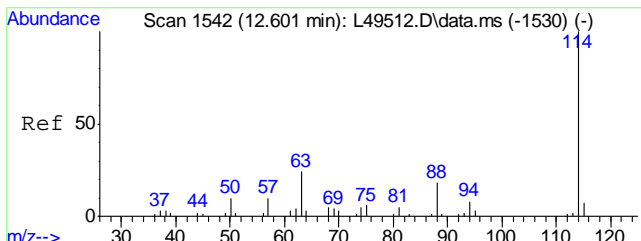
Tgt Ion	Resp	Lower	Upper
111	613623		
111	100		
113	99.4	78.6	118.6
192	15.7	0.0	34.1



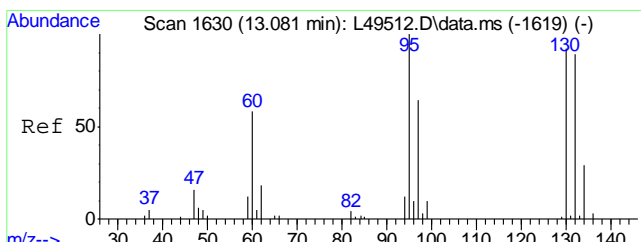
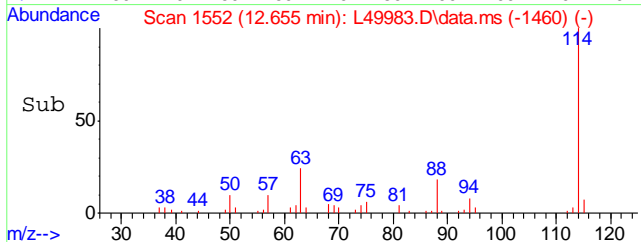
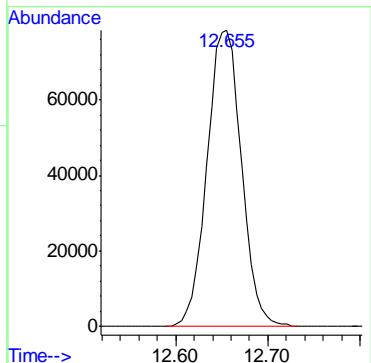
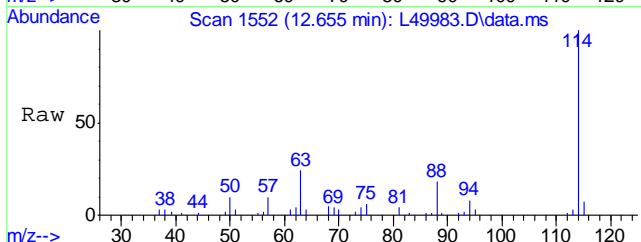
#38
 Cyclohexane
 Concen: 1.27 ug/Kg
 RT: 11.957 min Scan# 1424
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

Tgt Ion	Resp	Lower	Upper
56	67657		
56	100		
41	58.2	53.7	80.5
84	72.6	60.5	90.7

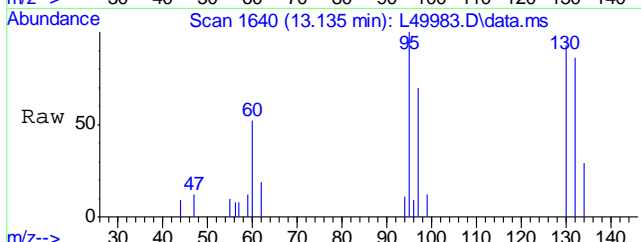




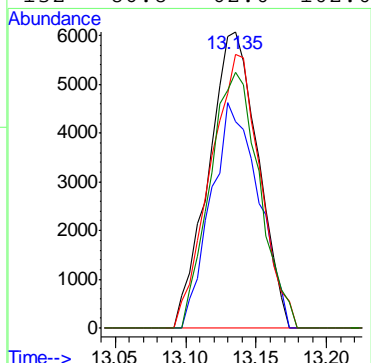
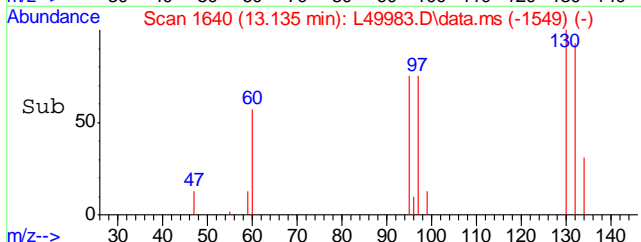
#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.655 min Scan# 1552
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm
 Tgt Ion:114 Resp: 2035239

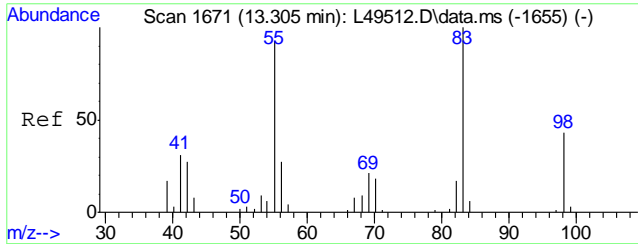


#46
 Trichloroethene
 Concen: 3.92 ug/Kg
 RT: 13.135 min Scan# 1640
 Delta R.T. -0.005 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm
 Tgt Ion: 95 Resp: 147783



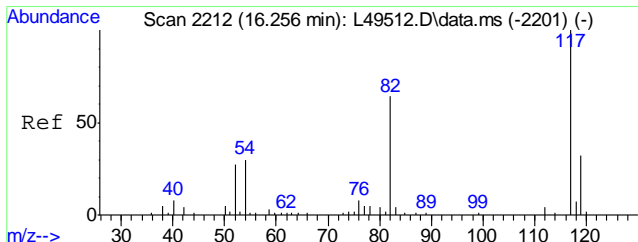
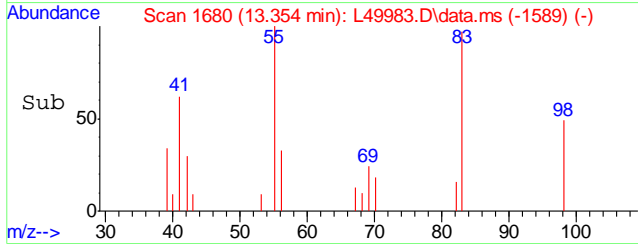
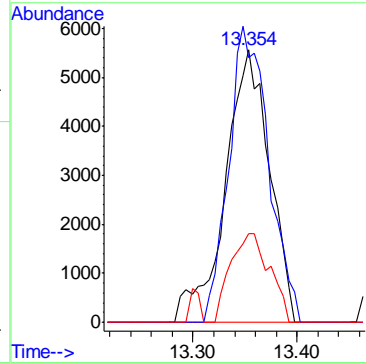
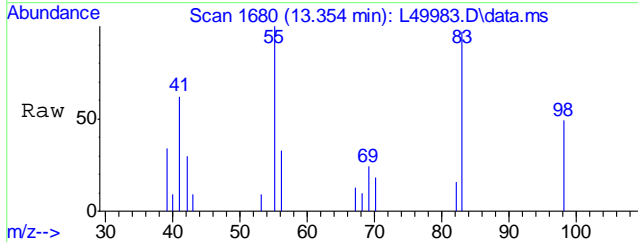
Ion	Ratio	Lower	Upper
95	100		
97	73.8	43.5	83.5
130	93.7	65.1	105.1
132	86.8	62.0	102.0





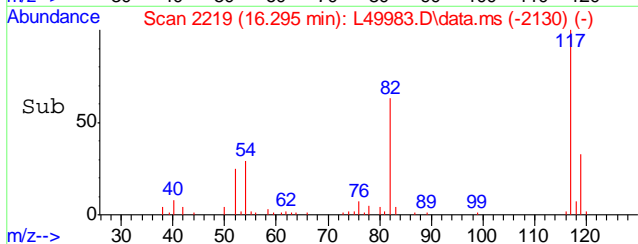
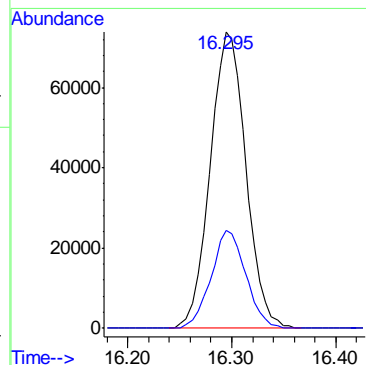
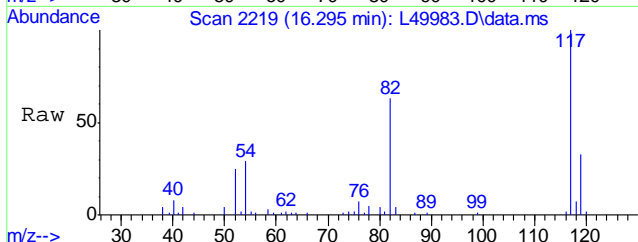
#48
Methylcyclohexane
Concen: 3.44 ug/Kg
RT: 13.354 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

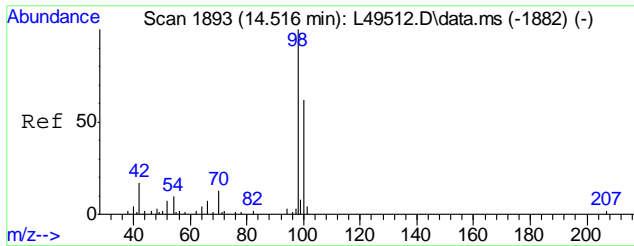
Tgt Ion	Resp	Lower	Upper
55	163817		
83	98.3	80.6	120.6
56	28.9	11.5	51.5



#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

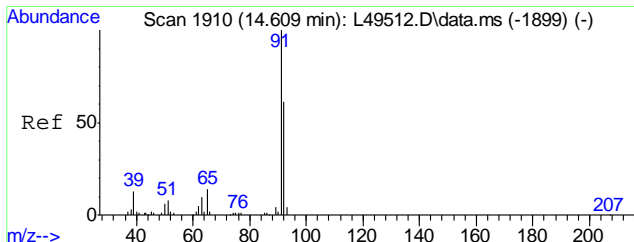
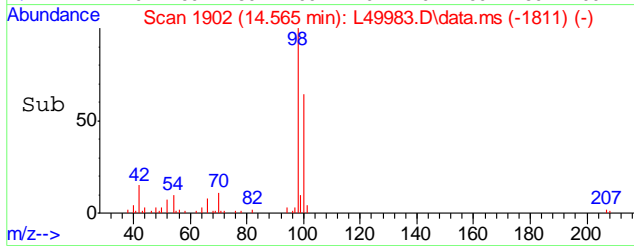
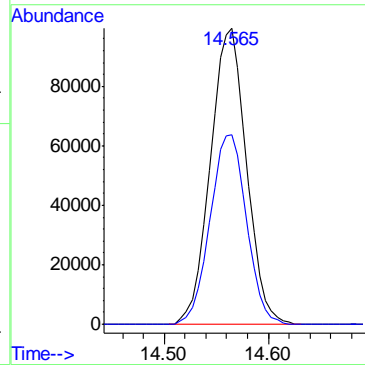
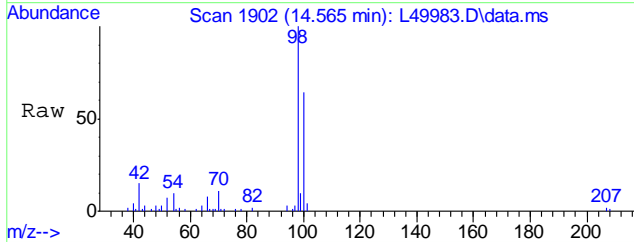
Tgt Ion	Resp	Lower	Upper
117	1768575		
119	31.9	10.2	50.2





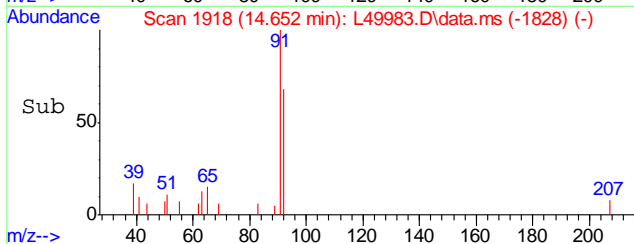
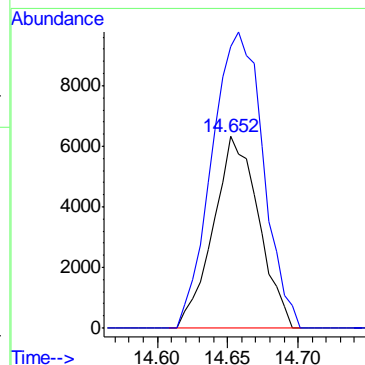
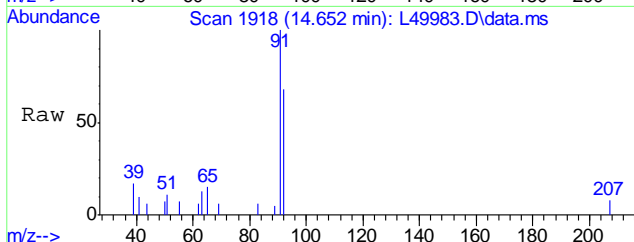
#56
 Toluene-d8
 Concen: 19.34 ug/Kg
 RT: 14.565 min Scan# 1902
 Delta R.T. -0.005 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

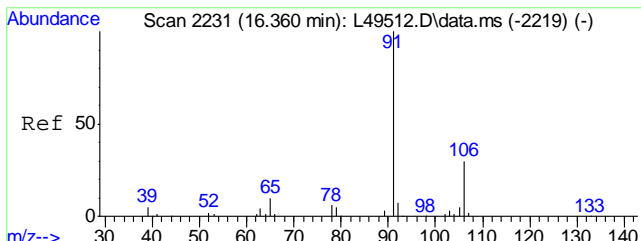
Tgt Ion: 98 Resp: 2416138
 Ion Ratio Lower Upper
 98 100
 100 64.7 45.2 85.2



#57
 Toluene
 Concen: 1.61 ug/Kg
 RT: 14.652 min Scan# 1918
 Delta R.T. -0.010 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

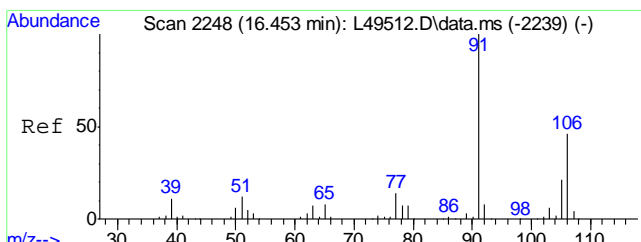
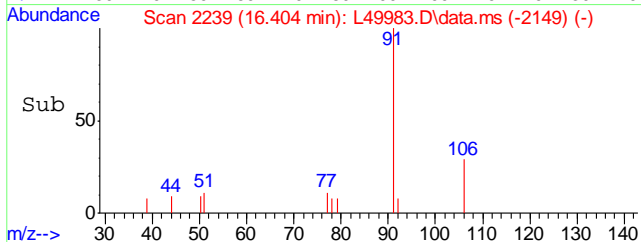
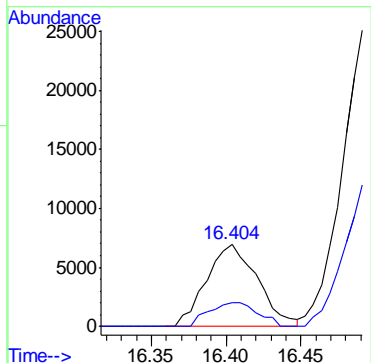
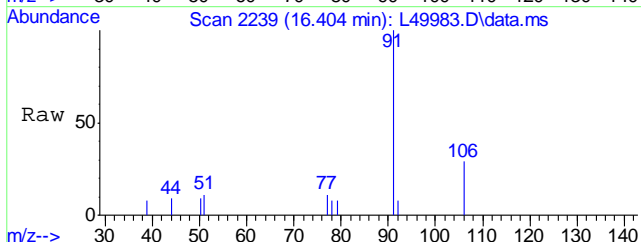
Tgt Ion: 92 Resp: 141265
 Ion Ratio Lower Upper
 92 100
 91 174.9 149.2 189.2





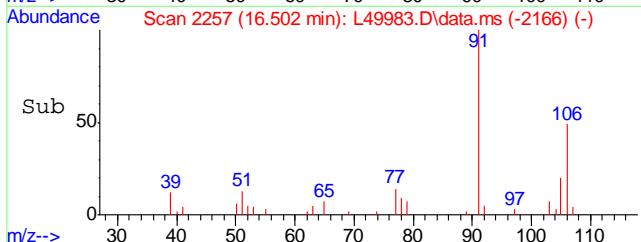
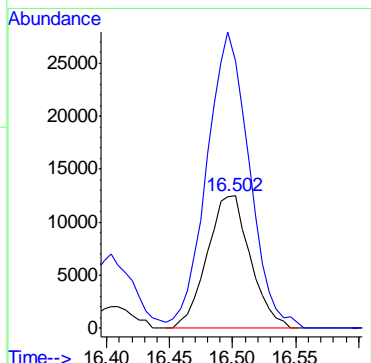
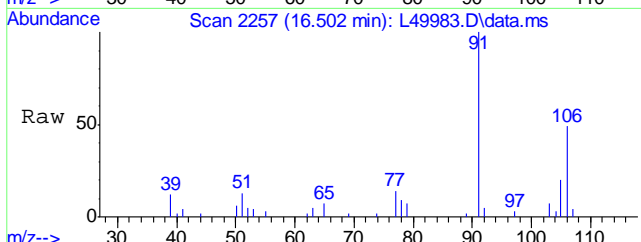
#67
Ethyl Benzene
Concen: 0.96 ug/Kg
RT: 16.404 min Scan# 2239
Delta R.T. -0.010 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

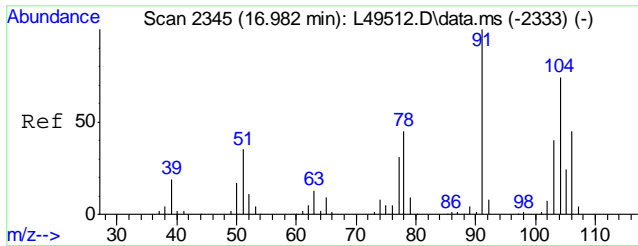
Tgt Ion	Resp	Lower	Upper
91	164853	100	
106	27.5	8.6	48.6



#68
Xylene, m+p
Concen: 4.89 ug/Kg
RT: 16.502 min Scan# 2257
Delta R.T. -0.005 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

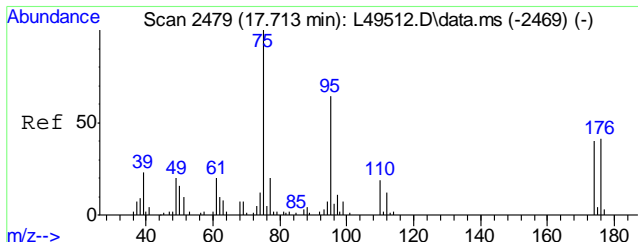
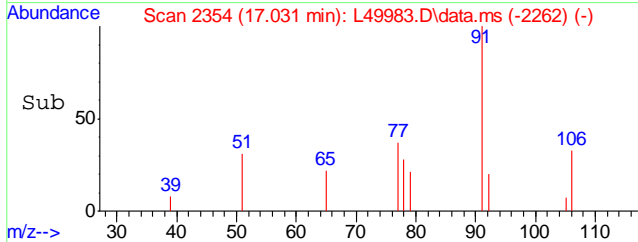
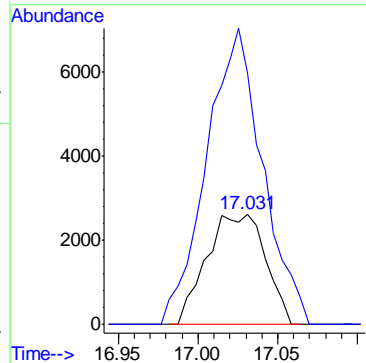
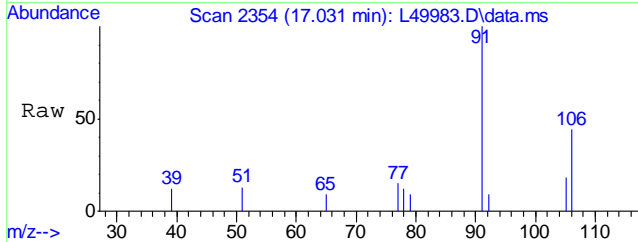
Tgt Ion	Resp	Lower	Upper
106	296265	100	
91	220.7	202.1	242.1





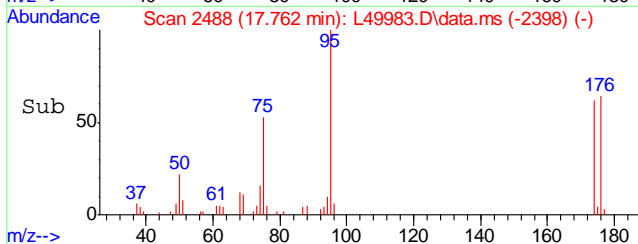
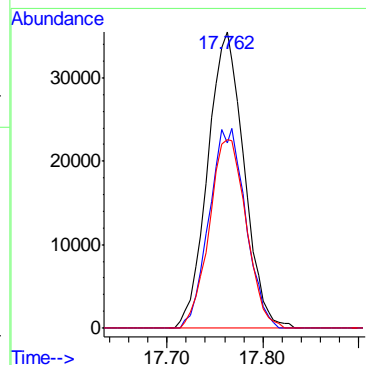
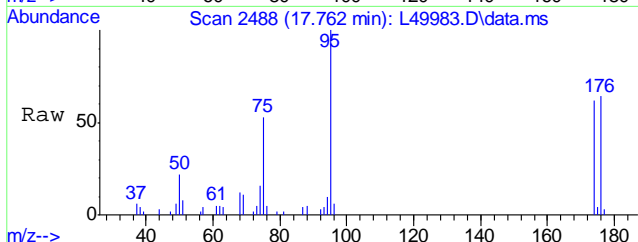
#69
Xylene, o
Concen: 1.08 ug/Kg
RT: 17.031 min Scan# 2354
Delta R.T. 0.000 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

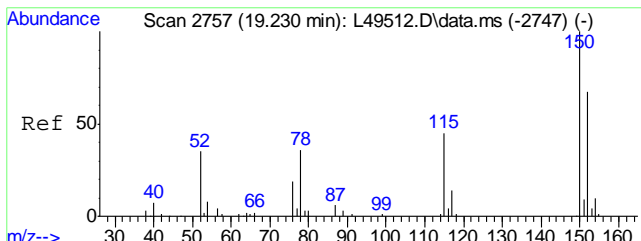
Tgt Ion	Resp	Lower	Upper
106	66900		
106	100		
91	256.5	212.6	252.6#



#74
4-Bromofluorobenzene
Concen: 17.97 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.010 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

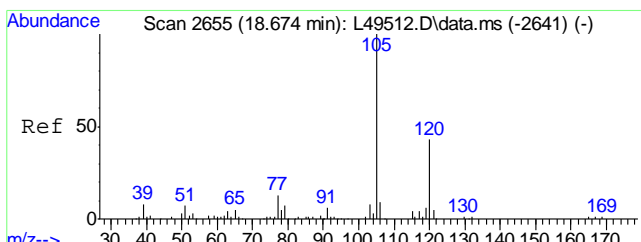
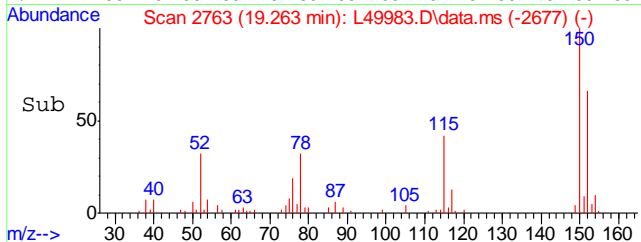
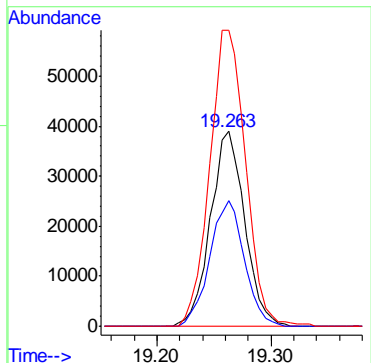
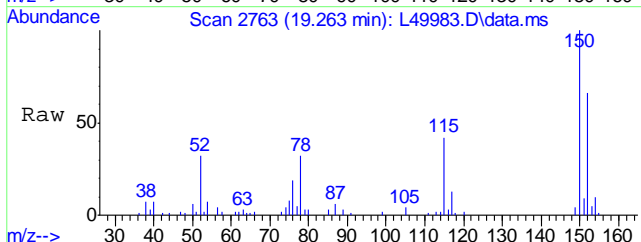
Tgt Ion	Resp	Lower	Upper
95	932625		
95	100		
174	67.8	41.6	81.6
176	64.8	39.6	79.6





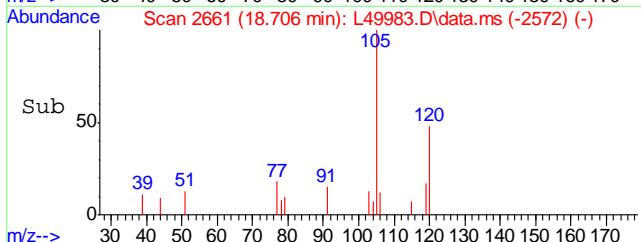
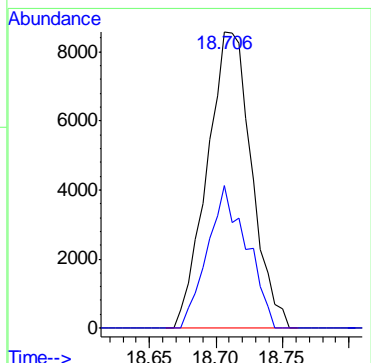
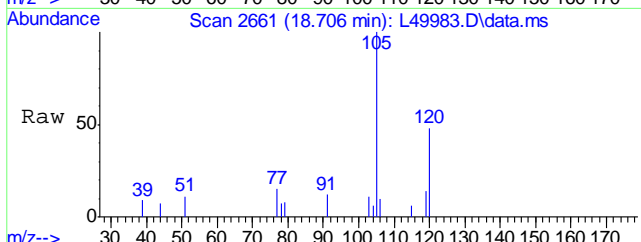
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

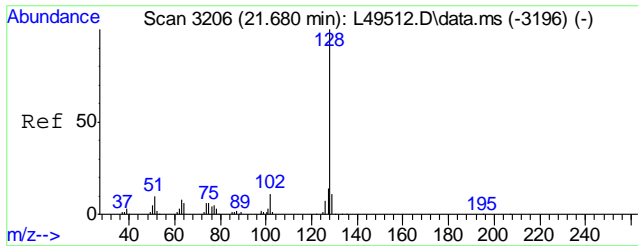
Tgt Ion	Resp	Lower	Upper
152	100		
115	64.8	48.8	88.8
150	159.0	174.3	214.3#



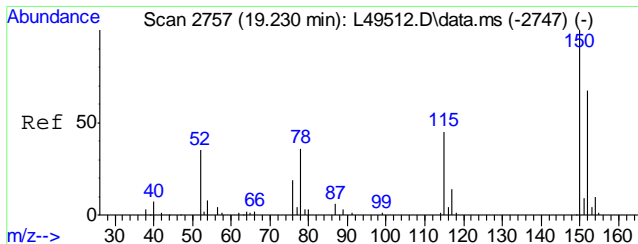
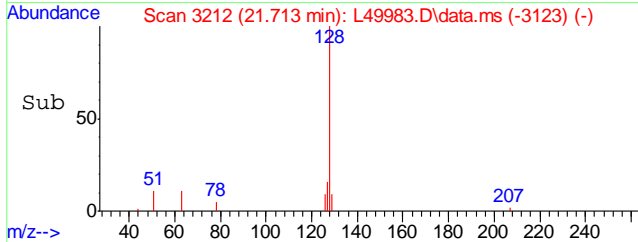
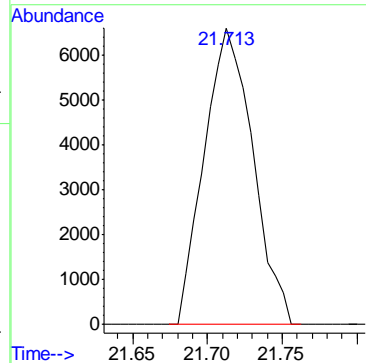
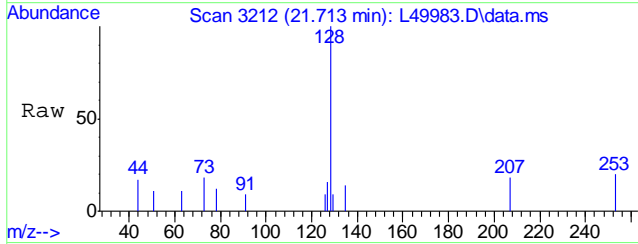
#86
 1,2,4-Trimethylbenzene
 Concen: 1.47 ug/Kg
 RT: 18.706 min Scan# 2661
 Delta R.T. -0.016 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	42.6	29.7	69.7

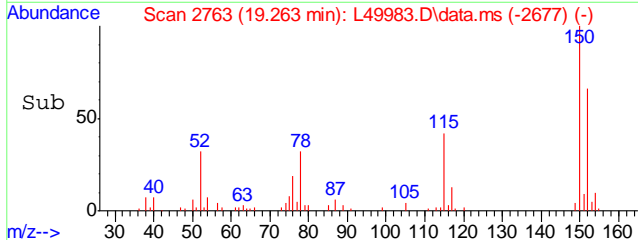
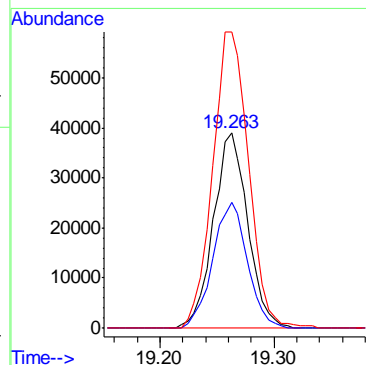
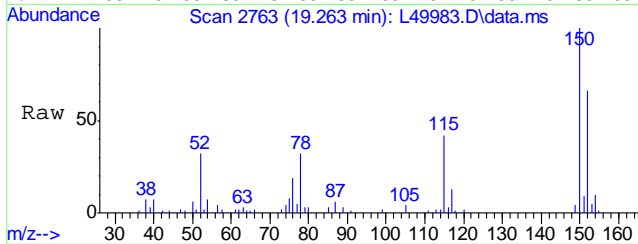


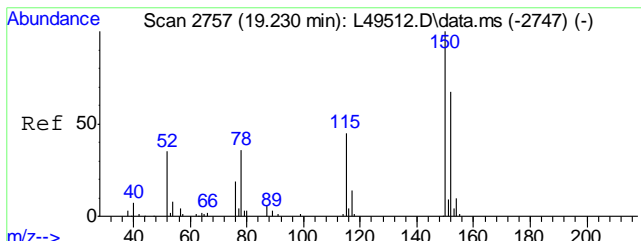


#97
Naphthalene
Concen: 1.20 ug/Kg
RT: 21.713 min Scan# 3212
Delta R.T. -0.016 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm
Tgt Ion:128 Resp: 149259

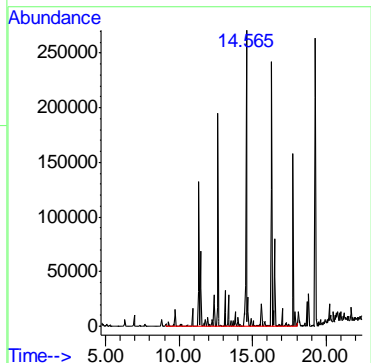
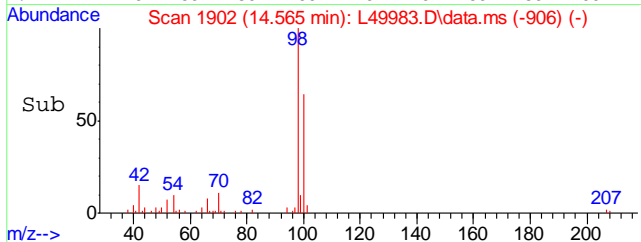
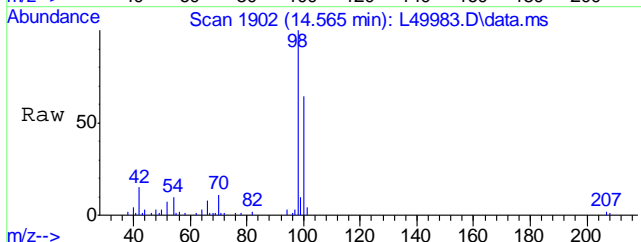


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm
Tgt Ion:152 Resp: 818266
Ion Ratio Lower Upper
152 100
115 64.8 41.6 81.6
150 159.0 176.9 216.9#





#100
TPH-GRO (C6-C10)
Concen: 111.45 ug/Kg m
RT: 14.565 min Scan# 1902
Delta R.T. 0.039 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm
Tgt Ion:TIC Resp:39474797



6.1.19
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49983.D
 Acq On : 12 Jul 2016 6:11 pm
 Operator : johannat
 Sample : C46435-12R
 Misc : MS1912,VL1499,5.35,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 11:01:36 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

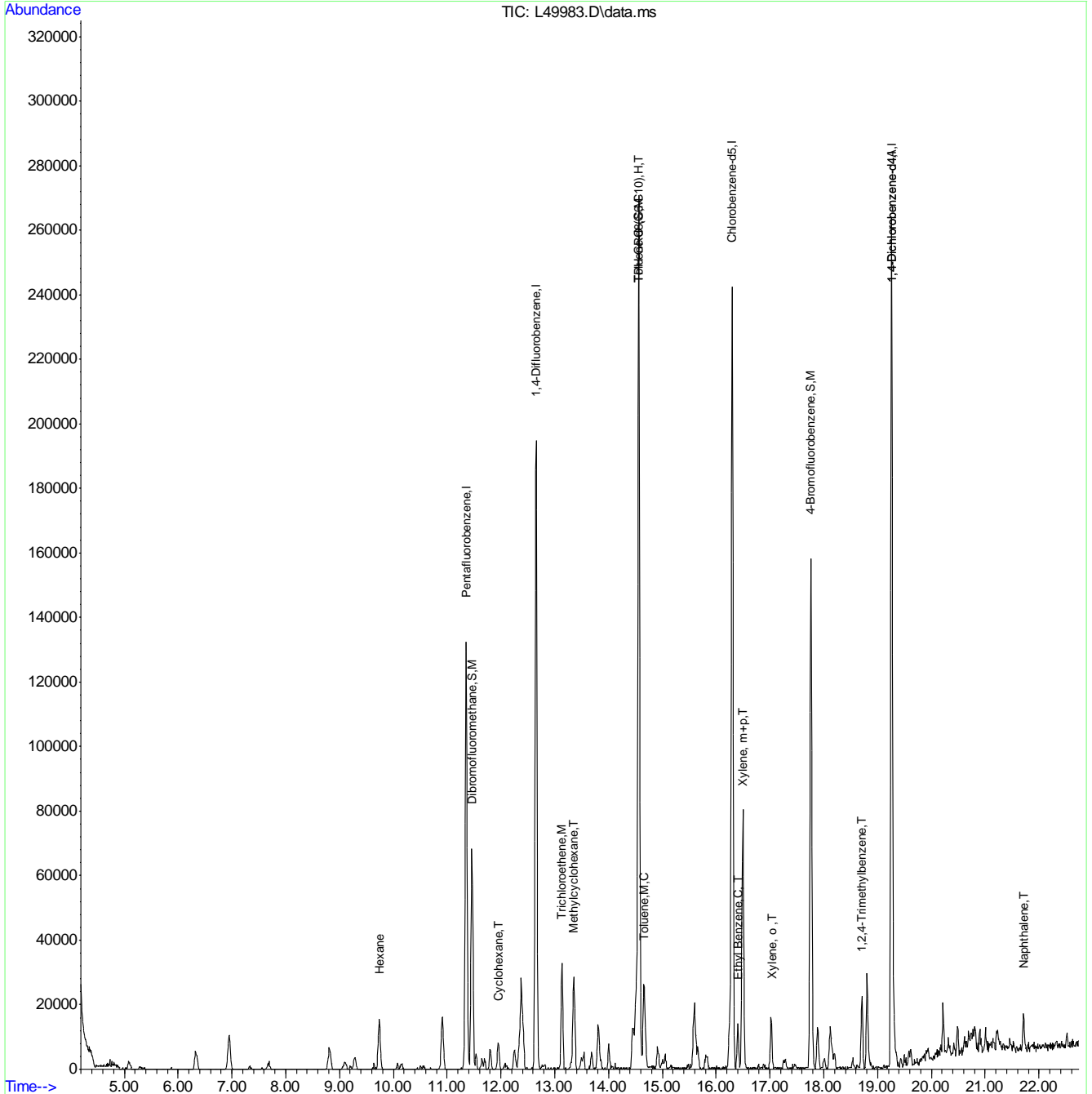
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.357	168	1181185	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.655	114	2035239	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1768575	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	818266	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	818266	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	613623	17.35	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery =	86.75%		
56) Toluene-d8	14.565	98	2416138	19.34	ug/Kg	0.00
Spiked Amount	20.000	Range 87 - 113	Recovery =	96.70%		
74) 4-Bromofluorobenzene	17.762	95	932625	17.97	ug/Kg	-0.01
Spiked Amount	20.000	Range 81 - 115	Recovery =	89.85%		
Target Compounds						
						Qvalue
24) Hexane	9.736	57	116825	3.13	ug/Kg	99
38) Cyclohexane	11.957	56	67657	1.27	ug/Kg	93
46) Trichloroethene	13.135	95	147783	3.92	ug/Kg	91
48) Methylcyclohexane	13.354	55	163817	3.44	ug/Kg	97
57) Toluene	14.652	92	141265	1.61	ug/Kg	96
67) Ethyl Benzene	16.404	91	164853	0.96	ug/Kg	98
68) Xylene, m+p	16.502	106	296265	4.89	ug/Kg	99
69) Xylene, o	17.031	106	66900	1.08	ug/Kg#	86
86) 1,2,4-Trimethylbenzene	18.706	105	199897	1.47	ug/Kg	90
97) Naphthalene	21.713	128	149259	1.20	ug/Kg	100
100) TPH-GRO (C6-C10)	14.565	TIC	39474797m	111.45	ug/Kg	

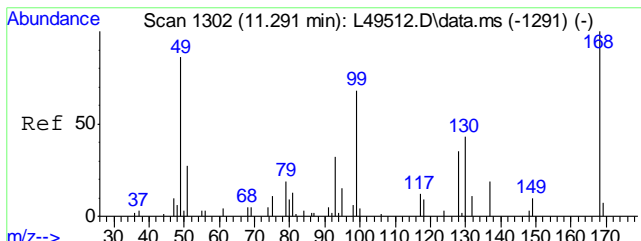
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

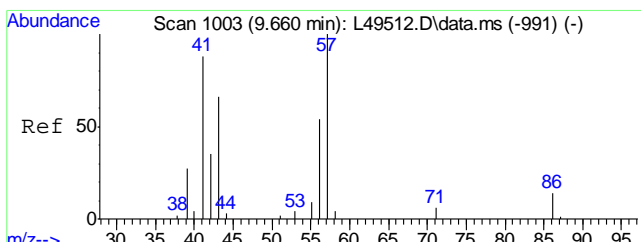
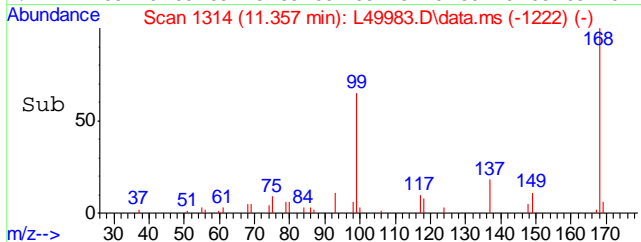
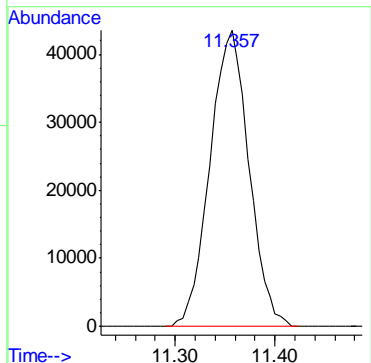
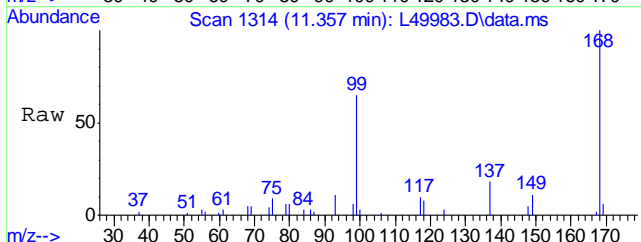
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49983.D
Acq On : 12 Jul 2016 6:11 pm
Operator : johannat
Sample : C46435-12R
Misc : MS1912,VL1499,5.35,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 02 11:01:36 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

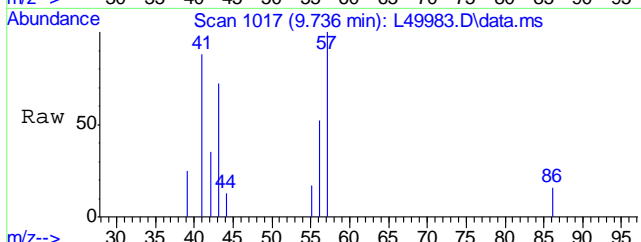




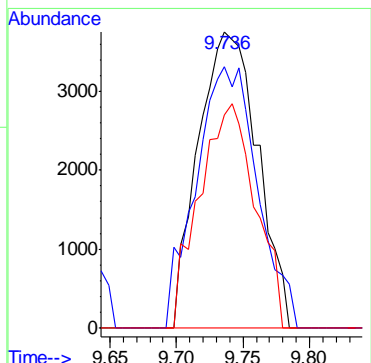
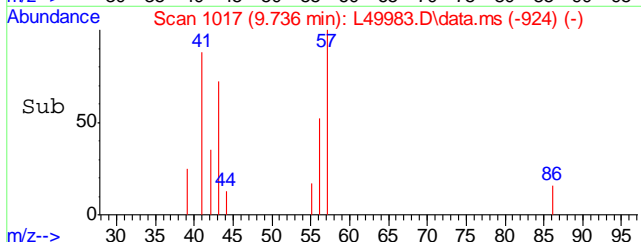
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.357 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm
 Tgt Ion:168 Resp: 1181185

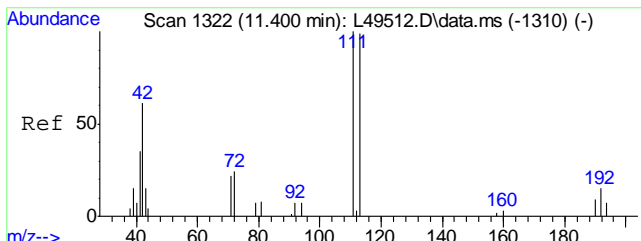


#24
 Hexane
 Concen: 3.13 ug/Kg
 RT: 9.736 min Scan# 1017
 Delta R.T. 0.006 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm
 Tgt Ion: 57 Resp: 116825



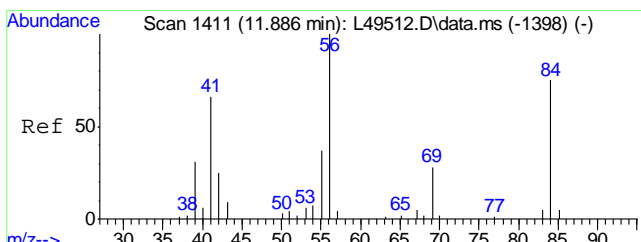
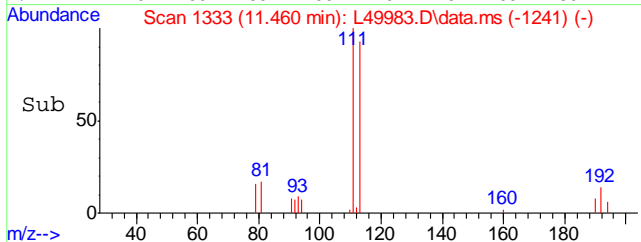
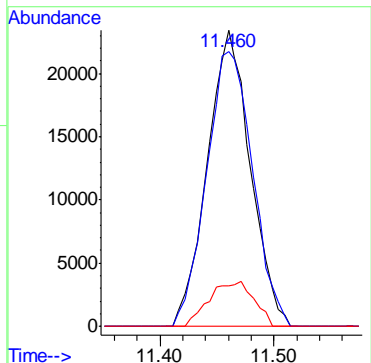
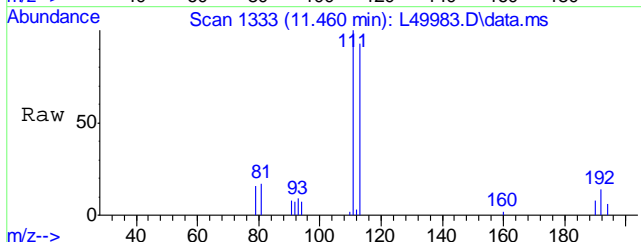
Ion	Ratio	Lower	Upper
57	100		
41	91.5	73.8	110.8
43	71.4	56.6	84.8





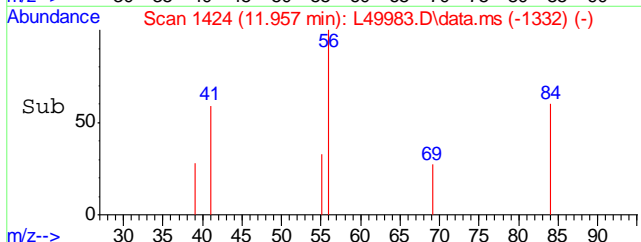
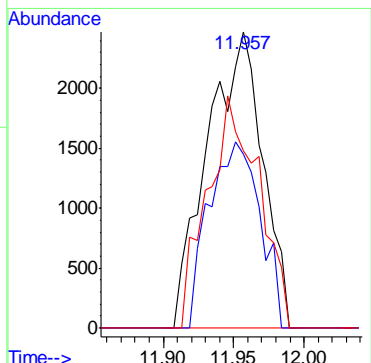
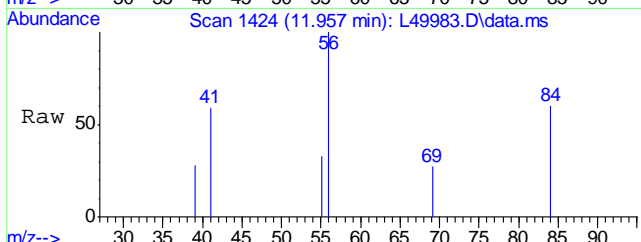
#36
 Dibromofluoromethane
 Concen: 17.35 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

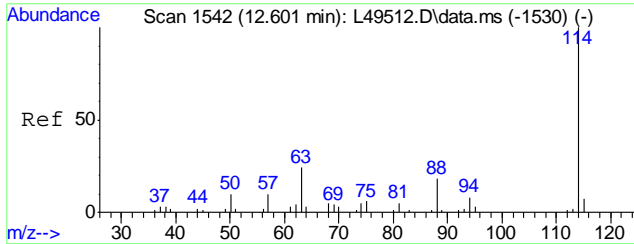
Tgt Ion	Resp	Lower	Upper
111	613623		
113	99.4	78.6	118.6
192	15.7	0.0	34.1



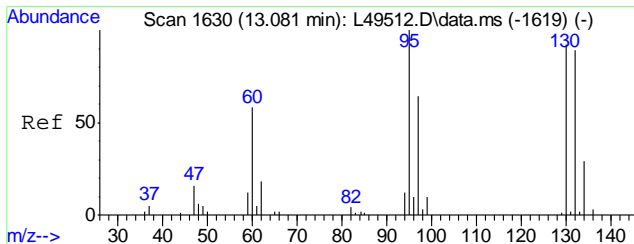
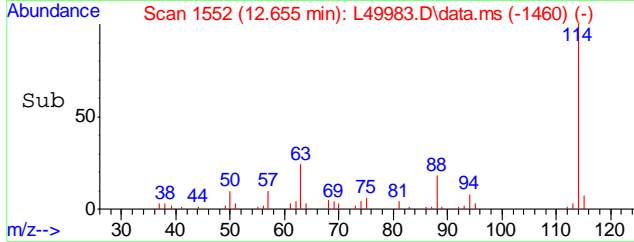
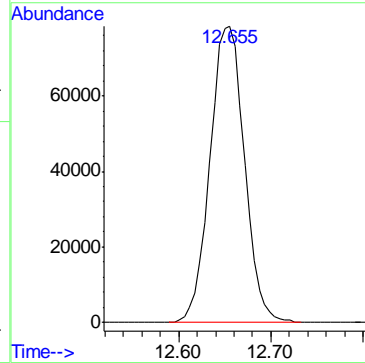
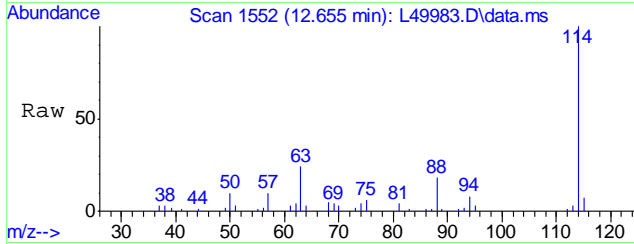
#38
 Cyclohexane
 Concen: 1.27 ug/Kg
 RT: 11.957 min Scan# 1424
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

Tgt Ion	Resp	Lower	Upper
56	67657		
41	58.2	53.7	80.5
84	72.6	60.5	90.7





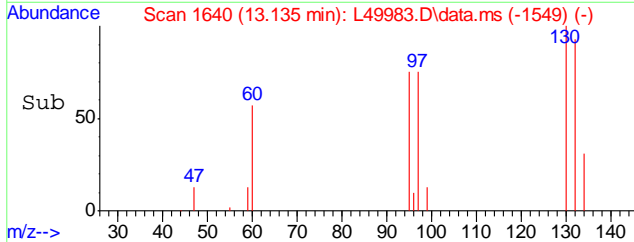
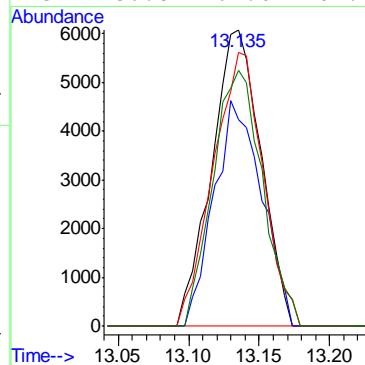
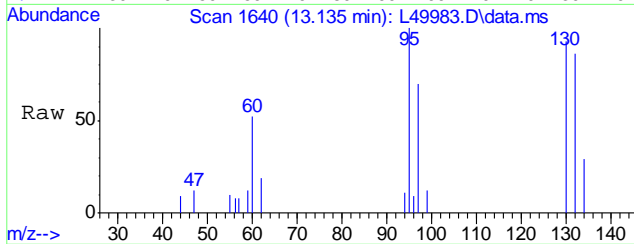
#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.655 min Scan# 1552
 Delta R.T. 0.000 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm
 Tgt Ion:114 Resp: 2035239

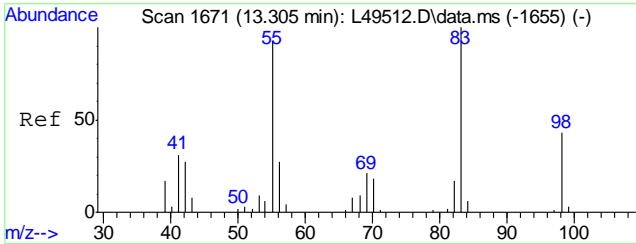


#46
 Trichloroethene
 Concen: 3.92 ug/Kg
 RT: 13.135 min Scan# 1640
 Delta R.T. -0.005 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

Tgt Ion: 95 Resp: 147783

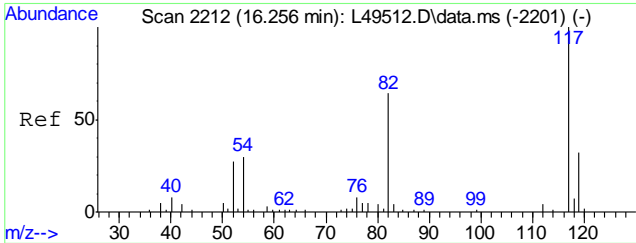
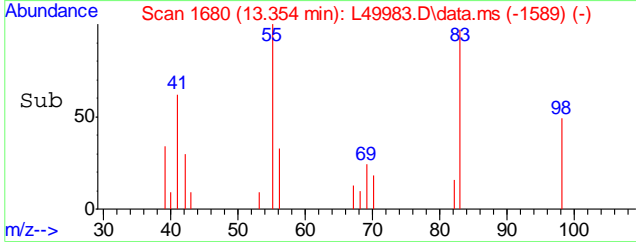
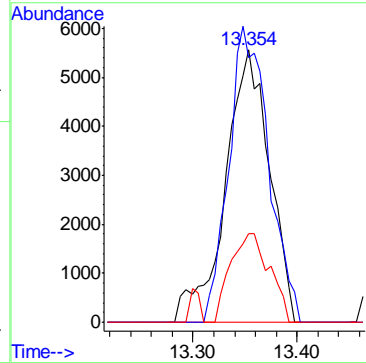
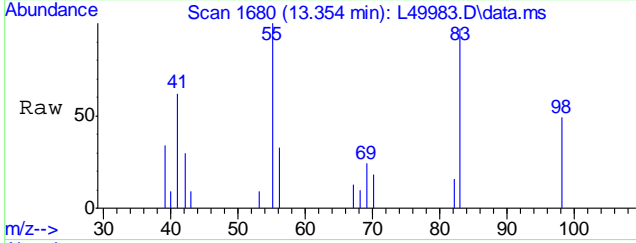
Ion	Ratio	Lower	Upper
95	100		
97	73.8	43.5	83.5
130	93.7	65.1	105.1
132	86.8	62.0	102.0





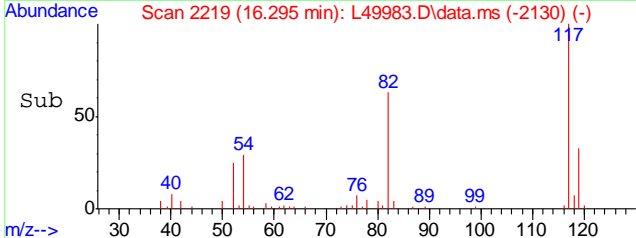
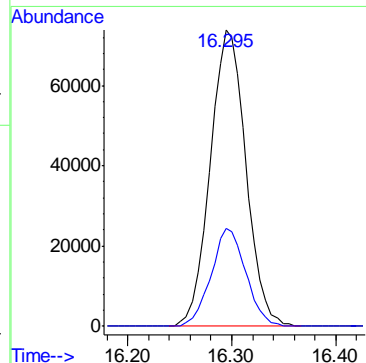
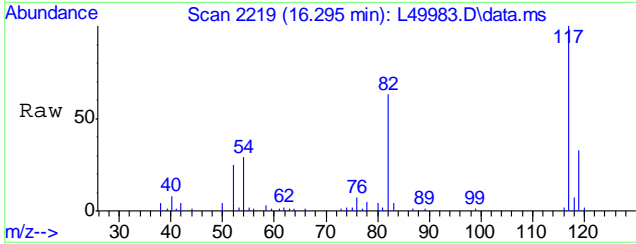
#48
Methylcyclohexane
Concen: 3.44 ug/Kg
RT: 13.354 min Scan# 1680
Delta R.T. -0.005 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

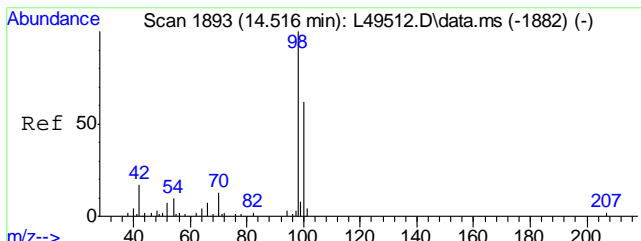
Tgt Ion	Resp	Lower	Upper
55	163817		
83	98.3	80.6	120.6
56	28.9	11.5	51.5



#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

Tgt Ion	Resp	Lower	Upper
117	1768575		
119	31.9	10.2	50.2

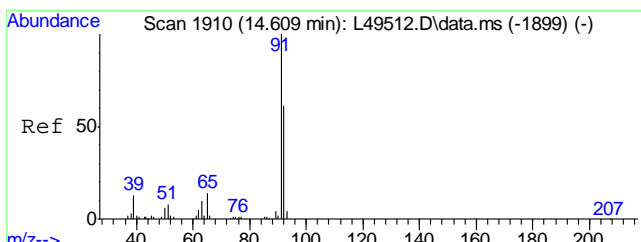
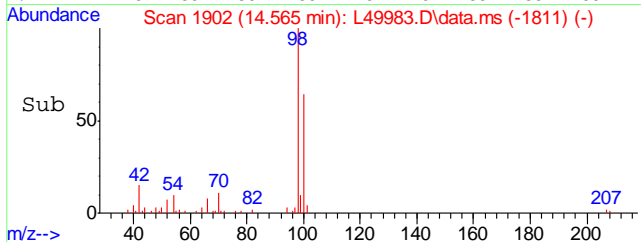
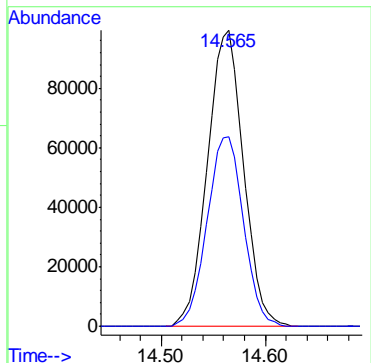
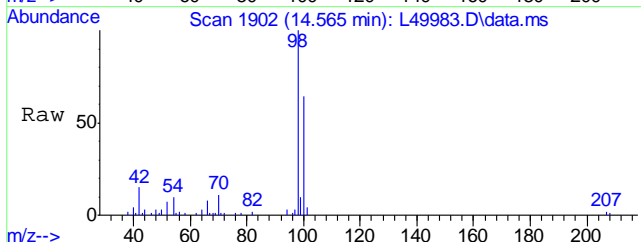




#56
 Toluene-d8
 Concen: 19.34 ug/Kg
 RT: 14.565 min Scan# 1902
 Delta R.T. -0.005 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

Tgt Ion: 98 Resp: 2416138

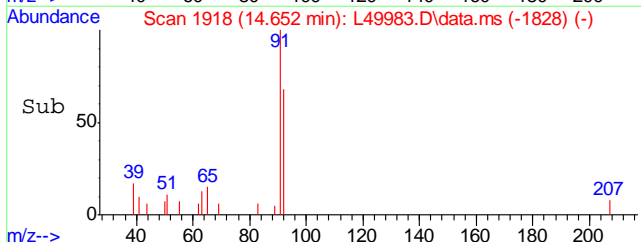
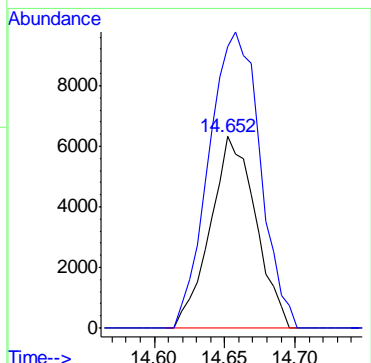
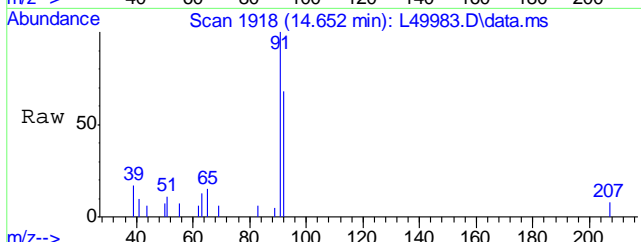
Ion	Ratio	Lower	Upper
98	100		
100	64.7	45.2	85.2

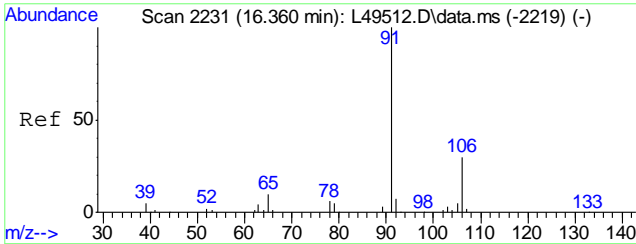


#57
 Toluene
 Concen: 1.61 ug/Kg
 RT: 14.652 min Scan# 1918
 Delta R.T. -0.010 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

Tgt Ion: 92 Resp: 141265

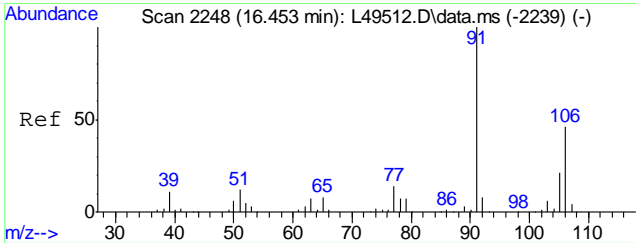
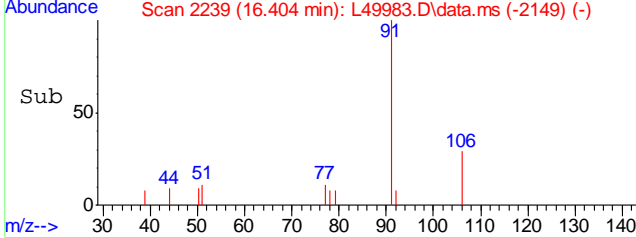
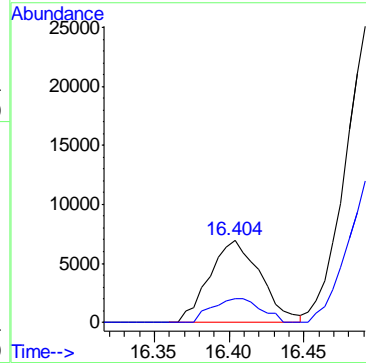
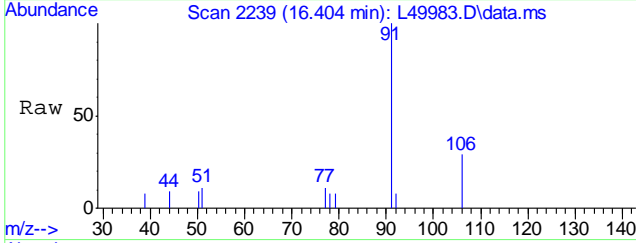
Ion	Ratio	Lower	Upper
92	100		
91	174.9	149.2	189.2





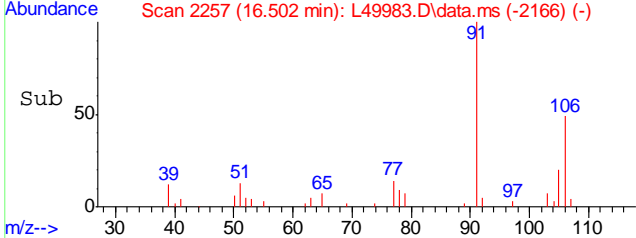
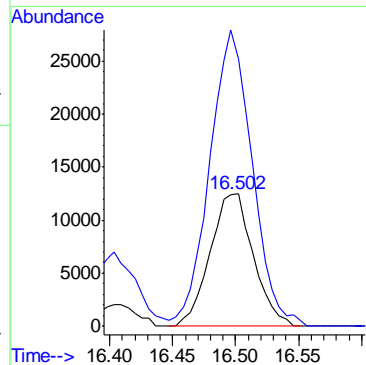
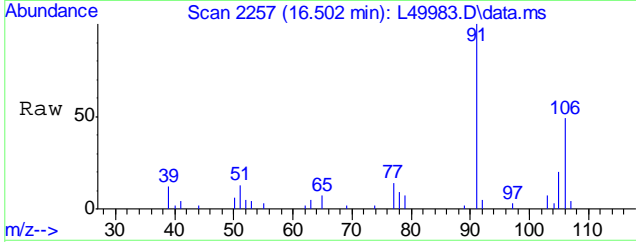
#67
Ethyl Benzene
Concen: 0.96 ug/Kg
RT: 16.404 min Scan# 2239
Delta R.T. -0.010 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

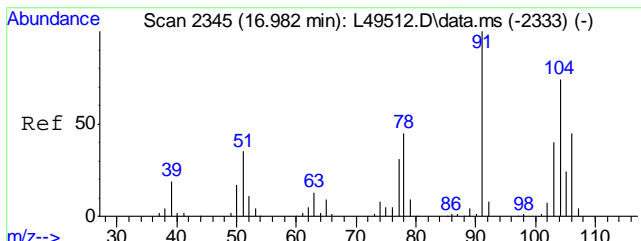
Tgt Ion: 91 Resp: 164853
Ion Ratio Lower Upper
91 100
106 27.5 8.6 48.6



#68
Xylene, m+p
Concen: 4.89 ug/Kg
RT: 16.502 min Scan# 2257
Delta R.T. -0.005 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

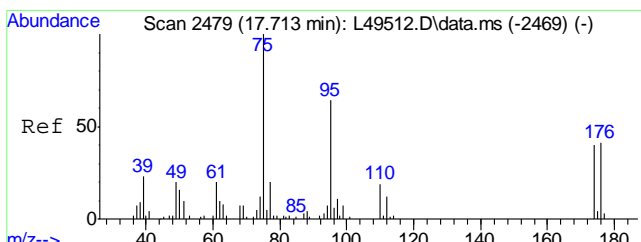
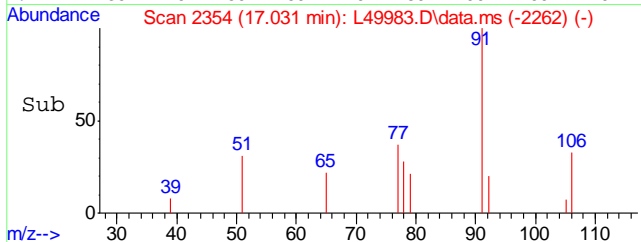
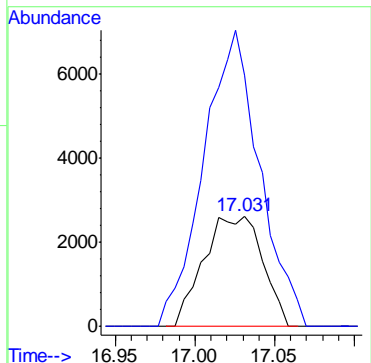
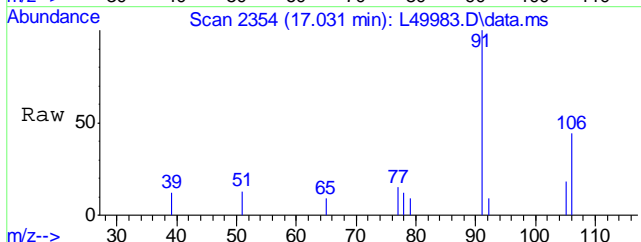
Tgt Ion: 106 Resp: 296265
Ion Ratio Lower Upper
106 100
91 220.7 202.1 242.1





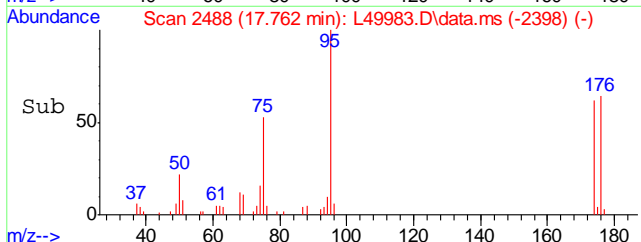
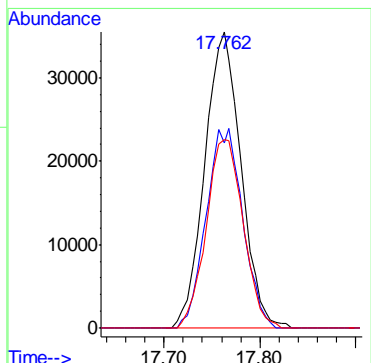
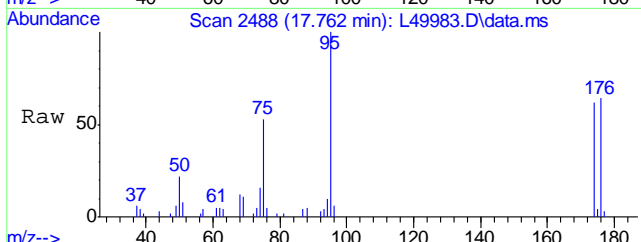
#69
Xylene, o
Concen: 1.08 ug/Kg
RT: 17.031 min Scan# 2354
Delta R.T. 0.000 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

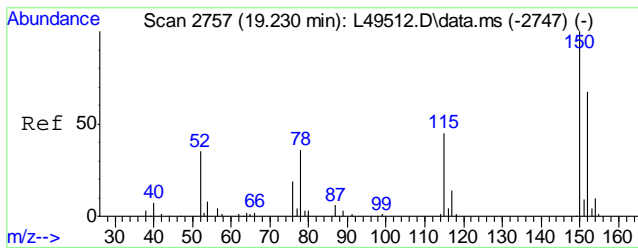
Tgt Ion	Resp	Lower	Upper
106	66900		
106	100		
91	256.5	212.6	252.6#



#74
4-Bromofluorobenzene
Concen: 17.97 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.010 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm

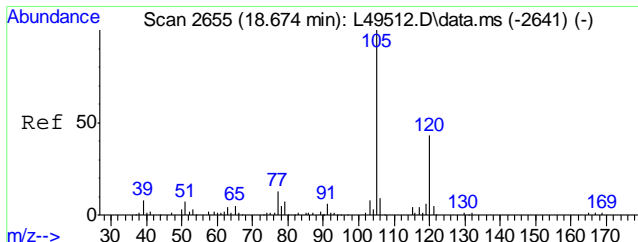
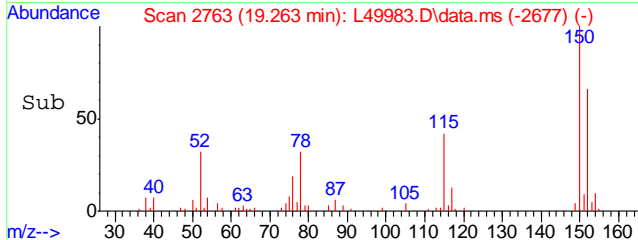
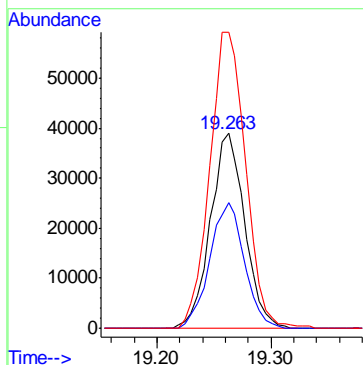
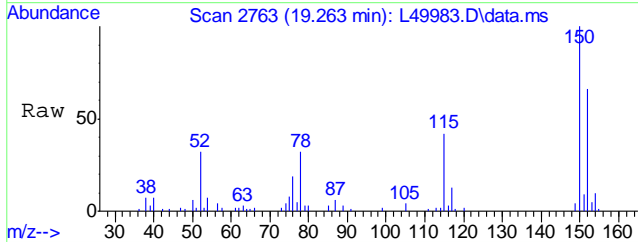
Tgt Ion	Resp	Lower	Upper
95	932625		
95	100		
174	67.8	41.6	81.6
176	64.8	39.6	79.6





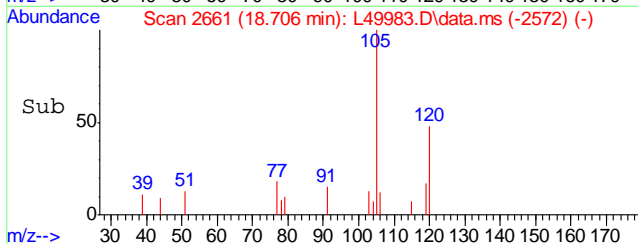
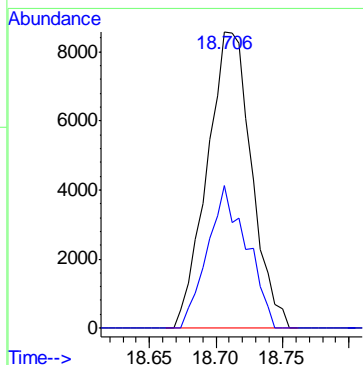
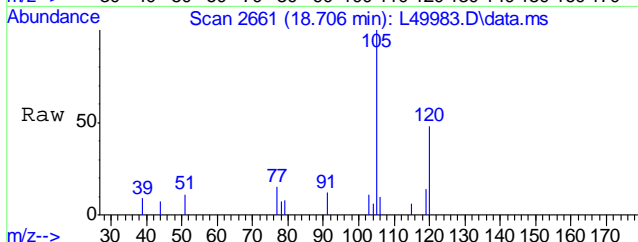
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

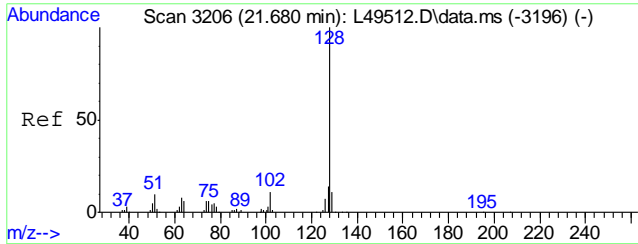
Tgt Ion	Resp	Lower	Upper
152	100		
115	64.8	48.8	88.8
150	159.0	174.3	214.3#



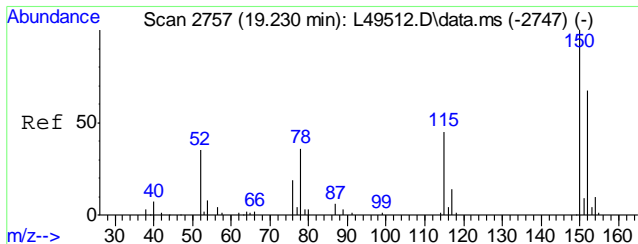
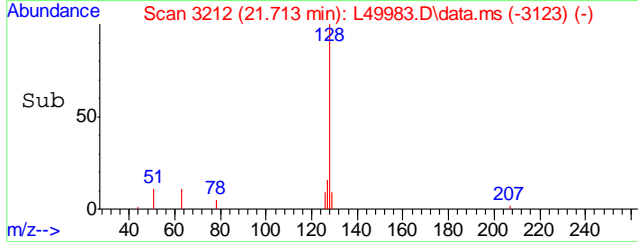
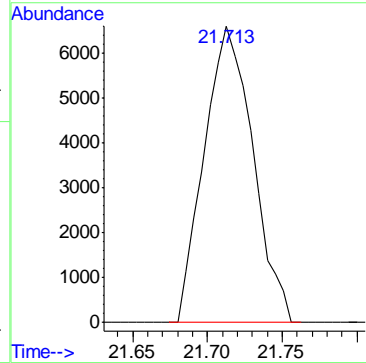
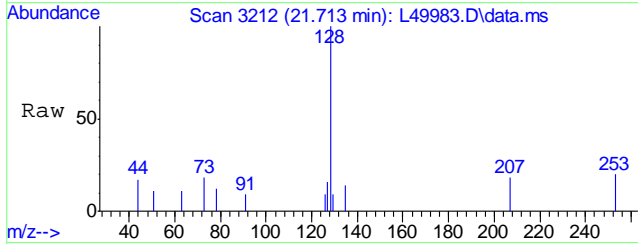
#86
 1,2,4-Trimethylbenzene
 Concen: 1.47 ug/Kg
 RT: 18.706 min Scan# 2661
 Delta R.T. -0.016 min
 Lab File: L49983.D
 Acq: 12 Jul 2016 6:11 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	42.6	29.7	69.7

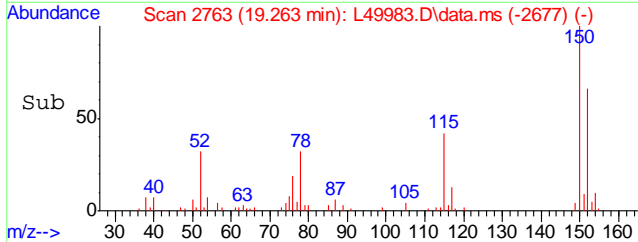
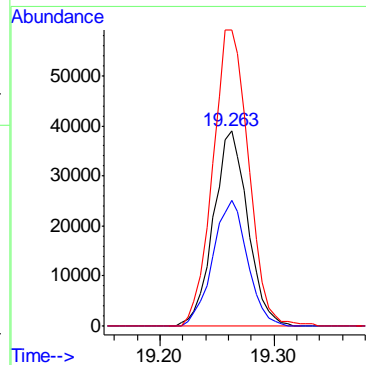
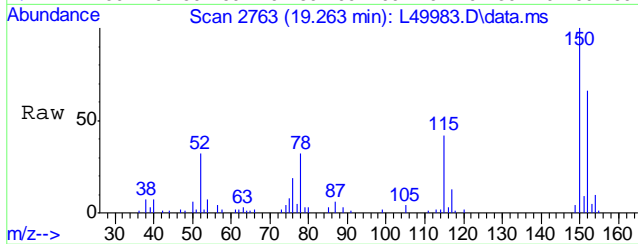


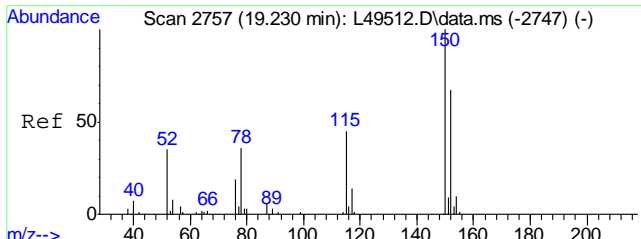


#97
Naphthalene
Concen: 1.20 ug/Kg
RT: 21.713 min Scan# 3212
Delta R.T. -0.016 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm
Tgt Ion:128 Resp: 149259

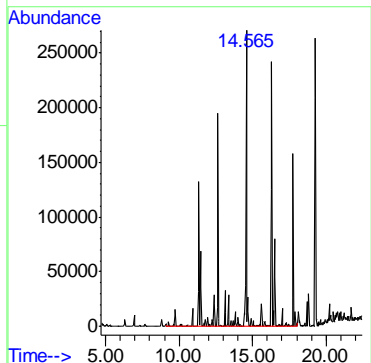
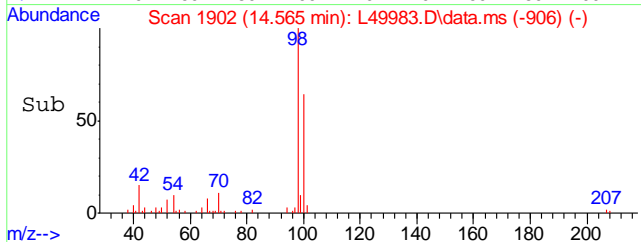
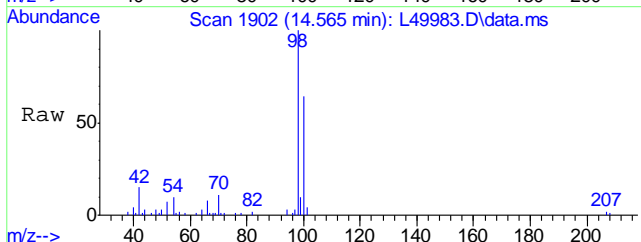


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm
Tgt Ion:152 Resp: 818266
Ion Ratio Lower Upper
152 100
115 64.8 41.6 81.6
150 159.0 176.9 216.9#





#100
TPH-GRO (C6-C10)
Concen: 111.45 ug/Kg m
RT: 14.565 min Scan# 1902
Delta R.T. 0.039 min
Lab File: L49983.D
Acq: 12 Jul 2016 6:11 pm
Tgt Ion:TIC Resp:39474797



6.1.20
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61843.D
Acq On : 13 Jul 2016 6:30 pm
Operator : johannat
Sample : C46435-13R
Misc : MS1912,VM1859,5.43,,100,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 02 10:11:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, 1,4-Dichlorobenzene-d4A.

Table with 7 columns: System Monitoring Compounds, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Dibromofluoromethane, Toluene-d8, 4-Bromofluorobenzene with Spiked Amount and Recovery percentages.

Table with 7 columns: Target Compounds, R.T., QIon, Response, Conc, Units, Qvalue. Rows include Methyl Acetate, Benzene, Methylcyclohexane, Toluene, Ethyl Benzene, Xylene, m+p, Xylene, o, Isopropylbenzene, n-Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Naphthalene, TPH-GRO (C6-C10).

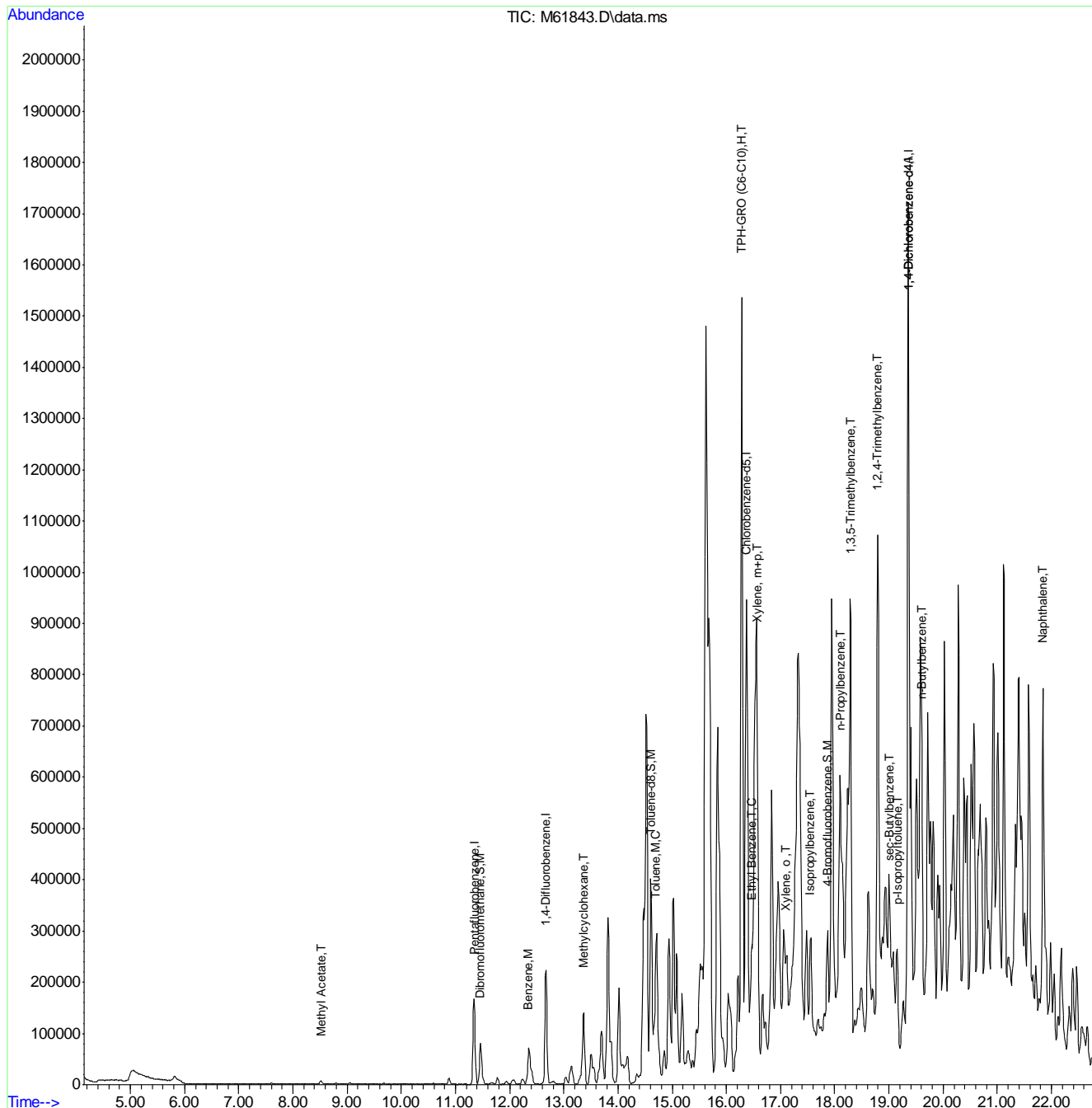
(#) = qualifier out of range (m) = manual integration (+) = signals summed

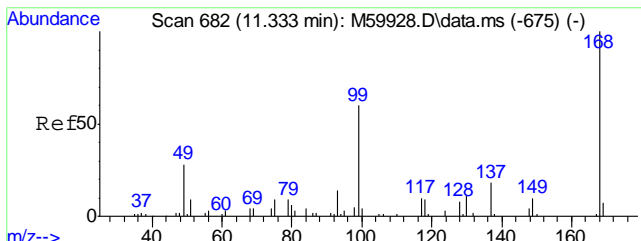
6.1.21
6

Quantitation Report (QT Reviewed)

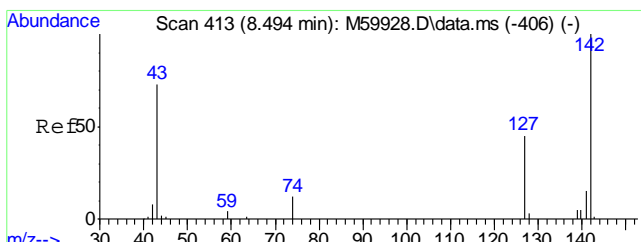
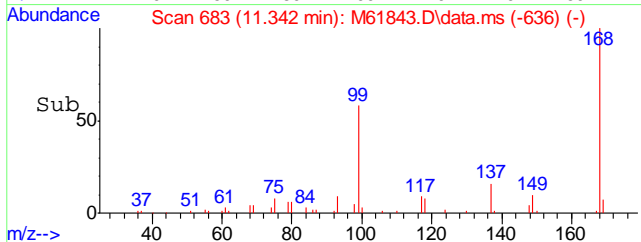
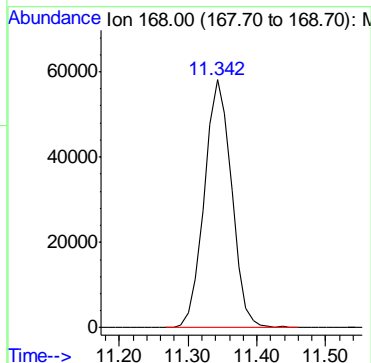
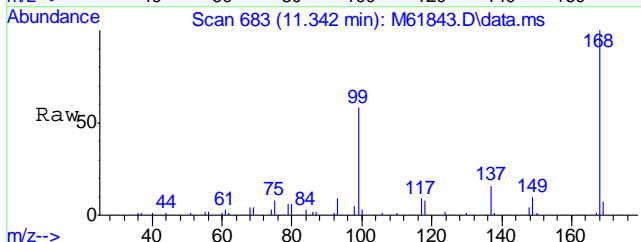
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61843.D
 Acq On : 13 Jul 2016 6:30 pm
 Operator : johannat
 Sample : C46435-13R
 Misc : MS1912,VM1859,5.43,,100,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 02 10:11:09 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration



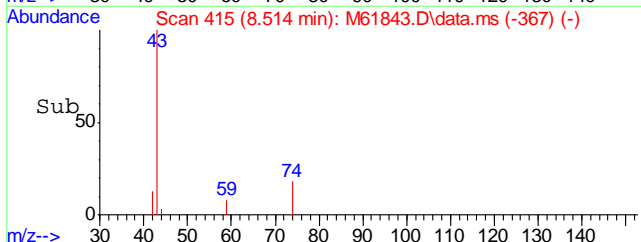
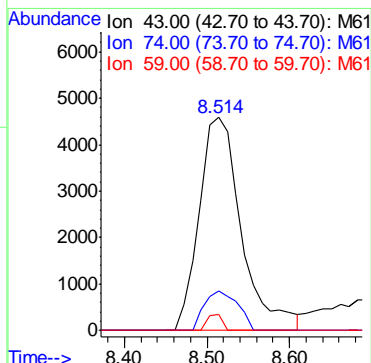
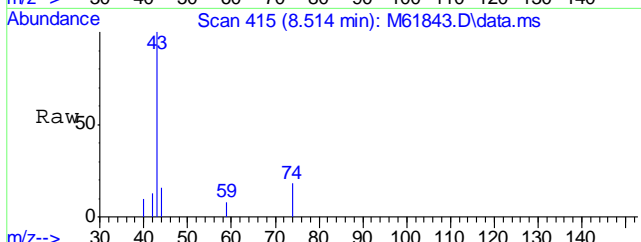


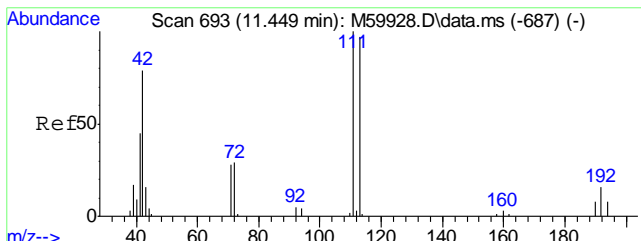
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.342 min Scan# 683
 Delta R.T. -0.001 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm
 Tgt Ion:168 Resp: 160027



#15
 Methyl Acetate
 Concen: 3.33 ppb
 RT: 8.514 min Scan# 415
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm
 Tgt Ion: 43 Resp: 16381

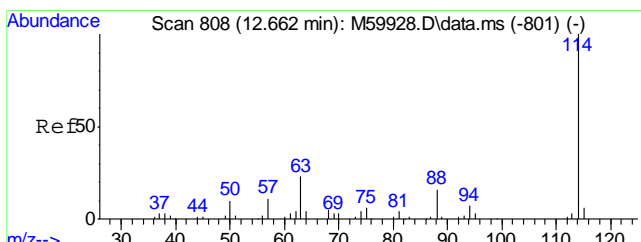
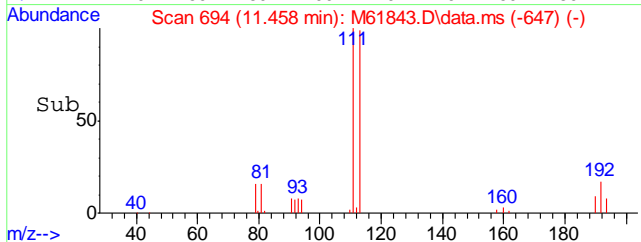
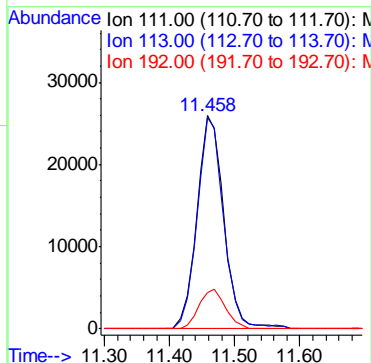
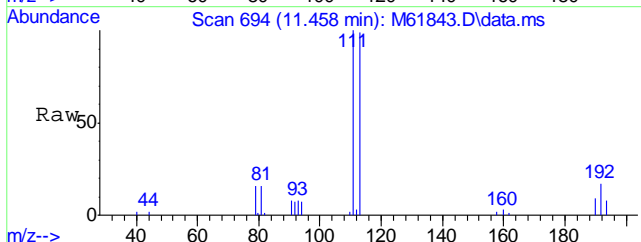
Ion	Ratio	Lower	Upper
43	100		
74	14.7	0.0	37.1
59	0.0	0.0	27.1





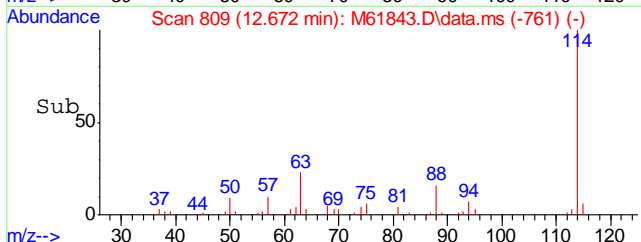
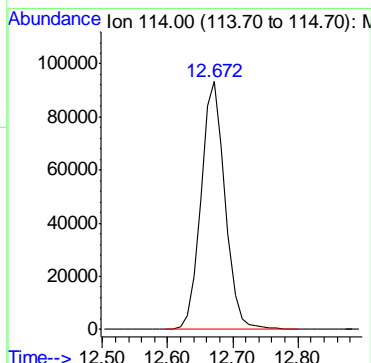
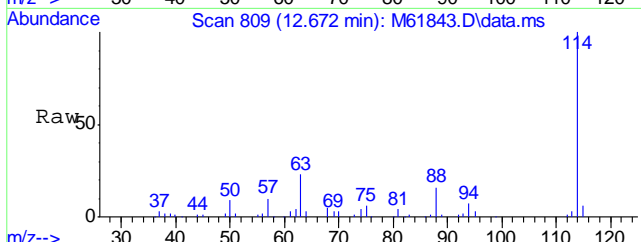
#36
 Dibromofluoromethane
 Concen: 18.49 ppb
 RT: 11.458 min Scan# 694
 Delta R.T. -0.001 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

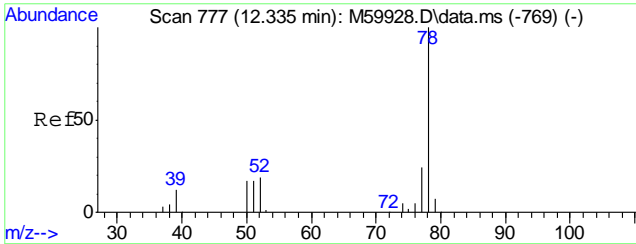
Tgt Ion	Resp	Lower	Upper
111	75034	100	
113	97.4	77.7	117.7
192	18.2	0.0	36.3



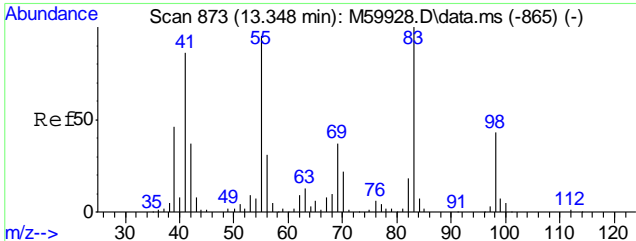
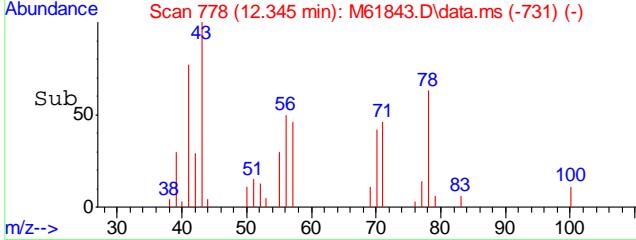
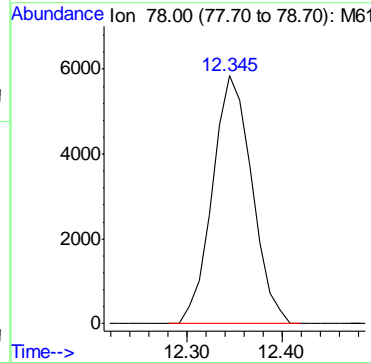
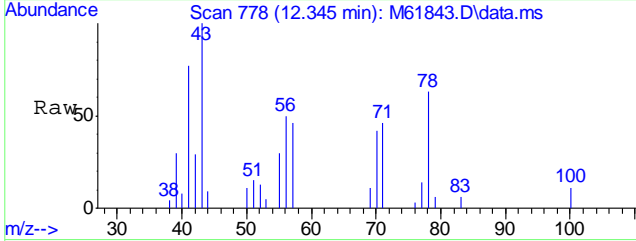
#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.672 min Scan# 809
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

Tgt Ion:114 Resp: 241186

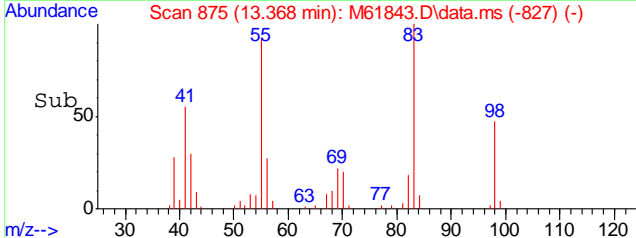
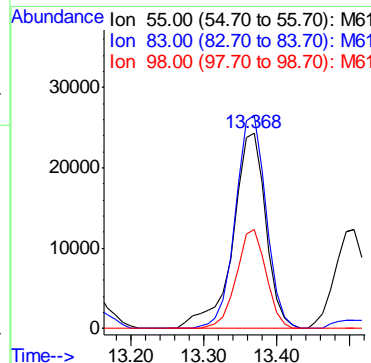
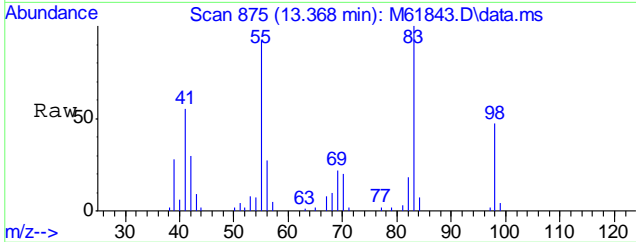


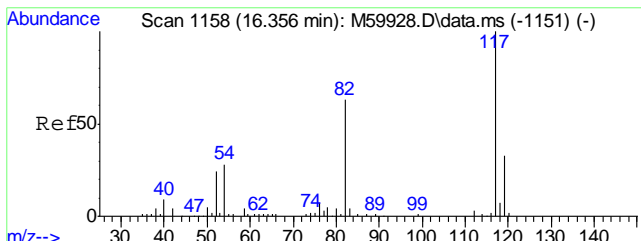


#45
Benzene
Concen: 0.80 ppb
RT: 12.345 min Scan# 778
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm
Tgt Ion: 78 Resp: 16789



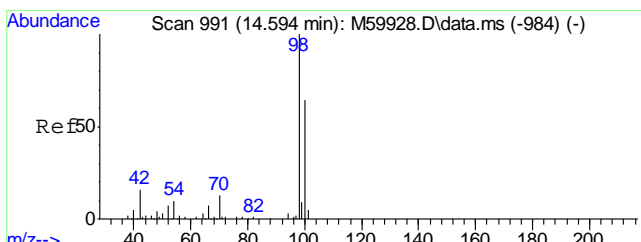
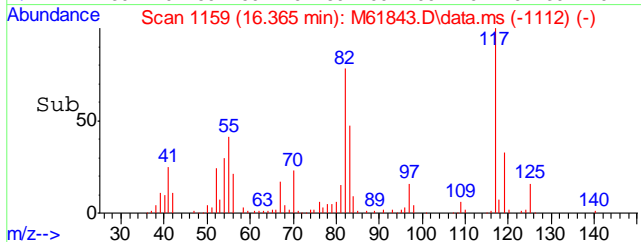
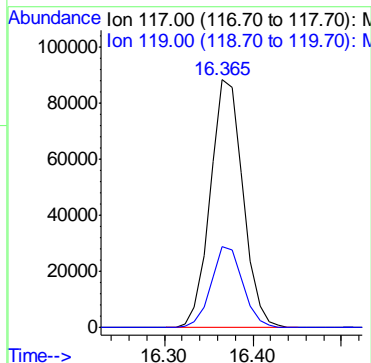
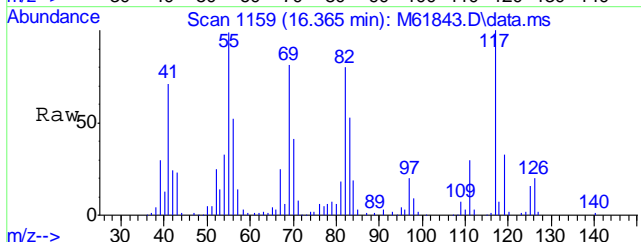
#48
Methylcyclohexane
Concen: 8.61 ppb
RT: 13.368 min Scan# 875
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm
Tgt Ion: 55 Resp: 76361
Ion Ratio Lower Upper
55 100
83 101.9 84.5 124.5
98 45.9 27.0 67.0





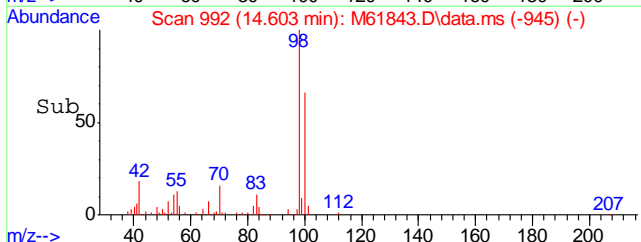
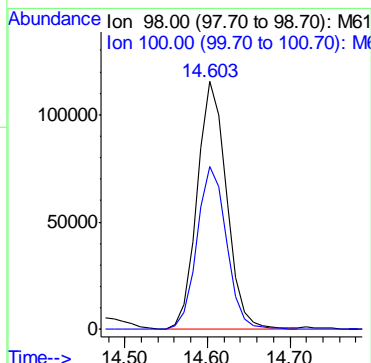
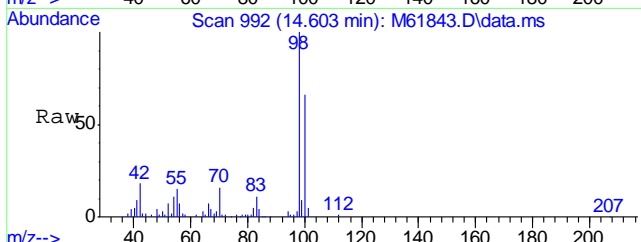
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.365 min Scan# 1159
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

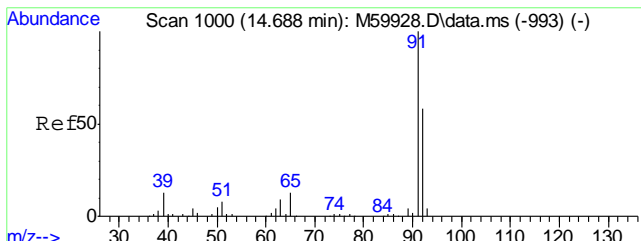
Tgt Ion	Resp	Lower	Upper
117	225989	100	
119	31.8	11.2	51.2



#56
Toluene-d8
Concen: 19.29 ppb
RT: 14.603 min Scan# 992
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

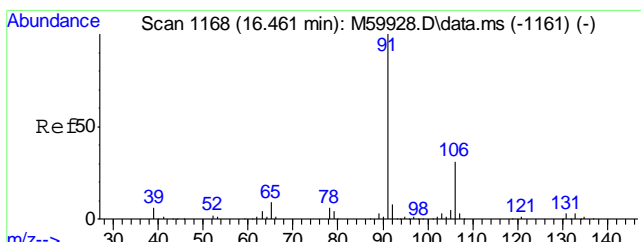
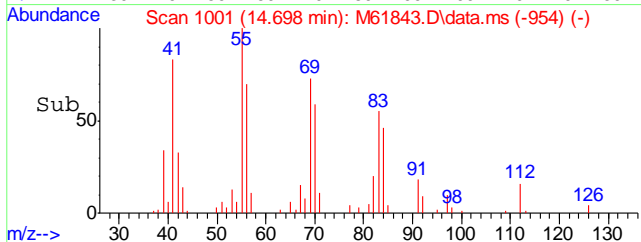
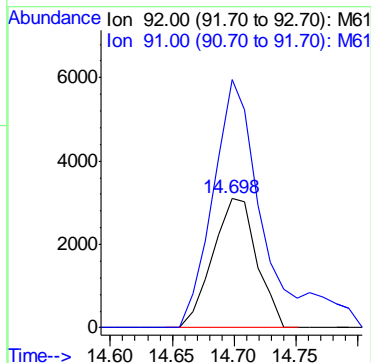
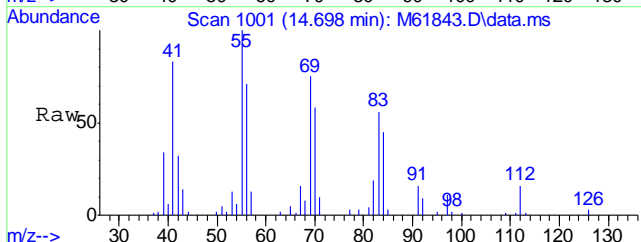
Tgt Ion	Resp	Lower	Upper
98	284549	100	
100	66.4	44.3	84.3





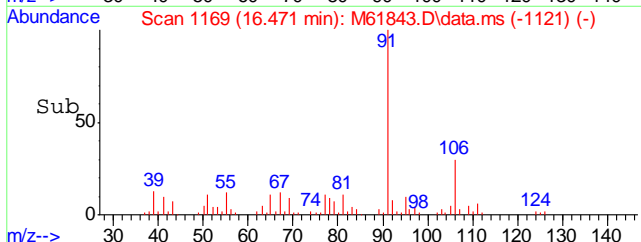
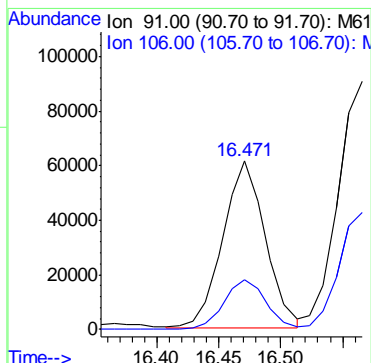
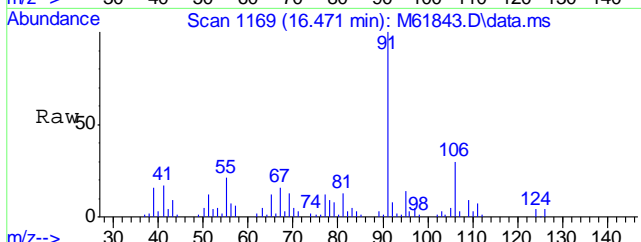
#57
Toluene
Concen: 0.62 ppb
RT: 14.698 min Scan# 1001
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

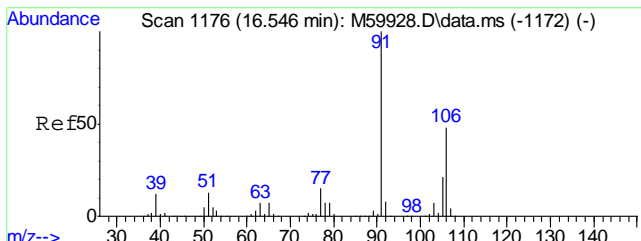
Tgt Ion: 92 Resp: 7714
Ion Ratio Lower Upper
92 100
91 221.1 150.5 190.5#



#67
Ethyl Benzene
Concen: 6.27 ppb
RT: 16.471 min Scan# 1169
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

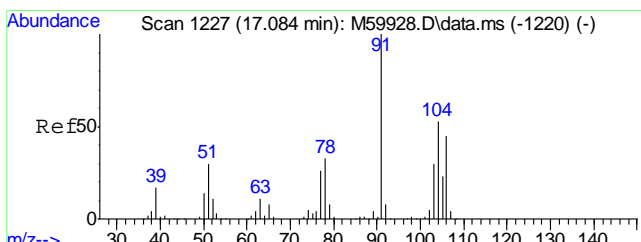
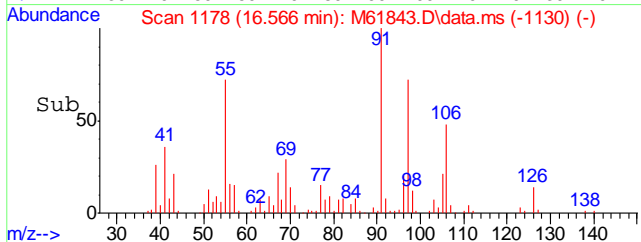
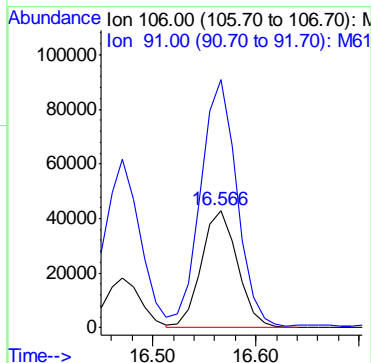
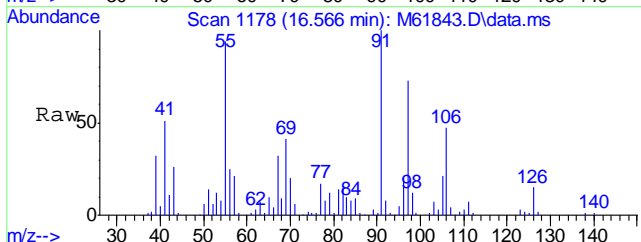
Tgt Ion: 91 Resp: 146860
Ion Ratio Lower Upper
91 100
106 29.5 10.2 50.2





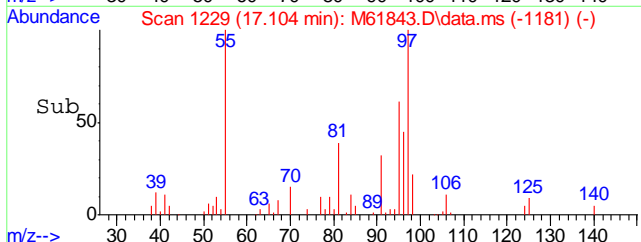
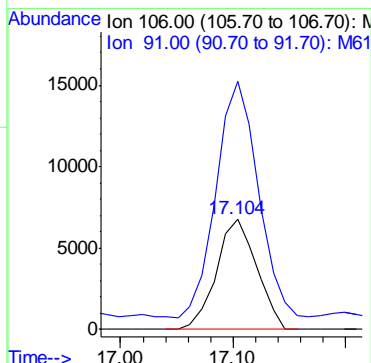
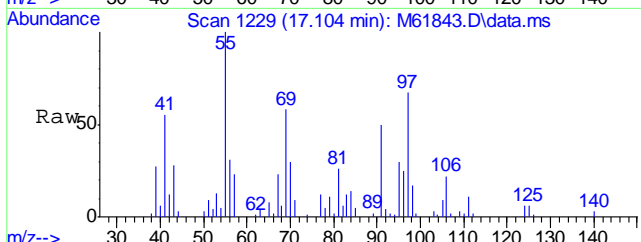
#68
Xylene, m+p
Concen: 12.12 ppb
RT: 16.566 min Scan# 1178
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

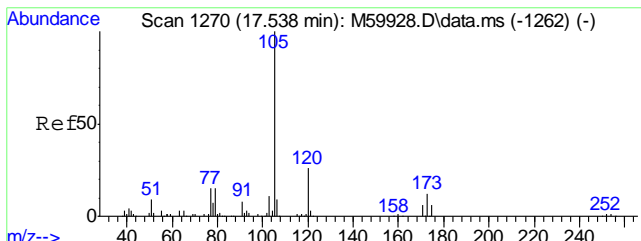
Tgt Ion	Resp	Lower	Upper
106	103770		
106	100		
91	210.2	191.5	231.5



#69
Xylene, o
Concen: 1.96 ppb
RT: 17.104 min Scan# 1229
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

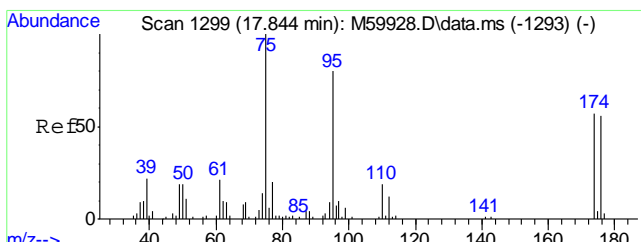
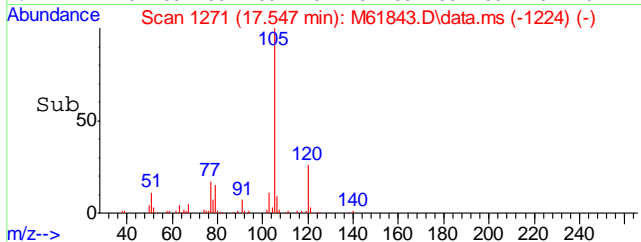
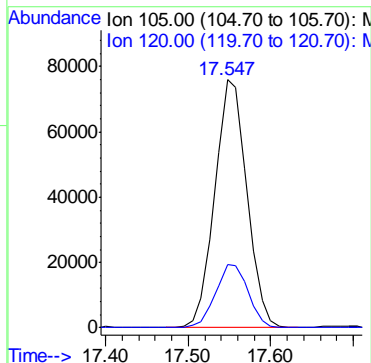
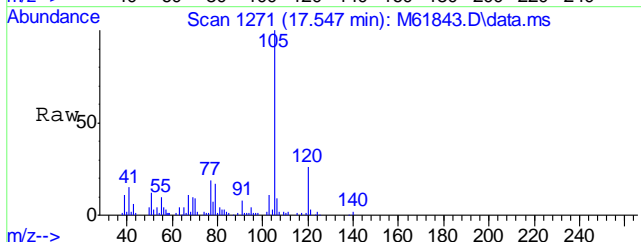
Tgt Ion	Resp	Lower	Upper
106	16902		
106	100		
91	221.6	203.2	243.2





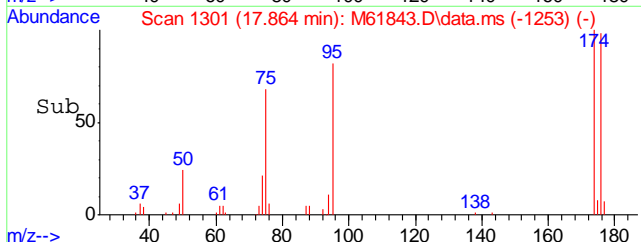
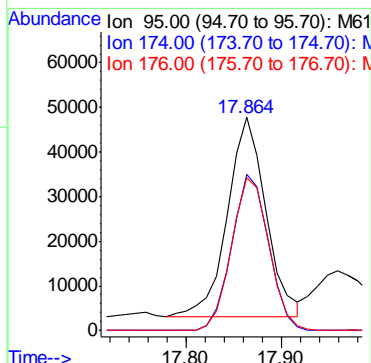
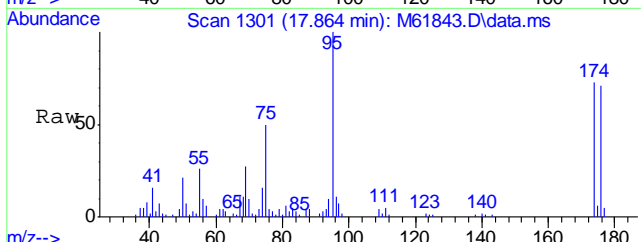
#73
Isopropylbenzene
Concen: 9.43 ppb
RT: 17.547 min Scan# 1271
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

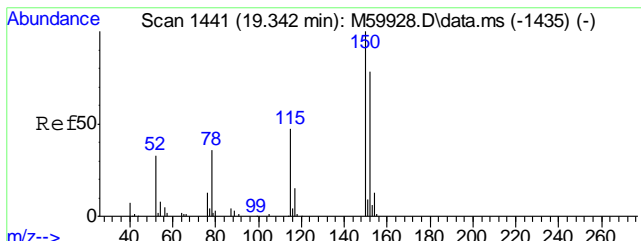
Tgt Ion	Resp	Lower	Upper
105	206147	100	
120	25.9	5.7	45.7



#74
4-Bromofluorobenzene
Concen: 21.62 ppb
RT: 17.864 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

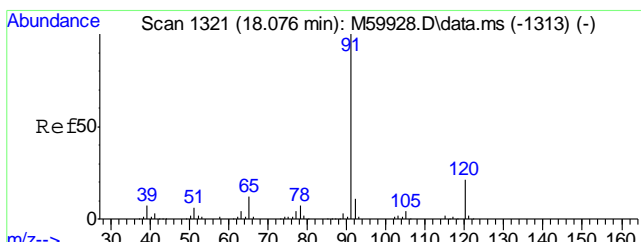
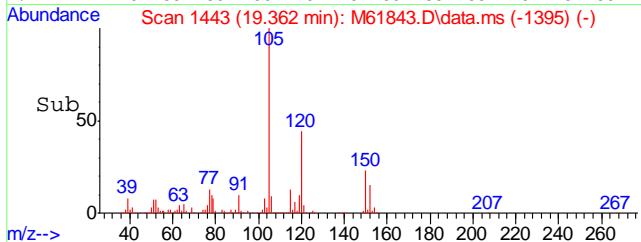
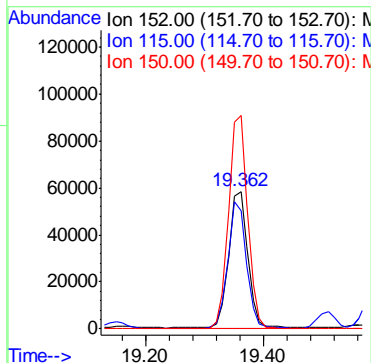
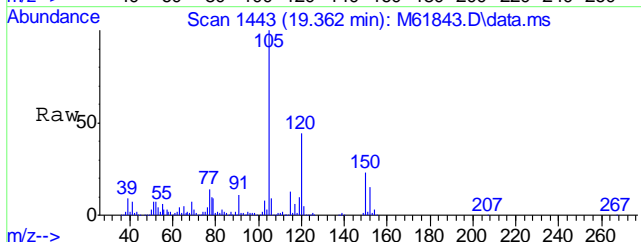
Tgt Ion	Resp	Lower	Upper
95	125378	100	
174	74.6	54.3	94.3
176	73.9	51.5	91.5





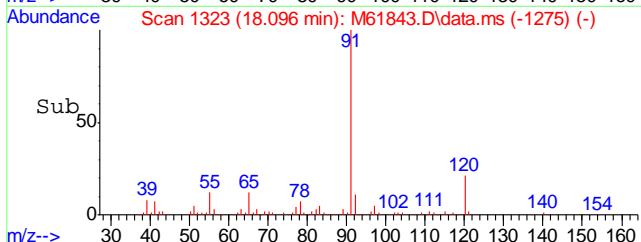
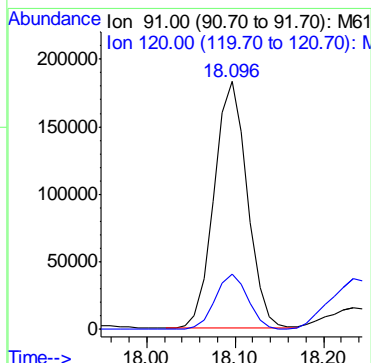
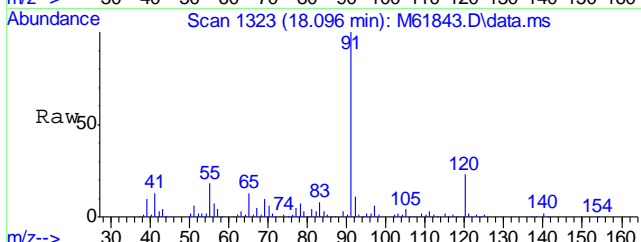
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.362 min Scan# 1443
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

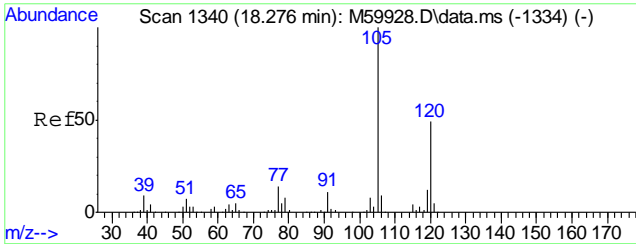
Tgt Ion	Resp	Lower	Upper
152	134462		
152	100		
115	90.2	40.9	80.9#
150	153.1	178.6	218.6#



#79
n-Propylbenzene
Concen: 15.01 ppb
RT: 18.096 min Scan# 1323
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

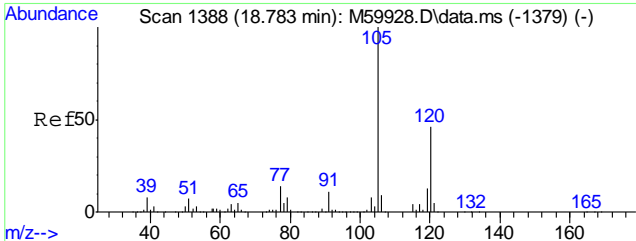
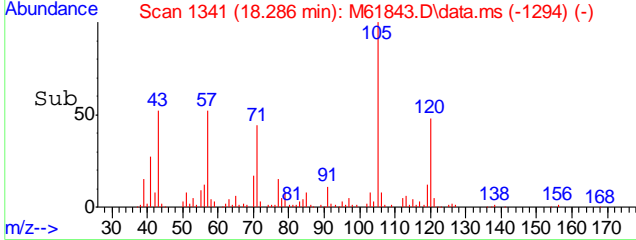
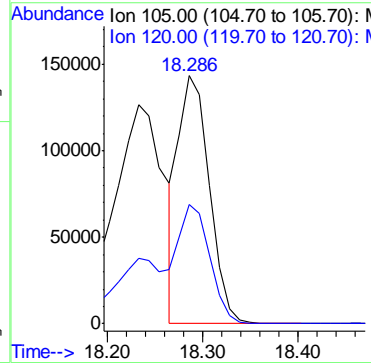
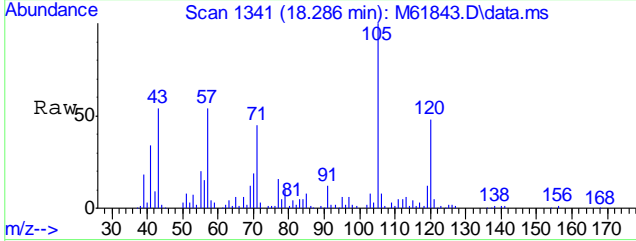
Tgt Ion	Resp	Lower	Upper
91	476261		
91	100		
120	22.2	1.3	41.3





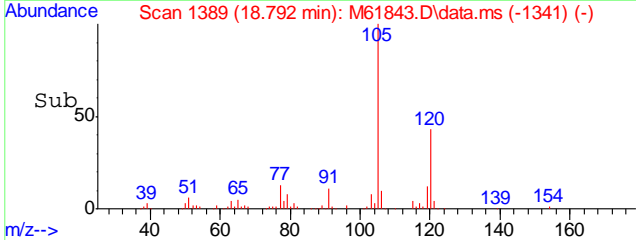
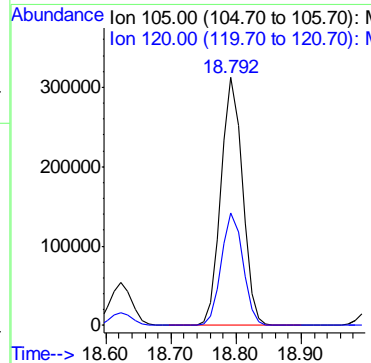
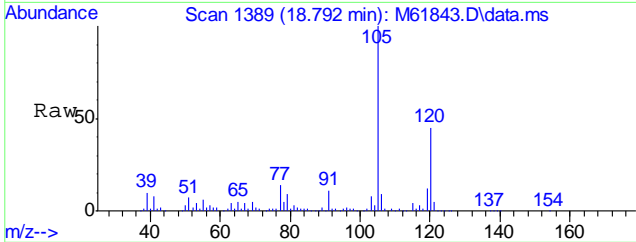
#81
 1,3,5-Trimethylbenzene
 Concen: 15.36 ppb
 RT: 18.286 min Scan# 1341
 Delta R.T. -0.001 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

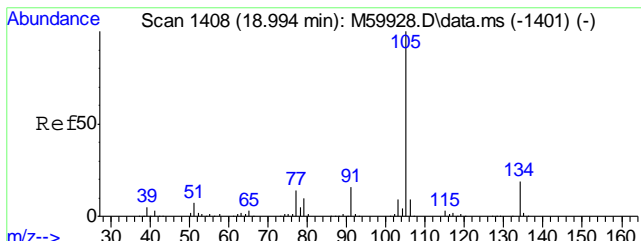
Tgt Ion	Resp	Lower	Upper
105	323055	100	
120	54.0	26.6	66.6



#86
 1,2,4-Trimethylbenzene
 Concen: 32.57 ppb
 RT: 18.792 min Scan# 1389
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

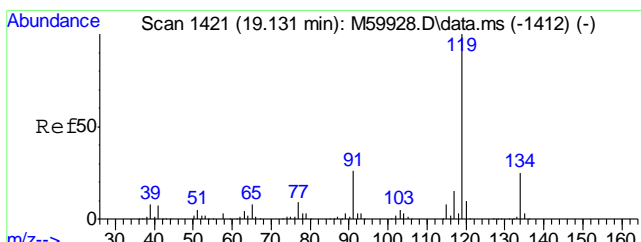
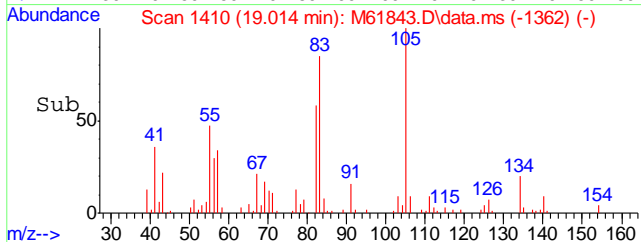
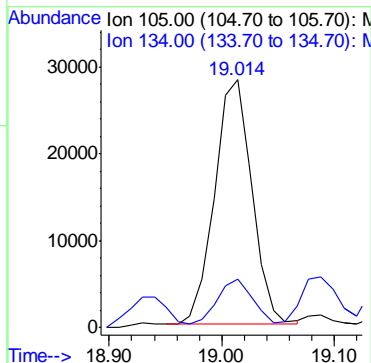
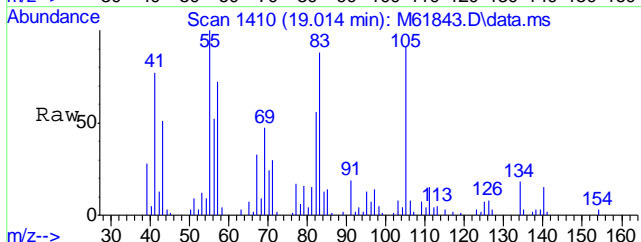
Tgt Ion	Resp	Lower	Upper
105	711276	100	
120	45.3	32.4	72.4





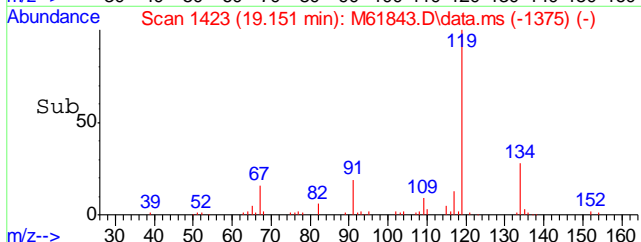
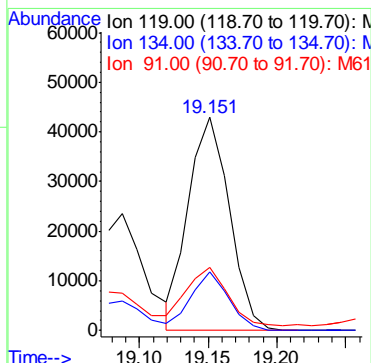
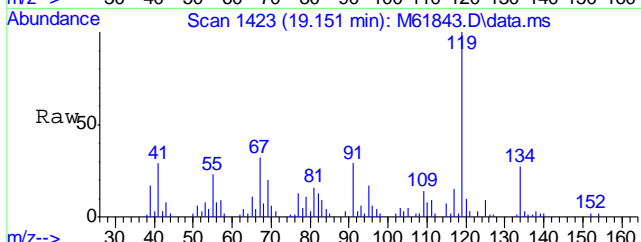
#87
 sec-Butylbenzene
 Concen: 2.36 ppb
 RT: 19.014 min Scan# 1410
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

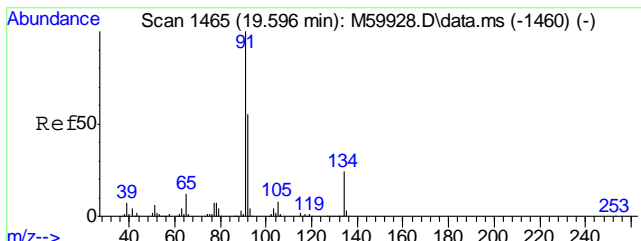
Tgt Ion	Resp	Lower	Upper
105	64866	100	
134	19.8	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 3.96 ppb
 RT: 19.151 min Scan# 1423
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

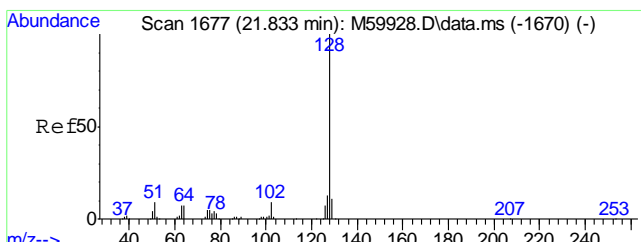
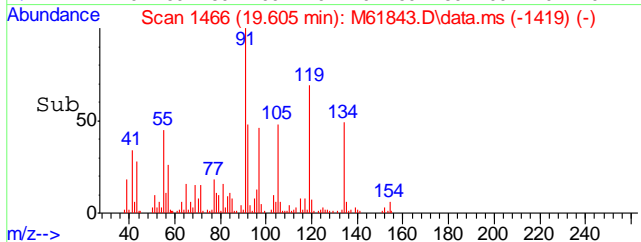
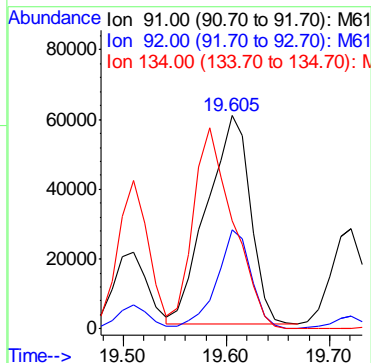
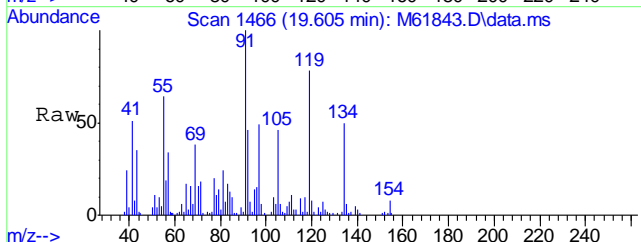
Tgt Ion	Resp	Lower	Upper
119	89174	100	
134	25.5	6.0	46.0
91	28.1	6.0	46.0





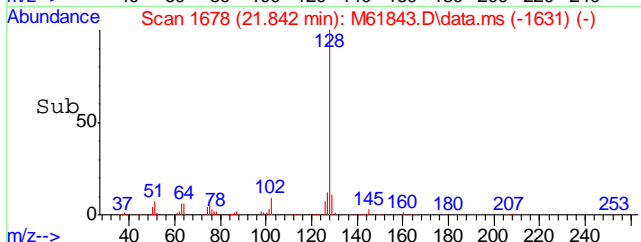
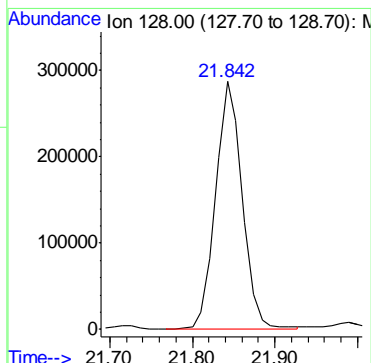
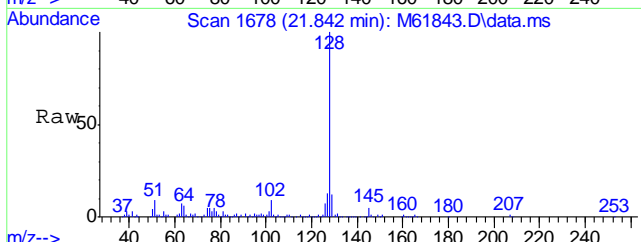
#92
n-Butylbenzene
Concen: 7.66 ppb
RT: 19.605 min Scan# 1466
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

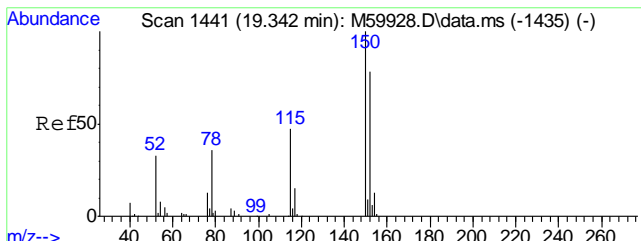
Tgt Ion	Resp	Lower	Upper
91	175436		
92	37.8	35.3	75.3
134	88.9	3.6	43.6#



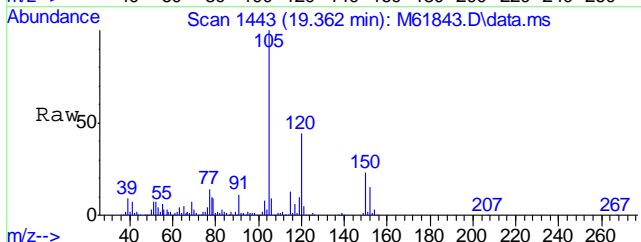
#97
Naphthalene
Concen: 36.54 ppb
RT: 21.842 min Scan# 1678
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

Tgt Ion: 128 Resp: 645712

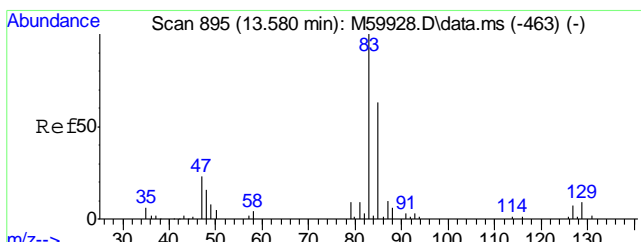
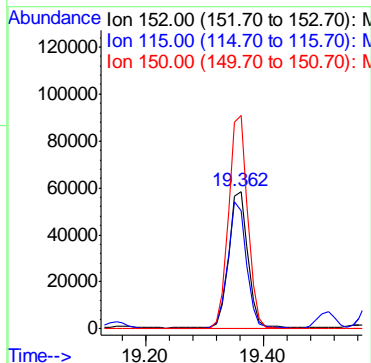
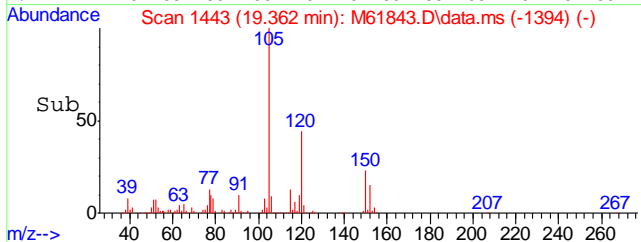




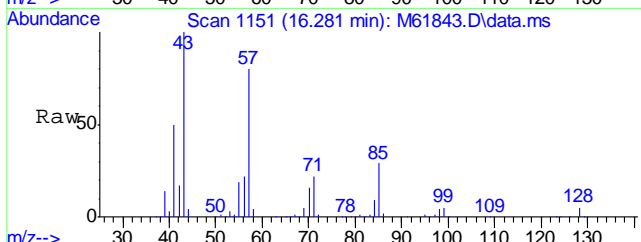
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.362 min Scan# 1443
 Delta R.T. 0.020 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm



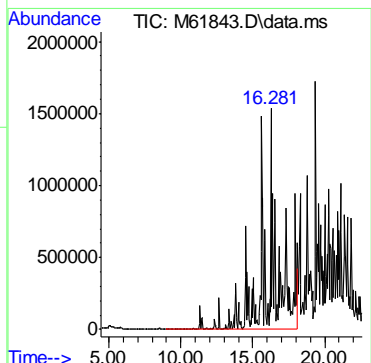
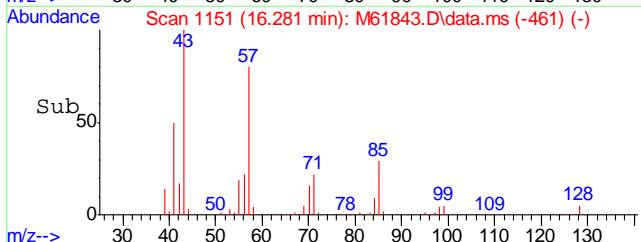
Tgt Ion:152 Resp: 134462
 Ion Ratio Lower Upper
 152 100
 115 90.2 37.3 77.3#
 150 153.1 176.0 216.0#



#100
 TPH-GRO (C6-C10)
 Concen: 1763.73 ppb m
 RT: 16.281 min Scan# 1151
 Delta R.T. 2.731 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm



Tgt Ion:TIC Resp:62591631



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61843.D
Acq On : 13 Jul 2016 6:30 pm
Operator : johannat
Sample : C46435-13R
Misc : MS1912,VM1859,5.43,,100,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 02 10:11:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include 1) Pentafluorobenzene, 40) 1,4-Difluorobenzene, 55) Chlorobenzene-d5, 77) 1,4-Dichlorobenzene-d4, 99) 1,4-Dichlorobenzene-d4A.

System Monitoring Compounds table with 7 columns: Compound Name, Spiked Amount, Range, QIon, Response, Conc, Units, Dev(Min). Rows include 36) Dibromofluoromethane, 56) Toluene-d8, 74) 4-Bromofluorobenzene.

Target Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Qvalue. Rows include 15) Methyl Acetate, 45) Benzene, 48) Methylcyclohexane, 57) Toluene, 67) Ethyl Benzene, 68) Xylene, m+p, 69) Xylene, o, 73) Isopropylbenzene, 79) n-Propylbenzene, 81) 1,3,5-Trimethylbenzene, 86) 1,2,4-Trimethylbenzene, 87) sec-Butylbenzene, 88) p-Isopropyltoluene, 92) n-Butylbenzene, 97) Naphthalene, 100) TPH-GRO (C6-C10).

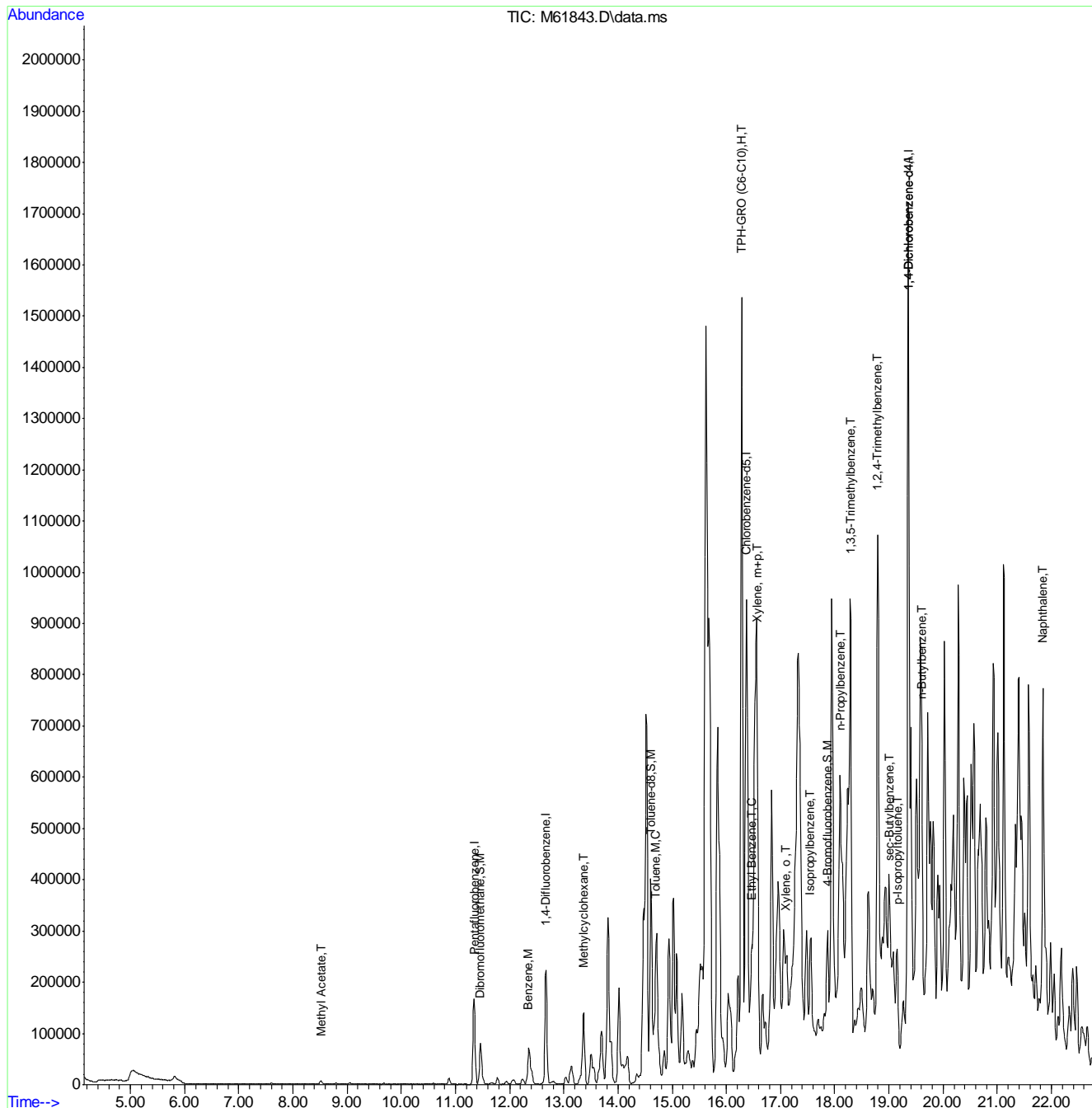
(#) = qualifier out of range (m) = manual integration (+) = signals summed

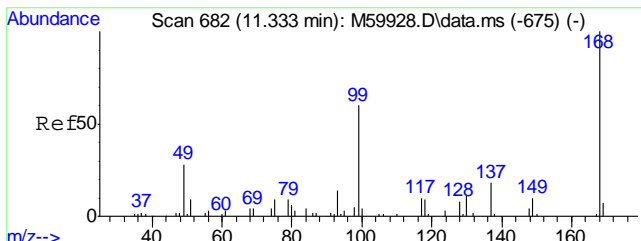
6.1.22 6

Quantitation Report (QT Reviewed)

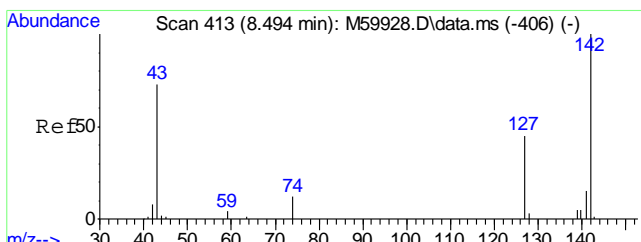
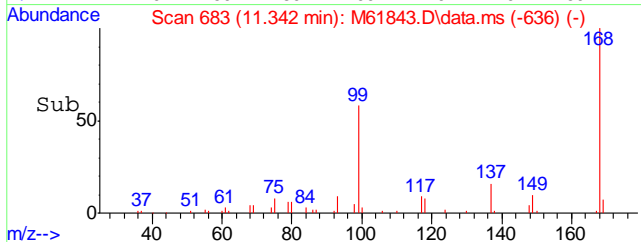
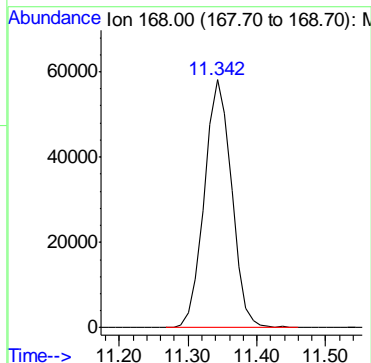
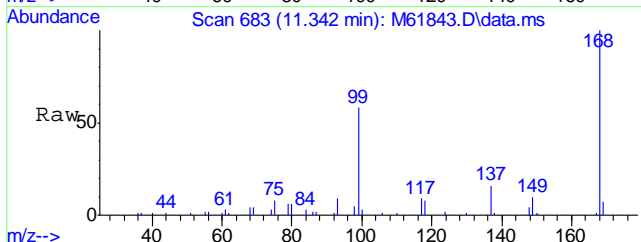
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61843.D
 Acq On : 13 Jul 2016 6:30 pm
 Operator : johannat
 Sample : C46435-13R
 Misc : MS1912,VM1859,5.43,,100,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 02 10:11:09 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

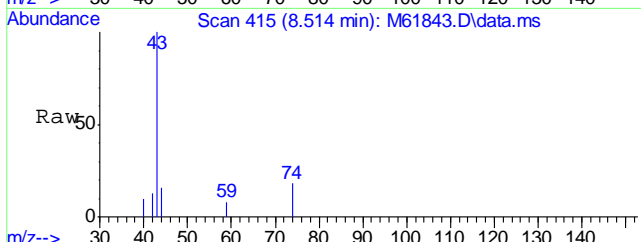




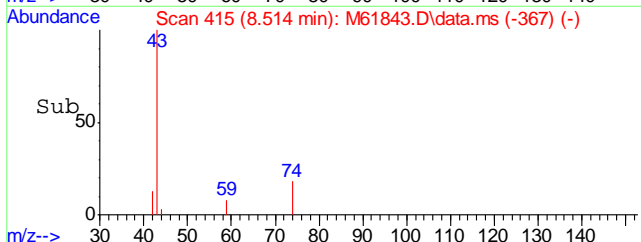
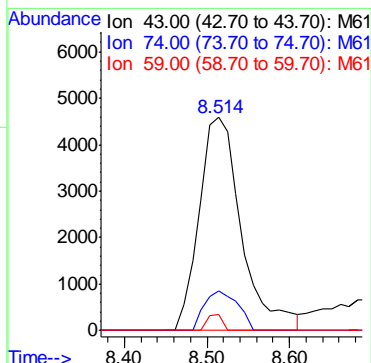
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.342 min Scan# 683
 Delta R.T. -0.001 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm
 Tgt Ion:168 Resp: 160027

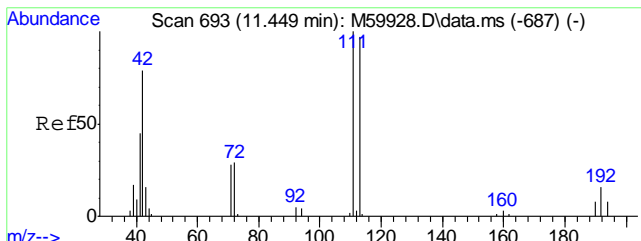


#15
 Methyl Acetate
 Concen: 3.33 ppb
 RT: 8.514 min Scan# 415
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm
 Tgt Ion: 43 Resp: 16381



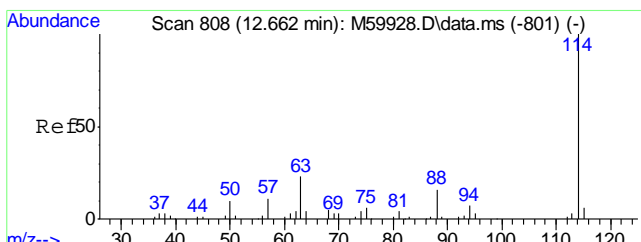
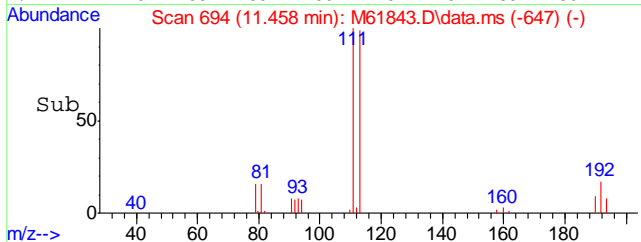
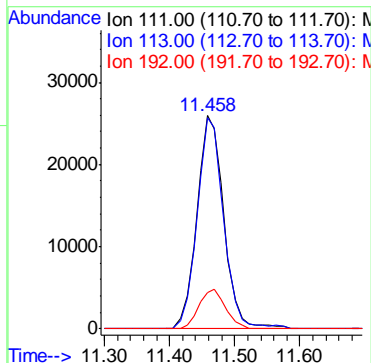
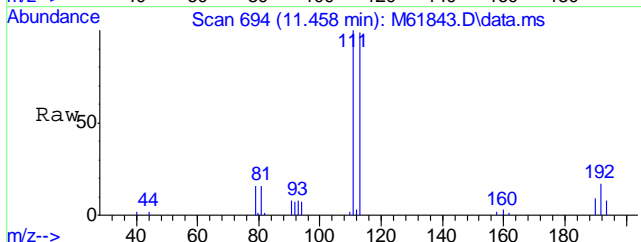
Ion	Ratio	Lower	Upper
43	100		
74	14.7	0.0	37.1
59	0.0	0.0	27.1





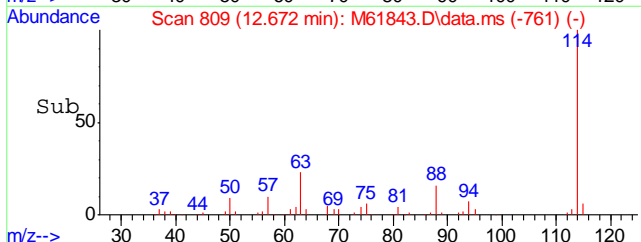
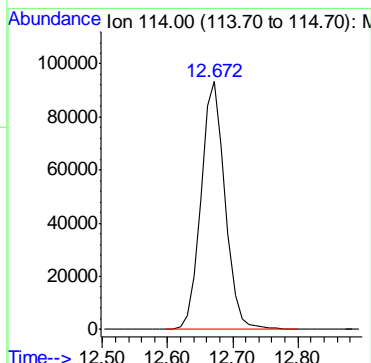
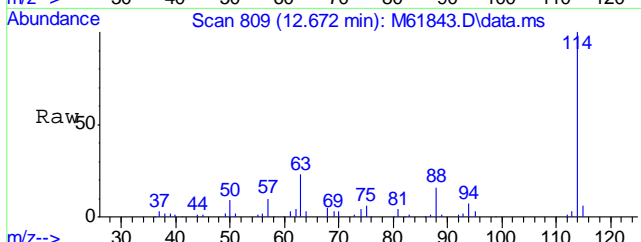
#36
 Dibromofluoromethane
 Concen: 18.49 ppb
 RT: 11.458 min Scan# 694
 Delta R.T. -0.001 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

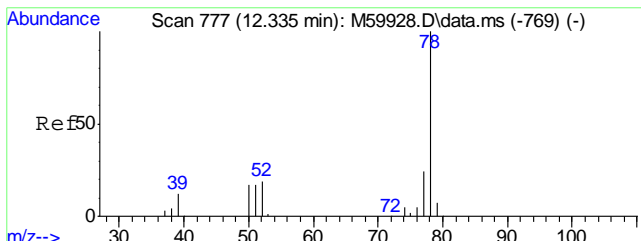
Tgt Ion	Resp	Lower	Upper
111	75034	100	
113	97.4	77.7	117.7
192	18.2	0.0	36.3



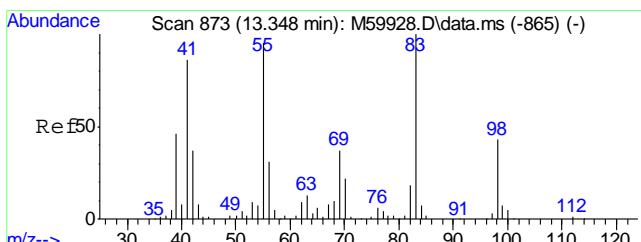
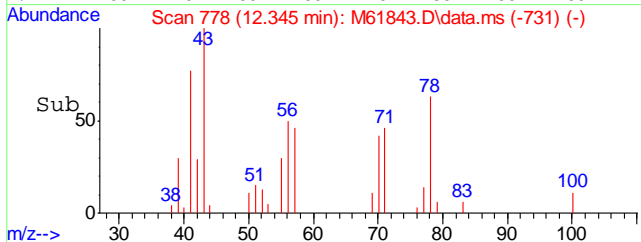
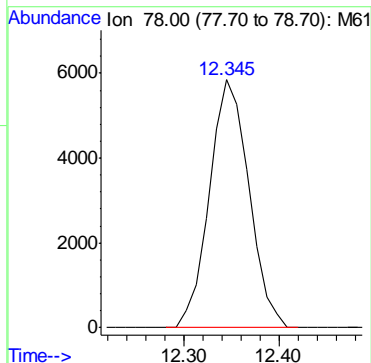
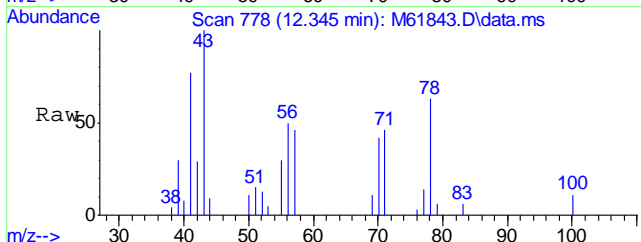
#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.672 min Scan# 809
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

Tgt Ion	Resp
114	241186



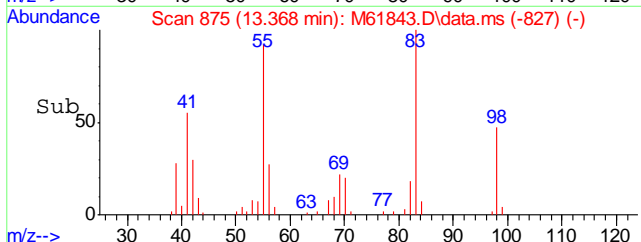
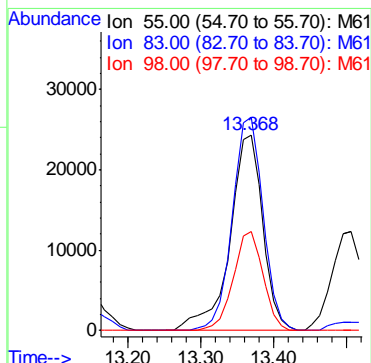
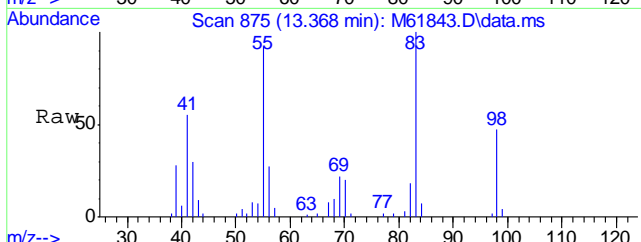


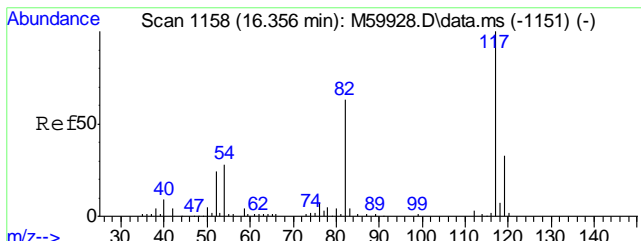
#45
Benzene
Concen: 0.80 ppb
RT: 12.345 min Scan# 778
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm
Tgt Ion: 78 Resp: 16789



#48
Methylcyclohexane
Concen: 8.61 ppb
RT: 13.368 min Scan# 875
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm
Tgt Ion: 55 Resp: 76361

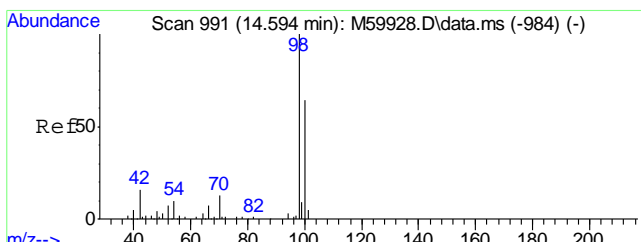
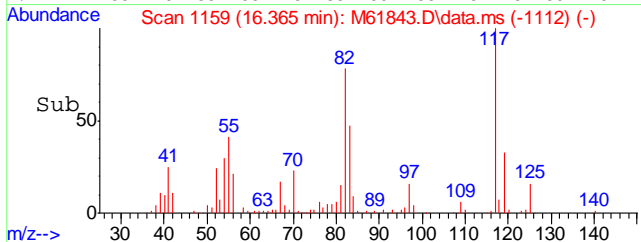
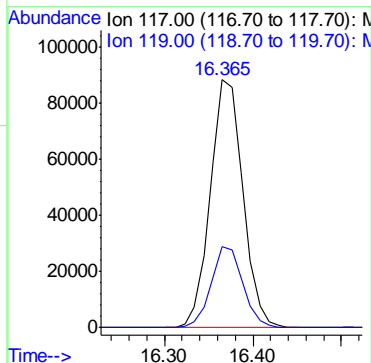
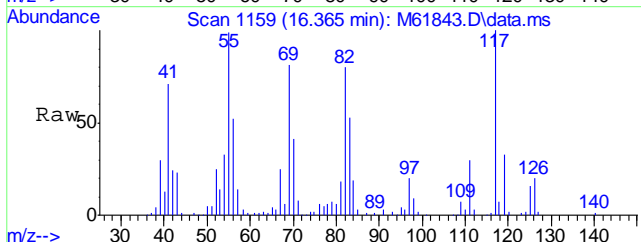
Ion	Ratio	Lower	Upper
55	100		
83	101.9	84.5	124.5
98	45.9	27.0	67.0





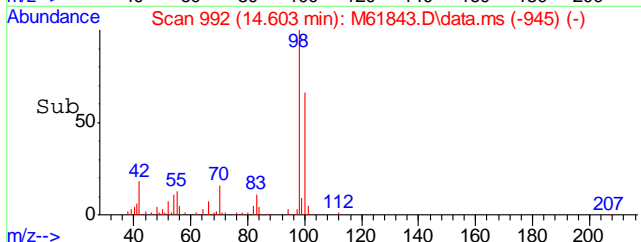
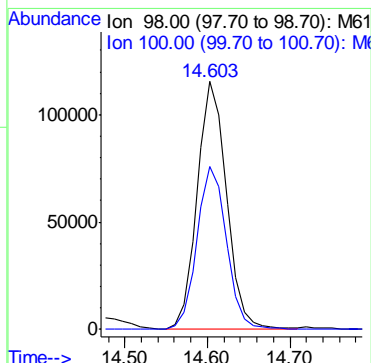
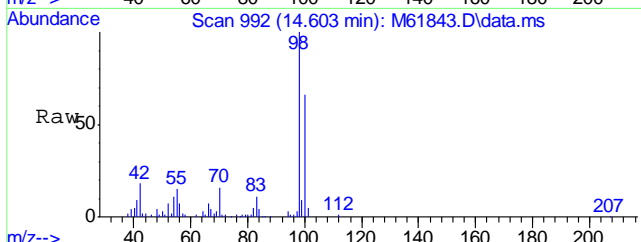
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.365 min Scan# 1159
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

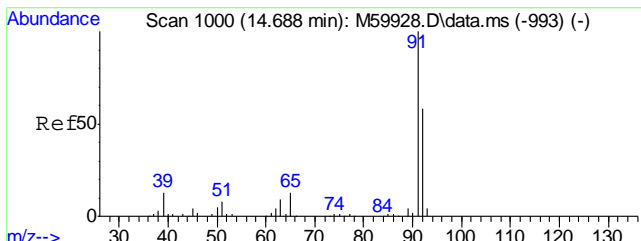
Tgt Ion	Resp	Lower	Upper
117	225989	100	
119	31.8	11.2	51.2



#56
Toluene-d8
Concen: 19.29 ppb
RT: 14.603 min Scan# 992
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

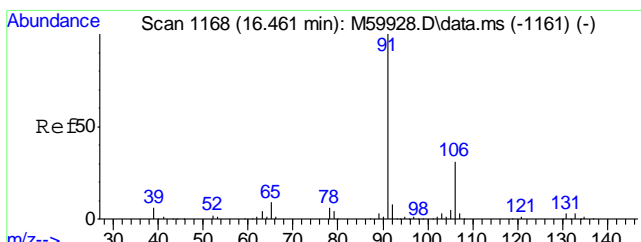
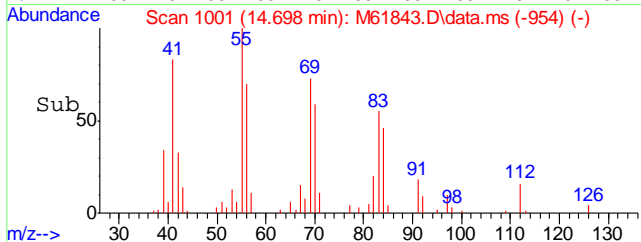
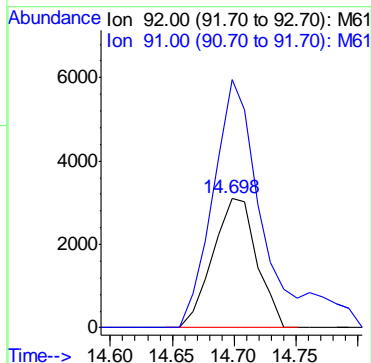
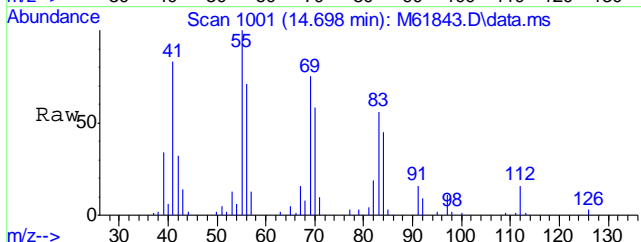
Tgt Ion	Resp	Lower	Upper
98	284549	100	
100	66.4	44.3	84.3





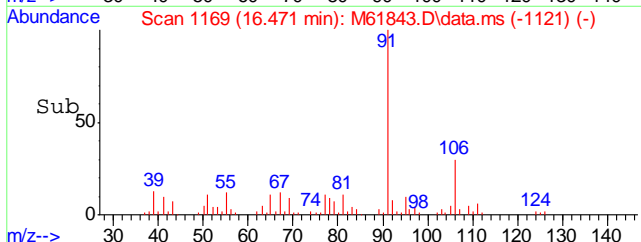
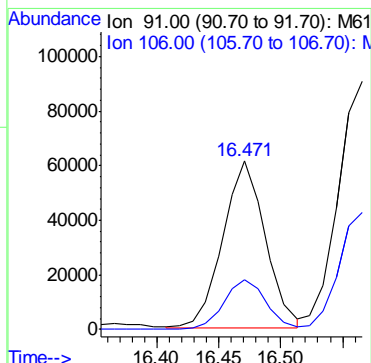
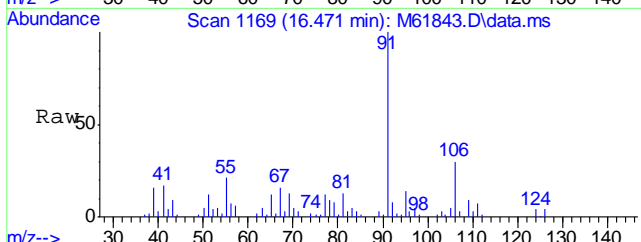
#57
Toluene
Concen: 0.62 ppb
RT: 14.698 min Scan# 1001
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

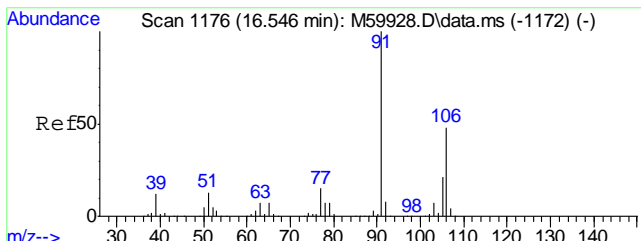
Tgt Ion: 92 Resp: 7714
Ion Ratio Lower Upper
92 100
91 221.1 150.5 190.5#



#67
Ethyl Benzene
Concen: 6.27 ppb
RT: 16.471 min Scan# 1169
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

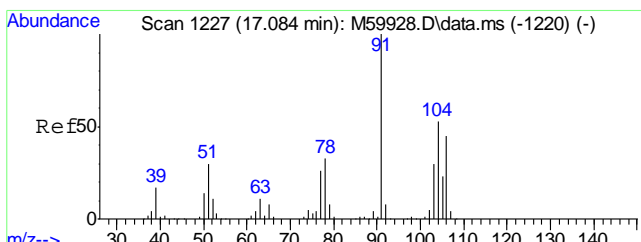
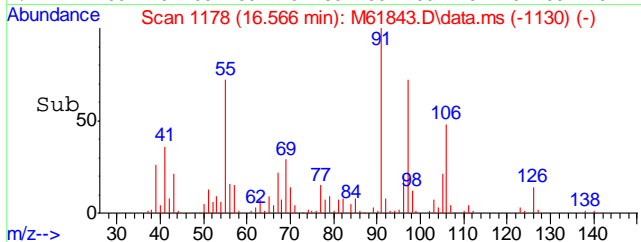
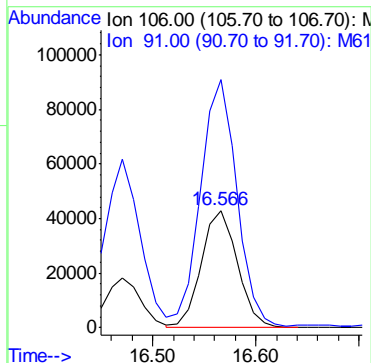
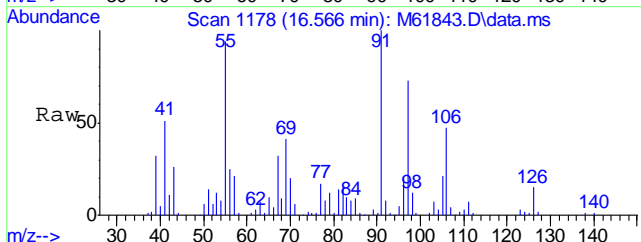
Tgt Ion: 91 Resp: 146860
Ion Ratio Lower Upper
91 100
106 29.5 10.2 50.2





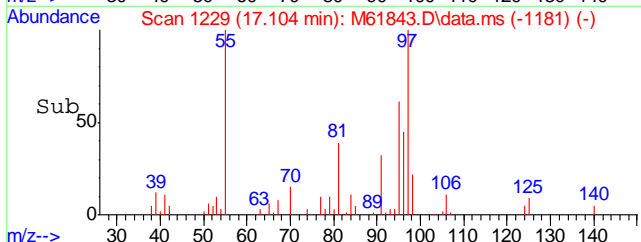
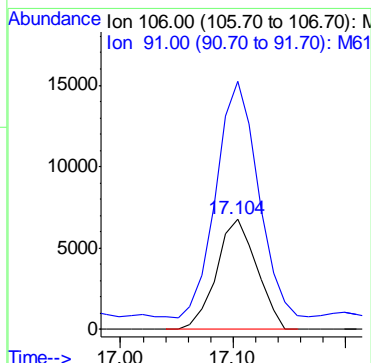
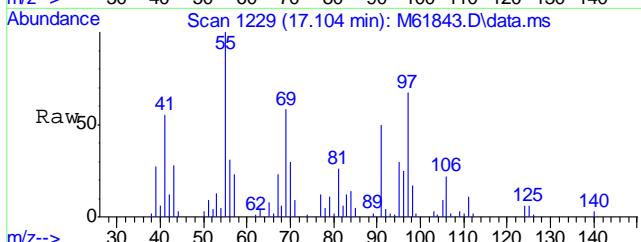
#68
Xylene, m+p
Concen: 12.12 ppb
RT: 16.566 min Scan# 1178
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

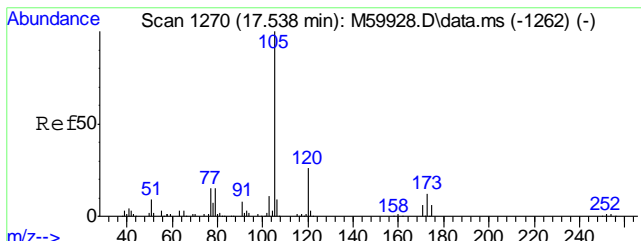
Tgt Ion	Resp	Lower	Upper
106	103770		
106	100		
91	210.2	191.5	231.5



#69
Xylene, o
Concen: 1.96 ppb
RT: 17.104 min Scan# 1229
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

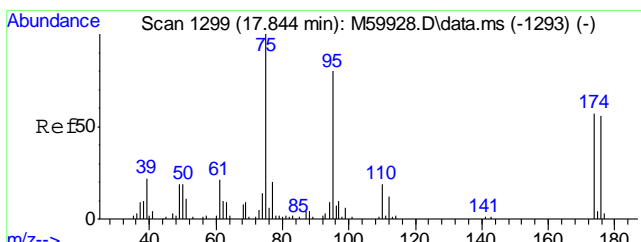
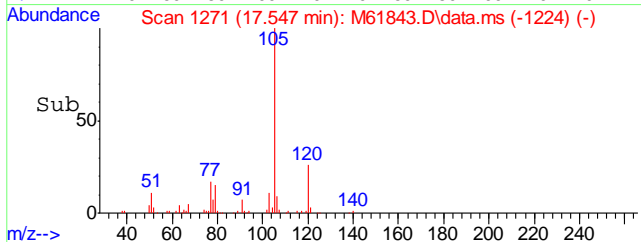
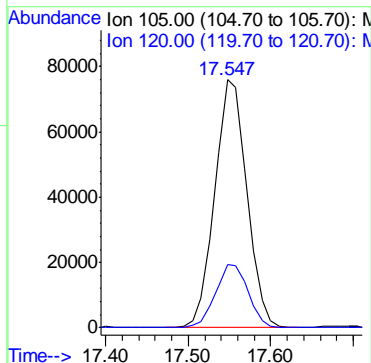
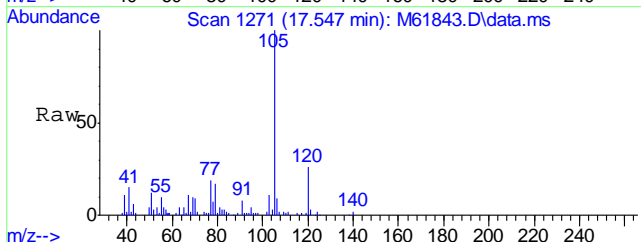
Tgt Ion	Resp	Lower	Upper
106	16902		
106	100		
91	221.6	203.2	243.2





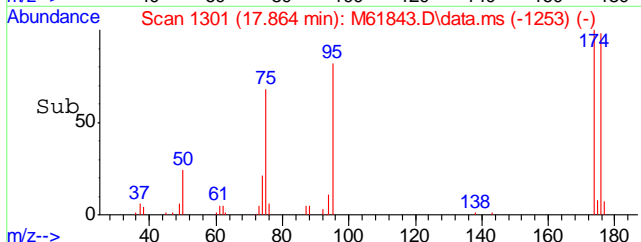
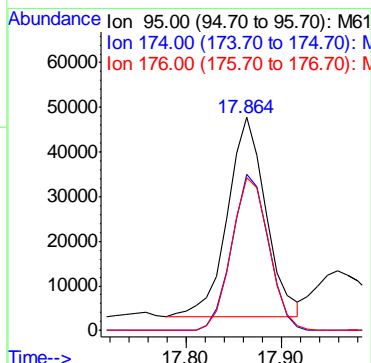
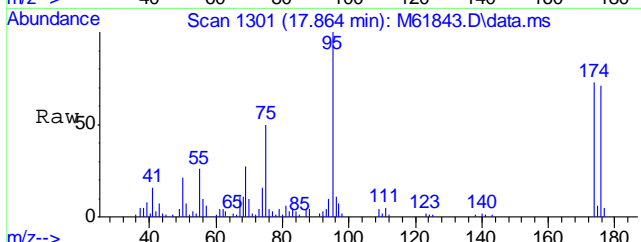
#73
Isopropylbenzene
Concen: 9.43 ppb
RT: 17.547 min Scan# 1271
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

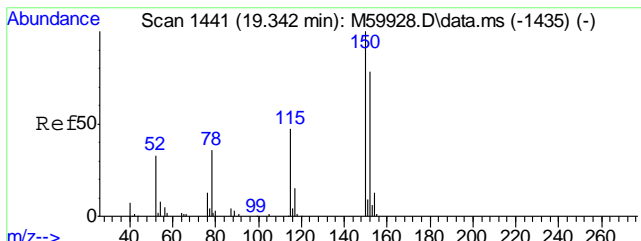
Tgt Ion	Resp	Lower	Upper
105	206147	100	
120	25.9	5.7	45.7



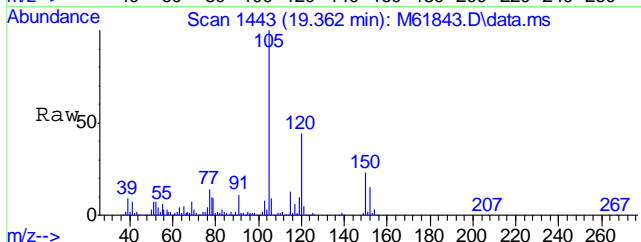
#74
4-Bromofluorobenzene
Concen: 21.62 ppb
RT: 17.864 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

Tgt Ion	Resp	Lower	Upper
95	125378	100	
174	74.6	54.3	94.3
176	73.9	51.5	91.5

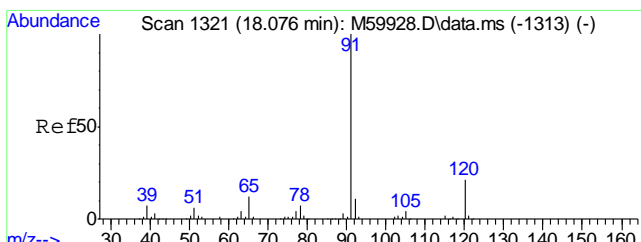
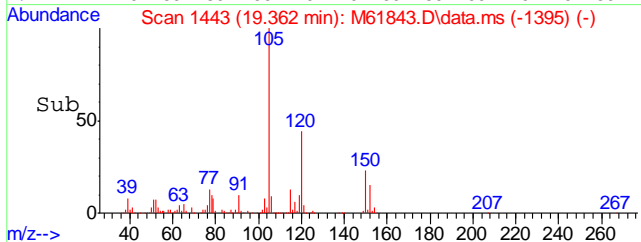
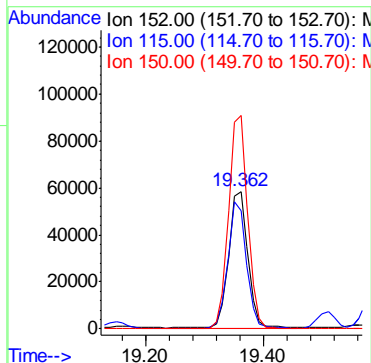




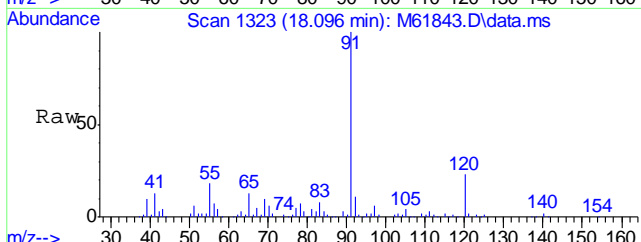
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.362 min Scan# 1443
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm



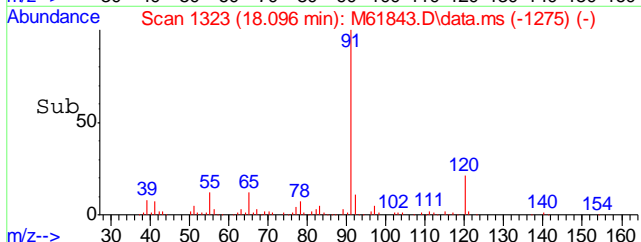
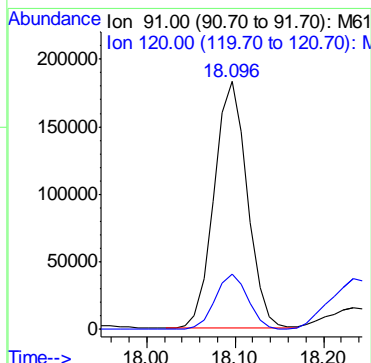
Tgt Ion	Resp	Lower	Upper
152	134462		
152	100		
115	90.2	40.9	80.9#
150	153.1	178.6	218.6#

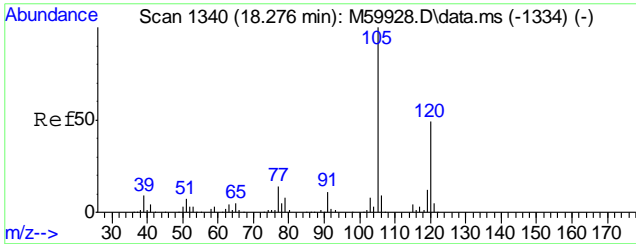


#79
 n-Propylbenzene
 Concen: 15.01 ppb
 RT: 18.096 min Scan# 1323
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm



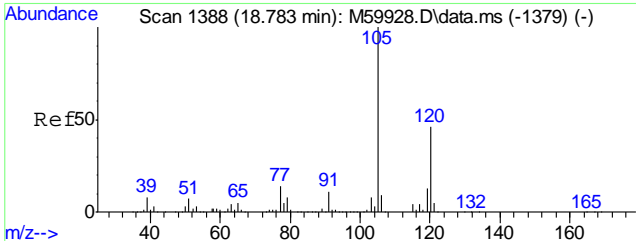
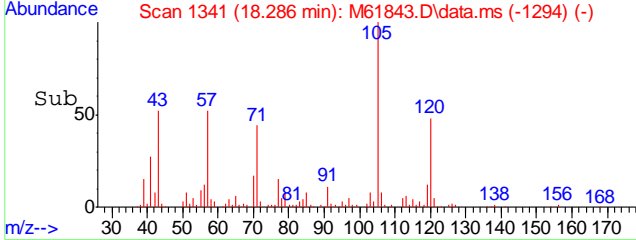
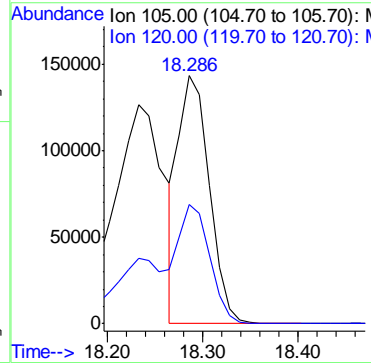
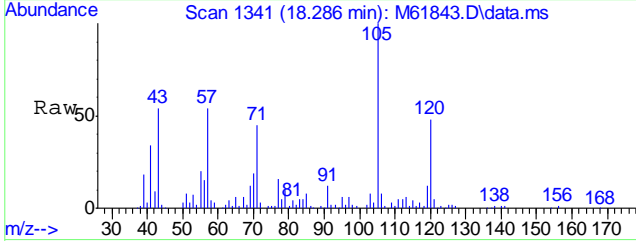
Tgt Ion	Resp	Lower	Upper
91	476261		
91	100		
120	22.2	1.3	41.3





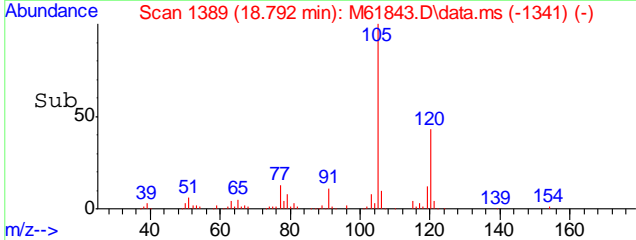
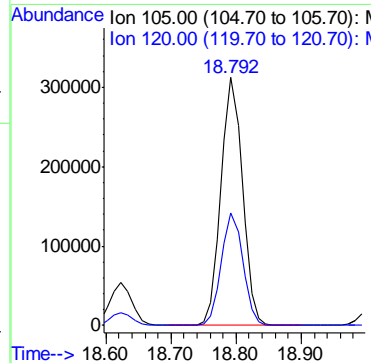
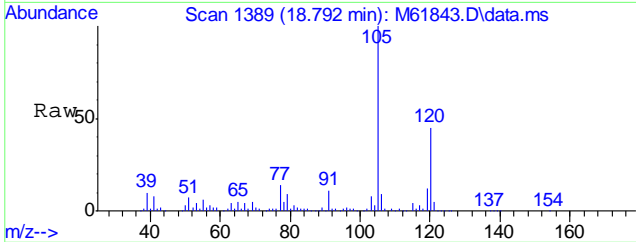
#81
1,3,5-Trimethylbenzene
Concen: 15.36 ppb
RT: 18.286 min Scan# 1341
Delta R.T. -0.001 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

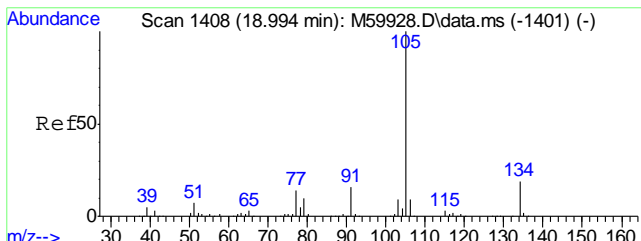
Tgt Ion	Resp	Lower	Upper
105	323055		
120	54.0	26.6	66.6



#86
1,2,4-Trimethylbenzene
Concen: 32.57 ppb
RT: 18.792 min Scan# 1389
Delta R.T. 0.009 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm

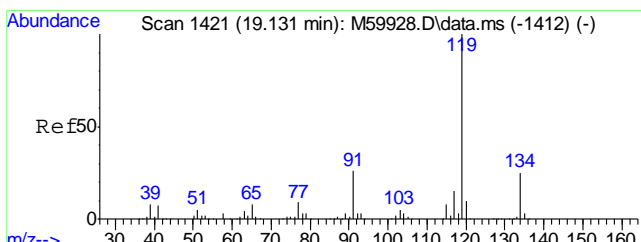
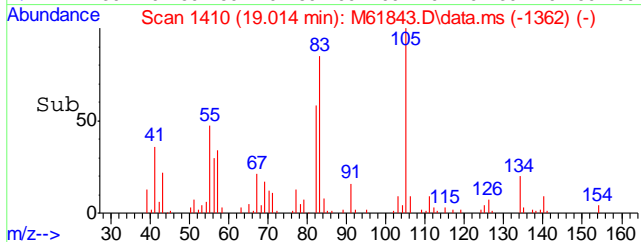
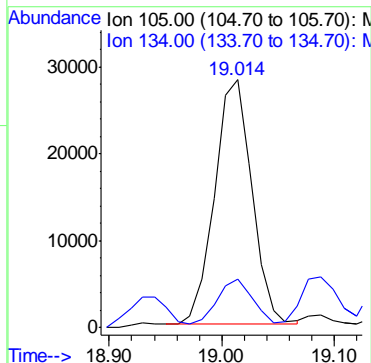
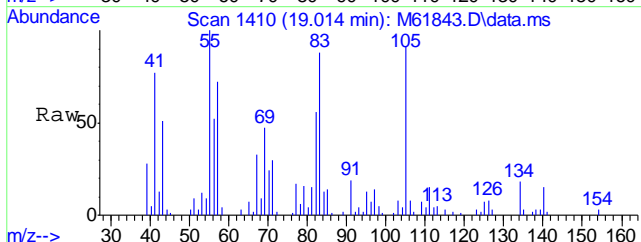
Tgt Ion	Resp	Lower	Upper
105	711276		
120	45.3	32.4	72.4





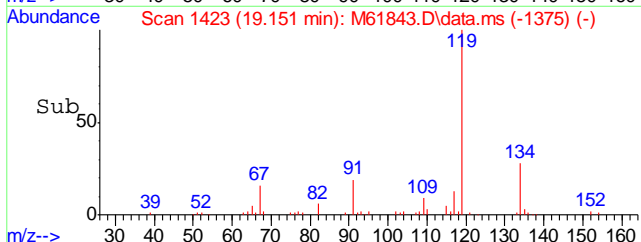
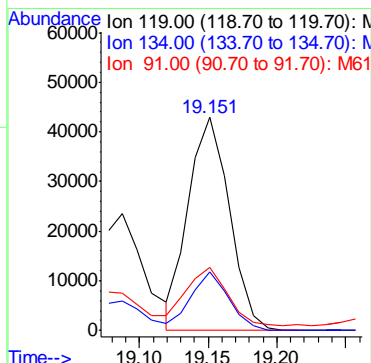
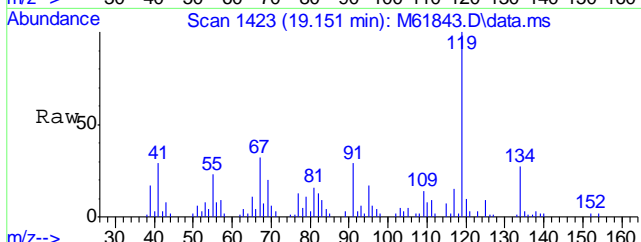
#87
 sec-Butylbenzene
 Concen: 2.36 ppb
 RT: 19.014 min Scan# 1410
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

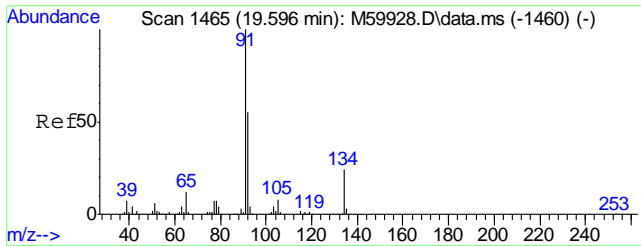
Tgt Ion	Resp	Lower	Upper
105	64866	100	
134	19.8	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 3.96 ppb
 RT: 19.151 min Scan# 1423
 Delta R.T. 0.009 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

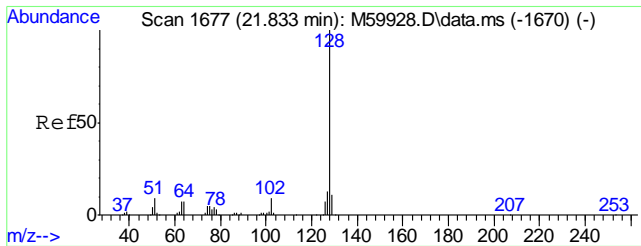
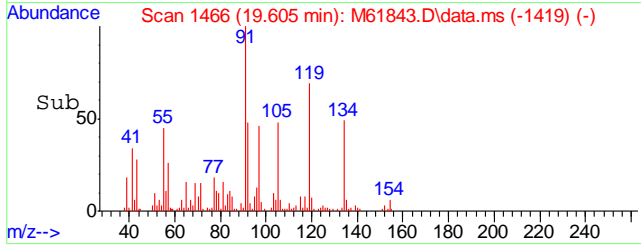
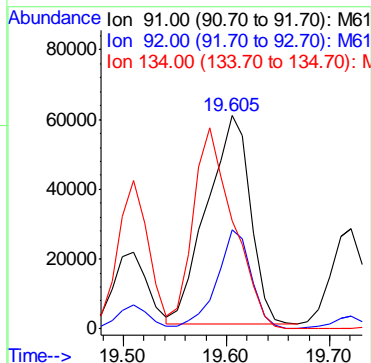
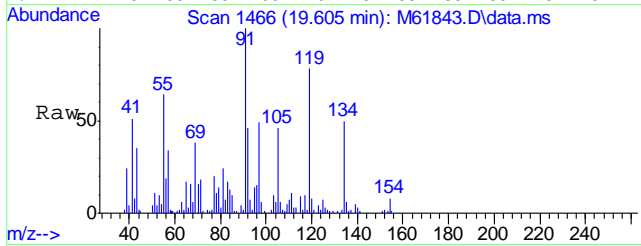
Tgt Ion	Resp	Lower	Upper
119	89174	100	
134	25.5	6.0	46.0
91	28.1	6.0	46.0





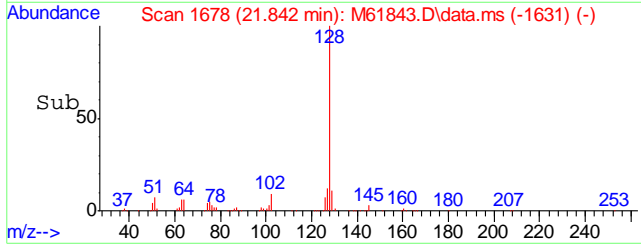
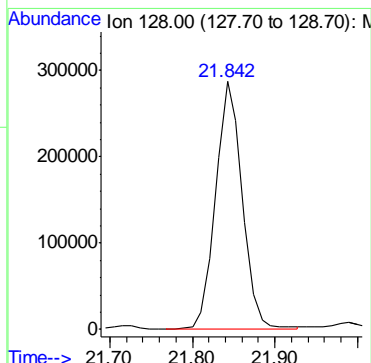
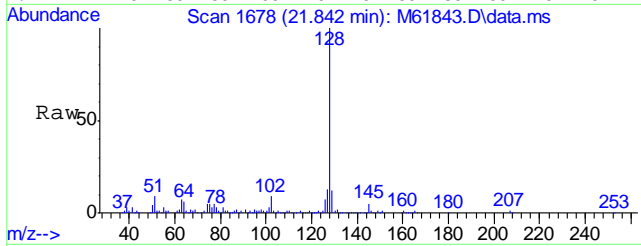
#92
 n-Butylbenzene
 Concen: 7.66 ppb
 RT: 19.605 min Scan# 1466
 Delta R.T. -0.001 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

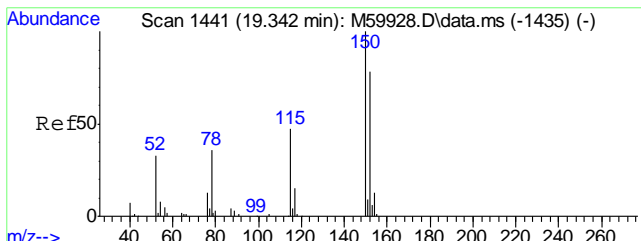
Tgt Ion	Resp	Lower	Upper
91	175436		
92	37.8	35.3	75.3
134	88.9	3.6	43.6#



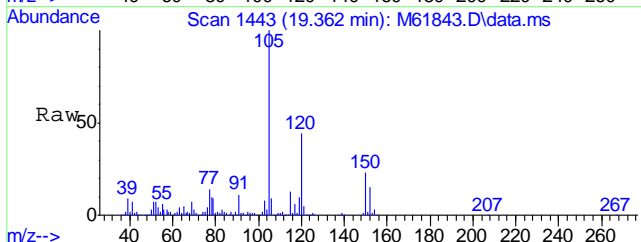
#97
 Naphthalene
 Concen: 36.54 ppb
 RT: 21.842 min Scan# 1678
 Delta R.T. -0.001 min
 Lab File: M61843.D
 Acq: 13 Jul 2016 6:30 pm

Tgt Ion: 128 Resp: 645712

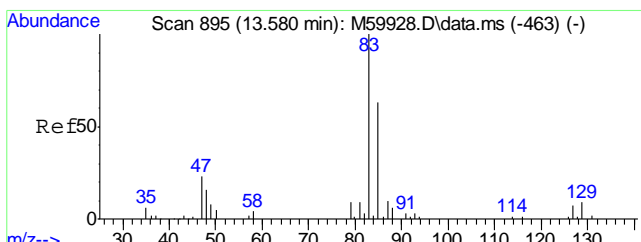
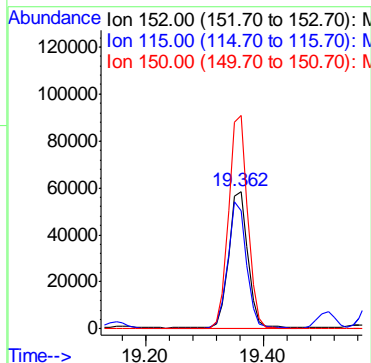
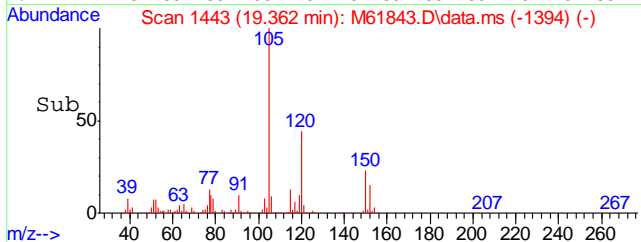




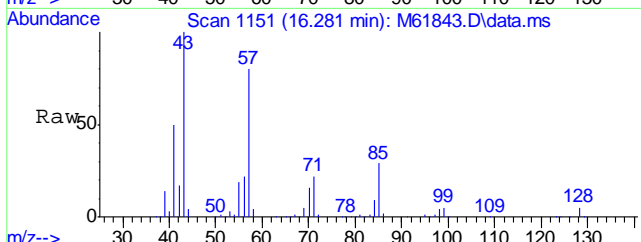
#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.362 min Scan# 1443
Delta R.T. 0.020 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm



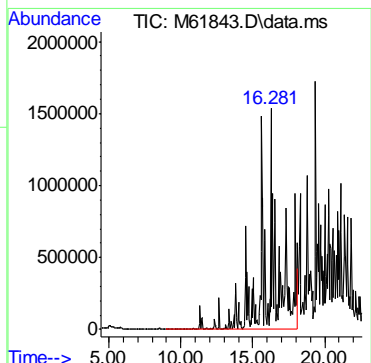
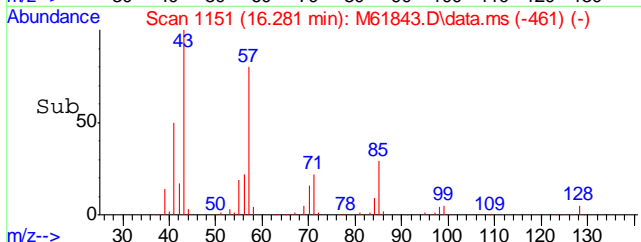
Tgt Ion:152 Resp: 134462
Ion Ratio Lower Upper
152 100
115 90.2 37.3 77.3#
150 153.1 176.0 216.0#



#100
TPH-GRO (C6-C10)
Concen: 1763.73 ppb m
RT: 16.281 min Scan# 1151
Delta R.T. 2.731 min
Lab File: M61843.D
Acq: 13 Jul 2016 6:30 pm



Tgt Ion:TIC Resp:62591631



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61844.D
 Acq On : 13 Jul 2016 6:59 pm
 Operator : johannat
 Sample : C46435-14R
 Misc : MS1912,VM1859,5.31,,100,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 02 10:11:21 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.340	168	183542	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.669	114	272447	20.00	ppb	0.00
55) Chlorobenzene-d5	16.373	117	255969	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	154344	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	154344	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.466	111	83350	17.91	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	89.55%		
56) Toluene-d8	14.601	98	316151	18.92	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.60%		
74) 4-Bromofluorobenzene	17.861	95	150494	22.91	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	114.55%		

Target Compounds

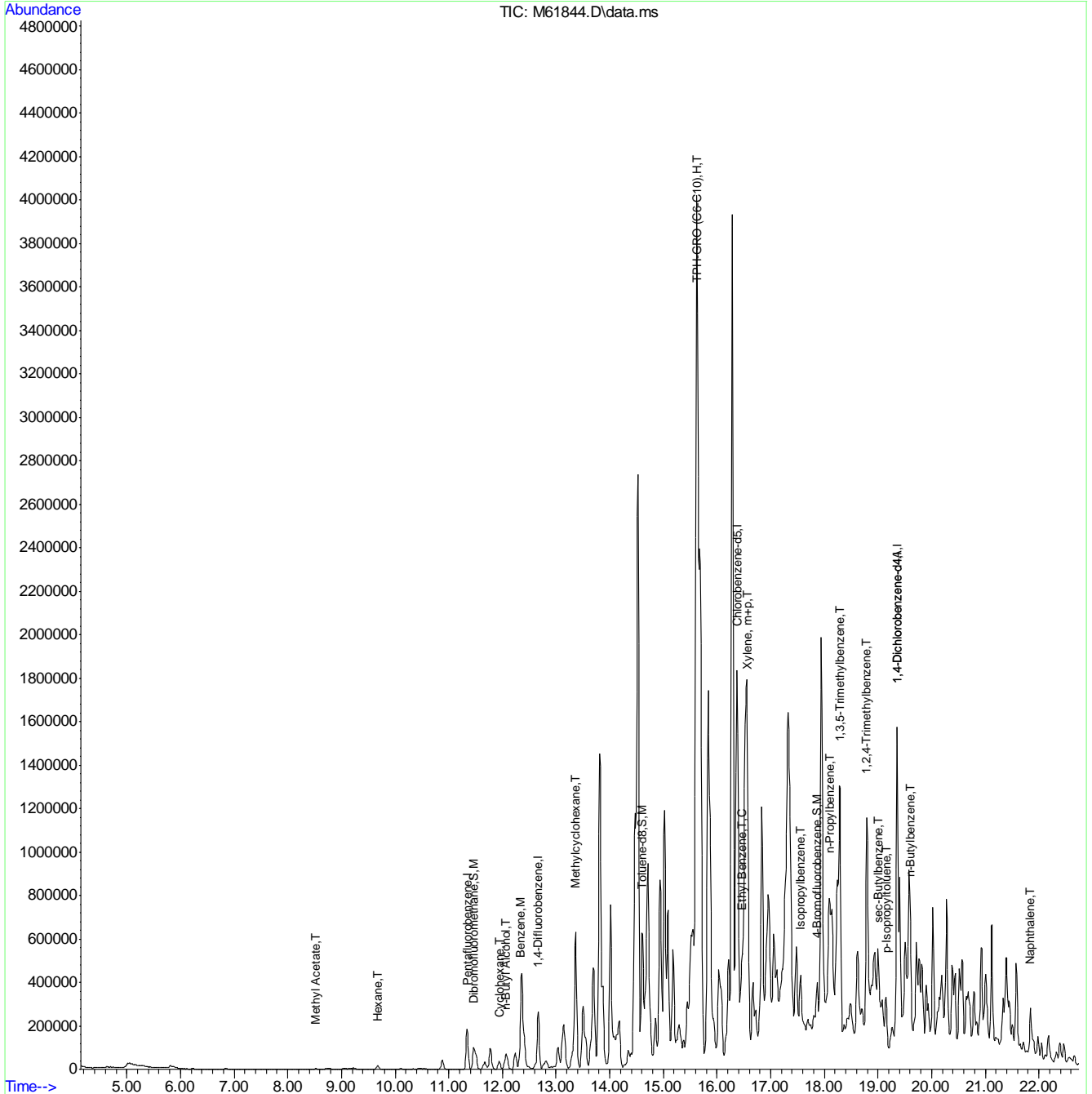
						Qvalue
15) Methyl Acetate	8.522	43	5068	0.90	ppb	# 66
24) Hexane	9.683	57	12889	1.34	ppb	99
38) Cyclohexane	11.941	56	26725	2.23	ppb	97
42) n-Butyl Alcohol	12.068	56	41068	311.24	ppb	91
45) Benzene	12.342	78	19369	0.81	ppb	100
48) Methylcyclohexane	13.366	55	334561	33.41	ppb	97
67) Ethyl Benzene	16.468	91	245675	9.25	ppb	98
68) Xylene, m+p	16.563	106	140390	14.48	ppb	97
73) Isopropylbenzene	17.555	105	256295	10.35	ppb	98
79) n-Propylbenzene	18.094	91	504969	13.86	ppb	98
81) 1,3,5-Trimethylbenzene	18.283	105	392213	16.25	ppb	98
86) 1,2,4-Trimethylbenzene	18.790	105	715137	28.53	ppb	91
87) sec-Butylbenzene	19.012	105	73443	2.33	ppb	98
88) p-Isopropyltoluene	19.149	119	104571	4.05	ppb	98
92) n-Butylbenzene	19.603	91	170021	6.47	ppb	# 38
97) Naphthalene	21.840	128	209254	10.32	ppb	100
100) TPH-GRO (C6-C10)	15.624	TIC	157024264m	3993.56	ppb	

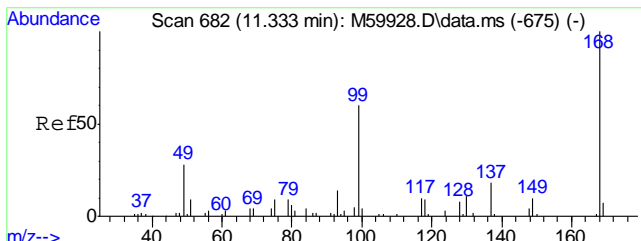
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

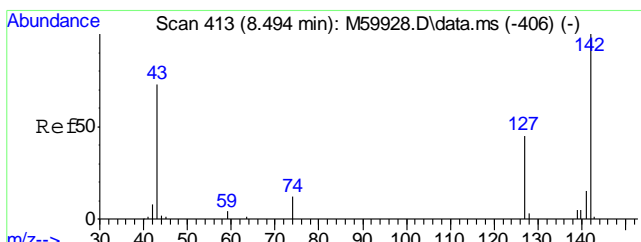
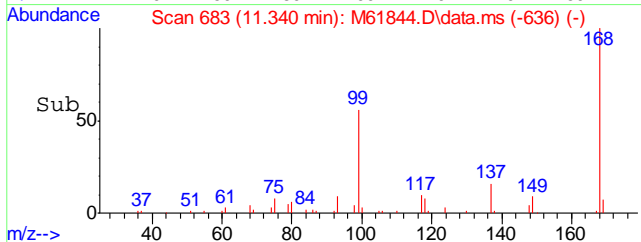
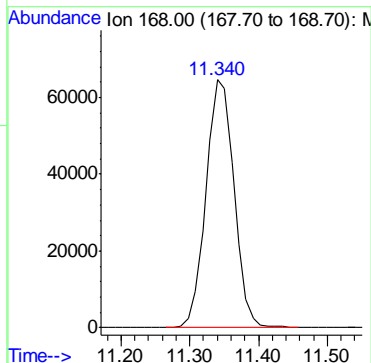
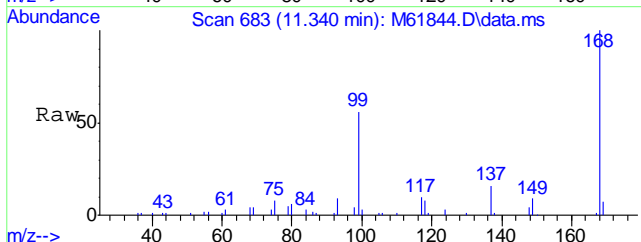
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61844.D
 Acq On : 13 Jul 2016 6:59 pm
 Operator : johannat
 Sample : C46435-14R
 Misc : MS1912,VM1859,5.31,,100,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 02 10:11:21 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration



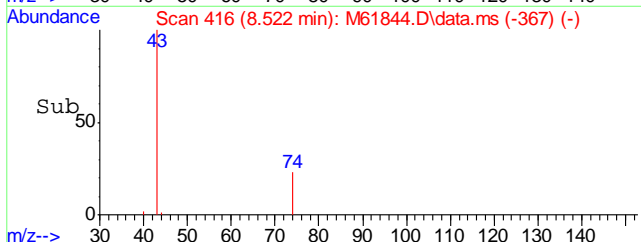
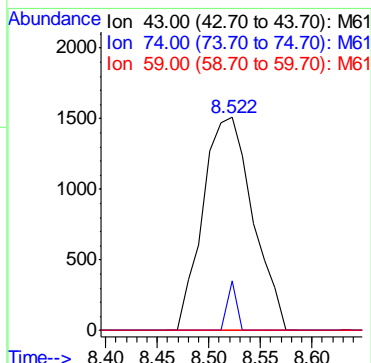
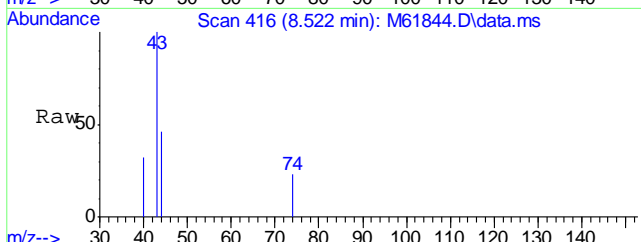


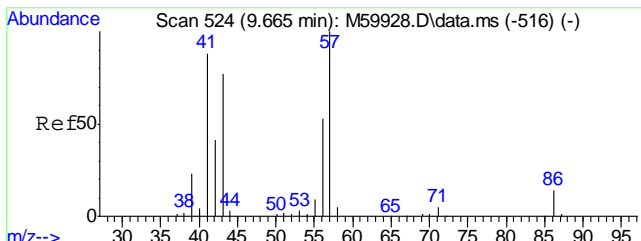
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.004 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm
 Tgt Ion:168 Resp: 183542



#15
 Methyl Acetate
 Concen: 0.90 ppb
 RT: 8.522 min Scan# 416
 Delta R.T. 0.018 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm
 Tgt Ion: 43 Resp: 5068

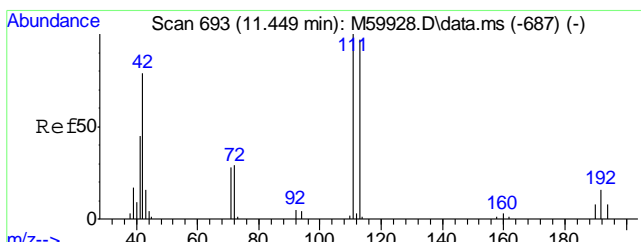
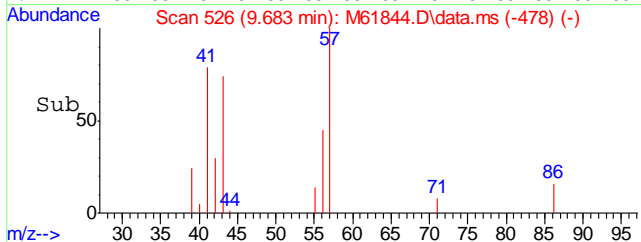
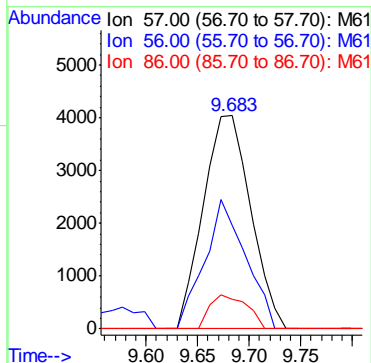
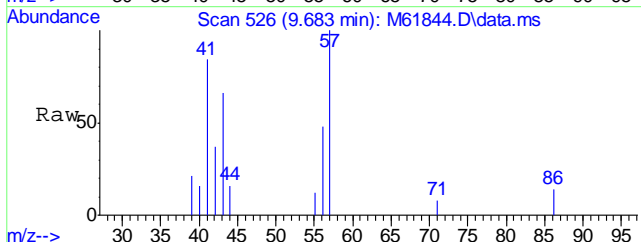
Ion	Ratio	Lower	Upper
43	100		
74	0.0	0.0	37.1
59	0.0	0.0	27.1





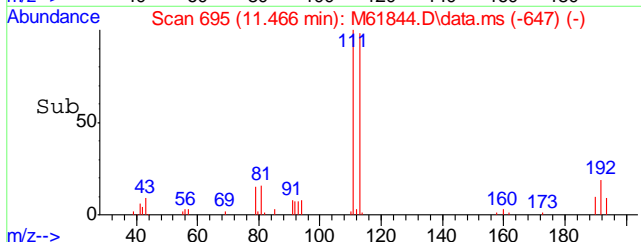
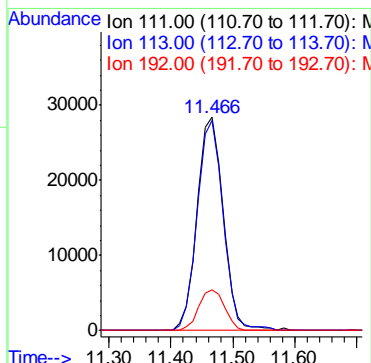
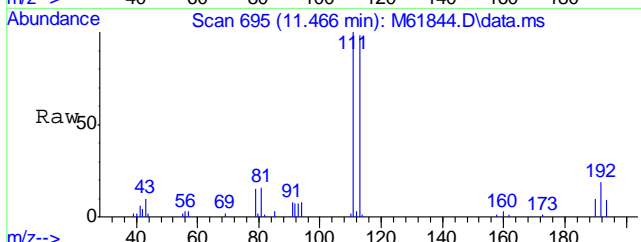
#24
Hexane
Concen: 1.34 ppb
RT: 9.683 min Scan# 526
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

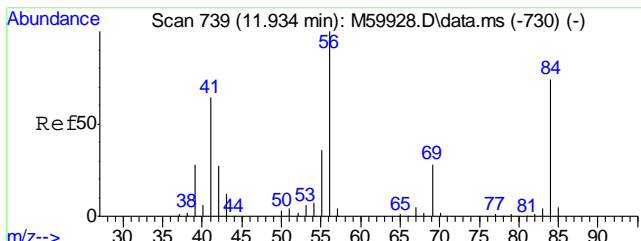
Tgt Ion	Resp	Lower	Upper
57	12889		
56	52.6	32.9	72.9
86	12.4	0.0	34.1



#36
Dibromofluoromethane
Concen: 17.91 ppb
RT: 11.466 min Scan# 695
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

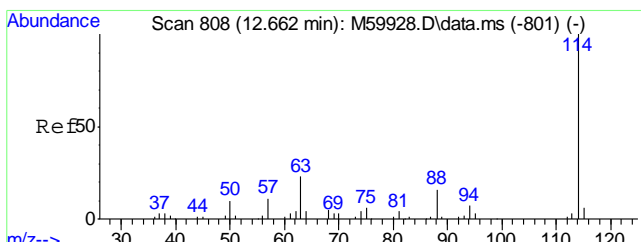
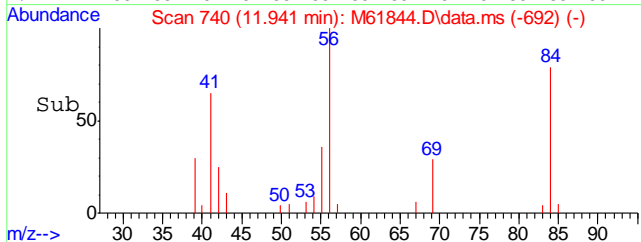
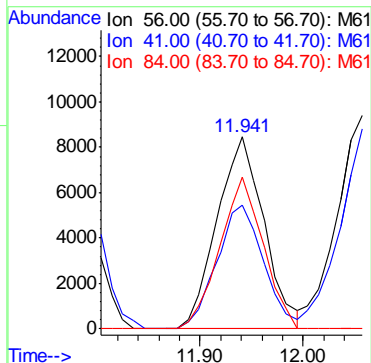
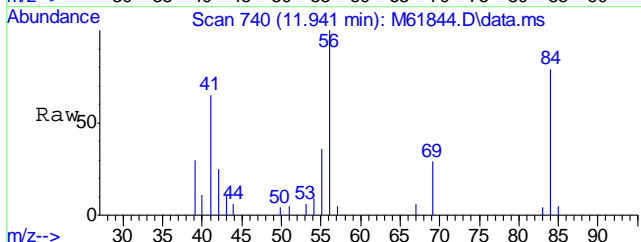
Tgt Ion	Resp	Lower	Upper
111	83350		
113	97.4	77.7	117.7
192	18.8	0.0	36.3





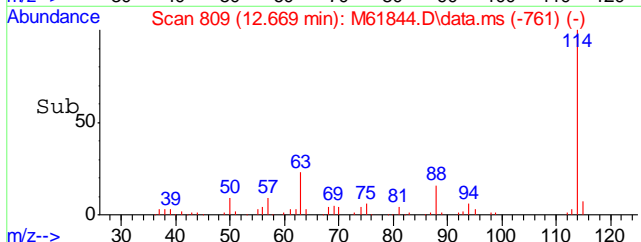
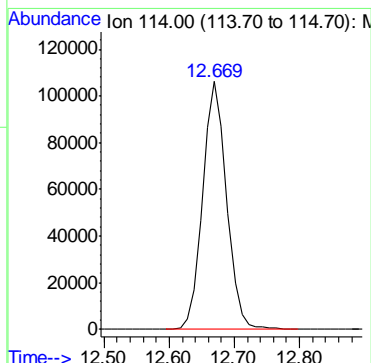
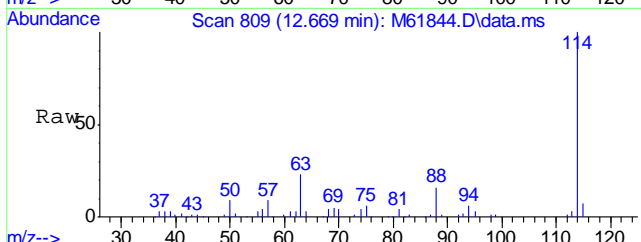
#38
Cyclohexane
Concen: 2.23 ppb
RT: 11.941 min Scan# 740
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

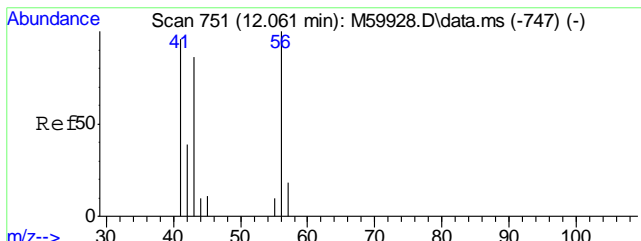
Tgt Ion	Resp	Lower	Upper
56	100		
41	64.4	46.3	86.3
84	73.2	56.0	96.0



#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.669 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

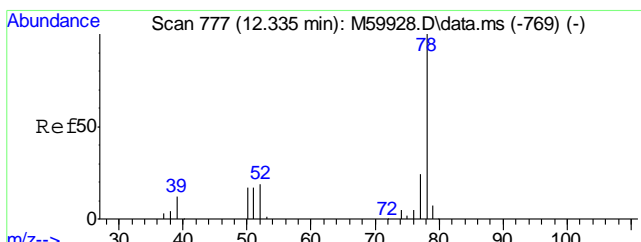
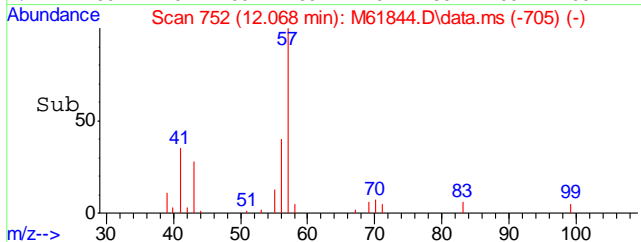
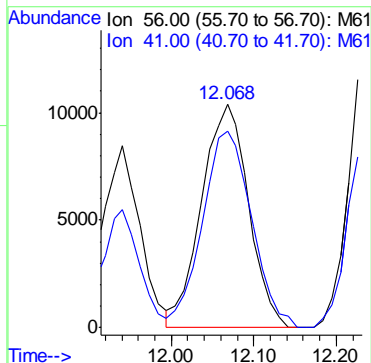
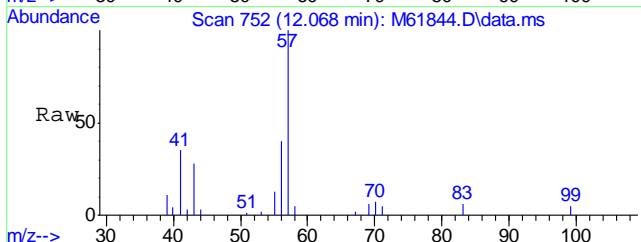
Tgt Ion	Resp
114	272447





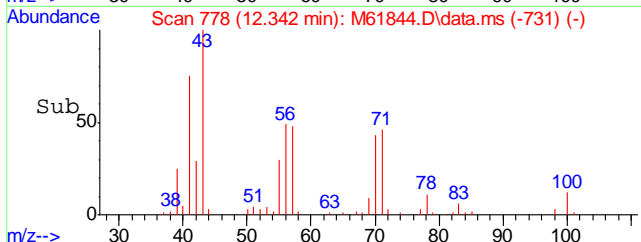
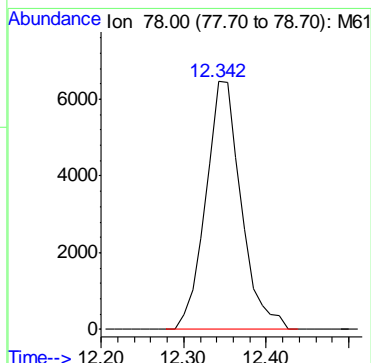
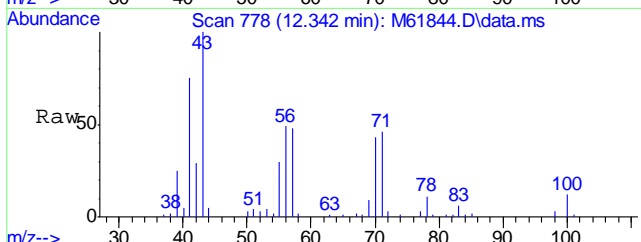
#42
n-Butyl Alcohol
Concen: 311.24 ppb
RT: 12.068 min Scan# 752
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

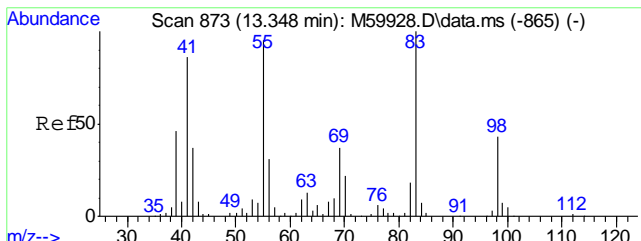
Tgt Ion: 56 Resp: 41068
Ion Ratio Lower Upper
56 100
41 91.9 63.5 103.5



#45
Benzene
Concen: 0.81 ppb
RT: 12.342 min Scan# 778
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

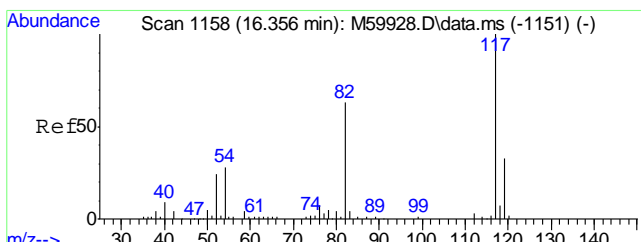
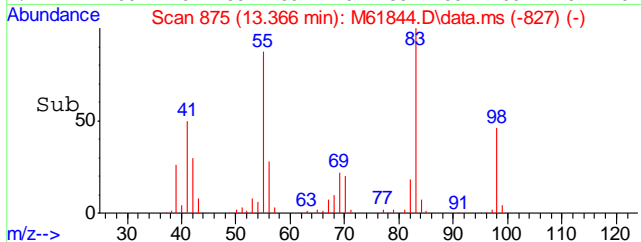
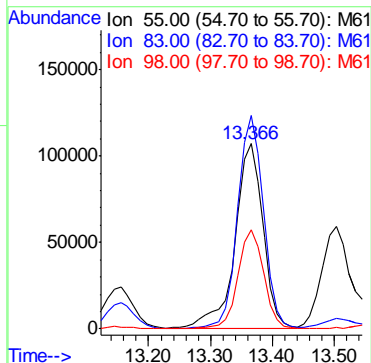
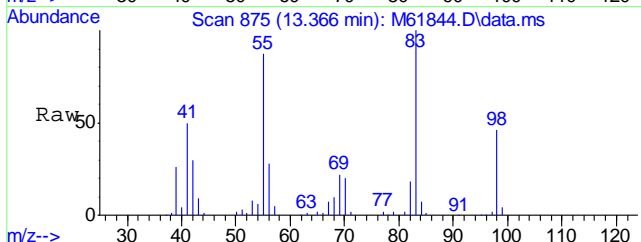
Tgt Ion: 78 Resp: 19369





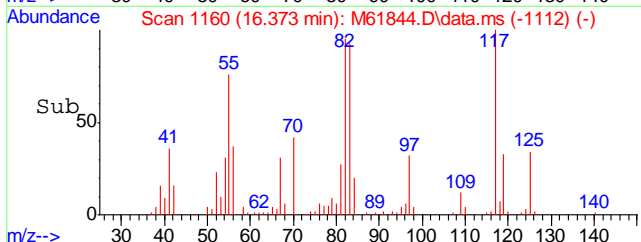
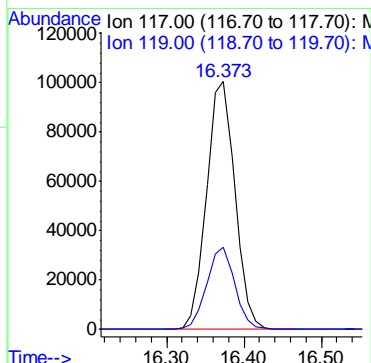
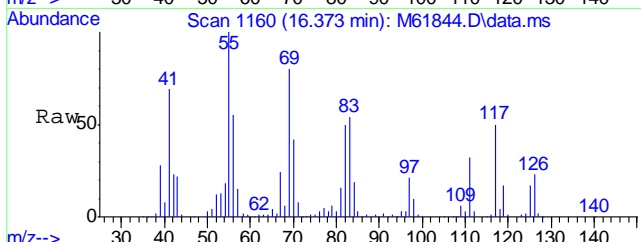
#48
 Methylcyclohexane
 Concen: 33.41 ppb
 RT: 13.366 min Scan# 875
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

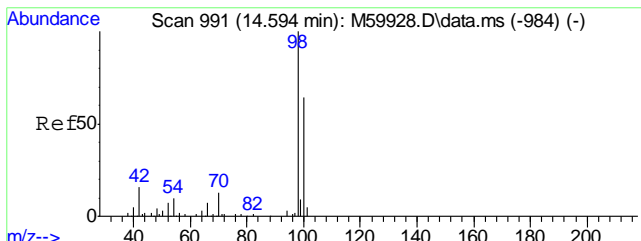
Tgt Ion	Resp	Lower	Upper
55	334561		
55	100		
83	107.6	84.5	124.5
98	49.6	27.0	67.0



#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.373 min Scan# 1160
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

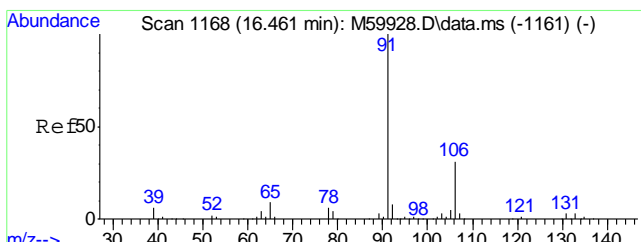
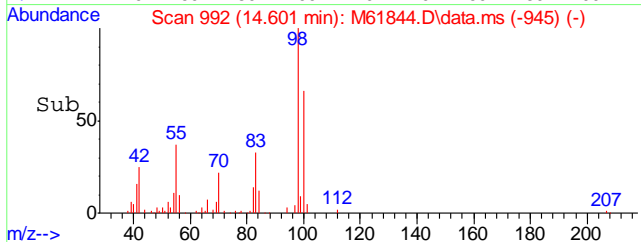
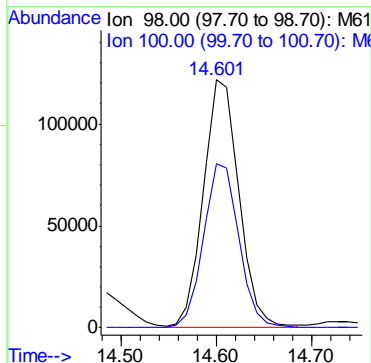
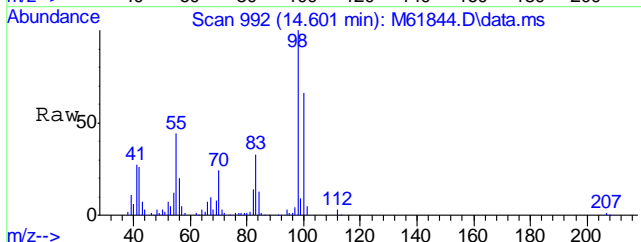
Tgt Ion	Resp	Lower	Upper
117	255969		
117	100		
119	32.5	11.2	51.2





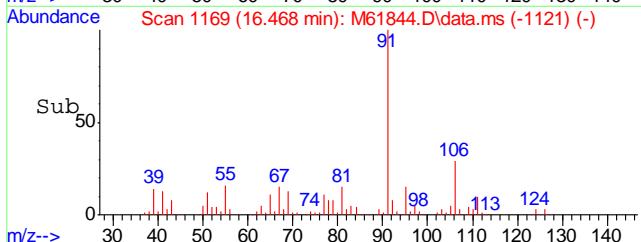
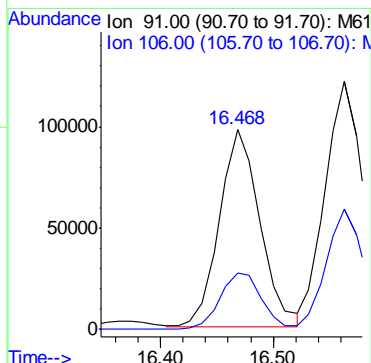
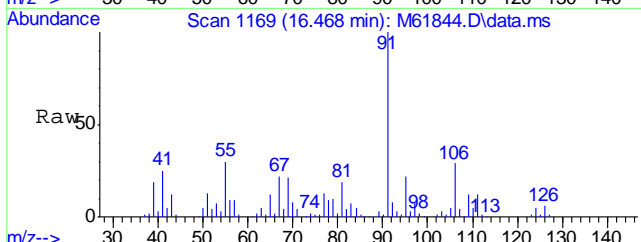
#56
Toluene-d8
Concen: 18.92 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

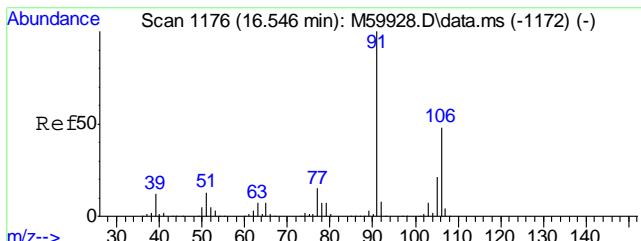
Tgt Ion	Resp	Lower	Upper
98	316151	100	
100	65.7	44.3	84.3



#67
Ethyl Benzene
Concen: 9.25 ppb
RT: 16.468 min Scan# 1169
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

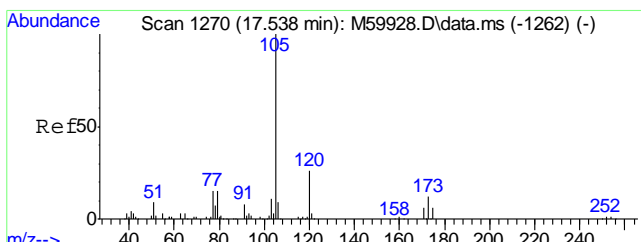
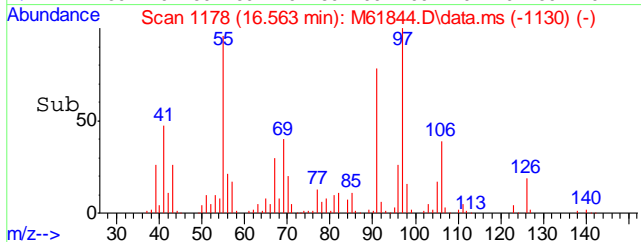
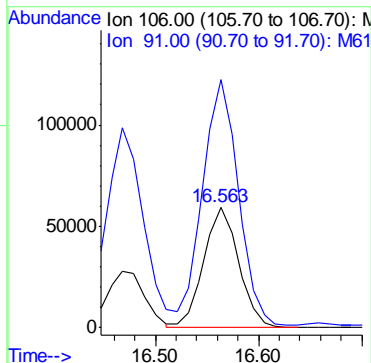
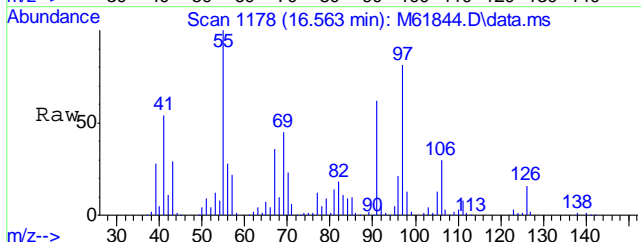
Tgt Ion	Resp	Lower	Upper
91	245675	100	
106	29.1	10.2	50.2





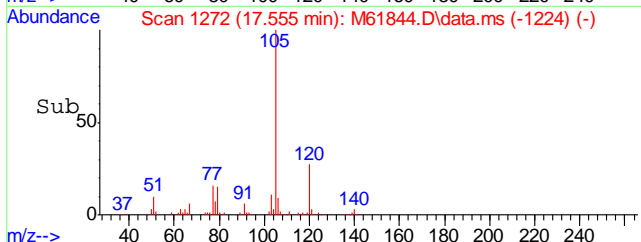
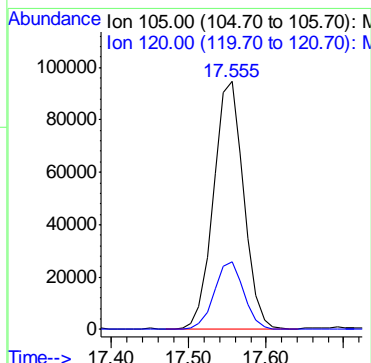
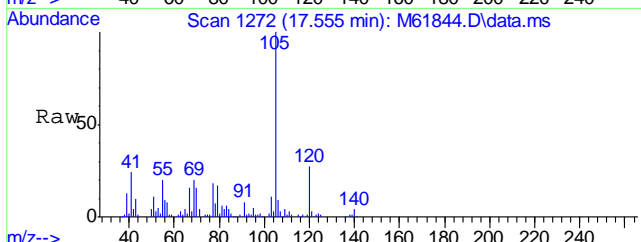
#68
 Xylene, m+p
 Concen: 14.48 ppb
 RT: 16.563 min Scan# 1178
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

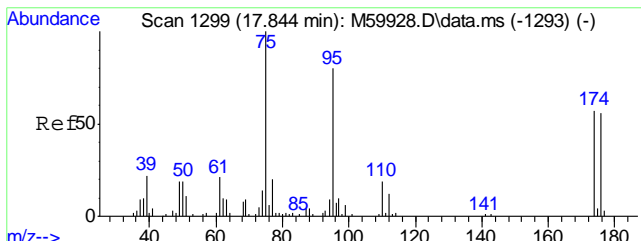
Tgt Ion:	106	Resp:	140390
Ion Ratio	Lower	Upper	
106	100		
91	206.2	191.5	231.5



#73
 Isopropylbenzene
 Concen: 10.35 ppb
 RT: 17.555 min Scan# 1272
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

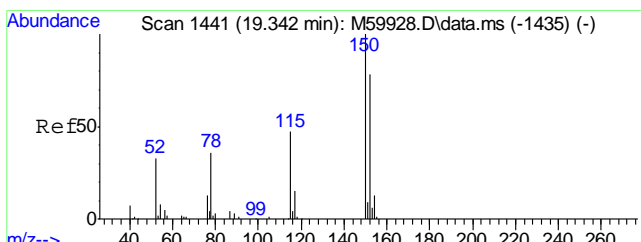
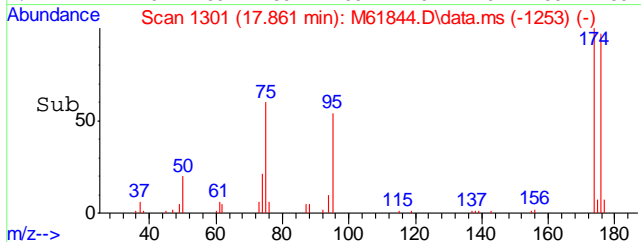
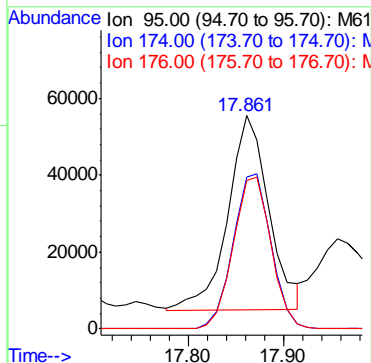
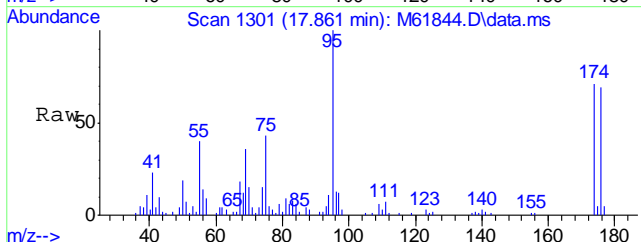
Tgt Ion:	105	Resp:	256295
Ion Ratio	Lower	Upper	
105	100		
120	26.7	5.7	45.7





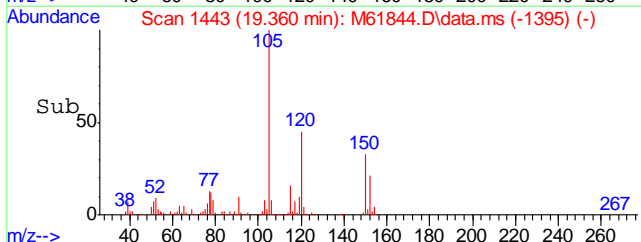
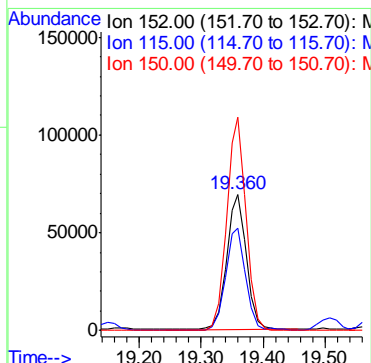
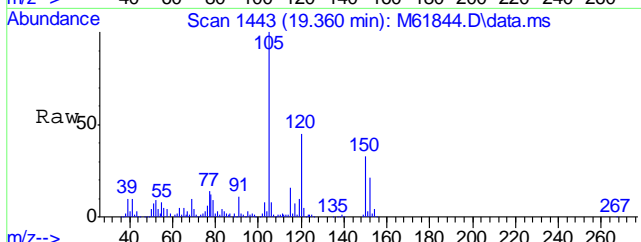
#74
4-Bromofluorobenzene
Concen: 22.91 ppb
RT: 17.861 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

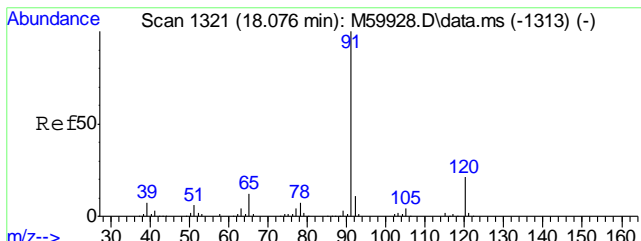
Tgt Ion	Resp	Lower	Upper
95	150494	100	
174	73.9	54.3	94.3
176	71.8	51.5	91.5



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

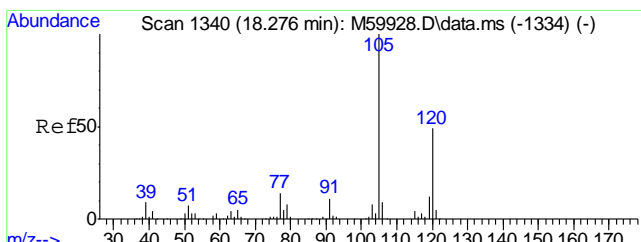
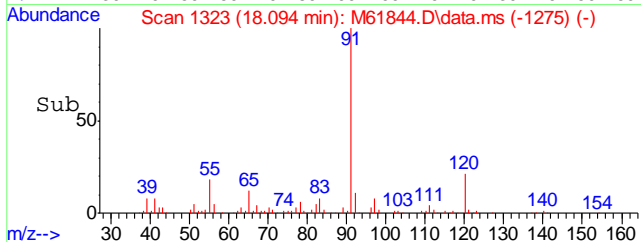
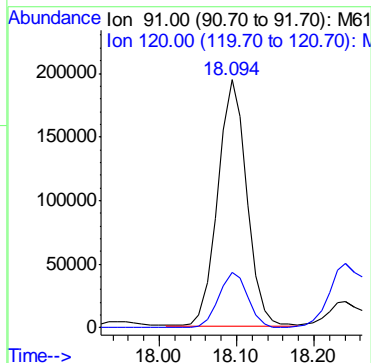
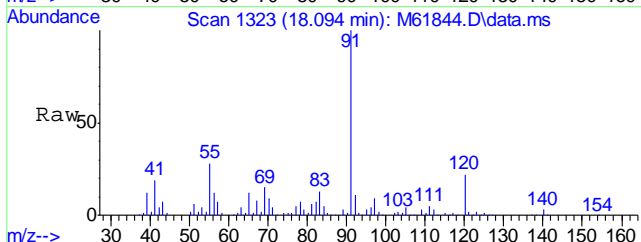
Tgt Ion	Resp	Lower	Upper
152	154344	100	
115	78.3	40.9	80.9
150	153.8	178.6	218.6#





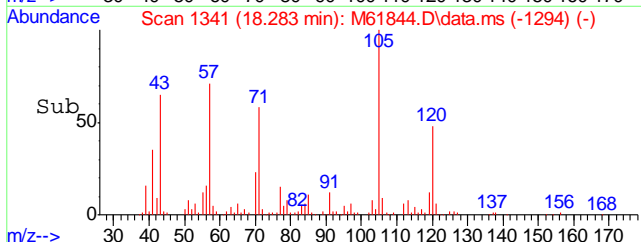
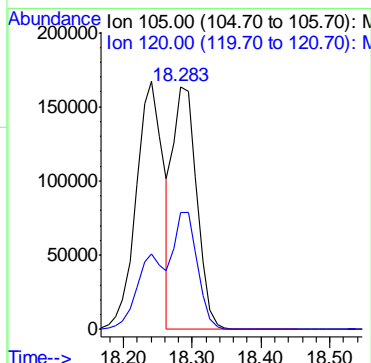
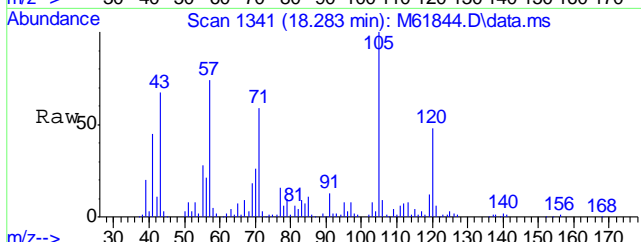
#79
 n-Propylbenzene
 Concen: 13.86 ppb
 RT: 18.094 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

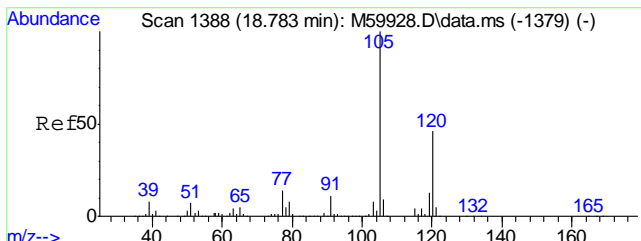
Tgt Ion	Resp	Lower	Upper
91	504969	100	
120	22.4	1.3	41.3



#81
 1,3,5-Trimethylbenzene
 Concen: 16.25 ppb
 RT: 18.283 min Scan# 1341
 Delta R.T. -0.004 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

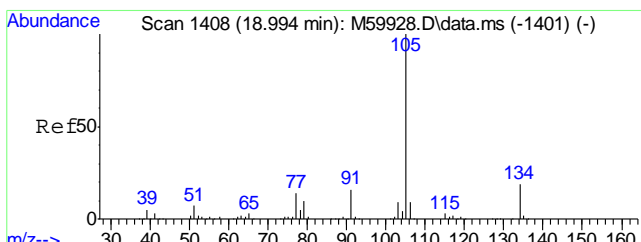
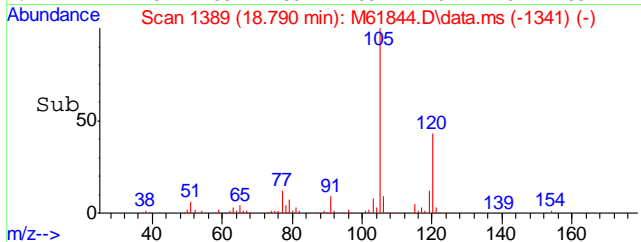
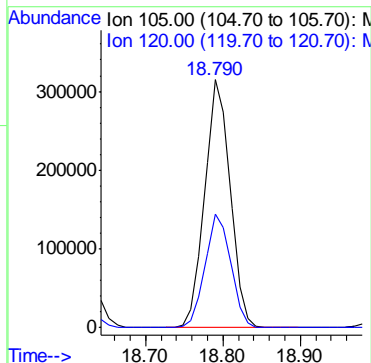
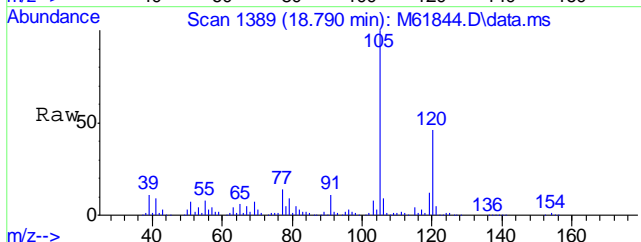
Tgt Ion	Resp	Lower	Upper
105	392213	100	
120	48.0	26.6	66.6





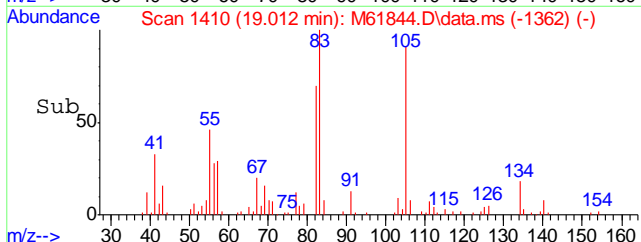
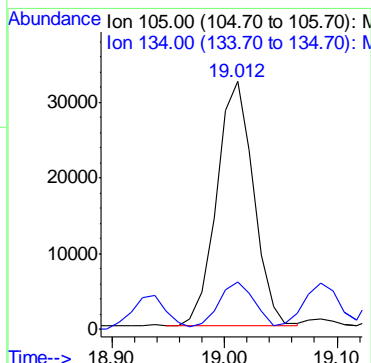
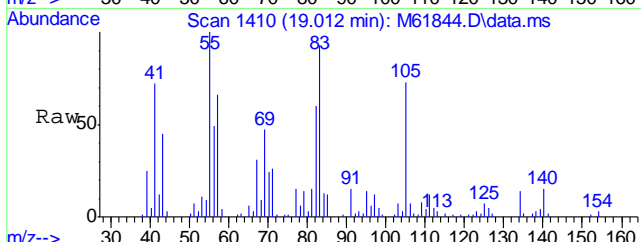
#86
1,2,4-Trimethylbenzene
Concen: 28.53 ppb
RT: 18.790 min Scan# 1389
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

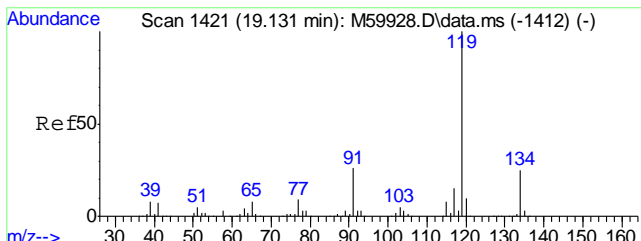
Tgt Ion	Resp	Lower	Upper
105	715137	100	
120	46.4	32.4	72.4



#87
sec-Butylbenzene
Concen: 2.33 ppb
RT: 19.012 min Scan# 1410
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

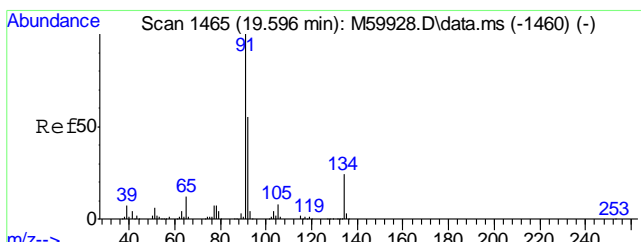
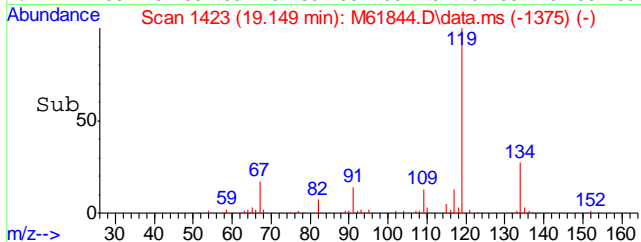
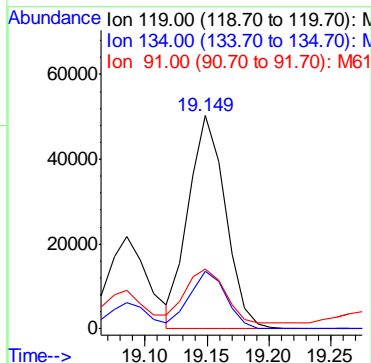
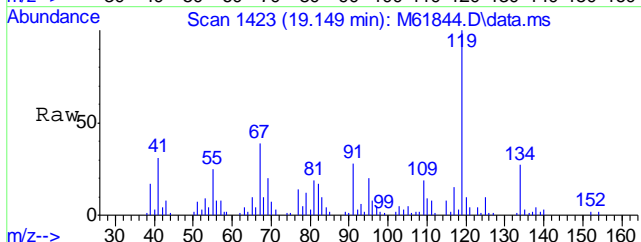
Tgt Ion	Resp	Lower	Upper
105	73443	100	
134	19.5	0.0	38.7





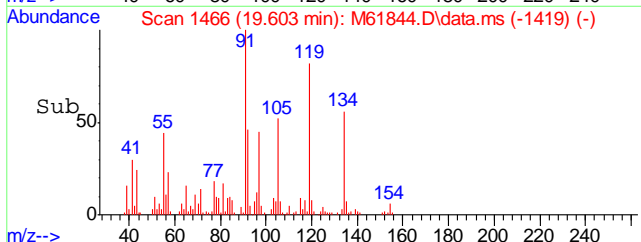
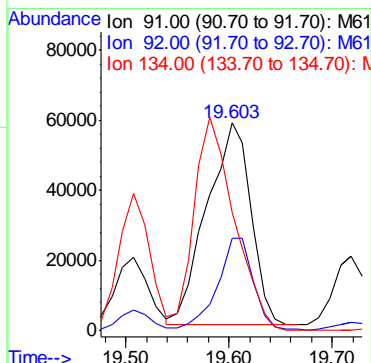
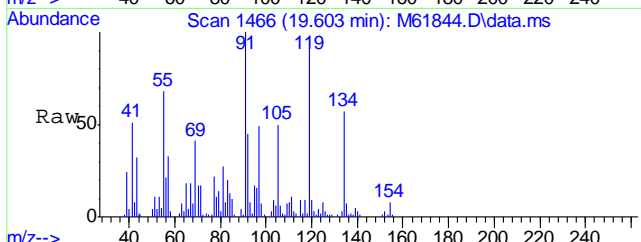
#88
 p-Isopropyltoluene
 Concen: 4.05 ppb
 RT: 19.149 min Scan# 1423
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

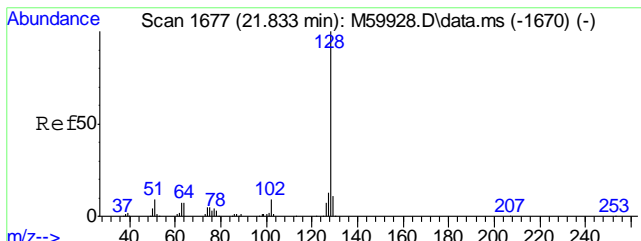
Tgt Ion	Resp	Lower	Upper
119	104571	100	
134	26.6	6.0	46.0
91	27.0	6.0	46.0



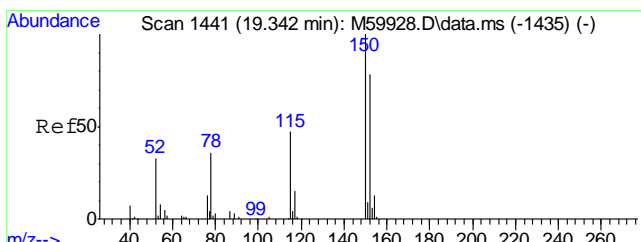
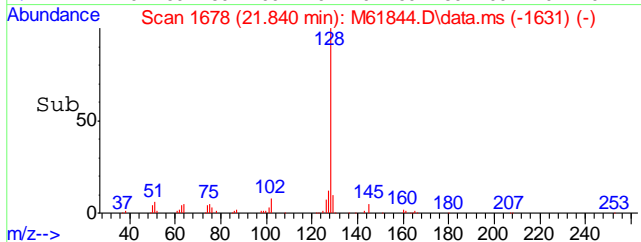
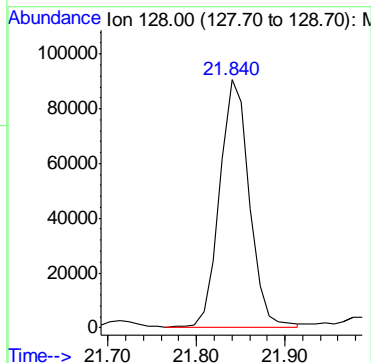
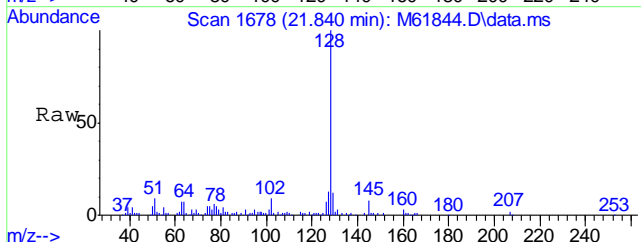
#92
 n-Butylbenzene
 Concen: 6.47 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.004 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

Tgt Ion	Resp	Lower	Upper
91	170021	100	
92	37.6	35.3	75.3
134	96.5	3.6	43.6#

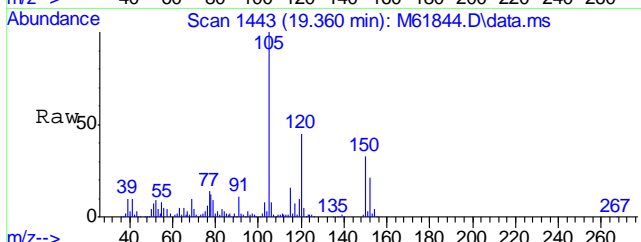




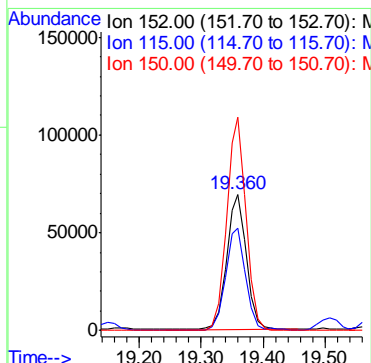
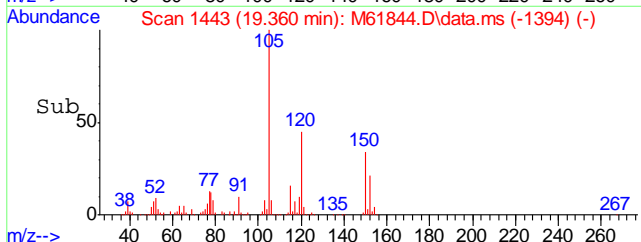
#97
Naphthalene
Concen: 10.32 ppb
RT: 21.840 min Scan# 1678
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm
Tgt Ion:128 Resp: 209254

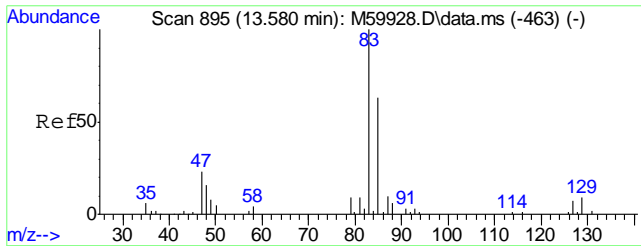


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.018 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm
Tgt Ion:152 Resp: 154344

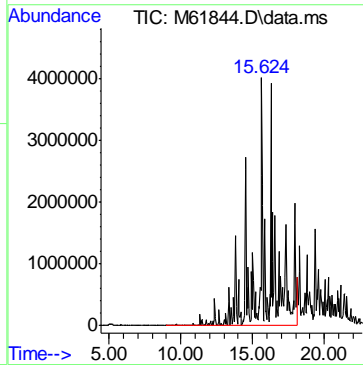
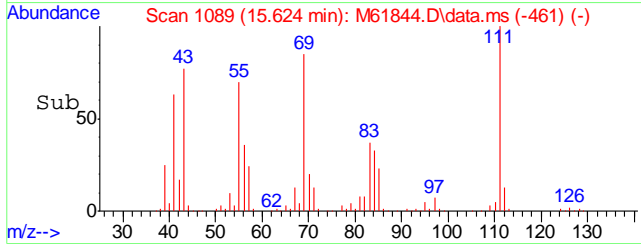
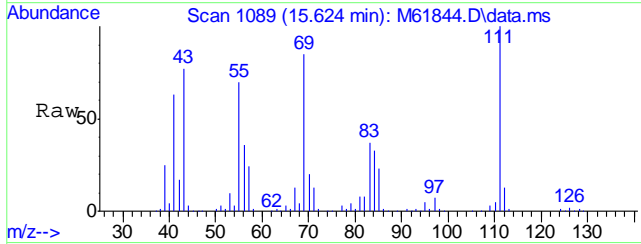


Ion	Ratio	Lower	Upper
152	100		
115	78.3	37.3	77.3#
150	153.8	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 3993.56 ppb m
RT: 15.624 min Scan# 1089
Delta R.T. 2.074 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm
Tgt Ion:TIC Resp:157024264



6.1.23
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61844.D
 Acq On : 13 Jul 2016 6:59 pm
 Operator : johannat
 Sample : C46435-14R
 Misc : MS1912,VM1859,5.31,,100,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 02 10:11:21 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.340	168	183542	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.669	114	272447	20.00	ppb	0.00
55) Chlorobenzene-d5	16.373	117	255969	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	154344	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	154344	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.466	111	83350	17.91	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	89.55%		
56) Toluene-d8	14.601	98	316151	18.92	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.60%		
74) 4-Bromofluorobenzene	17.861	95	150494	22.91	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	114.55%		

Target Compounds

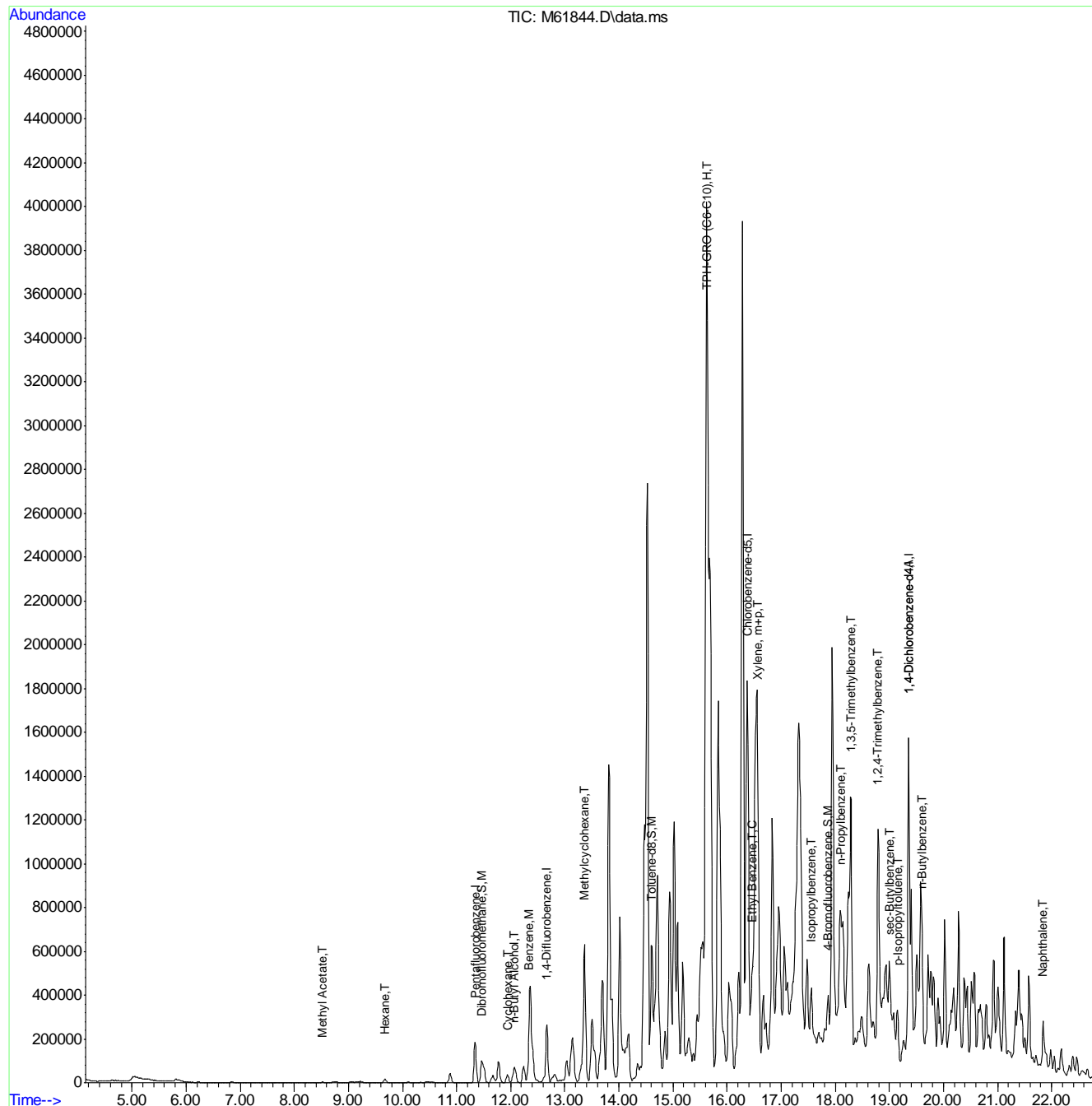
						Qvalue
15) Methyl Acetate	8.522	43	5068	0.90	ppb	# 66
24) Hexane	9.683	57	12889	1.34	ppb	99
38) Cyclohexane	11.941	56	26725	2.23	ppb	97
42) n-Butyl Alcohol	12.068	56	41068	311.24	ppb	91
45) Benzene	12.342	78	19369	0.81	ppb	100
48) Methylcyclohexane	13.366	55	334561	33.41	ppb	97
67) Ethyl Benzene	16.468	91	245675	9.25	ppb	98
68) Xylene, m+p	16.563	106	140390	14.48	ppb	97
73) Isopropylbenzene	17.555	105	256295	10.35	ppb	98
79) n-Propylbenzene	18.094	91	504969	13.86	ppb	98
81) 1,3,5-Trimethylbenzene	18.283	105	392213	16.25	ppb	98
86) 1,2,4-Trimethylbenzene	18.790	105	715137	28.53	ppb	91
87) sec-Butylbenzene	19.012	105	73443	2.33	ppb	98
88) p-Isopropyltoluene	19.149	119	104571	4.05	ppb	98
92) n-Butylbenzene	19.603	91	170021	6.47	ppb	# 38
97) Naphthalene	21.840	128	209254	10.32	ppb	100
100) TPH-GRO (C6-C10)	15.624	TIC	157024264m	3993.56	ppb	

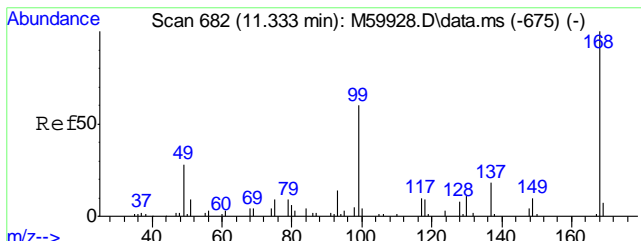
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

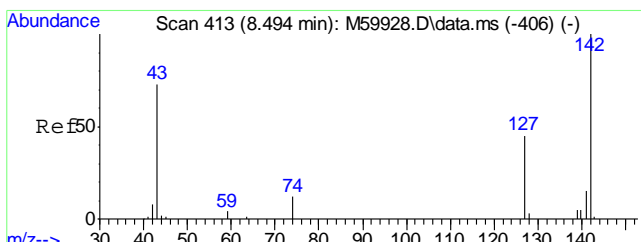
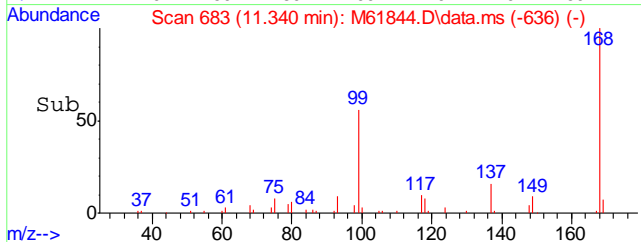
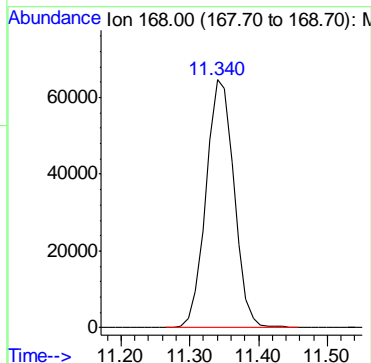
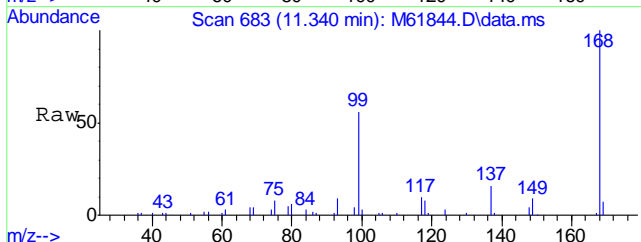
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61844.D
 Acq On : 13 Jul 2016 6:59 pm
 Operator : johannat
 Sample : C46435-14R
 Misc : MS1912,VM1859,5.31,,100,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 02 10:11:21 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration



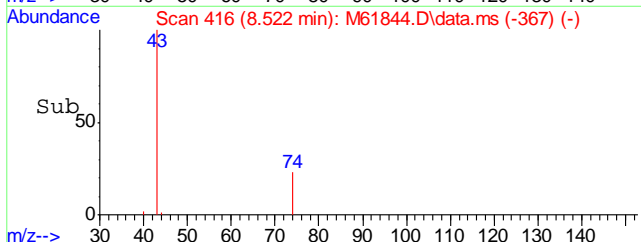
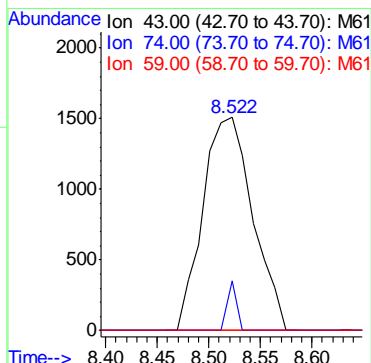
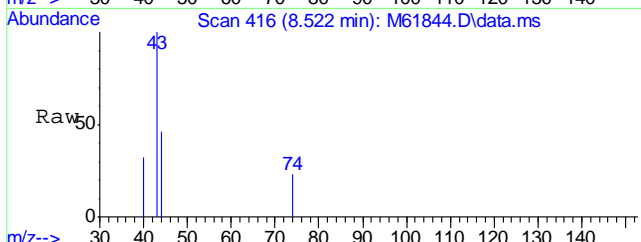


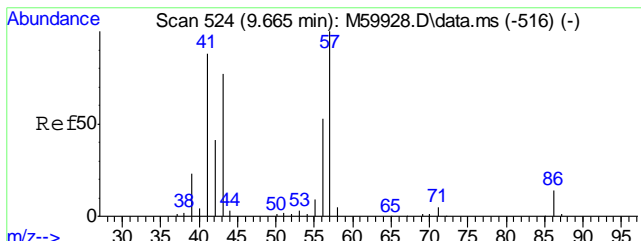
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.004 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm
 Tgt Ion:168 Resp: 183542



#15
 Methyl Acetate
 Concen: 0.90 ppb
 RT: 8.522 min Scan# 416
 Delta R.T. 0.018 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm
 Tgt Ion: 43 Resp: 5068

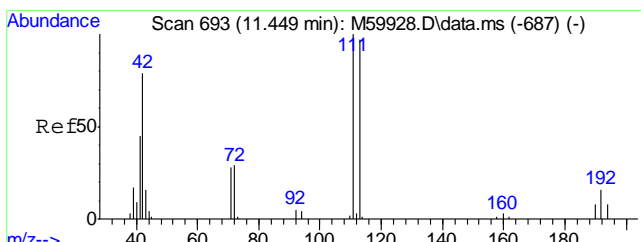
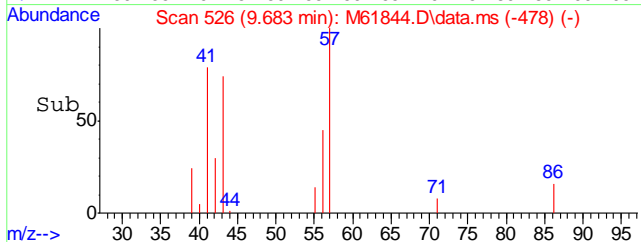
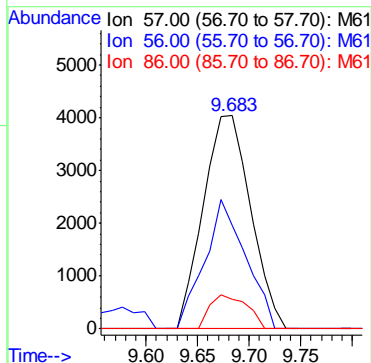
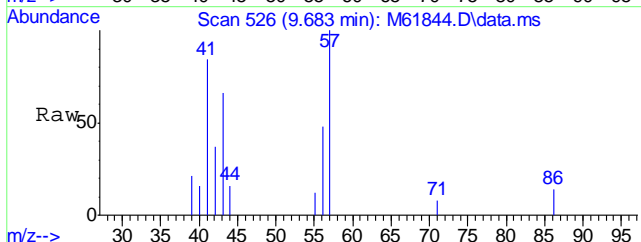
Ion	Ratio	Lower	Upper
43	100		
74	0.0	0.0	37.1
59	0.0	0.0	27.1





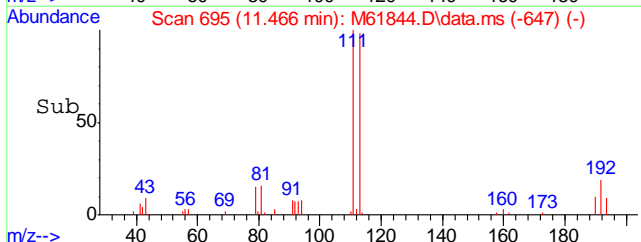
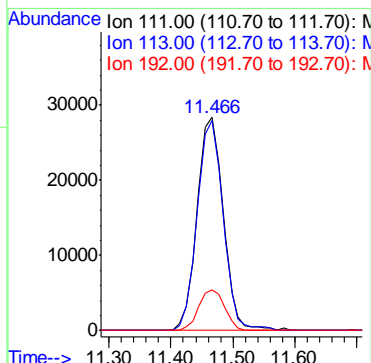
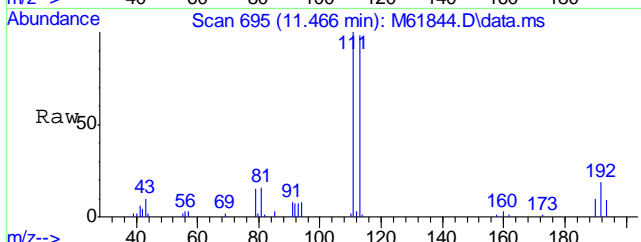
#24
Hexane
Concen: 1.34 ppb
RT: 9.683 min Scan# 526
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

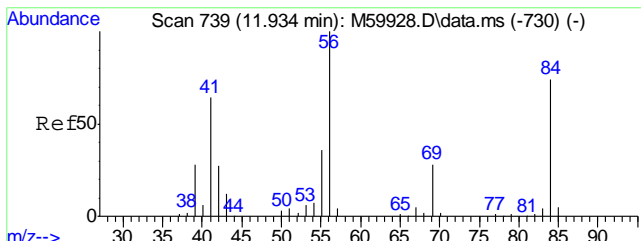
Tgt Ion	Resp	Lower	Upper
57	12889		
56	52.6	32.9	72.9
86	12.4	0.0	34.1



#36
Dibromofluoromethane
Concen: 17.91 ppb
RT: 11.466 min Scan# 695
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

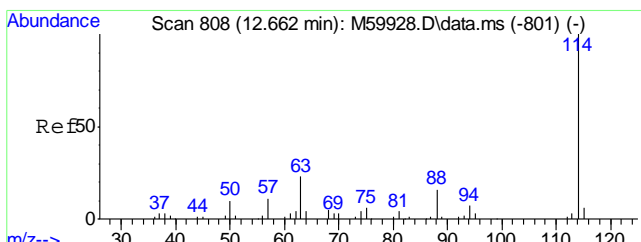
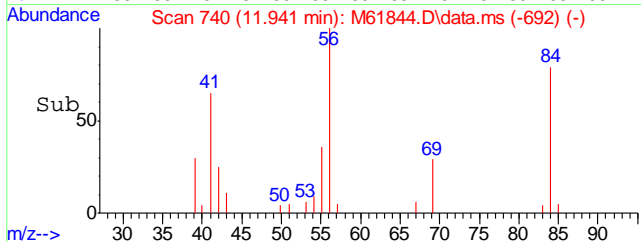
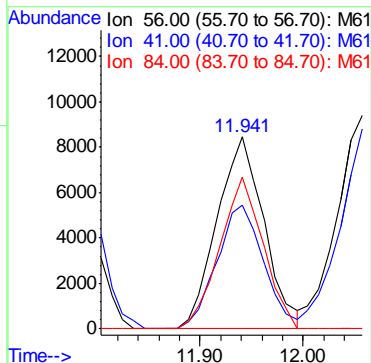
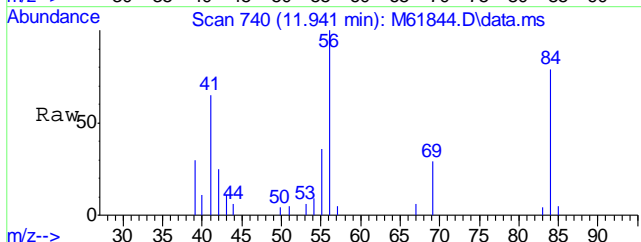
Tgt Ion	Resp	Lower	Upper
111	83350		
113	97.4	77.7	117.7
192	18.8	0.0	36.3





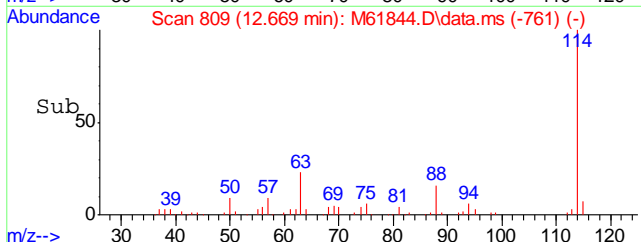
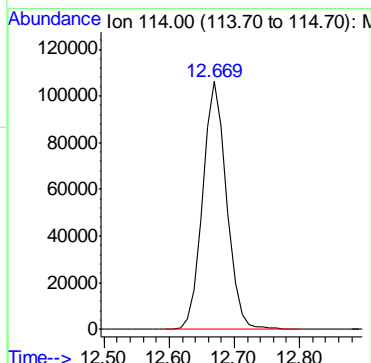
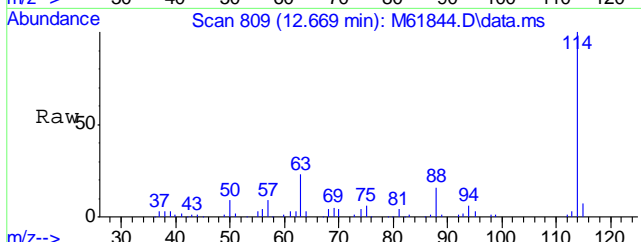
#38
Cyclohexane
Concen: 2.23 ppb
RT: 11.941 min Scan# 740
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

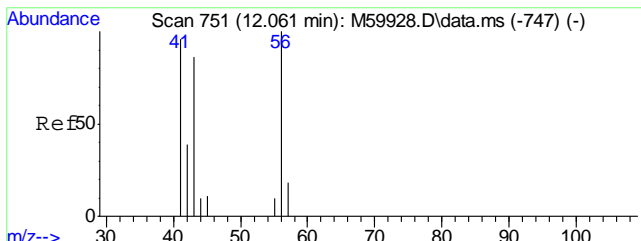
Tgt Ion	Resp	Lower	Upper
56	26725		
56	100		
41	64.4	46.3	86.3
84	73.2	56.0	96.0



#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.669 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

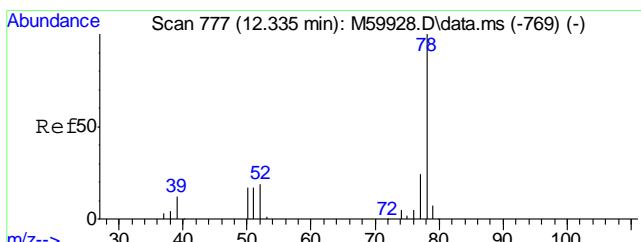
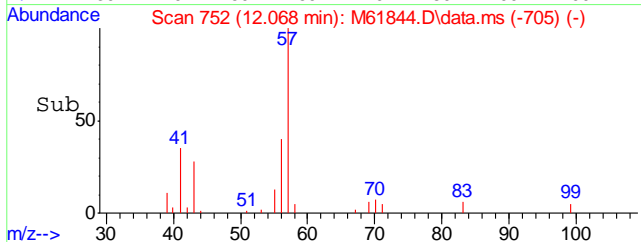
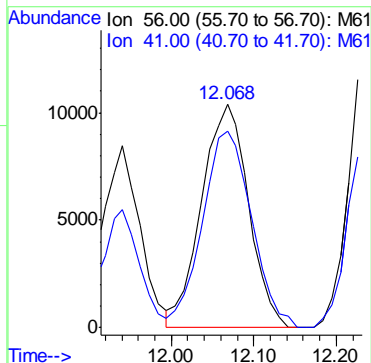
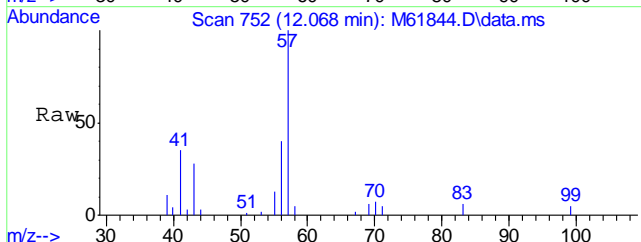
Tgt Ion	Resp
114	272447





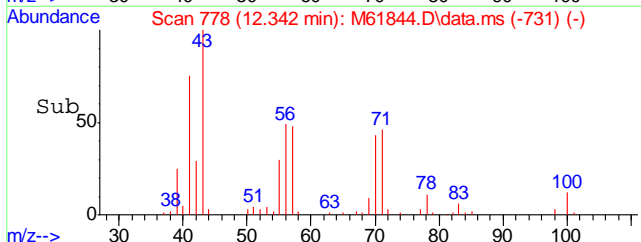
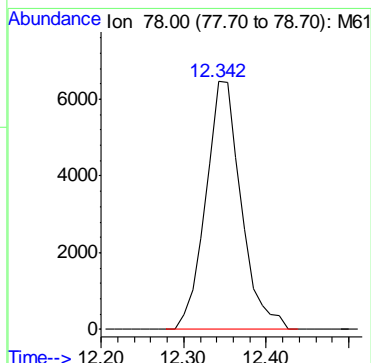
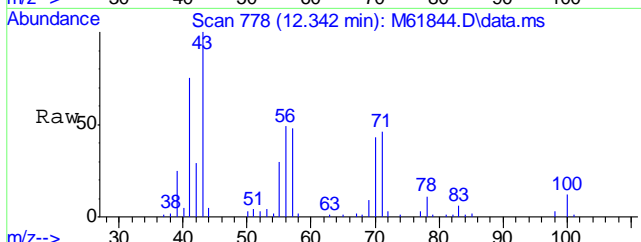
#42
n-Butyl Alcohol
Concen: 311.24 ppb
RT: 12.068 min Scan# 752
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

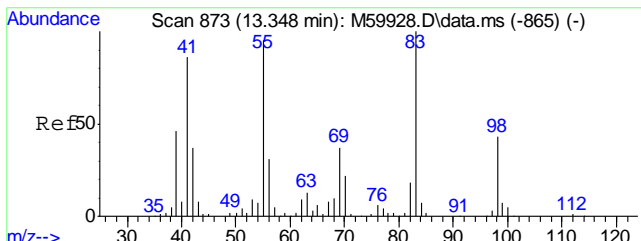
Tgt Ion: 56 Resp: 41068
Ion Ratio Lower Upper
56 100
41 91.9 63.5 103.5



#45
Benzene
Concen: 0.81 ppb
RT: 12.342 min Scan# 778
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

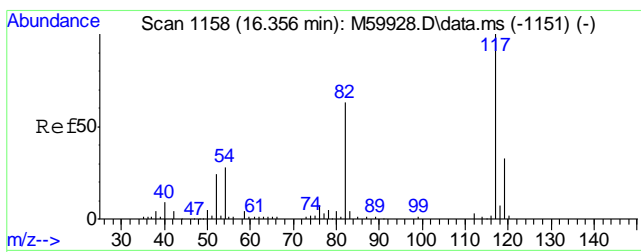
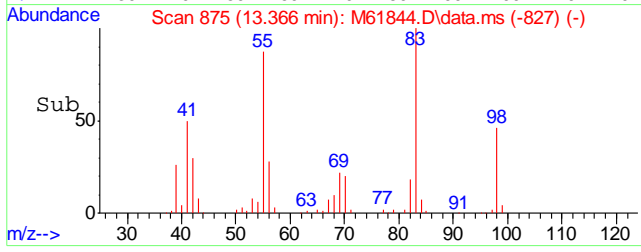
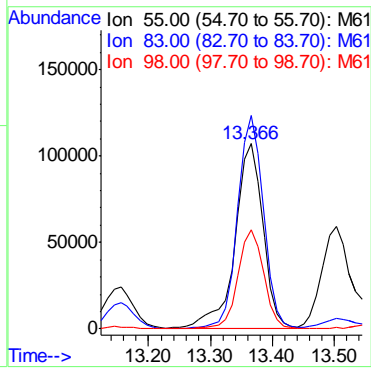
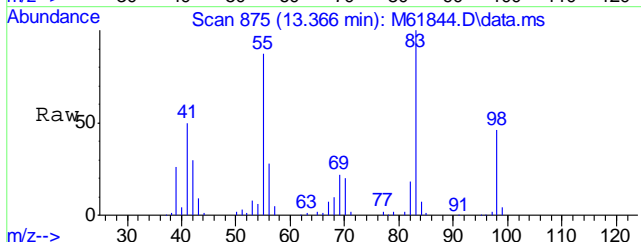
Tgt Ion: 78 Resp: 19369





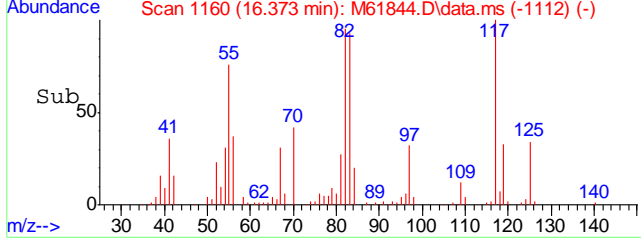
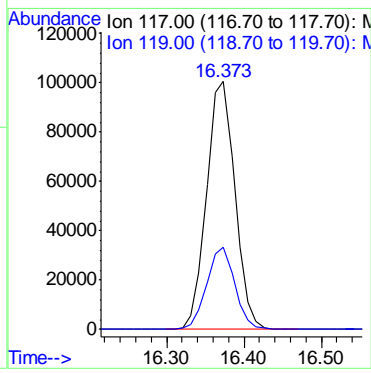
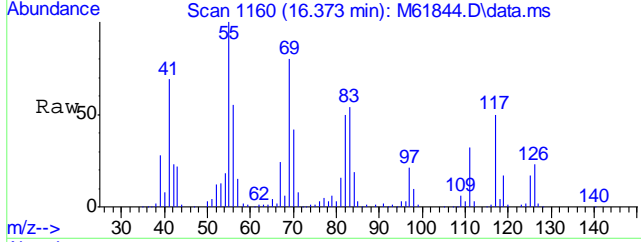
#48
 Methylcyclohexane
 Concen: 33.41 ppb
 RT: 13.366 min Scan# 875
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

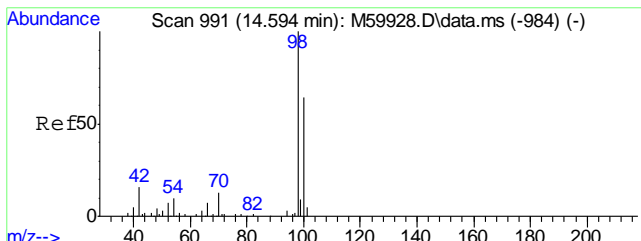
Tgt Ion	Resp	Lower	Upper
55	334561		
55	100		
83	107.6	84.5	124.5
98	49.6	27.0	67.0



#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.373 min Scan# 1160
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

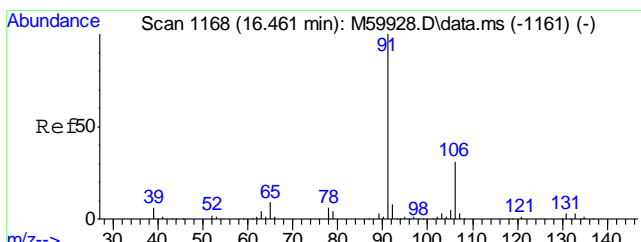
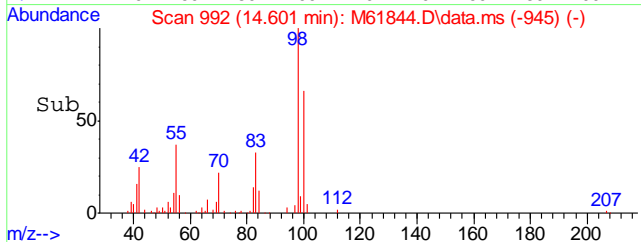
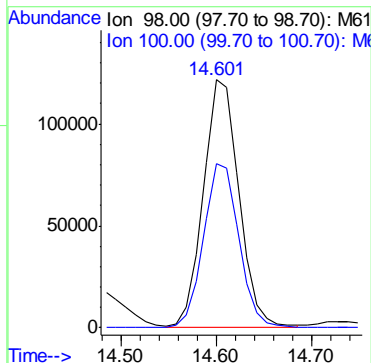
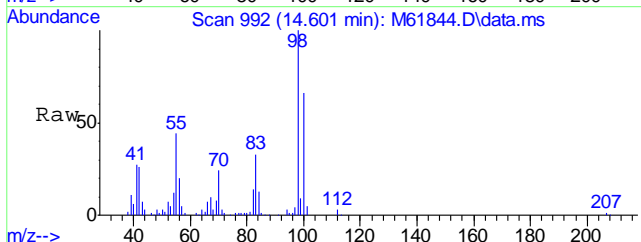
Tgt Ion	Resp	Lower	Upper
117	255969		
117	100		
119	32.5	11.2	51.2





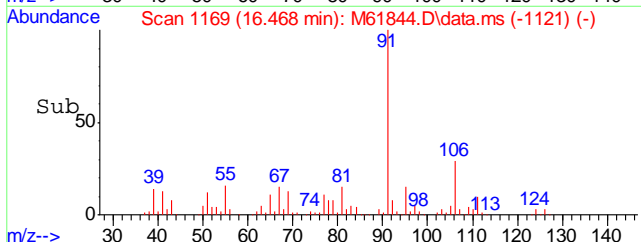
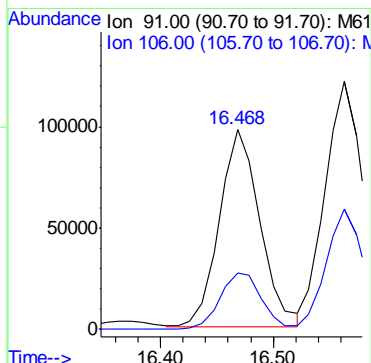
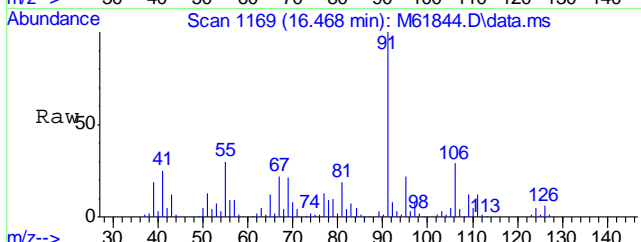
#56
Toluene-d8
Concen: 18.92 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

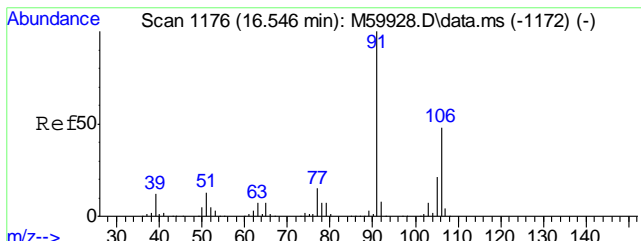
Tgt Ion	Resp	Lower	Upper
98	316151	100	
100	65.7	44.3	84.3



#67
Ethyl Benzene
Concen: 9.25 ppb
RT: 16.468 min Scan# 1169
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

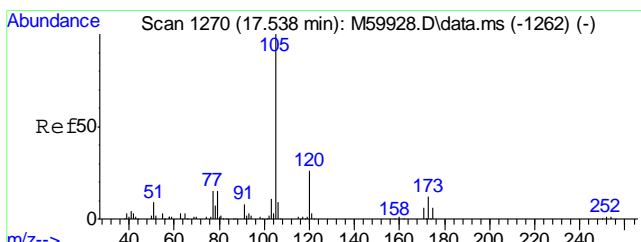
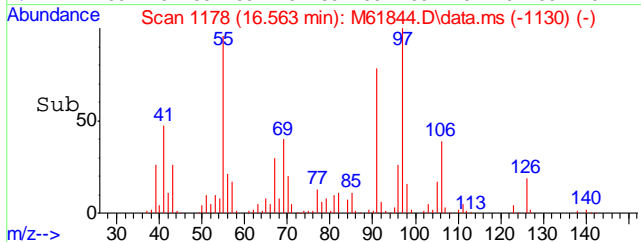
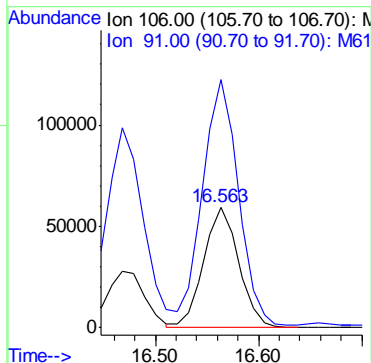
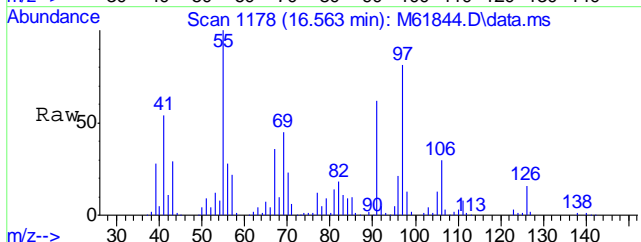
Tgt Ion	Resp	Lower	Upper
91	245675	100	
106	29.1	10.2	50.2





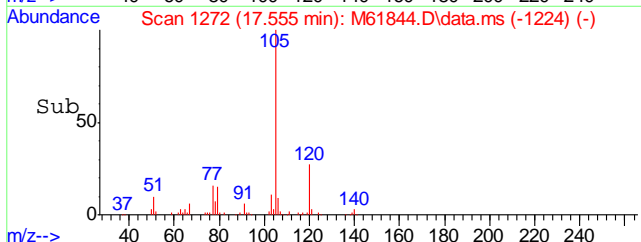
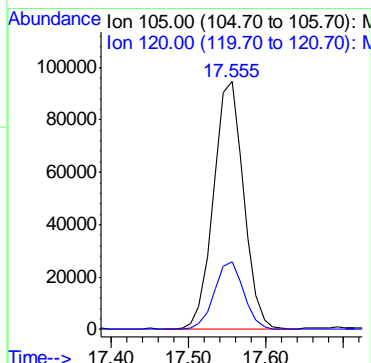
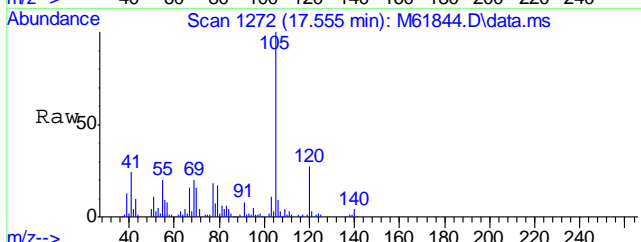
#68
Xylene, m+p
Concen: 14.48 ppb
RT: 16.563 min Scan# 1178
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

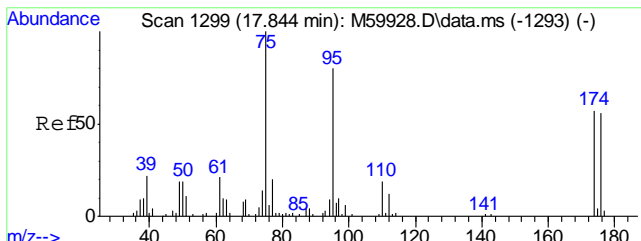
Tgt Ion:	106	Resp:	140390
Ion Ratio	Lower	Upper	
106	100		
91	206.2	191.5	231.5



#73
Isopropylbenzene
Concen: 10.35 ppb
RT: 17.555 min Scan# 1272
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

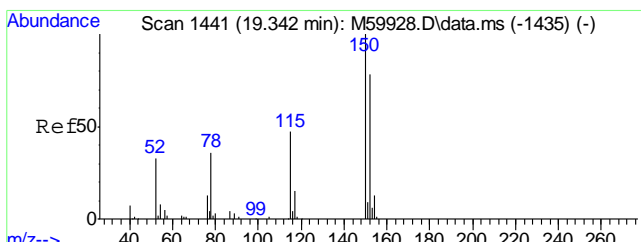
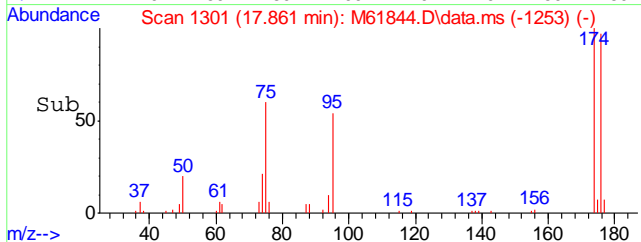
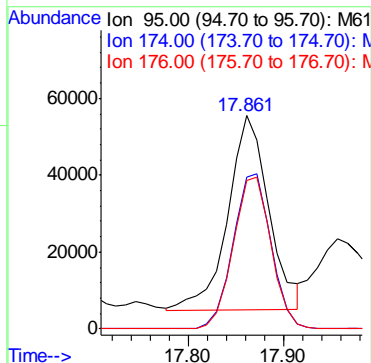
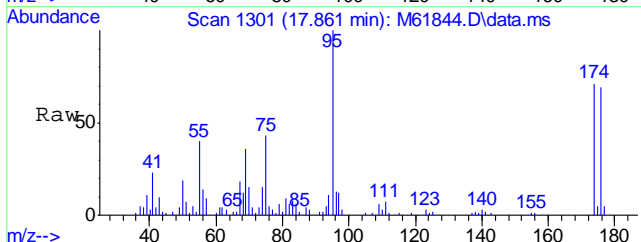
Tgt Ion:	105	Resp:	256295
Ion Ratio	Lower	Upper	
105	100		
120	26.7	5.7	45.7





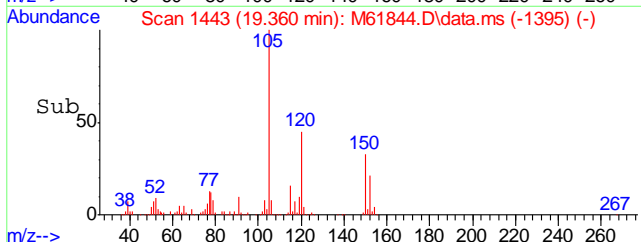
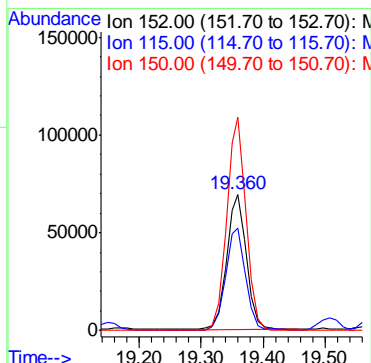
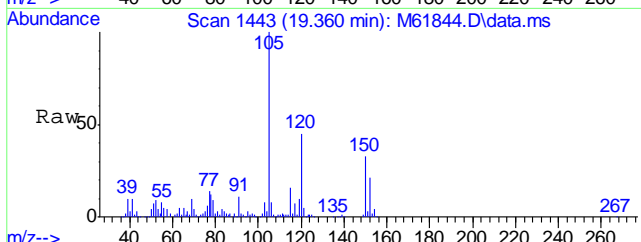
#74
4-Bromofluorobenzene
Concen: 22.91 ppb
RT: 17.861 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

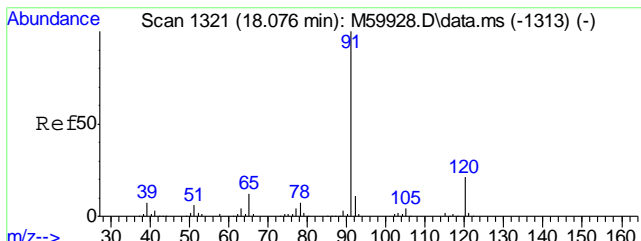
Tgt Ion	Resp	Lower	Upper
95	150494		
174	73.9	54.3	94.3
176	71.8	51.5	91.5



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

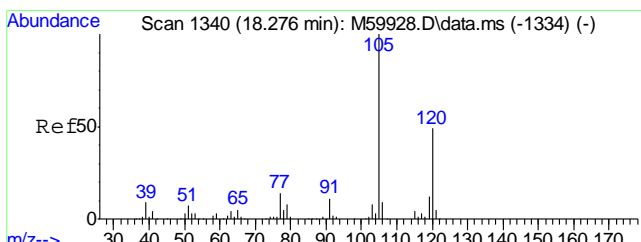
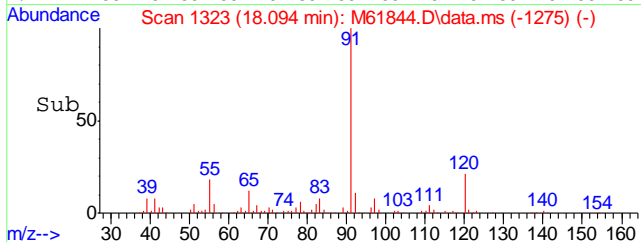
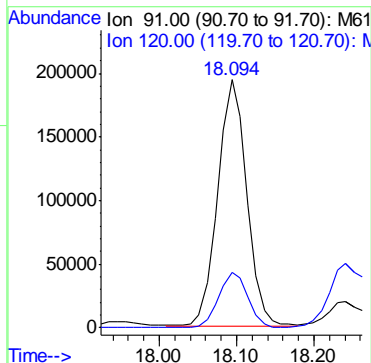
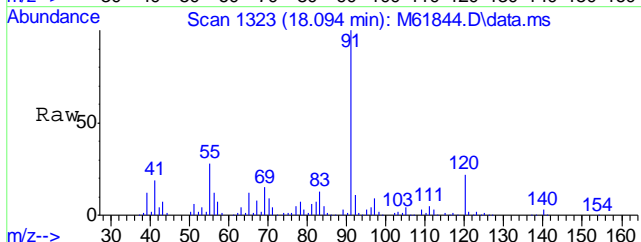
Tgt Ion	Resp	Lower	Upper
152	154344		
115	78.3	40.9	80.9
150	153.8	178.6	218.6#





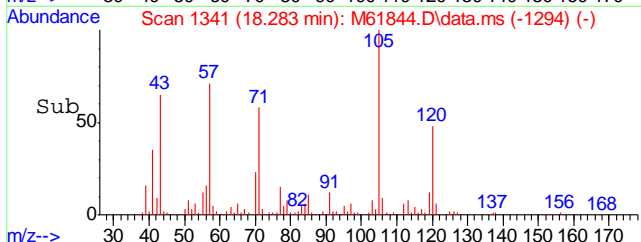
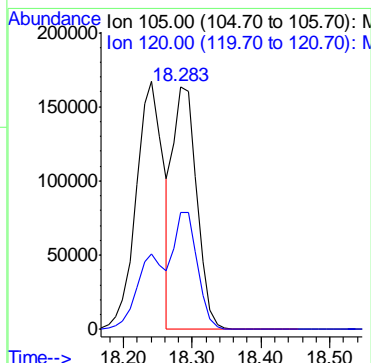
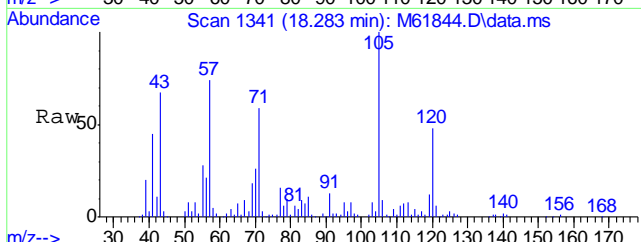
#79
 n-Propylbenzene
 Concen: 13.86 ppb
 RT: 18.094 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

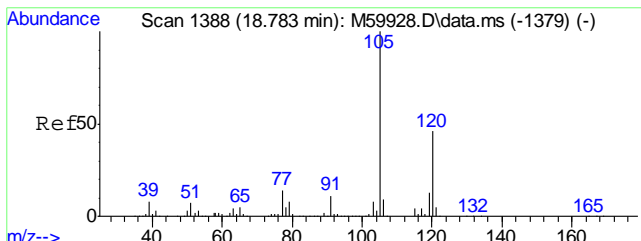
Tgt Ion	Resp	Lower	Upper
91	504969	100	
120	22.4	1.3	41.3



#81
 1,3,5-Trimethylbenzene
 Concen: 16.25 ppb
 RT: 18.283 min Scan# 1341
 Delta R.T. -0.004 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

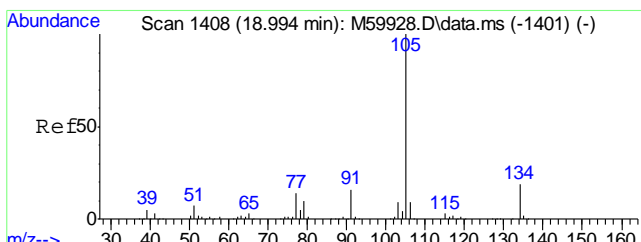
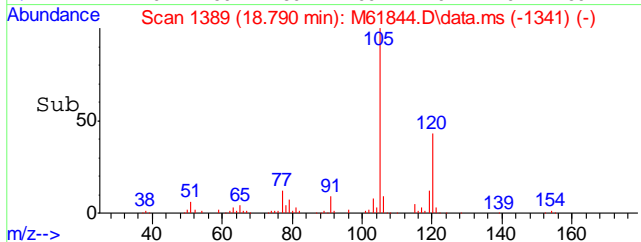
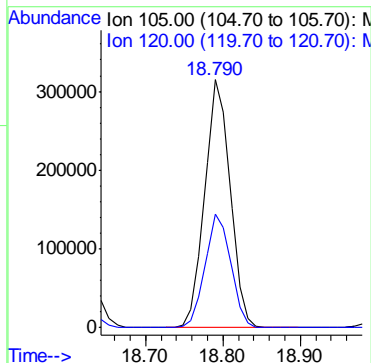
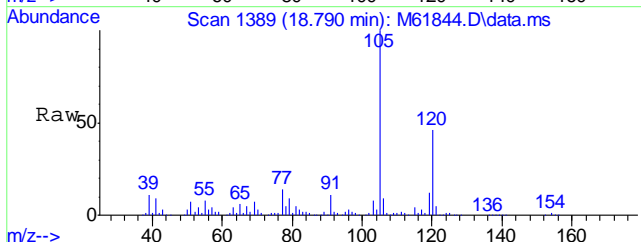
Tgt Ion	Resp	Lower	Upper
105	392213	100	
120	48.0	26.6	66.6





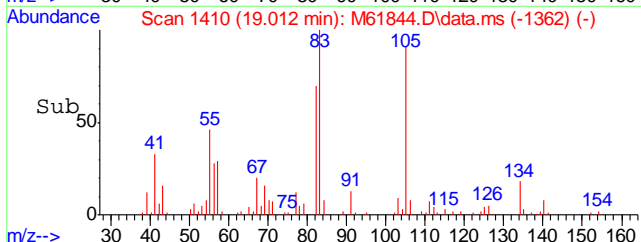
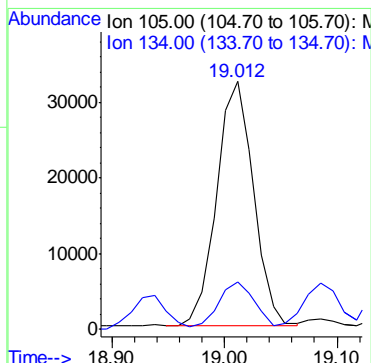
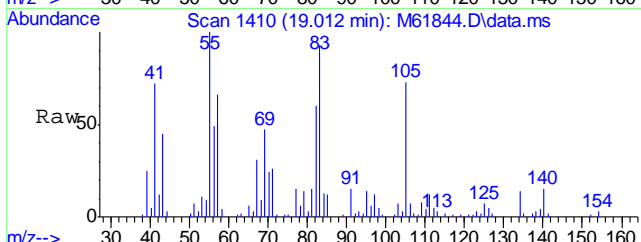
#86
1,2,4-Trimethylbenzene
Concen: 28.53 ppb
RT: 18.790 min Scan# 1389
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

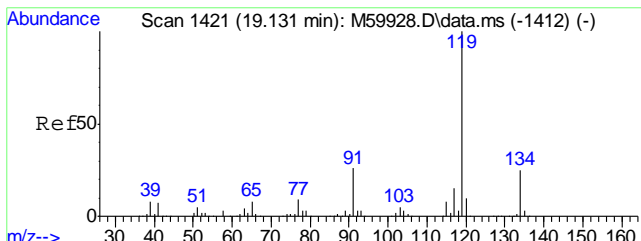
Tgt Ion	Resp	Lower	Upper
105	715137	100	
120	46.4	32.4	72.4



#87
sec-Butylbenzene
Concen: 2.33 ppb
RT: 19.012 min Scan# 1410
Delta R.T. 0.007 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm

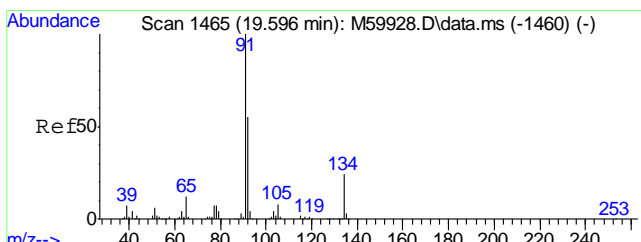
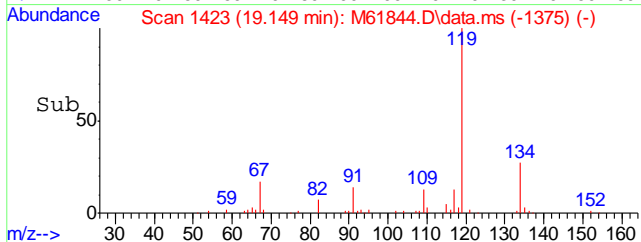
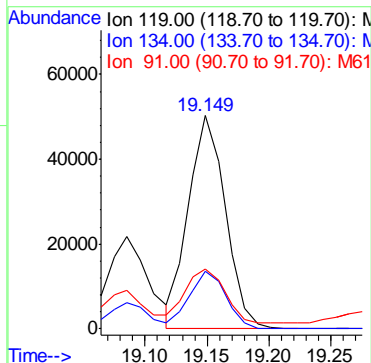
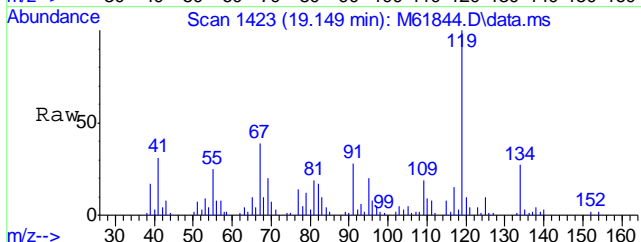
Tgt Ion	Resp	Lower	Upper
105	73443	100	
134	19.5	0.0	38.7





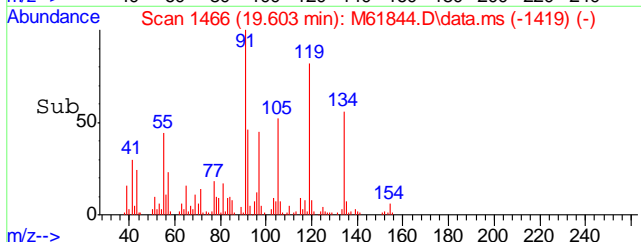
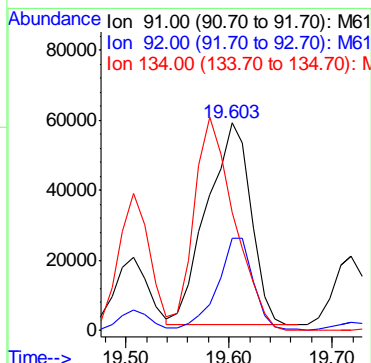
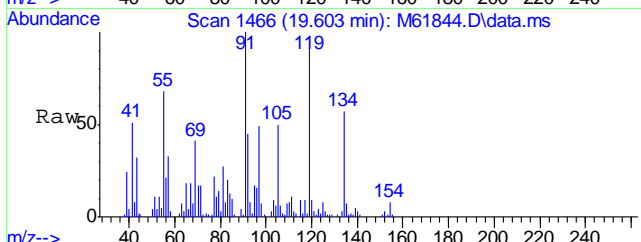
#88
 p-Isopropyltoluene
 Concen: 4.05 ppb
 RT: 19.149 min Scan# 1423
 Delta R.T. 0.007 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

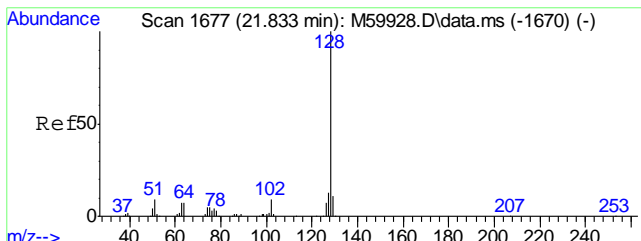
Tgt Ion	Resp	Lower	Upper
119	104571	100	
134	26.6	6.0	46.0
91	27.0	6.0	46.0



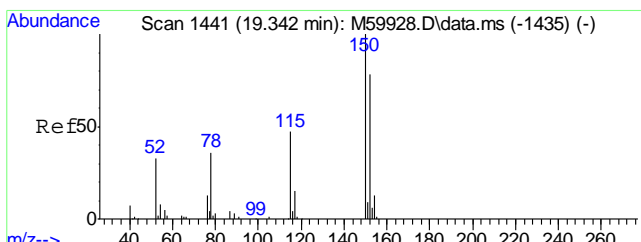
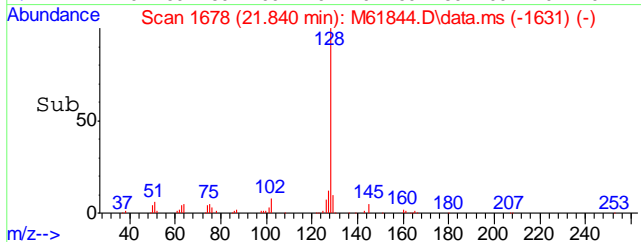
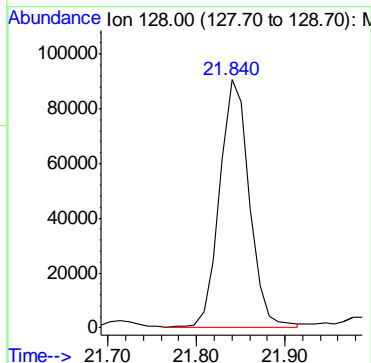
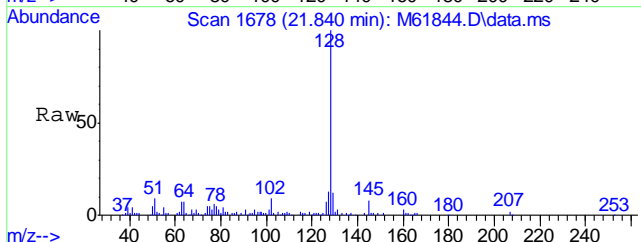
#92
 n-Butylbenzene
 Concen: 6.47 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.004 min
 Lab File: M61844.D
 Acq: 13 Jul 2016 6:59 pm

Tgt Ion	Resp	Lower	Upper
91	170021	100	
92	37.6	35.3	75.3
134	96.5	3.6	43.6#

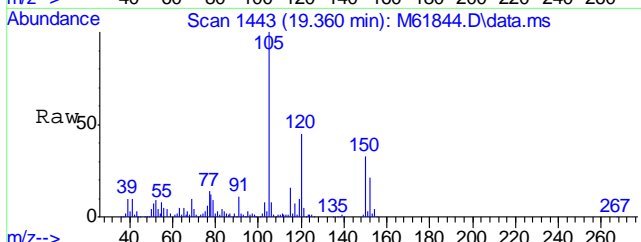




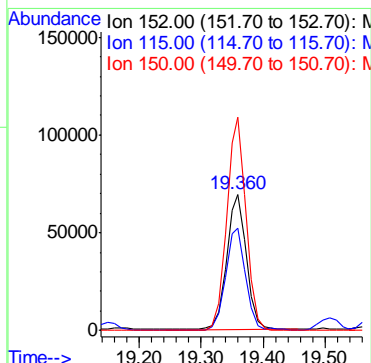
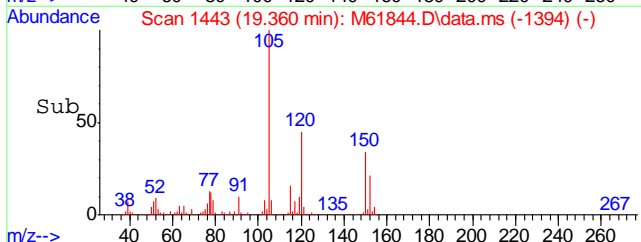
#97
Naphthalene
Concen: 10.32 ppb
RT: 21.840 min Scan# 1678
Delta R.T. -0.004 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm
Tgt Ion:128 Resp: 209254

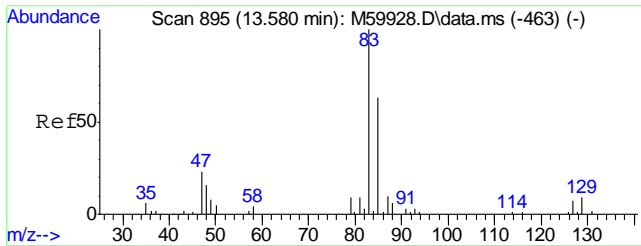


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.018 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm
Tgt Ion:152 Resp: 154344

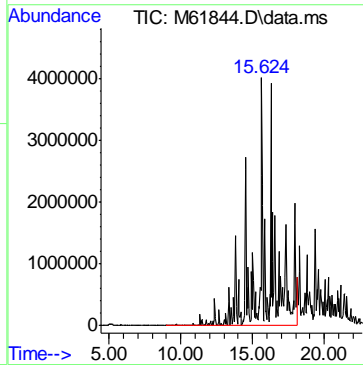
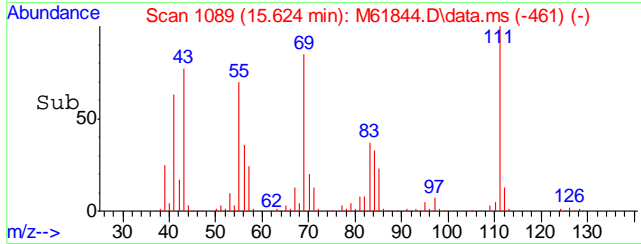
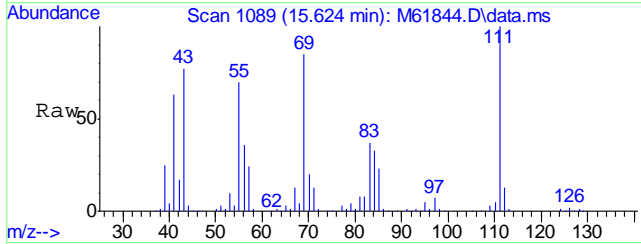


Ion	Ratio	Lower	Upper
152	100		
115	78.3	37.3	77.3#
150	153.8	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 3993.56 ppb m
RT: 15.624 min Scan# 1089
Delta R.T. 2.074 min
Lab File: M61844.D
Acq: 13 Jul 2016 6:59 pm
Tgt Ion:TIC Resp:157024264



6.1.24
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
Data File : M61919.D
Acq On : 18 Jul 2016 7:47 pm
Operator : johannat
Sample : C46435-15R
Misc : MS1912,VM1861,5.63,,40,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 02 10:12:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
Quant Title : EPA 8260B
QLast Update : Mon Jul 18 09:14:24 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, and 1,4-Dichlorobenzene-d4A.

Table with 7 columns: System Monitoring Compounds, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Dibromofluoromethane, Toluene-d8, and 4-Bromofluorobenzene with spiked amounts and recovery percentages.

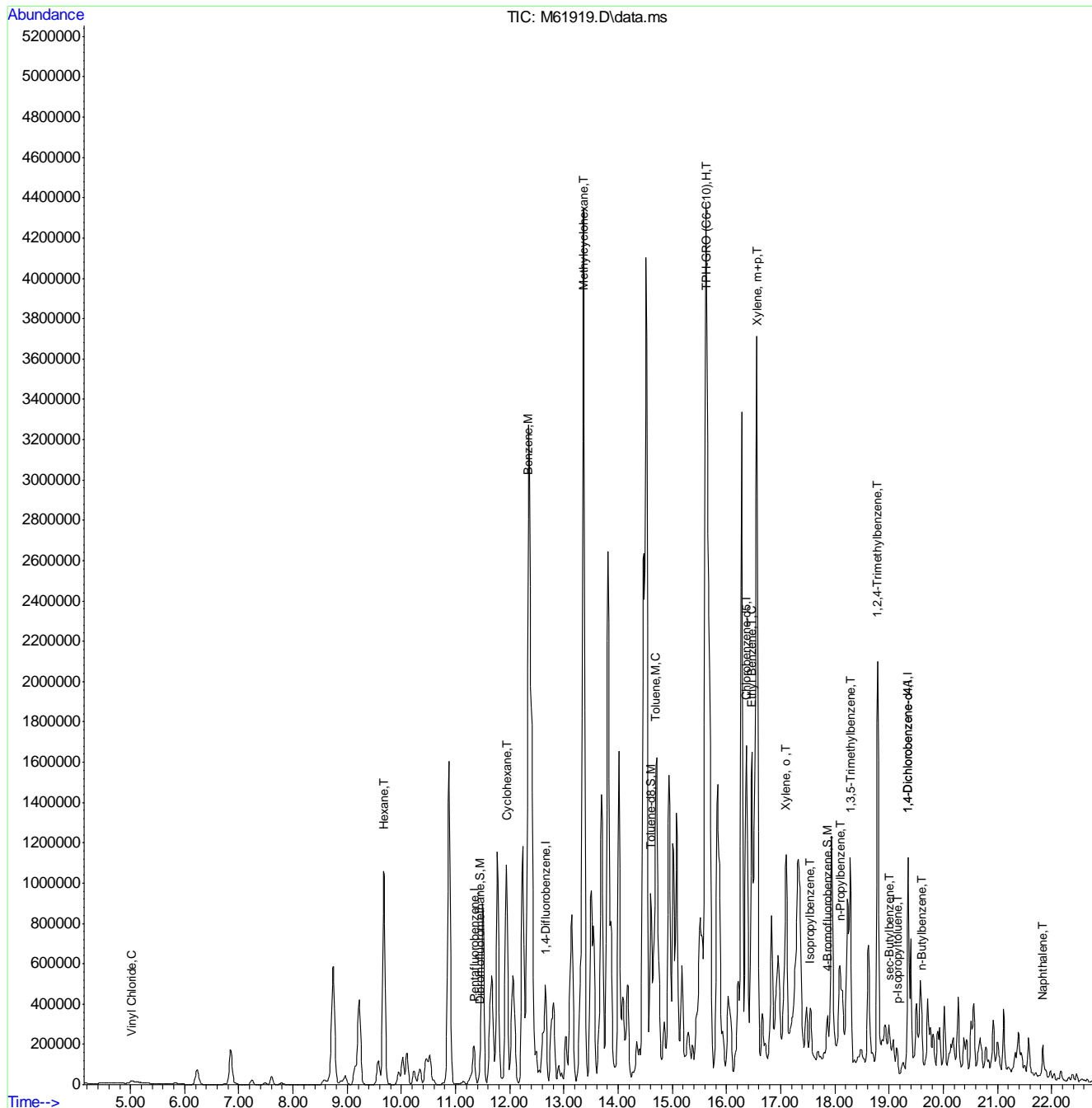
Table with 7 columns: Target Compounds, R.T., QIon, Response, Conc, Units, Qvalue. Lists various compounds like Vinyl Chloride, Hexane, Cyclohexane, Benzene, Methylcyclohexane, Toluene, Ethyl Benzene, Xylene, Isopropylbenzene, n-Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Naphthalene, and TPH-GRO (C6-C10).

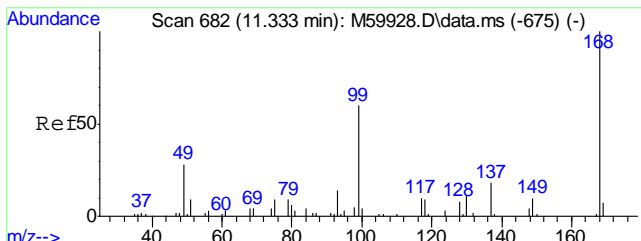
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

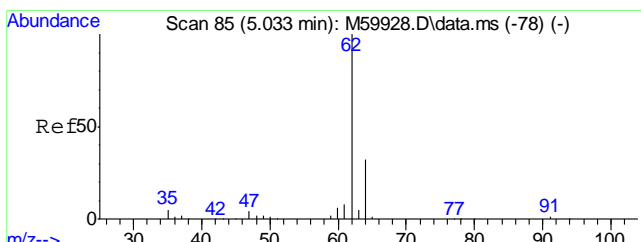
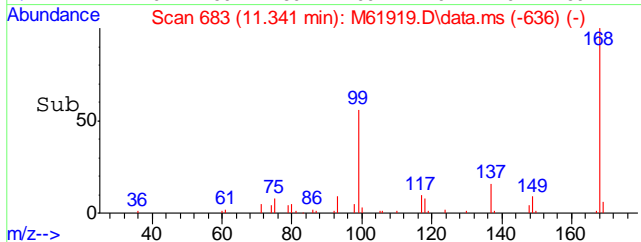
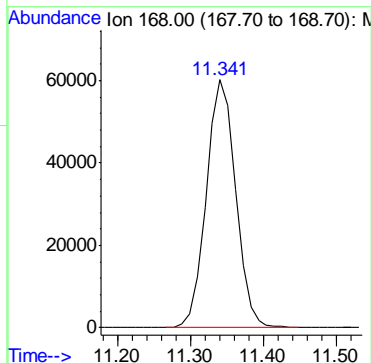
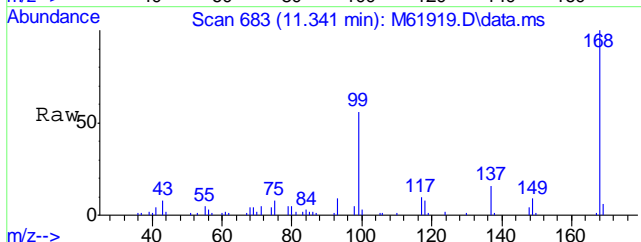
Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61919.D
 Acq On : 18 Jul 2016 7:47 pm
 Operator : johannat
 Sample : C46435-15R
 Misc : MS1912,VM1861,5.63,,40,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 02 10:12:40 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

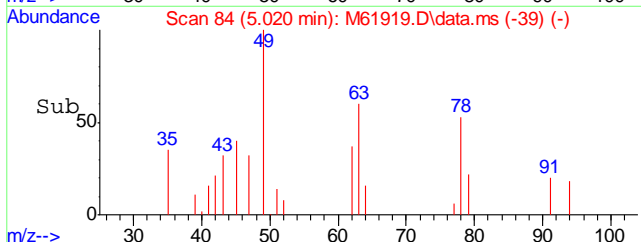
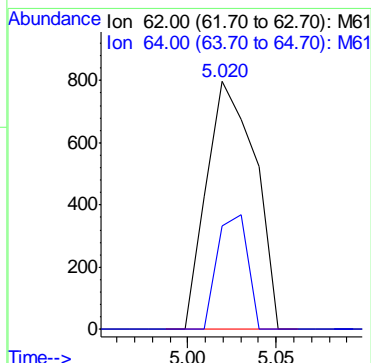
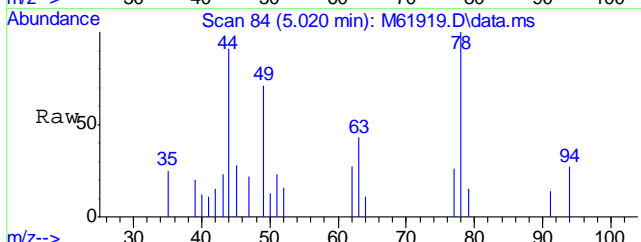


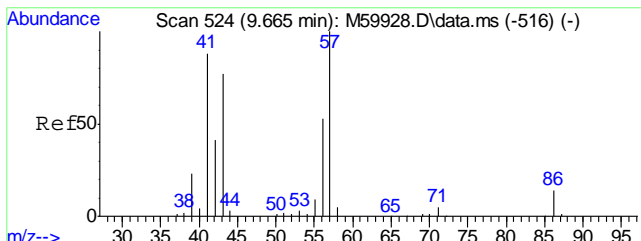


#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.341 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm
 Tgt Ion:168 Resp: 168733



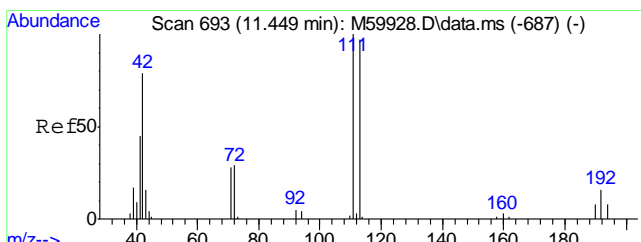
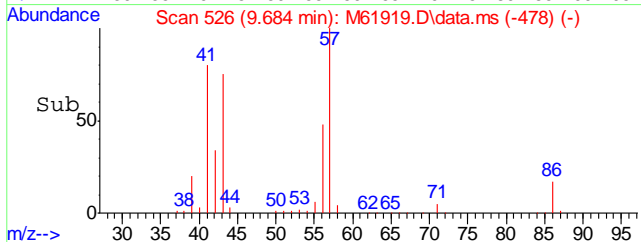
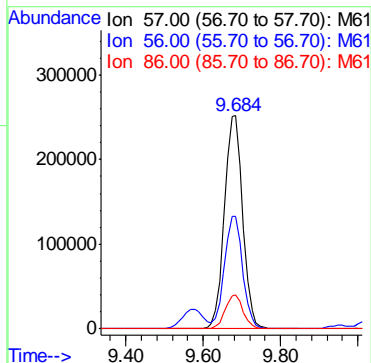
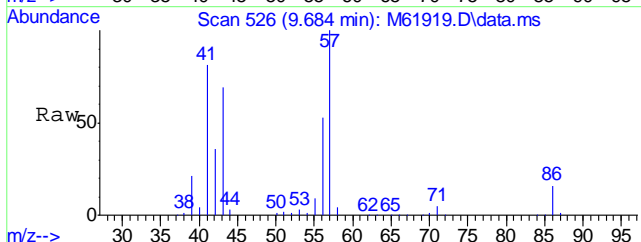
#4
 Vinyl Chloride
 Concen: 0.32 ppb
 RT: 5.020 min Scan# 84
 Delta R.T. -0.024 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm
 Tgt Ion: 62 Resp: 1534
 Ion Ratio Lower Upper
 62 100
 64 0.0 11.8 51.8#





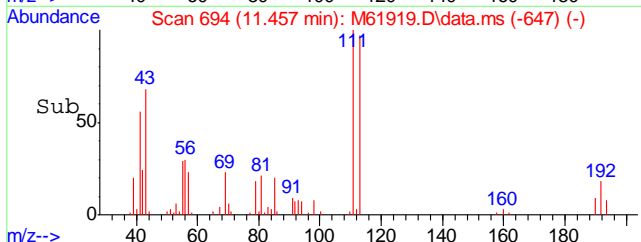
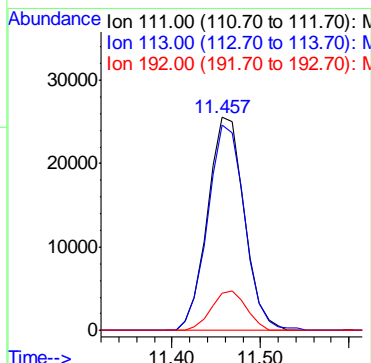
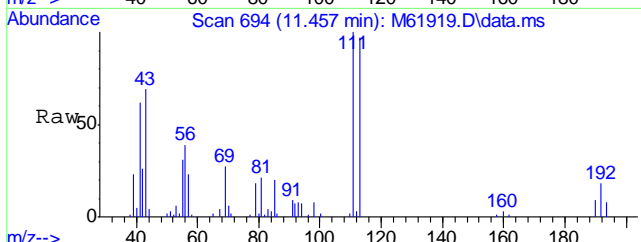
#24
Hexane
Concen: 111.49 ppb
RT: 9.684 min Scan# 526
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

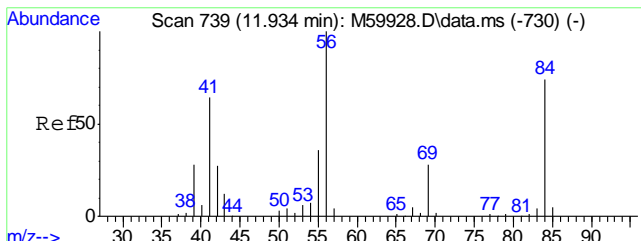
Tgt Ion	Resp	Lower	Upper
57	836678		
56	52.4	32.9	72.9
86	15.3	0.0	34.1



#36
Dibromofluoromethane
Concen: 18.47 ppb
RT: 11.457 min Scan# 694
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

Tgt Ion	Resp	Lower	Upper
111	73968		
113	96.9	77.7	117.7
192	17.7	0.0	36.3

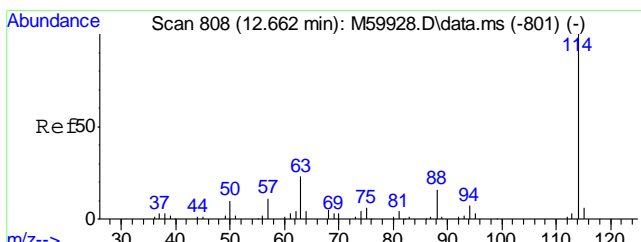
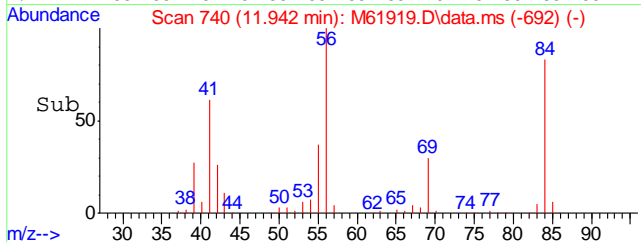
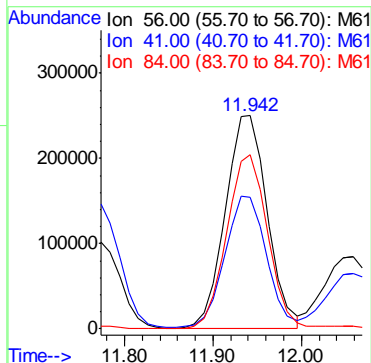
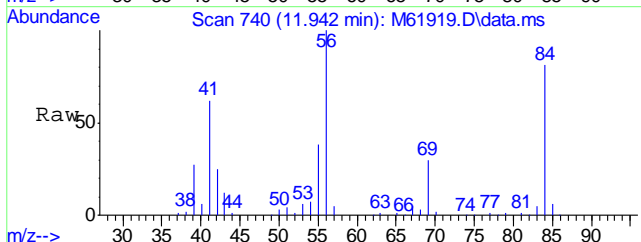




#38
Cyclohexane
Concen: 88.28 ppb
RT: 11.942 min Scan# 740
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

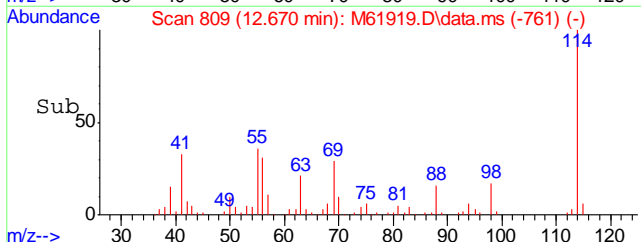
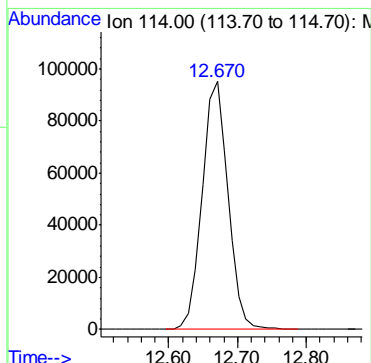
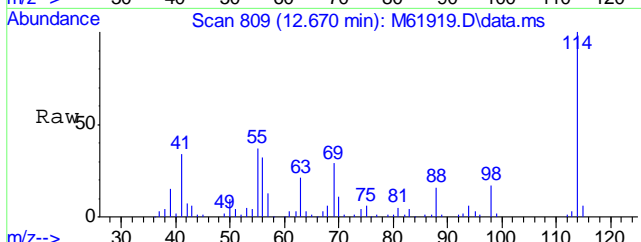
Tgt Ion: 56 Resp: 819367

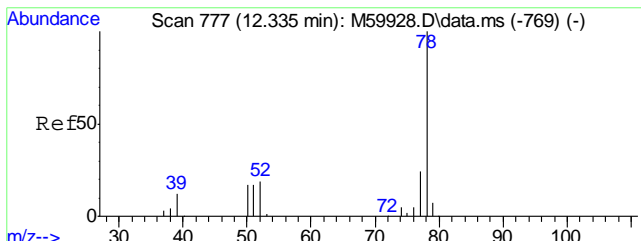
Ion	Ratio	Lower	Upper
56	100		
41	60.6	46.3	86.3
84	80.5	56.0	96.0



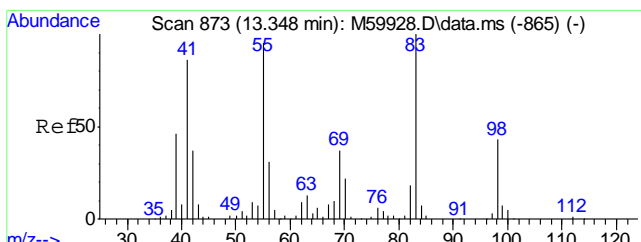
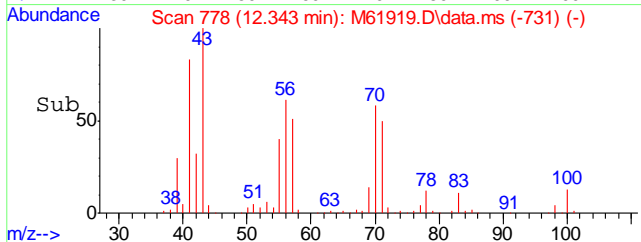
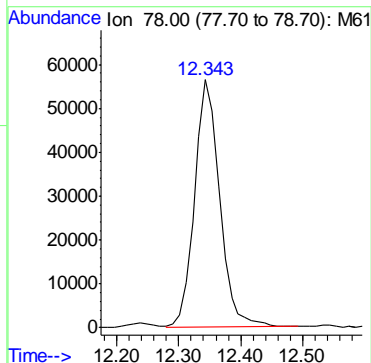
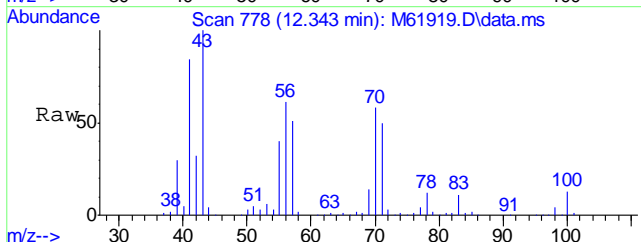
#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.670 min Scan# 809
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

Tgt Ion: 114 Resp: 248567



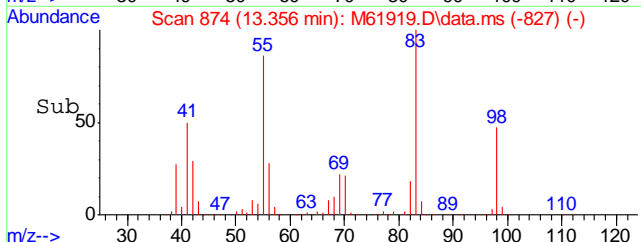
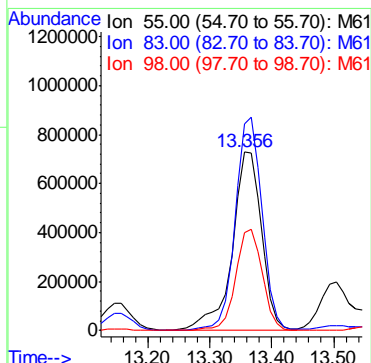
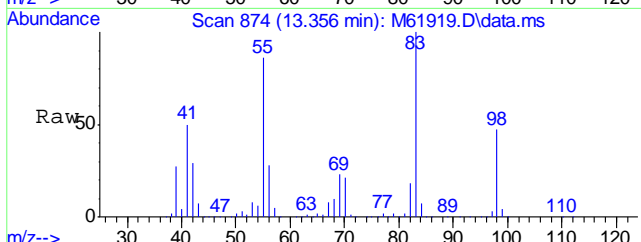


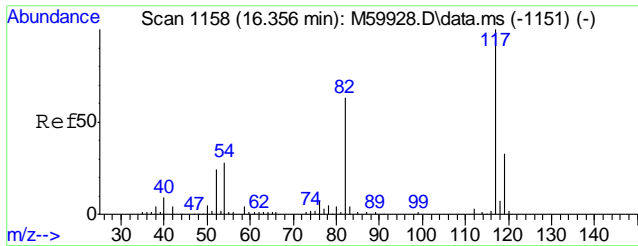
#45
Benzene
Concen: 7.96 ppb
RT: 12.343 min Scan# 778
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm
Tgt Ion: 78 Resp: 158479



#48
Methylcyclohexane
Concen: 298.44 ppb
RT: 13.356 min Scan# 874
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm
Tgt Ion: 55 Resp: 2390755

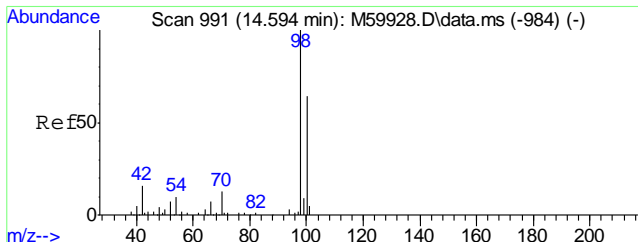
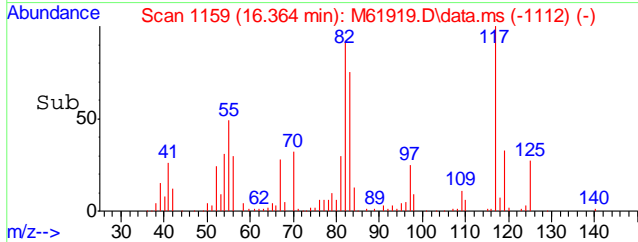
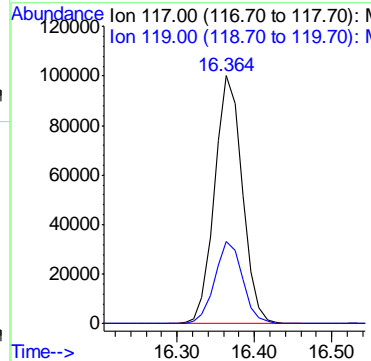
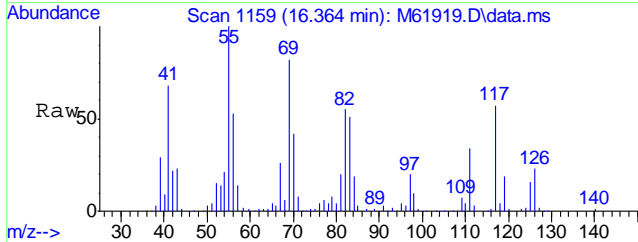
Ion	Ratio	Lower	Upper
55	100		
83	109.2	84.5	124.5
98	51.9	27.0	67.0





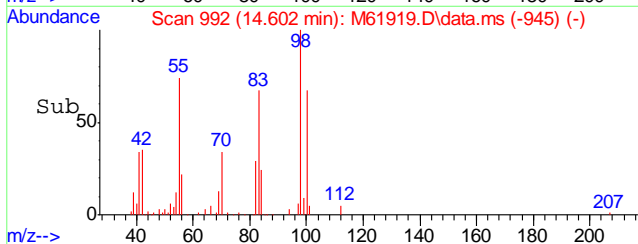
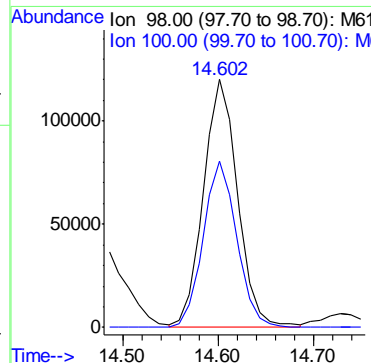
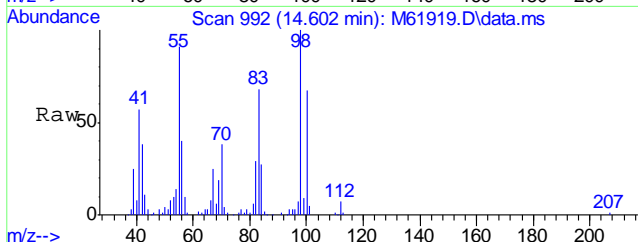
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.364 min Scan# 1159
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

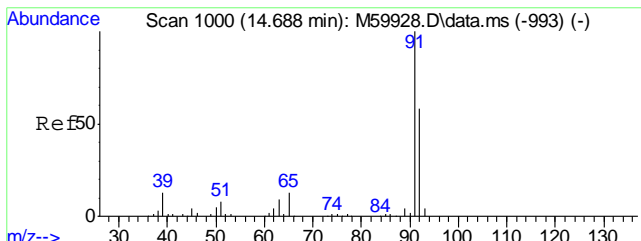
Tgt Ion	Resp	Lower	Upper
117	248911	100	
119	33.8	11.2	51.2



#56
 Toluene-d8
 Concen: 19.72 ppb
 RT: 14.602 min Scan# 992
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

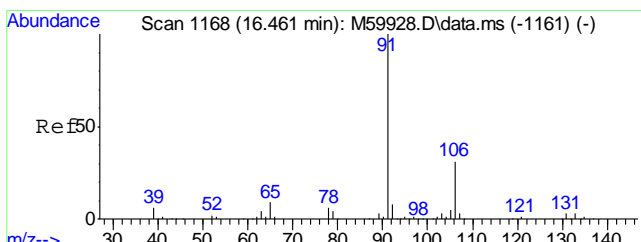
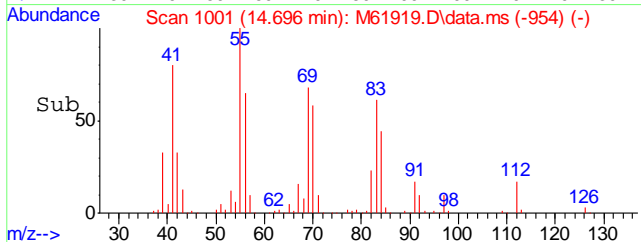
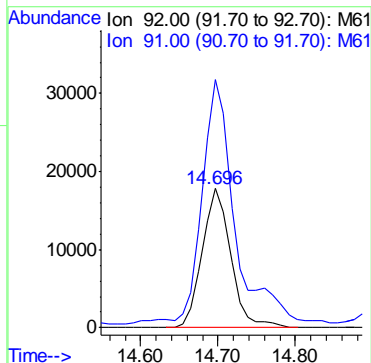
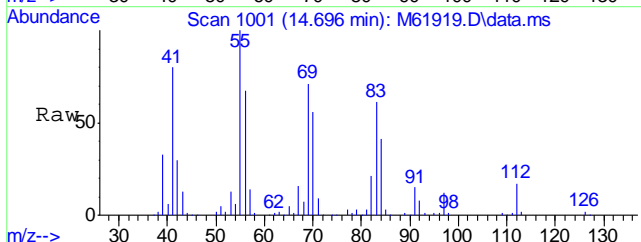
Tgt Ion	Resp	Lower	Upper
98	299163	100	
100	65.8	44.3	84.3





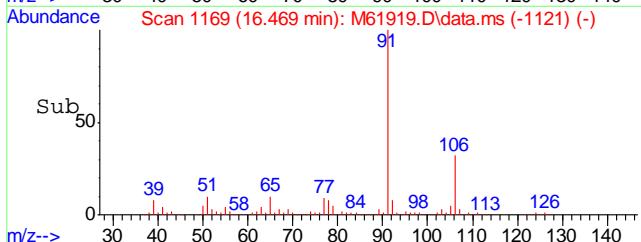
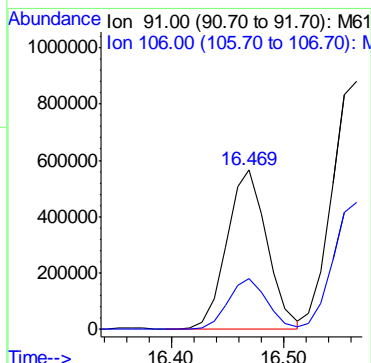
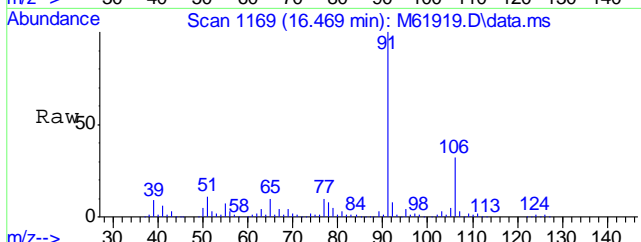
#57
Toluene
Concen: 3.81 ppb
RT: 14.696 min Scan# 1001
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

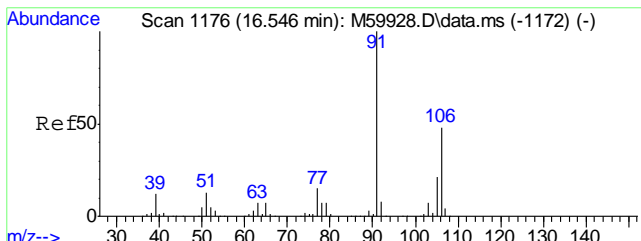
Tgt Ion: 92 Resp: 45789
Ion Ratio Lower Upper
92 100
91 204.5 150.5 190.5#



#67
Ethyl Benzene
Concen: 61.78 ppb
RT: 16.469 min Scan# 1169
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

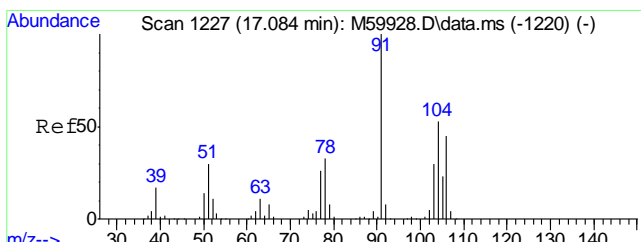
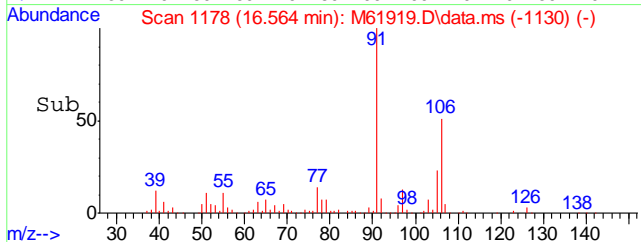
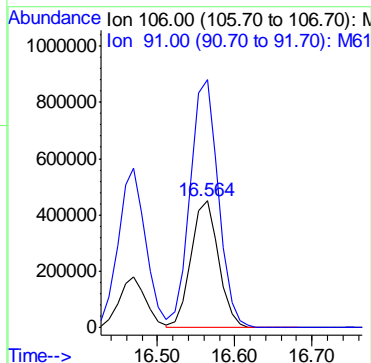
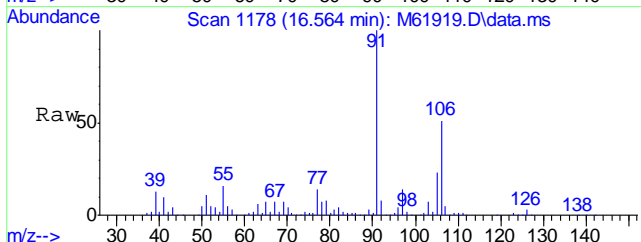
Tgt Ion: 91 Resp: 1397207
Ion Ratio Lower Upper
91 100
106 31.4 10.2 50.2





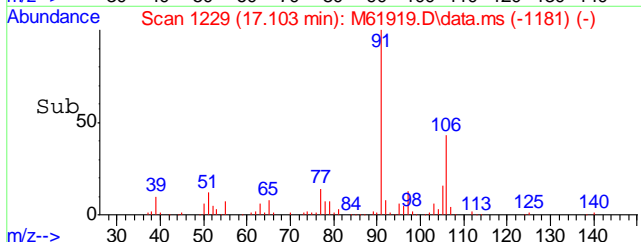
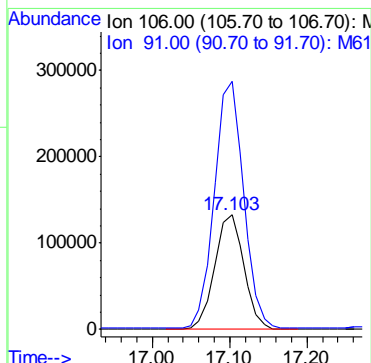
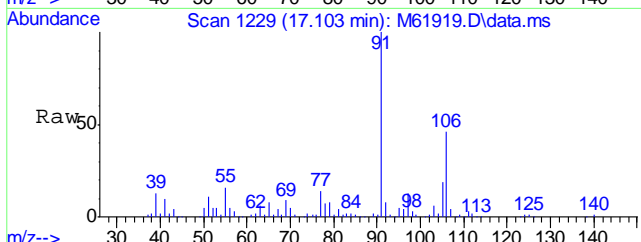
#68
Xylene, m+p
Concen: 129.85 ppb
RT: 16.564 min Scan# 1178
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

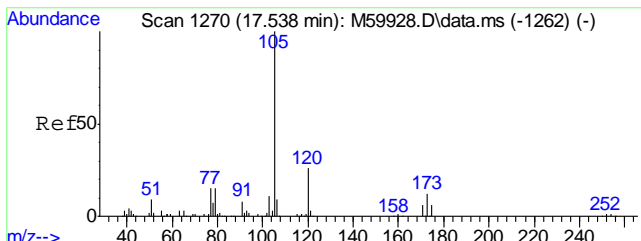
Tgt Ion	Resp	Lower	Upper
106	1109881	100	
91	199.5	191.5	231.5



#69
Xylene, o
Concen: 40.23 ppb
RT: 17.103 min Scan# 1229
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

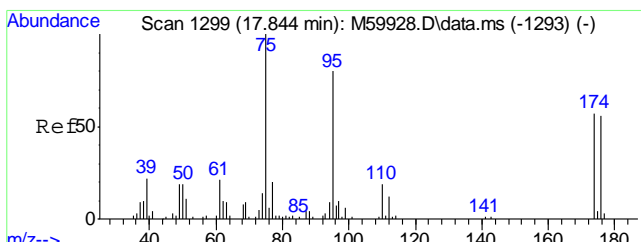
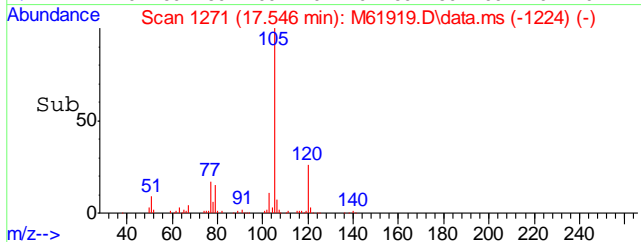
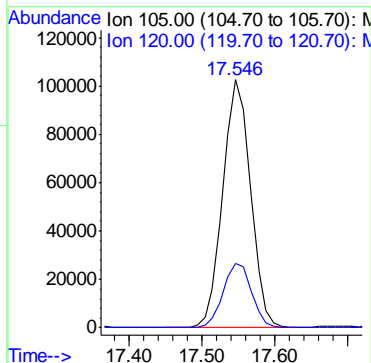
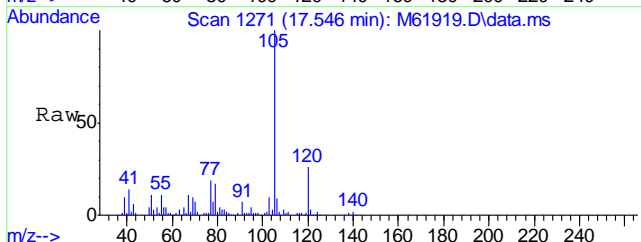
Tgt Ion	Resp	Lower	Upper
106	348896	100	
91	215.3	203.2	243.2





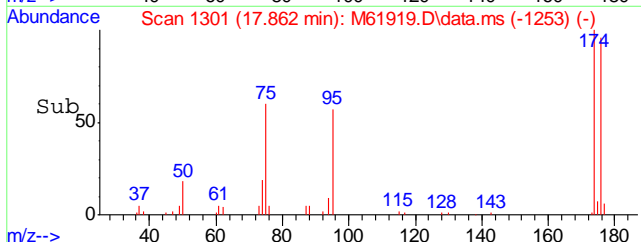
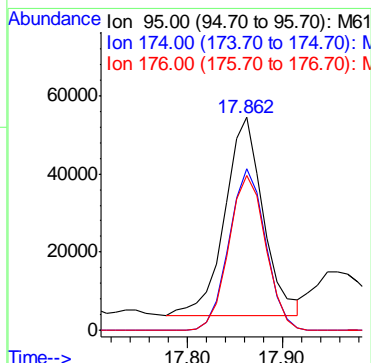
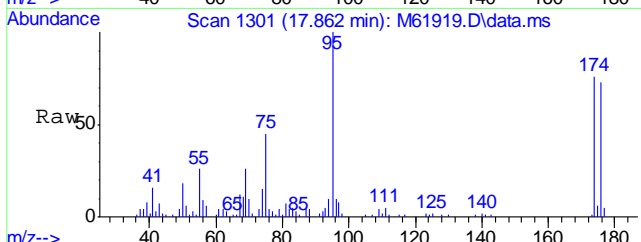
#73
Isopropylbenzene
Concen: 12.36 ppb
RT: 17.546 min Scan# 1271
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

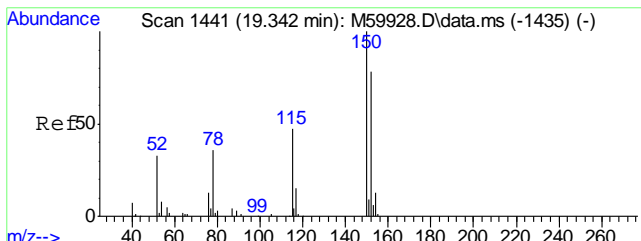
Tgt Ion	Resp	Lower	Upper
105	269991		
105	100		
120	26.3	5.7	45.7



#74
4-Bromofluorobenzene
Concen: 22.32 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

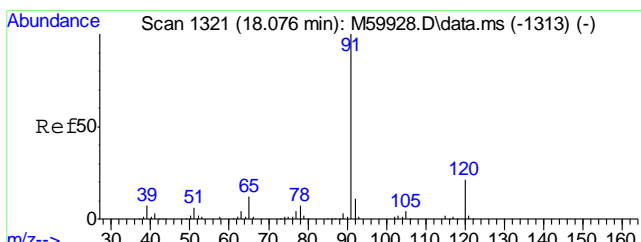
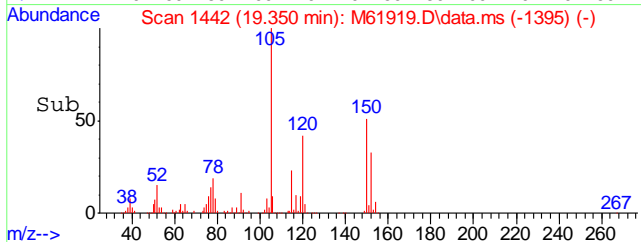
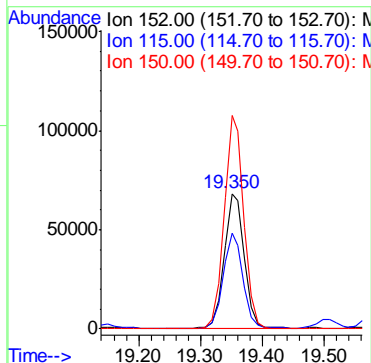
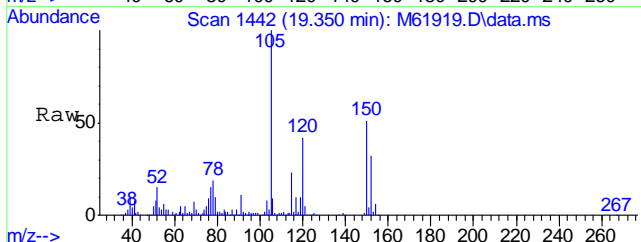
Tgt Ion	Resp	Lower	Upper
95	140710		
95	100		
174	78.1	54.3	94.3
176	75.6	51.5	91.5





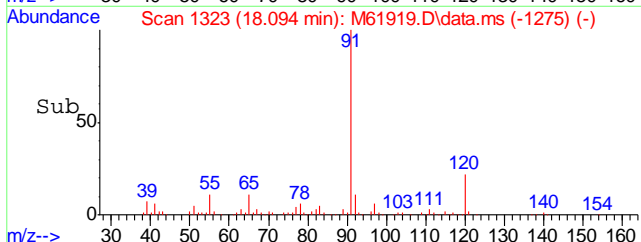
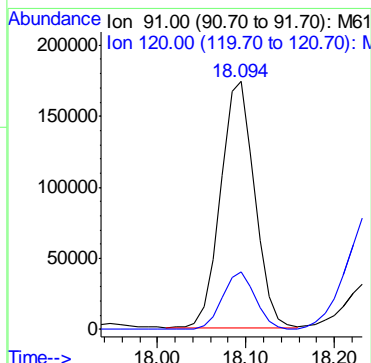
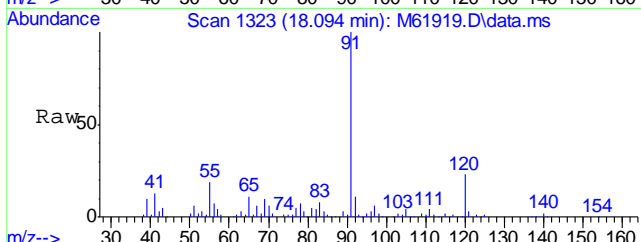
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.350 min Scan# 1442
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

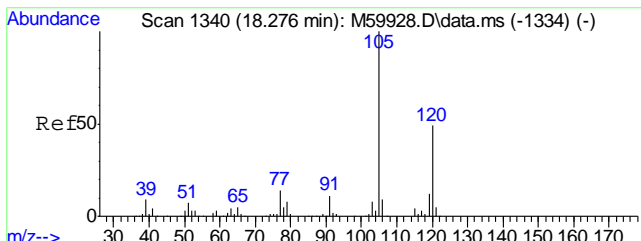
Tgt Ion	Resp	Lower	Upper
152	156154		
152	100		
115	70.5	40.9	80.9
150	151.6	178.6	218.6#



#79
n-Propylbenzene
Concen: 15.23 ppb
RT: 18.094 min Scan# 1323
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

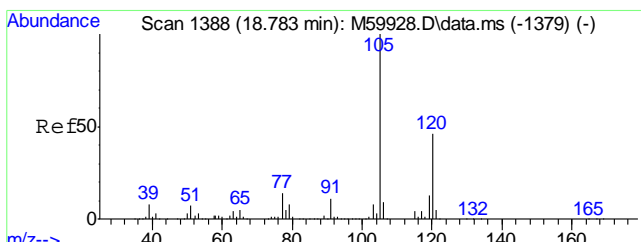
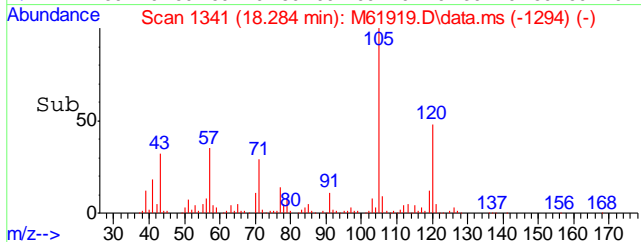
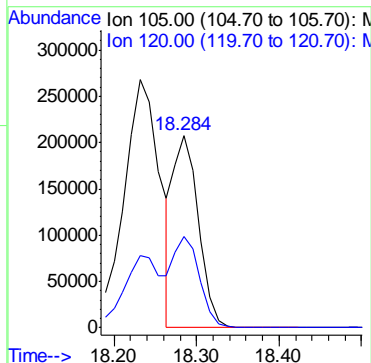
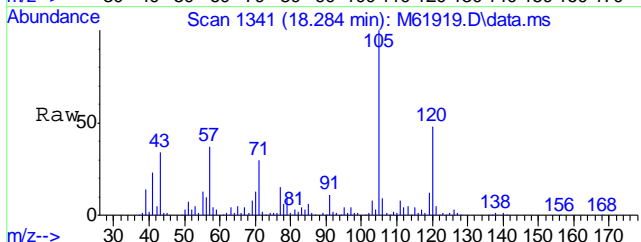
Tgt Ion	Resp	Lower	Upper
91	459082		
91	100		
120	22.8	1.3	41.3





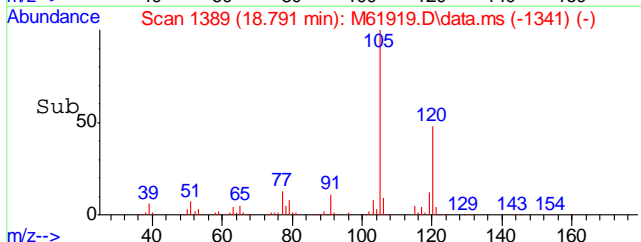
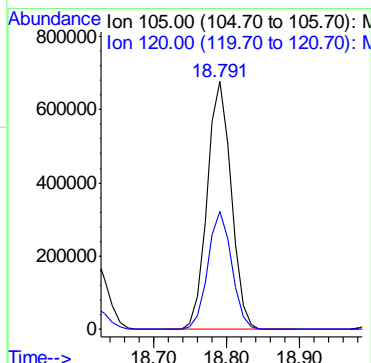
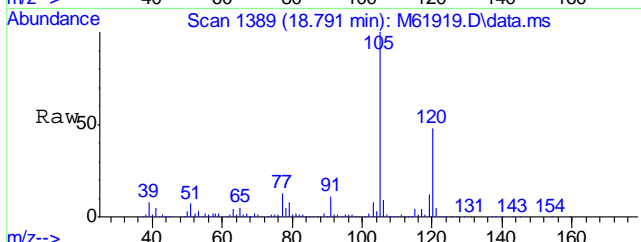
#81
 1,3,5-Trimethylbenzene
 Concen: 21.44 ppb
 RT: 18.284 min Scan# 1341
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

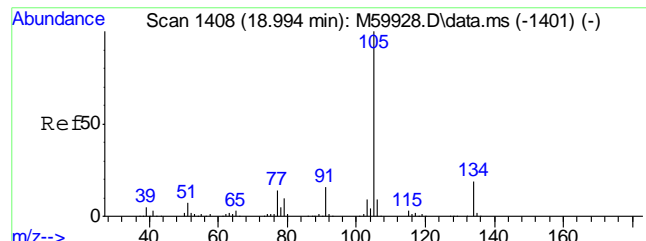
Tgt Ion	Resp	Lower	Upper
105	437307	100	
120	49.0	26.6	66.6



#86
 1,2,4-Trimethylbenzene
 Concen: 73.23 ppb
 RT: 18.791 min Scan# 1389
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

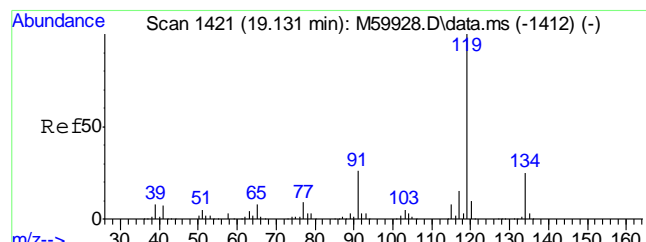
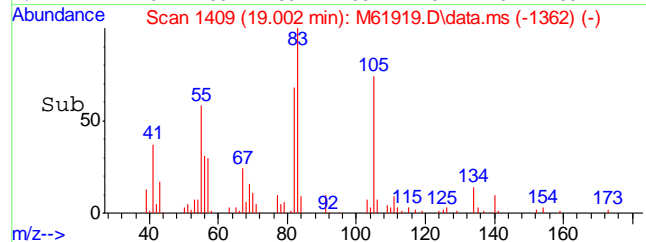
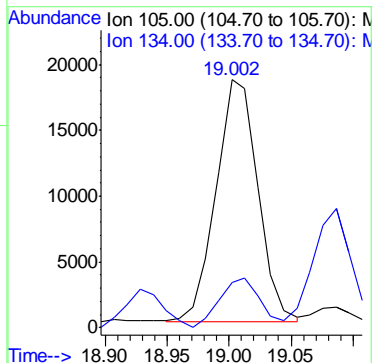
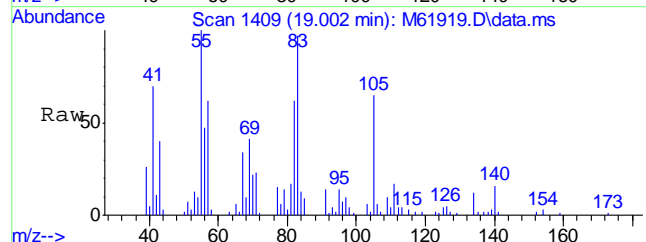
Tgt Ion	Resp	Lower	Upper
105	1556562	100	
120	47.0	32.4	72.4





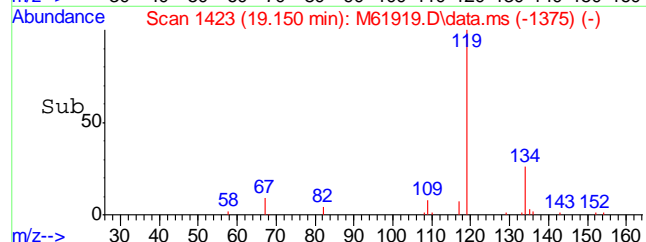
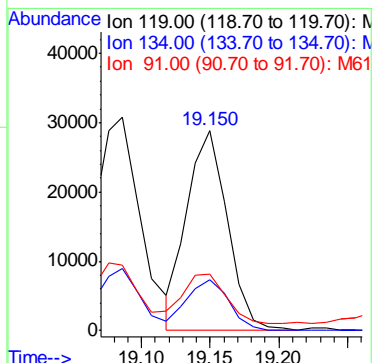
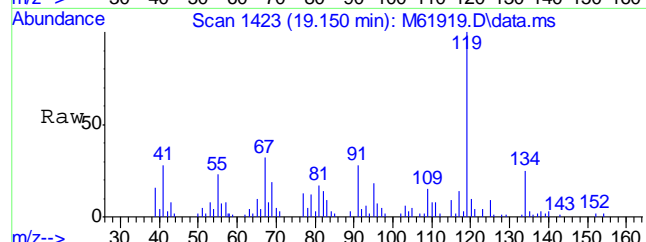
#87
 sec-Butylbenzene
 Concen: 1.64 ppb
 RT: 19.002 min Scan# 1409
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

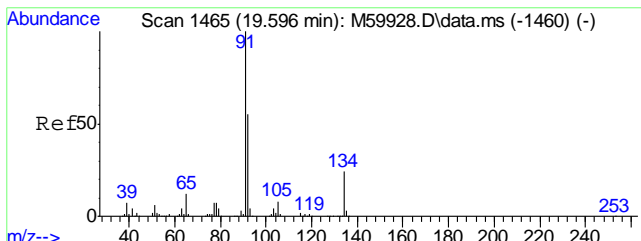
Tgt Ion	Resp	Lower	Upper
105	43547	100	
134	20.1	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 2.68 ppb
 RT: 19.150 min Scan# 1423
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

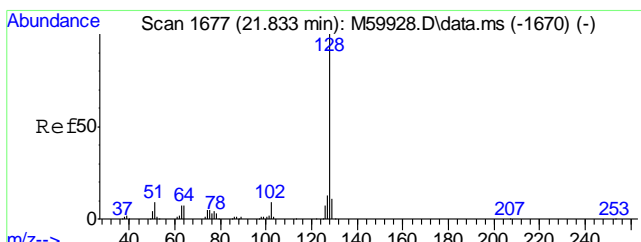
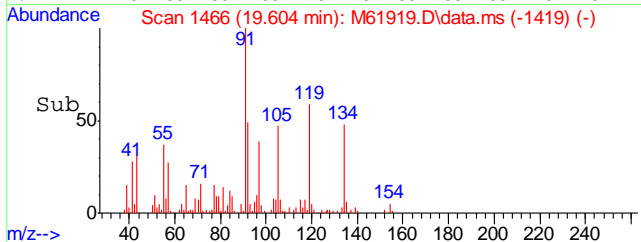
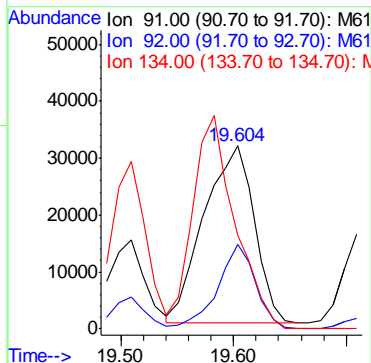
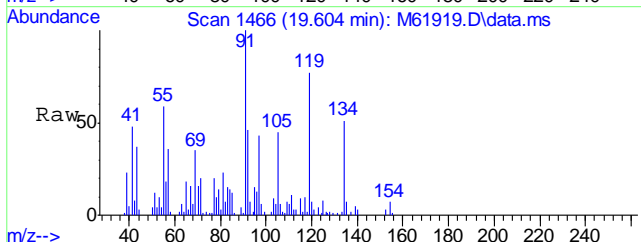
Tgt Ion	Resp	Lower	Upper
119	59146	100	
134	26.3	6.0	46.0
91	27.4	6.0	46.0





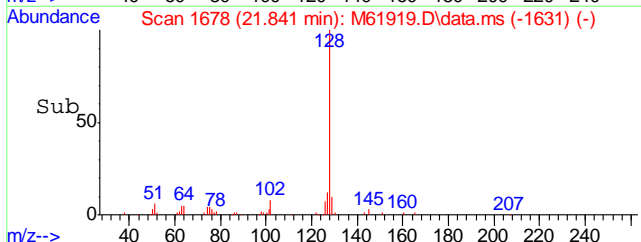
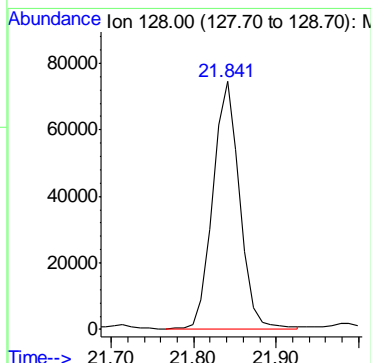
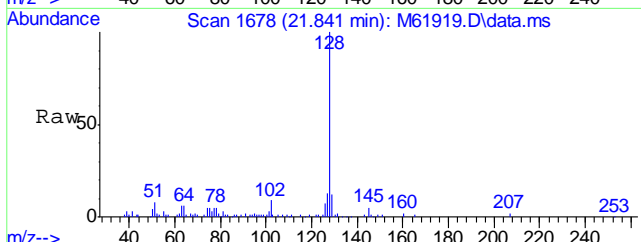
#92
 n-Butylbenzene
 Concen: 4.50 ppb
 RT: 19.604 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

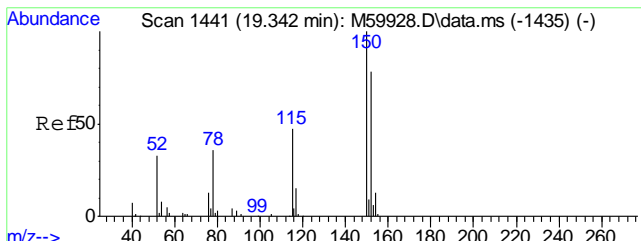
Tgt Ion	Resp	Lower	Upper
91	96220		
92	35.9	35.3	75.3
134	101.0	3.6	43.6#



#97
 Naphthalene
 Concen: 9.01 ppb
 RT: 21.841 min Scan# 1678
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

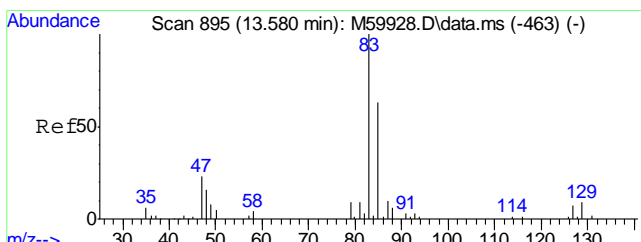
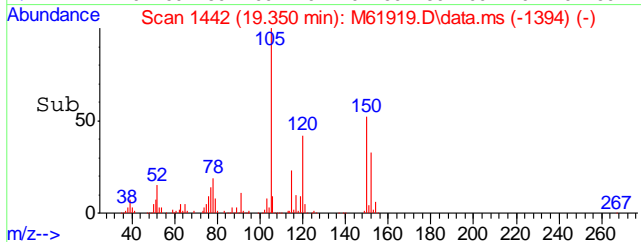
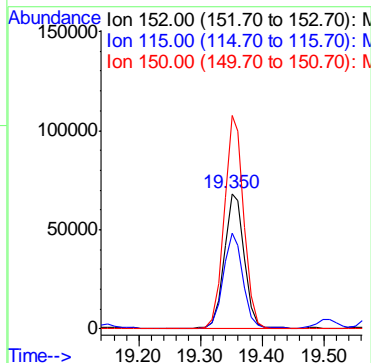
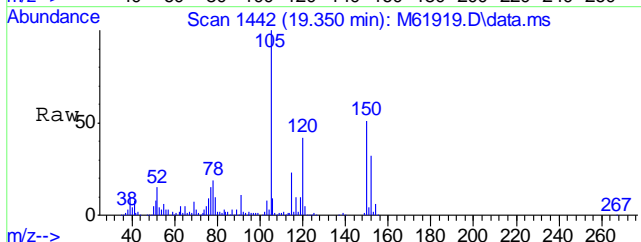
Tgt Ion	Resp
128	169399





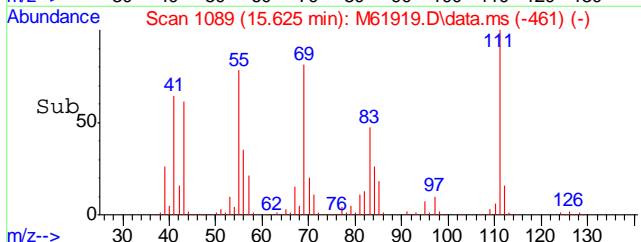
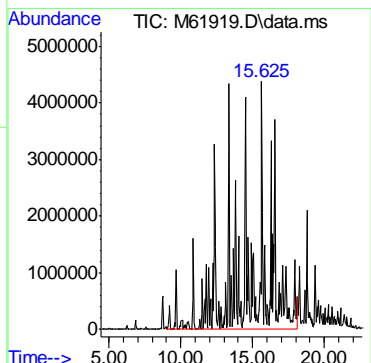
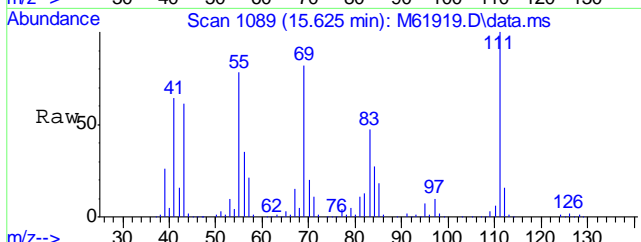
#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.350 min Scan# 1442
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

Tgt Ion	Resp	Lower	Upper
152	156154		
152	100		
115	70.5	37.3	77.3
150	151.6	176.0	216.0#



#100
TPH-GRO (C6-C10)
Concen: 7780.40 ppb m
RT: 15.625 min Scan# 1089
Delta R.T. 2.075 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

Tgt Ion:TIC Resp:255502601



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
Data File : M61919.D
Acq On : 18 Jul 2016 7:47 pm
Operator : johannat
Sample : C46435-15R
Misc : MS1912,VM1861,5.63,,40,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 02 10:12:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
Quant Title : EPA 8260B
QLast Update : Mon Jul 18 09:14:24 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, and 1,4-Dichlorobenzene-d4A.

Table with 7 columns: System Monitoring Compounds, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Dibromofluoromethane, Toluene-d8, and 4-Bromofluorobenzene with Spiked Amount and Recovery percentages.

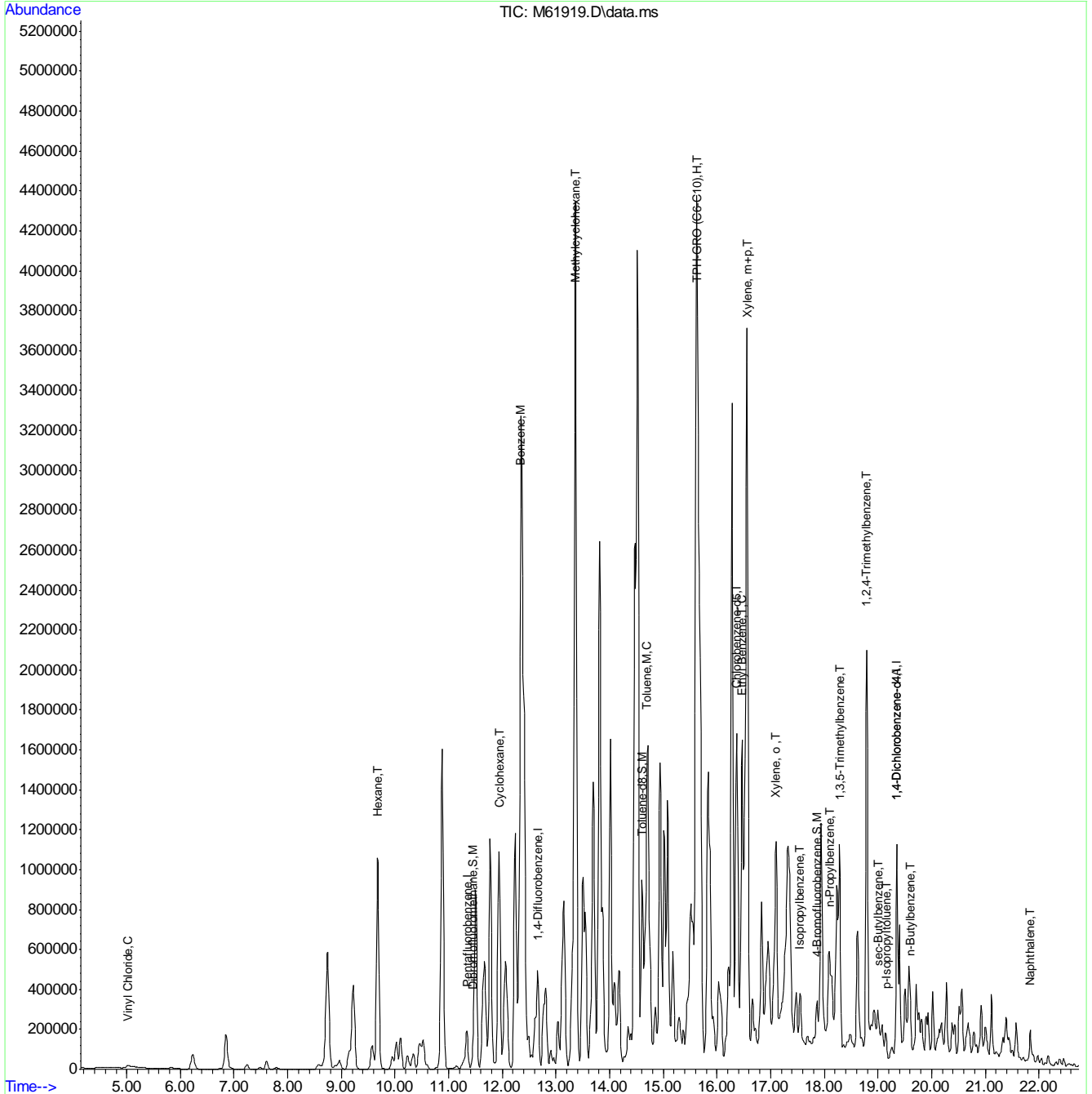
Table with 7 columns: Target Compounds, R.T., QIon, Response, Conc, Units, Qvalue. Lists various compounds like Vinyl Chloride, Hexane, Cyclohexane, Benzene, Methylcyclohexane, Toluene, Ethyl Benzene, Xylene, Isopropylbenzene, n-Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Naphthalene, and TPH-GRO (C6-C10).

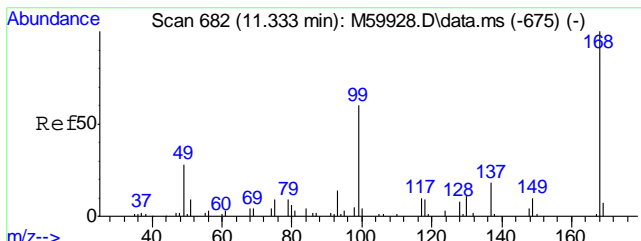
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

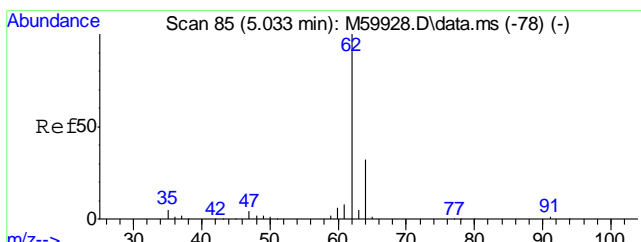
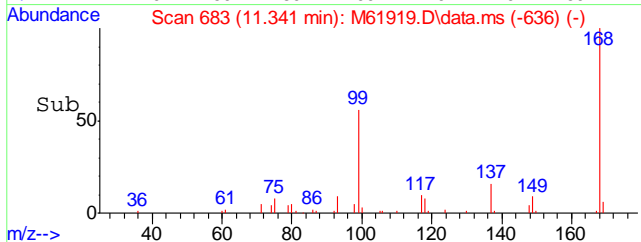
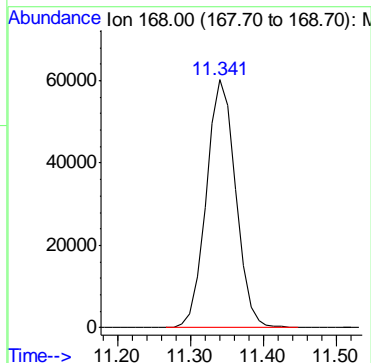
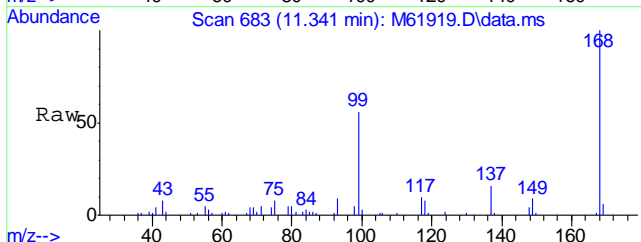
Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61919.D
 Acq On : 18 Jul 2016 7:47 pm
 Operator : johannat
 Sample : C46435-15R
 Misc : MS1912,VM1861,5.63,,40,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 02 10:12:40 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

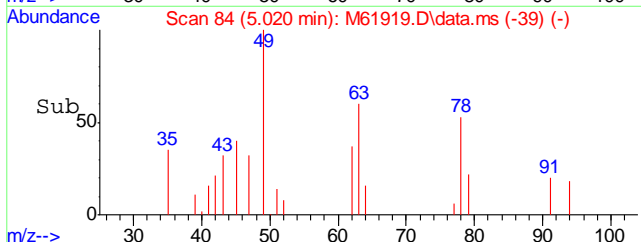
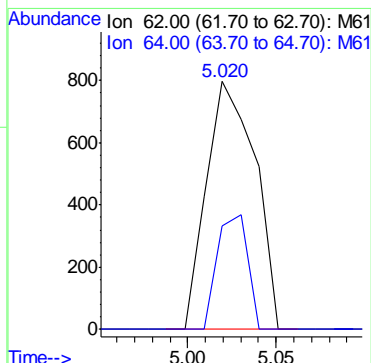
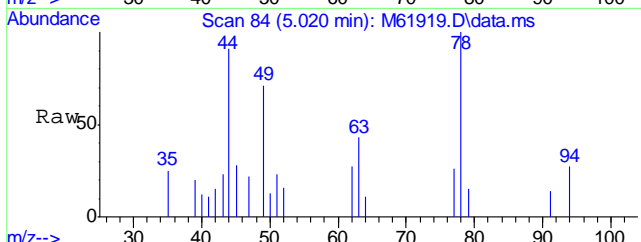


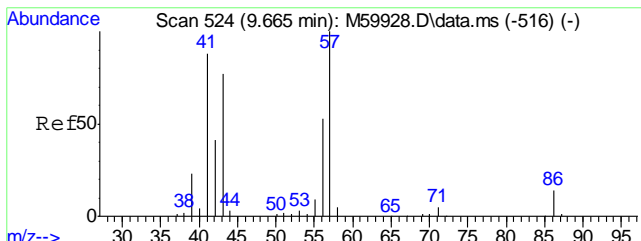


#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.341 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm
 Tgt Ion:168 Resp: 168733



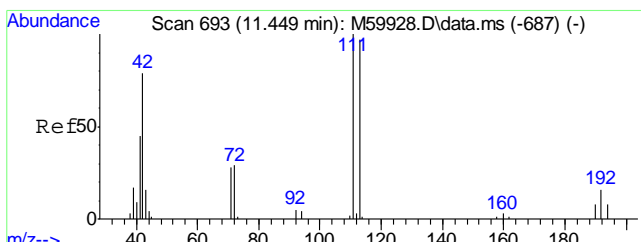
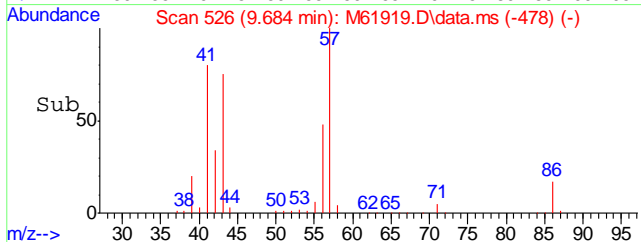
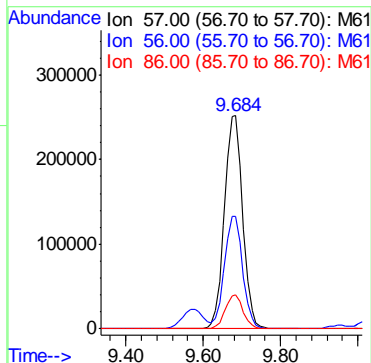
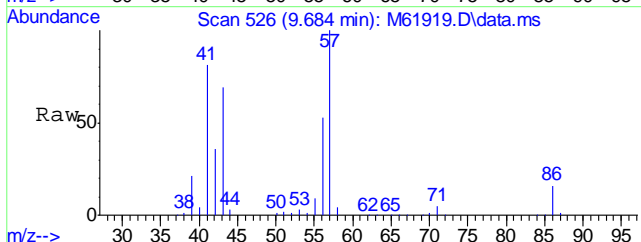
#4
 Vinyl Chloride
 Concen: 0.32 ppb
 RT: 5.020 min Scan# 84
 Delta R.T. -0.024 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm
 Tgt Ion: 62 Resp: 1534
 Ion Ratio Lower Upper
 62 100
 64 0.0 11.8 51.8#





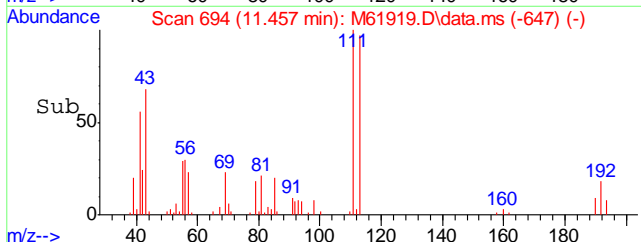
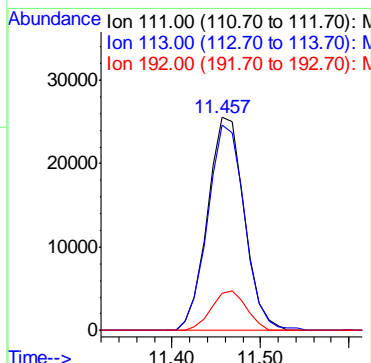
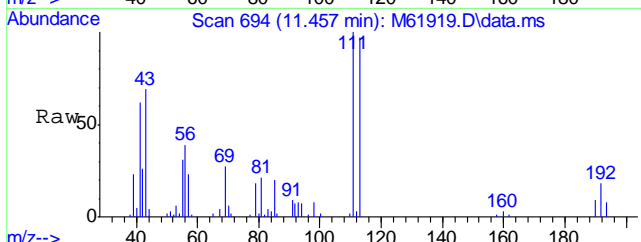
#24
Hexane
Concen: 111.49 ppb
RT: 9.684 min Scan# 526
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

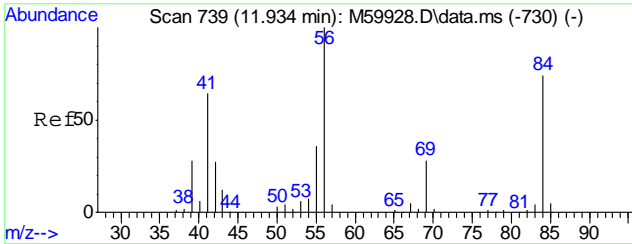
Tgt Ion	Resp	Lower	Upper
57	836678		
56	52.4	32.9	72.9
86	15.3	0.0	34.1



#36
Dibromofluoromethane
Concen: 18.47 ppb
RT: 11.457 min Scan# 694
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

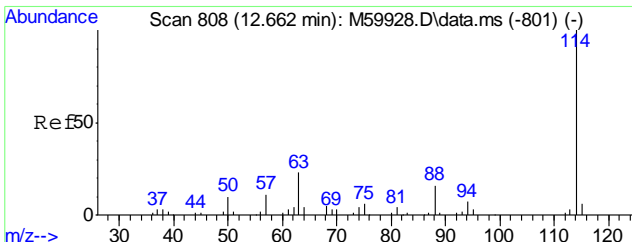
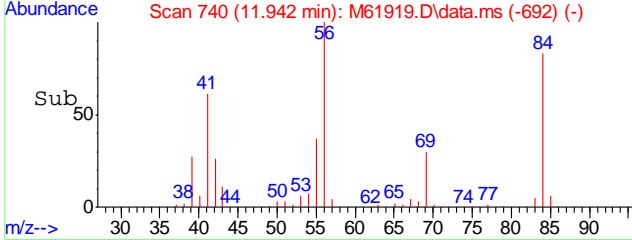
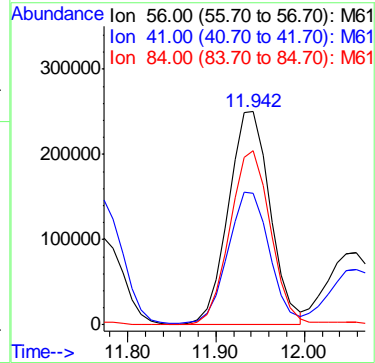
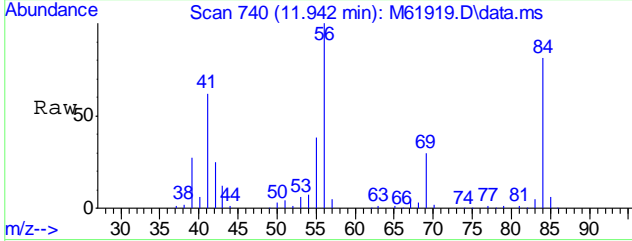
Tgt Ion	Resp	Lower	Upper
111	73968		
113	96.9	77.7	117.7
192	17.7	0.0	36.3





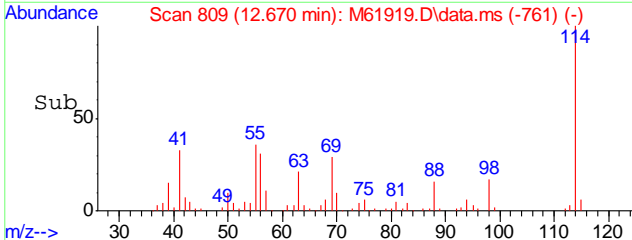
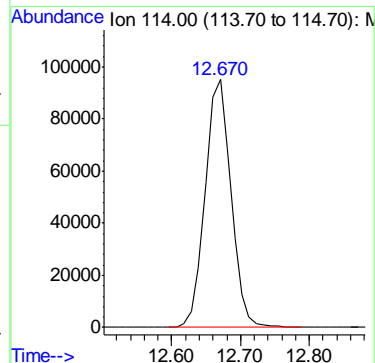
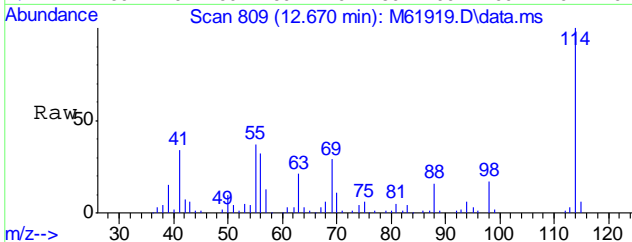
#38
 Cyclohexane
 Concen: 88.28 ppb
 RT: 11.942 min Scan# 740
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

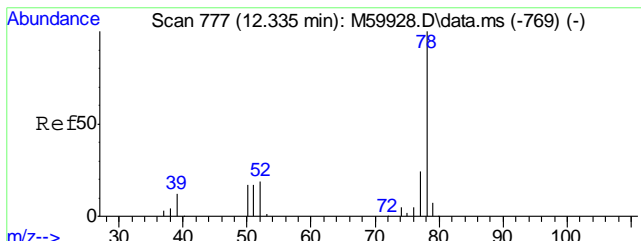
Tgt Ion	Resp	Lower	Upper
56	100		
41	60.6	46.3	86.3
84	80.5	56.0	96.0



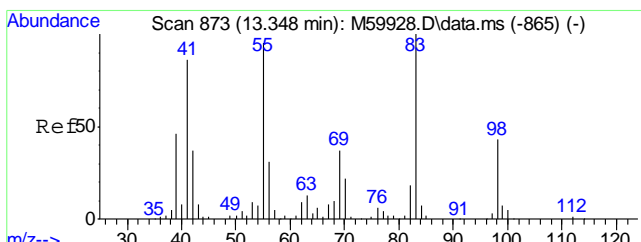
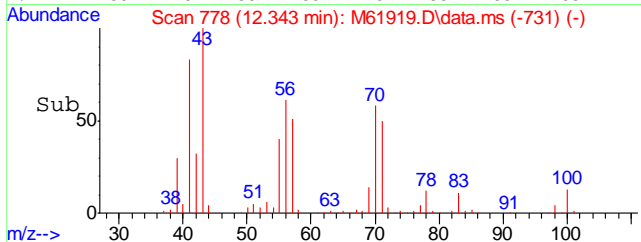
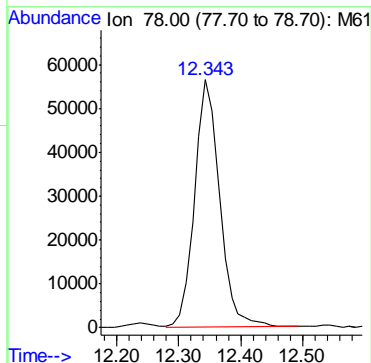
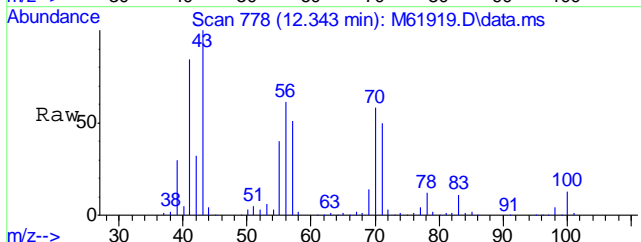
#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.670 min Scan# 809
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

Tgt Ion: 114 Resp: 248567



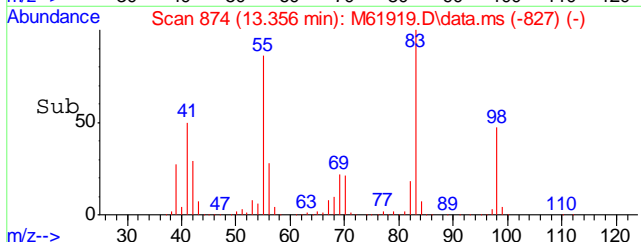
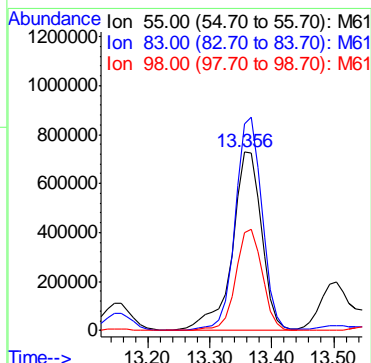
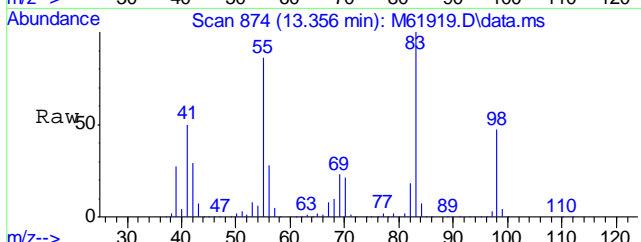


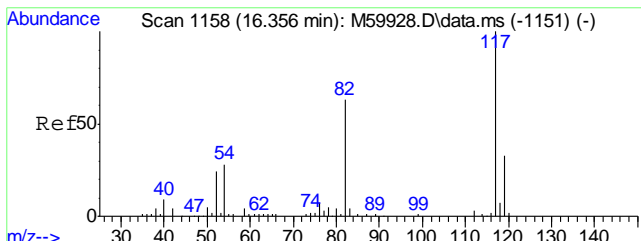
#45
Benzene
Concen: 7.96 ppb
RT: 12.343 min Scan# 778
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm
Tgt Ion: 78 Resp: 158479



#48
Methylcyclohexane
Concen: 298.44 ppb
RT: 13.356 min Scan# 874
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm
Tgt Ion: 55 Resp: 2390755

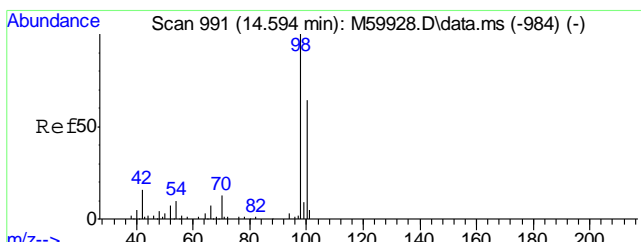
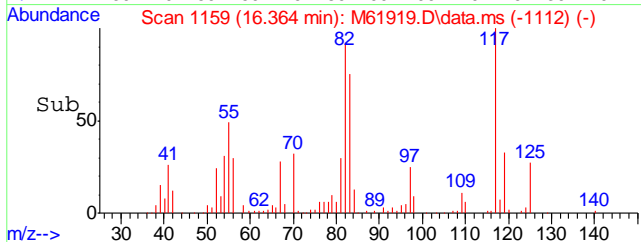
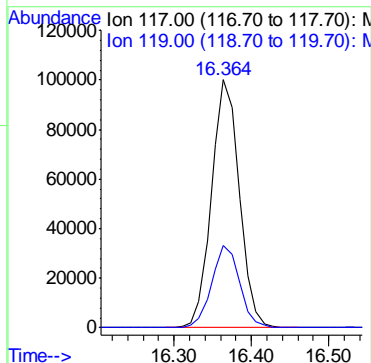
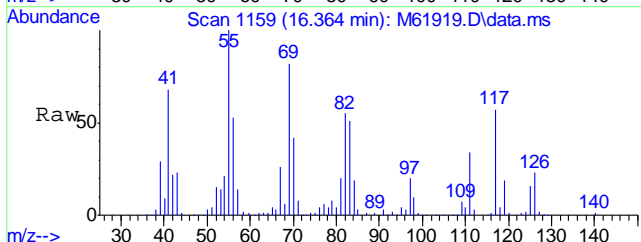
Ion	Ratio	Lower	Upper
55	100		
83	109.2	84.5	124.5
98	51.9	27.0	67.0





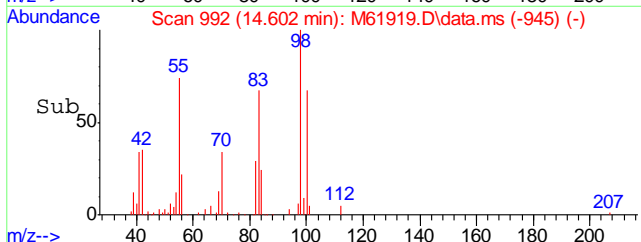
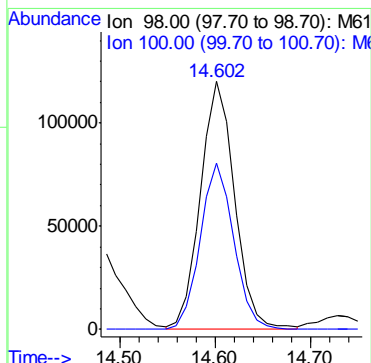
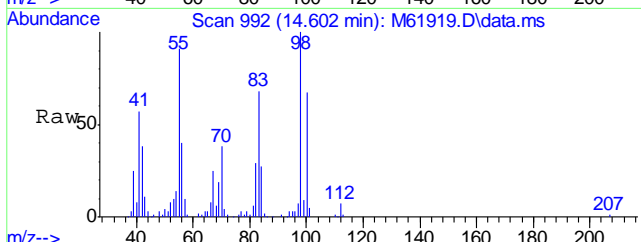
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.364 min Scan# 1159
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

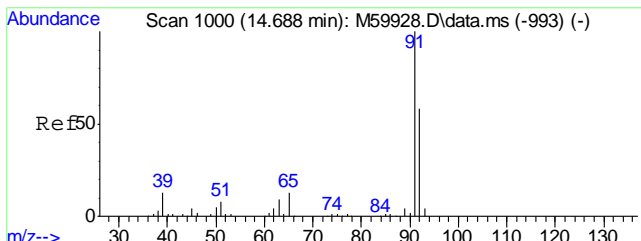
Tgt Ion	Resp	Lower	Upper
117	248911	100	
119	33.8	11.2	51.2



#56
Toluene-d8
Concen: 19.72 ppb
RT: 14.602 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

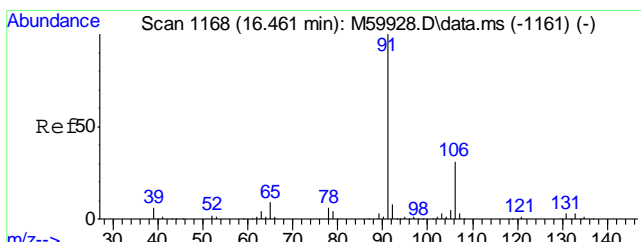
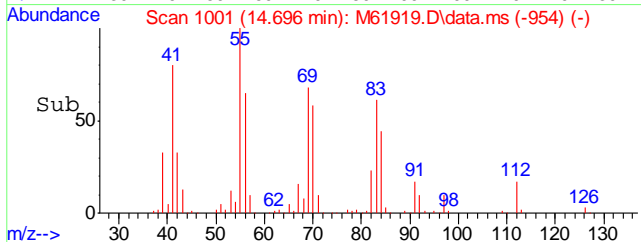
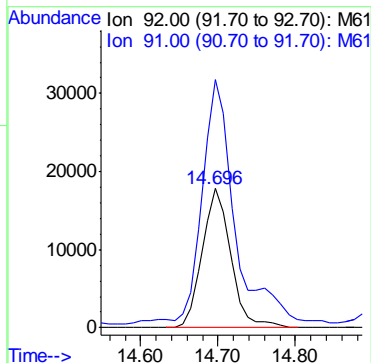
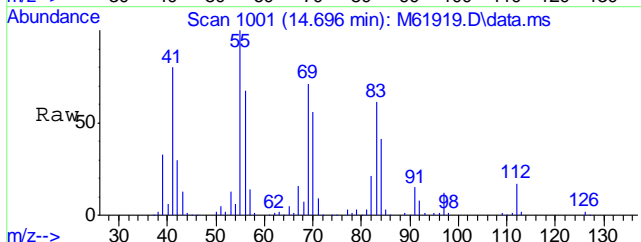
Tgt Ion	Resp	Lower	Upper
98	299163	100	
100	65.8	44.3	84.3





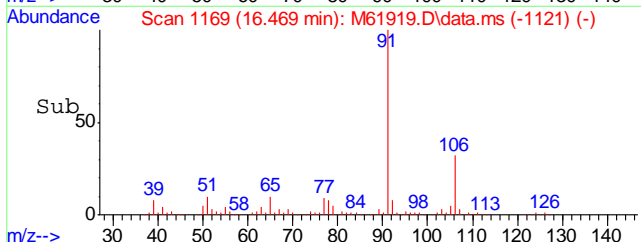
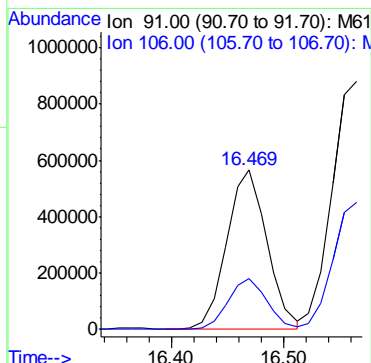
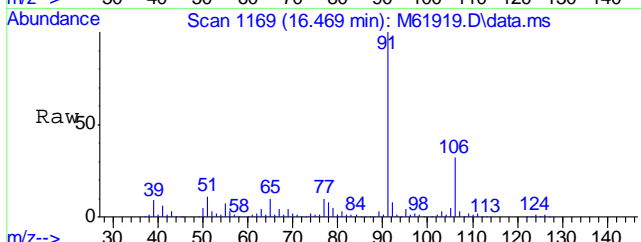
#57
Toluene
Concen: 3.81 ppb
RT: 14.696 min Scan# 1001
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

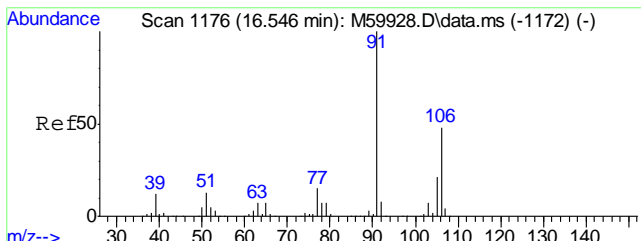
Tgt Ion: 92 Resp: 45789
Ion Ratio Lower Upper
92 100
91 204.5 150.5 190.5#



#67
Ethyl Benzene
Concen: 61.78 ppb
RT: 16.469 min Scan# 1169
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

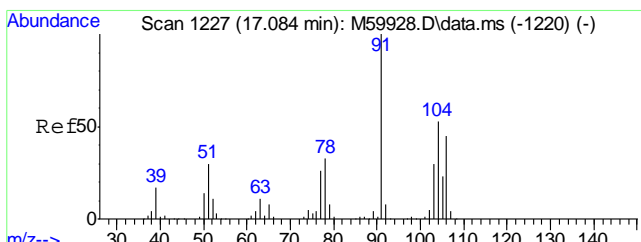
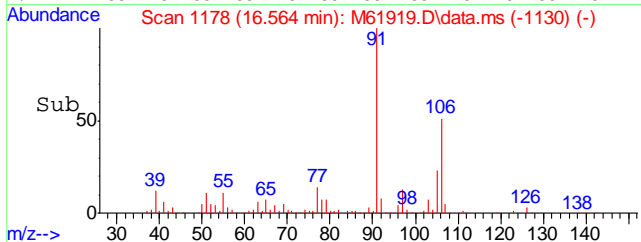
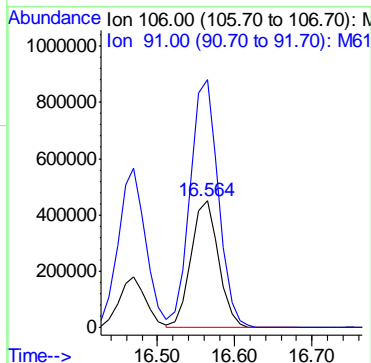
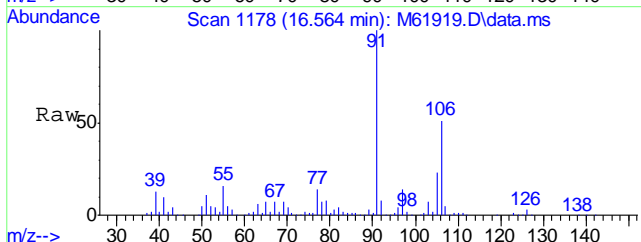
Tgt Ion: 91 Resp: 1397207
Ion Ratio Lower Upper
91 100
106 31.4 10.2 50.2





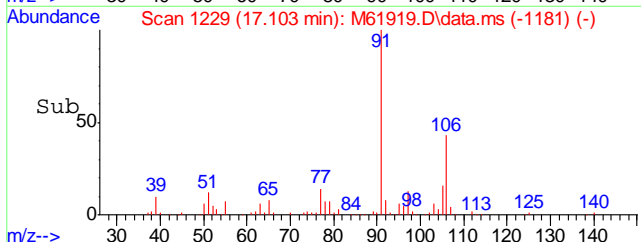
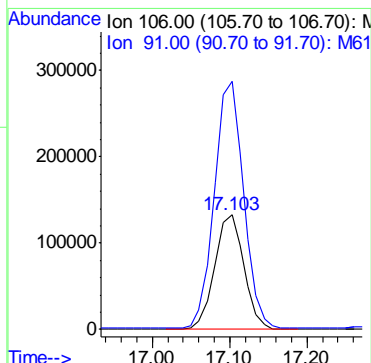
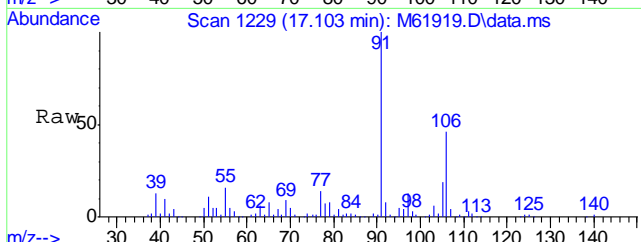
#68
 Xylene, m+p
 Concen: 129.85 ppb
 RT: 16.564 min Scan# 1178
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

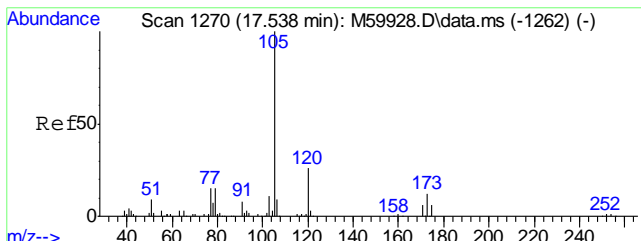
Tgt Ion	Resp	Lower	Upper
106	1109881		
106	100		
91	199.5	191.5	231.5



#69
 Xylene, o
 Concen: 40.23 ppb
 RT: 17.103 min Scan# 1229
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

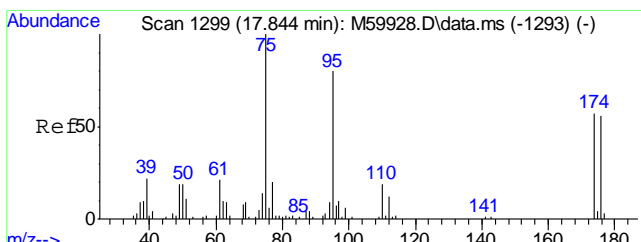
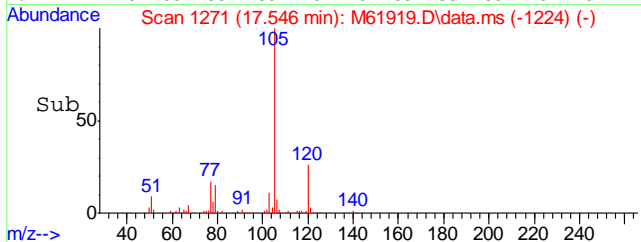
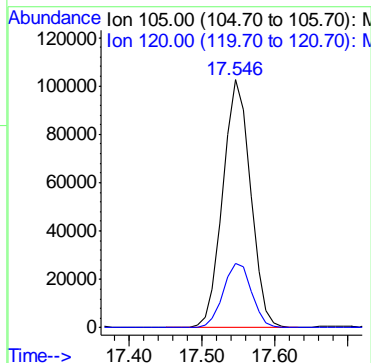
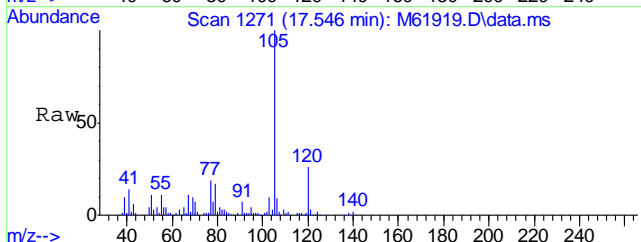
Tgt Ion	Resp	Lower	Upper
106	348896		
106	100		
91	215.3	203.2	243.2





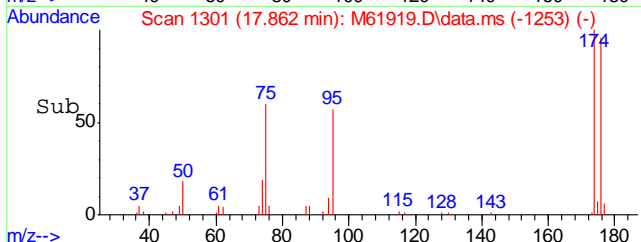
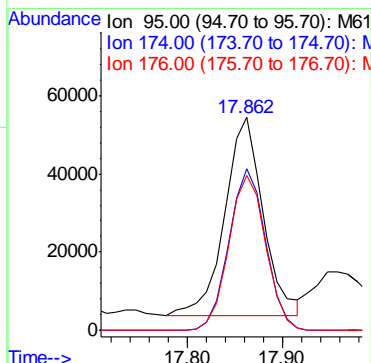
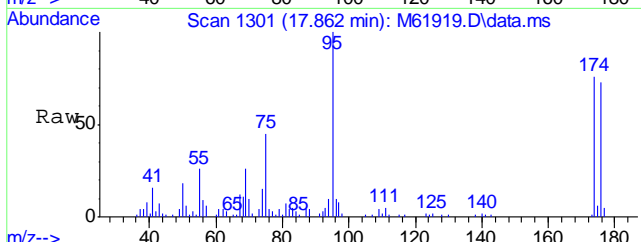
#73
Isopropylbenzene
Concen: 12.36 ppb
RT: 17.546 min Scan# 1271
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

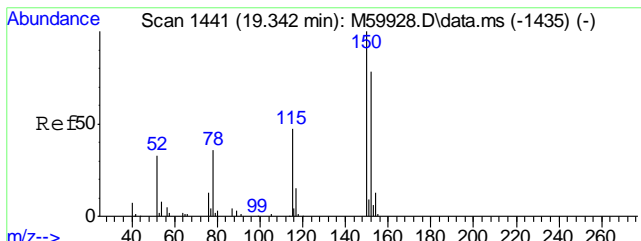
Tgt Ion	Resp	Lower	Upper
105	269991		
105	100		
120	26.3	5.7	45.7



#74
4-Bromofluorobenzene
Concen: 22.32 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

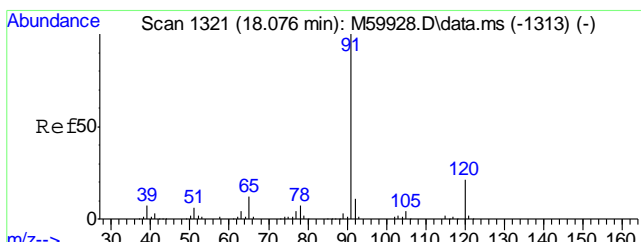
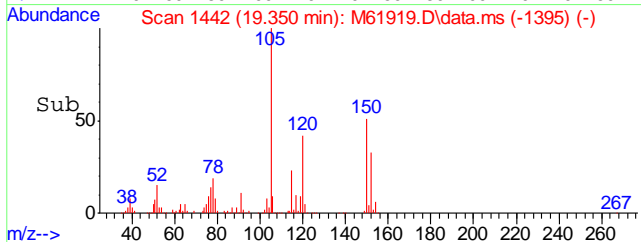
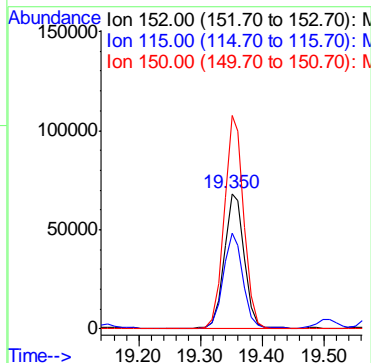
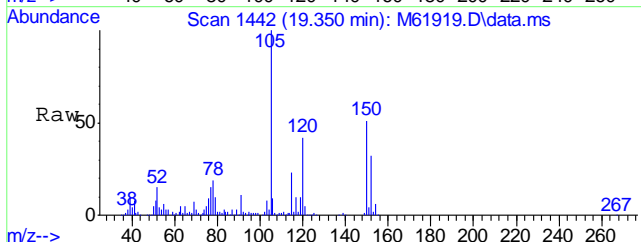
Tgt Ion	Resp	Lower	Upper
95	140710		
95	100		
174	78.1	54.3	94.3
176	75.6	51.5	91.5





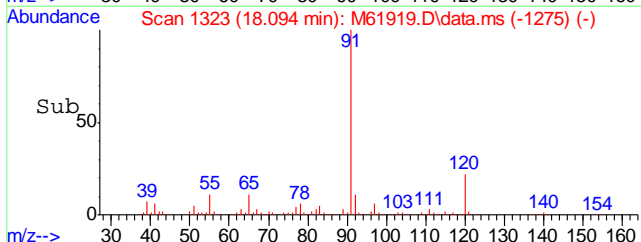
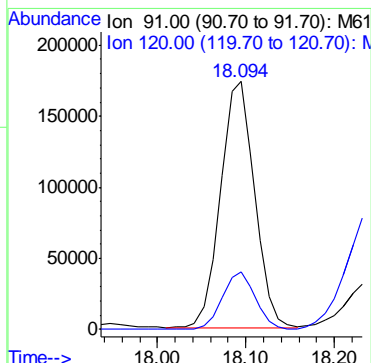
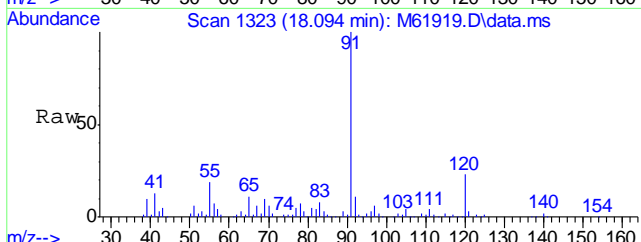
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.350 min Scan# 1442
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

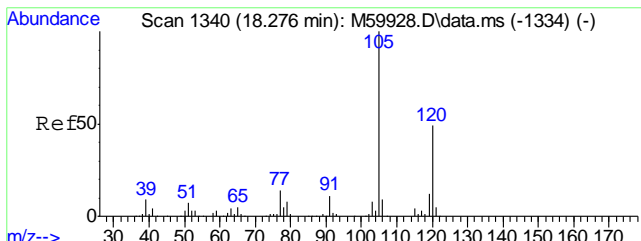
Tgt Ion	Resp	Lower	Upper
152	156154		
152	100		
115	70.5	40.9	80.9
150	151.6	178.6	218.6#



#79
n-Propylbenzene
Concen: 15.23 ppb
RT: 18.094 min Scan# 1323
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

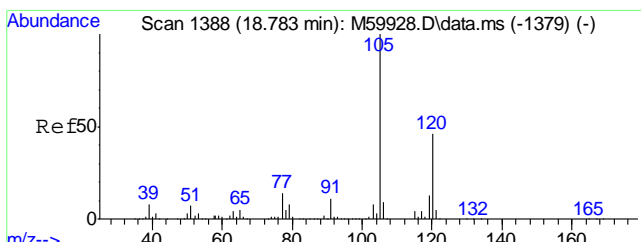
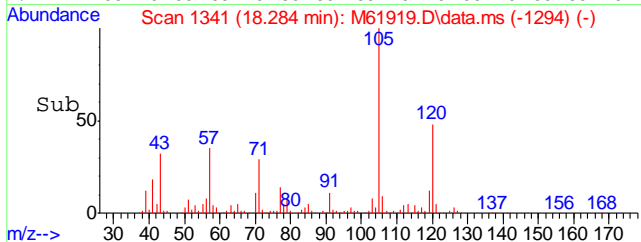
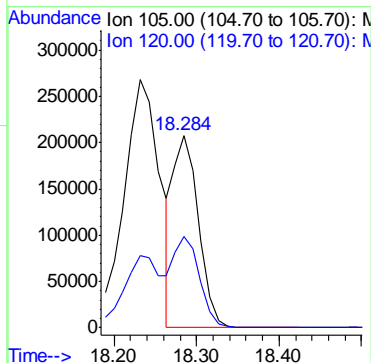
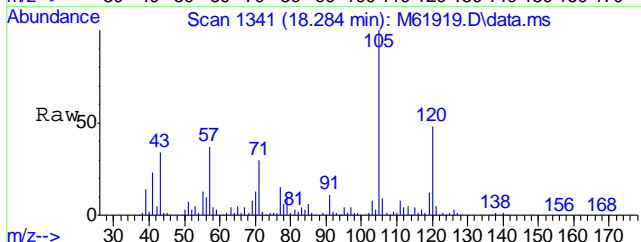
Tgt Ion	Resp	Lower	Upper
91	459082		
91	100		
120	22.8	1.3	41.3





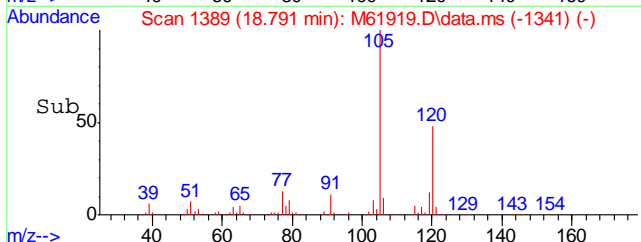
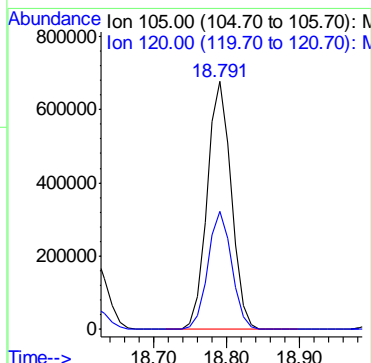
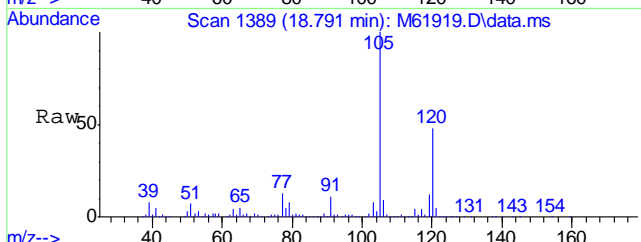
#81
1,3,5-Trimethylbenzene
Concen: 21.44 ppb
RT: 18.284 min Scan# 1341
Delta R.T. -0.003 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

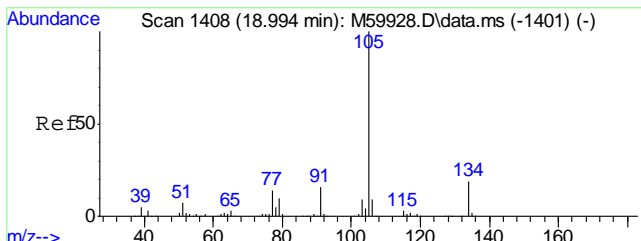
Tgt Ion	Resp	Lower	Upper
105	437307	100	
120	49.0	26.6	66.6



#86
1,2,4-Trimethylbenzene
Concen: 73.23 ppb
RT: 18.791 min Scan# 1389
Delta R.T. 0.008 min
Lab File: M61919.D
Acq: 18 Jul 2016 7:47 pm

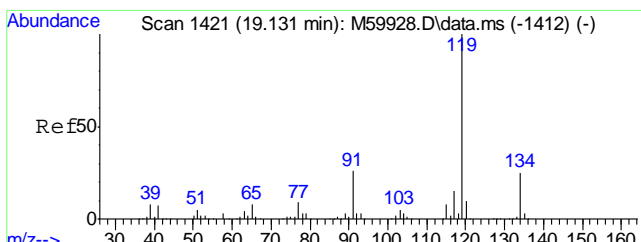
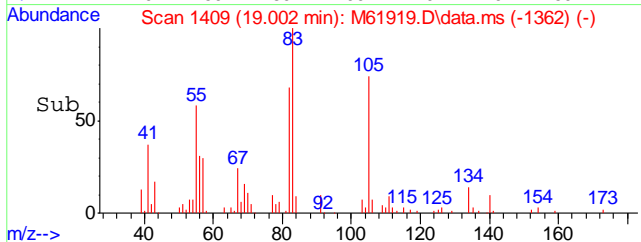
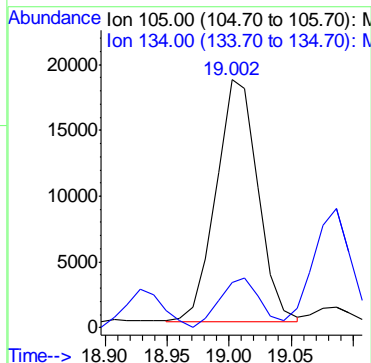
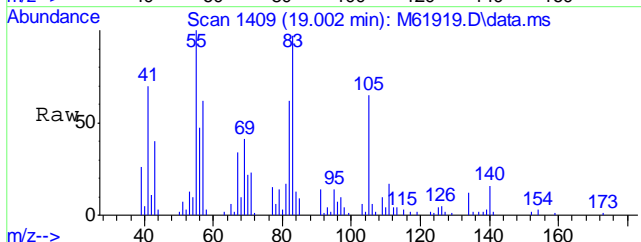
Tgt Ion	Resp	Lower	Upper
105	1556562	100	
120	47.0	32.4	72.4





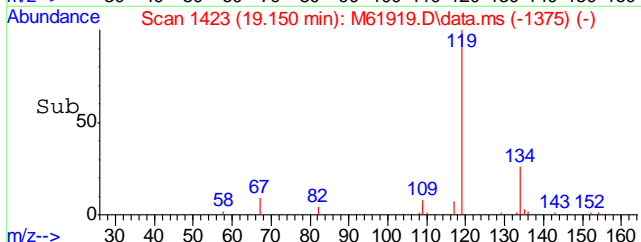
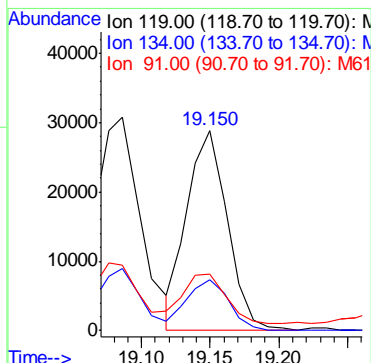
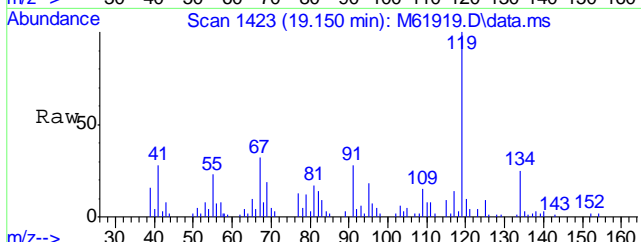
#87
 sec-Butylbenzene
 Concen: 1.64 ppb
 RT: 19.002 min Scan# 1409
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

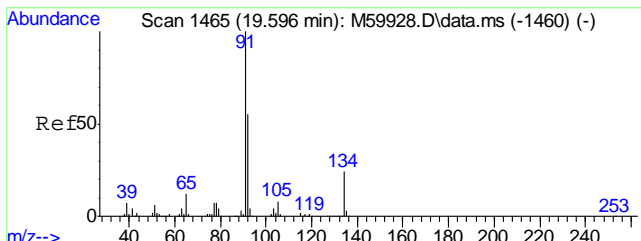
Tgt Ion	Resp	Lower	Upper
105	43547	100	
134	20.1	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 2.68 ppb
 RT: 19.150 min Scan# 1423
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

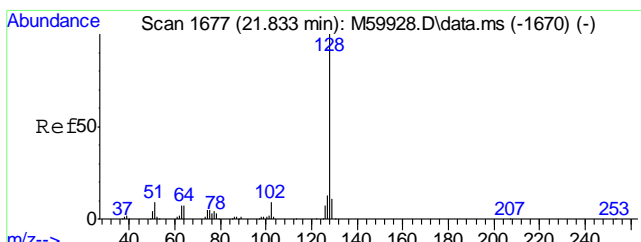
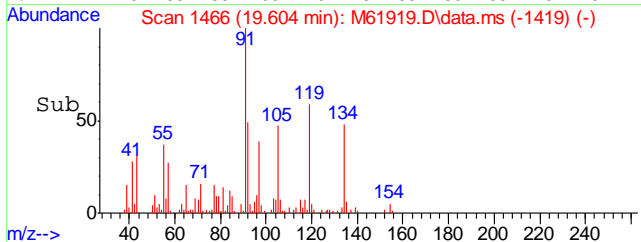
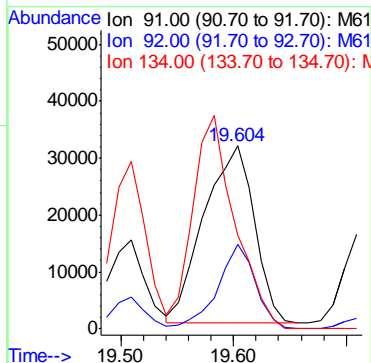
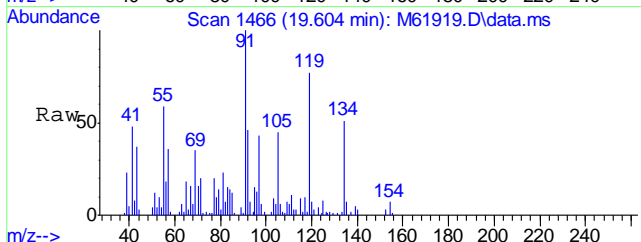
Tgt Ion	Resp	Lower	Upper
119	59146	100	
134	26.3	6.0	46.0
91	27.4	6.0	46.0





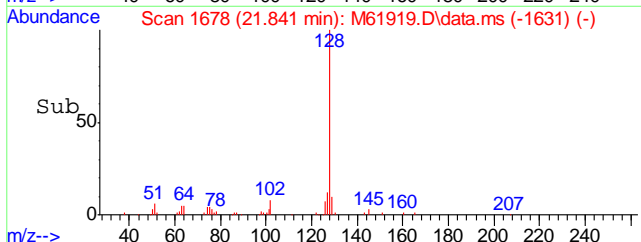
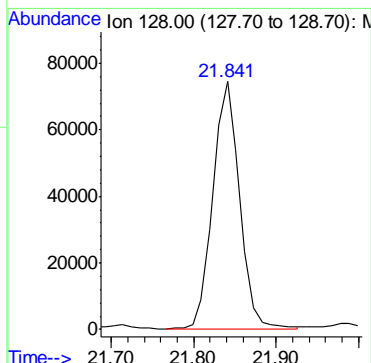
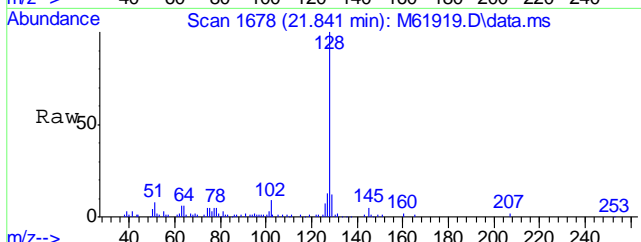
#92
 n-Butylbenzene
 Concen: 4.50 ppb
 RT: 19.604 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

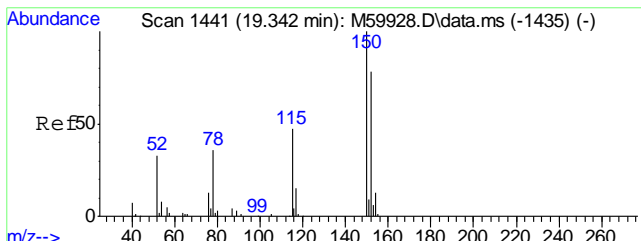
Tgt Ion	Resp	Lower	Upper
91	96220		
92	35.9	35.3	75.3
134	101.0	3.6	43.6#



#97
 Naphthalene
 Concen: 9.01 ppb
 RT: 21.841 min Scan# 1678
 Delta R.T. -0.003 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

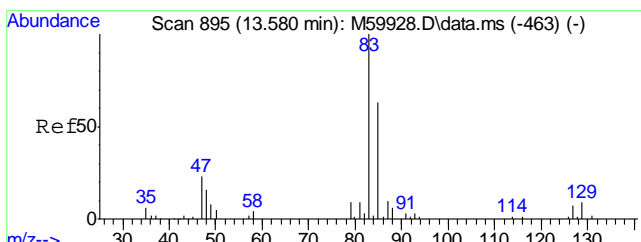
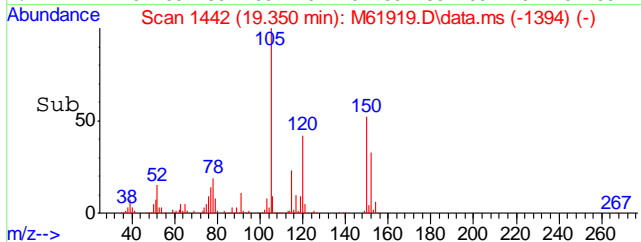
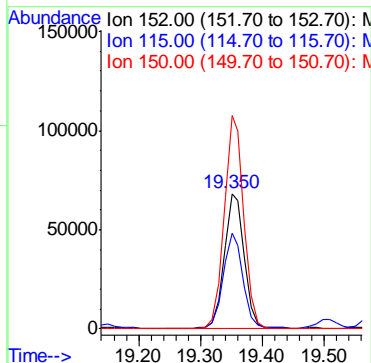
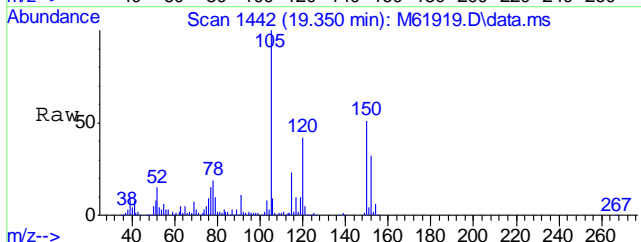
Tgt Ion	Resp
128	169399





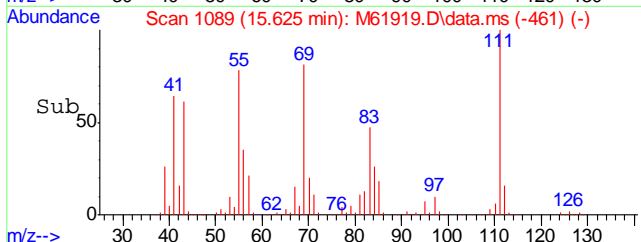
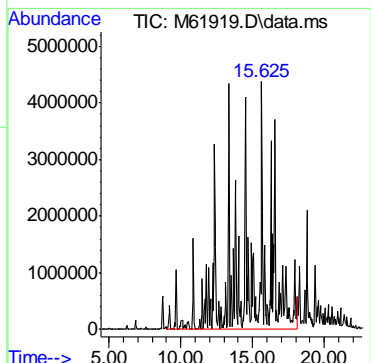
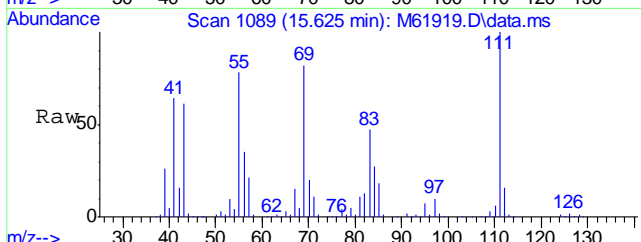
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.350 min Scan# 1442
 Delta R.T. 0.008 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	70.5	37.3	77.3
150	151.6	176.0	216.0#



#100
 TPH-GRO (C6-C10)
 Concen: 7780.40 ppb m
 RT: 15.625 min Scan# 1089
 Delta R.T. 2.075 min
 Lab File: M61919.D
 Acq: 18 Jul 2016 7:47 pm

Tgt Ion:TIC Resp:255502601



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61846.D
 Acq On : 13 Jul 2016 7:59 pm
 Operator : johannat
 Sample : C46435-16R
 Misc : MS1912,VM1859,5.67,,100,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 10:12:14 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.340	168	193231	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.670	114	283539	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	270648	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	159914	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	159914	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.456	111	83999	17.14	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	85.70%		
56) Toluene-d8	14.601	98	336248	19.04	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	95.20%		
74) 4-Bromofluorobenzene	17.862	95	149161	21.48	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	107.40%		

Target Compounds

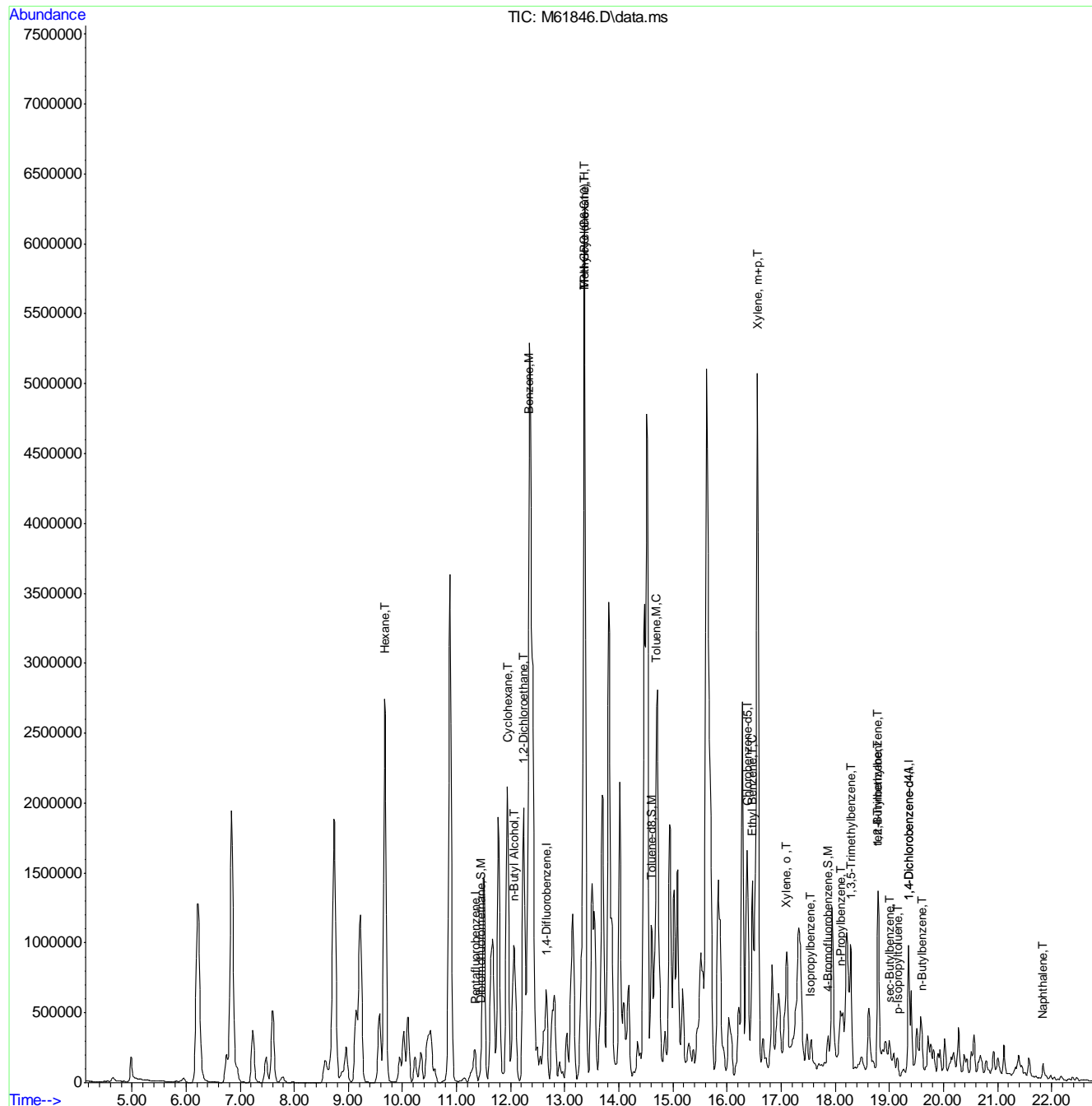
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
24) Hexane	9.673	57	2187814	215.55	ppb	99
38) Cyclohexane	11.942	56	1609152	127.66	ppb	92
42) n-Butyl Alcohol	12.058	56	635349	4626.76	ppb	96
44) 1,2-Dichloroethane	12.237	62	7276	0.76	ppb	95
45) Benzene	12.343	78	527345	21.26	ppb	100
48) Methylcyclohexane	13.366	55	3446319	330.66	ppb	94
57) Toluene	14.696	92	548583	36.80	ppb	99
67) Ethyl Benzene	16.469	91	1231166	43.86	ppb	98
68) Xylene, m+p	16.564	106	1759764	171.69	ppb	89
69) Xylene, o	17.102	106	263584	25.49	ppb	95
73) Isopropylbenzene	17.545	105	227248	8.68	ppb	99
79) n-Propylbenzene	18.094	91	347623	9.21	ppb	97
81) 1,3,5-Trimethylbenzene	18.284	105	354545	14.17	ppb	96
84) tert-Butylbenzene	18.790	119	121087	4.97	ppb	# 79
86) 1,2,4-Trimethylbenzene	18.790	105	995631	38.34	ppb	91
87) sec-Butylbenzene	19.012	105	49407	1.51	ppb	99
88) p-Isopropyltoluene	19.149	119	59692	2.23	ppb	99
92) n-Butylbenzene	19.603	91	82038	3.01	ppb	# 34
97) Naphthalene	21.840	128	107752	5.13	ppb	100
100) TPH-GRO (C6-C10)	13.366	TIC	343761788m	8568.64	ppb	

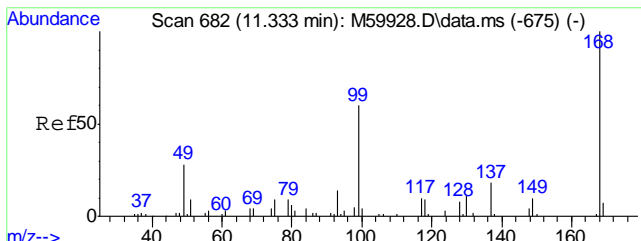
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

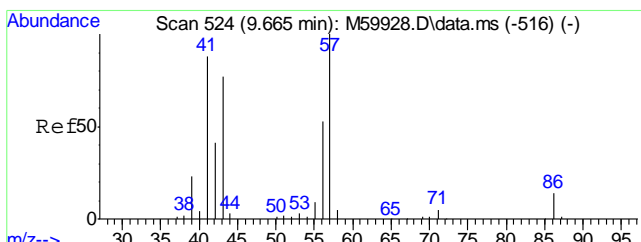
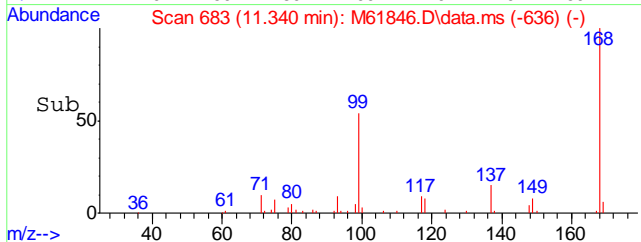
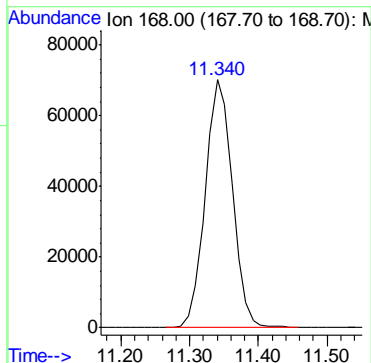
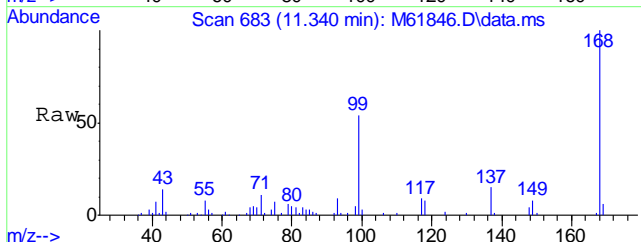
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61846.D
 Acq On : 13 Jul 2016 7:59 pm
 Operator : johannat
 Sample : C46435-16R
 Misc : MS1912,VM1859,5.67,,100,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 10:12:14 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

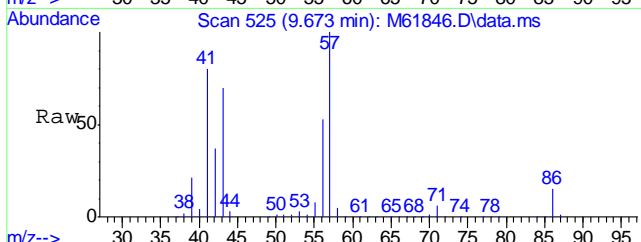




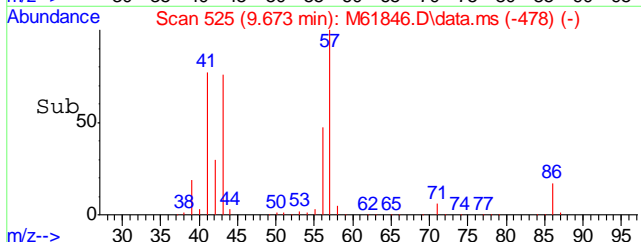
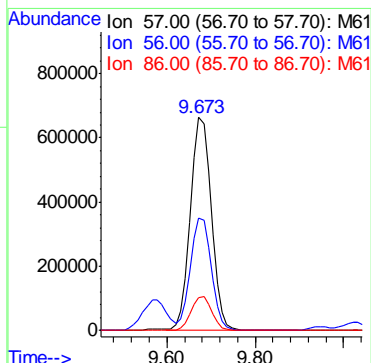
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm
 Tgt Ion:168 Resp: 193231

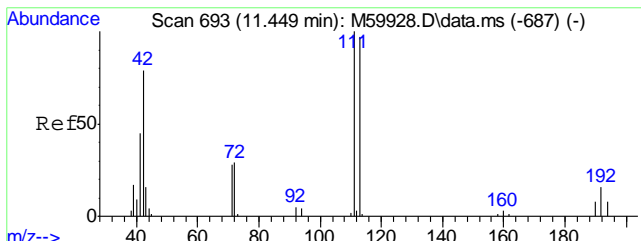


#24
 Hexane
 Concen: 215.55 ppb
 RT: 9.673 min Scan# 525
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm
 Tgt Ion: 57 Resp: 2187814



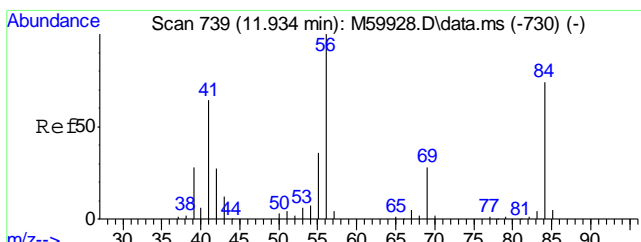
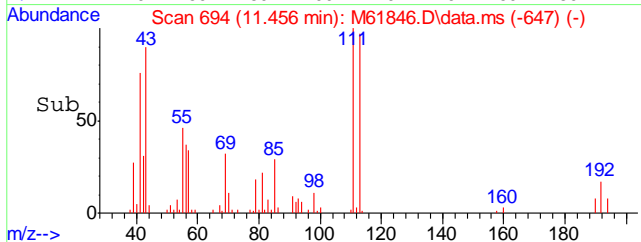
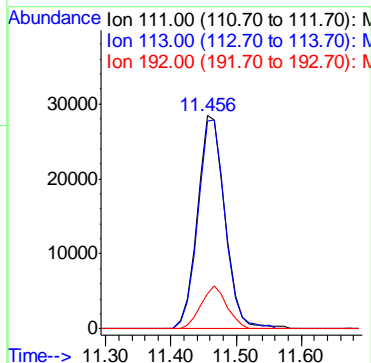
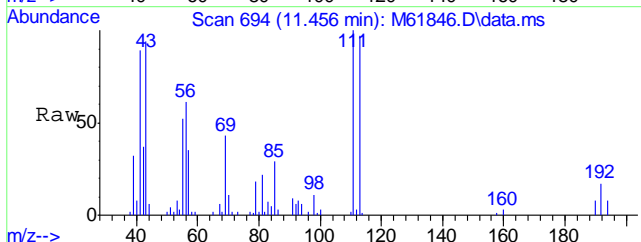
Ion	Ratio	Lower	Upper
57	100		
56	52.6	32.9	72.9
86	15.6	0.0	34.1





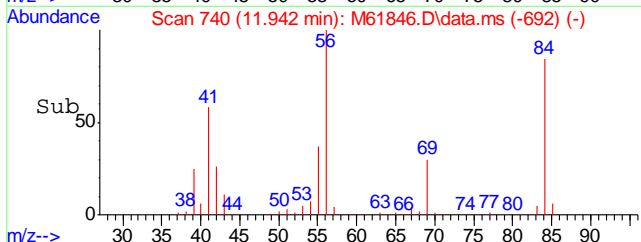
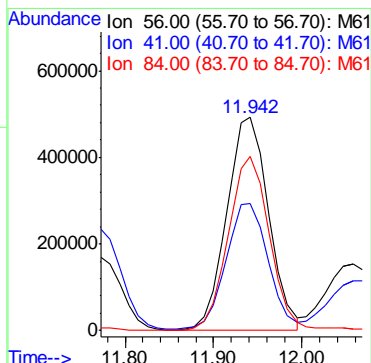
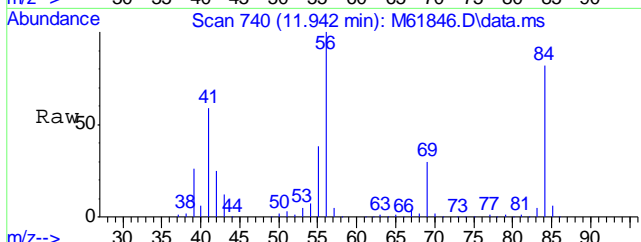
#36
 Dibromofluoromethane
 Concen: 17.14 ppb
 RT: 11.456 min Scan# 694
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

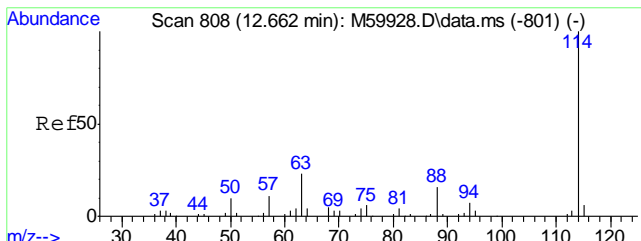
Tgt Ion	Resp	Lower	Upper
111	83999	100	
113	97.2	77.7	117.7
192	18.8	0.0	36.3



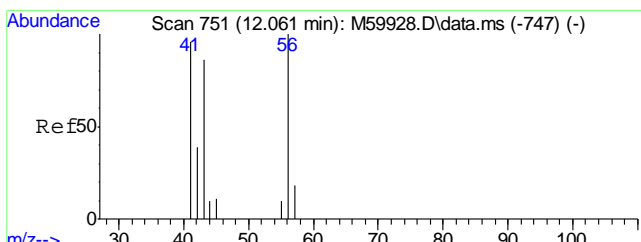
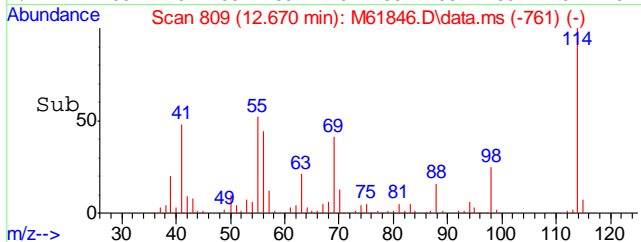
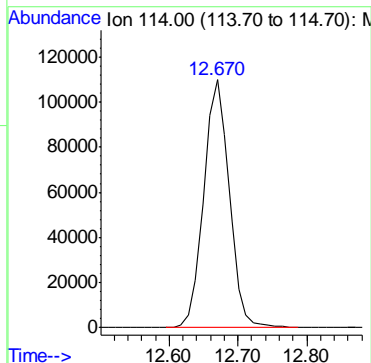
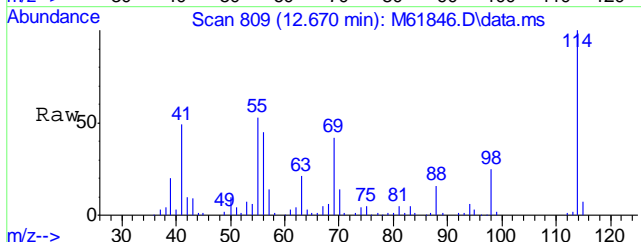
#38
 Cyclohexane
 Concen: 127.66 ppb
 RT: 11.942 min Scan# 740
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

Tgt Ion	Resp	Lower	Upper
56	1609152	100	
41	58.6	46.3	86.3
84	80.8	56.0	96.0

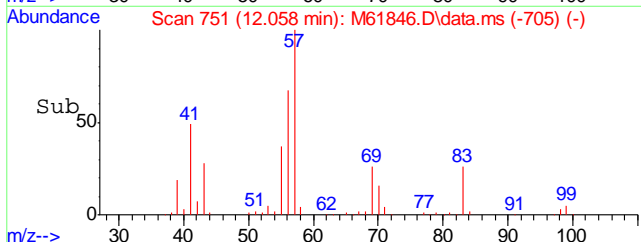
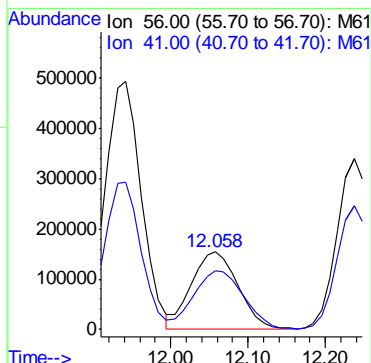
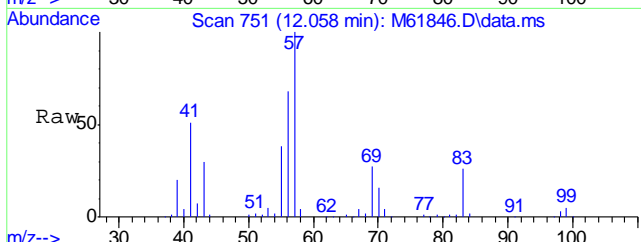


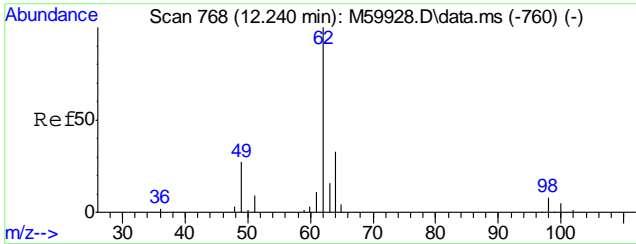


#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.670 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm
Tgt Ion:114 Resp: 283539



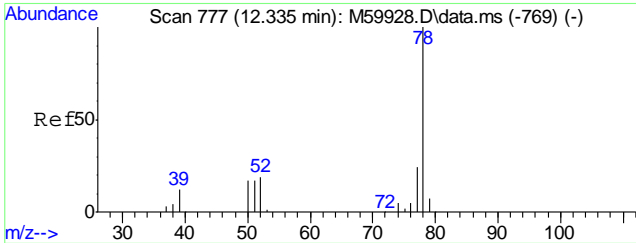
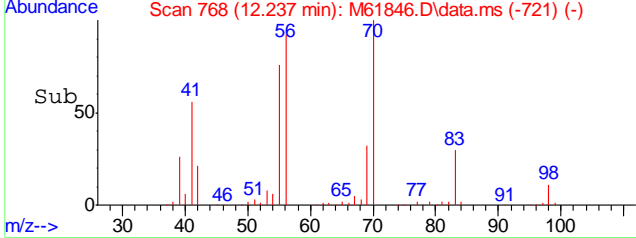
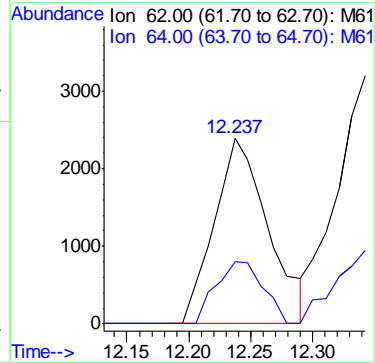
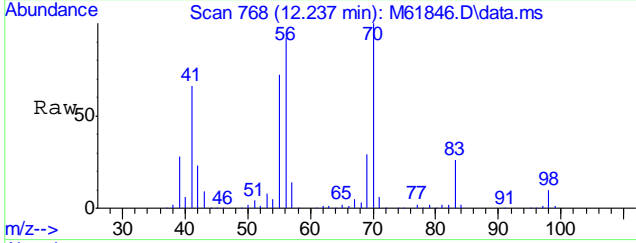
#42
n-Butyl Alcohol
Concen: 4626.76 ppb
RT: 12.058 min Scan# 751
Delta R.T. -0.014 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm
Tgt Ion: 56 Resp: 635349
Ion Ratio Lower Upper
56 100
41 80.2 63.5 103.5





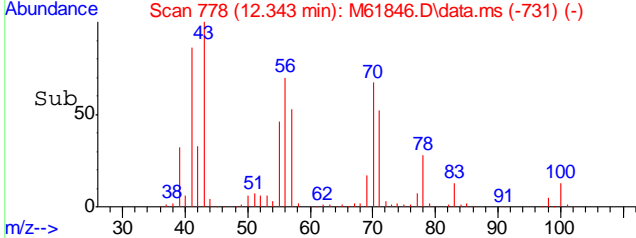
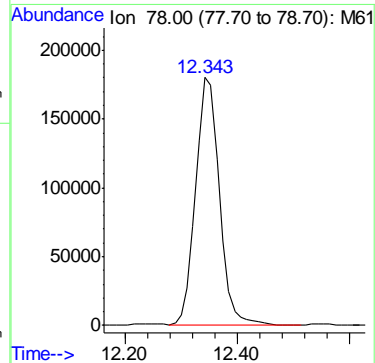
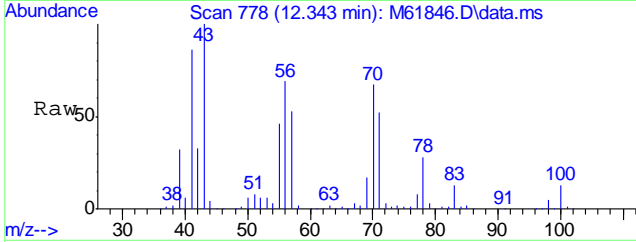
#44
1,2-Dichloroethane
Concen: 0.76 ppb
RT: 12.237 min Scan# 768
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

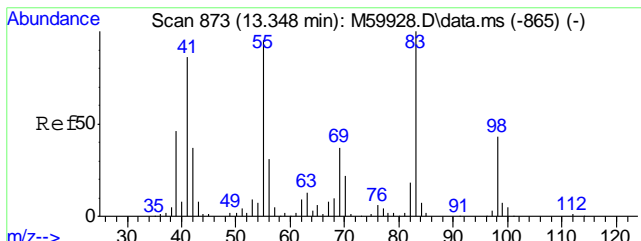
Tgt Ion: 62 Resp: 7276
Ion Ratio Lower Upper
62 100
64 29.5 12.5 52.5



#45
Benzene
Concen: 21.26 ppb
RT: 12.343 min Scan# 778
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 78 Resp: 527345

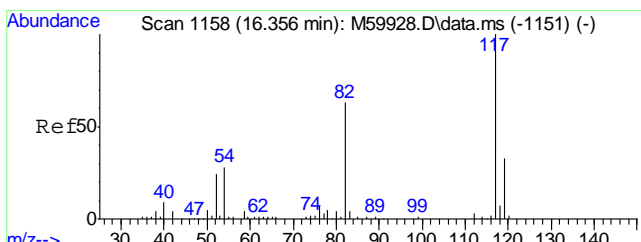
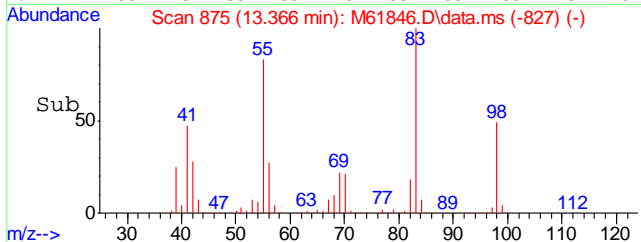
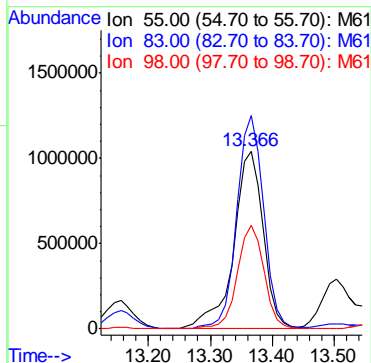
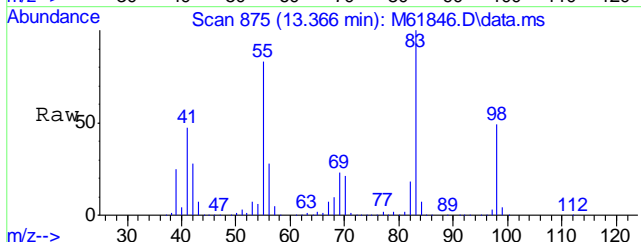




#48
Methylcyclohexane
Concen: 330.66 ppb
RT: 13.366 min Scan# 875
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 55 Resp: 3446319

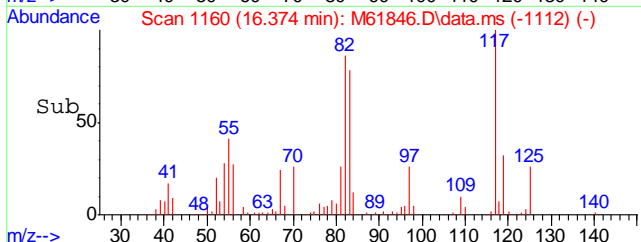
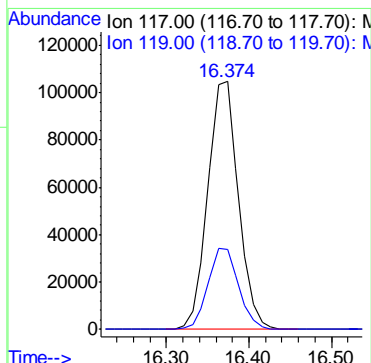
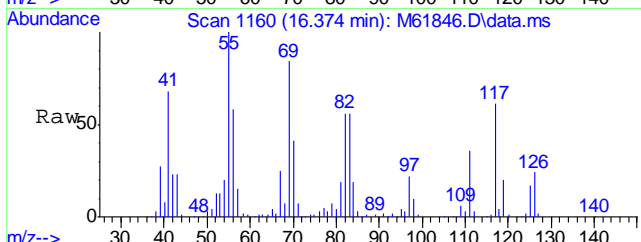
Ion	Ratio	Lower	Upper
55	100		
83	109.8	84.5	124.5
98	52.9	27.0	67.0

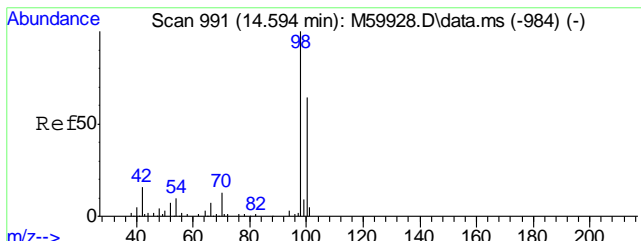


#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.374 min Scan# 1160
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 117 Resp: 270648

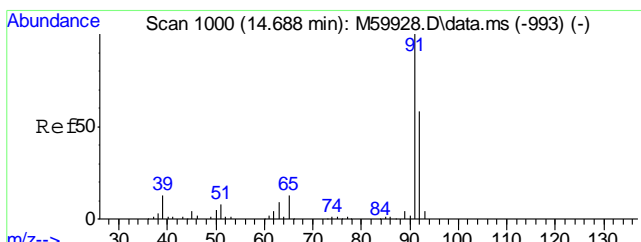
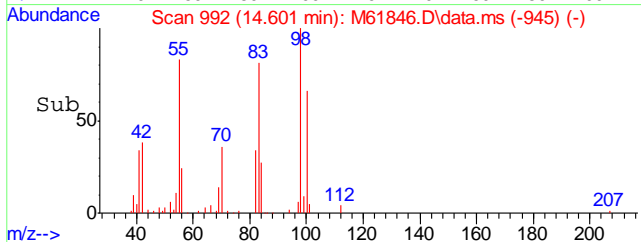
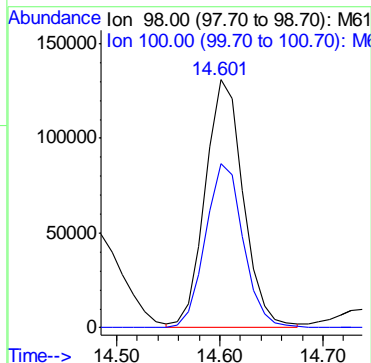
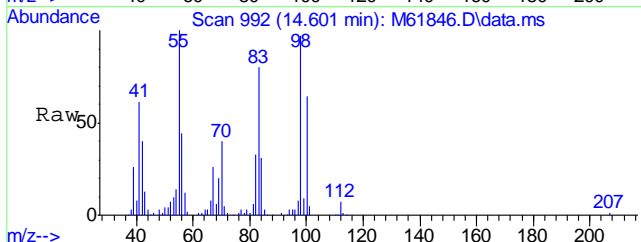
Ion	Ratio	Lower	Upper
117	100		
119	32.6	11.2	51.2





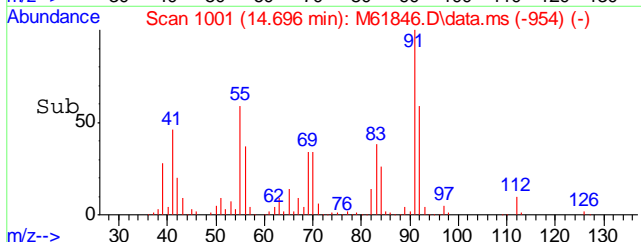
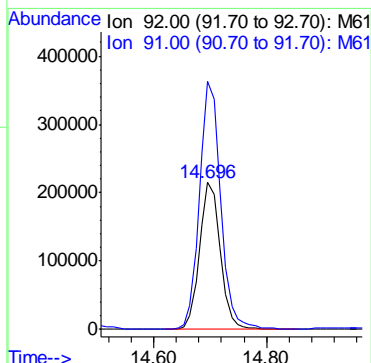
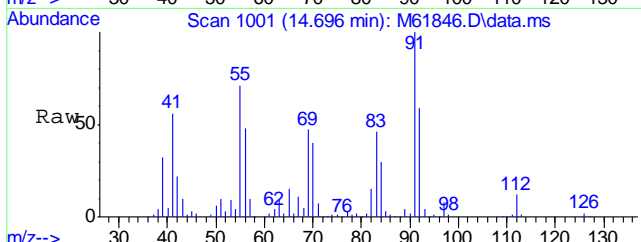
#56
Toluene-d8
Concen: 19.04 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

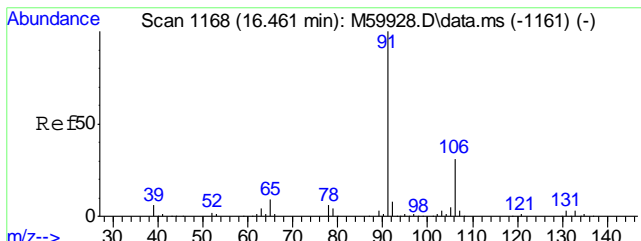
Tgt Ion: 98 Resp: 336248
Ion Ratio Lower Upper
98 100
100 65.3 44.3 84.3



#57
Toluene
Concen: 36.80 ppb
RT: 14.696 min Scan# 1001
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 92 Resp: 548583
Ion Ratio Lower Upper
92 100
91 172.3 150.5 190.5

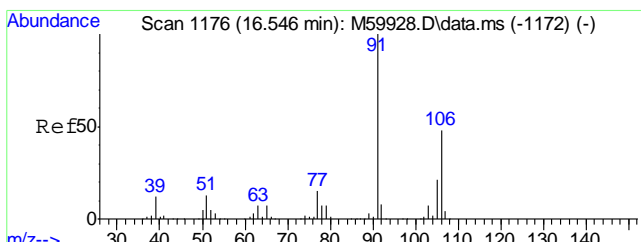
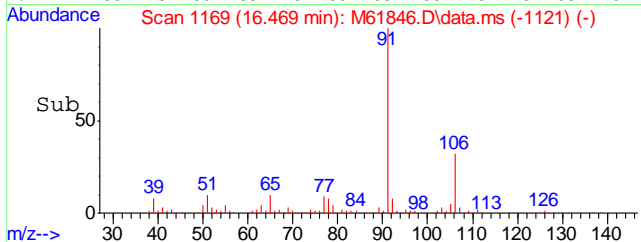
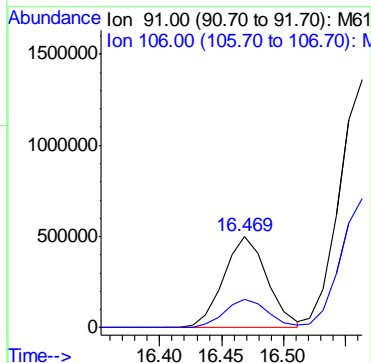
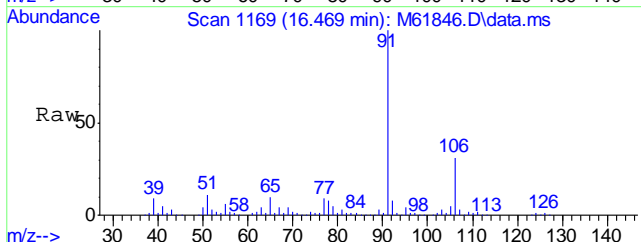




#67
Ethyl Benzene
Concen: 43.86 ppb
RT: 16.469 min Scan# 1169
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 91 Resp: 1231166

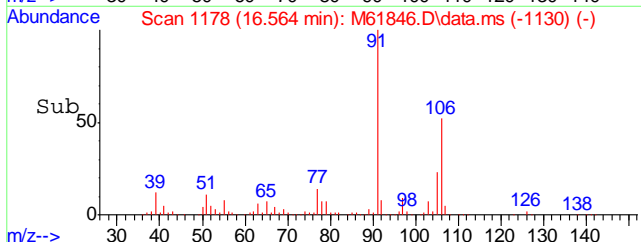
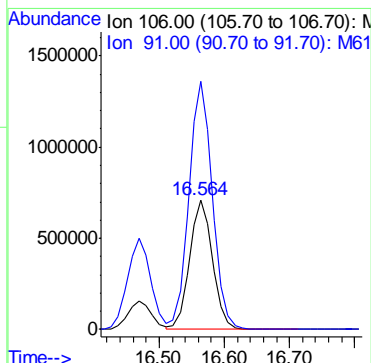
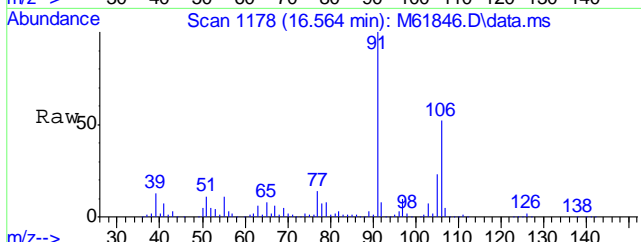
Ion	Ratio	Lower	Upper
91	100		
106	31.3	10.2	50.2

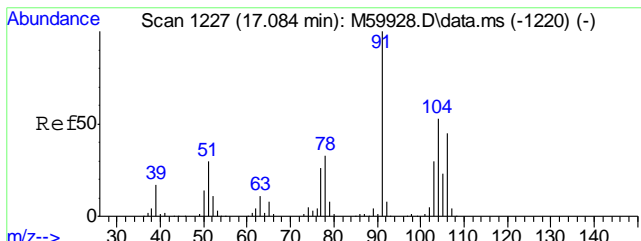


#68
Xylene, m+p
Concen: 171.69 ppb
RT: 16.564 min Scan# 1178
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 106 Resp: 1759764

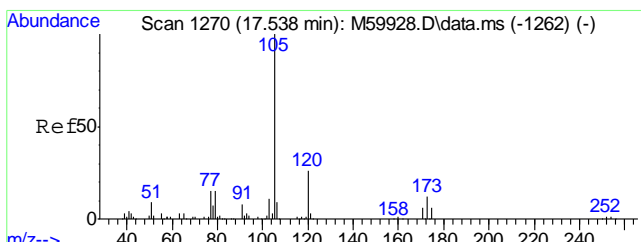
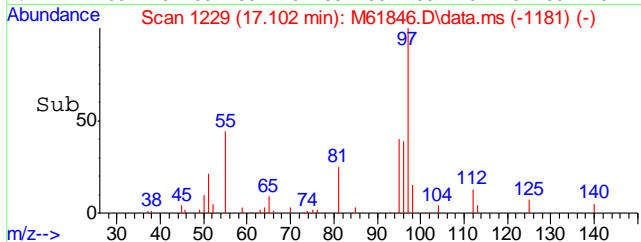
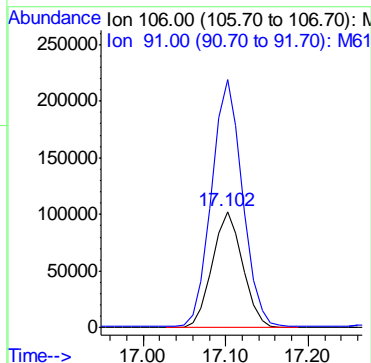
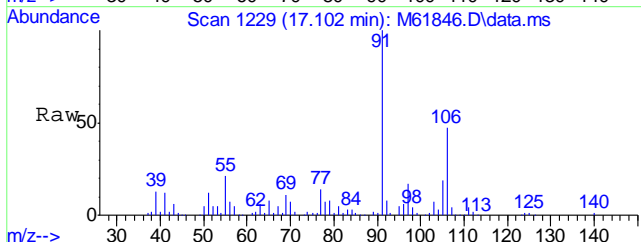
Ion	Ratio	Lower	Upper
106	100		
91	194.7	191.5	231.5





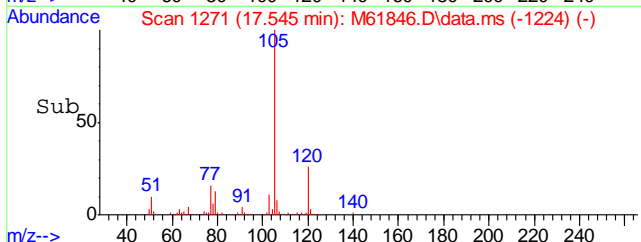
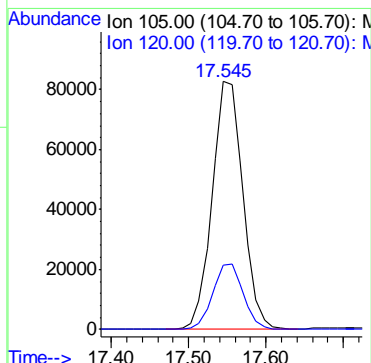
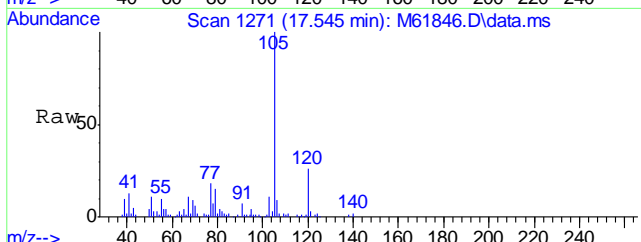
#69
Xylene, o
Concen: 25.49 ppb
RT: 17.102 min Scan# 1229
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

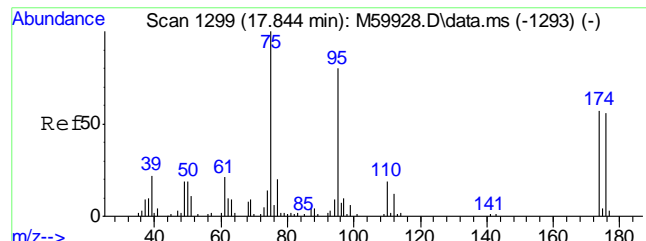
Tgt Ion	Resp	Lower	Upper
106	100		
91	215.8	203.2	243.2



#73
Isopropylbenzene
Concen: 8.68 ppb
RT: 17.545 min Scan# 1271
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

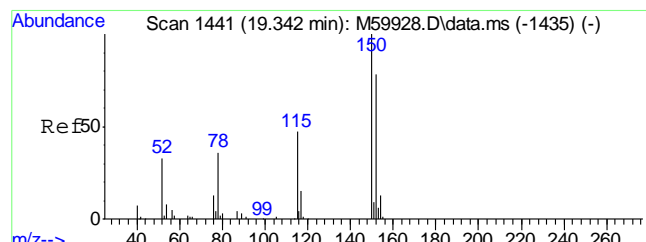
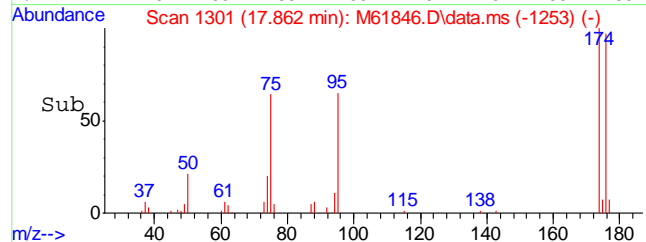
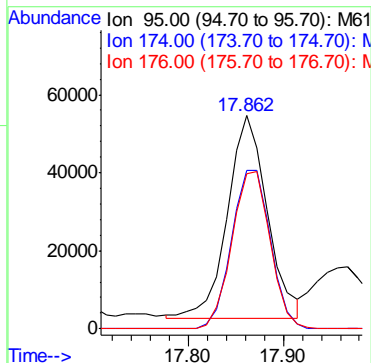
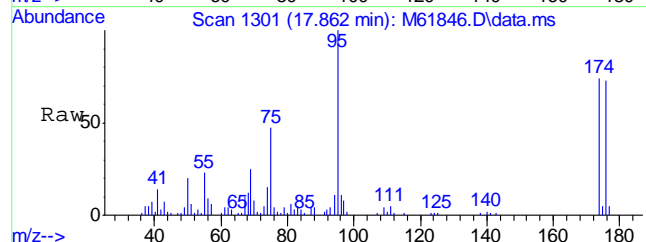
Tgt Ion	Resp	Lower	Upper
105	100		
120	26.3	5.7	45.7





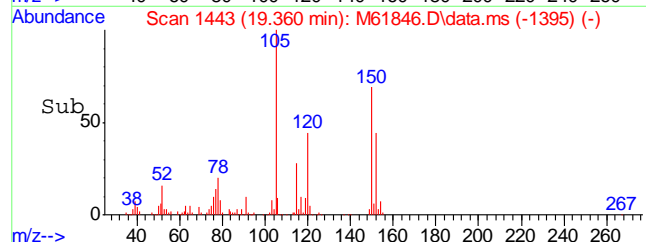
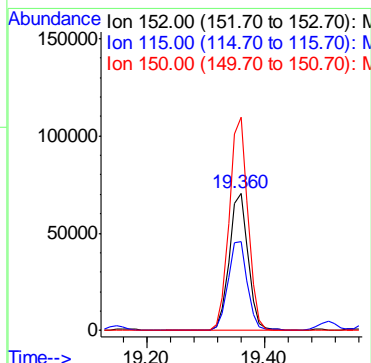
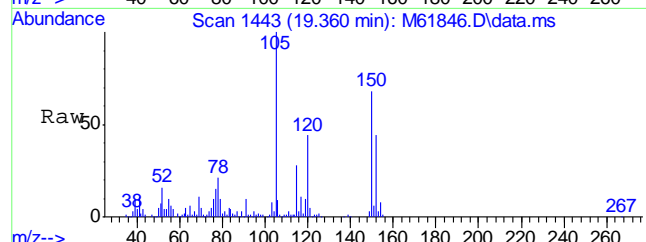
#74
4-Bromofluorobenzene
Concen: 21.48 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

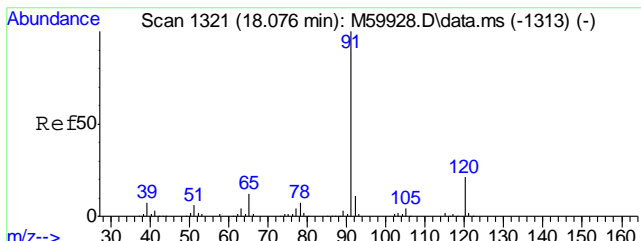
Tgt Ion	Resp	Lower	Upper
95	149161	100	
174	76.7	54.3	94.3
176	75.3	51.5	91.5



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

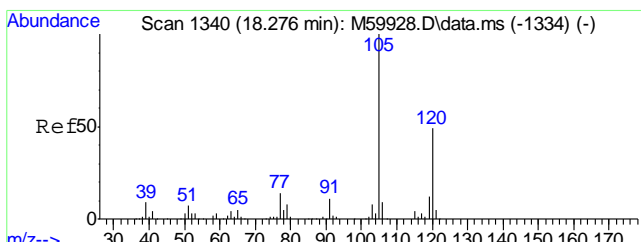
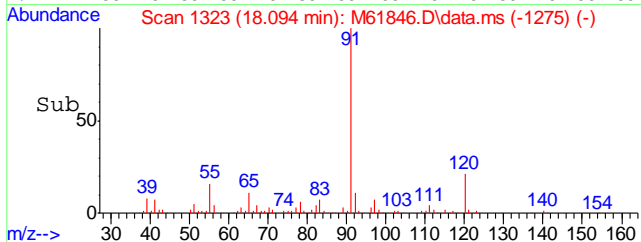
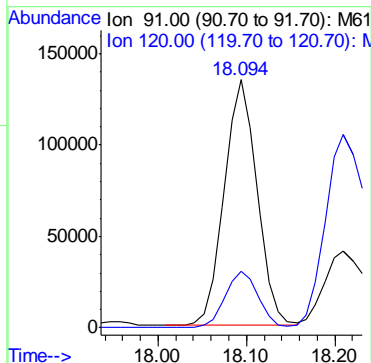
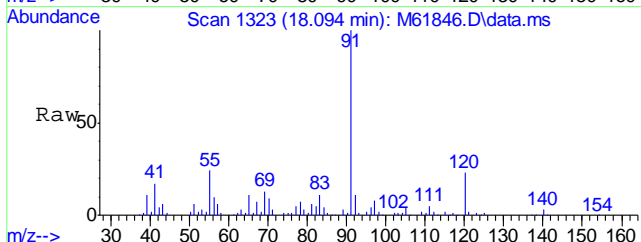
Tgt Ion	Resp	Lower	Upper
152	159914	100	
115	66.6	40.9	80.9
150	151.5	178.6	218.6#





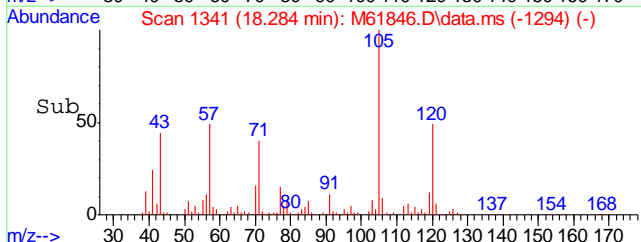
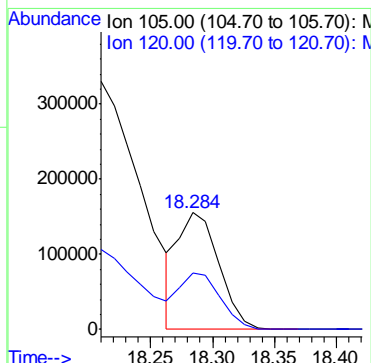
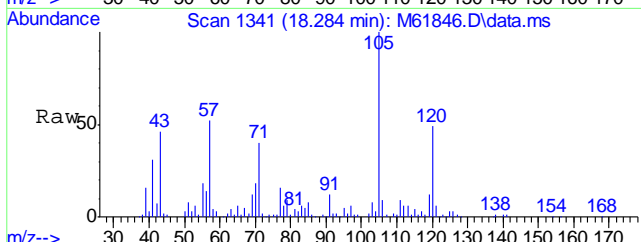
#79
 n-Propylbenzene
 Concen: 9.21 ppb
 RT: 18.094 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

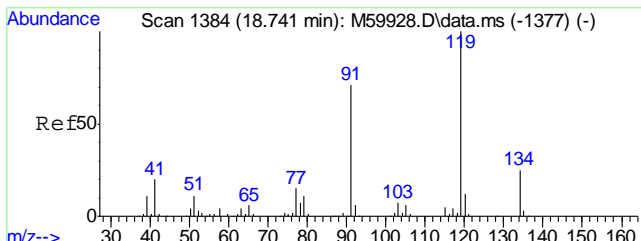
Tgt Ion	Resp	Lower	Upper
91	347623	100	
120	22.9	1.3	41.3



#81
 1,3,5-Trimethylbenzene
 Concen: 14.17 ppb
 RT: 18.284 min Scan# 1341
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

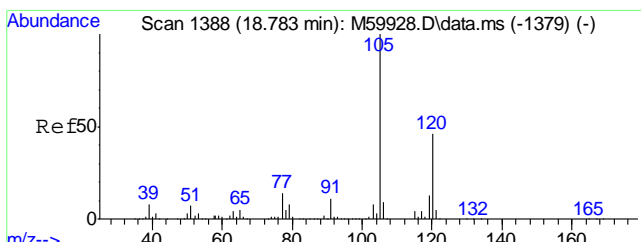
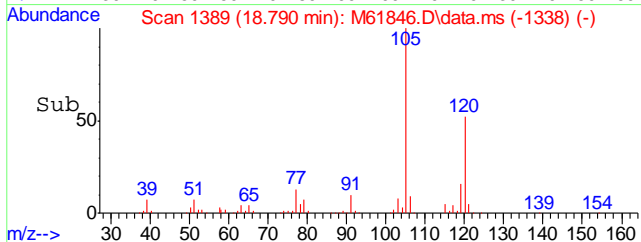
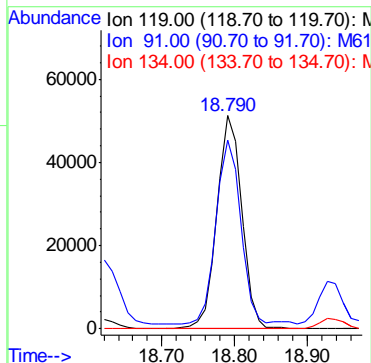
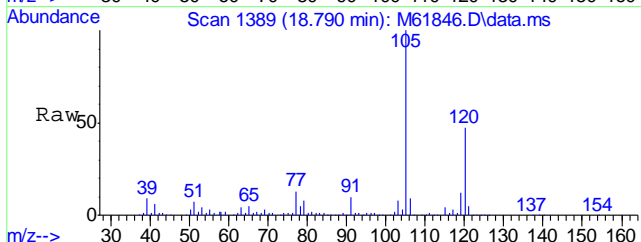
Tgt Ion	Resp	Lower	Upper
105	354545	100	
120	49.5	26.6	66.6





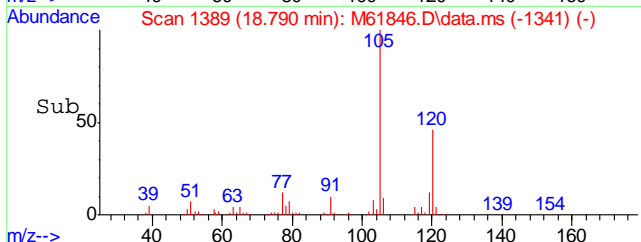
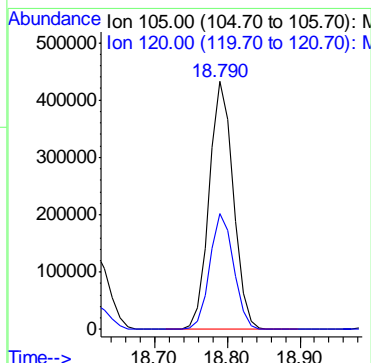
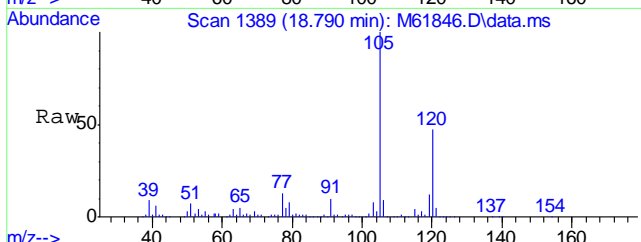
#84
tert-Butylbenzene
Concen: 4.97 ppb
RT: 18.790 min Scan# 1389
Delta R.T. 0.039 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

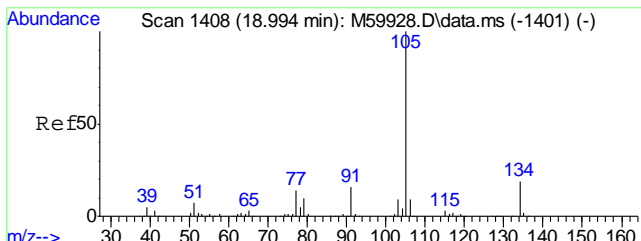
Tgt Ion	Resp	Lower	Upper
119	121087		
91	86.6	54.6	94.6
134	0.0	0.4	40.4#



#86
1,2,4-Trimethylbenzene
Concen: 38.34 ppb
RT: 18.790 min Scan# 1389
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

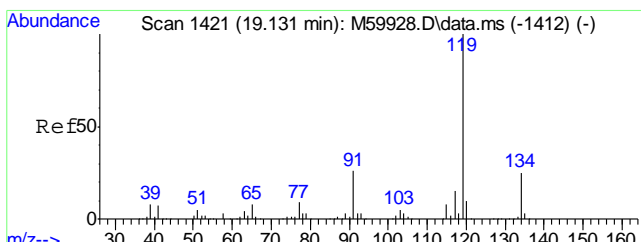
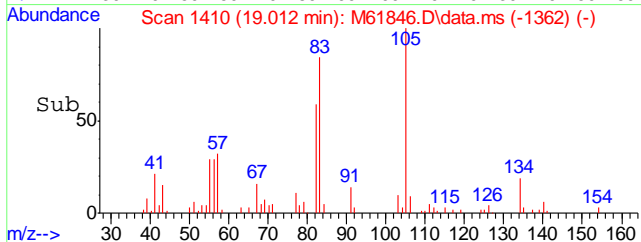
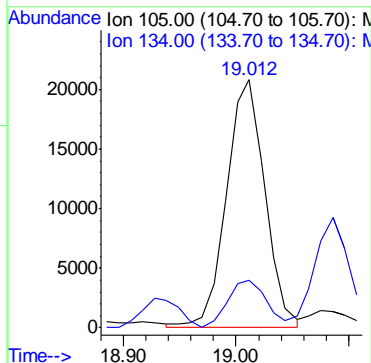
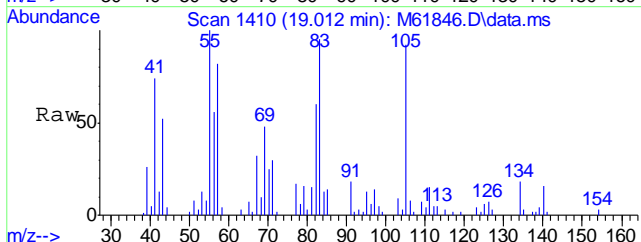
Tgt Ion	Resp	Lower	Upper
105	995631		
120	46.3	32.4	72.4





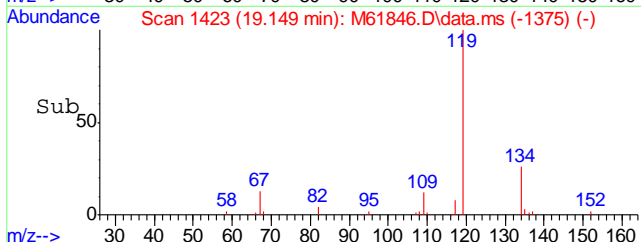
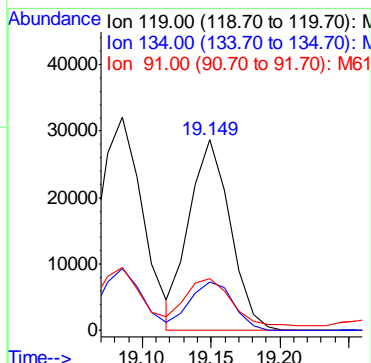
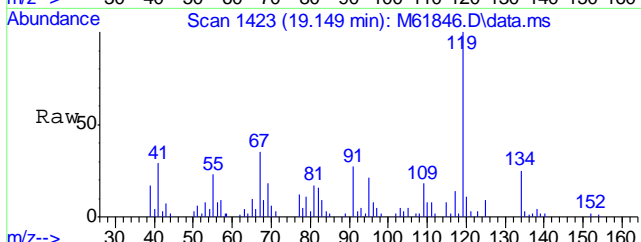
#87
 sec-Butylbenzene
 Concen: 1.51 ppb
 RT: 19.012 min Scan# 1410
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

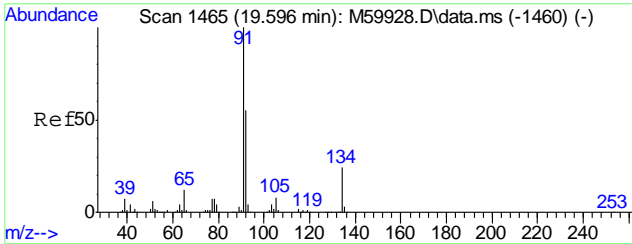
Tgt Ion	Resp	Lower	Upper
105	49407	100	
134	19.3	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 2.23 ppb
 RT: 19.149 min Scan# 1423
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

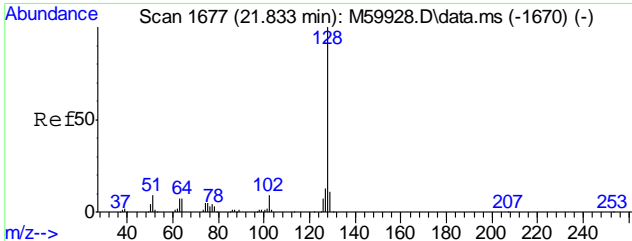
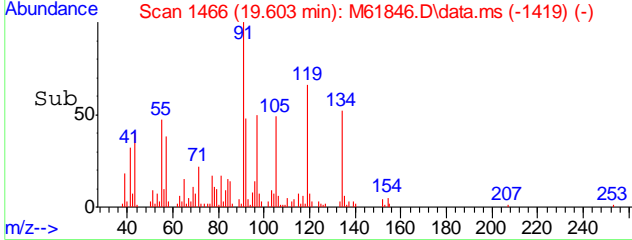
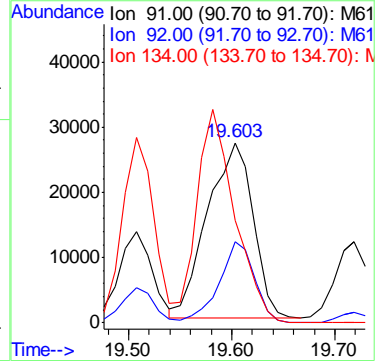
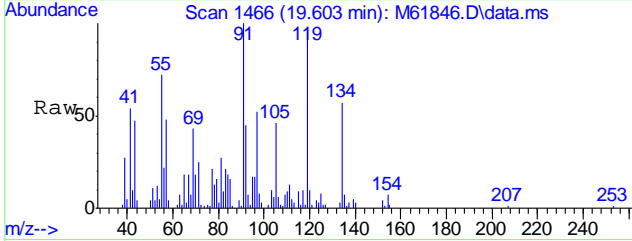
Tgt Ion	Resp	Lower	Upper
119	59692	100	
134	26.8	6.0	46.0
91	26.5	6.0	46.0





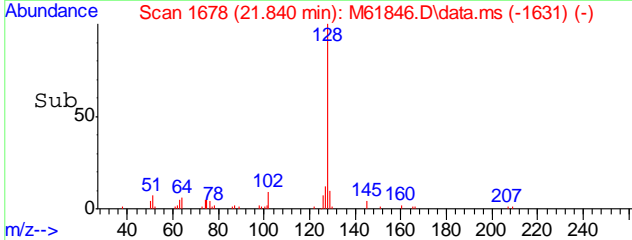
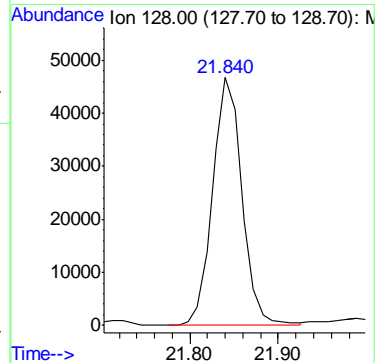
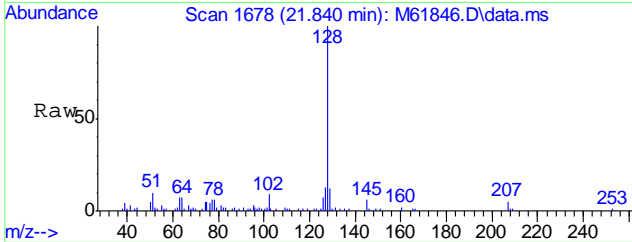
#92
 n-Butylbenzene
 Concen: 3.01 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

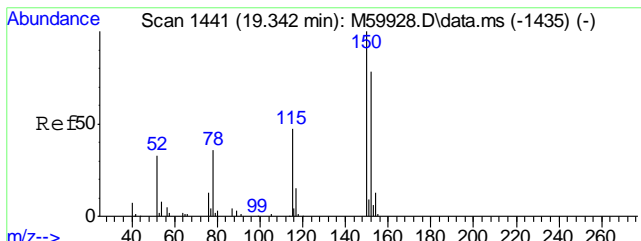
Tgt Ion	Resp	Lower	Upper
91	82038		
92	36.2	35.3	75.3
134	102.0	3.6	43.6#



#97
 Naphthalene
 Concen: 5.13 ppb
 RT: 21.840 min Scan# 1678
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

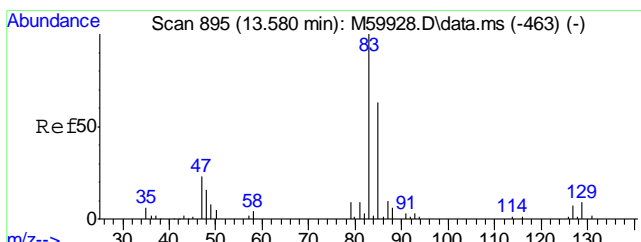
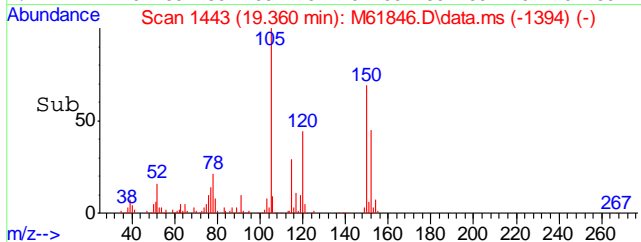
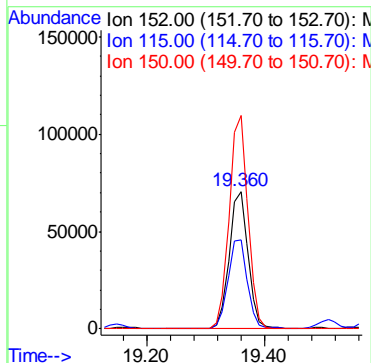
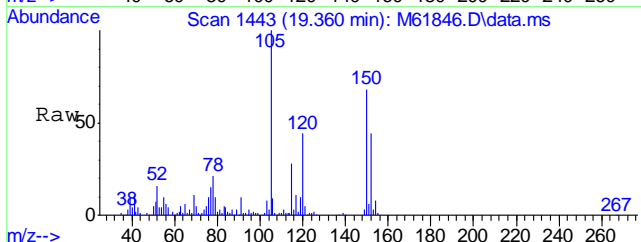
Tgt Ion: 128 Resp: 107752





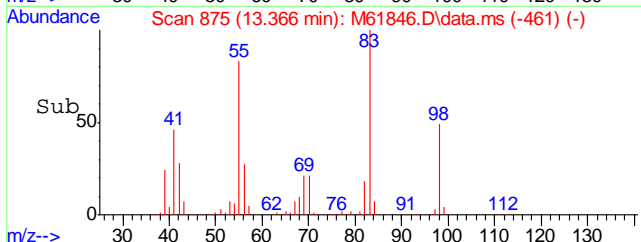
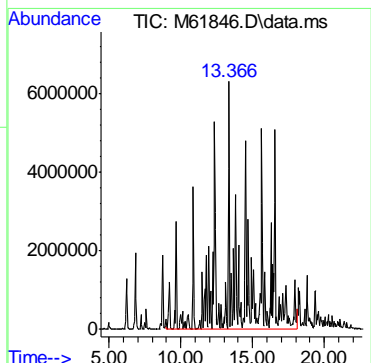
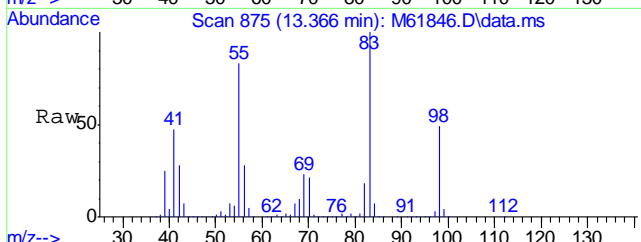
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	66.6	37.3	77.3
150	151.5	176.0	216.0#



#100
 TPH-GRO (C6-C10)
 Concen: 8568.64 ppb m
 RT: 13.366 min Scan# 875
 Delta R.T. -0.184 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

Tgt Ion:TIC Resp:343761788



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61846.D
 Acq On : 13 Jul 2016 7:59 pm
 Operator : johannat
 Sample : C46435-16R
 Misc : MS1912,VM1859,5.67,,100,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 10:12:14 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.340	168	193231	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.670	114	283539	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	270648	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	159914	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	159914	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.456	111	83999	17.14	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	85.70%		
56) Toluene-d8	14.601	98	336248	19.04	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	95.20%		
74) 4-Bromofluorobenzene	17.862	95	149161	21.48	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	107.40%		

Target Compounds

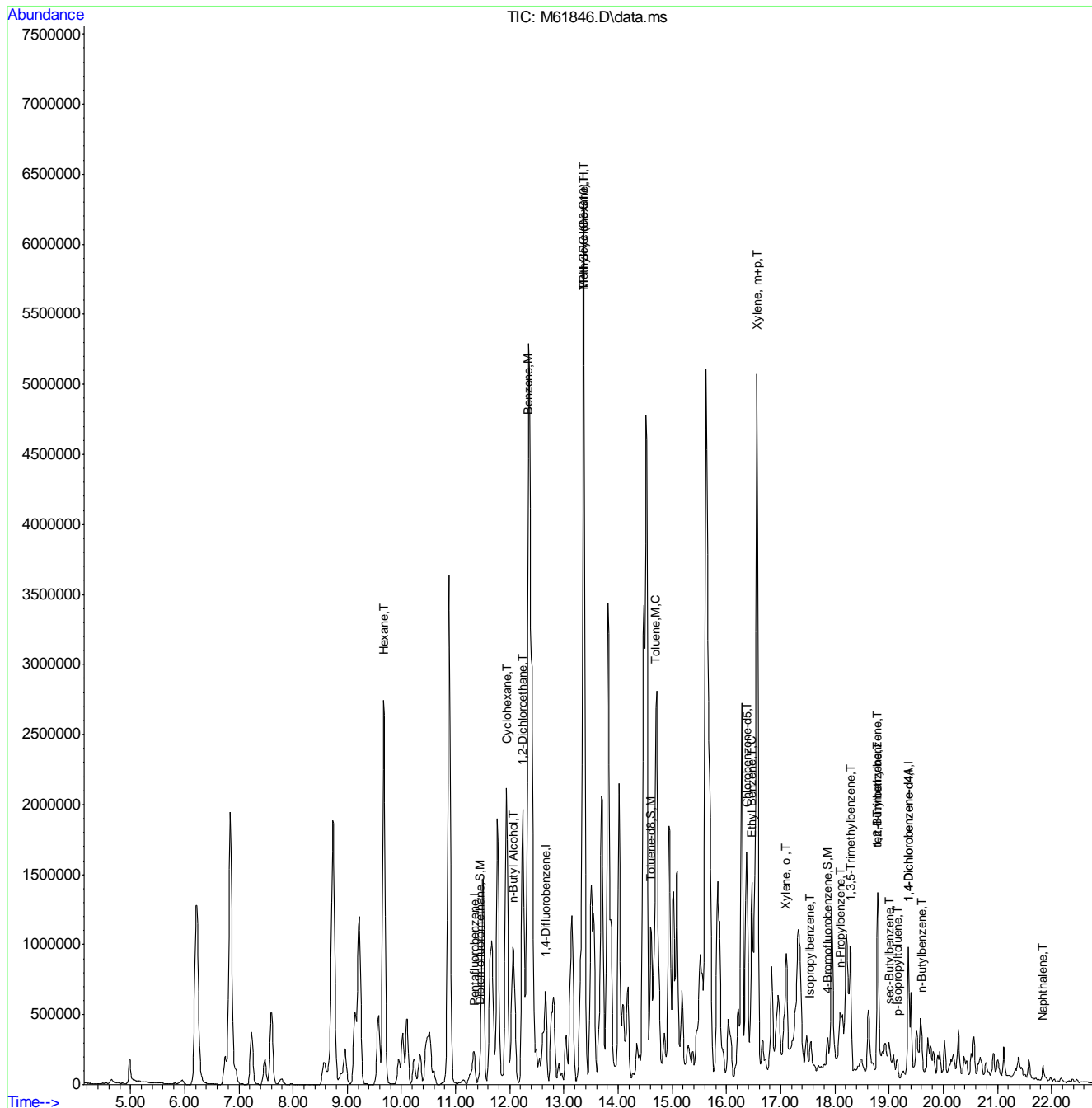
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
24) Hexane	9.673	57	2187814	215.55	ppb	99
38) Cyclohexane	11.942	56	1609152	127.66	ppb	92
42) n-Butyl Alcohol	12.058	56	635349	4626.76	ppb	96
44) 1,2-Dichloroethane	12.237	62	7276	0.76	ppb	95
45) Benzene	12.343	78	527345	21.26	ppb	100
48) Methylcyclohexane	13.366	55	3446319	330.66	ppb	94
57) Toluene	14.696	92	548583	36.80	ppb	99
67) Ethyl Benzene	16.469	91	1231166	43.86	ppb	98
68) Xylene, m+p	16.564	106	1759764	171.69	ppb	89
69) Xylene, o	17.102	106	263584	25.49	ppb	95
73) Isopropylbenzene	17.545	105	227248	8.68	ppb	99
79) n-Propylbenzene	18.094	91	347623	9.21	ppb	97
81) 1,3,5-Trimethylbenzene	18.284	105	354545	14.17	ppb	96
84) tert-Butylbenzene	18.790	119	121087	4.97	ppb	# 79
86) 1,2,4-Trimethylbenzene	18.790	105	995631	38.34	ppb	91
87) sec-Butylbenzene	19.012	105	49407	1.51	ppb	99
88) p-Isopropyltoluene	19.149	119	59692	2.23	ppb	99
92) n-Butylbenzene	19.603	91	82038	3.01	ppb	# 34
97) Naphthalene	21.840	128	107752	5.13	ppb	100
100) TPH-GRO (C6-C10)	13.366	TIC	343761788m	8568.64	ppb	

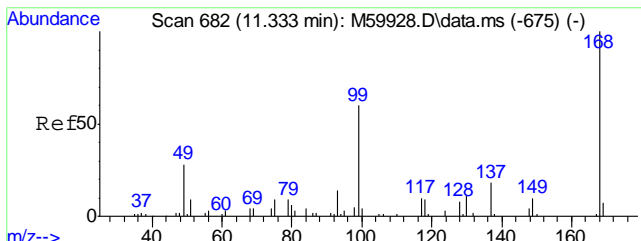
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

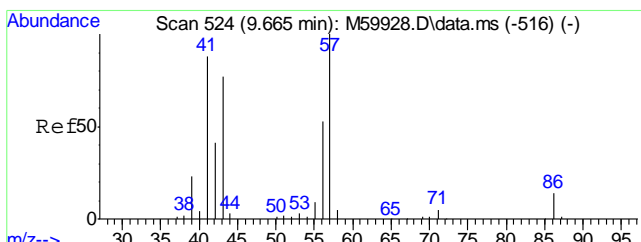
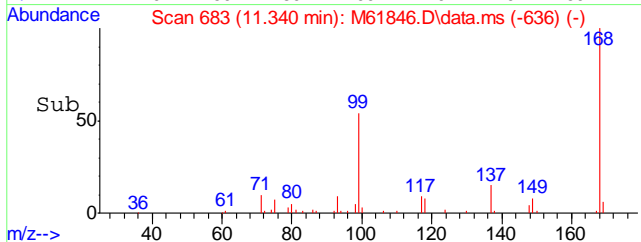
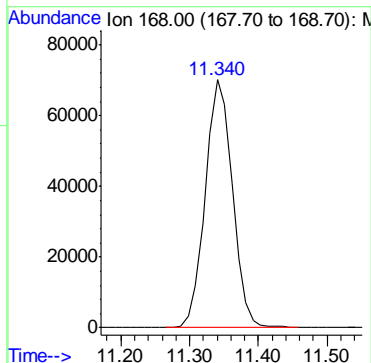
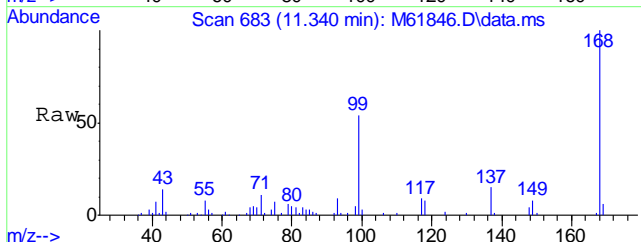
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61846.D
 Acq On : 13 Jul 2016 7:59 pm
 Operator : johannat
 Sample : C46435-16R
 Misc : MS1912,VM1859,5.67,,100,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 10:12:14 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

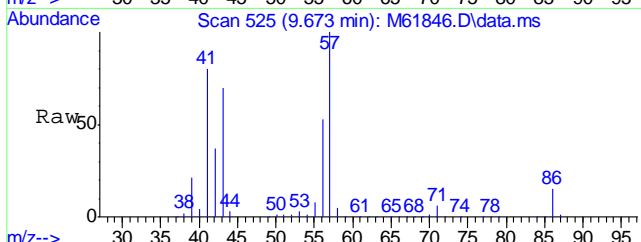




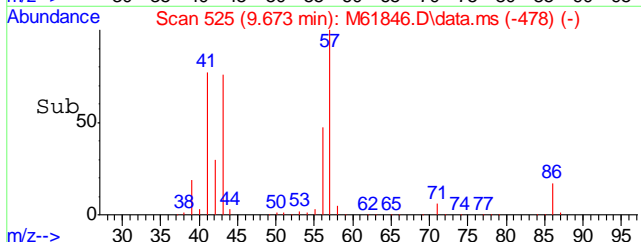
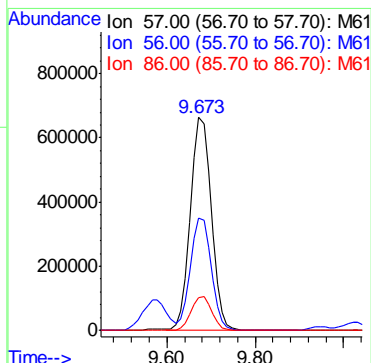
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm
 Tgt Ion:168 Resp: 193231

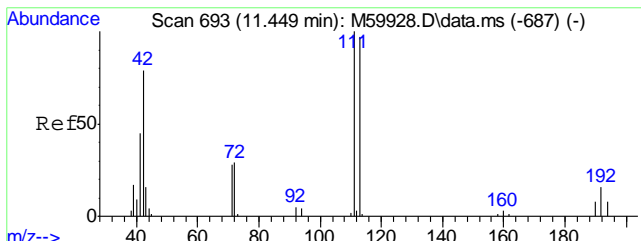


#24
 Hexane
 Concen: 215.55 ppb
 RT: 9.673 min Scan# 525
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm
 Tgt Ion: 57 Resp: 2187814



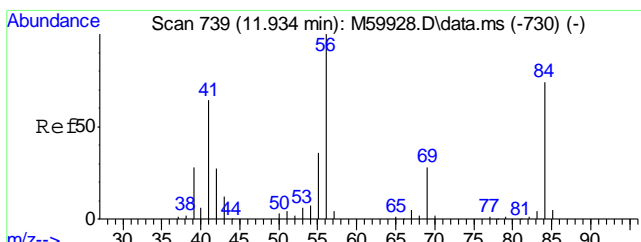
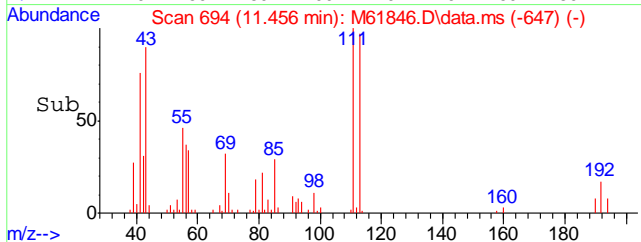
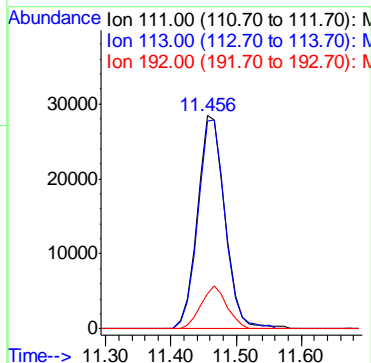
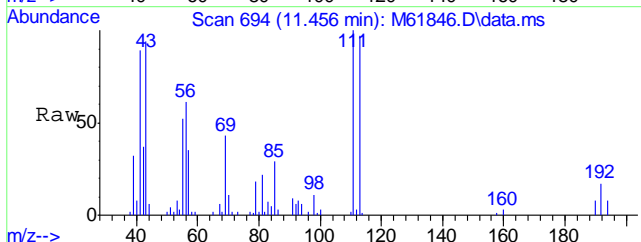
Ion	Ratio	Lower	Upper
57	100		
56	52.6	32.9	72.9
86	15.6	0.0	34.1





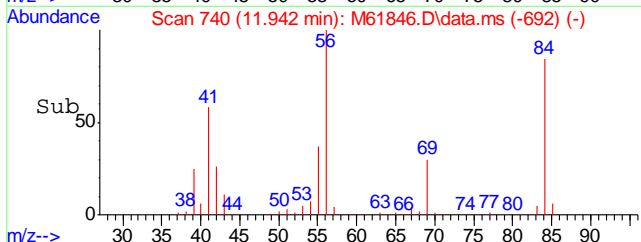
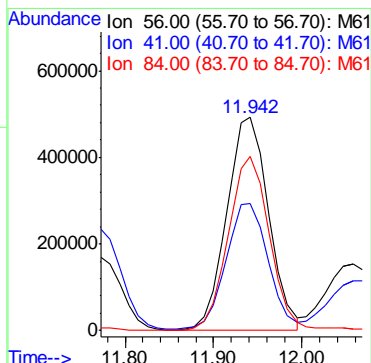
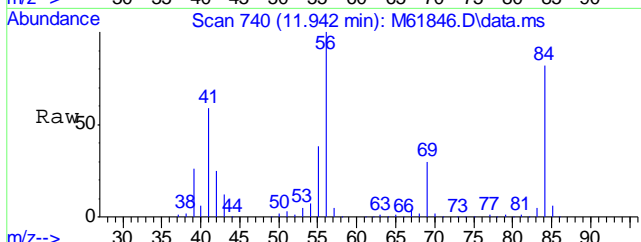
#36
Dibromofluoromethane
Concen: 17.14 ppb
RT: 11.456 min Scan# 694
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

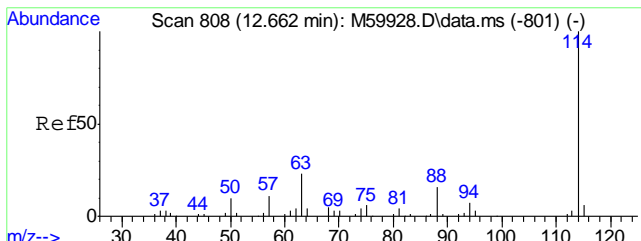
Tgt Ion	Resp	Lower	Upper
111	83999	100	
113	97.2	77.7	117.7
192	18.8	0.0	36.3



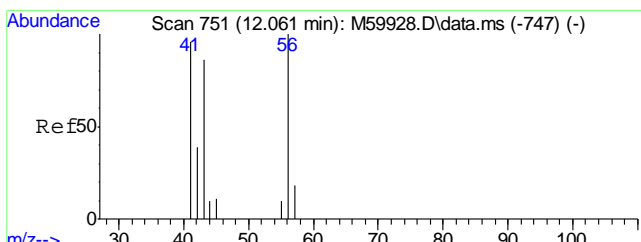
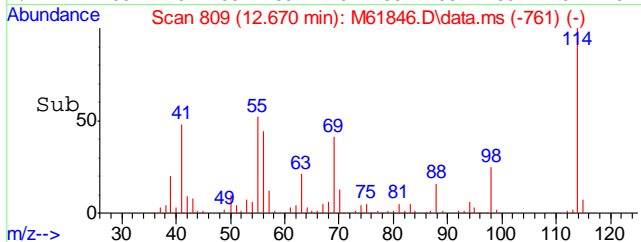
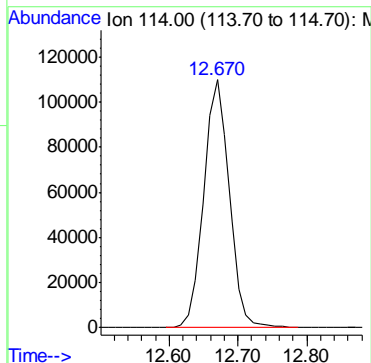
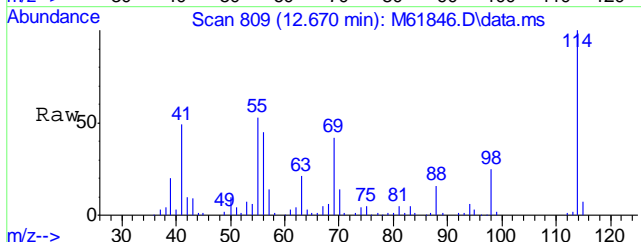
#38
Cyclohexane
Concen: 127.66 ppb
RT: 11.942 min Scan# 740
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion	Resp	Lower	Upper
56	1609152	100	
41	58.6	46.3	86.3
84	80.8	56.0	96.0

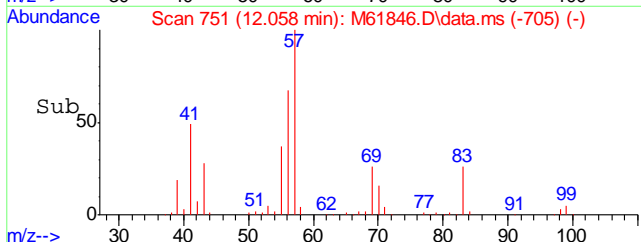
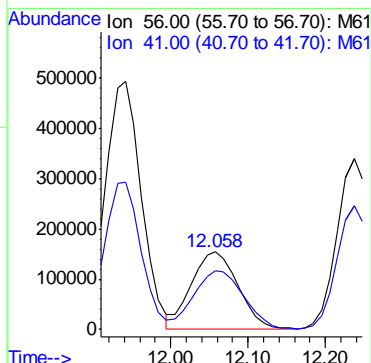
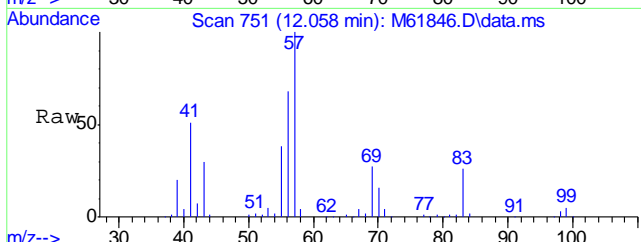


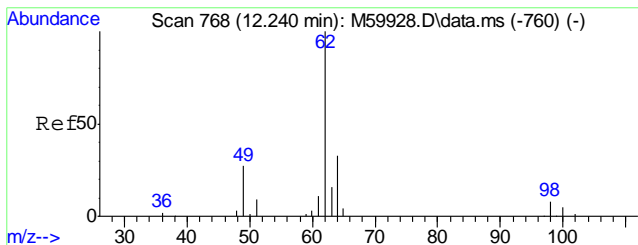


#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.670 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm
Tgt Ion:114 Resp: 283539



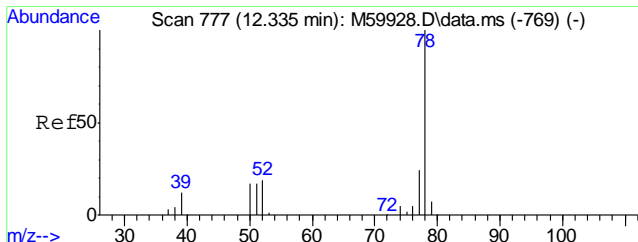
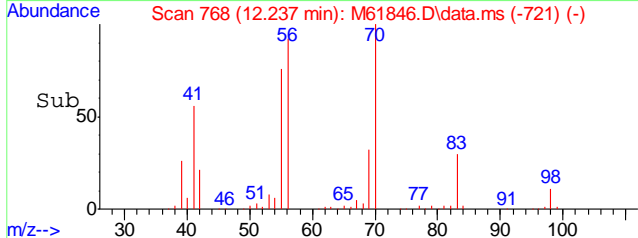
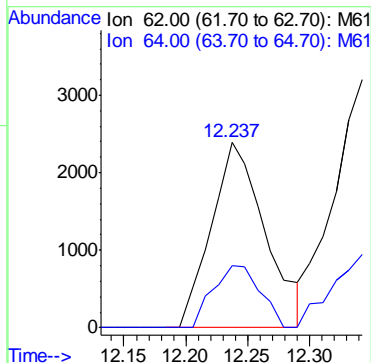
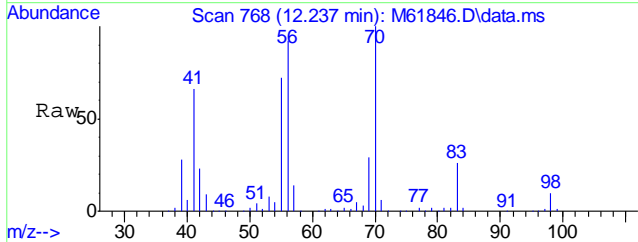
#42
n-Butyl Alcohol
Concen: 4626.76 ppb
RT: 12.058 min Scan# 751
Delta R.T. -0.014 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm
Tgt Ion: 56 Resp: 635349
Ion Ratio Lower Upper
56 100
41 80.2 63.5 103.5





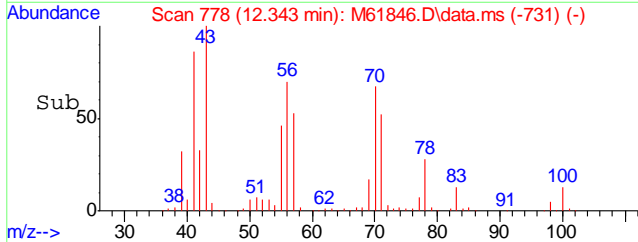
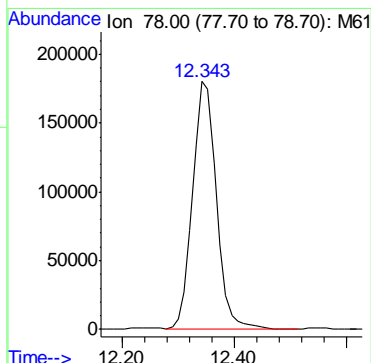
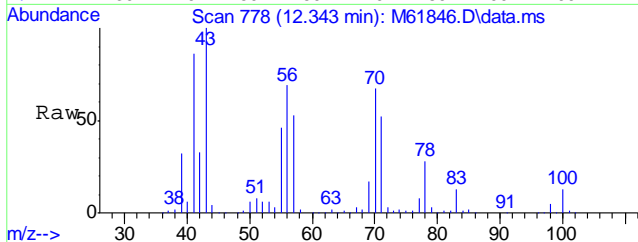
#44
1,2-Dichloroethane
Concen: 0.76 ppb
RT: 12.237 min Scan# 768
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

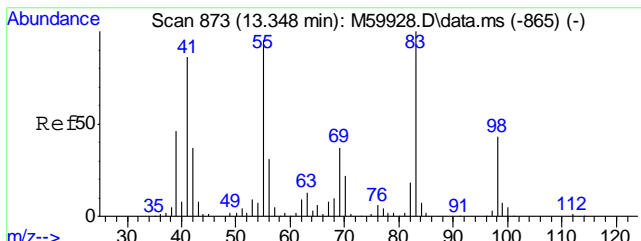
Tgt Ion: 62 Resp: 7276
Ion Ratio Lower Upper
62 100
64 29.5 12.5 52.5



#45
Benzene
Concen: 21.26 ppb
RT: 12.343 min Scan# 778
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 78 Resp: 527345

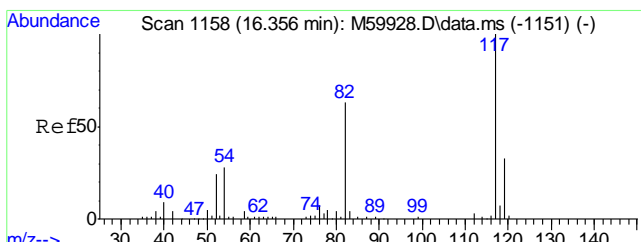
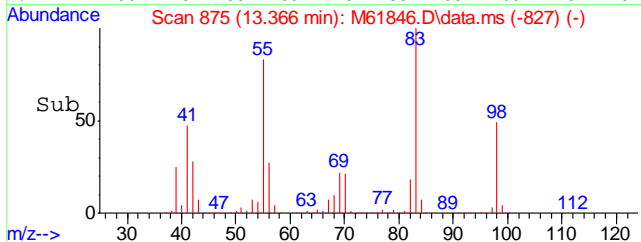
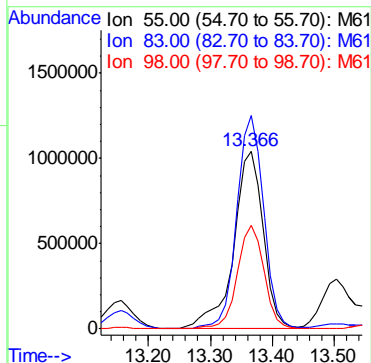
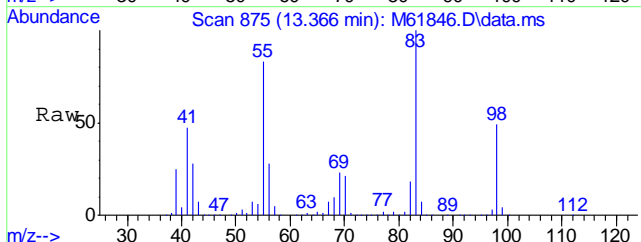




#48
 Methylcyclohexane
 Concen: 330.66 ppb
 RT: 13.366 min Scan# 875
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 55 Resp: 3446319

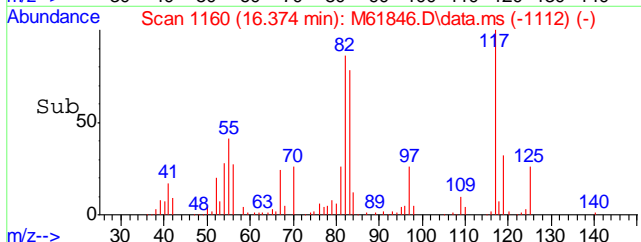
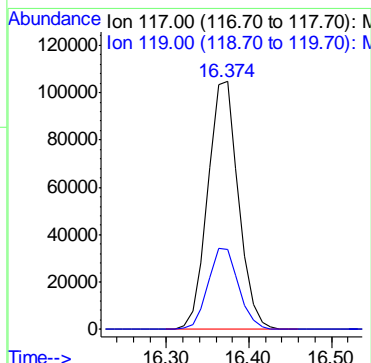
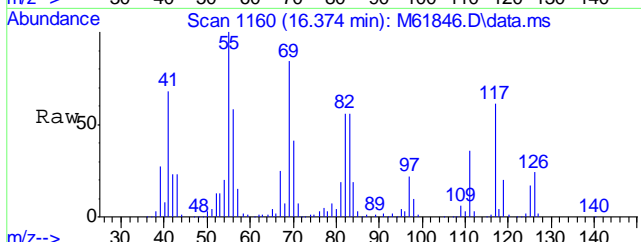
Ion	Ratio	Lower	Upper
55	100		
83	109.8	84.5	124.5
98	52.9	27.0	67.0

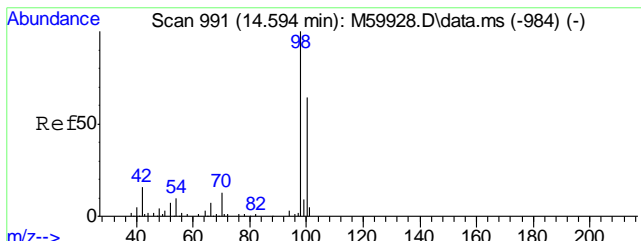


#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.374 min Scan# 1160
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 117 Resp: 270648

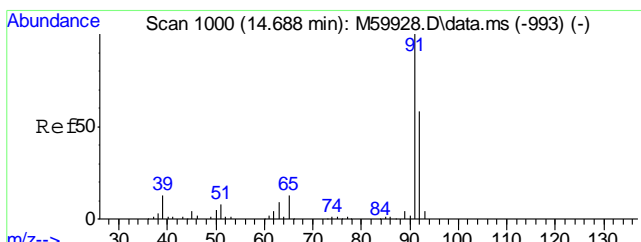
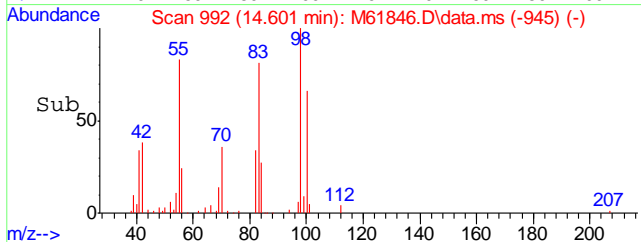
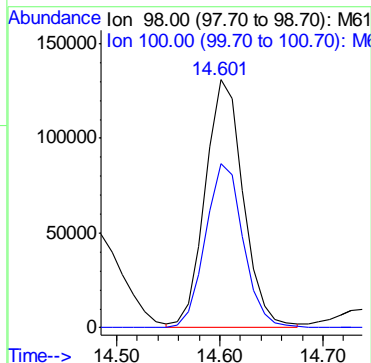
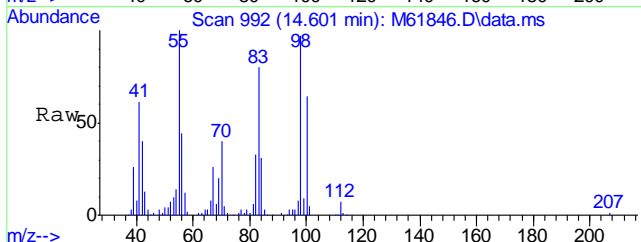
Ion	Ratio	Lower	Upper
117	100		
119	32.6	11.2	51.2





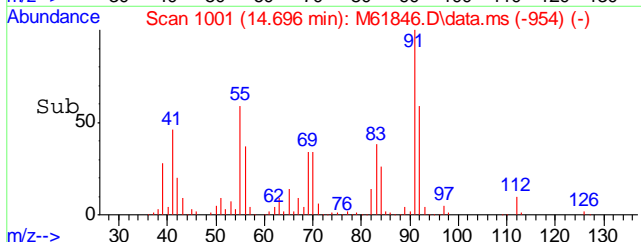
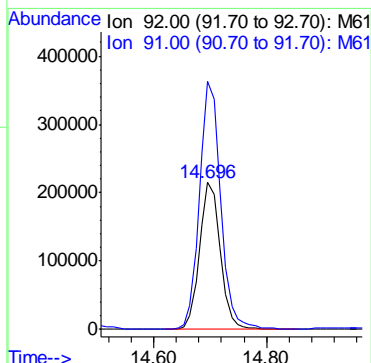
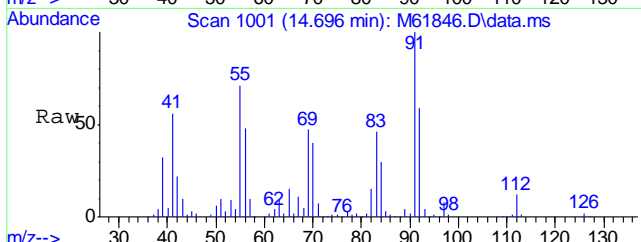
#56
Toluene-d8
Concen: 19.04 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

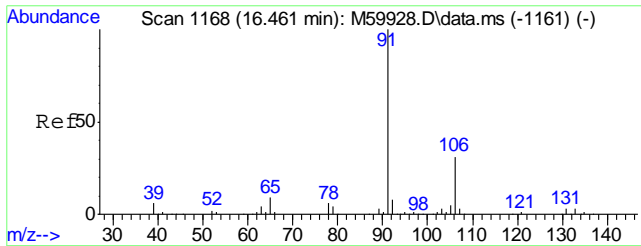
Tgt Ion	Resp	Lower	Upper
98	336248	100	100
100	65.3	44.3	84.3



#57
Toluene
Concen: 36.80 ppb
RT: 14.696 min Scan# 1001
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion	Resp	Lower	Upper
92	548583	100	100
91	172.3	150.5	190.5

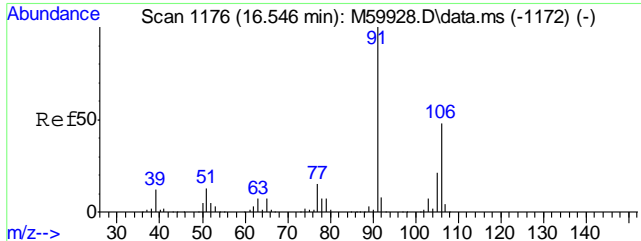
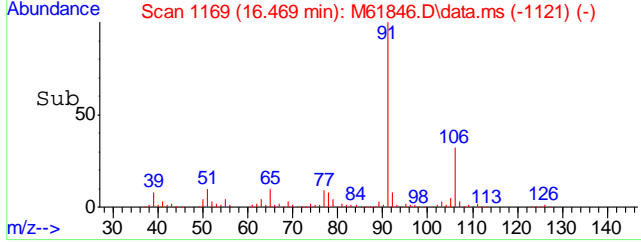
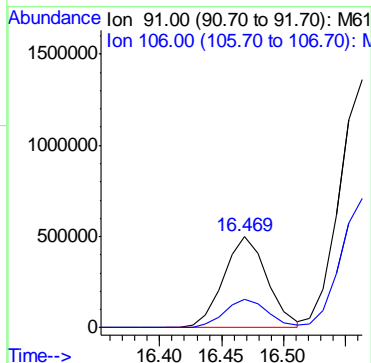
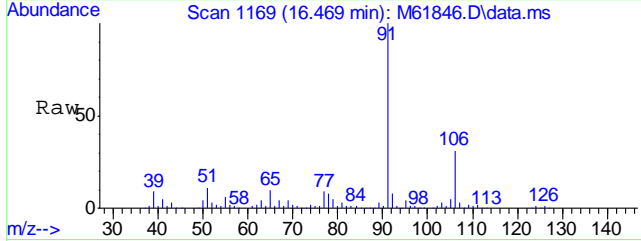




#67
 Ethyl Benzene
 Concen: 43.86 ppb
 RT: 16.469 min Scan# 1169
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 91 Resp: 1231166

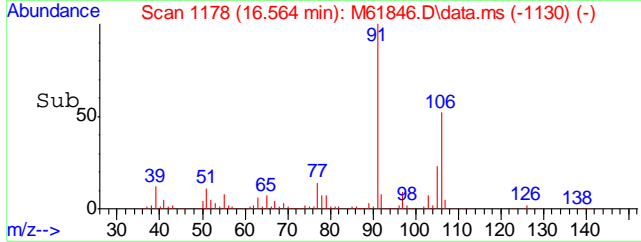
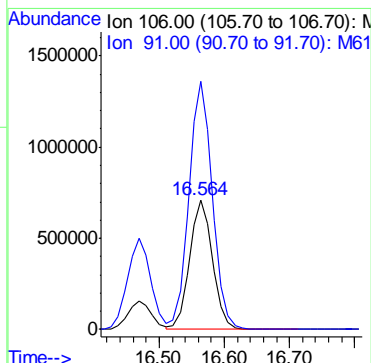
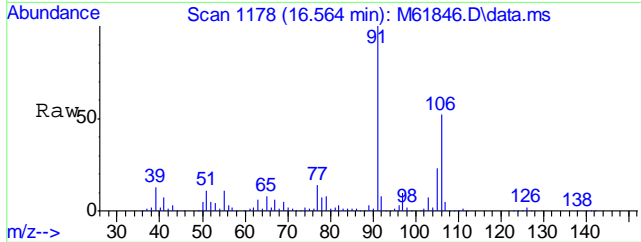
Ion	Ratio	Lower	Upper
91	100		
106	31.3	10.2	50.2

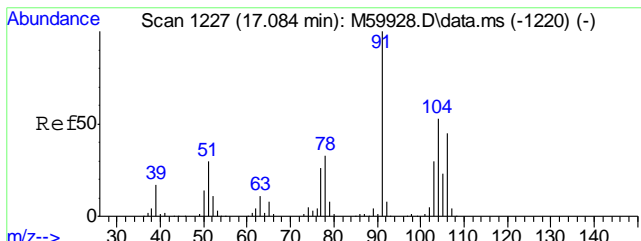


#68
 Xylene, m+p
 Concen: 171.69 ppb
 RT: 16.564 min Scan# 1178
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

Tgt Ion: 106 Resp: 1759764

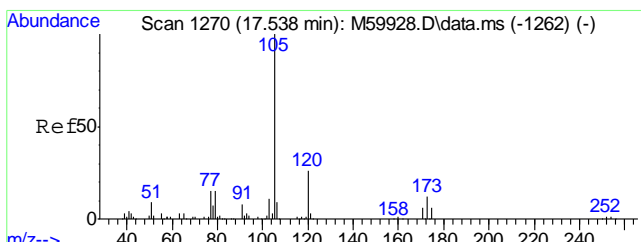
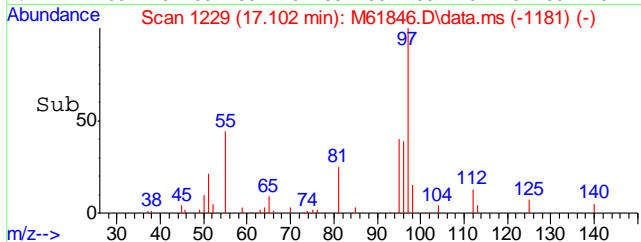
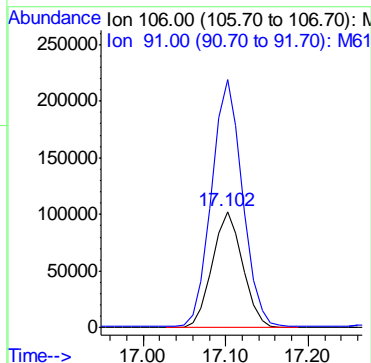
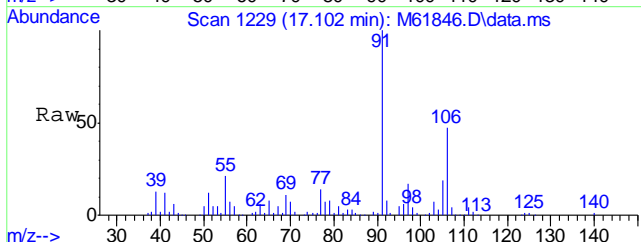
Ion	Ratio	Lower	Upper
106	100		
91	194.7	191.5	231.5





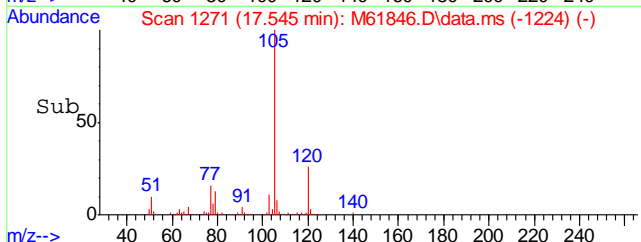
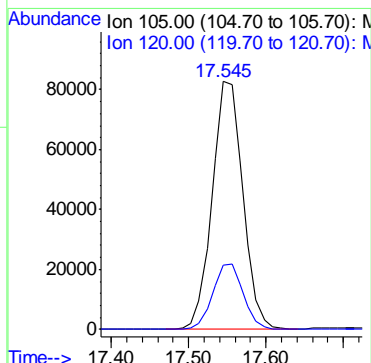
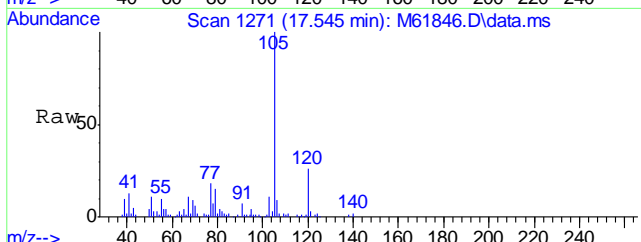
#69
Xylene, o
Concen: 25.49 ppb
RT: 17.102 min Scan# 1229
Delta R.T. 0.007 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

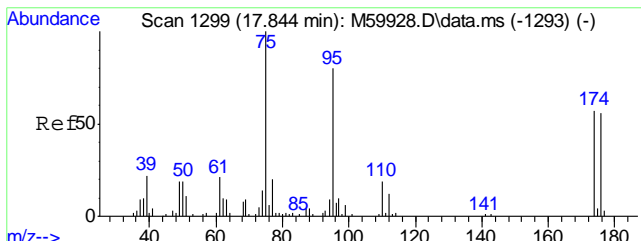
Tgt Ion	Resp	Lower	Upper
106	100		
91	215.8	203.2	243.2



#73
Isopropylbenzene
Concen: 8.68 ppb
RT: 17.545 min Scan# 1271
Delta R.T. -0.003 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

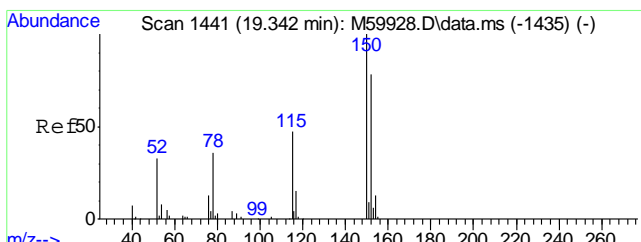
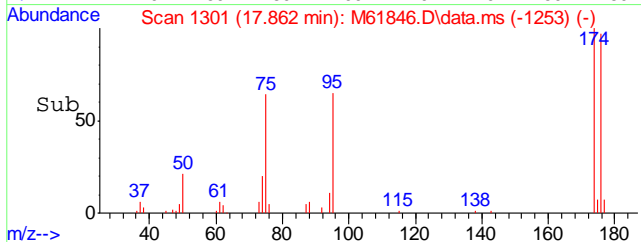
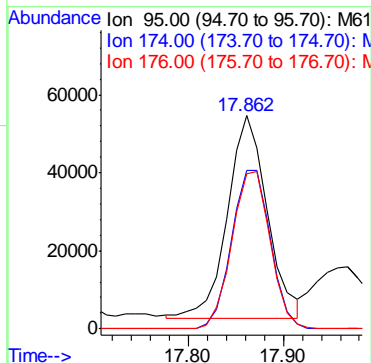
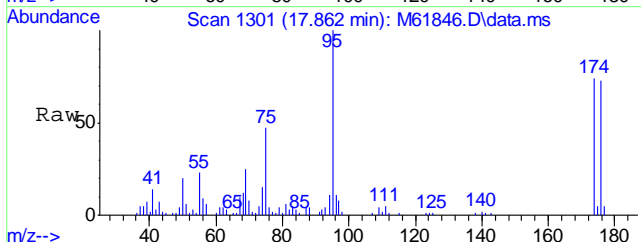
Tgt Ion	Resp	Lower	Upper
105	100		
120	26.3	5.7	45.7





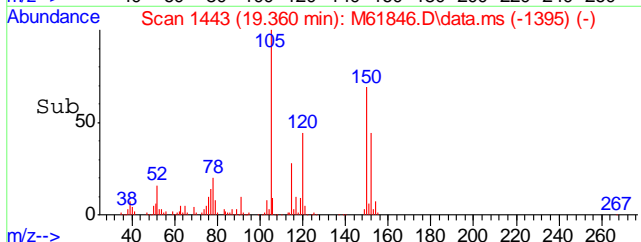
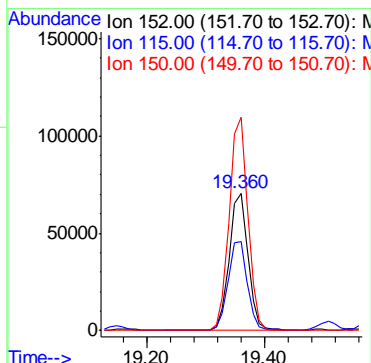
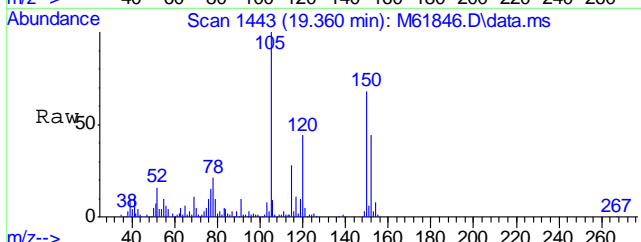
#74
 4-Bromofluorobenzene
 Concen: 21.48 ppb
 RT: 17.862 min Scan# 1301
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

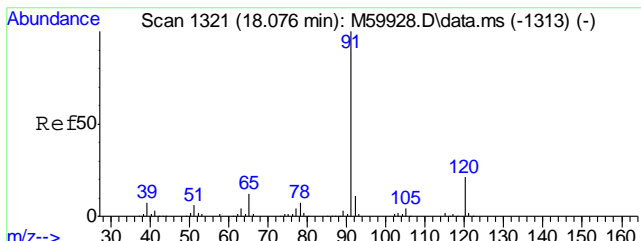
Tgt Ion	Resp	Lower	Upper
95	149161		
174	76.7	54.3	94.3
176	75.3	51.5	91.5



#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

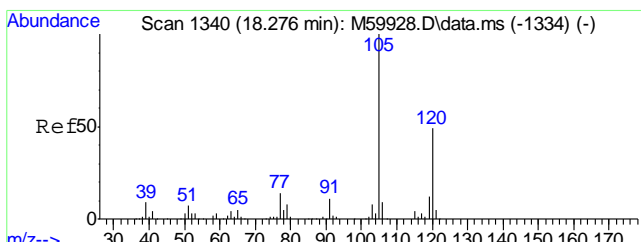
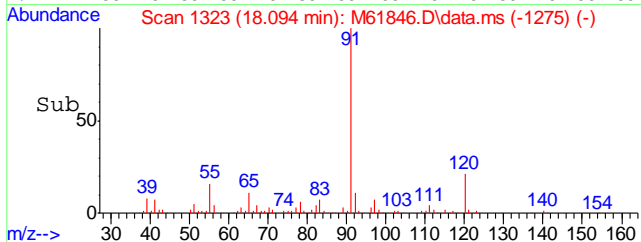
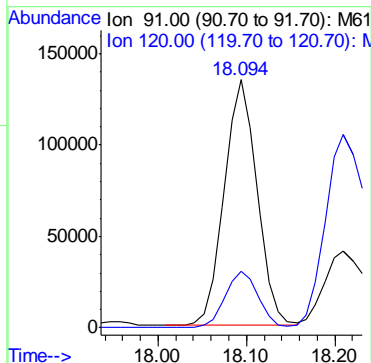
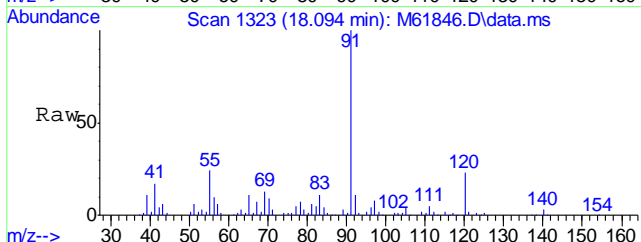
Tgt Ion	Resp	Lower	Upper
152	159914		
152	100		
115	66.6	40.9	80.9
150	151.5	178.6	218.6#





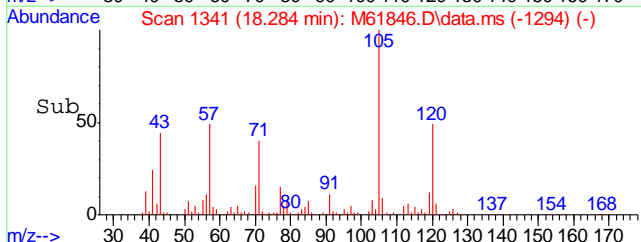
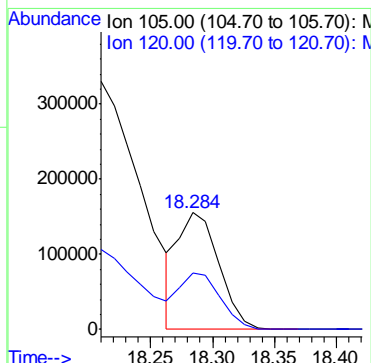
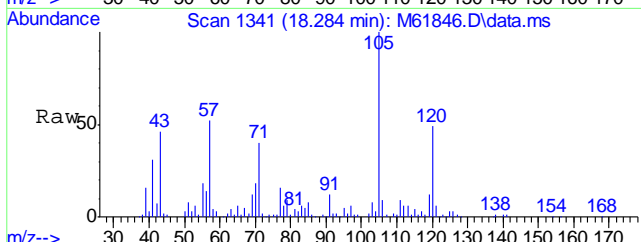
#79
 n-Propylbenzene
 Concen: 9.21 ppb
 RT: 18.094 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

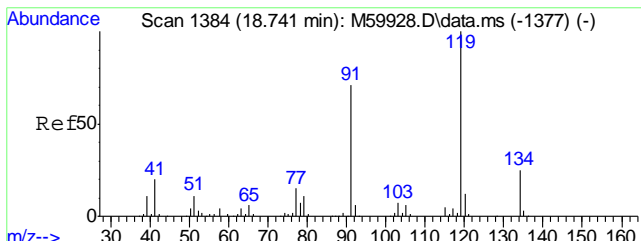
Tgt Ion	Resp	Lower	Upper
91	347623	100	
120	22.9	1.3	41.3



#81
 1,3,5-Trimethylbenzene
 Concen: 14.17 ppb
 RT: 18.284 min Scan# 1341
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

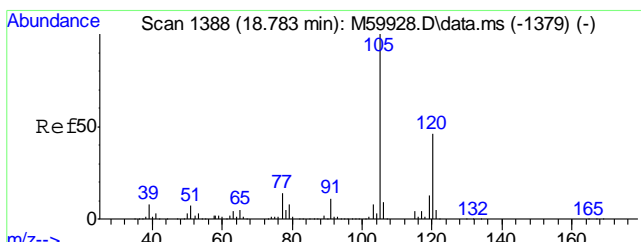
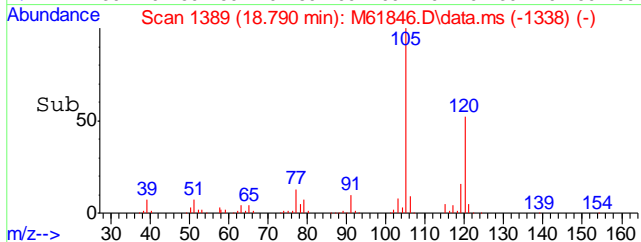
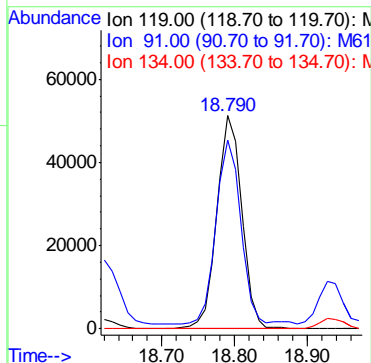
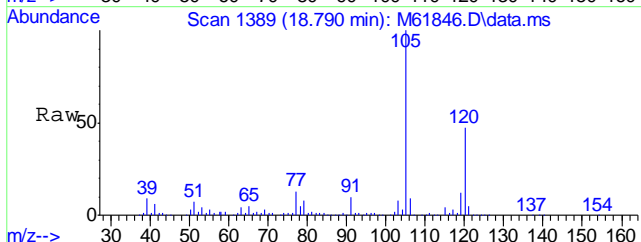
Tgt Ion	Resp	Lower	Upper
105	354545	100	
120	49.5	26.6	66.6





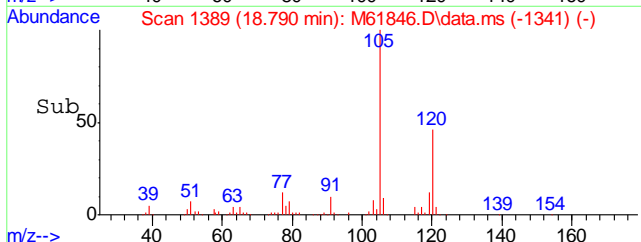
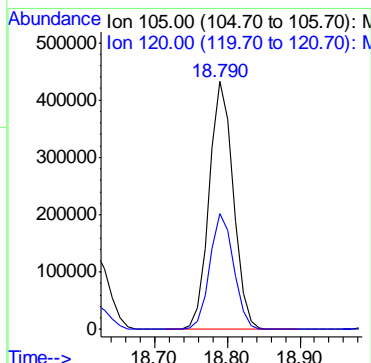
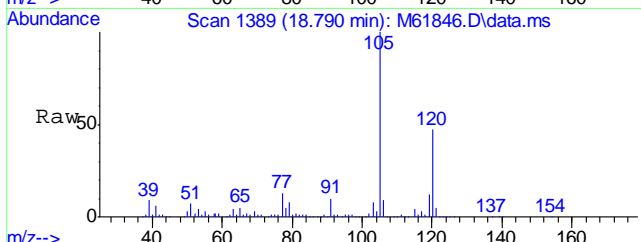
#84
 tert-Butylbenzene
 Concen: 4.97 ppb
 RT: 18.790 min Scan# 1389
 Delta R.T. 0.039 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

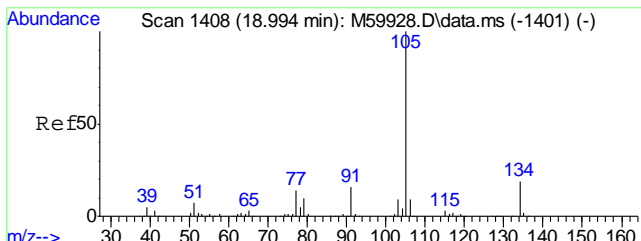
Tgt Ion	Resp	Lower	Upper
119	121087		
119	100		
91	86.6	54.6	94.6
134	0.0	0.4	40.4#



#86
 1,2,4-Trimethylbenzene
 Concen: 38.34 ppb
 RT: 18.790 min Scan# 1389
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

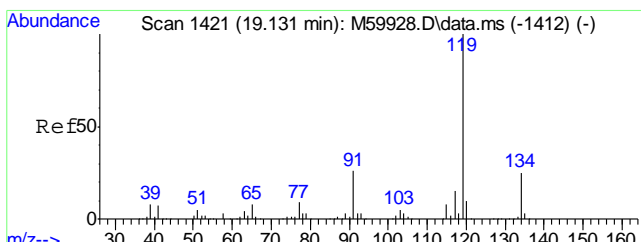
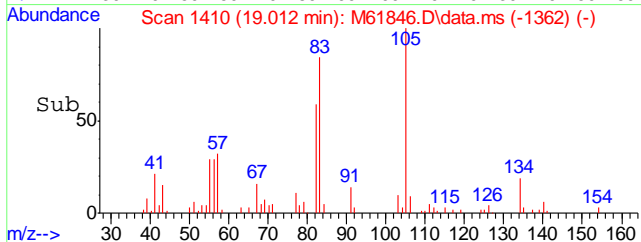
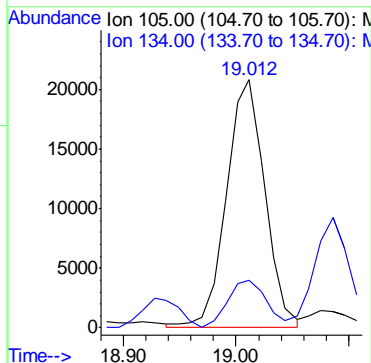
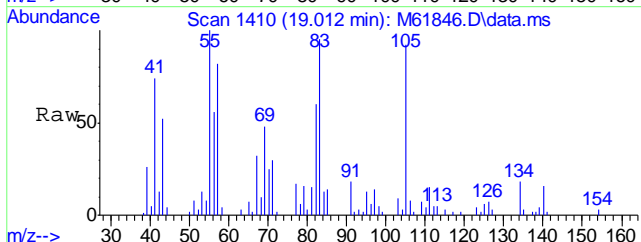
Tgt Ion	Resp	Lower	Upper
105	995631		
105	100		
120	46.3	32.4	72.4





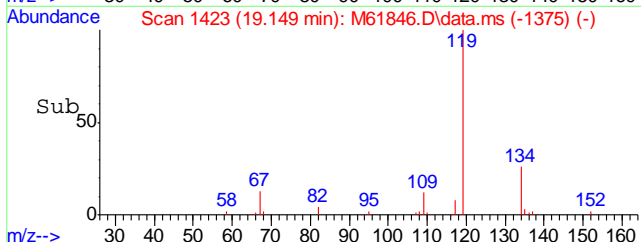
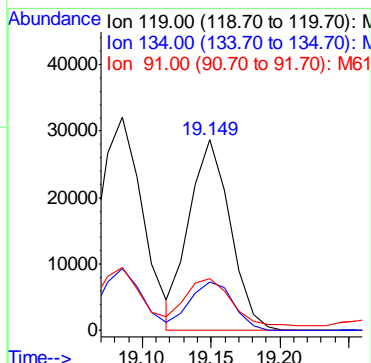
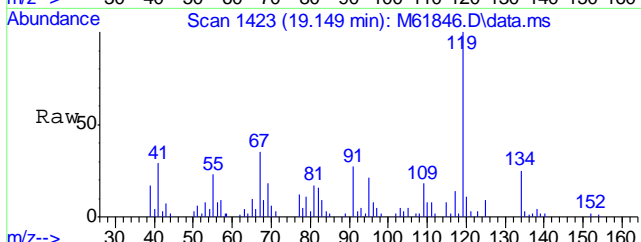
#87
 sec-Butylbenzene
 Concen: 1.51 ppb
 RT: 19.012 min Scan# 1410
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

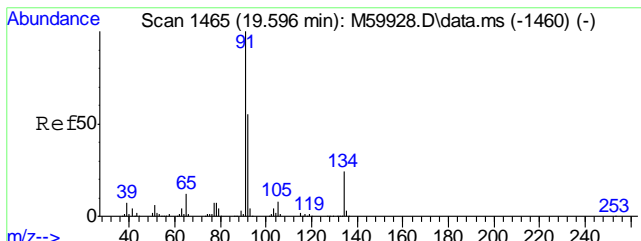
Tgt Ion	Resp	Lower	Upper
105	49407	100	
134	19.3	0.0	38.7



#88
 p-Isopropyltoluene
 Concen: 2.23 ppb
 RT: 19.149 min Scan# 1423
 Delta R.T. 0.007 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

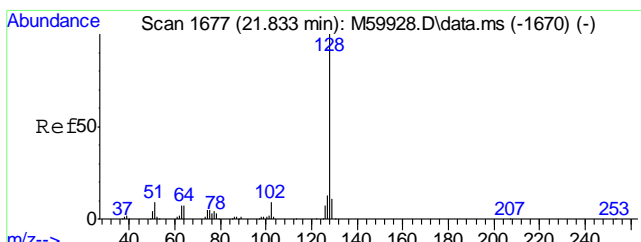
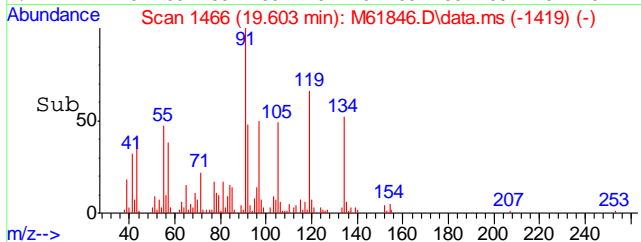
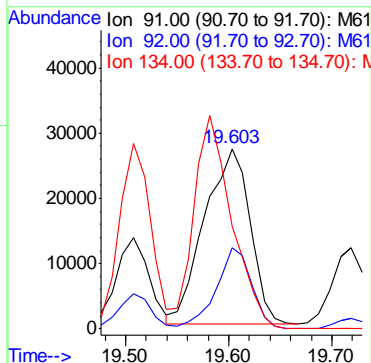
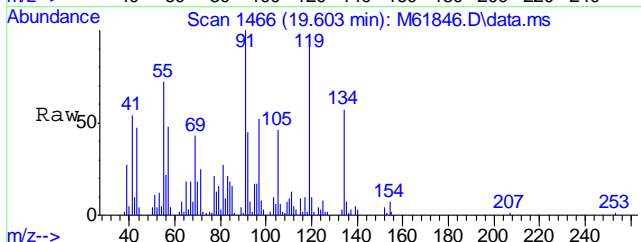
Tgt Ion	Resp	Lower	Upper
119	59692	100	
134	26.8	6.0	46.0
91	26.5	6.0	46.0





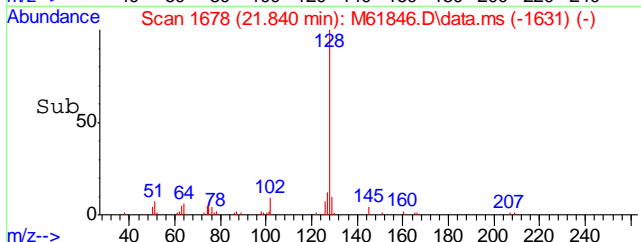
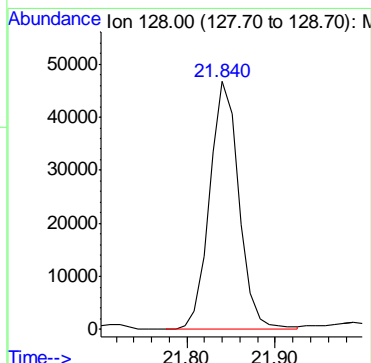
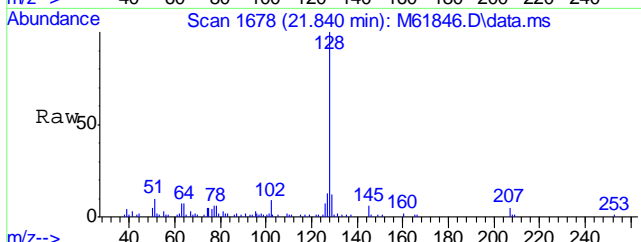
#92
 n-Butylbenzene
 Concen: 3.01 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

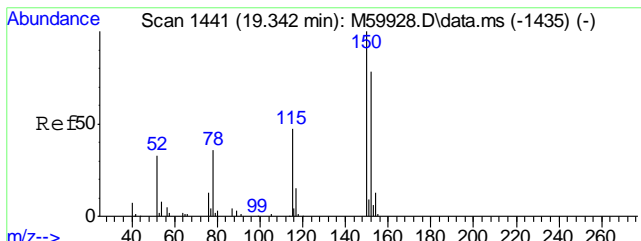
Tgt Ion	Resp	Lower	Upper
91	82038		
92	36.2	35.3	75.3
134	102.0	3.6	43.6#



#97
 Naphthalene
 Concen: 5.13 ppb
 RT: 21.840 min Scan# 1678
 Delta R.T. -0.003 min
 Lab File: M61846.D
 Acq: 13 Jul 2016 7:59 pm

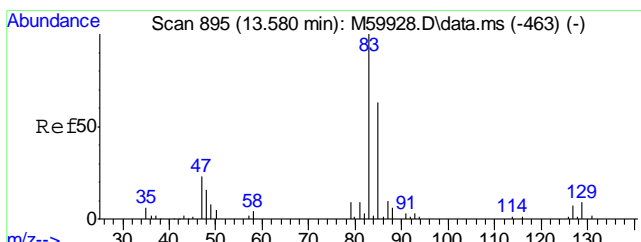
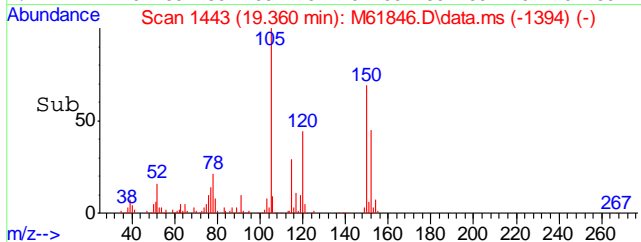
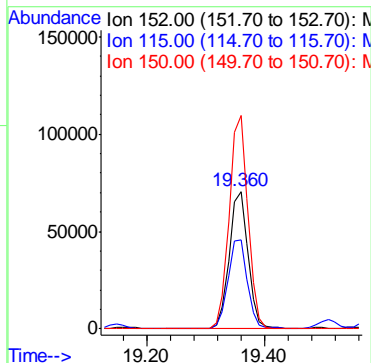
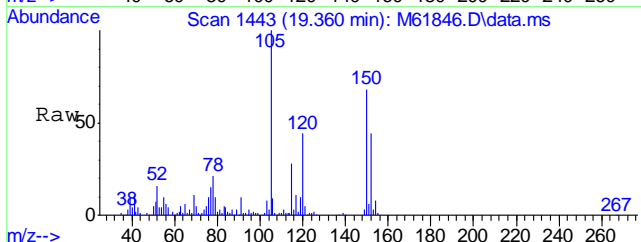
Tgt Ion	Resp
128	107752





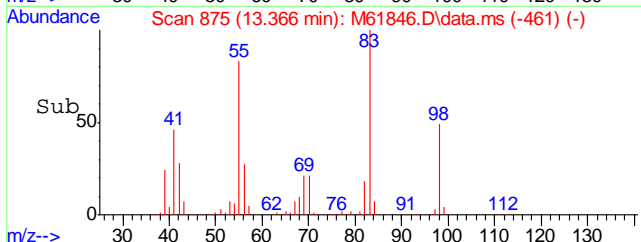
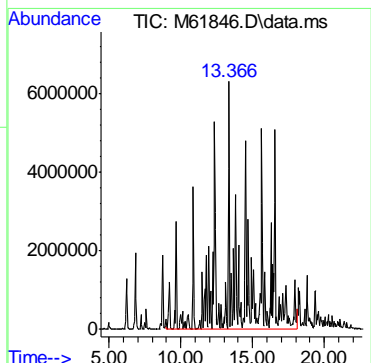
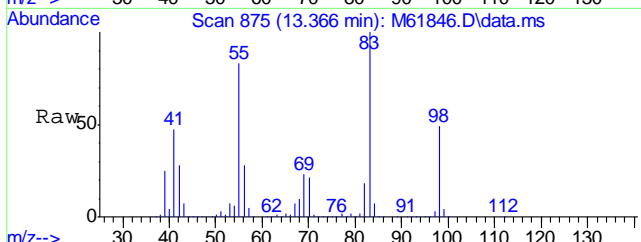
#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.018 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion	Resp	Lower	Upper
152	159914		
152	100		
115	66.6	37.3	77.3
150	151.5	176.0	216.0#



#100
TPH-GRO (C6-C10)
Concen: 8568.64 ppb m
RT: 13.366 min Scan# 875
Delta R.T. -0.184 min
Lab File: M61846.D
Acq: 13 Jul 2016 7:59 pm

Tgt Ion:TIC Resp:343761788



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61845.D
 Acq On : 13 Jul 2016 7:29 pm
 Operator : johannat
 Sample : C46435-17R
 Misc : MS1912,VM1859,5.20,,100,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 10:11:33 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.342	168	195190	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.672	114	289895	20.00	ppb	0.00
55) Chlorobenzene-d5	16.365	117	279960	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.352	152	165193	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.352	152	165193	20.00	ppb	0.00

System Monitoring Compounds

36) Dibromofluoromethane	11.458	111	87717	17.72	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	88.60%		
56) Toluene-d8	14.603	98	344609	18.86	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.30%		
74) 4-Bromofluorobenzene	17.864	95	145358	20.24	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	101.20%		

Target Compounds

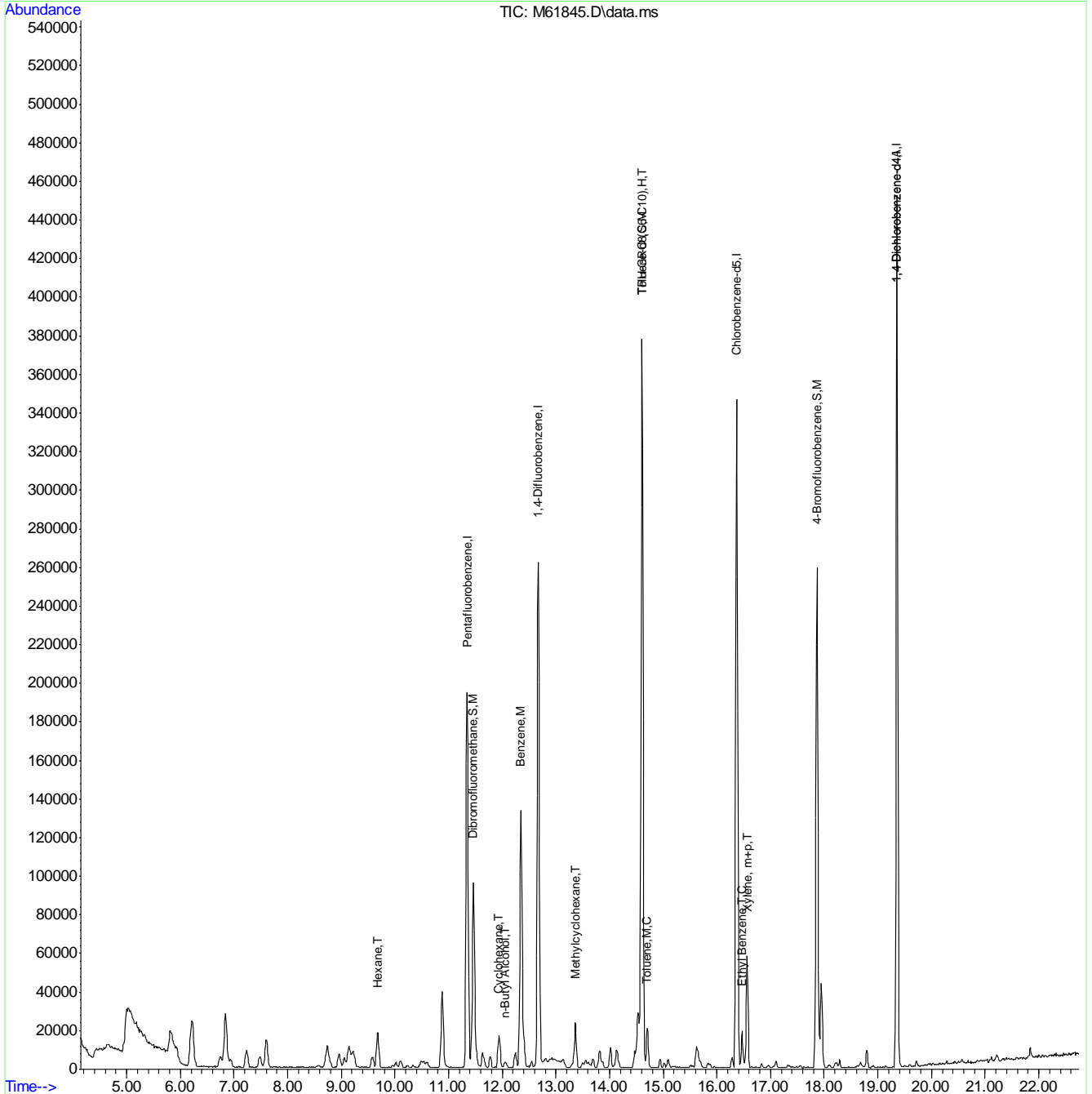
						Qvalue
24) Hexane	9.685	57	14874	1.45	ppb	98
38) Cyclohexane	11.933	56	13018	1.02	ppb	95
42) n-Butyl Alcohol	12.049	56	2180	15.53	ppb	90
45) Benzene	12.345	78	155925	6.15	ppb	100
48) Methylcyclohexane	13.358	55	12982	1.22	ppb	98
57) Toluene	14.698	92	10590	0.69	ppb	99
67) Ethyl Benzene	16.471	91	20910	0.72	ppb	98
68) Xylene, m+p	16.566	106	24160	2.28	ppb	96
100) TPH-GRO (C6-C10)	14.603	TIC	5985185m	29.27	ppb	

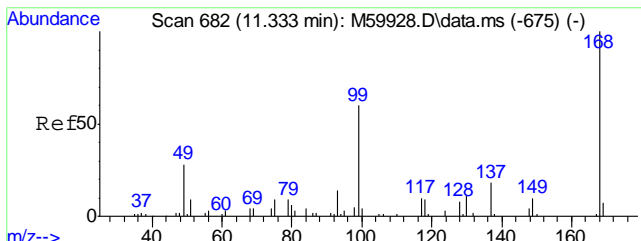
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

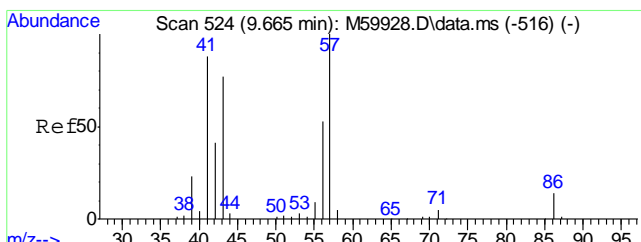
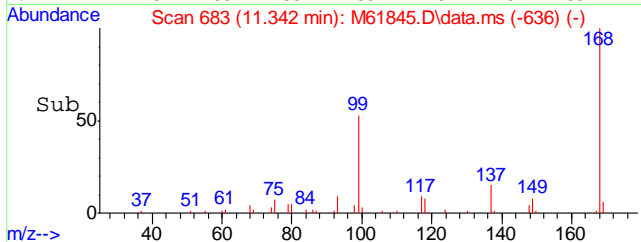
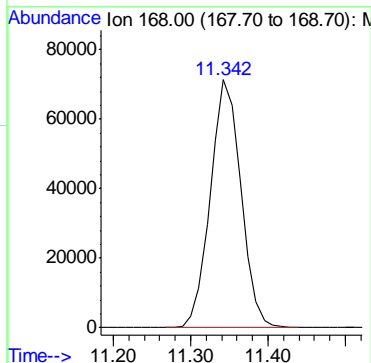
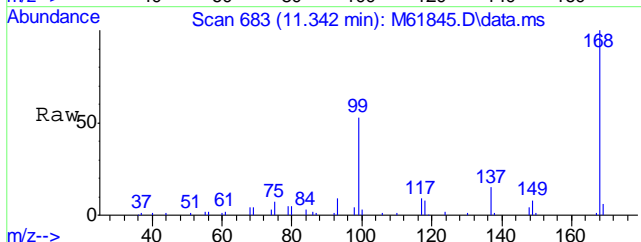
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61845.D
Acq On : 13 Jul 2016 7:29 pm
Operator : johannat
Sample : C46435-17R
Misc : MS1912,VM1859,5.20,,100,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 10:11:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

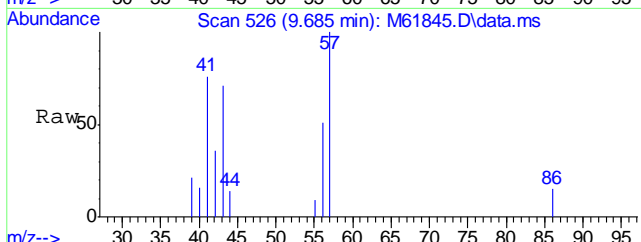




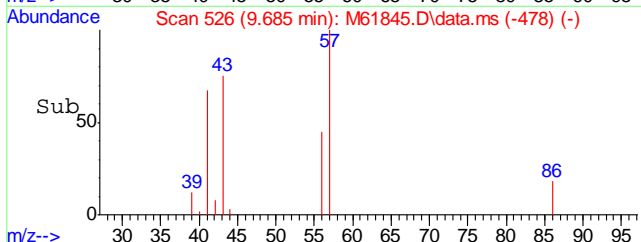
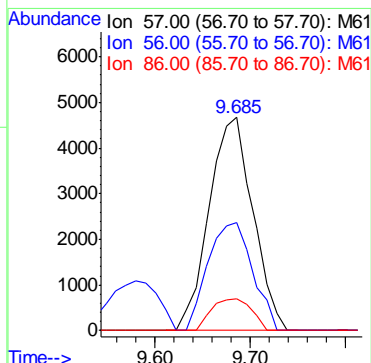
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.342 min Scan# 683
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion:168 Resp: 195190

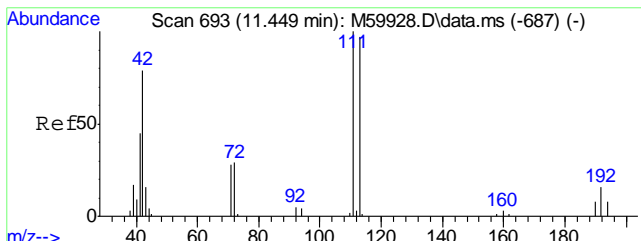


#24
 Hexane
 Concen: 1.45 ppb
 RT: 9.685 min Scan# 526
 Delta R.T. 0.010 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion: 57 Resp: 14874



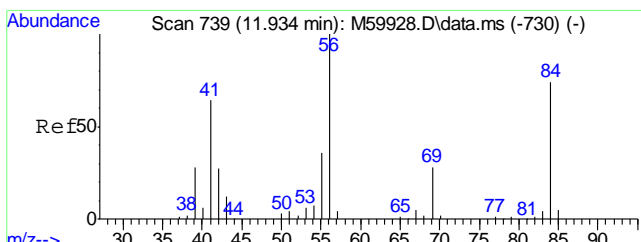
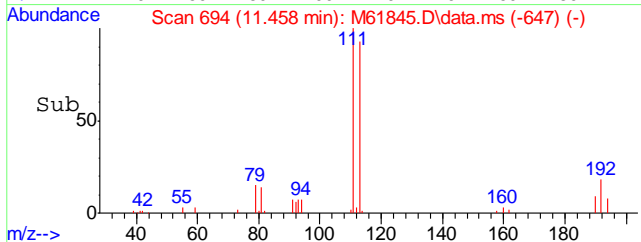
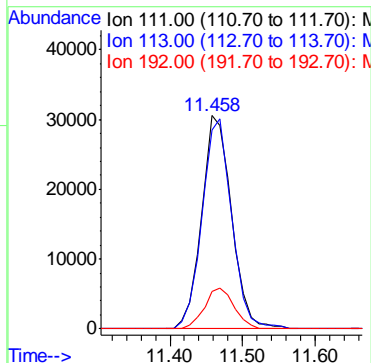
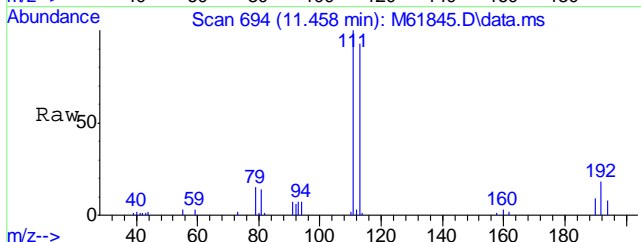
Ion	Ratio	Lower	Upper
57	100		
56	51.6	32.9	72.9
86	13.6	0.0	34.1





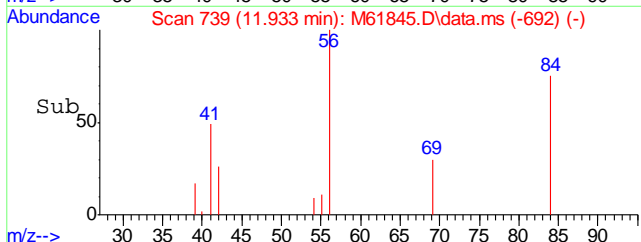
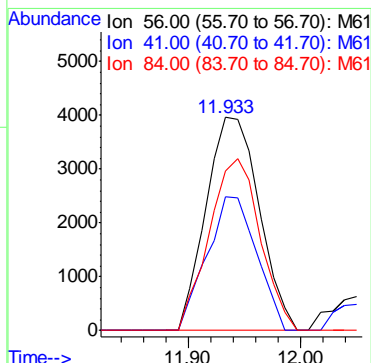
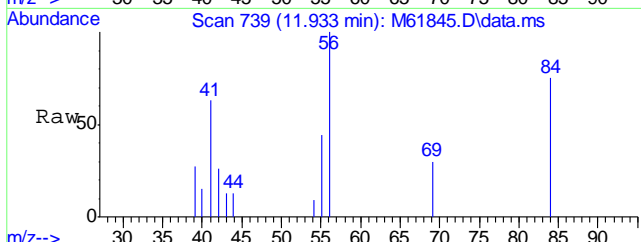
#36
 Dibromofluoromethane
 Concen: 17.72 ppb
 RT: 11.458 min Scan# 694
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

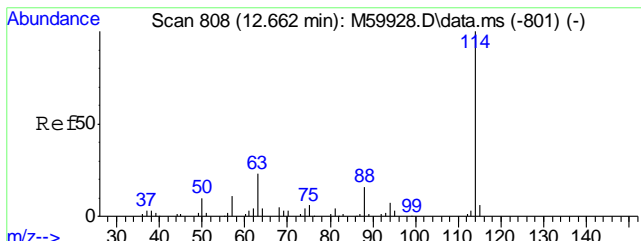
Tgt Ion	Resp	Lower	Upper
111	87717		
113	97.3	77.7	117.7
192	18.6	0.0	36.3



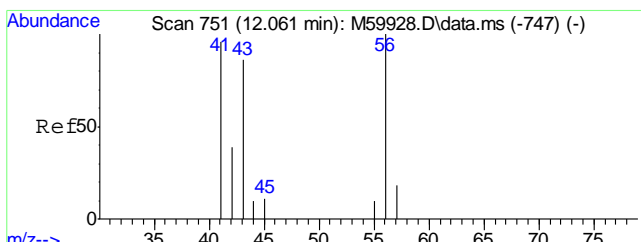
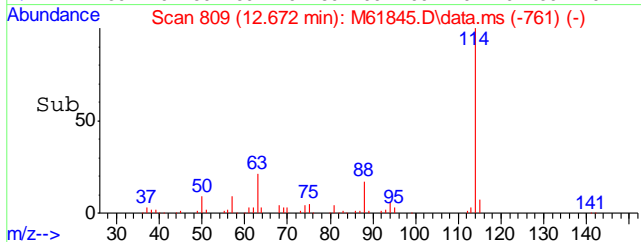
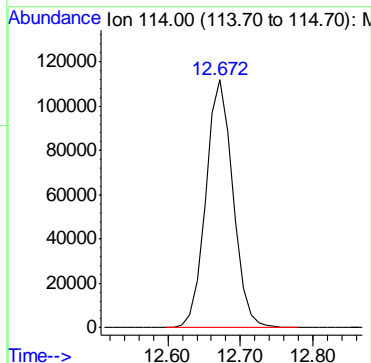
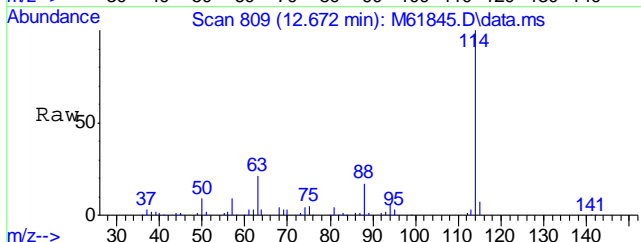
#38
 Cyclohexane
 Concen: 1.02 ppb
 RT: 11.933 min Scan# 739
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

Tgt Ion	Resp	Lower	Upper
56	13018		
41	58.5	46.3	86.3
84	77.0	56.0	96.0

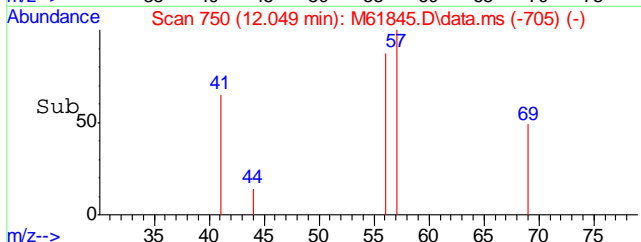
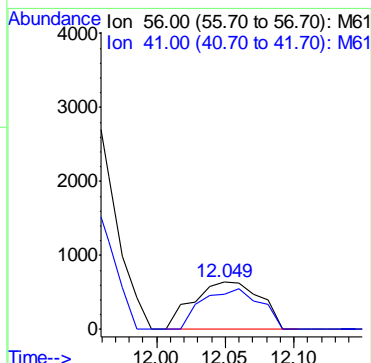
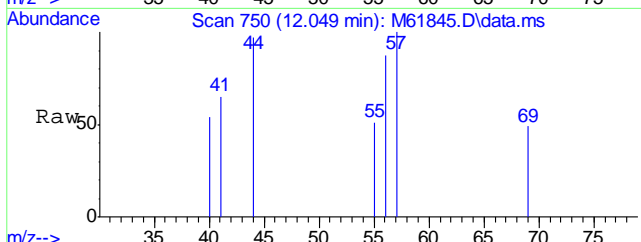


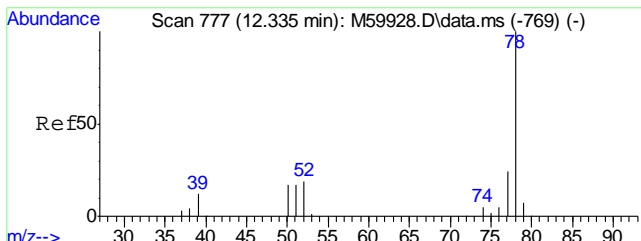


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.672 min Scan# 809
 Delta R.T. 0.010 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion:114 Resp: 289895

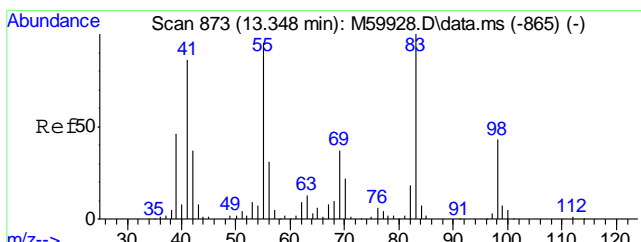
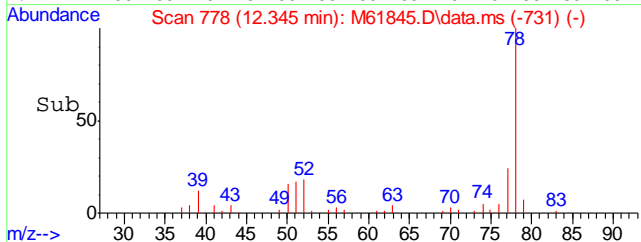
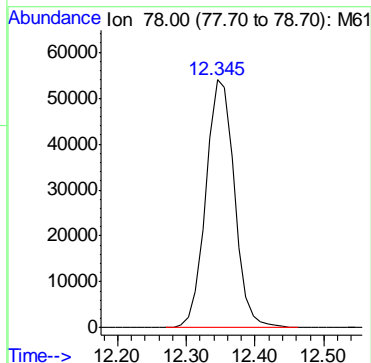
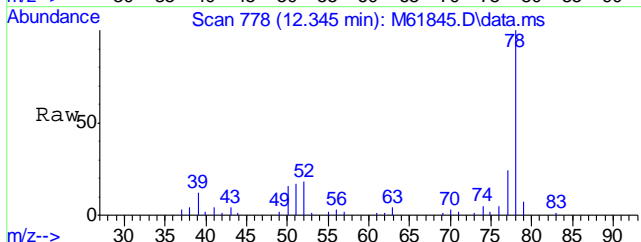


#42
 n-Butyl Alcohol
 Concen: 15.53 ppb
 RT: 12.049 min Scan# 750
 Delta R.T. -0.022 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion: 56 Resp: 2180
 Ion Ratio Lower Upper
 56 100
 41 74.1 63.5 103.5

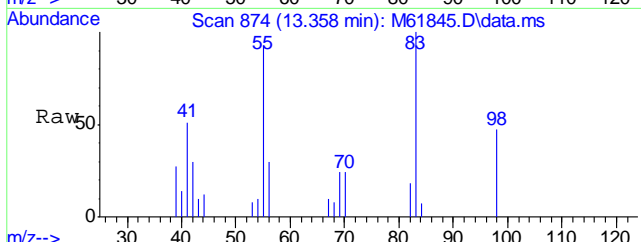




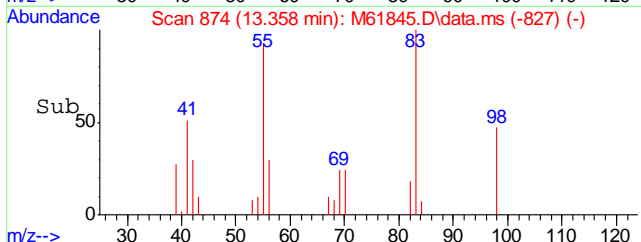
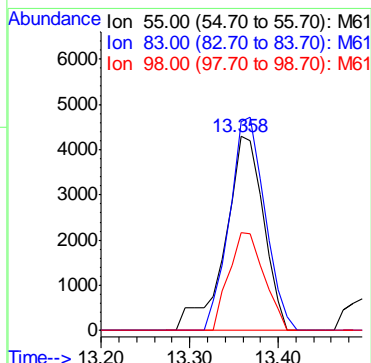
#45
Benzene
Concen: 6.15 ppb
RT: 12.345 min Scan# 778
Delta R.T. -0.001 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm
Tgt Ion: 78 Resp: 155925

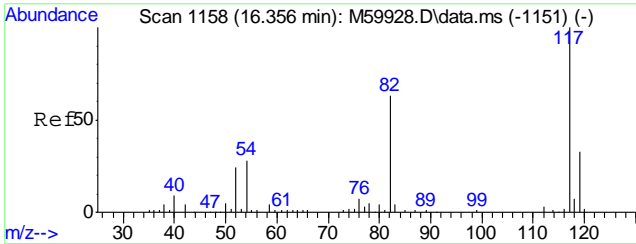


#48
Methylcyclohexane
Concen: 1.22 ppb
RT: 13.358 min Scan# 874
Delta R.T. -0.001 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm
Tgt Ion: 55 Resp: 12982



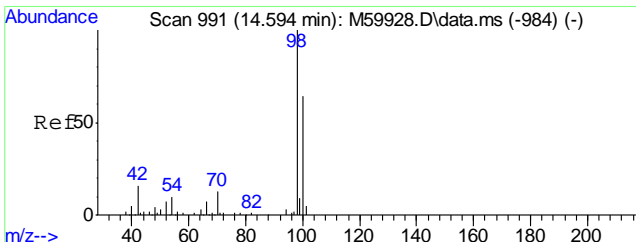
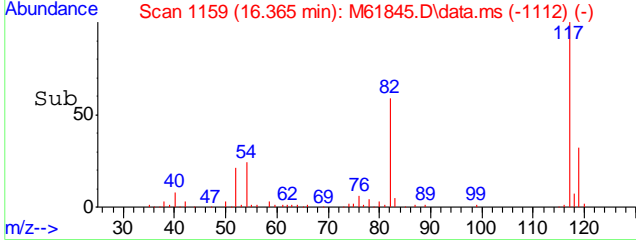
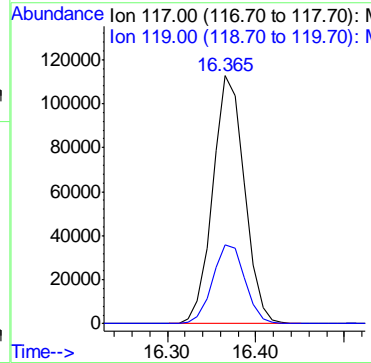
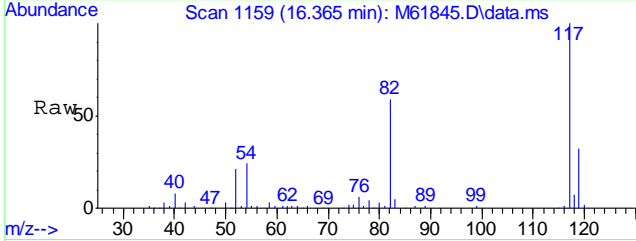
Ion	Ratio	Lower	Upper
55	100		
83	101.6	84.5	124.5
98	46.1	27.0	67.0





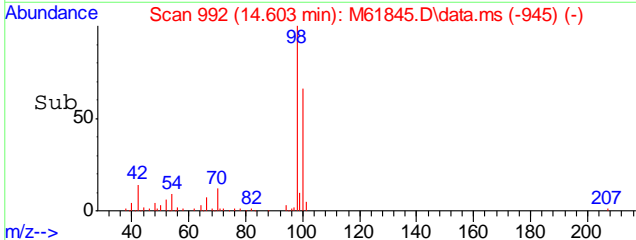
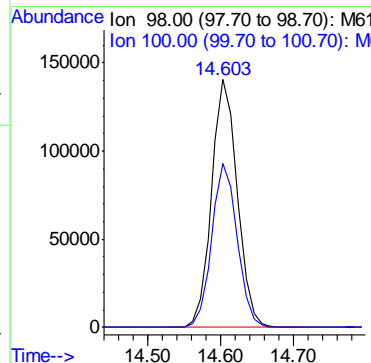
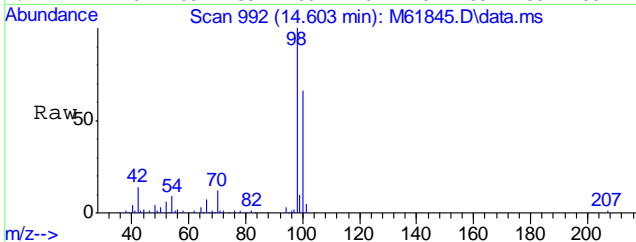
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.365 min Scan# 1159
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

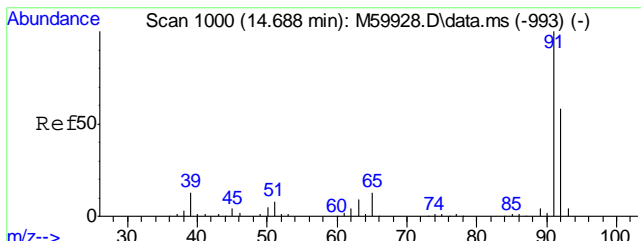
Tgt Ion	Resp	Lower	Upper
117	279960	100	
119	32.7	11.2	51.2



#56
 Toluene-d8
 Concen: 18.86 ppb
 RT: 14.603 min Scan# 992
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

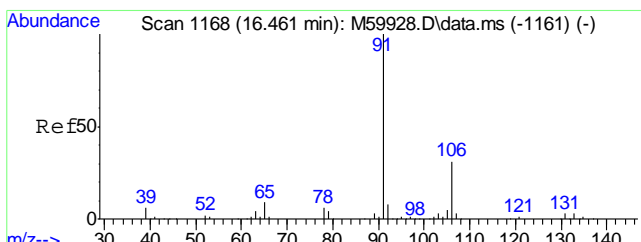
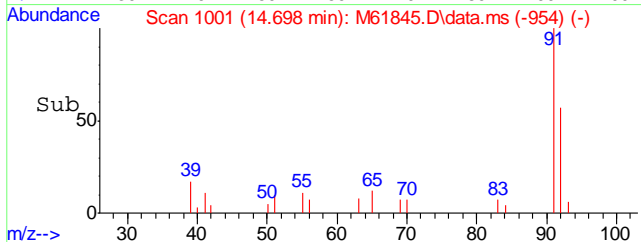
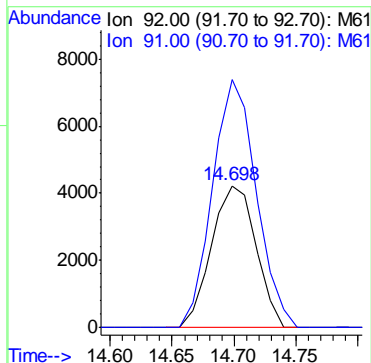
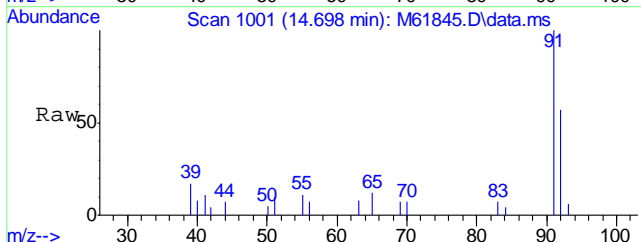
Tgt Ion	Resp	Lower	Upper
98	344609	100	
100	65.4	44.3	84.3





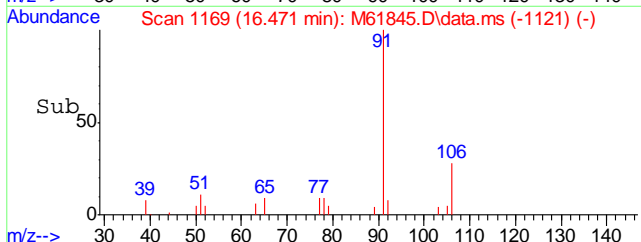
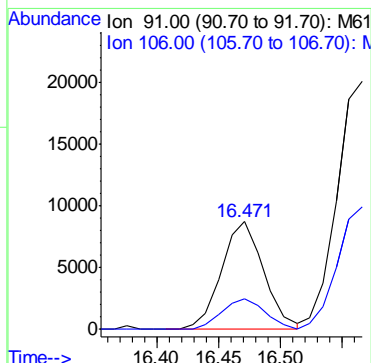
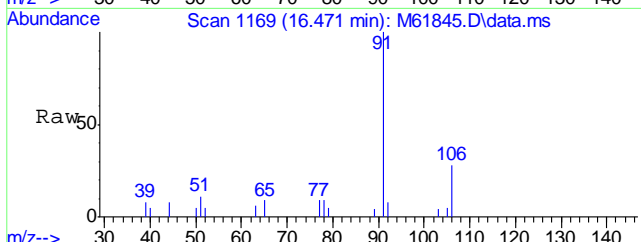
#57
Toluene
Concen: 0.69 ppb
RT: 14.698 min Scan# 1001
Delta R.T. -0.001 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

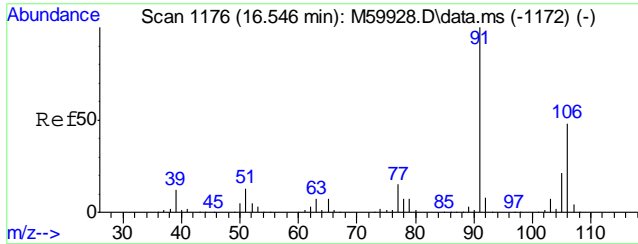
Tgt Ion: 92 Resp: 10590
Ion Ratio Lower Upper
92 100
91 172.4 150.5 190.5



#67
Ethyl Benzene
Concen: 0.72 ppb
RT: 16.471 min Scan# 1169
Delta R.T. 0.010 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

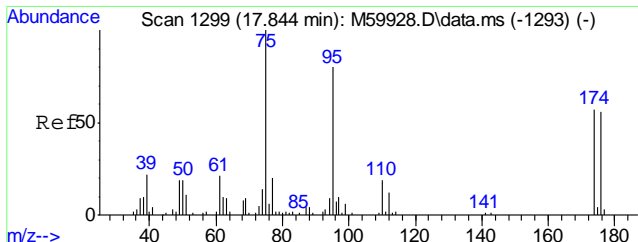
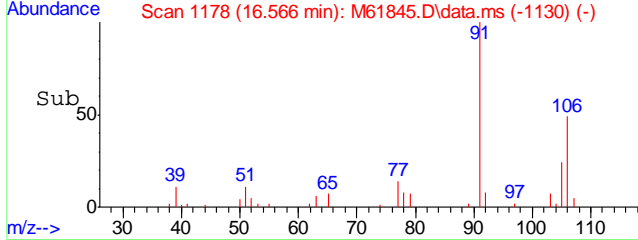
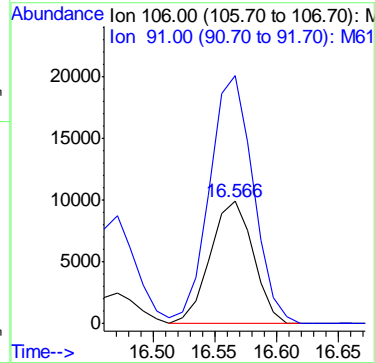
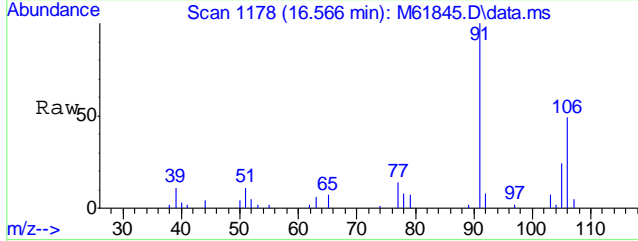
Tgt Ion: 91 Resp: 20910
Ion Ratio Lower Upper
91 100
106 29.2 10.2 50.2





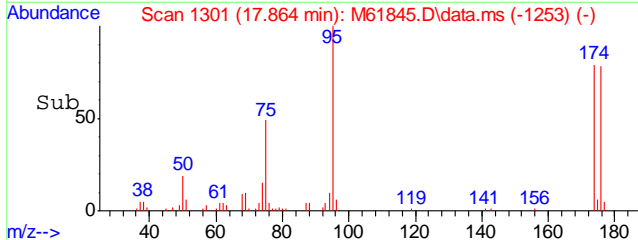
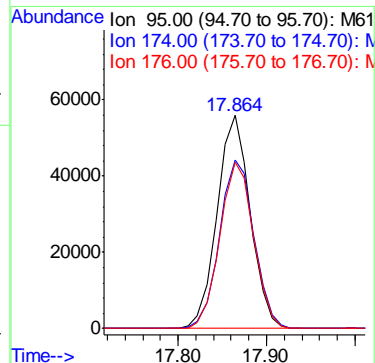
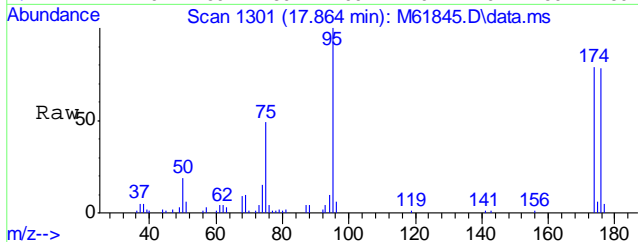
#68
 Xylene, m+p
 Concen: 2.28 ppb
 RT: 16.566 min Scan# 1178
 Delta R.T. 0.010 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

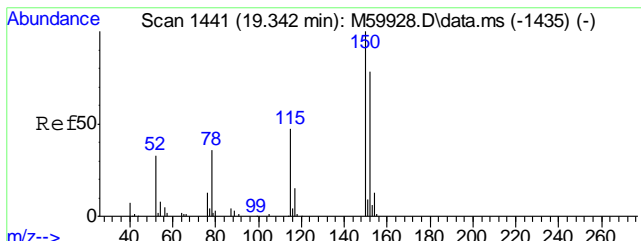
Tgt Ion	Resp	Lower	Upper
106	24160	100	
91	204.5	191.5	231.5



#74
 4-Bromofluorobenzene
 Concen: 20.24 ppb
 RT: 17.864 min Scan# 1301
 Delta R.T. 0.010 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

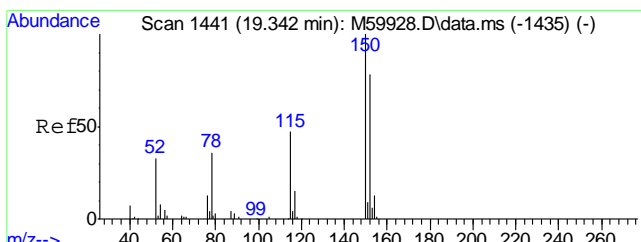
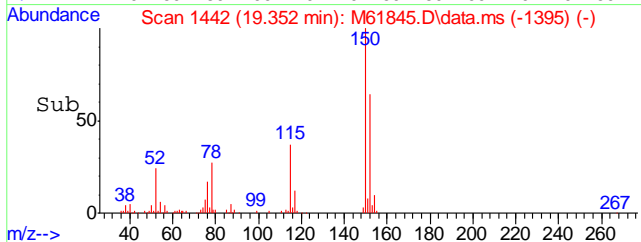
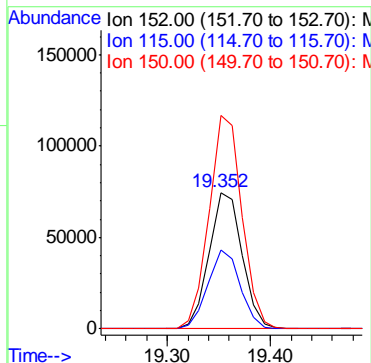
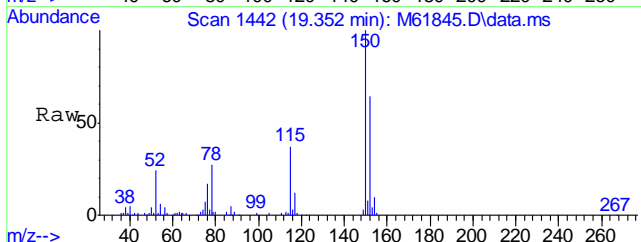
Tgt Ion	Resp	Lower	Upper
95	145358	100	
174	81.9	54.3	94.3
176	79.3	51.5	91.5





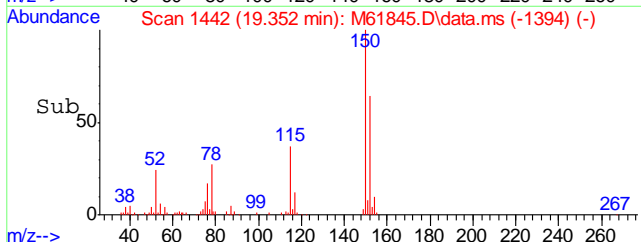
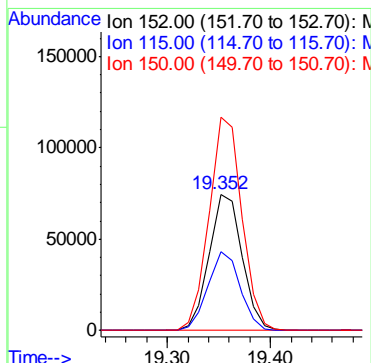
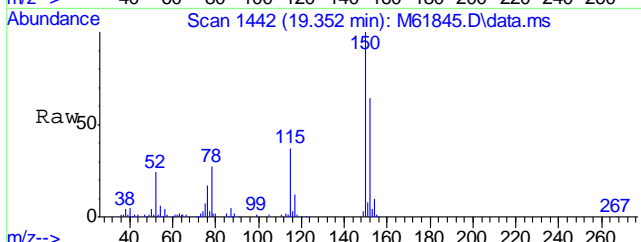
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.352 min Scan# 1442
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

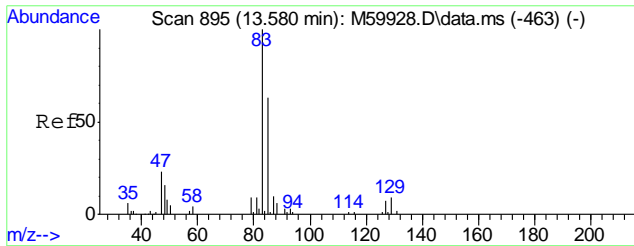
Tgt Ion	Resp	Lower	Upper
152	165193	100	
115	56.7	40.9	80.9
150	155.8	178.6	218.6#



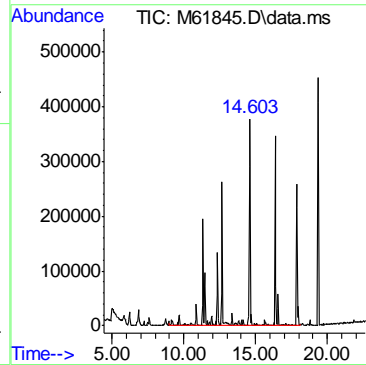
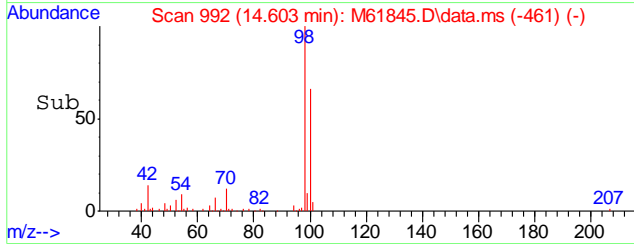
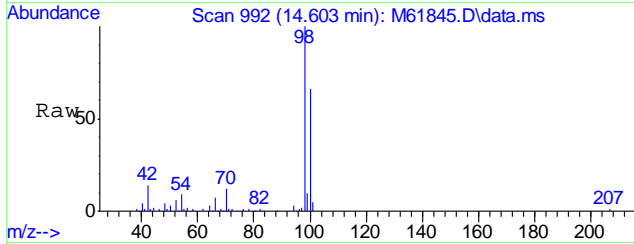
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.352 min Scan# 1442
 Delta R.T. 0.010 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

Tgt Ion	Resp	Lower	Upper
152	165193	100	
115	56.7	37.3	77.3
150	155.8	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 29.27 ppb m
RT: 14.603 min Scan# 992
Delta R.T. 1.053 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm
Tgt Ion:TIC Resp: 5985185



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61845.D
 Acq On : 13 Jul 2016 7:29 pm
 Operator : johannat
 Sample : C46435-17R
 Misc : MS1912,VM1859,5.20,,100,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 10:11:33 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.342	168	195190	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.672	114	289895	20.00	ppb	0.00
55) Chlorobenzene-d5	16.365	117	279960	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.352	152	165193	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.352	152	165193	20.00	ppb	0.00

System Monitoring Compounds

36) Dibromofluoromethane	11.458	111	87717	17.72	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	88.60%		
56) Toluene-d8	14.603	98	344609	18.86	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.30%		
74) 4-Bromofluorobenzene	17.864	95	145358	20.24	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	101.20%		

Target Compounds

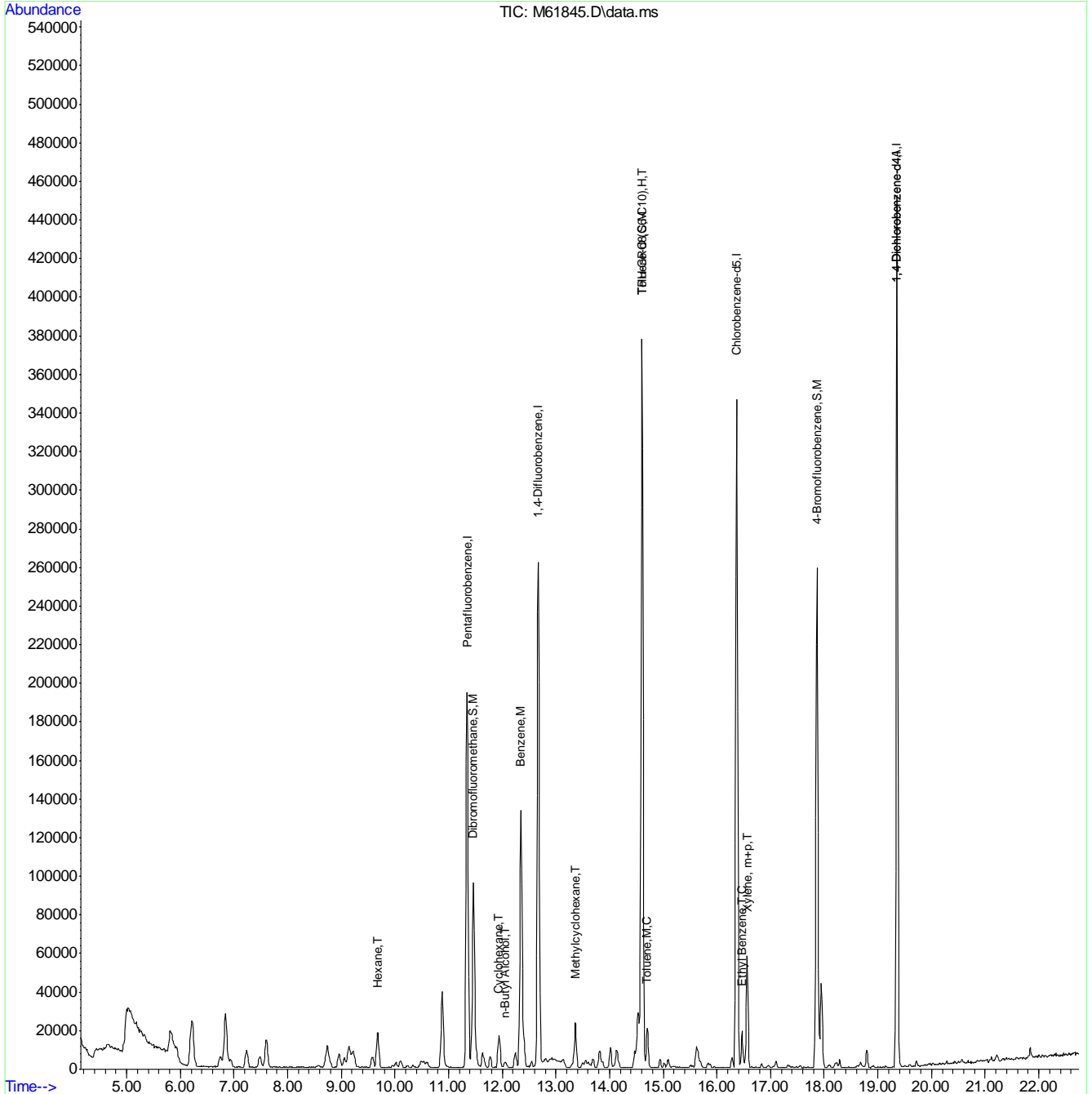
						Qvalue
24) Hexane	9.685	57	14874	1.45	ppb	98
38) Cyclohexane	11.933	56	13018	1.02	ppb	95
42) n-Butyl Alcohol	12.049	56	2180	15.53	ppb	90
45) Benzene	12.345	78	155925	6.15	ppb	100
48) Methylcyclohexane	13.358	55	12982	1.22	ppb	98
57) Toluene	14.698	92	10590	0.69	ppb	99
67) Ethyl Benzene	16.471	91	20910	0.72	ppb	98
68) Xylene, m+p	16.566	106	24160	2.28	ppb	96
100) TPH-GRO (C6-C10)	14.603	TIC	5985185m	29.27	ppb	

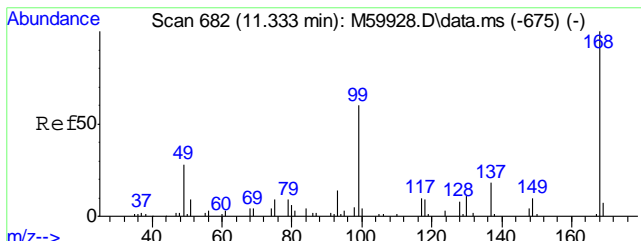
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

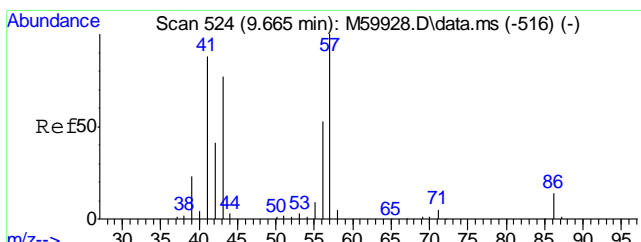
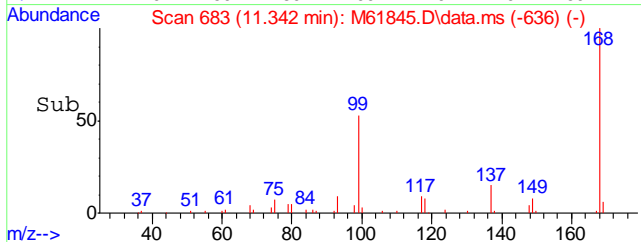
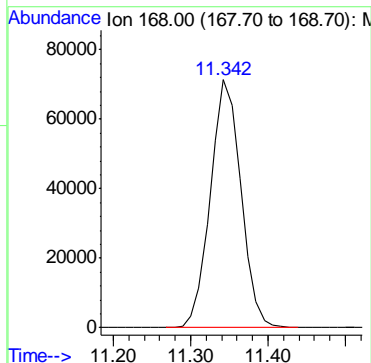
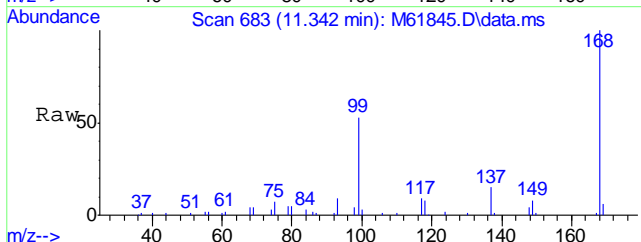
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61845.D
Acq On : 13 Jul 2016 7:29 pm
Operator : johannat
Sample : C46435-17R
Misc : MS1912,VM1859,5.20,,100,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 10:11:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

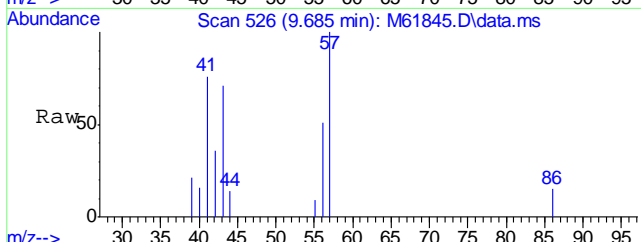




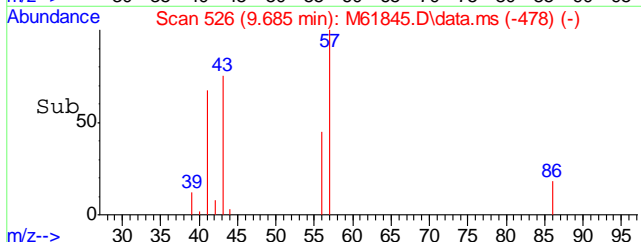
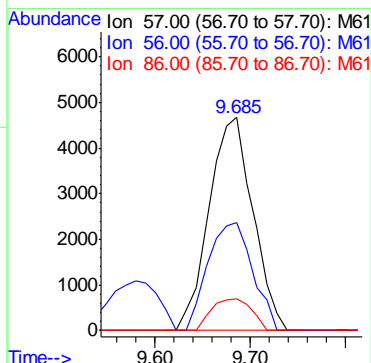
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.342 min Scan# 683
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion:168 Resp: 195190

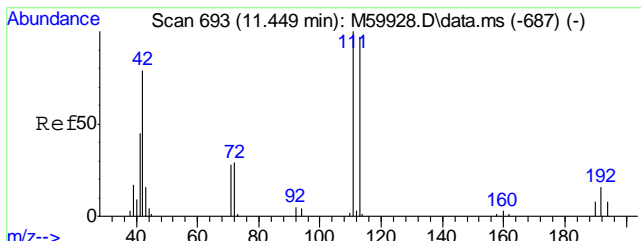


#24
 Hexane
 Concen: 1.45 ppb
 RT: 9.685 min Scan# 526
 Delta R.T. 0.010 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion: 57 Resp: 14874



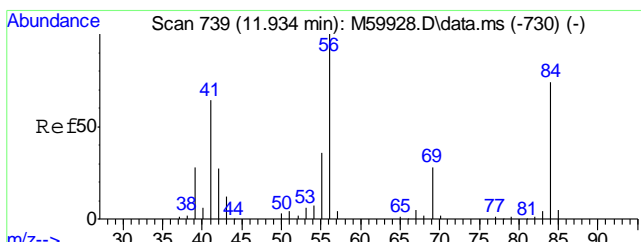
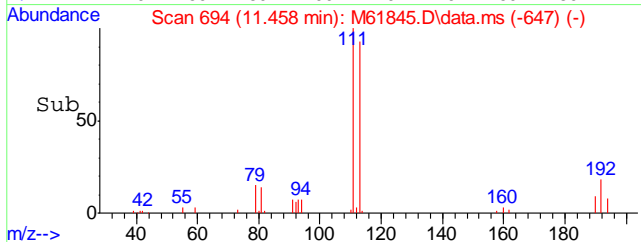
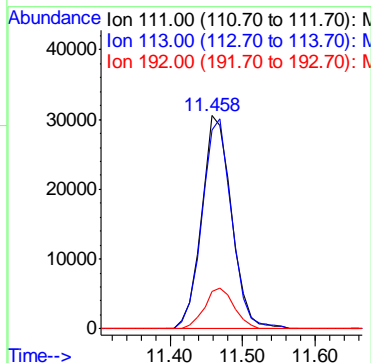
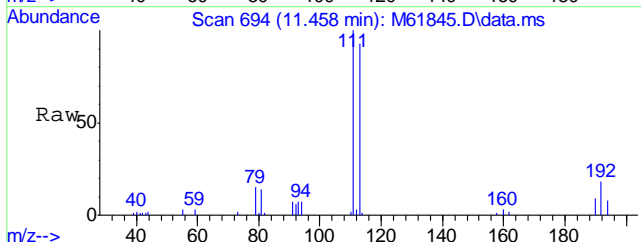
Ion	Ratio	Lower	Upper
57	100		
56	51.6	32.9	72.9
86	13.6	0.0	34.1





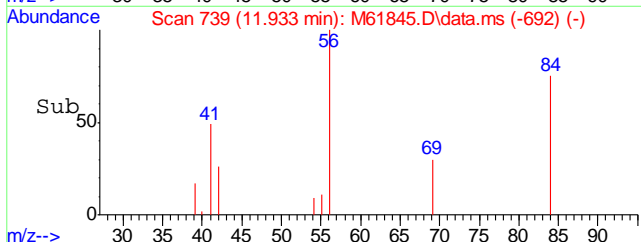
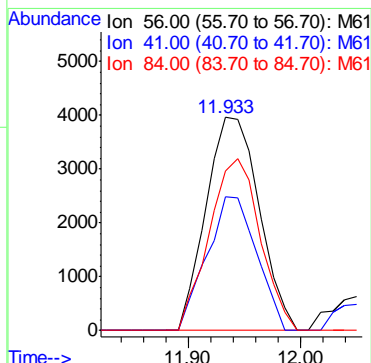
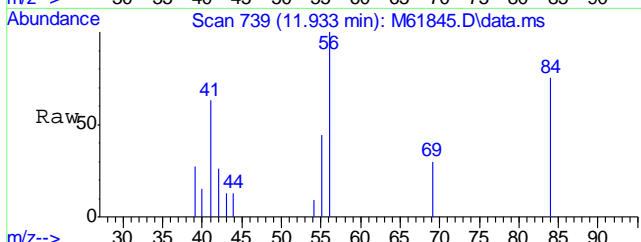
#36
 Dibromofluoromethane
 Concen: 17.72 ppb
 RT: 11.458 min Scan# 694
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

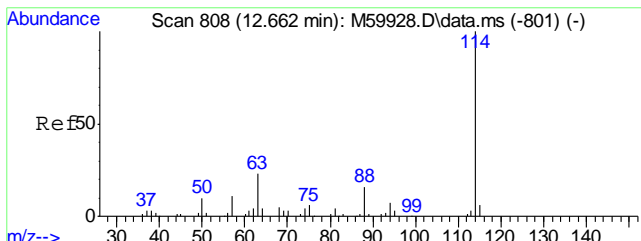
Tgt Ion	Resp	Lower	Upper
111	87717		
113	97.3	77.7	117.7
192	18.6	0.0	36.3



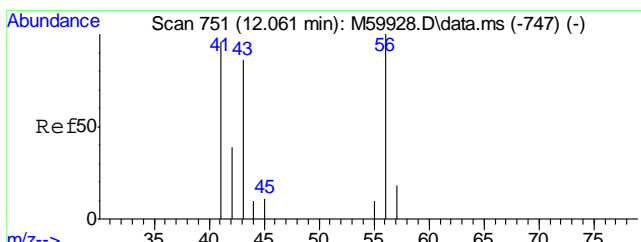
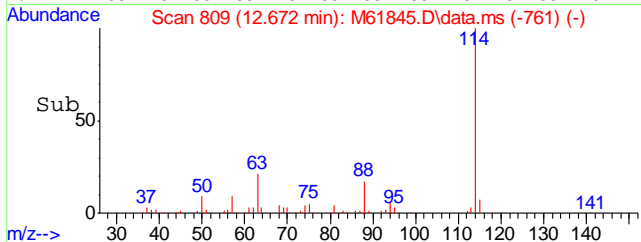
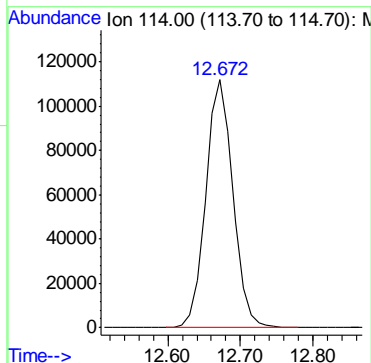
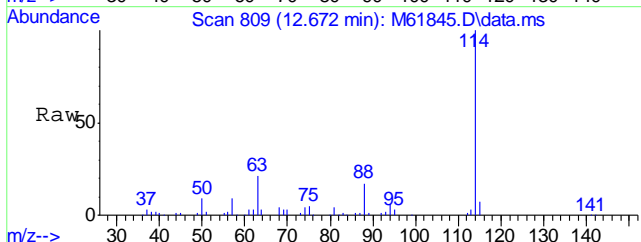
#38
 Cyclohexane
 Concen: 1.02 ppb
 RT: 11.933 min Scan# 739
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

Tgt Ion	Resp	Lower	Upper
56	13018		
41	58.5	46.3	86.3
84	77.0	56.0	96.0

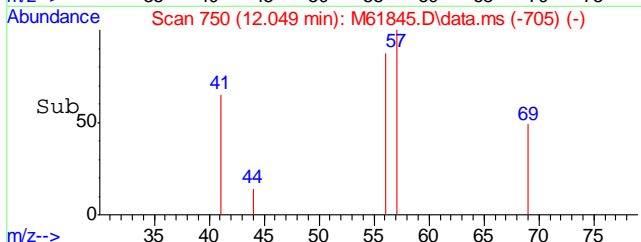
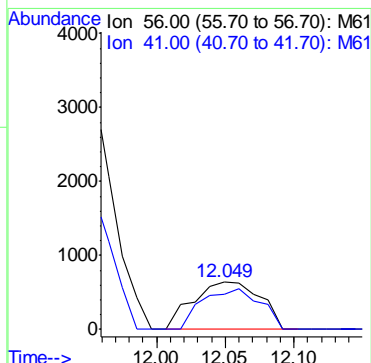
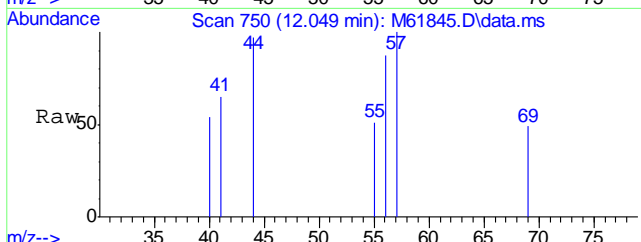


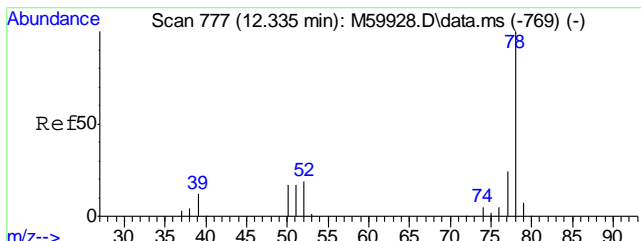


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.672 min Scan# 809
 Delta R.T. 0.010 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion:114 Resp: 289895

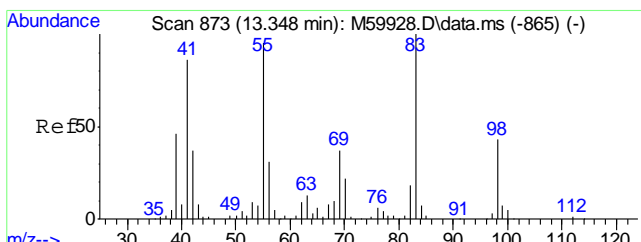
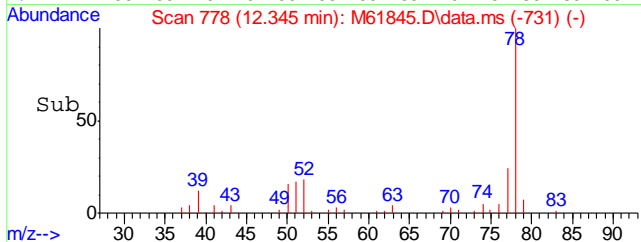
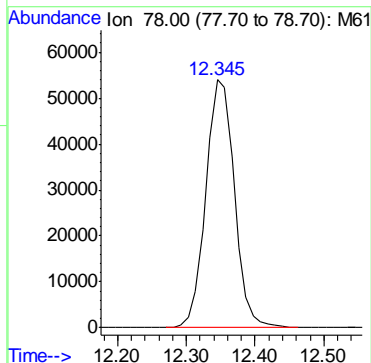
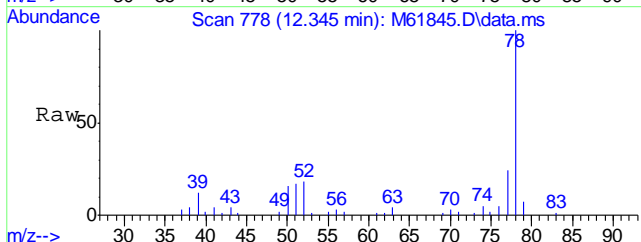


#42
 n-Butyl Alcohol
 Concen: 15.53 ppb
 RT: 12.049 min Scan# 750
 Delta R.T. -0.022 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm
 Tgt Ion: 56 Resp: 2180
 Ion Ratio Lower Upper
 56 100
 41 74.1 63.5 103.5

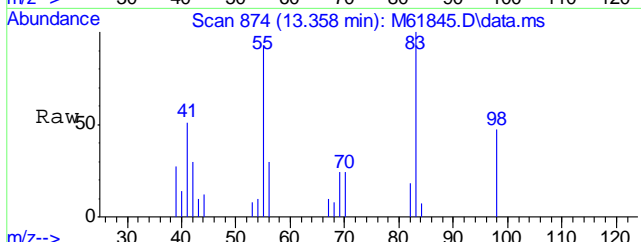




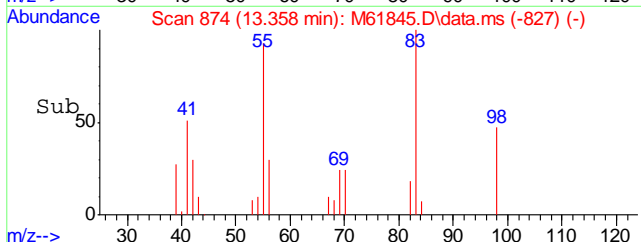
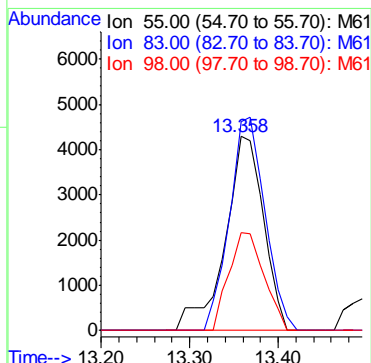
#45
Benzene
Concen: 6.15 ppb
RT: 12.345 min Scan# 778
Delta R.T. -0.001 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm
Tgt Ion: 78 Resp: 155925

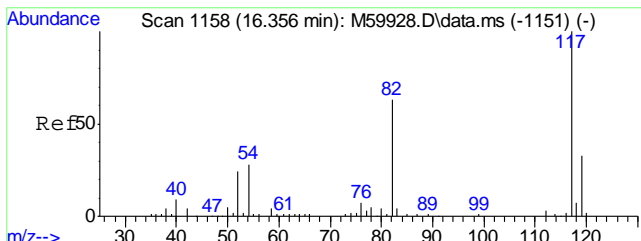


#48
Methylcyclohexane
Concen: 1.22 ppb
RT: 13.358 min Scan# 874
Delta R.T. -0.001 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm
Tgt Ion: 55 Resp: 12982



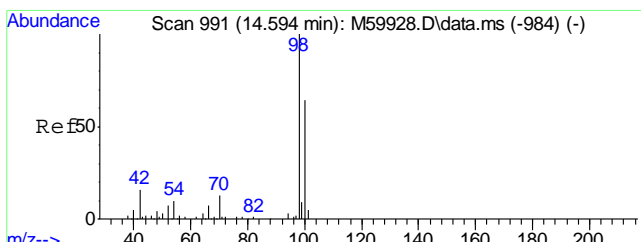
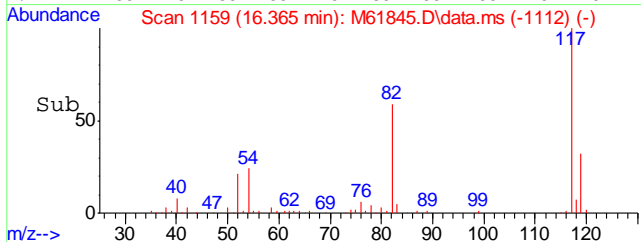
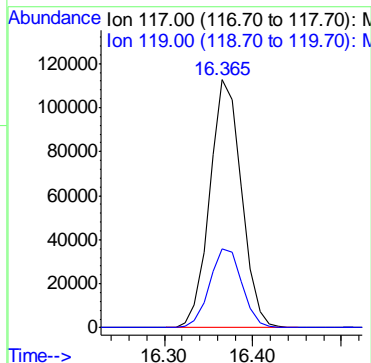
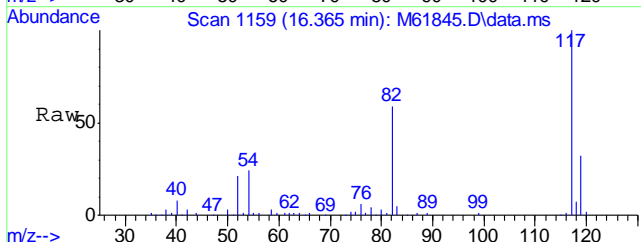
Ion	Ratio	Lower	Upper
55	100		
83	101.6	84.5	124.5
98	46.1	27.0	67.0





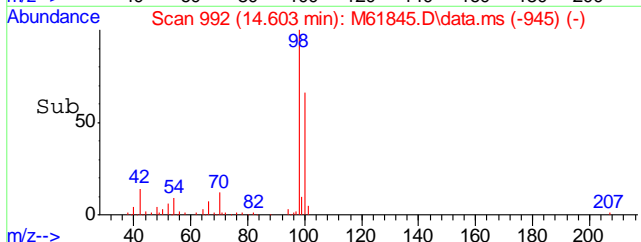
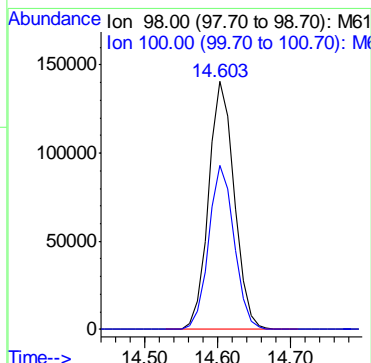
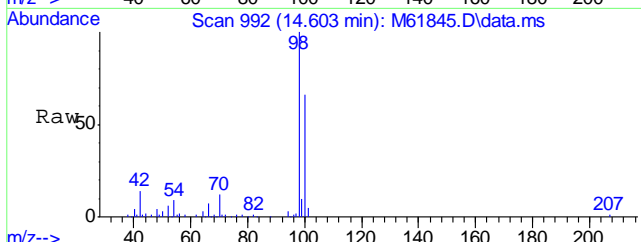
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.365 min Scan# 1159
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

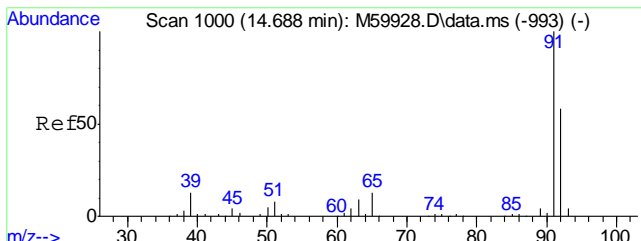
Tgt Ion	Resp	Lower	Upper
117	279960	100	
119	32.7	11.2	51.2



#56
 Toluene-d8
 Concen: 18.86 ppb
 RT: 14.603 min Scan# 992
 Delta R.T. -0.001 min
 Lab File: M61845.D
 Acq: 13 Jul 2016 7:29 pm

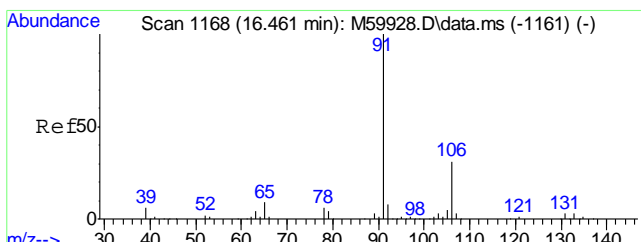
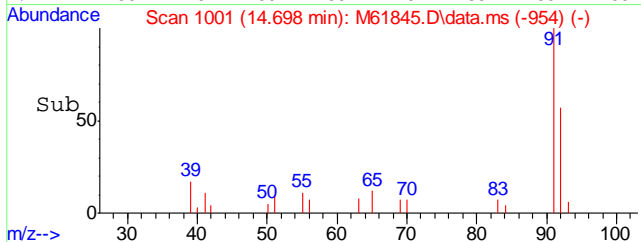
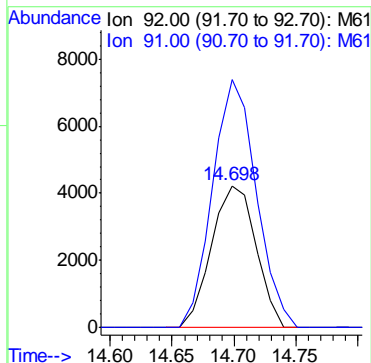
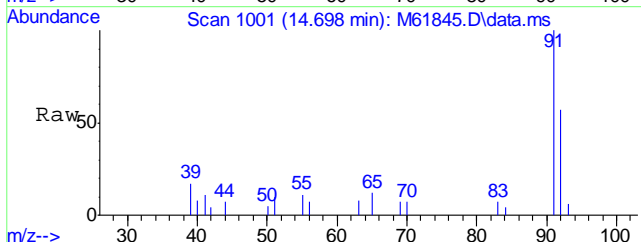
Tgt Ion	Resp	Lower	Upper
98	344609	100	
100	65.4	44.3	84.3





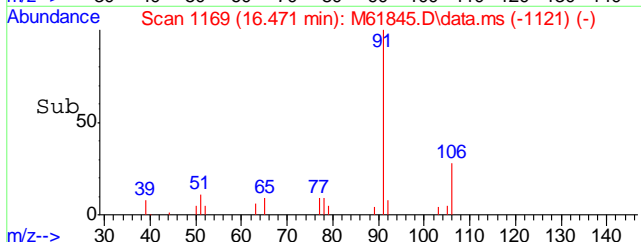
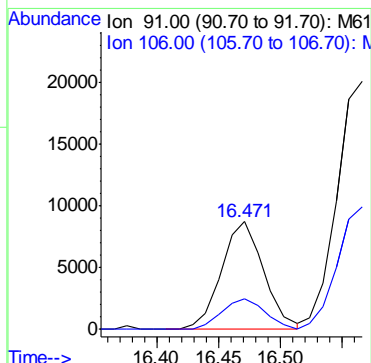
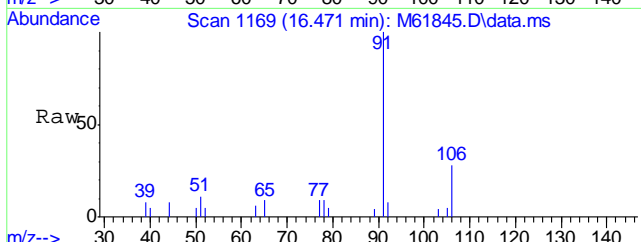
#57
Toluene
Concen: 0.69 ppb
RT: 14.698 min Scan# 1001
Delta R.T. -0.001 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

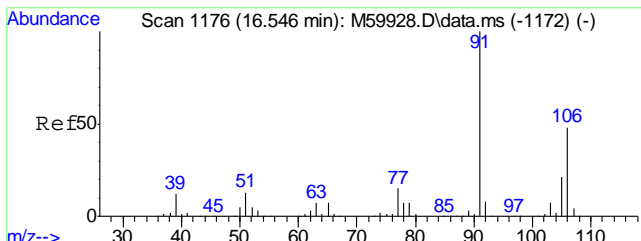
Tgt Ion: 92 Resp: 10590
Ion Ratio Lower Upper
92 100
91 172.4 150.5 190.5



#67
Ethyl Benzene
Concen: 0.72 ppb
RT: 16.471 min Scan# 1169
Delta R.T. 0.010 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

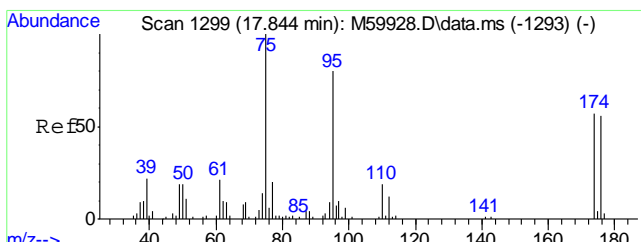
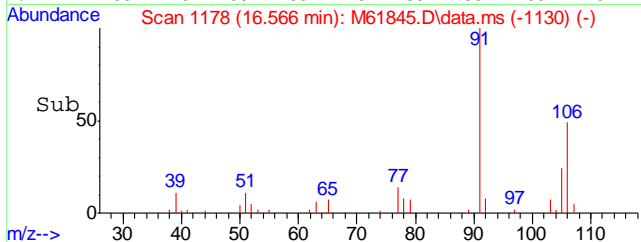
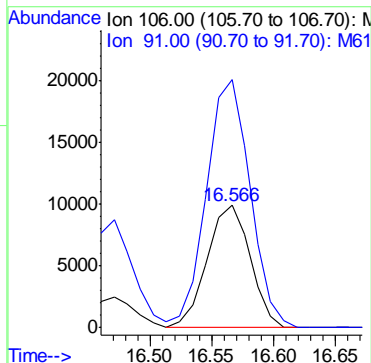
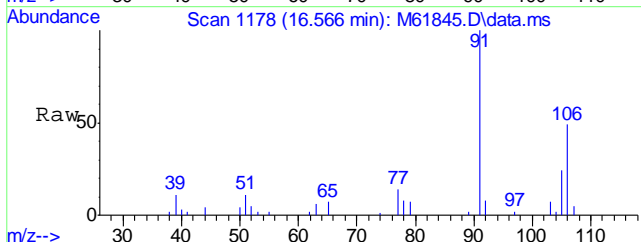
Tgt Ion: 91 Resp: 20910
Ion Ratio Lower Upper
91 100
106 29.2 10.2 50.2





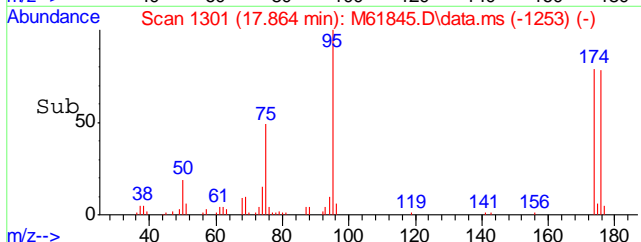
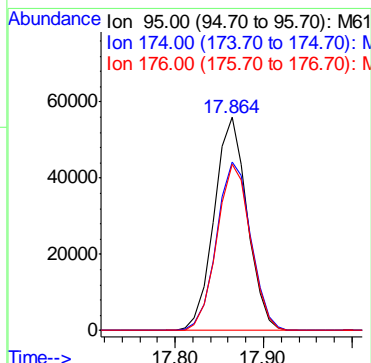
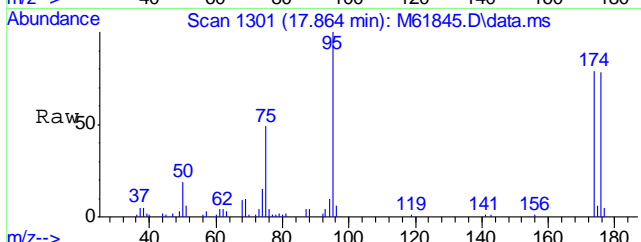
#68
Xylene, m+p
Concen: 2.28 ppb
RT: 16.566 min Scan# 1178
Delta R.T. 0.010 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

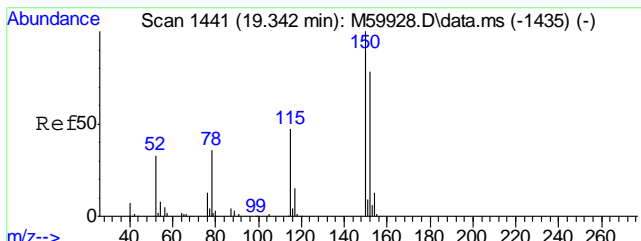
Tgt Ion	Resp	Lower	Upper
106	24160	100	
91	204.5	191.5	231.5



#74
4-Bromofluorobenzene
Concen: 20.24 ppb
RT: 17.864 min Scan# 1301
Delta R.T. 0.010 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

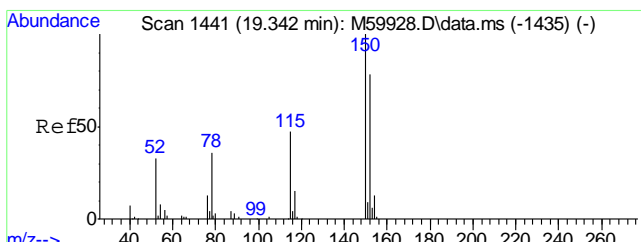
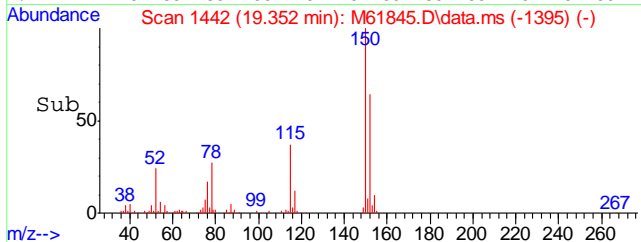
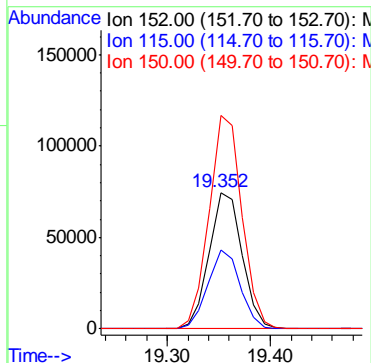
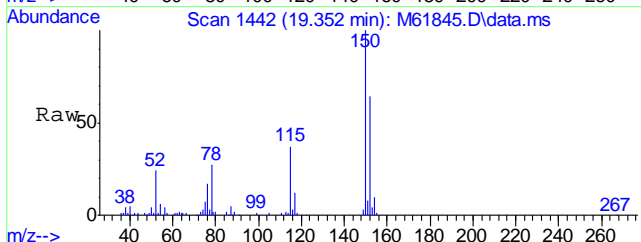
Tgt Ion	Resp	Lower	Upper
95	145358	100	
174	81.9	54.3	94.3
176	79.3	51.5	91.5





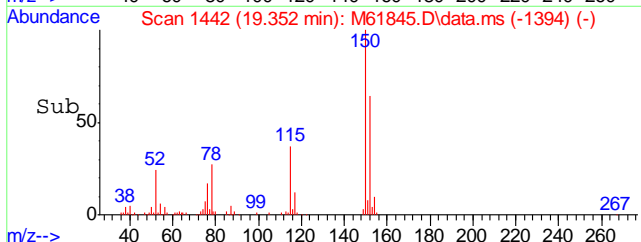
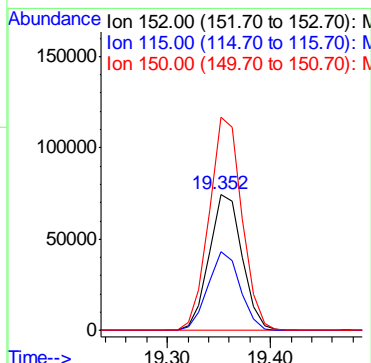
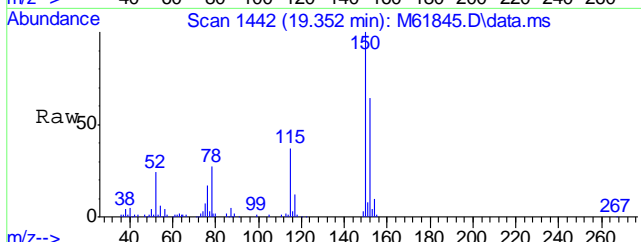
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.352 min Scan# 1442
Delta R.T. -0.001 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

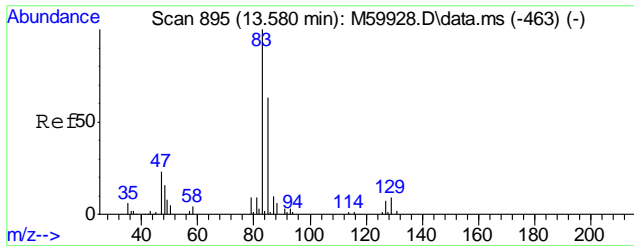
Tgt Ion	Resp	Lower	Upper
152	100		
115	56.7	40.9	80.9
150	155.8	178.6	218.6#



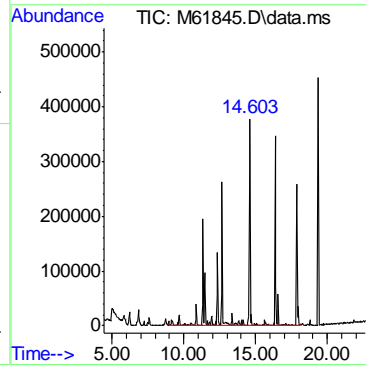
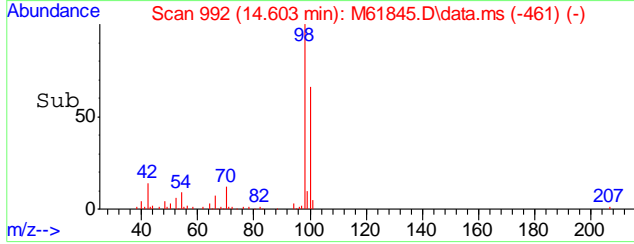
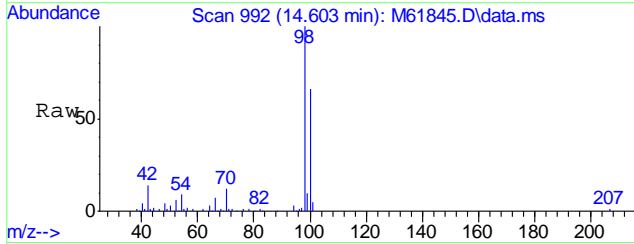
#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.352 min Scan# 1442
Delta R.T. 0.010 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	56.7	37.3	77.3
150	155.8	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 29.27 ppb m
RT: 14.603 min Scan# 992
Delta R.T. 1.053 min
Lab File: M61845.D
Acq: 13 Jul 2016 7:29 pm
Tgt Ion:TIC Resp: 5985185



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49986.D
Acq On : 12 Jul 2016 7:40 pm
Operator : johannat
Sample : C46435-18R
Misc : MS1912,VL1499,5.37,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 11:01:51 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

Table with columns: Compound, R.T., QIon, Response, Conc, Units, Dev(Min), Qvalue. Rows include Internal Standards (Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, 1,4-Dichlorobenzene-d4A), System Monitoring Compounds (Dibromofluoromethane, Toluene-d8, 4-Bromofluorobenzene), and Target Compounds (Methylene Chloride, Hexane, Cyclohexane, Benzene, Methylcyclohexane, Toluene, Ethyl Benzene, Xylene, m+p, 1,2,4-Trimethylbenzene, Naphthalene, TPH-GRO (C6-C10)).

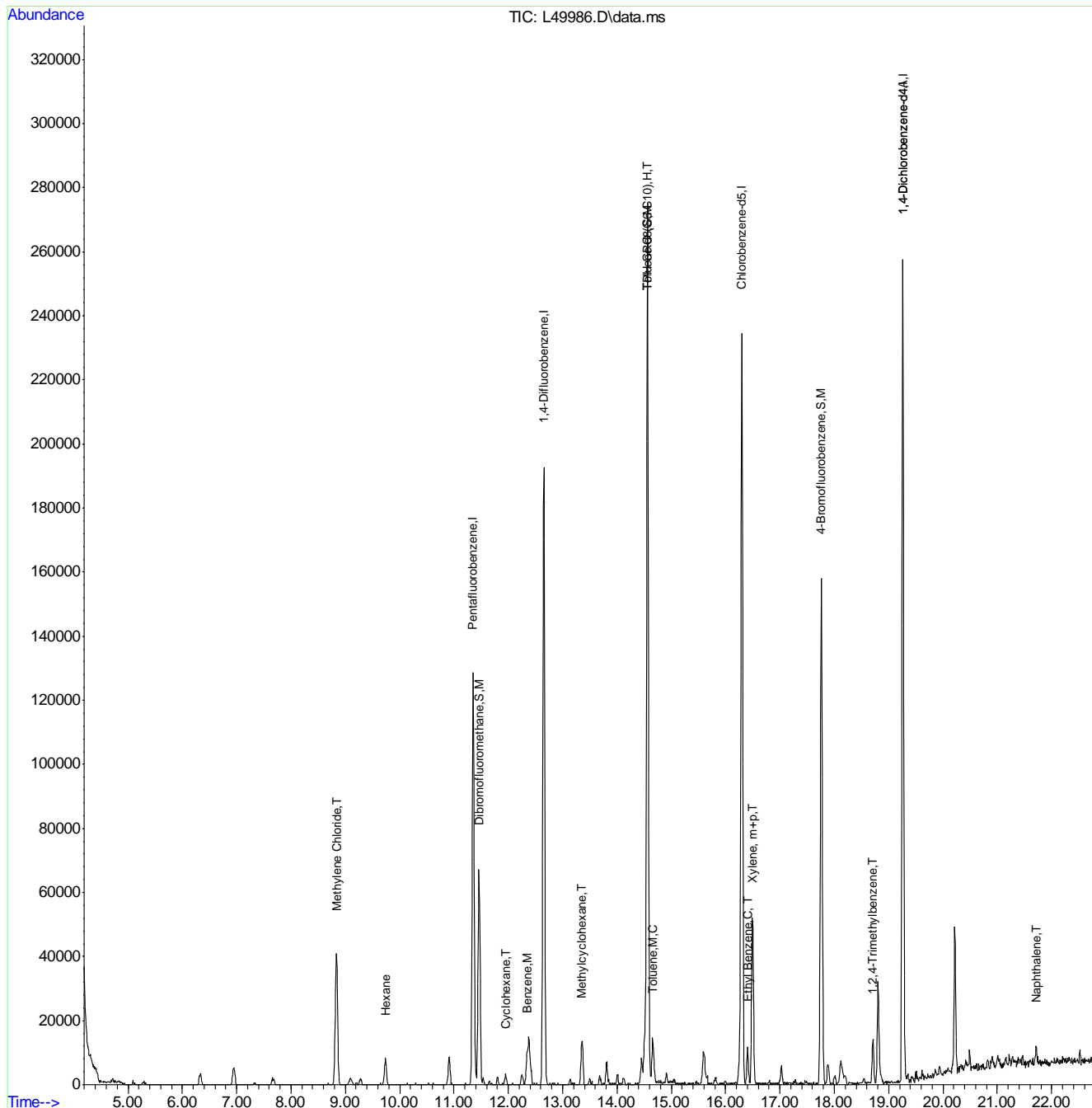
(#) = qualifier out of range (m) = manual integration (+) = signals summed

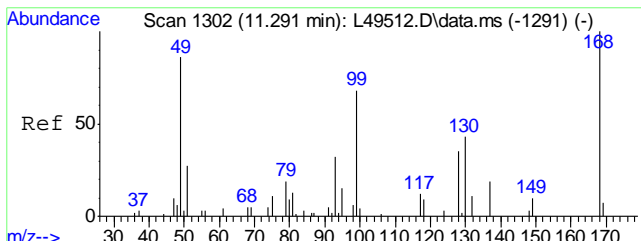
6.1.31 6

Quantitation Report (QT Reviewed)

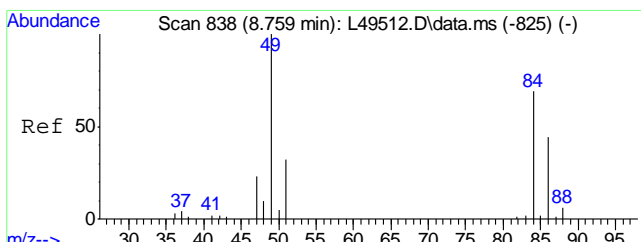
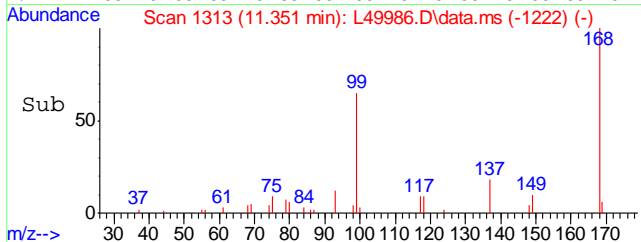
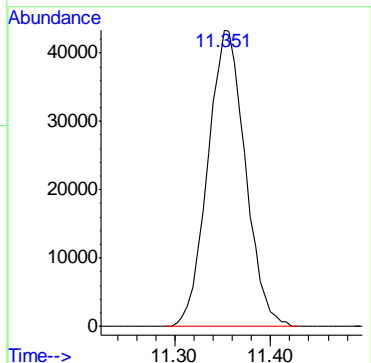
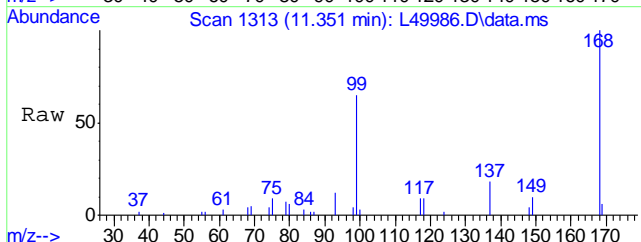
Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49986.D
 Acq On : 12 Jul 2016 7:40 pm
 Operator : johannat
 Sample : C46435-18R
 Misc : MS1912,VL1499,5.37,,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 11:01:51 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

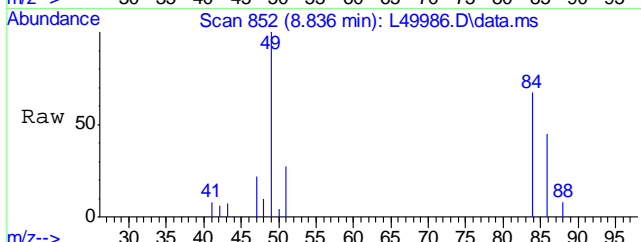




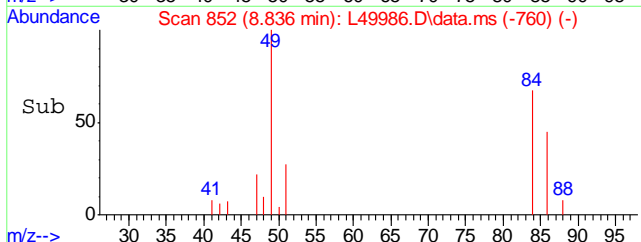
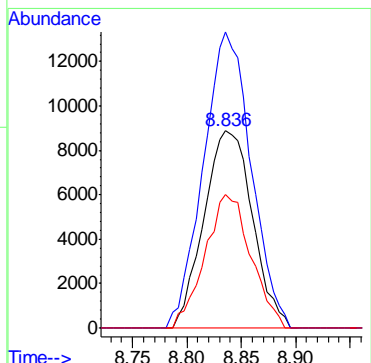
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm
 Tgt Ion:168 Resp: 1175405

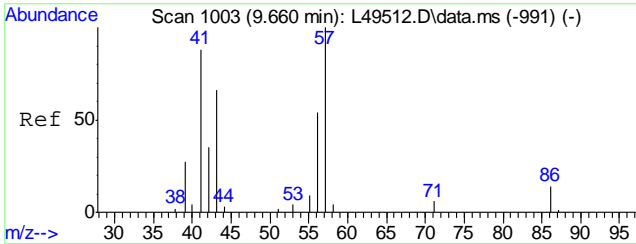


#19
 Methylene Chloride
 Concen: 7.14 ug/Kg
 RT: 8.836 min Scan# 852
 Delta R.T. 0.000 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm
 Tgt Ion: 84 Resp: 275721



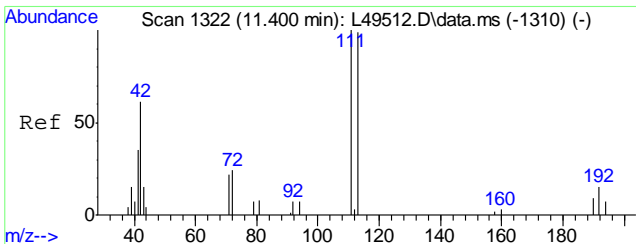
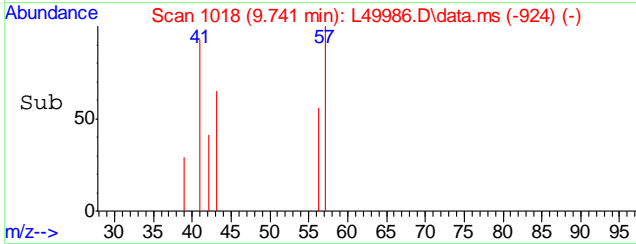
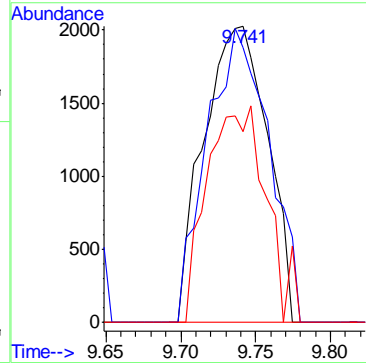
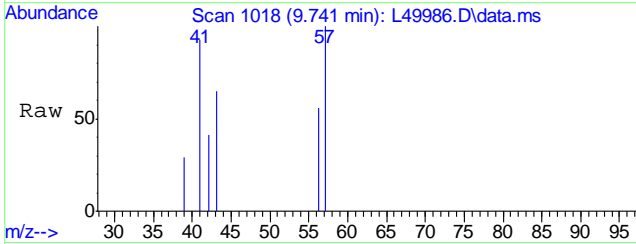
Ion	Ratio	Lower	Upper
84	100		
49	147.8	140.4	180.4
86	63.9	44.5	84.5





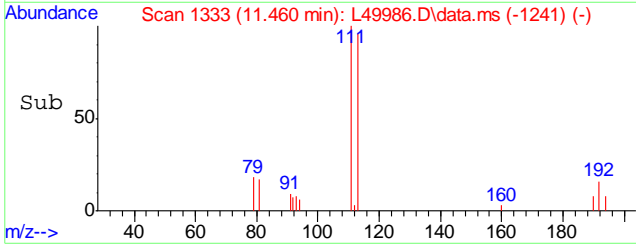
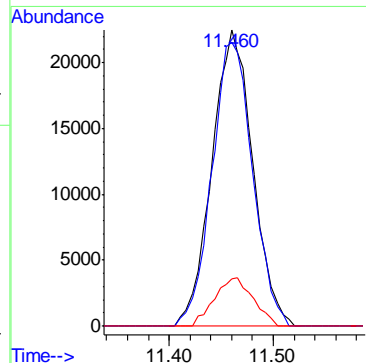
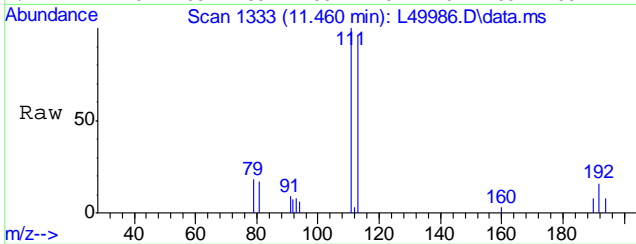
#24
Hexane
Concen: 1.62 ug/Kg
RT: 9.741 min Scan# 1018
Delta R.T. 0.011 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

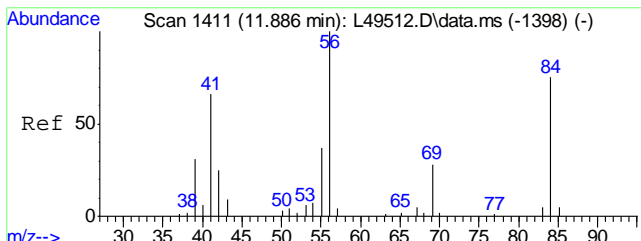
Tgt Ion	Resp	Lower	Upper
57	100		
41	96.5	73.8	110.8
43	67.9	56.6	84.8



#36
Dibromofluoromethane
Concen: 17.52 ug/Kg
RT: 11.460 min Scan# 1333
Delta R.T. 0.000 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

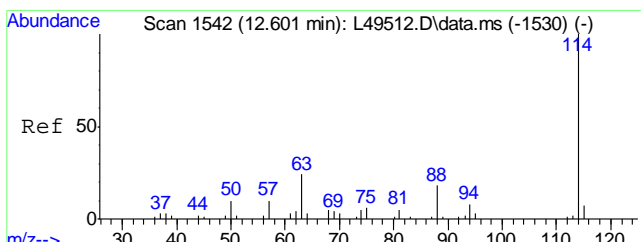
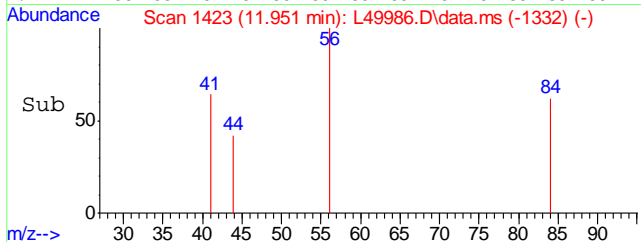
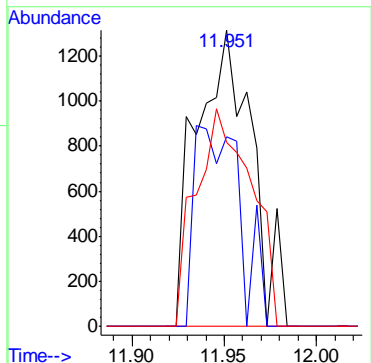
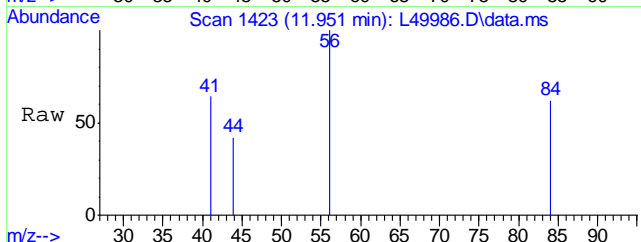
Tgt Ion	Resp	Lower	Upper
111	100		
113	95.8	78.6	118.6
192	15.5	0.0	34.1





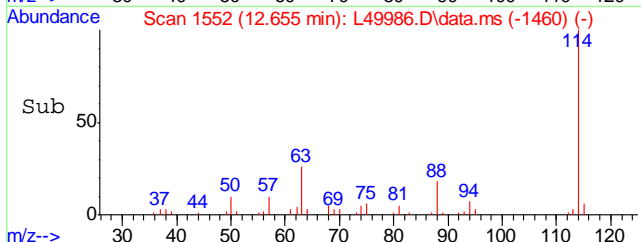
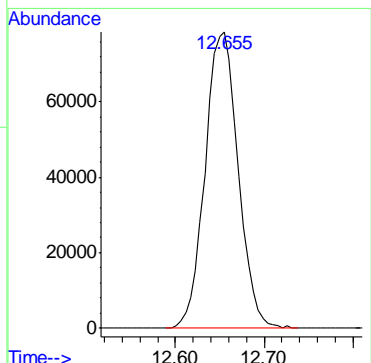
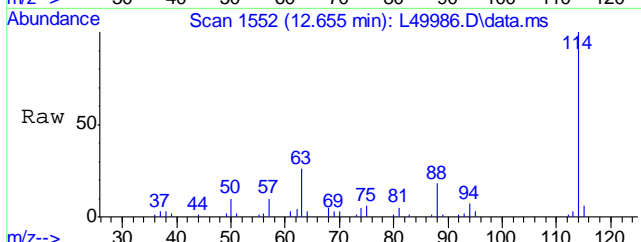
#38
Cyclohexane
Concen: 0.52 ug/Kg
RT: 11.951 min Scan# 1423
Delta R.T. -0.005 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

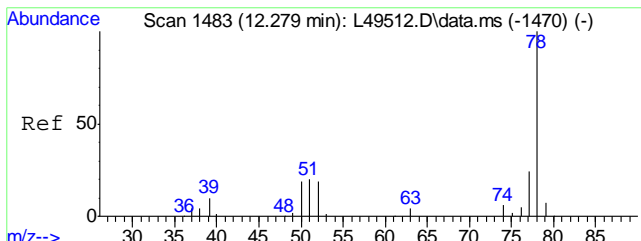
Tgt Ion	Resp	Lower	Upper
56	100		
41	55.9	53.7	80.5
84	73.6	60.5	90.7



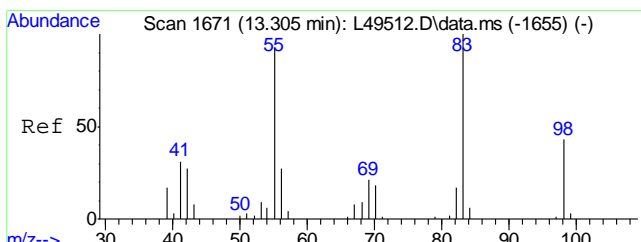
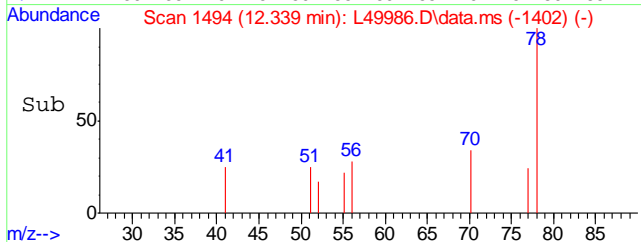
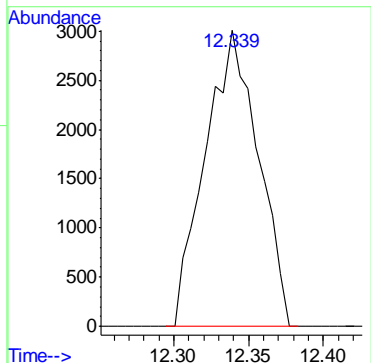
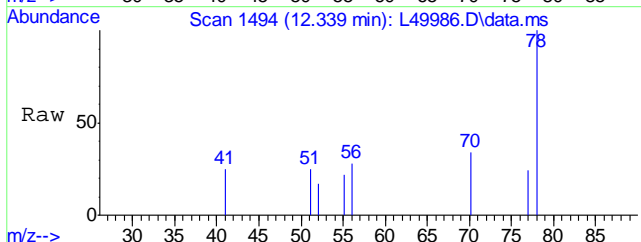
#40
1,4-Difluorobenzene
Concen: 20.00 ug/Kg
RT: 12.655 min Scan# 1552
Delta R.T. 0.000 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

Tgt Ion: 114 Resp: 2023954

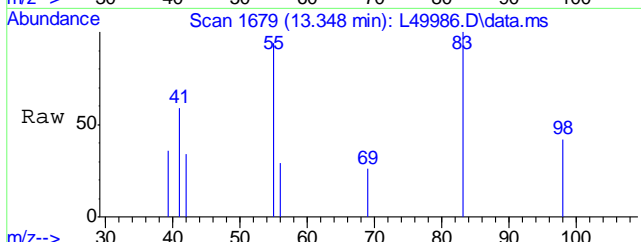




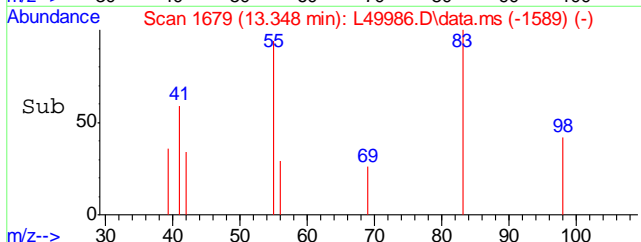
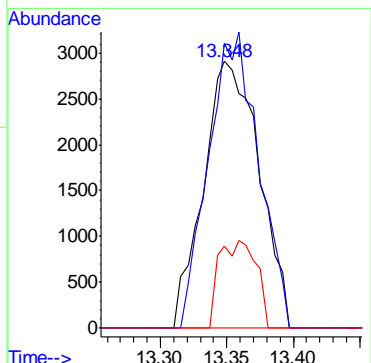
#45
Benzene
Concen: 0.49 ug/Kg
RT: 12.339 min Scan# 1494
Delta R.T. 0.000 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm
Tgt Ion: 78 Resp: 74242

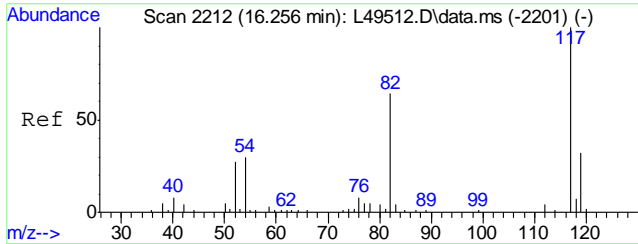


#48
Methylcyclohexane
Concen: 1.79 ug/Kg
RT: 13.348 min Scan# 1679
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm
Tgt Ion: 55 Resp: 84817



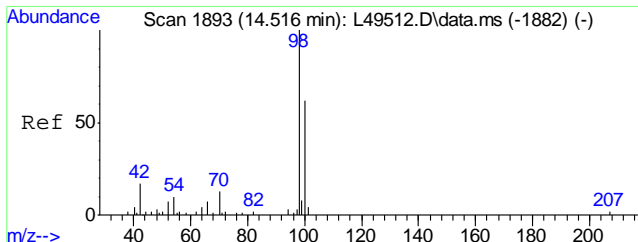
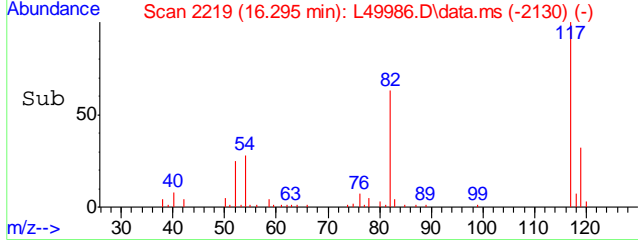
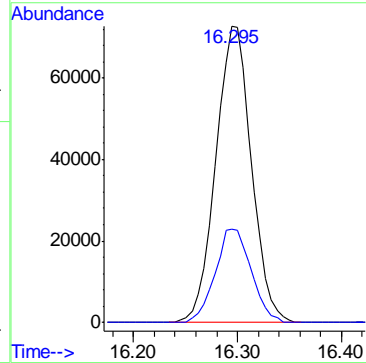
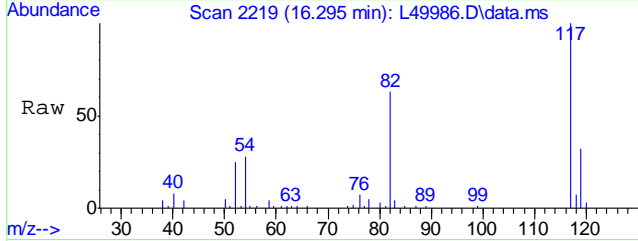
Ion	Ratio	Lower	Upper
55	100		
83	99.8	80.6	120.6
56	22.1	11.5	51.5





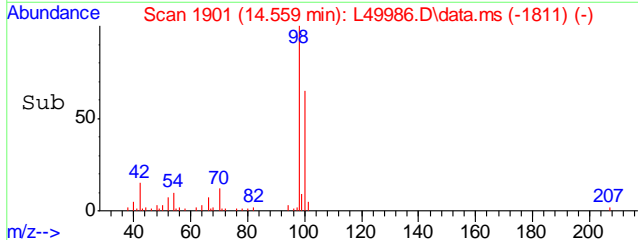
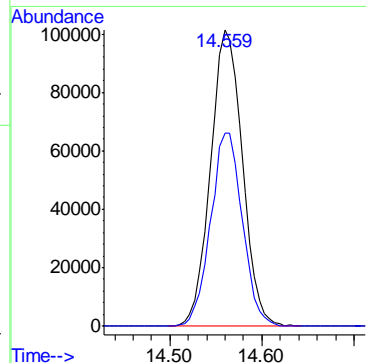
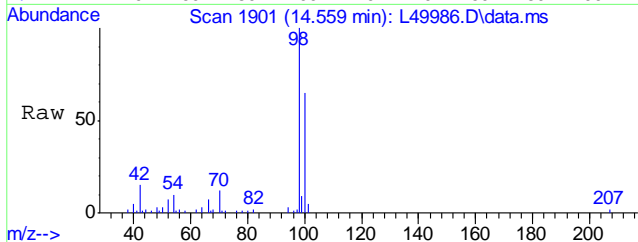
#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

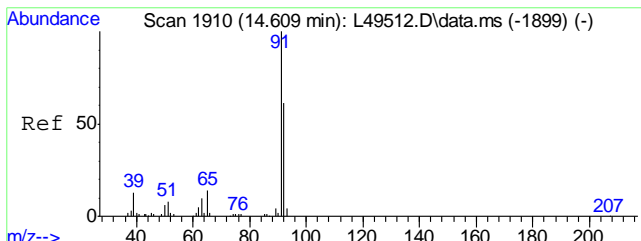
Tgt Ion: 117 Resp: 1741130
Ion Ratio Lower Upper
117 100
119 31.7 10.2 50.2



#56
Toluene-d8
Concen: 19.81 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

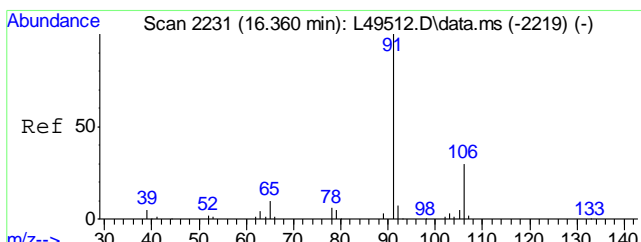
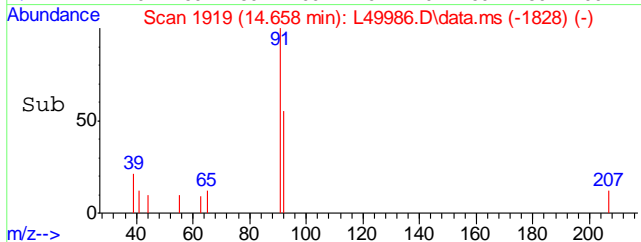
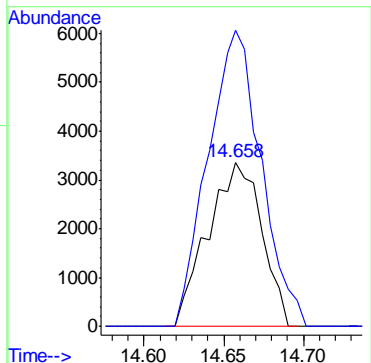
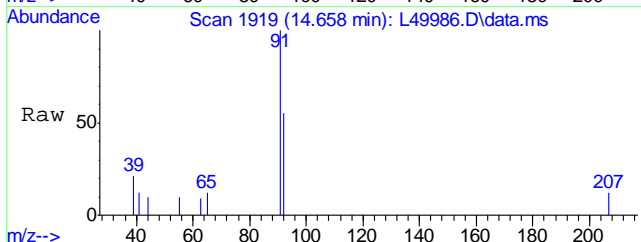
Tgt Ion: 98 Resp: 2436357
Ion Ratio Lower Upper
98 100
100 64.9 45.2 85.2





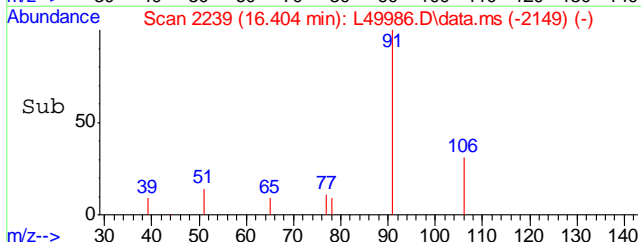
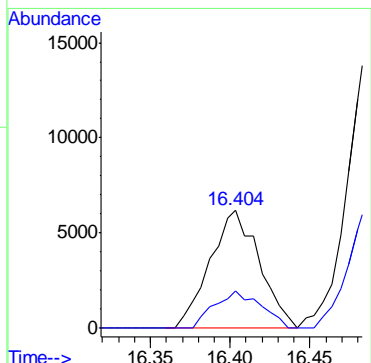
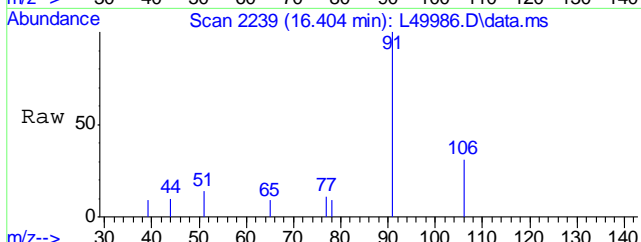
#57
Toluene
Concen: 0.91 ug/Kg
RT: 14.658 min Scan# 1919
Delta R.T. -0.005 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

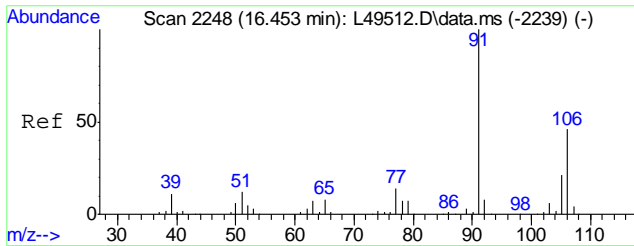
Tgt Ion:	92	Resp:	78884
Ion Ratio	Lower	Upper	
92	100		
91	178.2	149.2	189.2



#67
Ethyl Benzene
Concen: 0.79 ug/Kg
RT: 16.404 min Scan# 2239
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

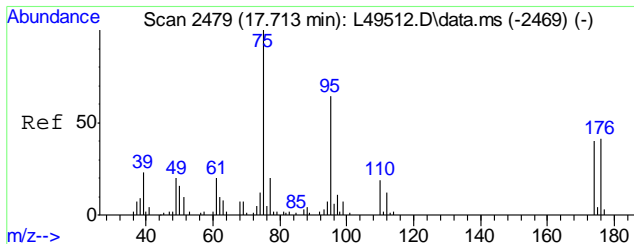
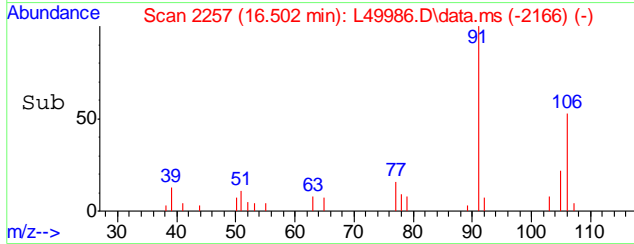
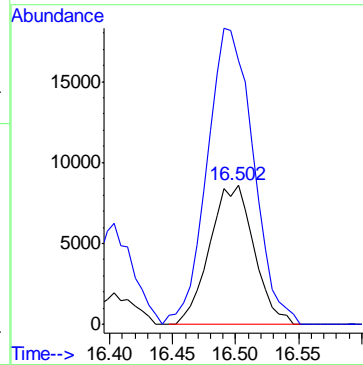
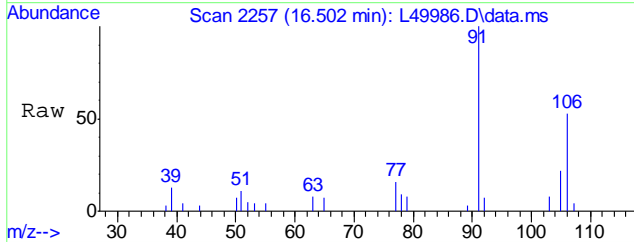
Tgt Ion:	91	Resp:	133006
Ion Ratio	Lower	Upper	
91	100		
106	29.3	8.6	48.6





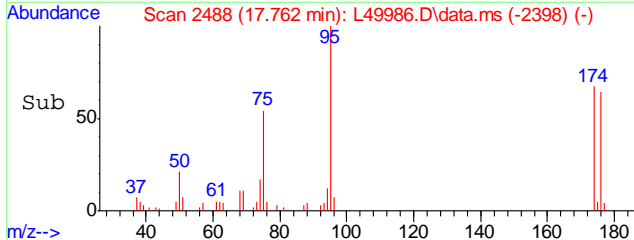
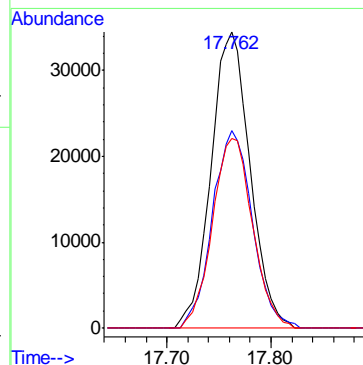
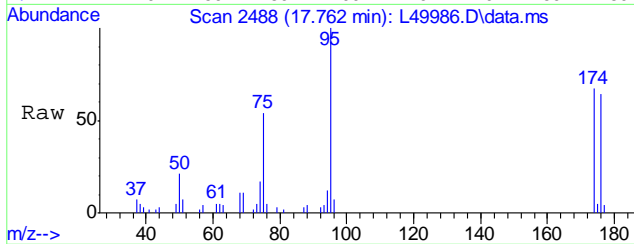
#68
Xylene, m+p
Concen: 3.52 ug/Kg
RT: 16.502 min Scan# 2257
Delta R.T. -0.005 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

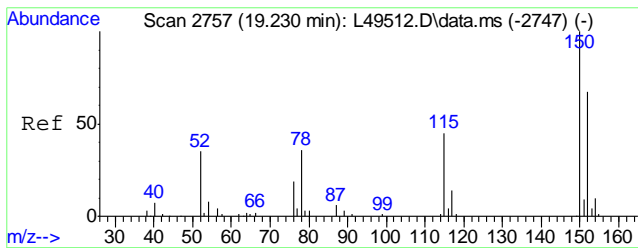
Tgt Ion	Resp	Lower	Upper
106	209791		
106	100		
91	221.5	202.1	242.1



#74
4-Bromofluorobenzene
Concen: 17.72 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

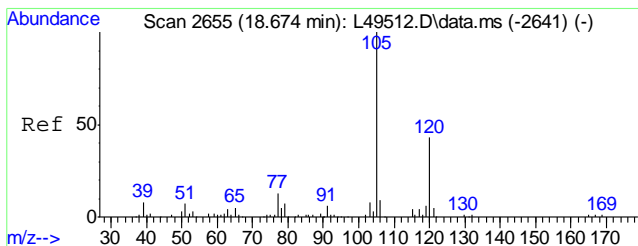
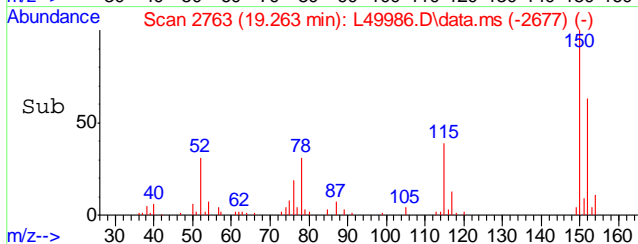
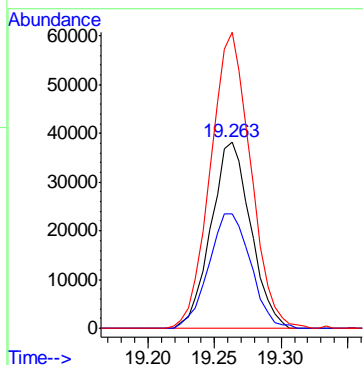
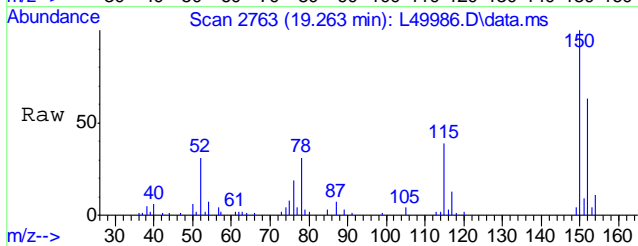
Tgt Ion	Resp	Lower	Upper
95	905510		
95	100		
174	68.1	41.6	81.6
176	65.9	39.6	79.6





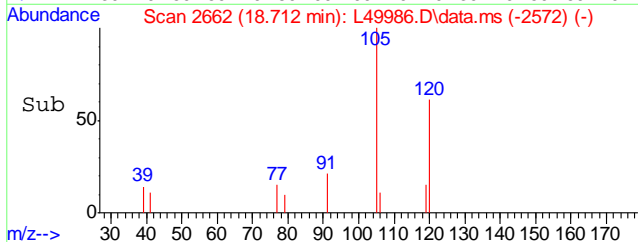
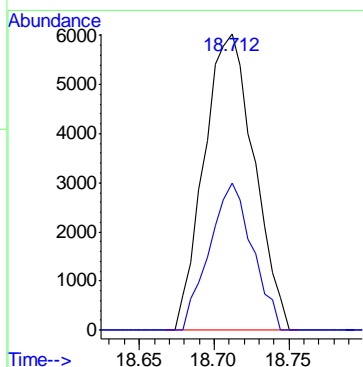
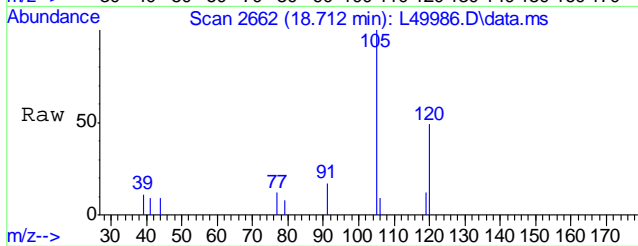
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm

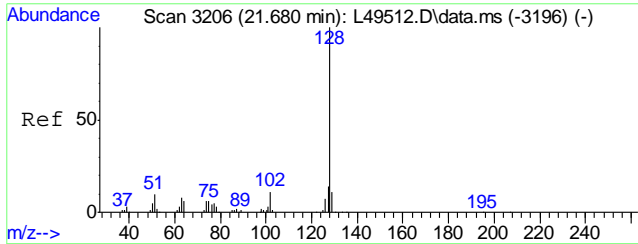
Tgt Ion	Resp	Lower	Upper
152	100		
115	64.9	48.8	88.8
150	160.7	174.3	214.3#



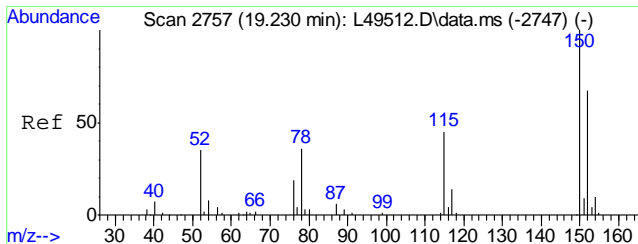
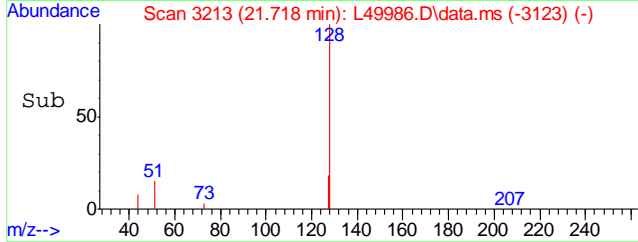
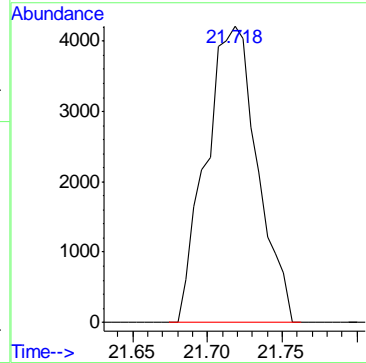
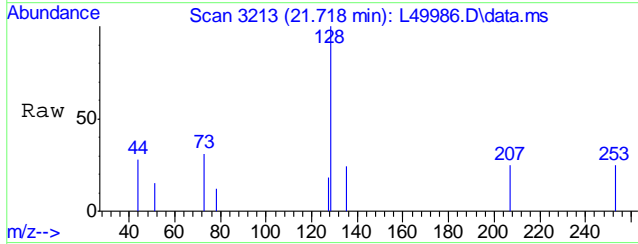
#86
 1,2,4-Trimethylbenzene
 Concen: 1.06 ug/Kg
 RT: 18.712 min Scan# 2662
 Delta R.T. -0.010 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	42.8	29.7	69.7





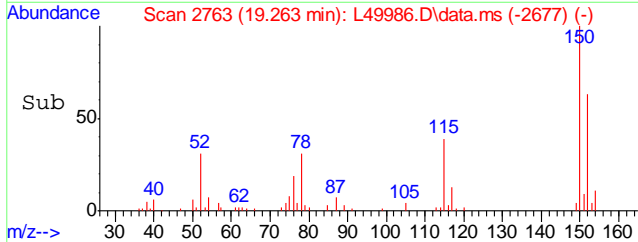
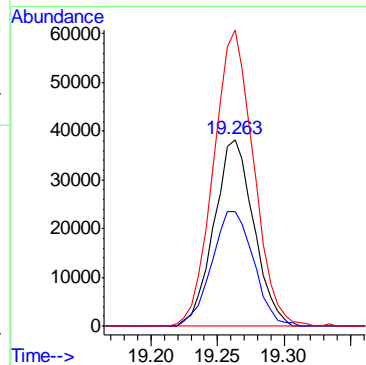
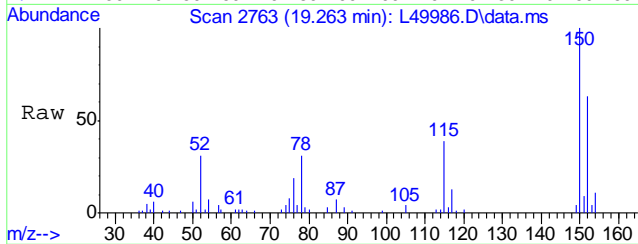
#97
Naphthalene
Concen: 0.83 ug/Kg
RT: 21.718 min Scan# 3213
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm
Tgt Ion:128 Resp: 100629

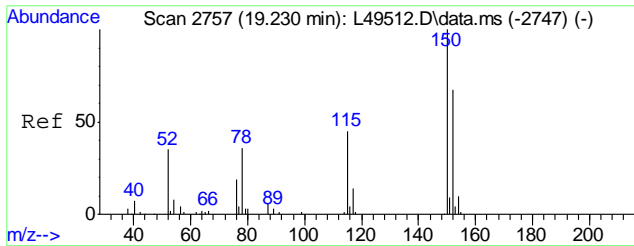


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

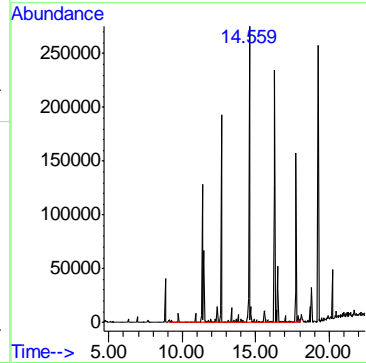
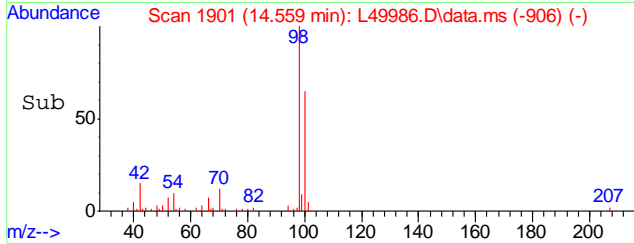
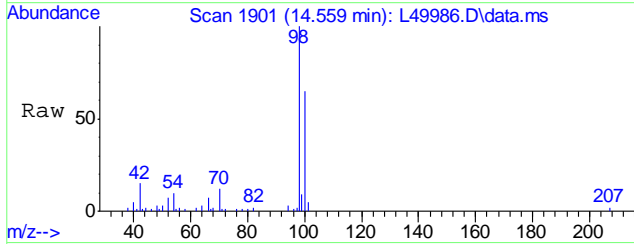
Tgt Ion:152 Resp: 797205

Ion	Ratio	Lower	Upper
152	100		
115	64.9	41.6	81.6
150	160.7	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 83.55 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm
Tgt Ion:TIC Resp:32699215



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49986.D
 Acq On : 12 Jul 2016 7:40 pm
 Operator : johannat
 Sample : C46435-18R
 Misc : MS1912,VL1499,5.37,,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 11:01:51 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

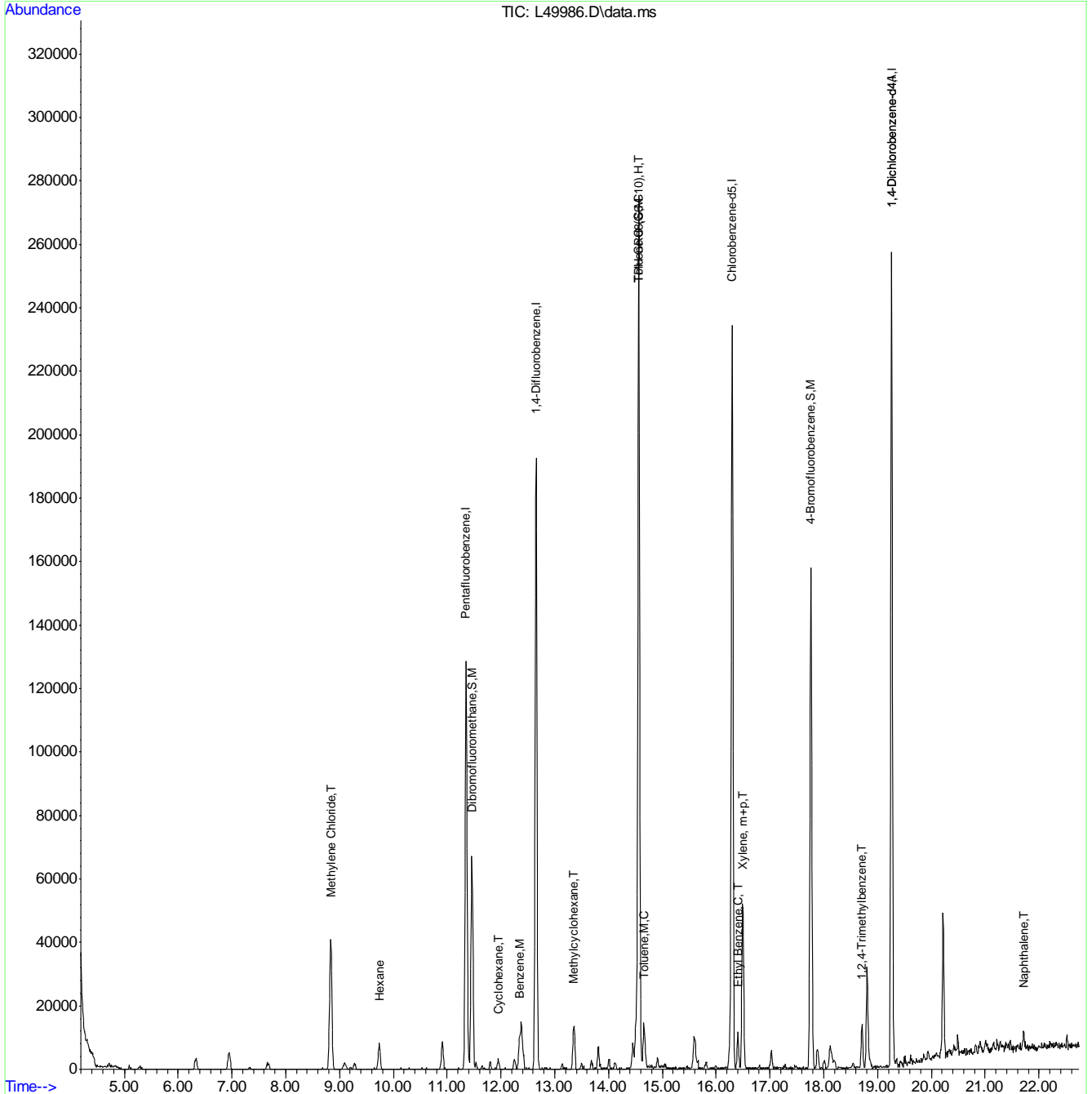
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	11.351	168	1175405	20.00	ug/Kg	0.00	
40) 1,4-Difluorobenzene	12.655	114	2023954	20.00	ug/Kg	0.00	
55) Chlorobenzene-d5	16.295	117	1741130	20.00	ug/Kg	-0.02	
77) 1,4-Dichlorobenzene-d4	19.263	152	797205	20.00	ug/Kg	-0.03	
99) 1,4-Dichlorobenzene-d4A	19.263	152	797205	20.00	ug/Kg	-0.03	
System Monitoring Compounds							
36) Dibromofluoromethane	11.460	111	616465	17.52	ug/Kg	0.00	
Spiked Amount	20.000	Range 72 - 140	Recovery	=	87.60%		
56) Toluene-d8	14.559	98	2436357	19.81	ug/Kg	-0.01	
Spiked Amount	20.000	Range 87 - 113	Recovery	=	99.05%		
74) 4-Bromofluorobenzene	17.762	95	905510	17.72	ug/Kg	-0.01	
Spiked Amount	20.000	Range 81 - 115	Recovery	=	88.60%		
Target Compounds							
							Qvalue
19) Methylene Chloride	8.836	84	275721	7.14	ug/Kg		93
24) Hexane	9.741	57	59985	1.62	ug/Kg		96
38) Cyclohexane	11.951	56	27484	0.52	ug/Kg		92
45) Benzene	12.339	78	74242	0.49	ug/Kg		100
48) Methylcyclohexane	13.348	55	84817	1.79	ug/Kg		95
57) Toluene	14.658	92	78884	0.91	ug/Kg		93
67) Ethyl Benzene	16.404	91	133006	0.79	ug/Kg		99
68) Xylene, m+p	16.502	106	209791	3.52	ug/Kg		100
86) 1,2,4-Trimethylbenzene	18.712	105	140061	1.06	ug/Kg		90
97) Naphthalene	21.718	128	100629	0.83	ug/Kg		100
100) TPH-GRO (C6-C10)	14.559	TIC	32699215m	83.55	ug/Kg		

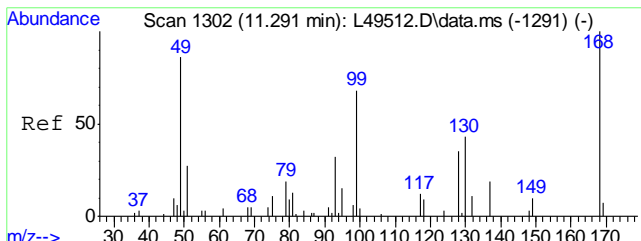
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

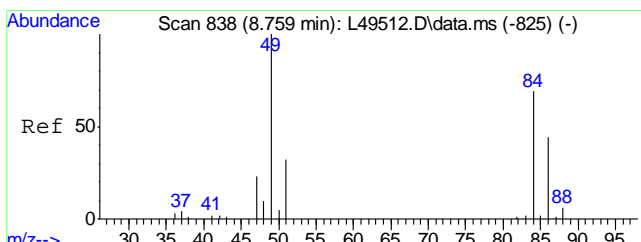
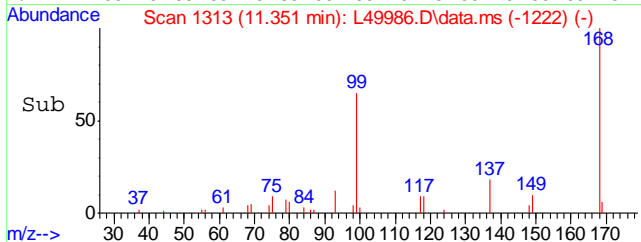
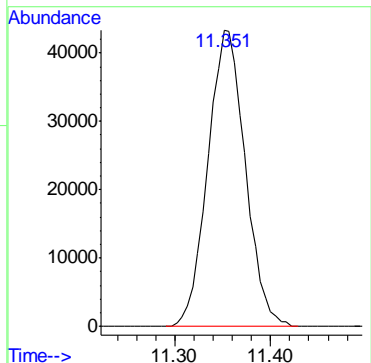
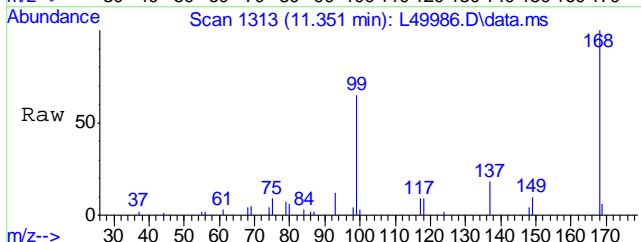
Data Path : C:\msdchem\1\DATA\L160712\
Data File : L49986.D
Acq On : 12 Jul 2016 7:40 pm
Operator : johannat
Sample : C46435-18R
Misc : MS1912,VL1499,5.37,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 11:01:51 2016
Quant Method : C:\msdchem\1\METHODS\VL1485S.M
Quant Title : EPA -8260B
QLast Update : Mon Jul 11 13:46:33 2016
Response via : Initial Calibration

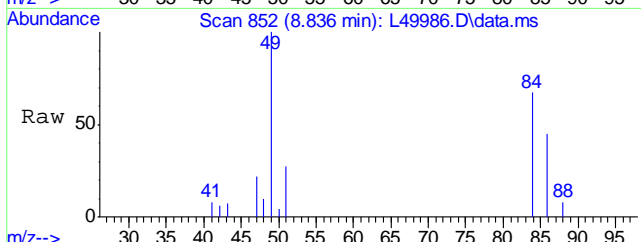




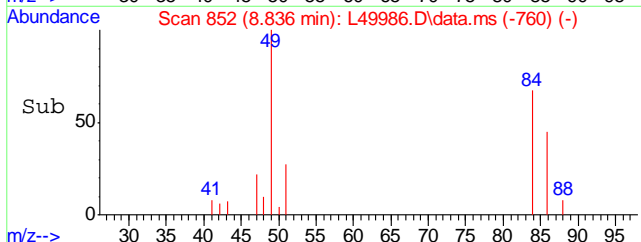
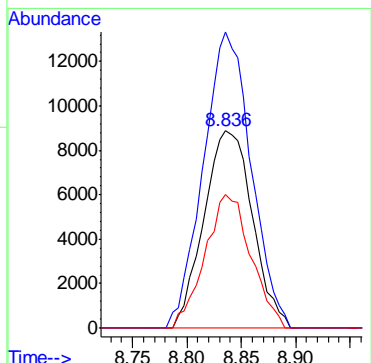
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm
 Tgt Ion:168 Resp: 1175405

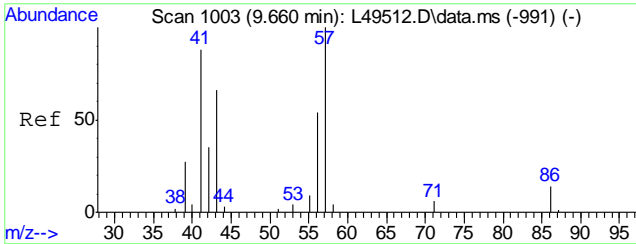


#19
 Methylene Chloride
 Concen: 7.14 ug/Kg
 RT: 8.836 min Scan# 852
 Delta R.T. 0.000 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm
 Tgt Ion: 84 Resp: 275721



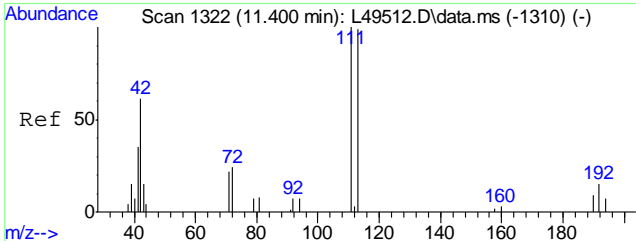
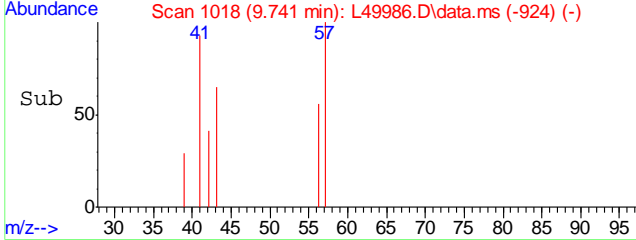
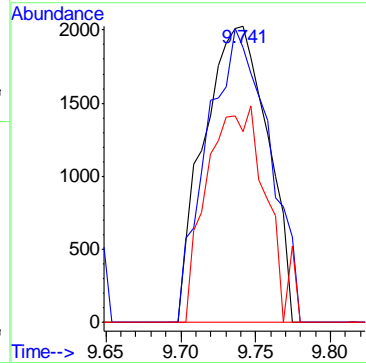
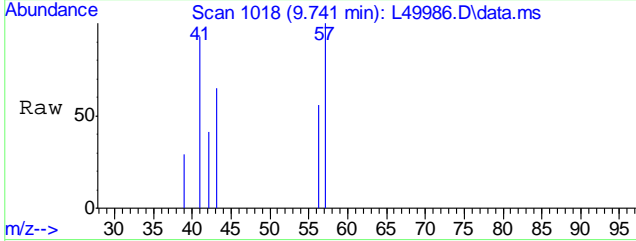
Ion	Ratio	Lower	Upper
84	100		
49	147.8	140.4	180.4
86	63.9	44.5	84.5





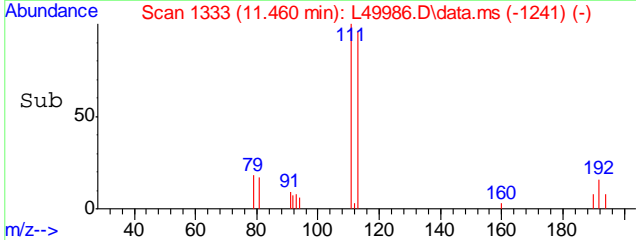
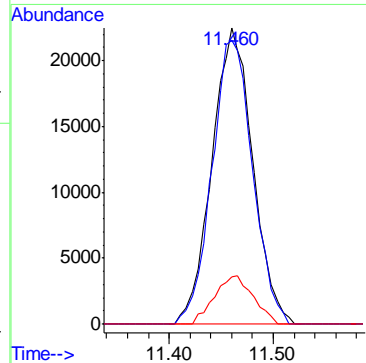
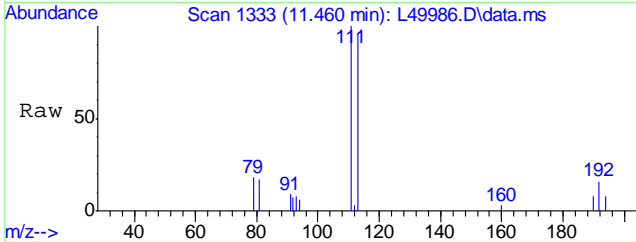
#24
Hexane
Concen: 1.62 ug/Kg
RT: 9.741 min Scan# 1018
Delta R.T. 0.011 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

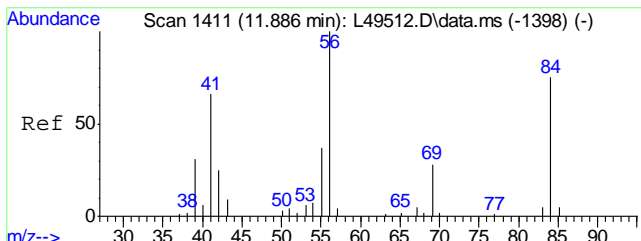
Tgt Ion	Resp	Lower	Upper
57	59985		
57	100		
41	96.5	73.8	110.8
43	67.9	56.6	84.8



#36
Dibromofluoromethane
Concen: 17.52 ug/Kg
RT: 11.460 min Scan# 1333
Delta R.T. 0.000 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

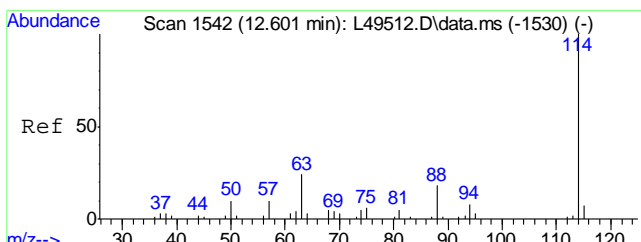
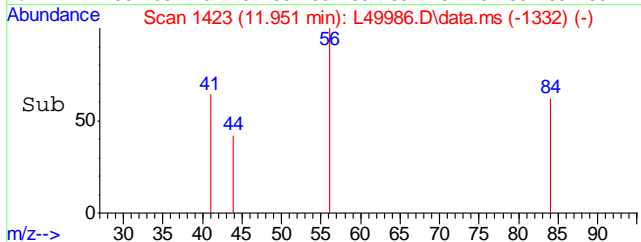
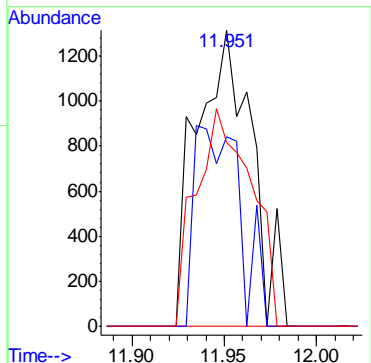
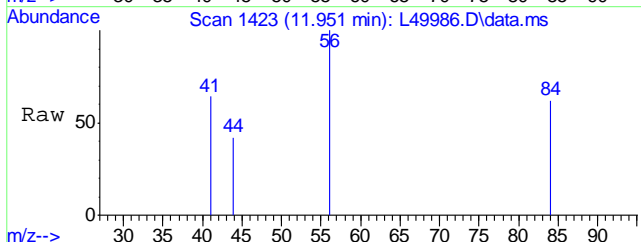
Tgt Ion	Resp	Lower	Upper
111	616465		
111	100		
113	95.8	78.6	118.6
192	15.5	0.0	34.1





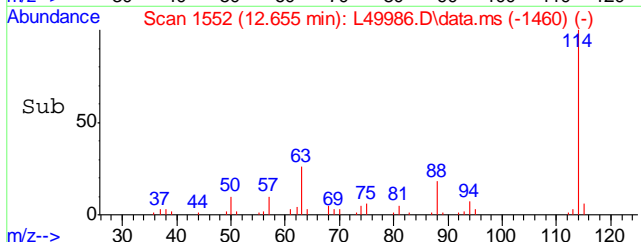
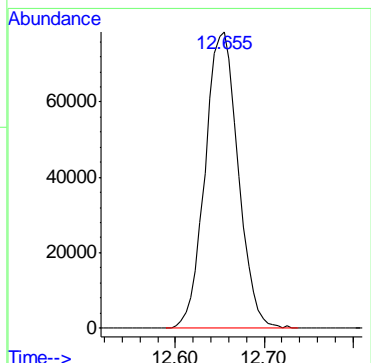
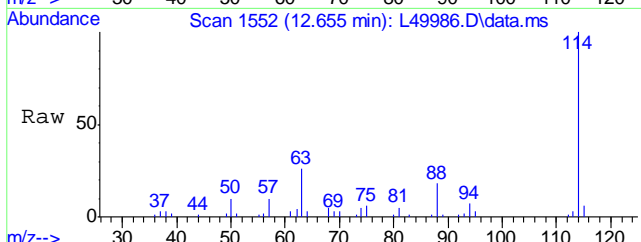
#38
Cyclohexane
Concen: 0.52 ug/Kg
RT: 11.951 min Scan# 1423
Delta R.T. -0.005 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

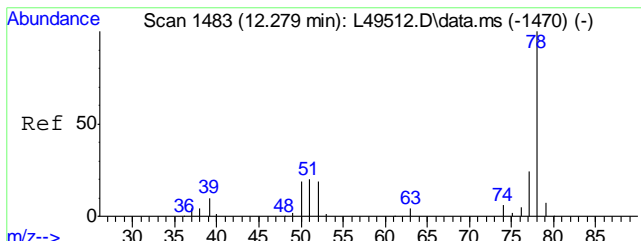
Tgt Ion	Resp	Lower	Upper
56	27484		
41	55.9	53.7	80.5
84	73.6	60.5	90.7



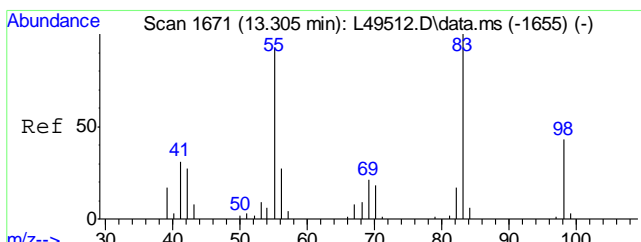
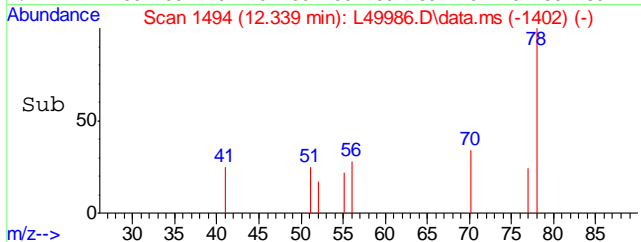
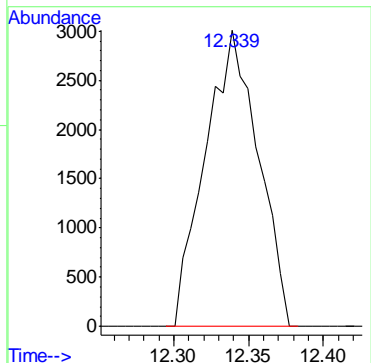
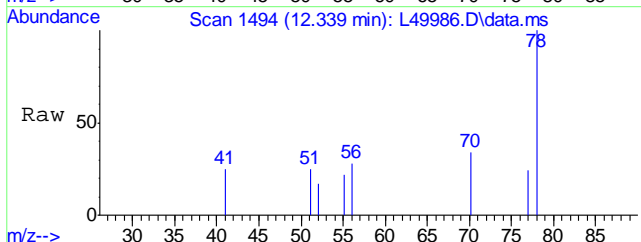
#40
1,4-Difluorobenzene
Concen: 20.00 ug/Kg
RT: 12.655 min Scan# 1552
Delta R.T. 0.000 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

Tgt Ion: 114 Resp: 2023954





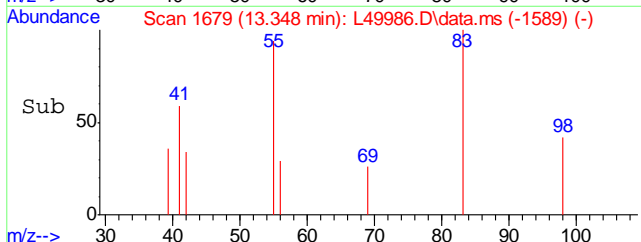
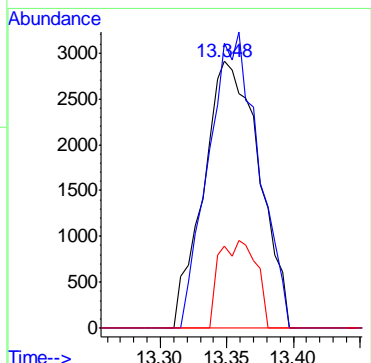
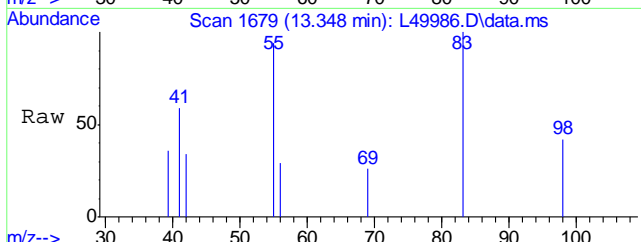
#45
Benzene
Concen: 0.49 ug/Kg
RT: 12.339 min Scan# 1494
Delta R.T. 0.000 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm
Tgt Ion: 78 Resp: 74242

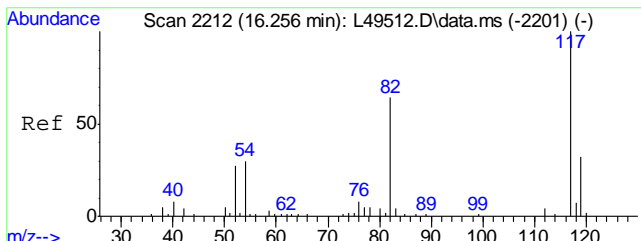


#48
Methylcyclohexane
Concen: 1.79 ug/Kg
RT: 13.348 min Scan# 1679
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

Tgt Ion: 55 Resp: 84817

Ion	Ratio	Lower	Upper
55	100		
83	99.8	80.6	120.6
56	22.1	11.5	51.5

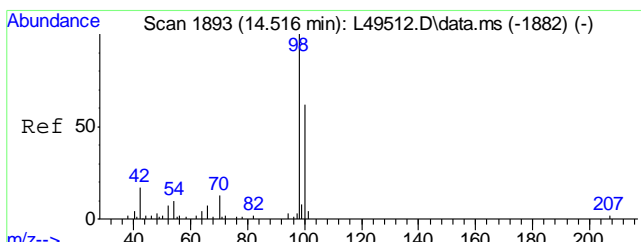
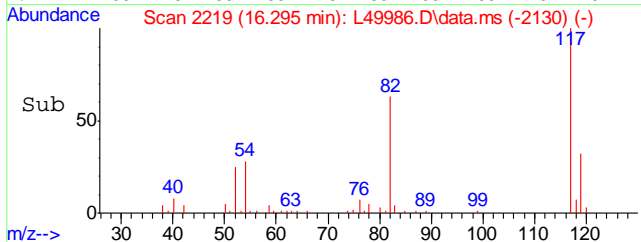
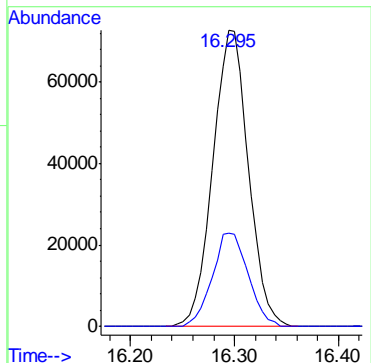
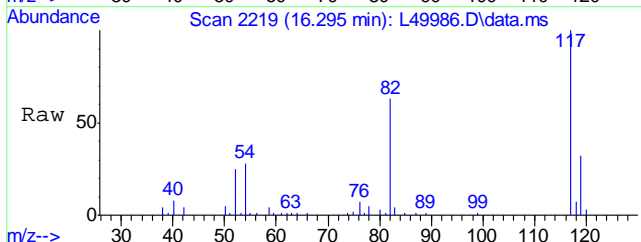




#55
Chlorobenzene-d5
Concen: 20.00 ug/Kg
RT: 16.295 min Scan# 2219
Delta R.T. -0.016 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

Tgt Ion: 117 Resp: 1741130

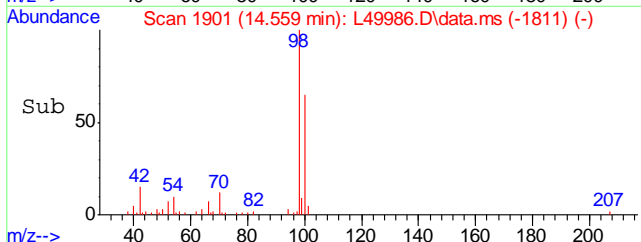
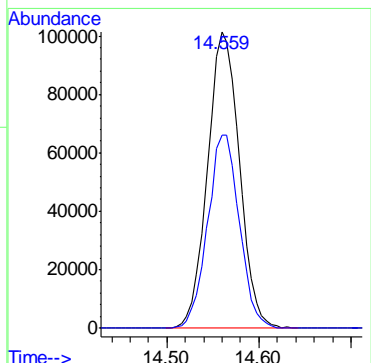
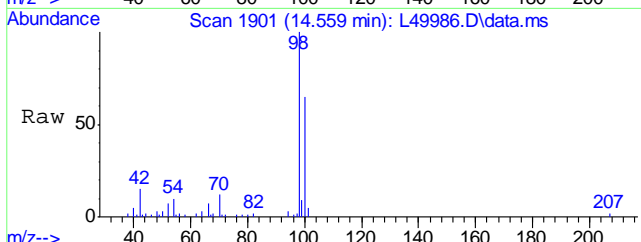
Ion	Ratio	Lower	Upper
117	100		
119	31.7	10.2	50.2

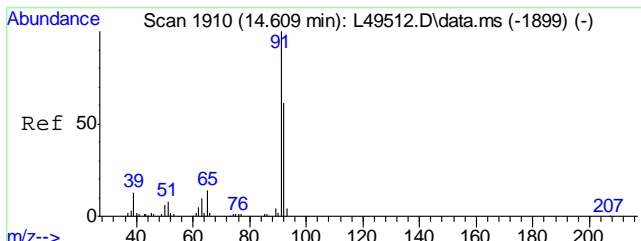


#56
Toluene-d8
Concen: 19.81 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

Tgt Ion: 98 Resp: 2436357

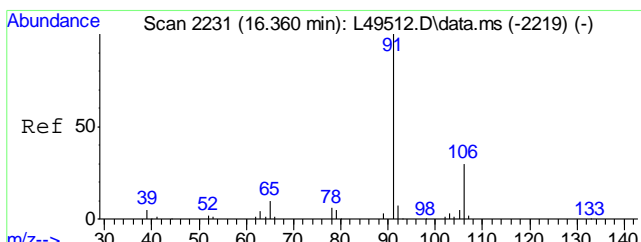
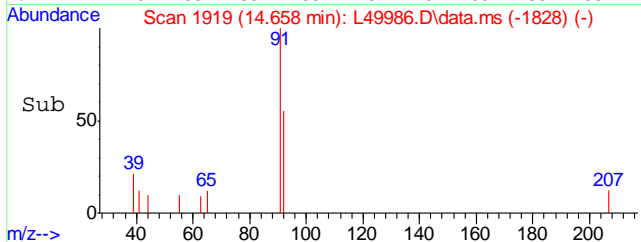
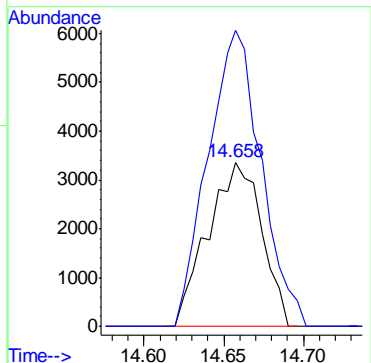
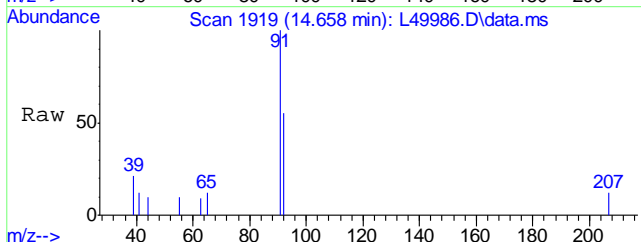
Ion	Ratio	Lower	Upper
98	100		
100	64.9	45.2	85.2





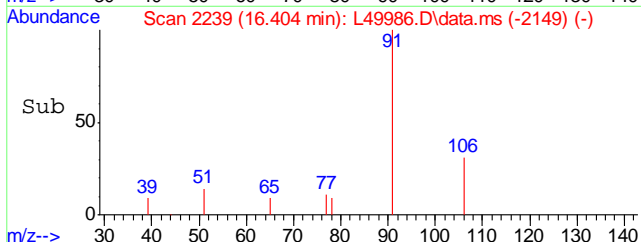
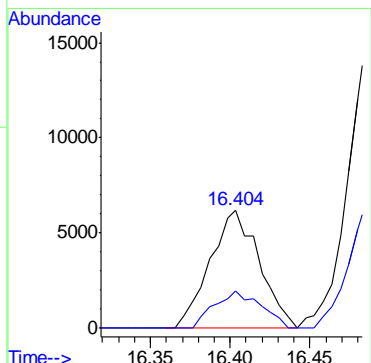
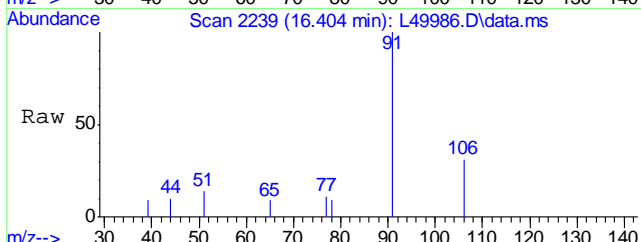
#57
Toluene
Concen: 0.91 ug/Kg
RT: 14.658 min Scan# 1919
Delta R.T. -0.005 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

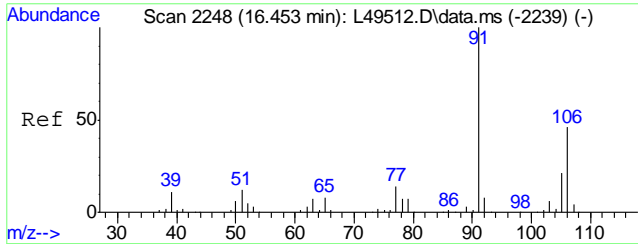
Tgt Ion: 92 Resp: 78884
Ion Ratio Lower Upper
92 100
91 178.2 149.2 189.2



#67
Ethyl Benzene
Concen: 0.79 ug/Kg
RT: 16.404 min Scan# 2239
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

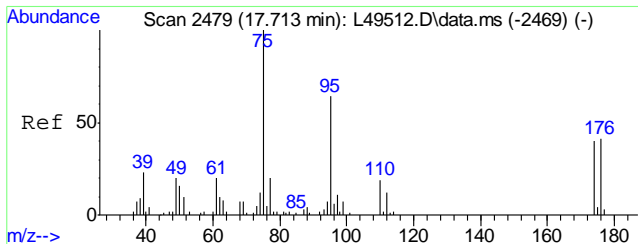
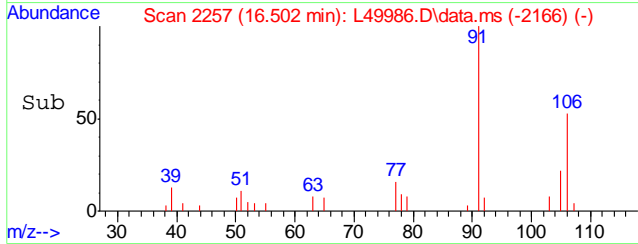
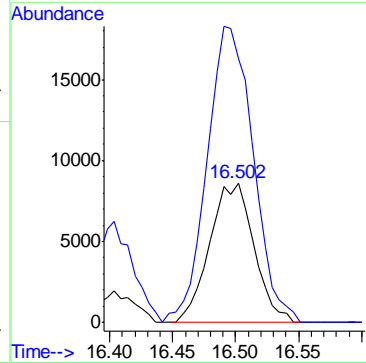
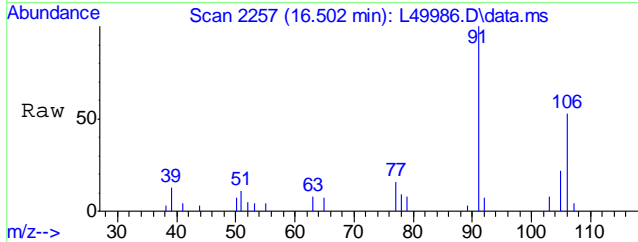
Tgt Ion: 91 Resp: 133006
Ion Ratio Lower Upper
91 100
106 29.3 8.6 48.6





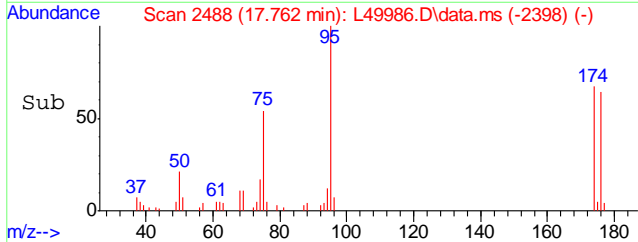
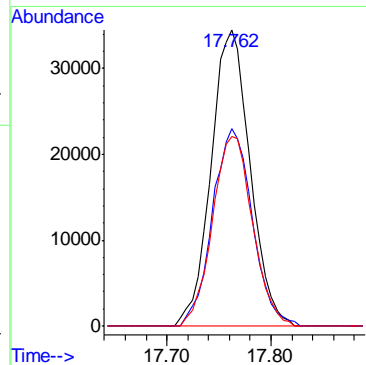
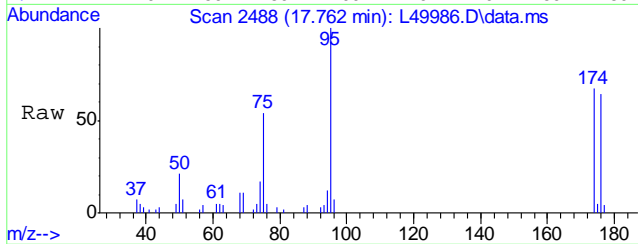
#68
Xylene, m+p
Concen: 3.52 ug/Kg
RT: 16.502 min Scan# 2257
Delta R.T. -0.005 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

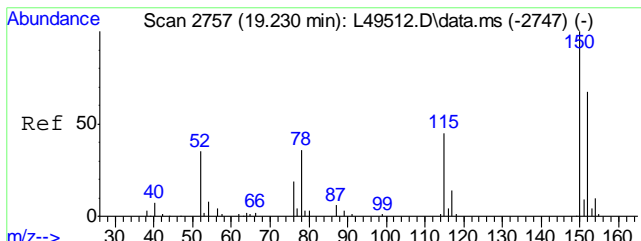
Tgt Ion	Resp	Lower	Upper
106	209791		
106	100		
91	221.5	202.1	242.1



#74
4-Bromofluorobenzene
Concen: 17.72 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

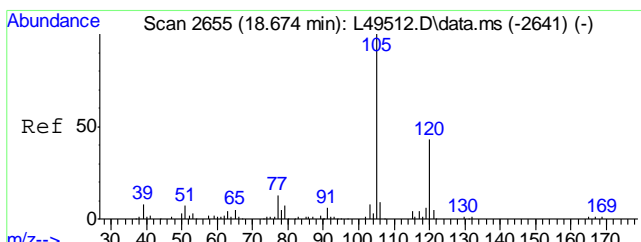
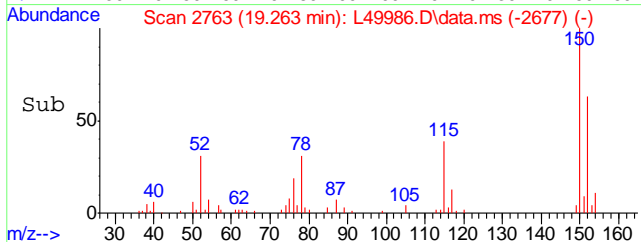
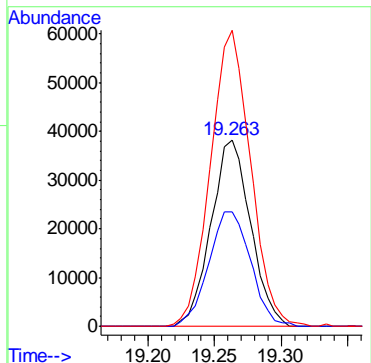
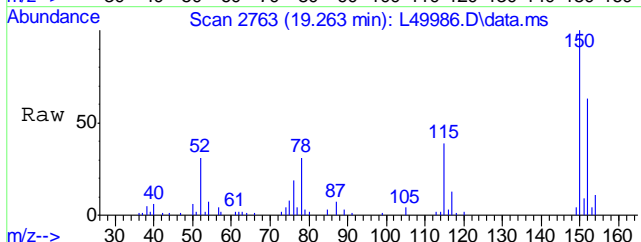
Tgt Ion	Resp	Lower	Upper
95	905510		
95	100		
174	68.1	41.6	81.6
176	65.9	39.6	79.6





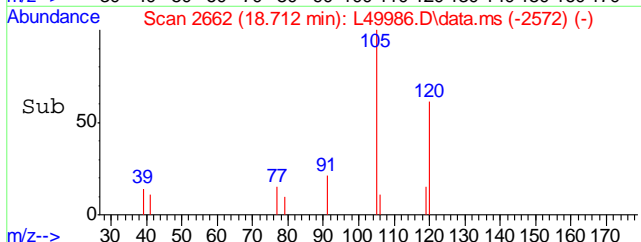
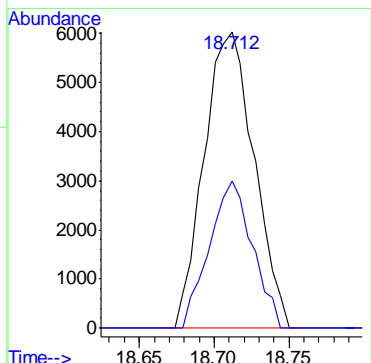
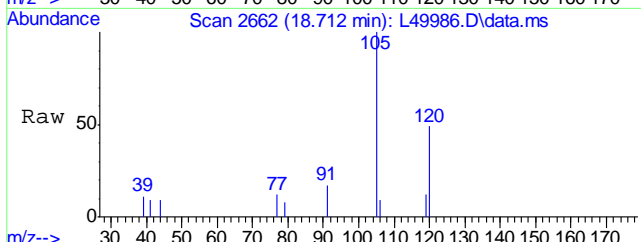
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm

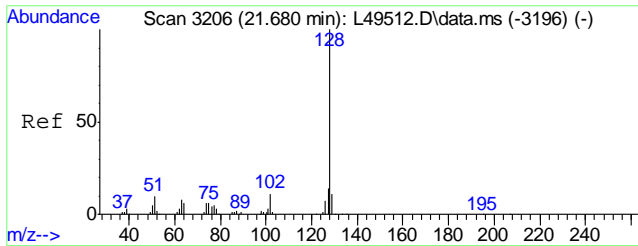
Tgt Ion	Resp	Lower	Upper
152	797205		
152	100		
115	64.9	48.8	88.8
150	160.7	174.3	214.3#



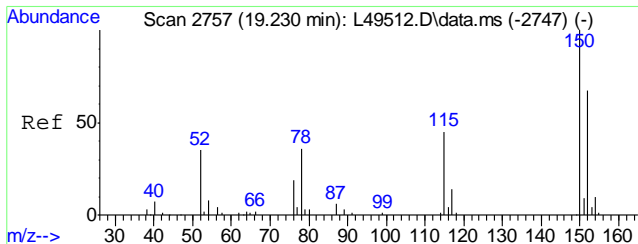
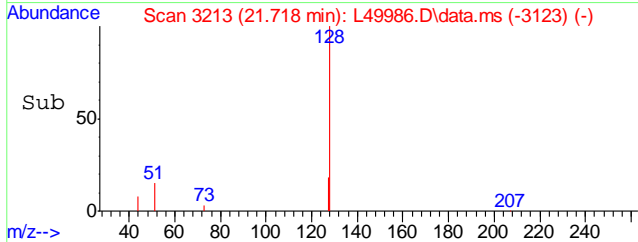
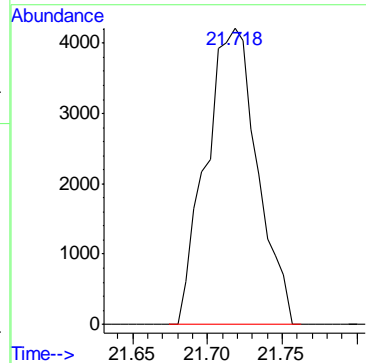
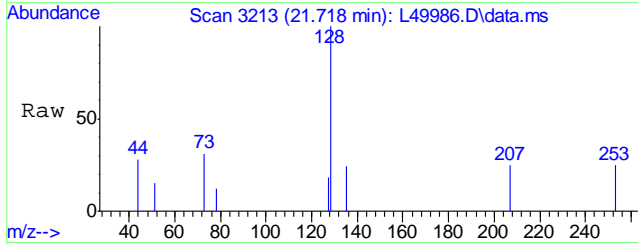
#86
 1,2,4-Trimethylbenzene
 Concen: 1.06 ug/Kg
 RT: 18.712 min Scan# 2662
 Delta R.T. -0.010 min
 Lab File: L49986.D
 Acq: 12 Jul 2016 7:40 pm

Tgt Ion	Resp	Lower	Upper
105	140061		
105	100		
120	42.8	29.7	69.7





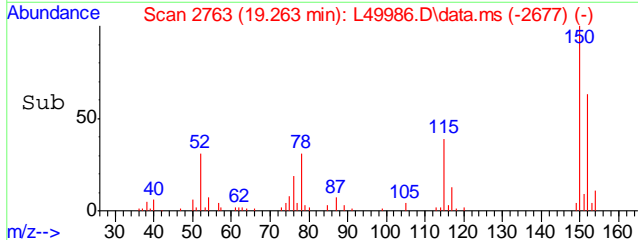
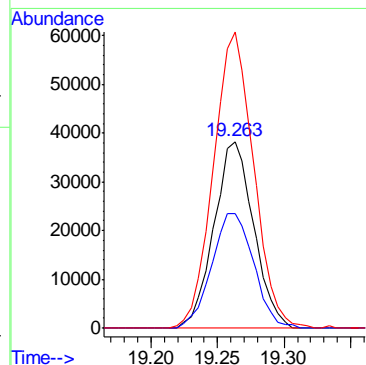
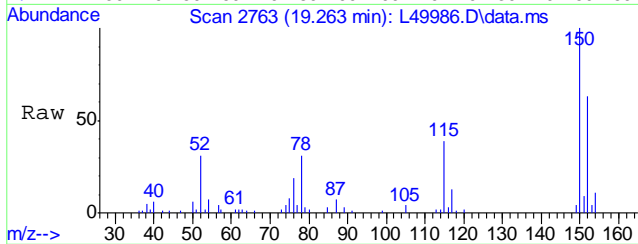
#97
Naphthalene
Concen: 0.83 ug/Kg
RT: 21.718 min Scan# 3213
Delta R.T. -0.010 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm
Tgt Ion:128 Resp: 100629

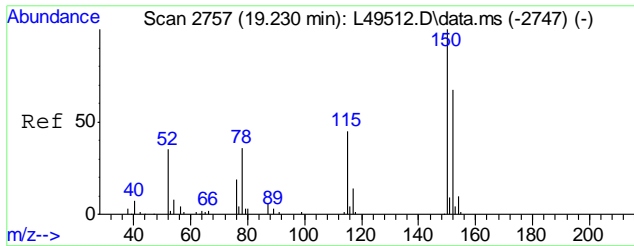


#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ug/Kg
RT: 19.263 min Scan# 2763
Delta R.T. -0.030 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm

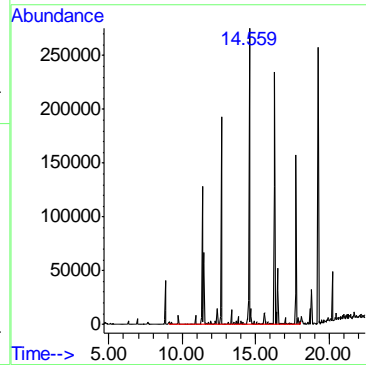
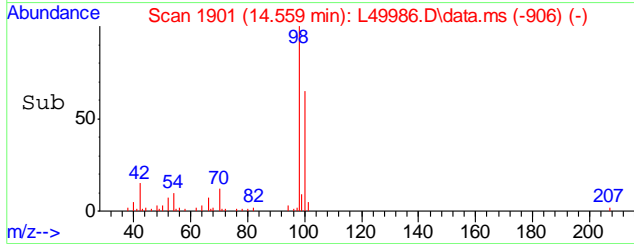
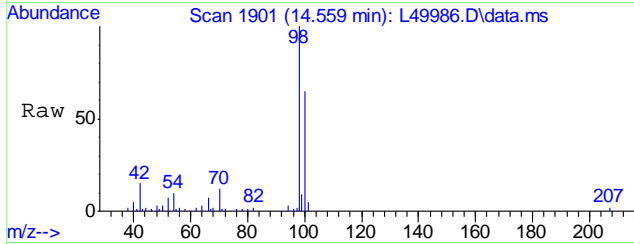
Tgt Ion:152 Resp: 797205

Ion	Ratio	Lower	Upper
152	100		
115	64.9	41.6	81.6
150	160.7	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 83.55 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49986.D
Acq: 12 Jul 2016 7:40 pm
Tgt Ion:TIC Resp:32699215



6.1.32
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160711\
 Data File : L49949.D
 Acq On : 11 Jul 2016 2:49 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VL1498,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 12 09:24:03 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

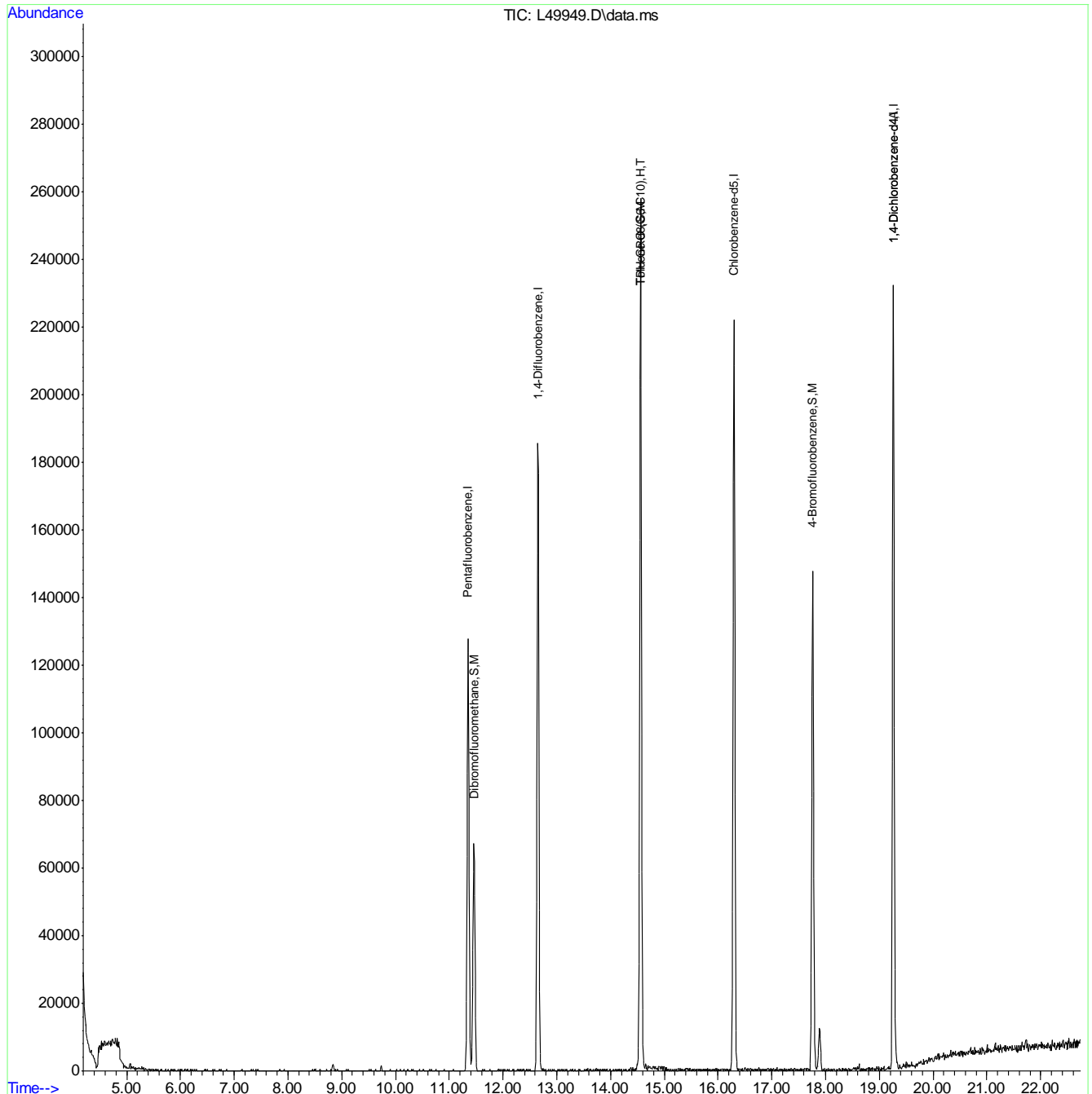
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	1142254	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.650	114	1932647	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1635849	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	748222	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	748222	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.455	111	608199	17.78	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery	=	88.90%	
56) Toluene-d8	14.559	98	2203100	19.07	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery	=	95.35%	
74) 4-Bromofluorobenzene	17.762	95	864909	18.01	ug/Kg	-0.01
Spiked Amount	20.000	Range 81 - 115	Recovery	=	90.05%	
Target Compounds						
100) TPH-GRO (C6-C10)	14.559	TIC	26536742m	62.11	ug/Kg	Qvalue

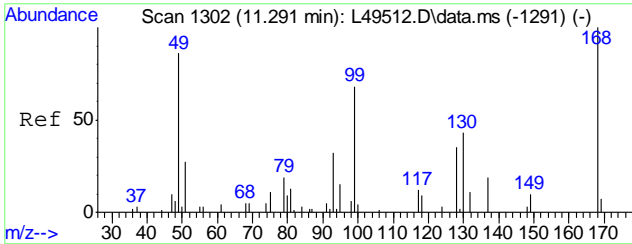
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

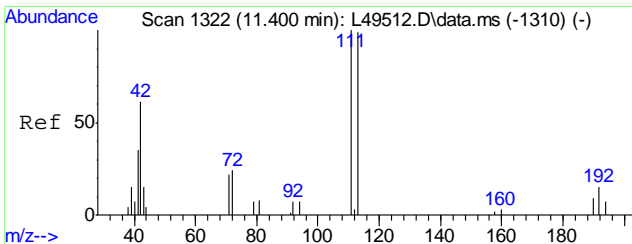
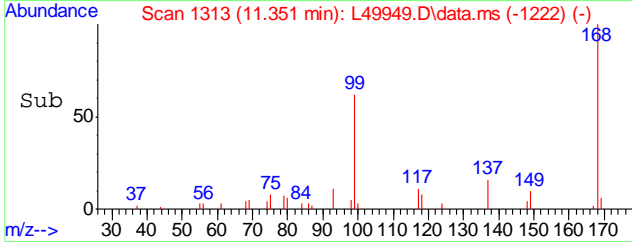
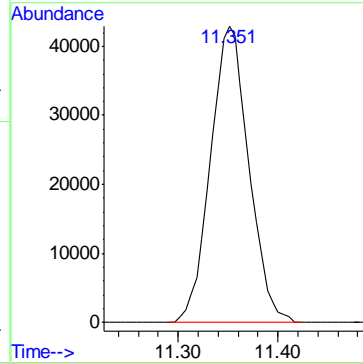
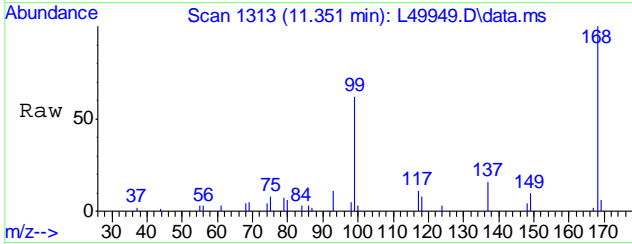
Data Path : C:\msdchem\1\DATA\L160711\
 Data File : L49949.D
 Acq On : 11 Jul 2016 2:49 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VL1498,5,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 12 09:24:03 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration



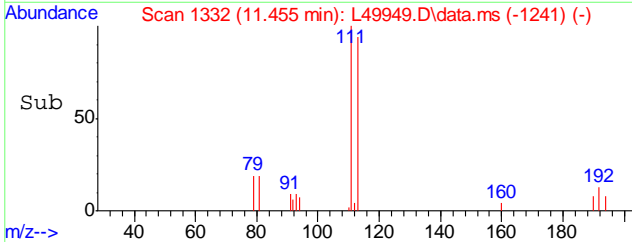
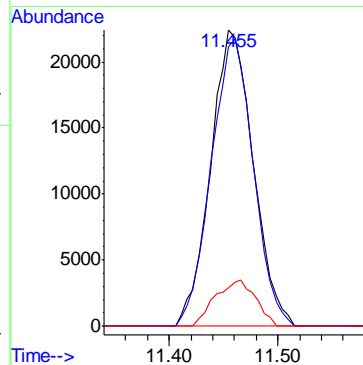
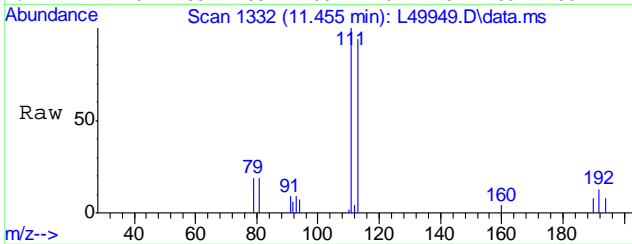


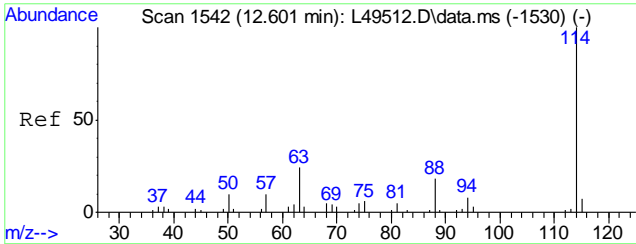
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49949.D
 Acq: 11 Jul 2016 2:49 pm
 Tgt Ion:168 Resp: 1142254



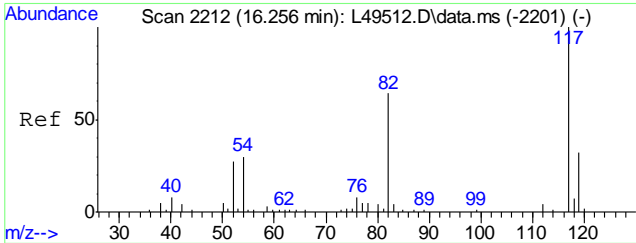
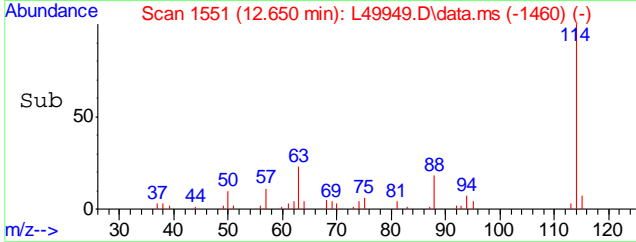
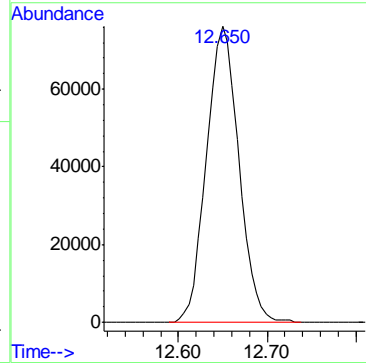
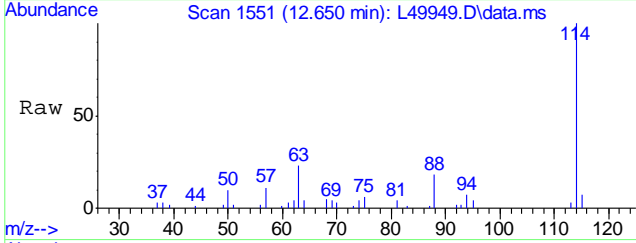
#36
 Dibromofluoromethane
 Concen: 17.78 ug/Kg
 RT: 11.455 min Scan# 1332
 Delta R.T. -0.005 min
 Lab File: L49949.D
 Acq: 11 Jul 2016 2:49 pm
 Tgt Ion:111 Resp: 608199

Ion	Ratio	Lower	Upper
111	100		
113	96.1	78.6	118.6
192	14.6	0.0	34.1

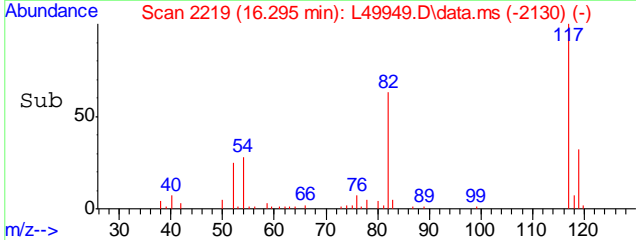
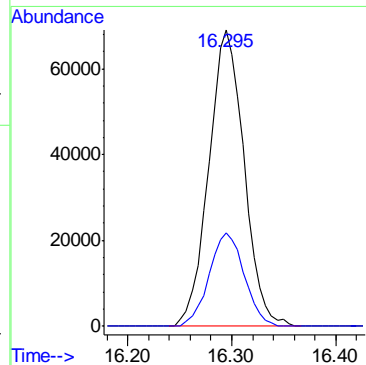
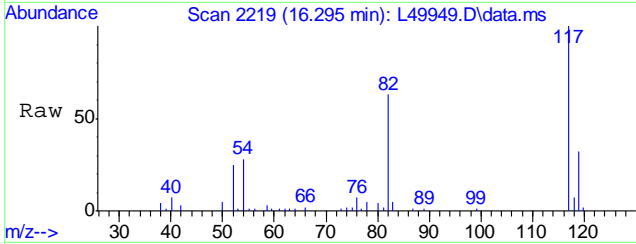


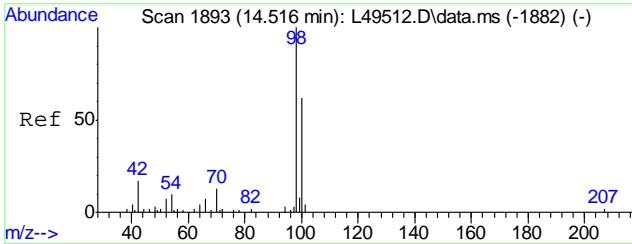


#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49949.D
 Acq: 11 Jul 2016 2:49 pm
 Tgt Ion:114 Resp: 1932647



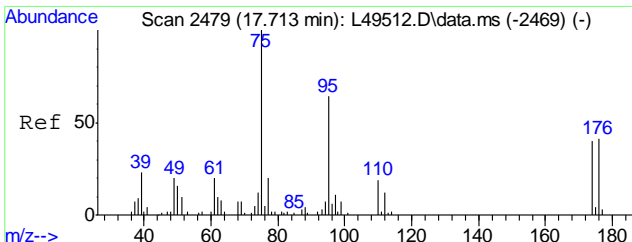
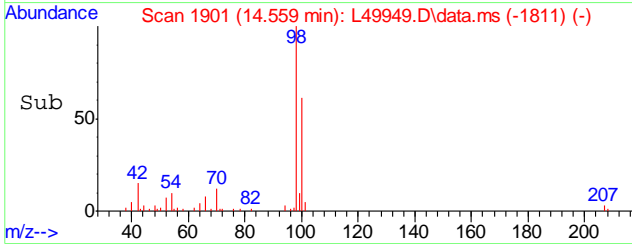
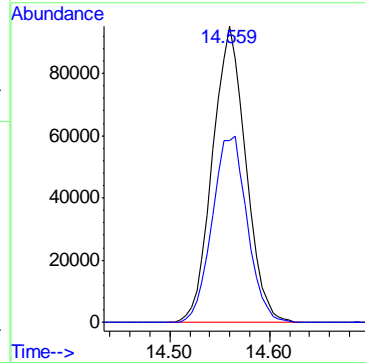
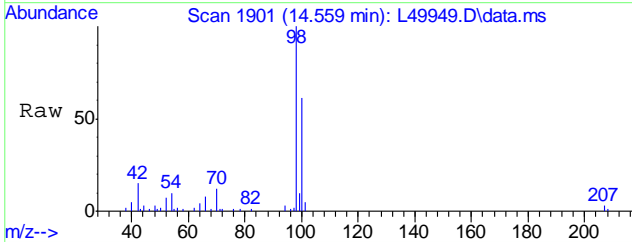
#55
 Chlorobenzene-d5
 Concen: 20.00 ug/Kg
 RT: 16.295 min Scan# 2219
 Delta R.T. -0.016 min
 Lab File: L49949.D
 Acq: 11 Jul 2016 2:49 pm
 Tgt Ion:117 Resp: 1635849
 Ion Ratio Lower Upper
 117 100
 119 31.3 10.2 50.2





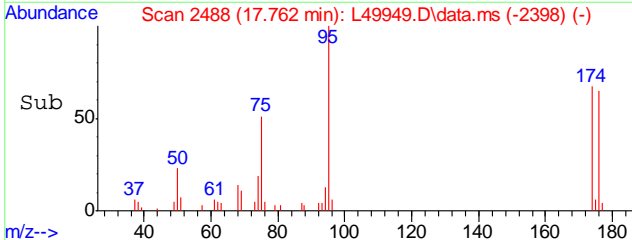
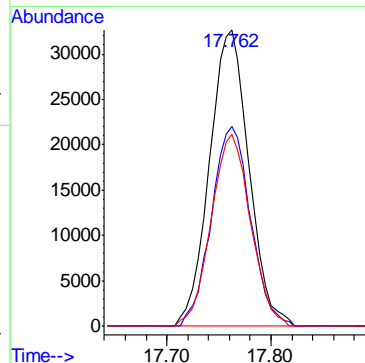
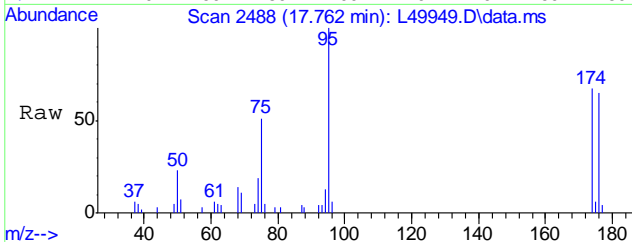
#56
Toluene-d8
Concen: 19.07 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49949.D
Acq: 11 Jul 2016 2:49 pm

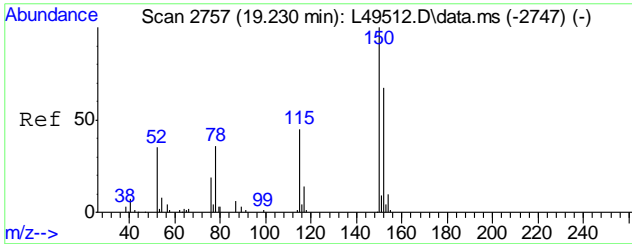
Tgt Ion	Resp	Lower	Upper
98	2203100		
98	100		
100	66.1	45.2	85.2



#74
4-Bromofluorobenzene
Concen: 18.01 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.010 min
Lab File: L49949.D
Acq: 11 Jul 2016 2:49 pm

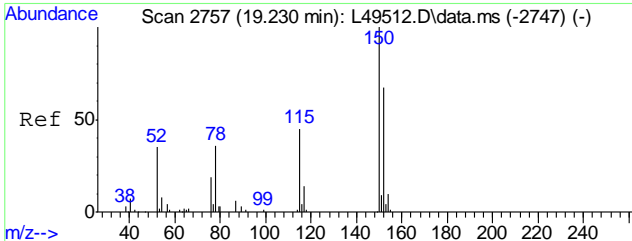
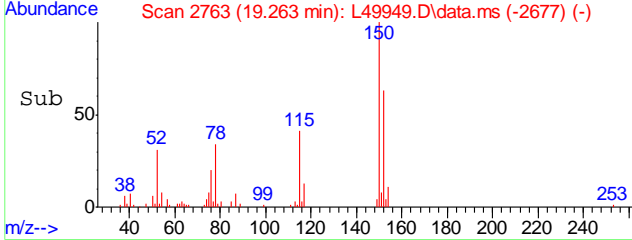
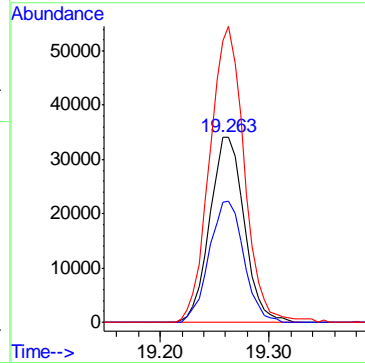
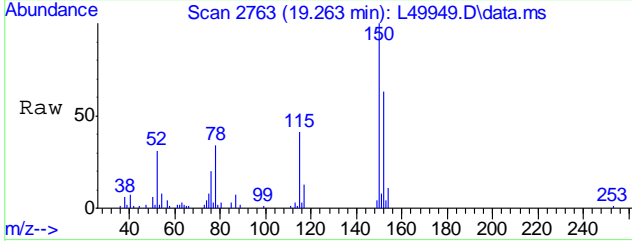
Tgt Ion	Resp	Lower	Upper
95	864909		
95	100		
174	67.2	41.6	81.6
176	64.7	39.6	79.6





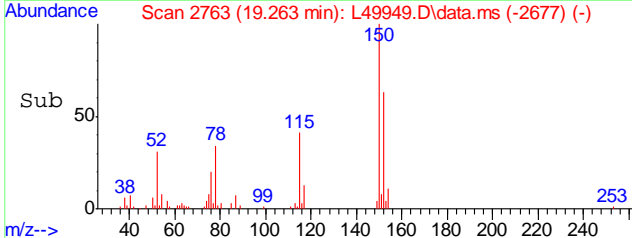
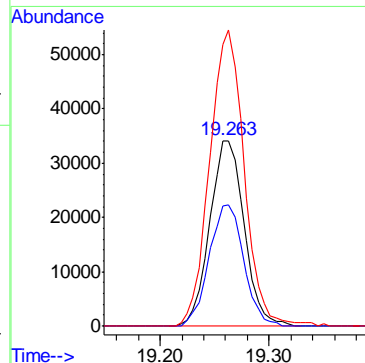
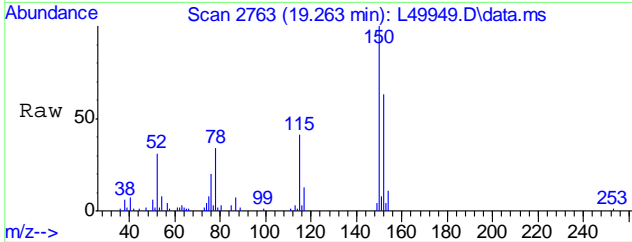
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49949.D
 Acq: 11 Jul 2016 2:49 pm

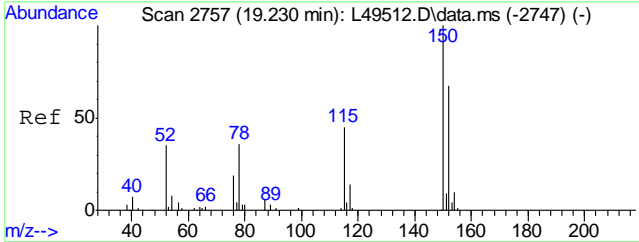
Tgt Ion	Resp	Lower	Upper
152	100		
115	65.7	48.8	88.8
150	160.9	174.3	214.3#



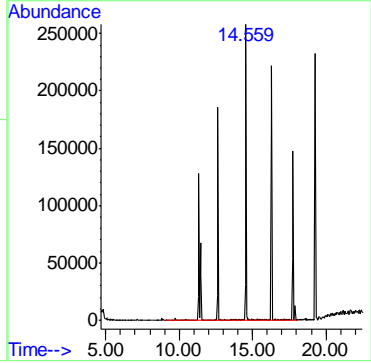
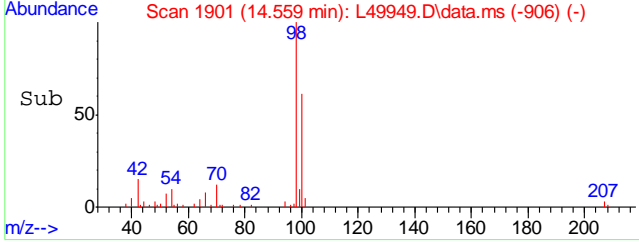
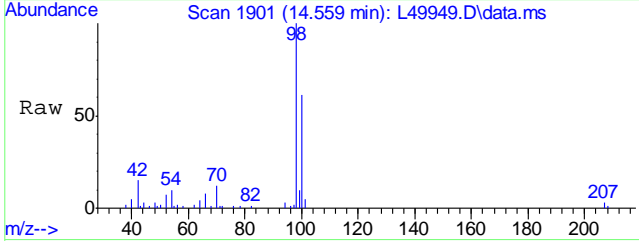
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49949.D
 Acq: 11 Jul 2016 2:49 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	65.7	41.6	81.6
150	160.9	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 62.11 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49949.D
Acq: 11 Jul 2016 2:49 pm
Tgt Ion:TIC Resp:26536742



6.2.1
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49974.D
 Acq On : 12 Jul 2016 1:43 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VL1499,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 08:56:18 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration

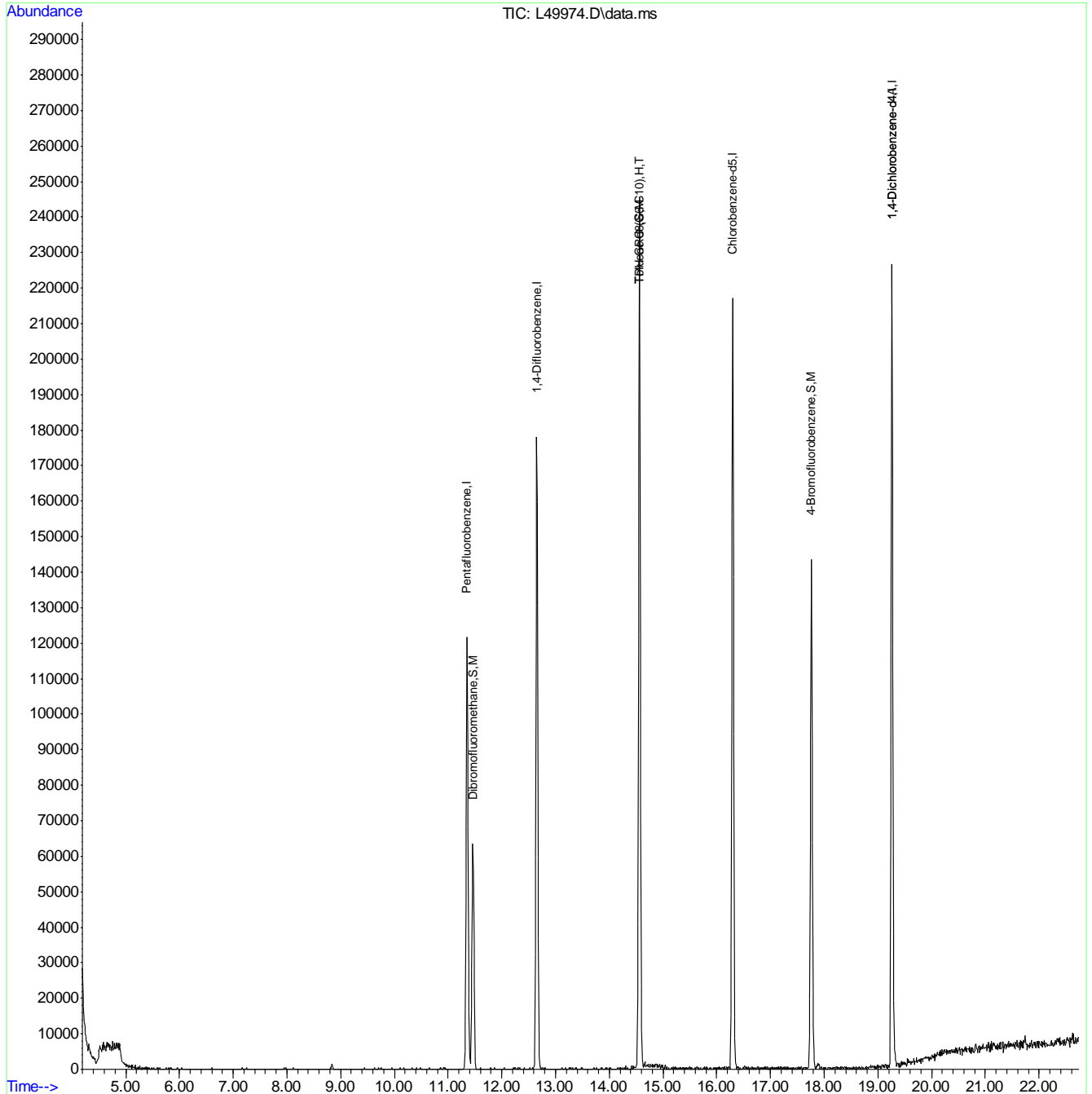
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	11.351	168	1074645	20.00	ug/Kg	0.00
40) 1,4-Difluorobenzene	12.650	114	1849379	20.00	ug/Kg	0.00
55) Chlorobenzene-d5	16.295	117	1560138	20.00	ug/Kg	-0.02
77) 1,4-Dichlorobenzene-d4	19.263	152	722968	20.00	ug/Kg	-0.03
99) 1,4-Dichlorobenzene-d4A	19.263	152	722968	20.00	ug/Kg	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	11.460	111	596002	18.52	ug/Kg	0.00
Spiked Amount	20.000	Range 72 - 140	Recovery	=	92.60%	
56) Toluene-d8	14.559	98	2164680	19.65	ug/Kg	-0.01
Spiked Amount	20.000	Range 87 - 113	Recovery	=	98.25%	
74) 4-Bromofluorobenzene	17.762	95	832676	18.18	ug/Kg	-0.01
Spiked Amount	20.000	Range 81 - 115	Recovery	=	90.90%	
Target Compounds						
100) TPH-GRO (C6-C10)	14.559	TIC	25047508m	58.93	ug/Kg	Qvalue

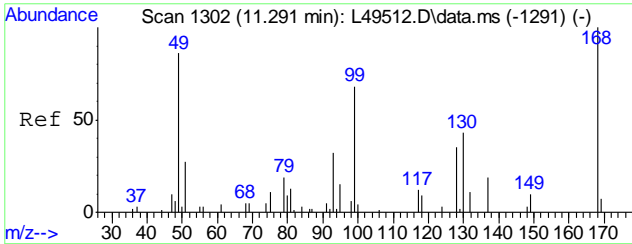
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

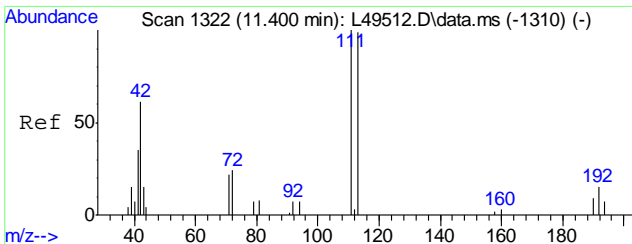
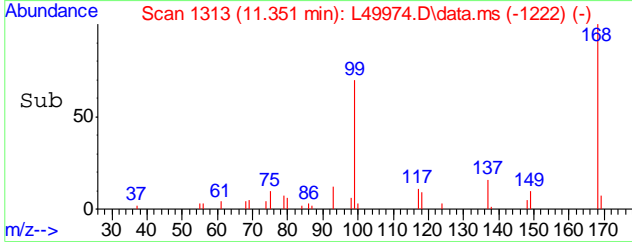
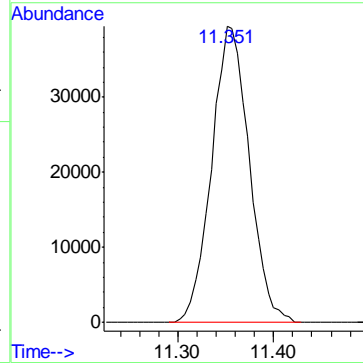
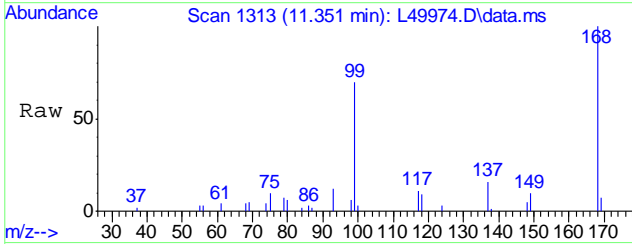
Data Path : C:\msdchem\1\DATA\L160712\
 Data File : L49974.D
 Acq On : 12 Jul 2016 1:43 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VL1499,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 08:56:18 2016
 Quant Method : C:\msdchem\1\METHODS\VL1485S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Jul 11 13:46:33 2016
 Response via : Initial Calibration



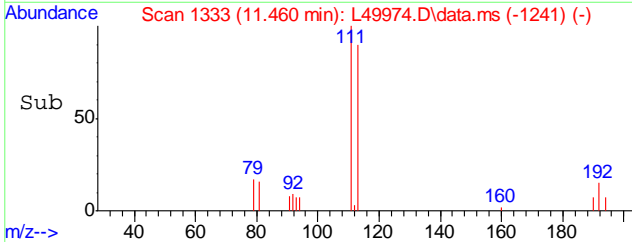
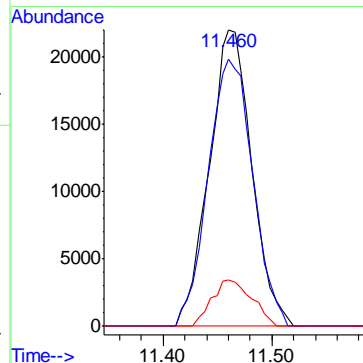
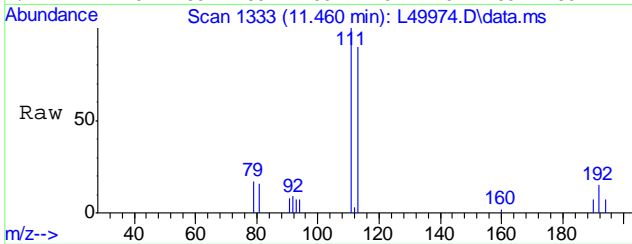


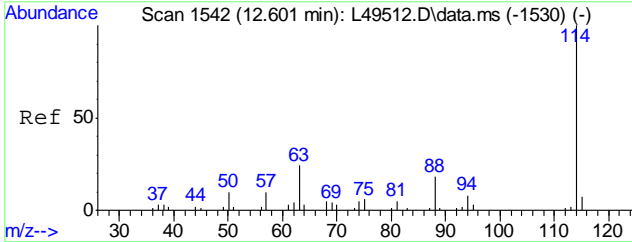
#1
 Pentafluorobenzene
 Concen: 20.00 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. -0.005 min
 Lab File: L49974.D
 Acq: 12 Jul 2016 1:43 pm
 Tgt Ion:168 Resp: 1074645



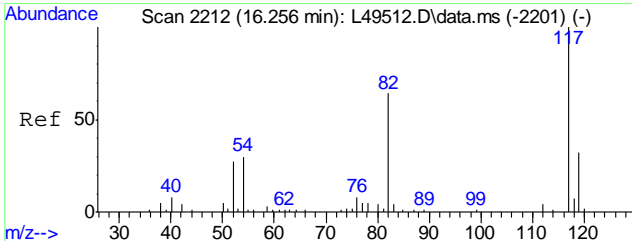
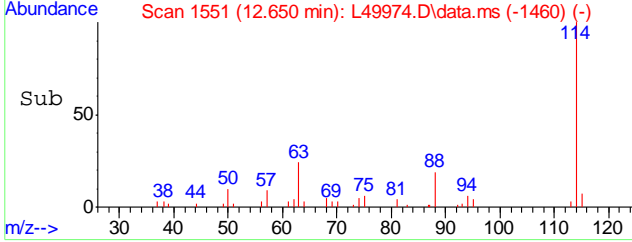
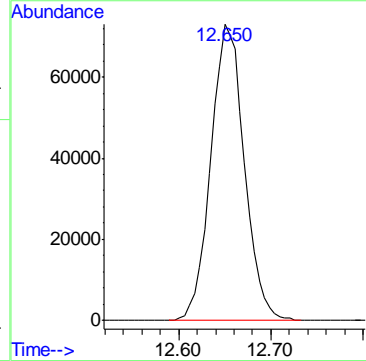
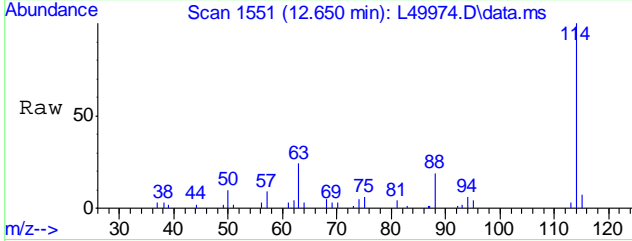
#36
 Dibromofluoromethane
 Concen: 18.52 ug/Kg
 RT: 11.460 min Scan# 1333
 Delta R.T. 0.000 min
 Lab File: L49974.D
 Acq: 12 Jul 2016 1:43 pm
 Tgt Ion:111 Resp: 596002

Ion	Ratio	Lower	Upper
111	100		
113	94.7	78.6	118.6
192	14.6	0.0	34.1



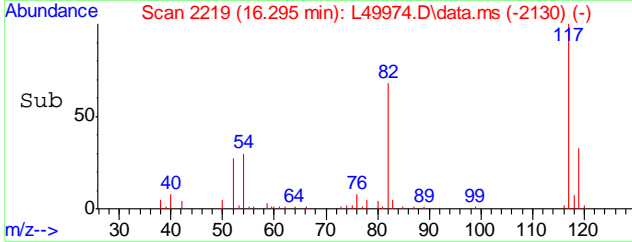
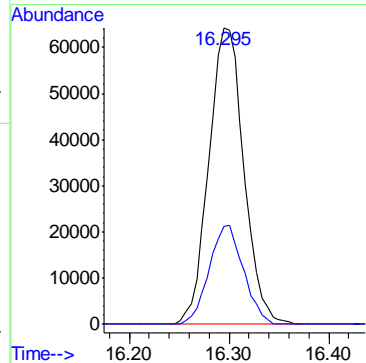
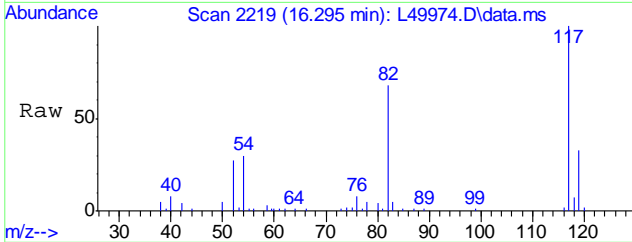


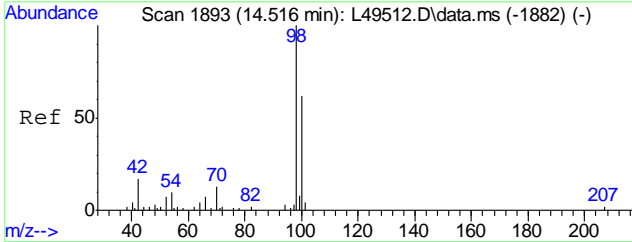
#40
 1,4-Difluorobenzene
 Concen: 20.00 ug/Kg
 RT: 12.650 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: L49974.D
 Acq: 12 Jul 2016 1:43 pm
 Tgt Ion:114 Resp: 1849379



#55
 Chlorobenzene-d5
 Concen: 20.00 ug/Kg
 RT: 16.295 min Scan# 2219
 Delta R.T. -0.016 min
 Lab File: L49974.D
 Acq: 12 Jul 2016 1:43 pm
 Tgt Ion:117 Resp: 1560138

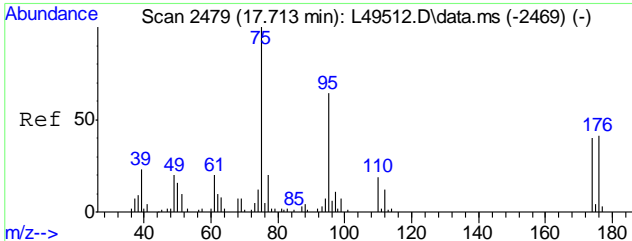
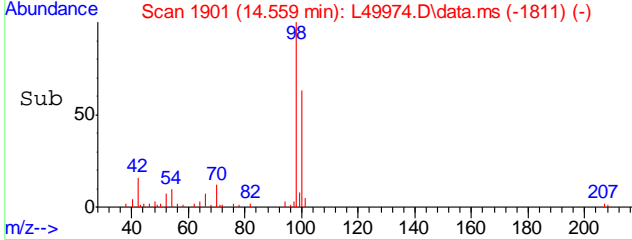
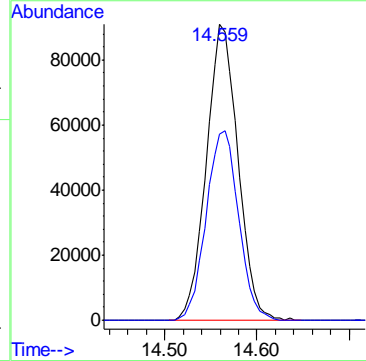
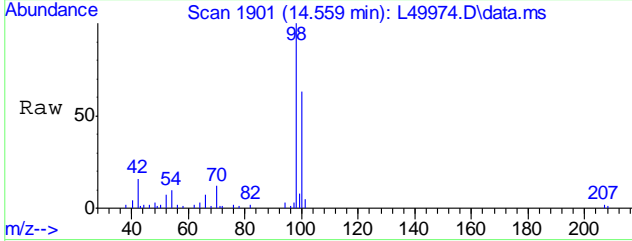
Ion	Ratio	Lower	Upper
117	100		
119	32.6	10.2	50.2





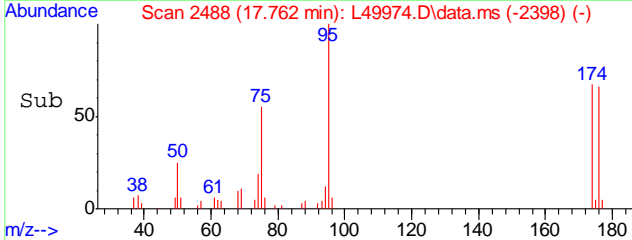
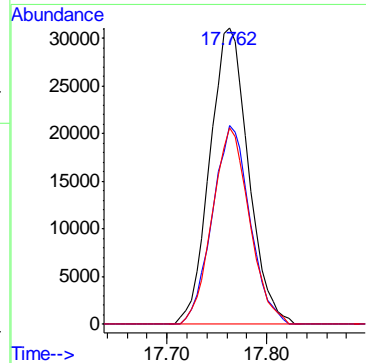
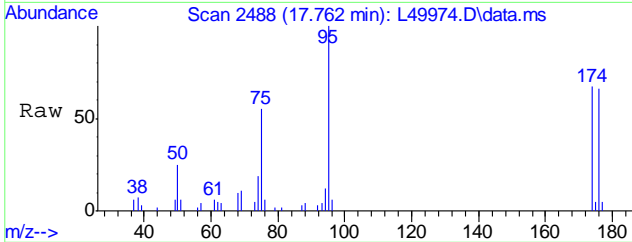
#56
Toluene-d8
Concen: 19.65 ug/Kg
RT: 14.559 min Scan# 1901
Delta R.T. -0.010 min
Lab File: L49974.D
Acq: 12 Jul 2016 1:43 pm

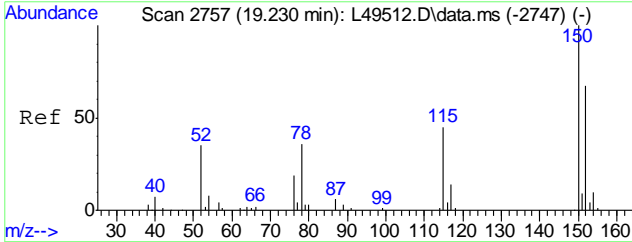
Tgt Ion: 98 Resp: 2164680
Ion Ratio Lower Upper
98 100
100 65.5 45.2 85.2



#74
4-Bromofluorobenzene
Concen: 18.18 ug/Kg
RT: 17.762 min Scan# 2488
Delta R.T. -0.010 min
Lab File: L49974.D
Acq: 12 Jul 2016 1:43 pm

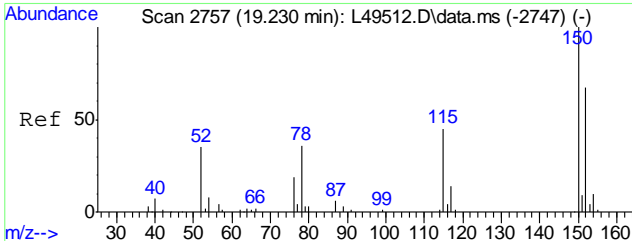
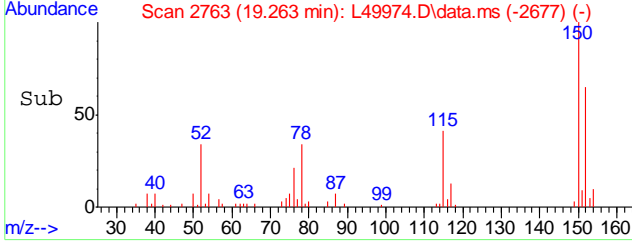
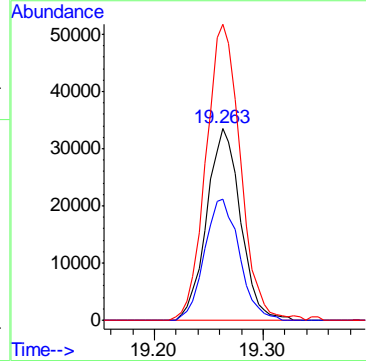
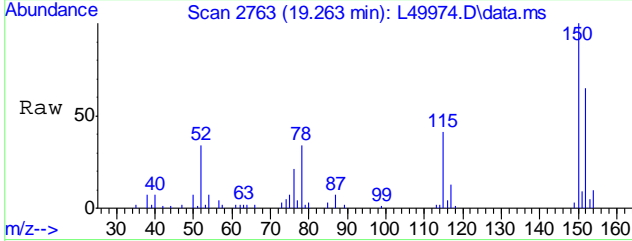
Tgt Ion: 95 Resp: 832676
Ion Ratio Lower Upper
95 100
174 65.4 41.6 81.6
176 63.9 39.6 79.6





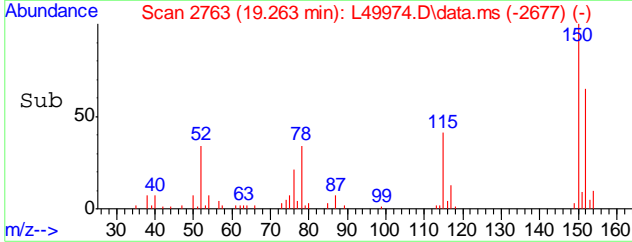
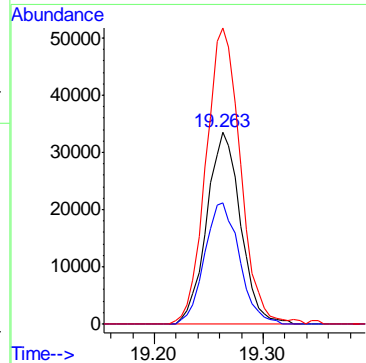
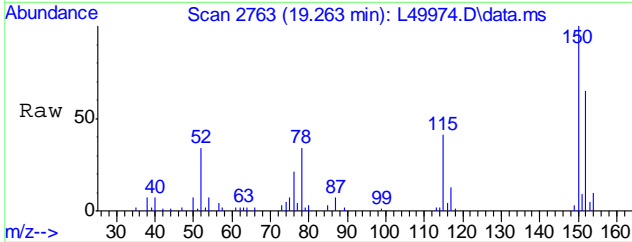
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49974.D
 Acq: 12 Jul 2016 1:43 pm

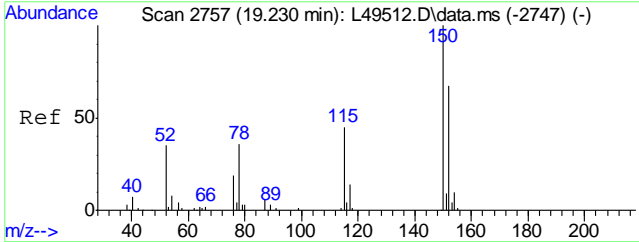
Tgt Ion	Resp	Lower	Upper
152	722968		
152	100		
115	64.8	48.8	88.8
150	157.0	174.3	214.3#



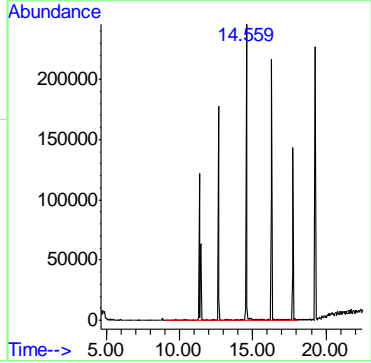
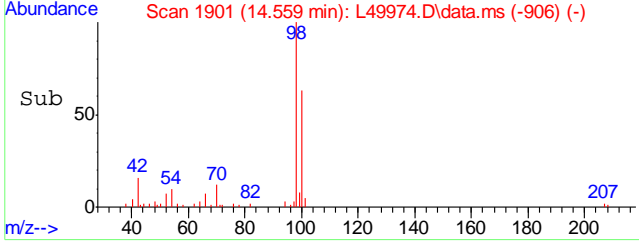
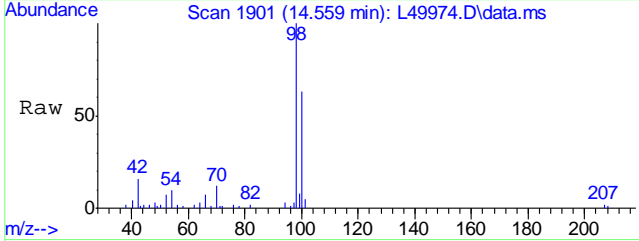
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ug/Kg
 RT: 19.263 min Scan# 2763
 Delta R.T. -0.030 min
 Lab File: L49974.D
 Acq: 12 Jul 2016 1:43 pm

Tgt Ion	Resp	Lower	Upper
152	722968		
152	100		
115	64.8	41.6	81.6
150	157.0	176.9	216.9#





#100
TPH-GRO (C6-C10)
Concen: 58.93 ug/Kg m
RT: 14.559 min Scan# 1901
Delta R.T. 0.034 min
Lab File: L49974.D
Acq: 12 Jul 2016 1:43 pm
Tgt Ion:TIC Resp:25047508



6.2.2
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61834.D
 Acq On : 13 Jul 2016 1:58 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1859,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 16:34:20 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.351	168	163557	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.670	114	244456	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	235313	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.361	152	128649	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.361	152	128649	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.467	111	79332	19.13	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	95.65%		
56) Toluene-d8	14.601	98	285757	18.61	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	93.05%		
74) 4-Bromofluorobenzene	17.862	95	122149	20.23	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	101.15%		

Target Compounds

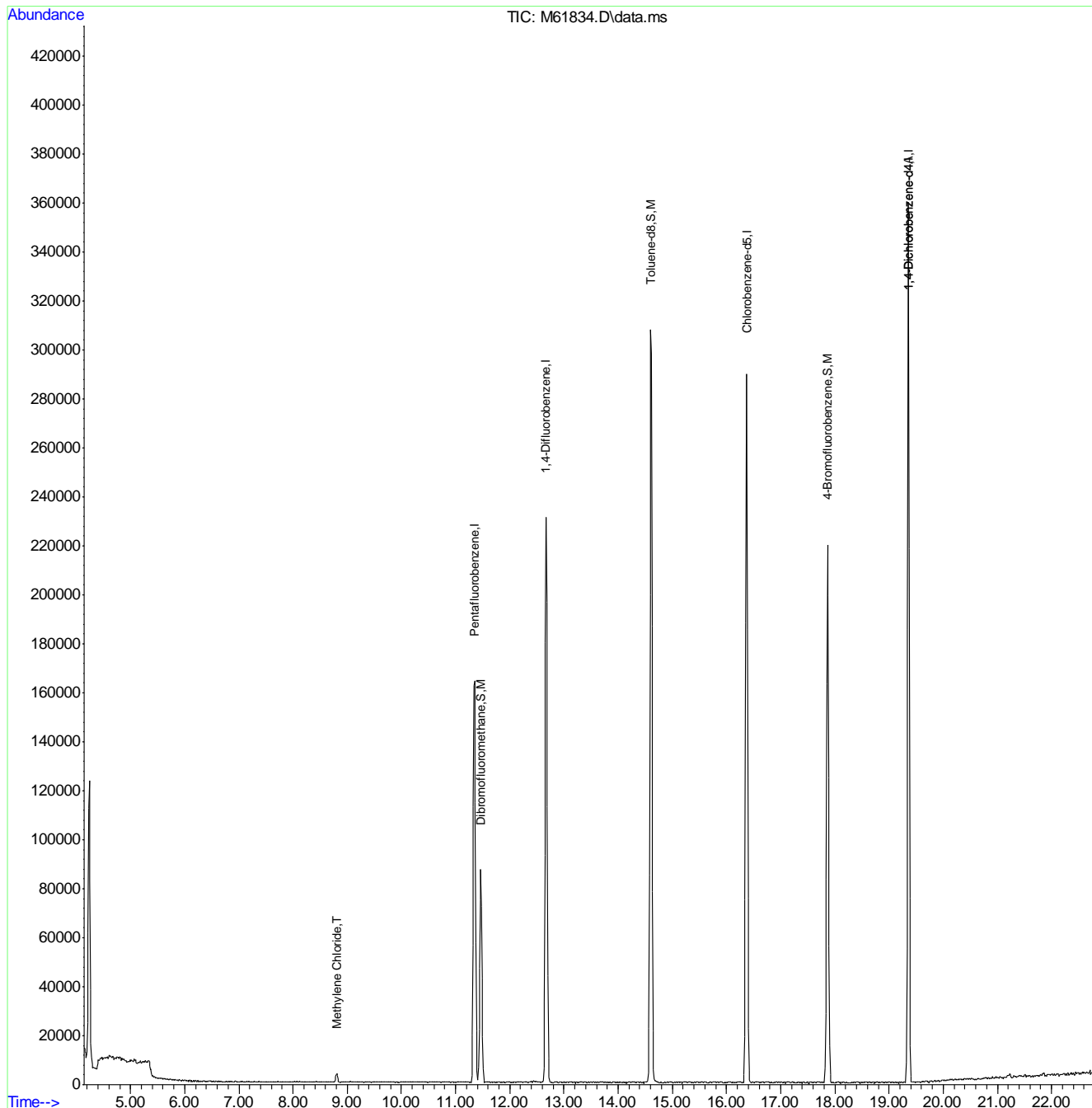
					Qvalue	
19) Methylene Chloride	8.808	84	2606	0.45	ppb	# 75

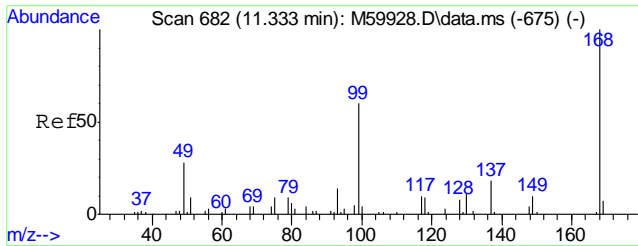
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

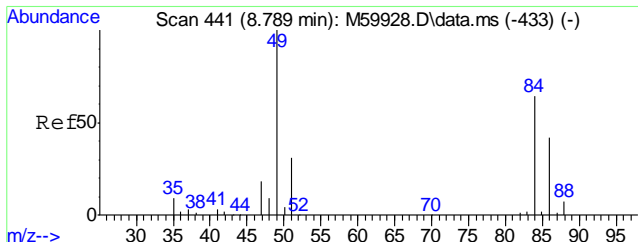
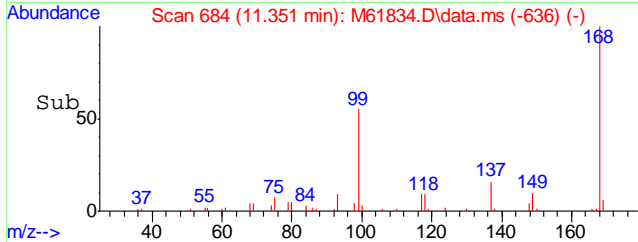
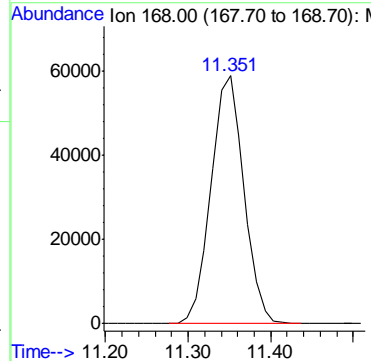
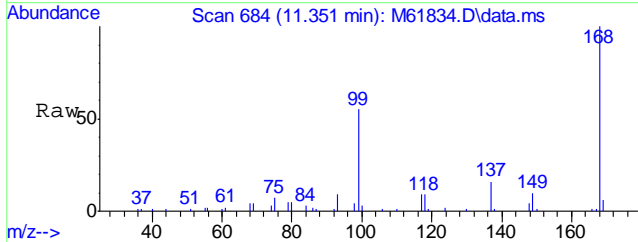
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61834.D
 Acq On : 13 Jul 2016 1:58 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1859,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 16:34:20 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration



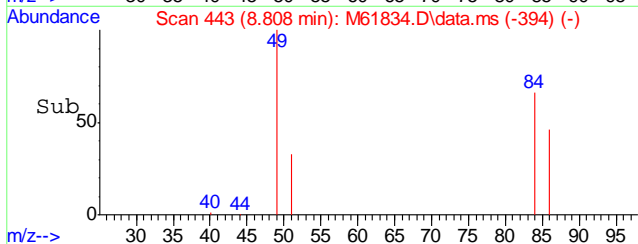
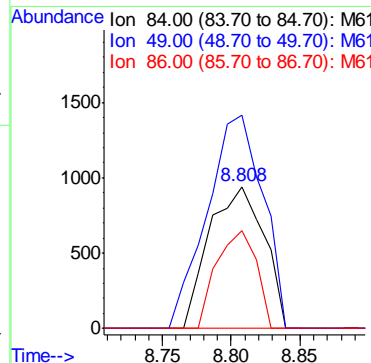
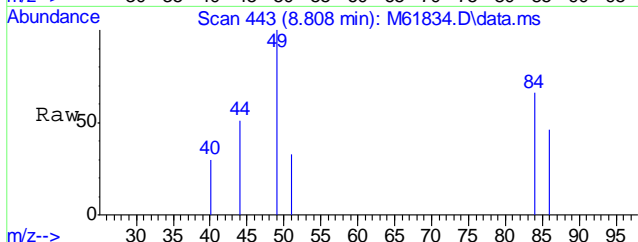


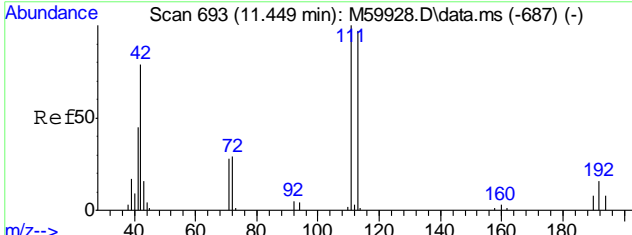
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.351 min Scan# 684
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm
 Tgt Ion:168 Resp: 163557



#19
 Methylene Chloride
 Concen: 0.45 ppb
 RT: 8.808 min Scan# 443
 Delta R.T. 0.018 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm
 Tgt Ion: 84 Resp: 2606

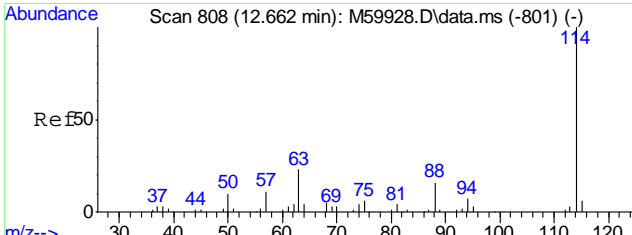
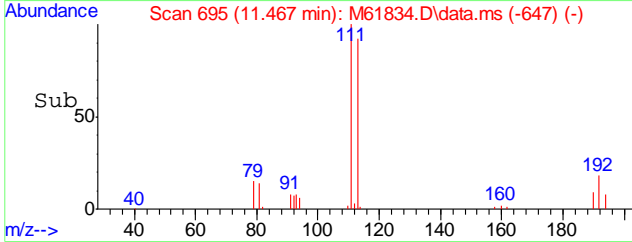
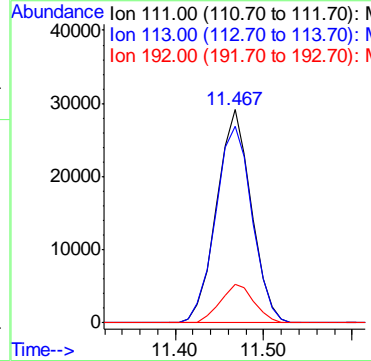
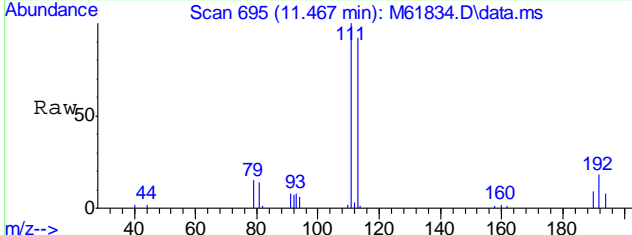
Ion	Ratio	Lower	Upper
84	100		
49	152.3	134.5	174.5
86	0.0	43.8	83.8#





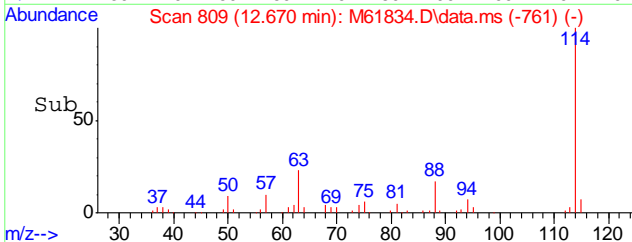
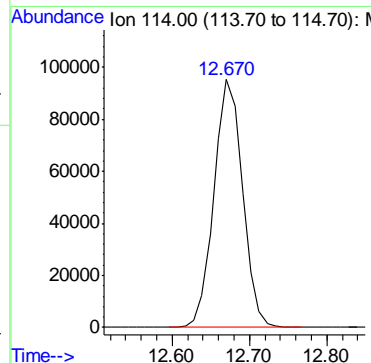
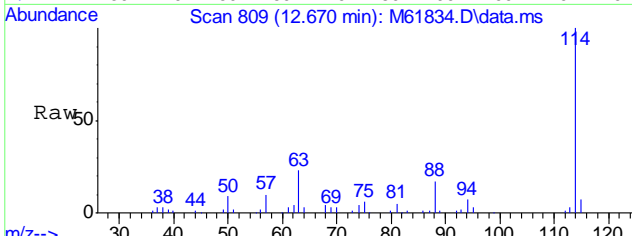
#36
 Dibromofluoromethane
 Concen: 19.13 ppb
 RT: 11.467 min Scan# 695
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm

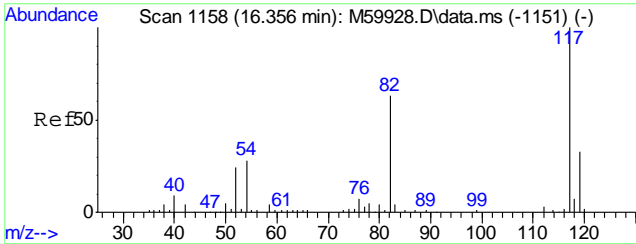
Tgt Ion	Resp	Lower	Upper
111	79332	100	
113	96.8	77.7	117.7
192	17.6	0.0	36.3



#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.670 min Scan# 809
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm

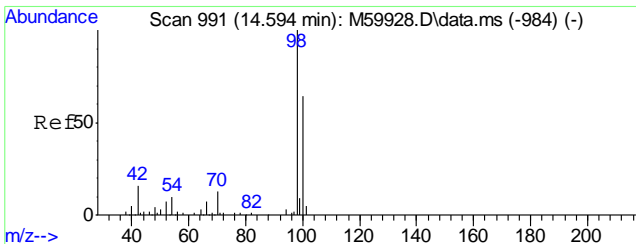
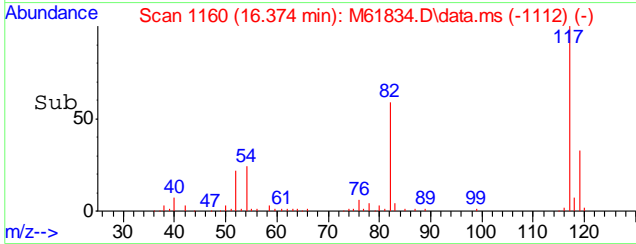
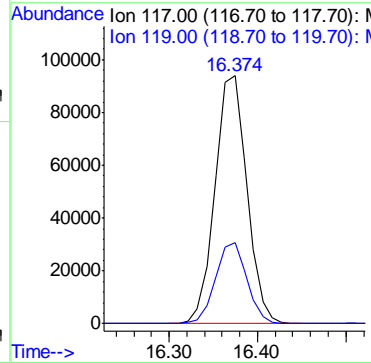
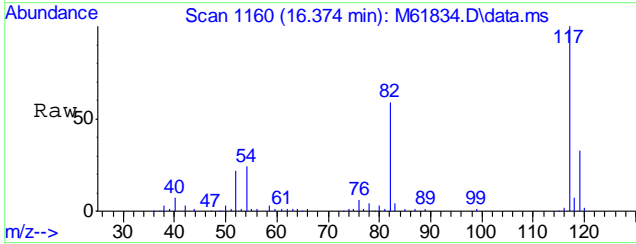
Tgt Ion:114 Resp: 244456





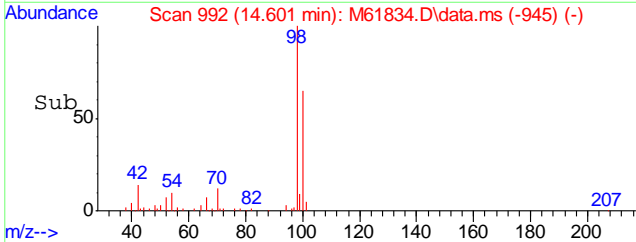
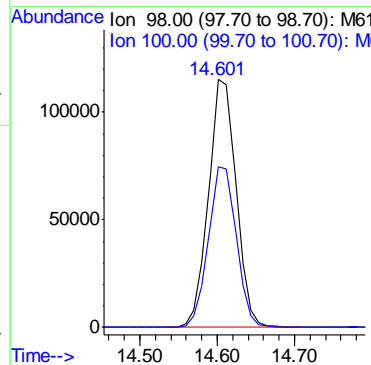
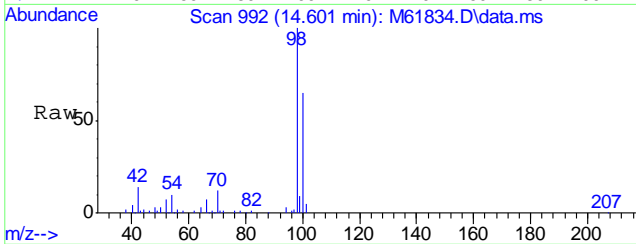
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.374 min Scan# 1160
Delta R.T. 0.008 min
Lab File: M61834.D
Acq: 13 Jul 2016 1:58 pm

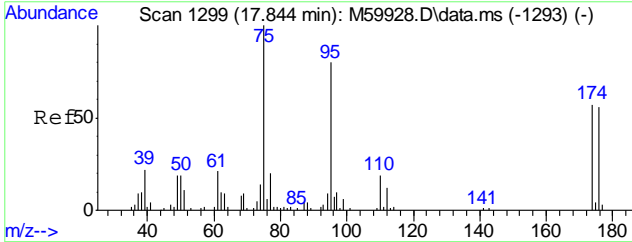
Tgt Ion	Resp	Lower	Upper
117	235313	100	
119	32.4	11.2	51.2



#56
Toluene-d8
Concen: 18.61 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61834.D
Acq: 13 Jul 2016 1:58 pm

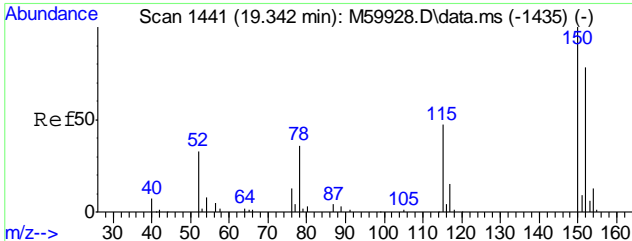
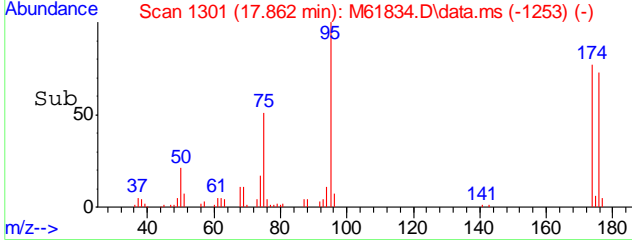
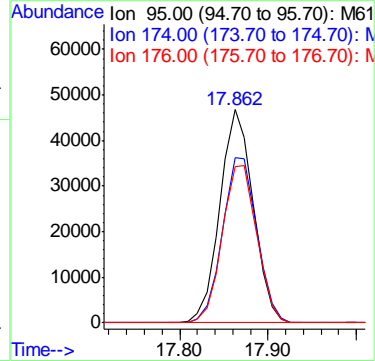
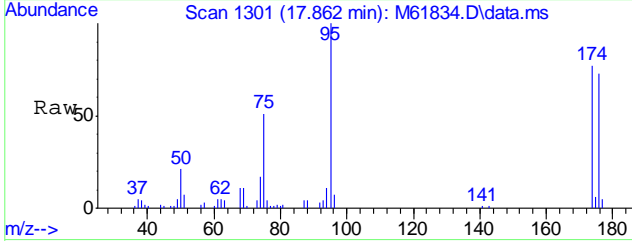
Tgt Ion	Resp	Lower	Upper
98	285757	100	
100	65.4	44.3	84.3





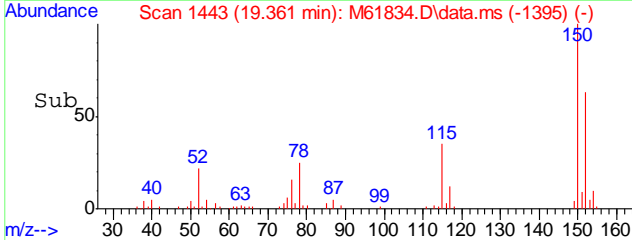
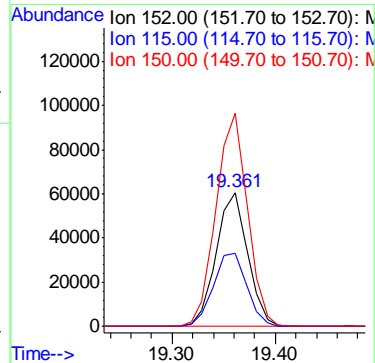
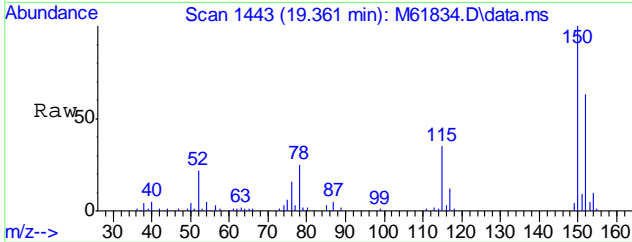
#74
4-Bromofluorobenzene
Concen: 20.23 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.008 min
Lab File: M61834.D
Acq: 13 Jul 2016 1:58 pm

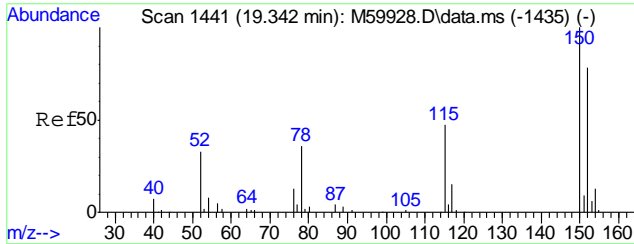
Tgt Ion	Resp	Lower	Upper
95	122149		
174	80.1	54.3	94.3
176	76.8	51.5	91.5



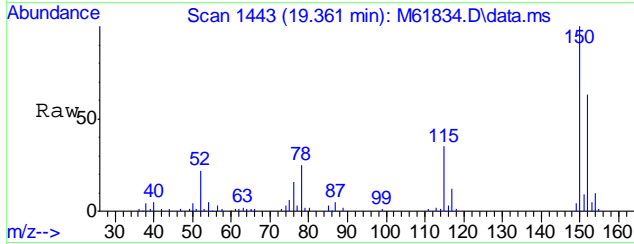
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.361 min Scan# 1443
Delta R.T. 0.008 min
Lab File: M61834.D
Acq: 13 Jul 2016 1:58 pm

Tgt Ion	Resp	Lower	Upper
152	128649		
115	58.5	40.9	80.9
150	159.1	178.6	218.6#

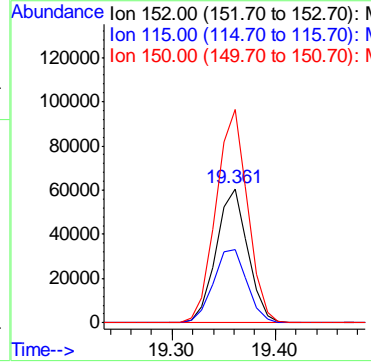
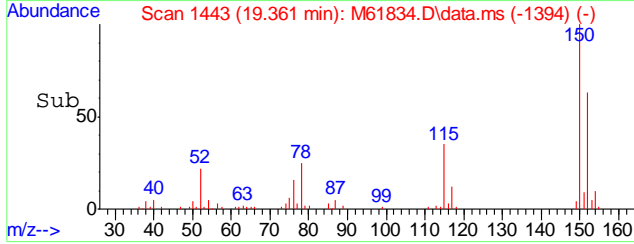




#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.361 min Scan# 1443
 Delta R.T. 0.019 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm



Tgt Ion	Resp	Lower	Upper
152	128649		
152	100		
115	58.5	37.3	77.3
150	159.1	176.0	216.0#



6.2.3
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61913.D
 Acq On : 18 Jul 2016 4:51 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1861,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 19 09:00:23 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.342	168	160520	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.672	114	244448	20.00	ppb	0.00
55) Chlorobenzene-d5	16.365	117	241467	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.352	152	137692	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.352	152	137692	20.00	ppb	0.00

System Monitoring Compounds

36) Dibromofluoromethane	11.458	111	76953	20.20	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	101.00%		
56) Toluene-d8	14.603	98	289959	19.70	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	98.50%		
74) 4-Bromofluorobenzene	17.864	95	125901	20.59	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	102.95%		

Target Compounds

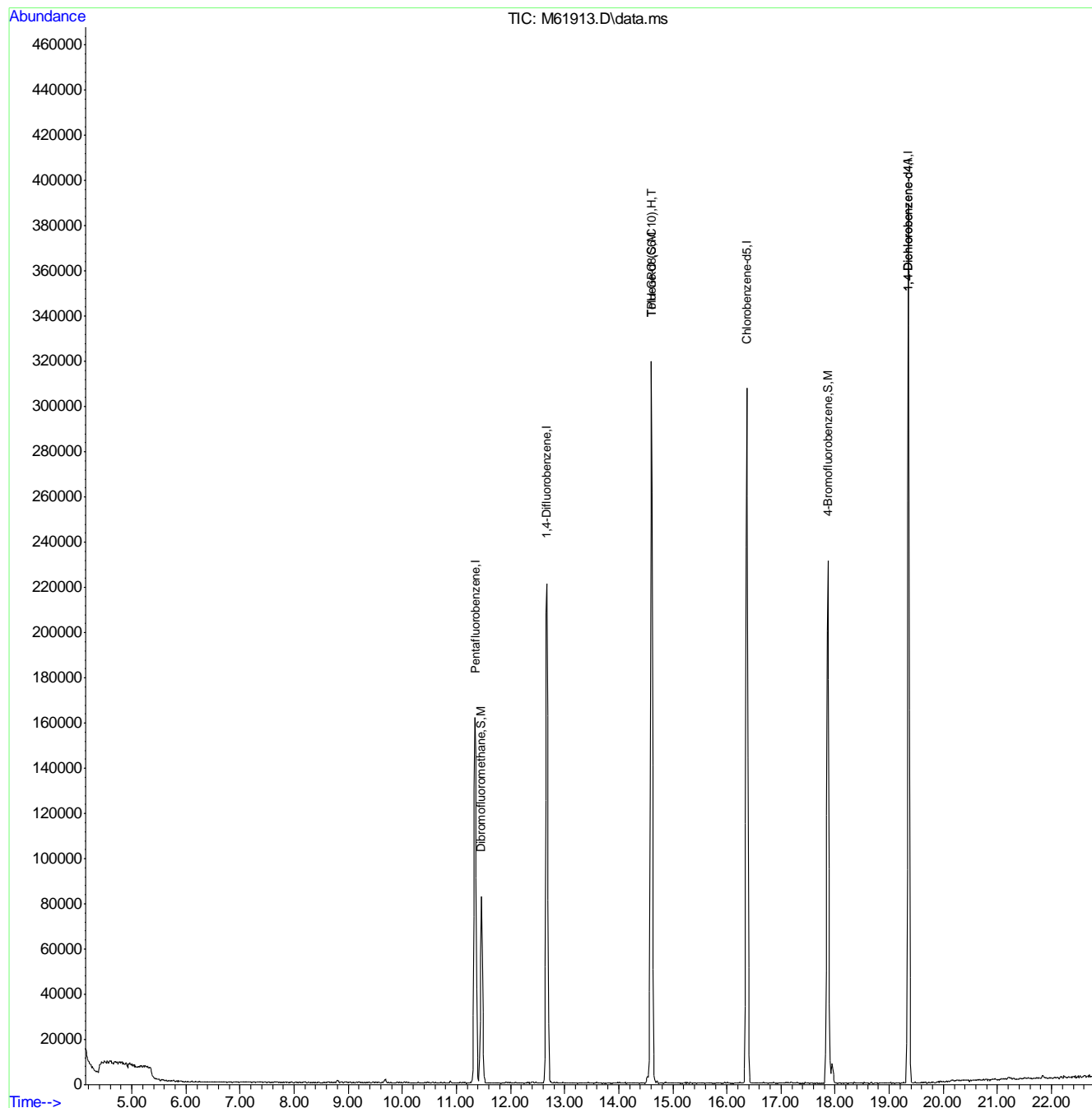
					Qvalue
100) TPH-GRO (C6-C10)	14.603	TIC	3662668m	34.74	ppb

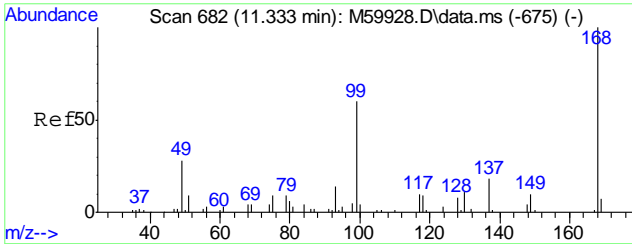
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

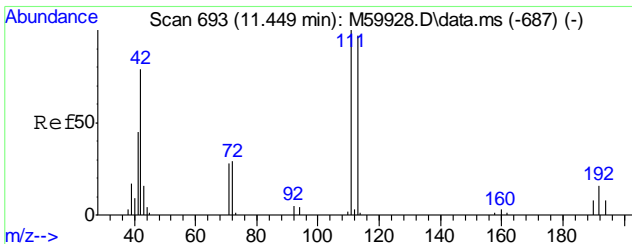
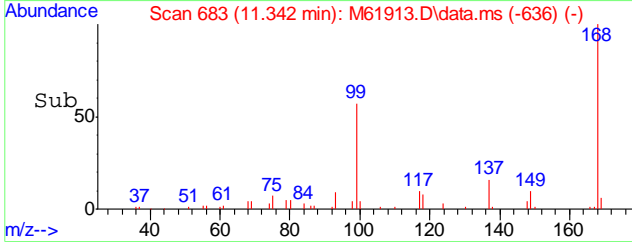
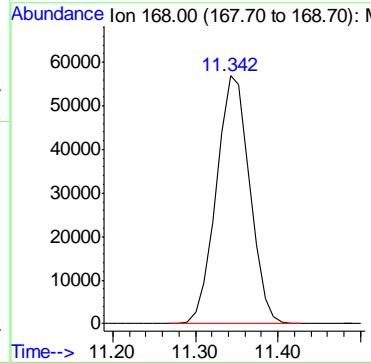
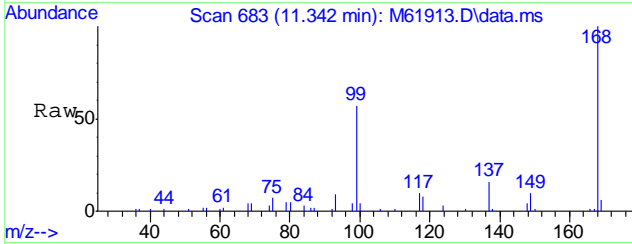
Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61913.D
 Acq On : 18 Jul 2016 4:51 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1861,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 19 09:00:23 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration



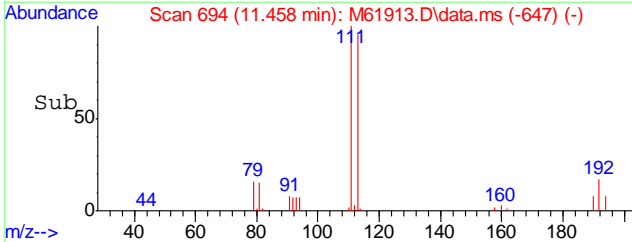
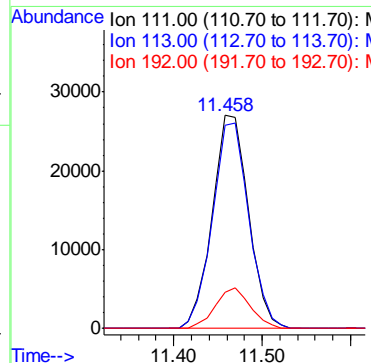
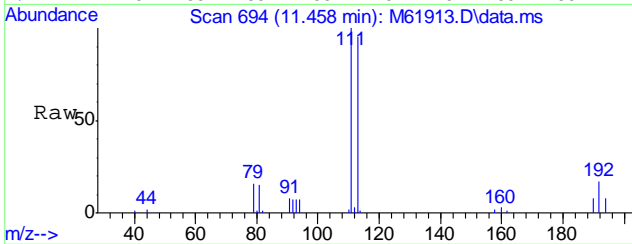


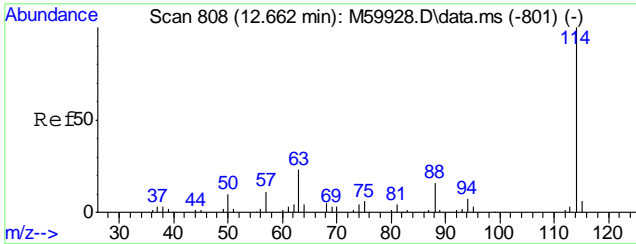
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.342 min Scan# 683
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:168 Resp: 160520



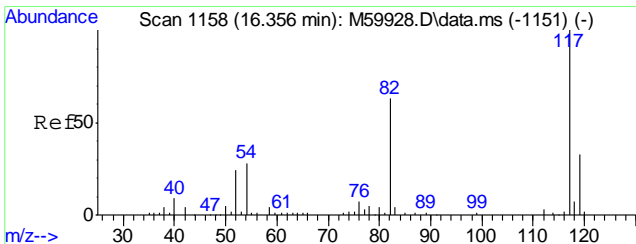
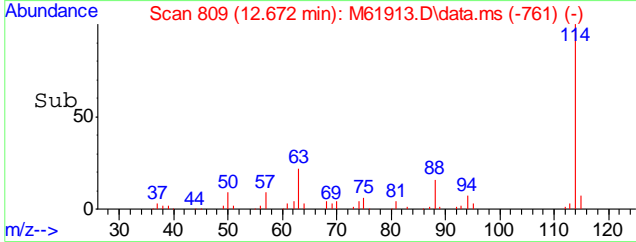
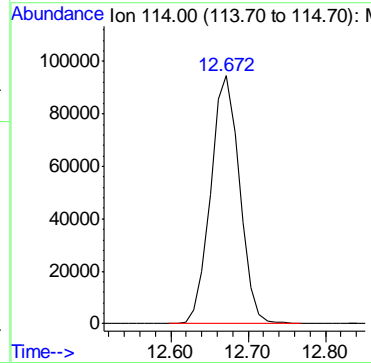
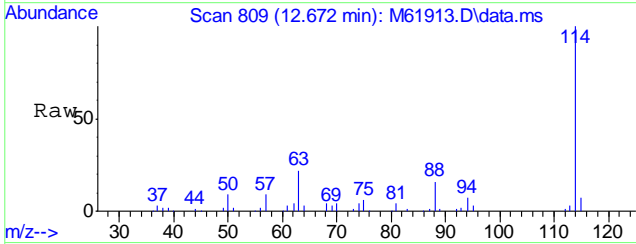
#36
 Dibromofluoromethane
 Concen: 20.20 ppb
 RT: 11.458 min Scan# 694
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:111 Resp: 76953

Ion	Ratio	Lower	Upper
111	100		
113	96.8	77.7	117.7
192	18.5	0.0	36.3

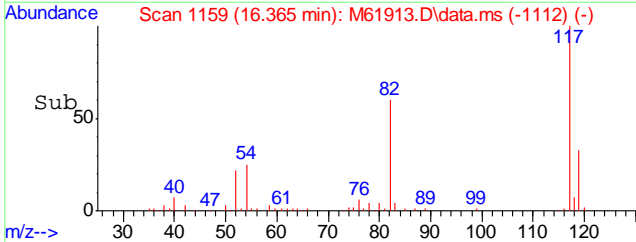
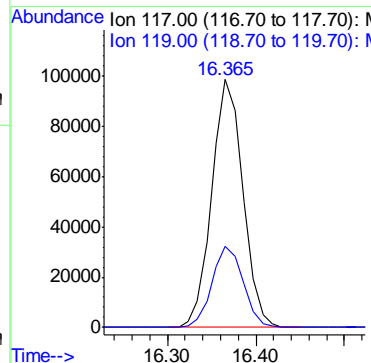
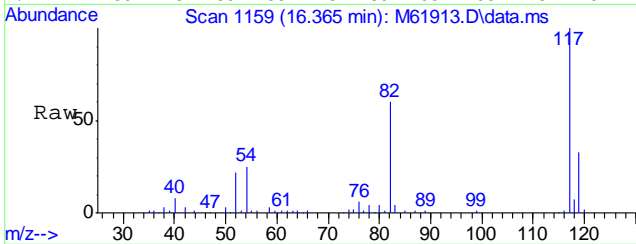


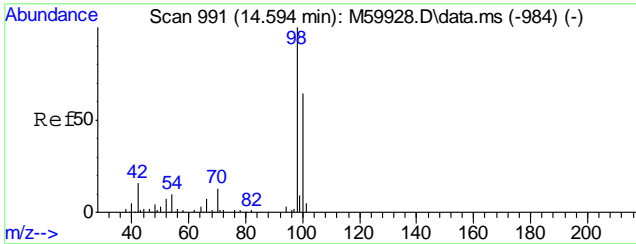


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.672 min Scan# 809
 Delta R.T. 0.010 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:114 Resp: 244448



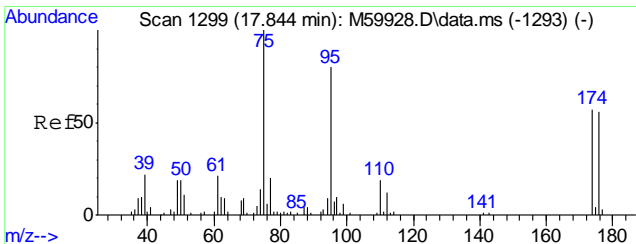
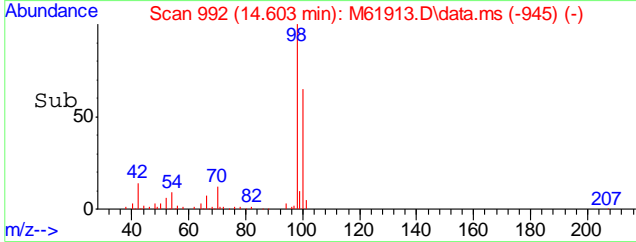
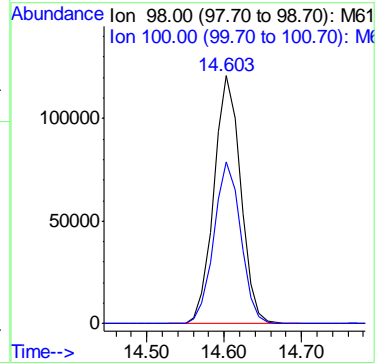
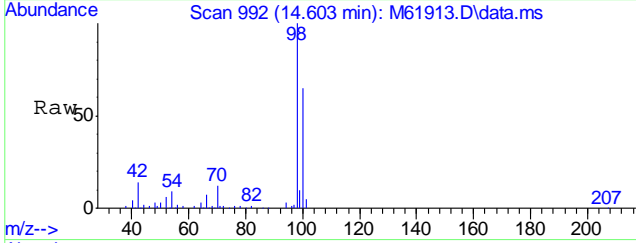
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.365 min Scan# 1159
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:117 Resp: 241467
 Ion Ratio Lower Upper
 117 100
 119 32.7 11.2 51.2





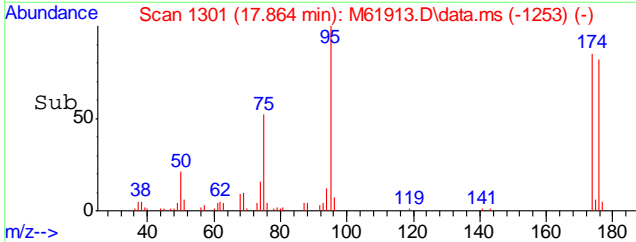
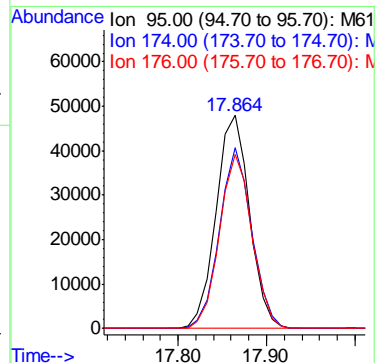
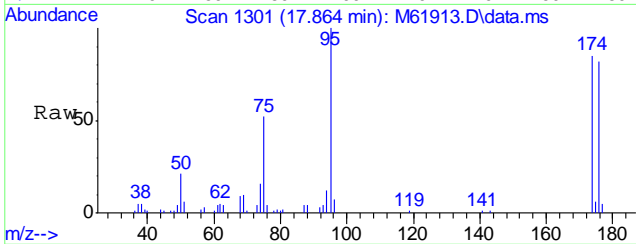
#56
Toluene-d8
Concen: 19.70 ppb
RT: 14.603 min Scan# 992
Delta R.T. -0.001 min
Lab File: M61913.D
Acq: 18 Jul 2016 4:51 pm

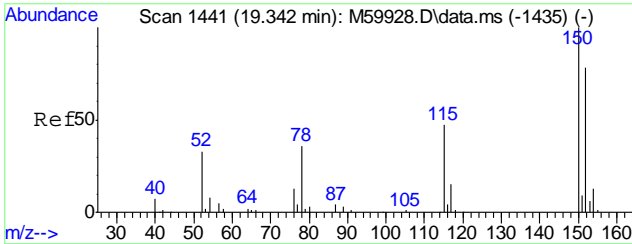
Tgt Ion	Resp	Lower	Upper
98	289959	100	
100	65.7	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.59 ppb
RT: 17.864 min Scan# 1301
Delta R.T. 0.010 min
Lab File: M61913.D
Acq: 18 Jul 2016 4:51 pm

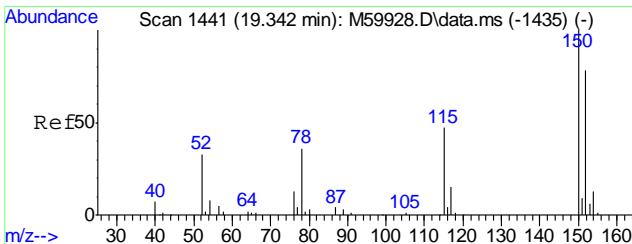
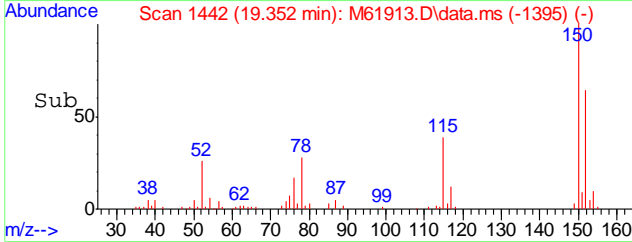
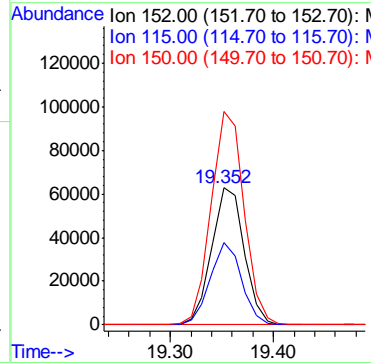
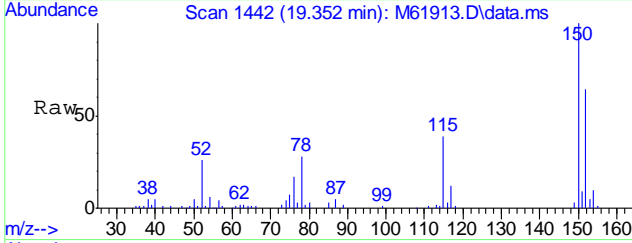
Tgt Ion	Resp	Lower	Upper
95	125901	100	
174	81.8	54.3	94.3
176	79.4	51.5	91.5





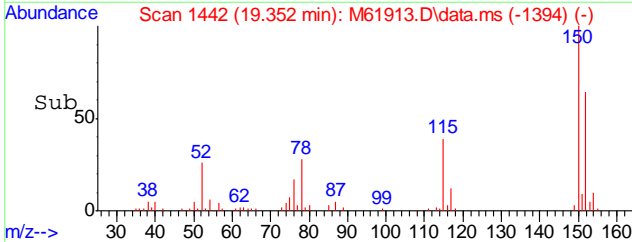
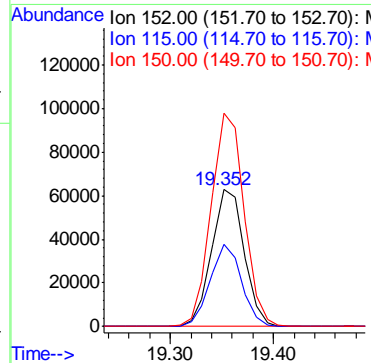
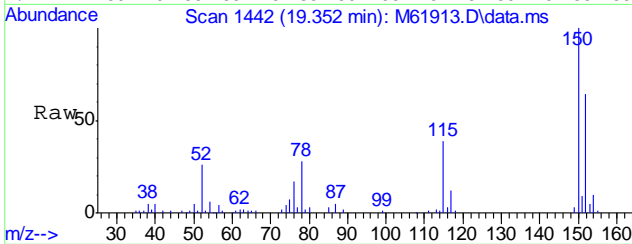
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.352 min Scan# 1442
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm

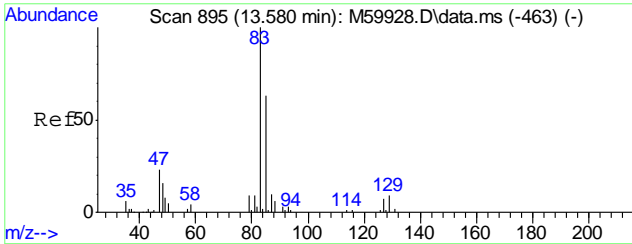
Tgt Ion	Resp	Lower	Upper
152	137692		
152	100		
115	57.7	40.9	80.9
150	156.8	178.6	218.6#



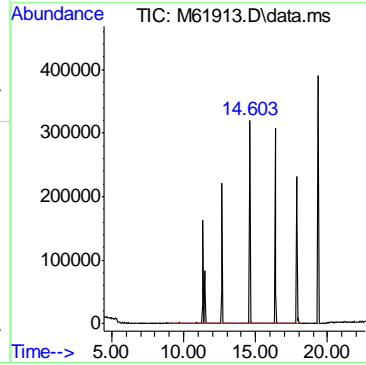
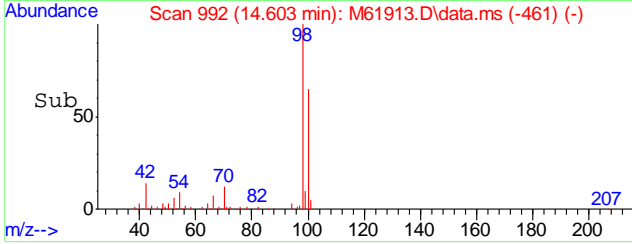
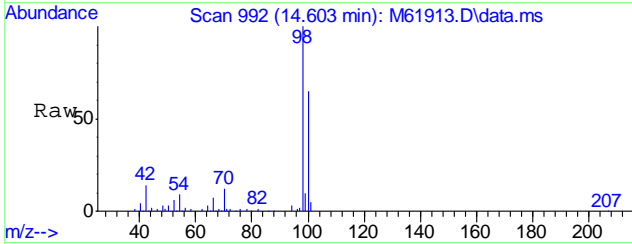
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.352 min Scan# 1442
 Delta R.T. 0.010 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm

Tgt Ion	Resp	Lower	Upper
152	137692		
152	100		
115	57.7	37.3	77.3
150	156.8	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 34.74 ppb m
RT: 14.603 min Scan# 992
Delta R.T. 1.053 min
Lab File: M61913.D
Acq: 18 Jul 2016 4:51 pm
Tgt Ion:TIC Resp: 3662668



6.2.4
6

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14613-MB	BB5187.D	1	07/09/16	MT	07/08/16	OP14613	GBB170

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	1.65	3.3	mg/kg	J

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	77% 38-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14613-BS	BB5188.D	1	07/09/16	MT	07/08/16	OP14613	GBB170
OP14613-BSD	BB5189.D	1	07/09/16	MT	07/08/16	OP14613	GBB170

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	33.3	31.5	95	30.0	90	5	53-107/12
	TPH (> C28-C40)	33.3	30.3	91	29.8	89	2	59-120/14

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	77%	76%	38-146%

* = Outside of Control Limits.

7.2.1
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46435
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14613-MS	BB5263.D	10	07/11/16	NN	07/08/16	OP14613	GBB172
OP14613-MSD	BB5264.D	10	07/12/16	NN	07/08/16	OP14613	GBB172
C46435-1	BB5209.D	2	07/10/16	MT	07/08/16	OP14613	GBB170

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

CAS No.	Compound	C46435-1 mg/kg	Spike Q mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	74.0	33.2	213	418* a	33.2	228	463* a	7	53-107/12
	TPH (> C28-C40)	113	33.2	390	833* a	33.2	401	867* a	3	59-120/14

CAS No.	Surrogate Recoveries	MS	MSD	C46435-1	Limits
630-01-3	Hexacosane	77%	77%	79%	38-146%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

7.3.1
7

GC Semi-volatiles

Raw Data

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5209.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 4:03 am
Operator : MAIT
Sample : C46435-1
Misc : OP14613,GBB170,30.16,,,1,2,S
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:43:44 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
1) S Hexacosane	8.205	39294122	39.562 ppm	m
Spiked Amount	100.000	Recovery	=	39.56%
Target Compounds				
2) H TPH (C10-C28)	4.817	1098421556	1115.916 ppm	
3) H TPH (>C28-C40)	9.372	924270091	1698.299 ppm	
6) H TPH (Diesel)	4.817	1098937989	1116.824 ppm	
7) H TPH (Motor Oil)	9.372	922218502	1693.375 ppm	

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

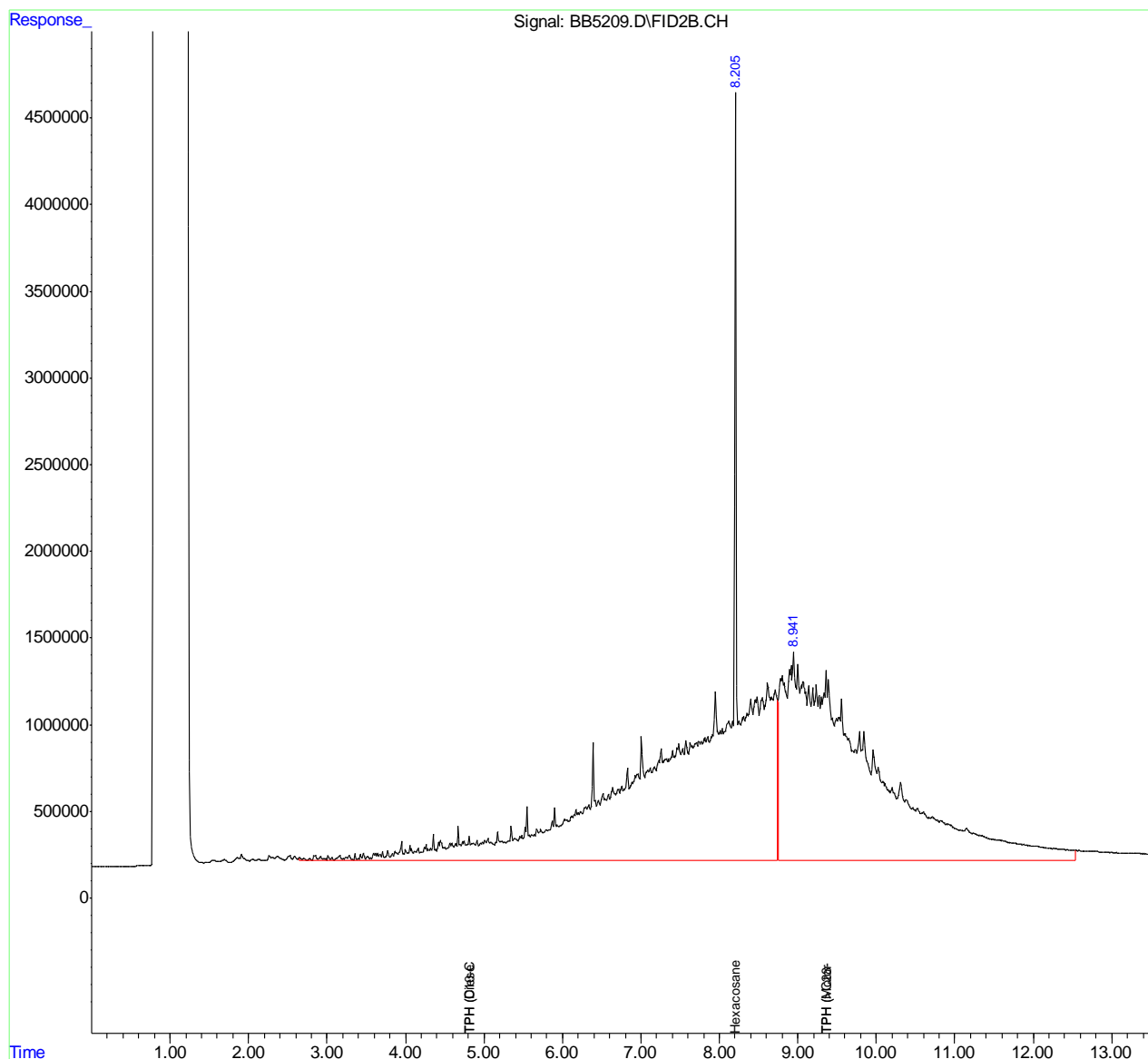
8.1.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5209.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 4:03 am
Operator : MAIT
Sample : C46435-1
Misc : OP14613,GBB170,30.16,,,1,2,S
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:43:44 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5190.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 9:43 pm
Operator : MAIT
Sample : C46435-2
Misc : OP14613,GBB170,30.17,,,1,1,S
ALS Vial : 88 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:16:21 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.205	78307344	78.841 ppm
Spiked Amount 100.000		Recovery =	78.84%
Target Compounds			
2) H TPH (C10-C28)	4.817	224193508	227.764 ppm
3) H TPH (>C28-C40)	9.372	218587945	401.644 ppm
6) H TPH (Diesel)	4.817	223611495	227.251 ppm
7) H TPH (Motor Oil)	9.372	219741272	403.488 ppm

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

8.12
8

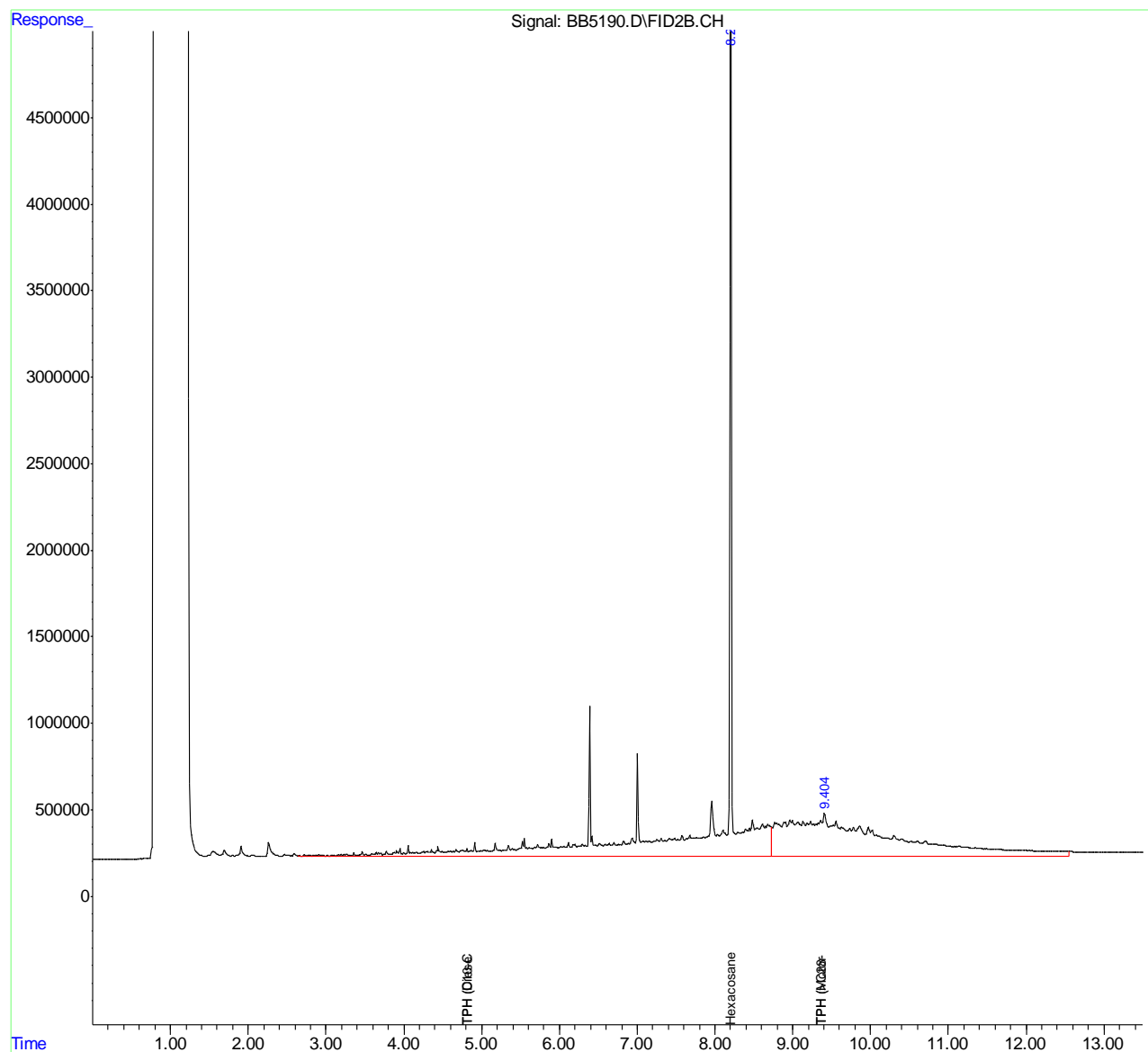
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5190.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 9:43 pm
Operator : MAIT
Sample : C46435-2
Misc : OP14613,GBB170,30.17,,,1,1,S
ALS Vial : 88 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:16:21 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.12
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5191.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 10:03 pm
Operator : MAIT
Sample : C46435-3
Misc : OP14613,GBB170,30.05,,,1,1,S
ALS Vial : 89 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:18:22 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	70519422	71.000 ppm
Spiked Amount	100.000	Recovery	= 71.00%
Target Compounds			
2) H TPH (C10-C28)	4.817	340657150	346.083 ppm
3) H TPH (>C28-C40)	9.372	149022221	273.821 ppm
6) H TPH (Diesel)	4.817	342728026	348.306 ppm
7) H TPH (Motor Oil)	9.372	149371730	274.276 ppm

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

8.13
8

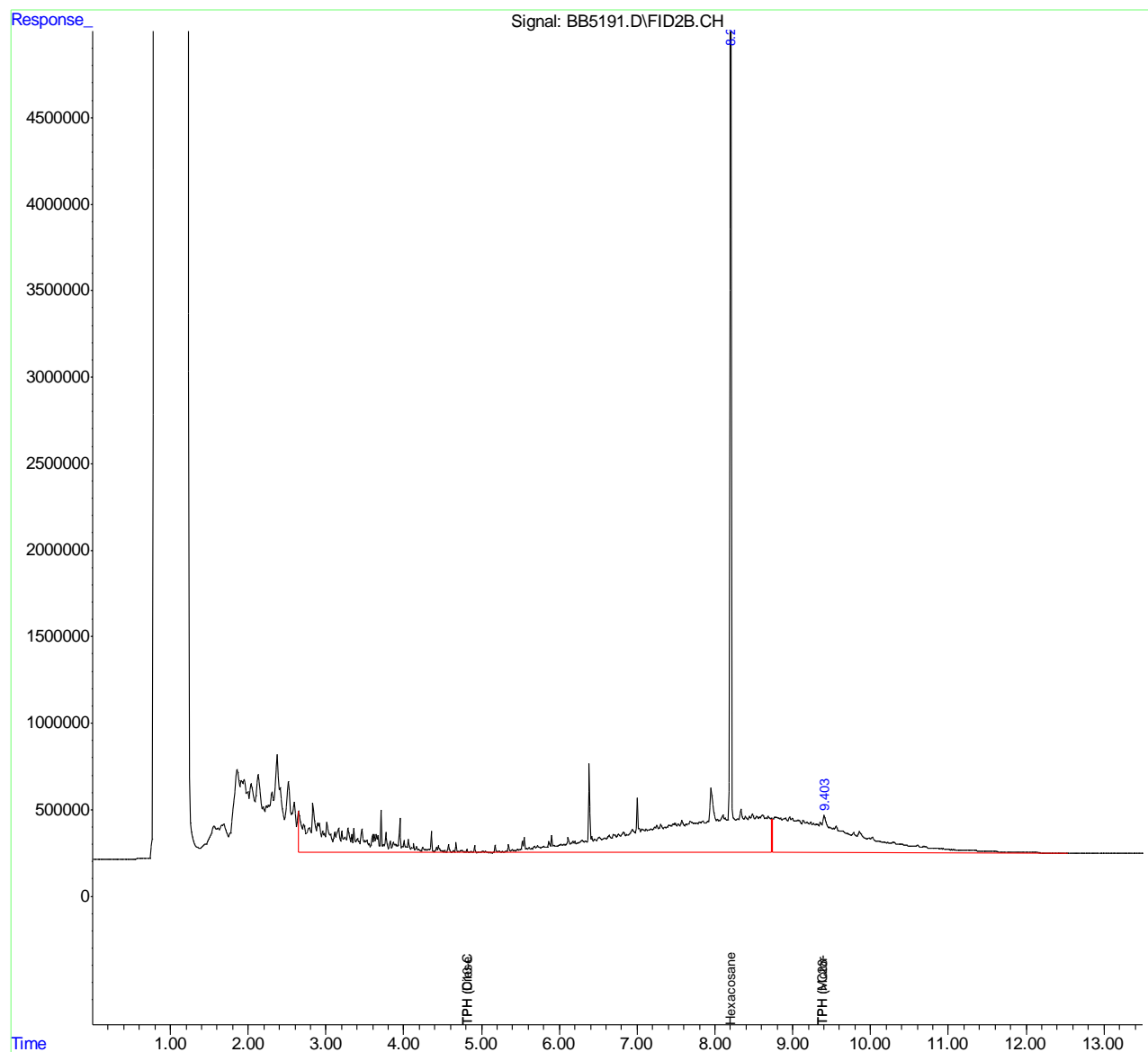
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5191.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 10:03 pm
Operator : MAIT
Sample : C46435-3
Misc : OP14613,GBB170,30.05,,,1,1,S
ALS Vial : 89 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:18:22 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.1.3
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5192.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 10:23 pm
Operator : MAIT
Sample : C46435-4
Misc : OP14613,GBB170,30.27,,,1,1,S
ALS Vial : 90 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:18:51 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	75828761	76.345 ppm
Spiked Amount	100.000	Recovery	= 76.34%
Target Compounds			
2) H TPH (C10-C28)	4.817	43877164	44.576 ppm
3) H TPH (>C28-C40)	9.372	42031845	77.231 ppm
6) H TPH (Diesel)	4.817	43877164	44.591 ppm
7) H TPH (Motor Oil)	9.372	42031845	77.179 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

8.14
8

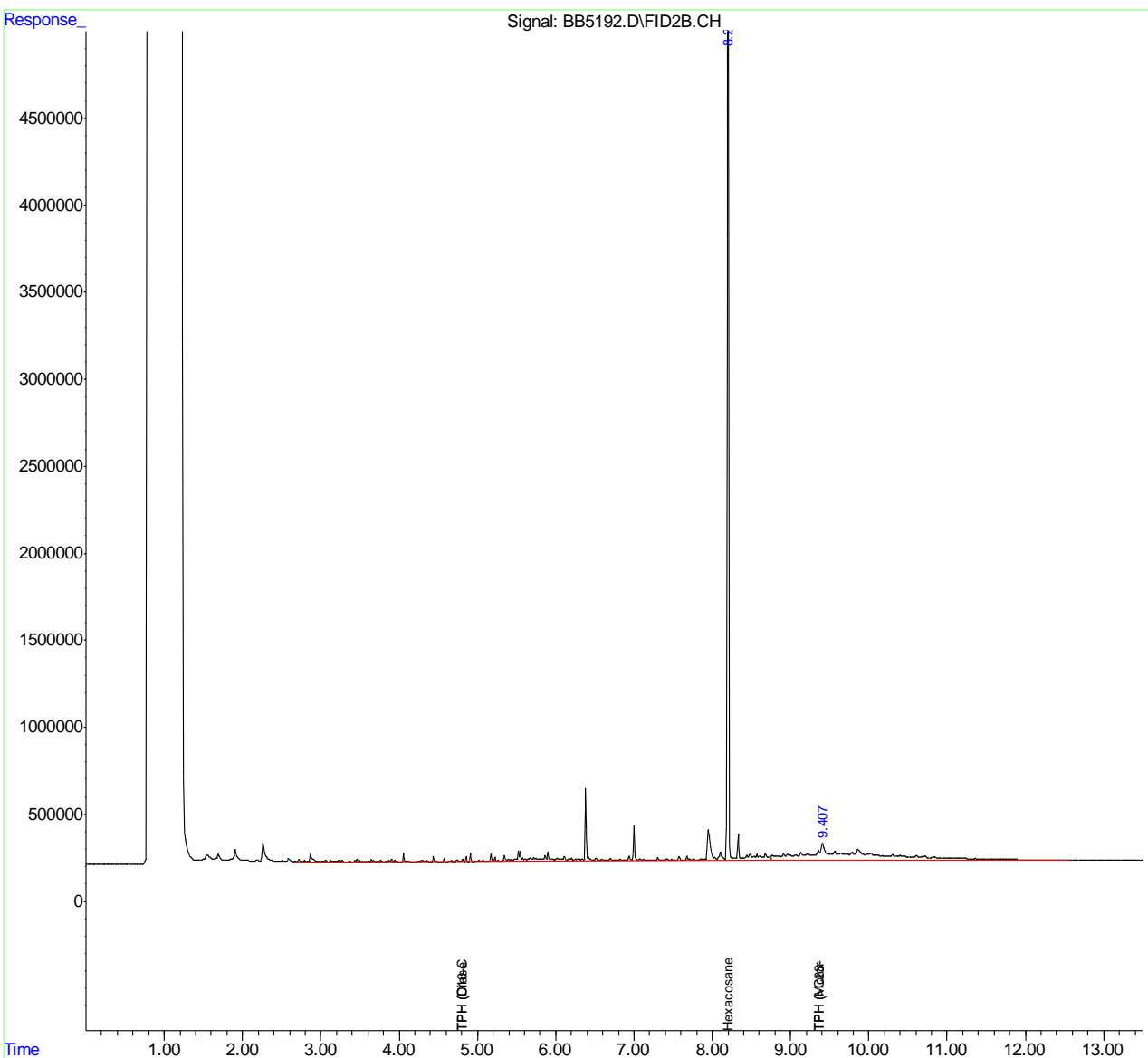
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5192.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 10:23 pm
Operator : MAIT
Sample : C46435-4
Misc : OP14613,GBB170,30.27,,,1,1,S
ALS Vial : 90 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:18:51 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.1.4
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5210.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 4:22 am
Operator : MAIT
Sample : C46435-7
Misc : OP14613,GBB170,30.24,,,1,2,S
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:46:12 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.202	42220269	42.508 ppm
Spiked Amount	100.000	Recovery	= 42.51%
Target Compounds			
2) H TPH (C10-C28)	4.817	493570398	501.431 ppm
3) H TPH (>C28-C40)	9.372	667923625	1227.276 ppm
6) H TPH (Diesel)	4.817	496441167	504.521 ppm
7) H TPH (Motor Oil)	9.372	672708723	1235.226 ppm

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

8.1.5
8

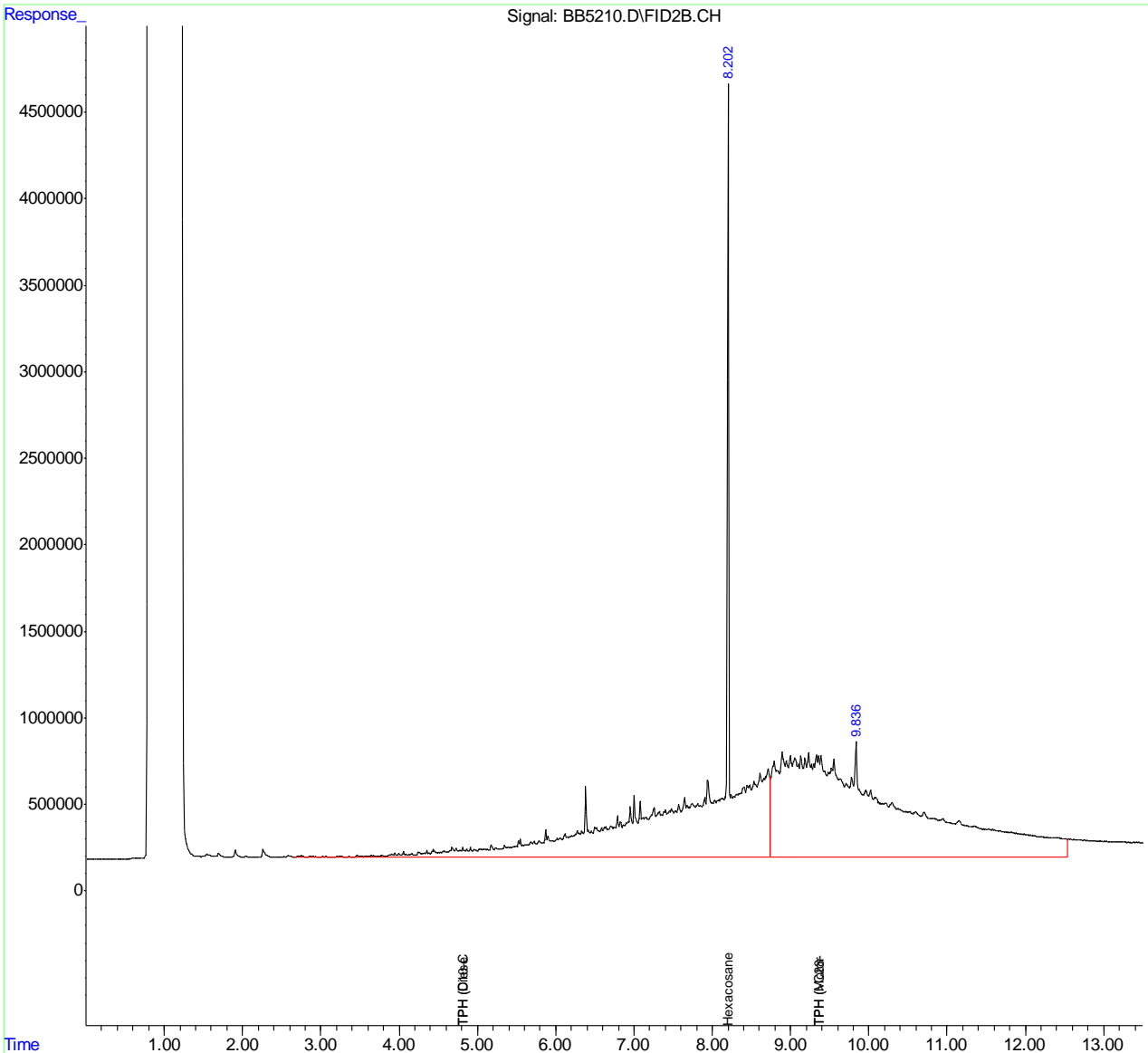
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5210.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 4:22 am
Operator : MAIT
Sample : C46435-7
Misc : OP14613,GBB170,30.24,,,1,2,S
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:46:12 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.1.5
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5211.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 4:42 am
Operator : MAIT
Sample : C46435-8
Misc : OP14613,GBB170,30.12,,,1,2,S
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:49:01 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.200	39957855	40.230 ppm
Spiked Amount	100.000	Recovery	= 40.23%
Target Compounds			
2) H TPH (C10-C28)	4.817	80337134	81.617 ppm
3) H TPH (>C28-C40)	9.372	206308883	379.082 ppm
6) H TPH (Diesel)	4.817	78948707	80.234 ppm
7) H TPH (Motor Oil)	9.372	204194479	374.941 ppm

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

8.16
8

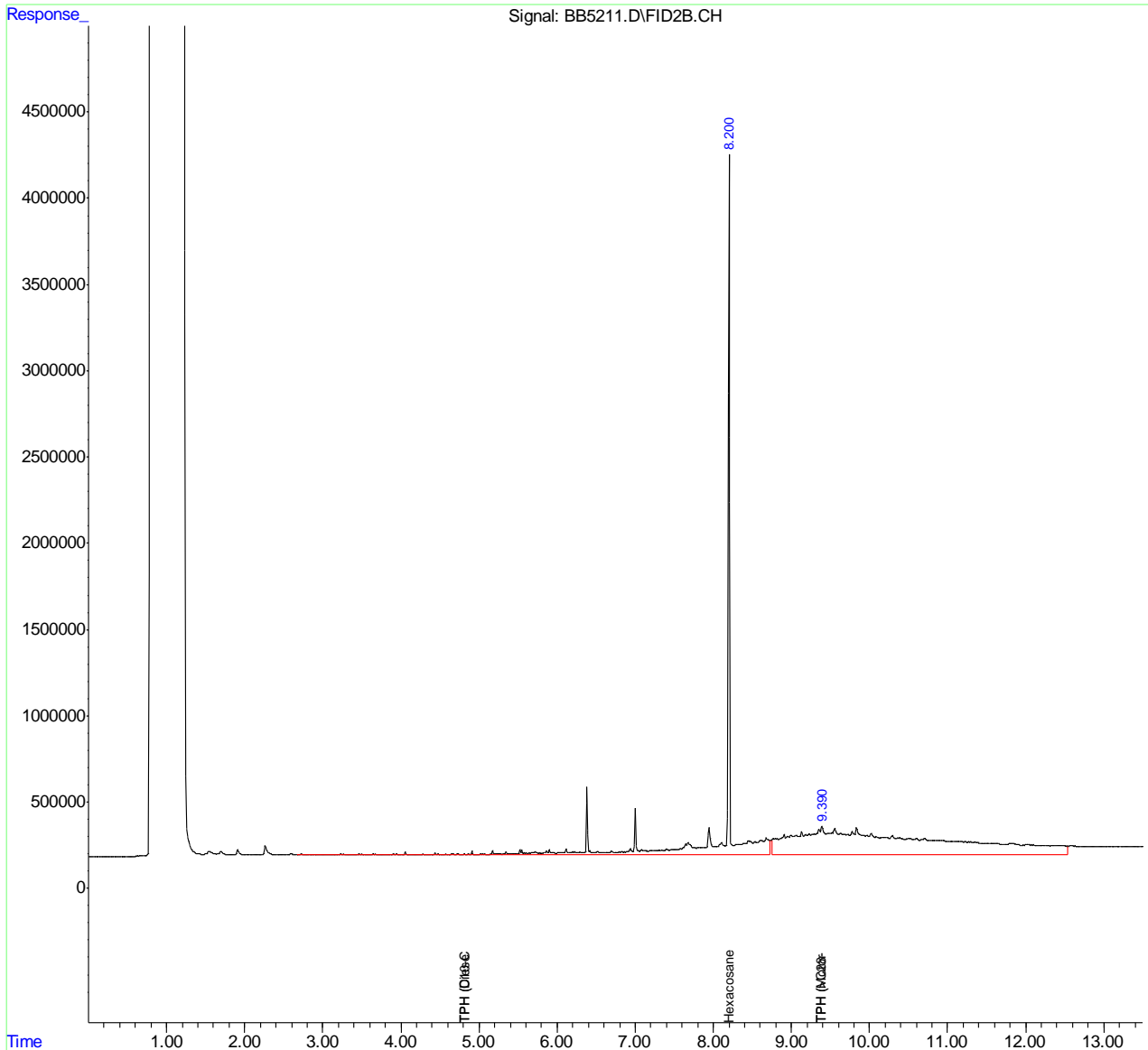
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5211.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 4:42 am
Operator : MAIT
Sample : C46435-8
Misc : OP14613,GBB170,30.12,,,1,2,S
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:49:01 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.16
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5195.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 11:23 pm
Operator : MAIT
Sample : C46435-9
Misc : OP14613,GBB170,30.17,,,1,1,S
ALS Vial : 93 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:19:51 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	71558752	72.046 ppm
Spiked Amount	100.000	Recovery	= 72.05%
Target Compounds			
2) H TPH (C10-C28)	4.817	30395290	30.879 ppm
3) H TPH (>C28-C40)	9.372	25677544	47.181 ppm
6) H TPH (Diesel)	4.817	30395290	30.890 ppm
7) H TPH (Motor Oil)	9.372	25677544	47.149 ppm

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

8.17
8

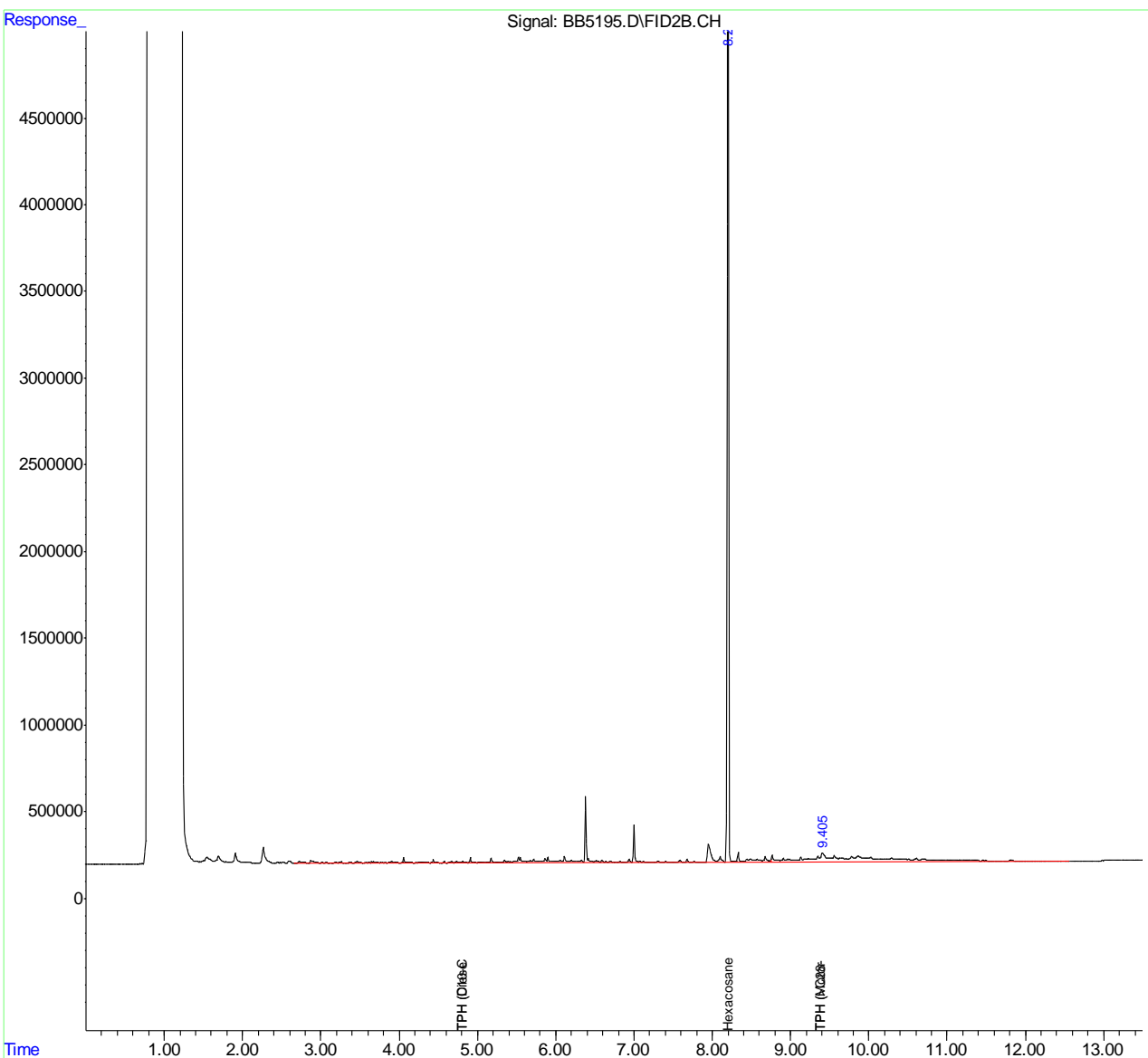
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5195.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 11:23 pm
Operator : MAIT
Sample : C46435-9
Misc : OP14613,GBB170,30.17,,,1,1,S
ALS Vial : 93 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:19:51 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.1.7
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5196.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 11:43 pm
Operator : MAIT
Sample : C46435-10
Misc : OP14613,GBB170,30.23,,,1,1,S
ALS Vial : 94 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:20:03 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	72548735	73.043 ppm
Spiked Amount 100.000		Recovery =	73.04%
Target Compounds			
2) H TPH (C10-C28)	4.817	33522010	34.056 ppm
3) H TPH (>C28-C40)	9.372	24028644	44.151 ppm
6) H TPH (Diesel)	4.817	33522010	34.068 ppm
7) H TPH (Motor Oil)	9.372	24028644	44.121 ppm

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

8.18
8

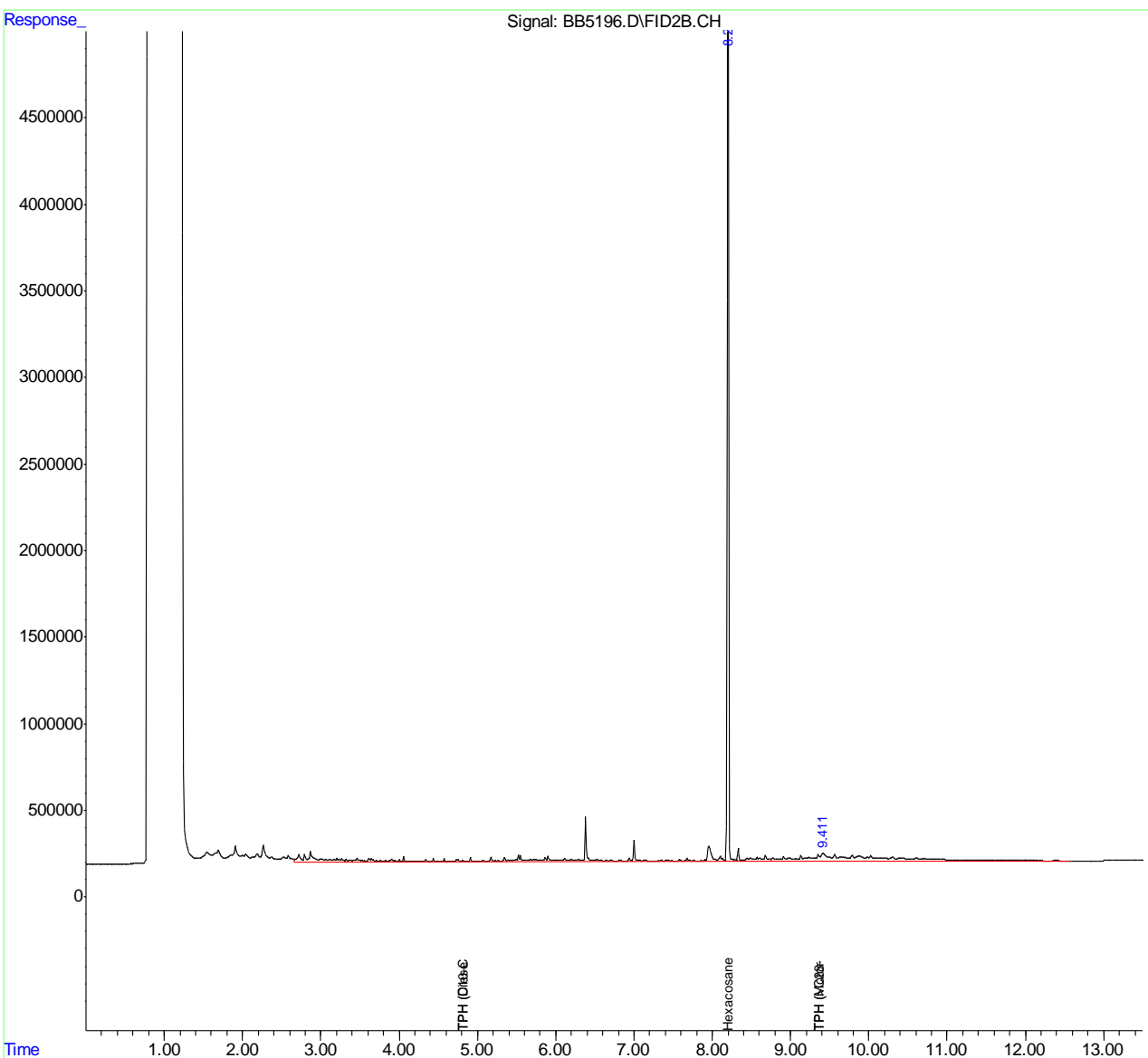
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5196.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 11:43 pm
Operator : MAIT
Sample : C46435-10
Misc : OP14613,GBB170,30.23,,,1,1,S
ALS Vial : 94 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:20:03 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.18
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5198.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 12:23 am
Operator : MAIT
Sample : C46435-11
Misc : OP14613,GBB170,30.07,,,1,1,S
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:20:35 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	74218844	74.725 ppm
Spiked Amount 100.000		Recovery =	74.72%
Target Compounds			
2) H TPH (C10-C28)	4.817	30883251	31.375 ppm
3) H TPH (>C28-C40)	9.372	31411515	57.717 ppm
6) H TPH (Diesel)	4.817	30883251	31.386 ppm
7) H TPH (Motor Oil)	9.372	31411515	57.678 ppm

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

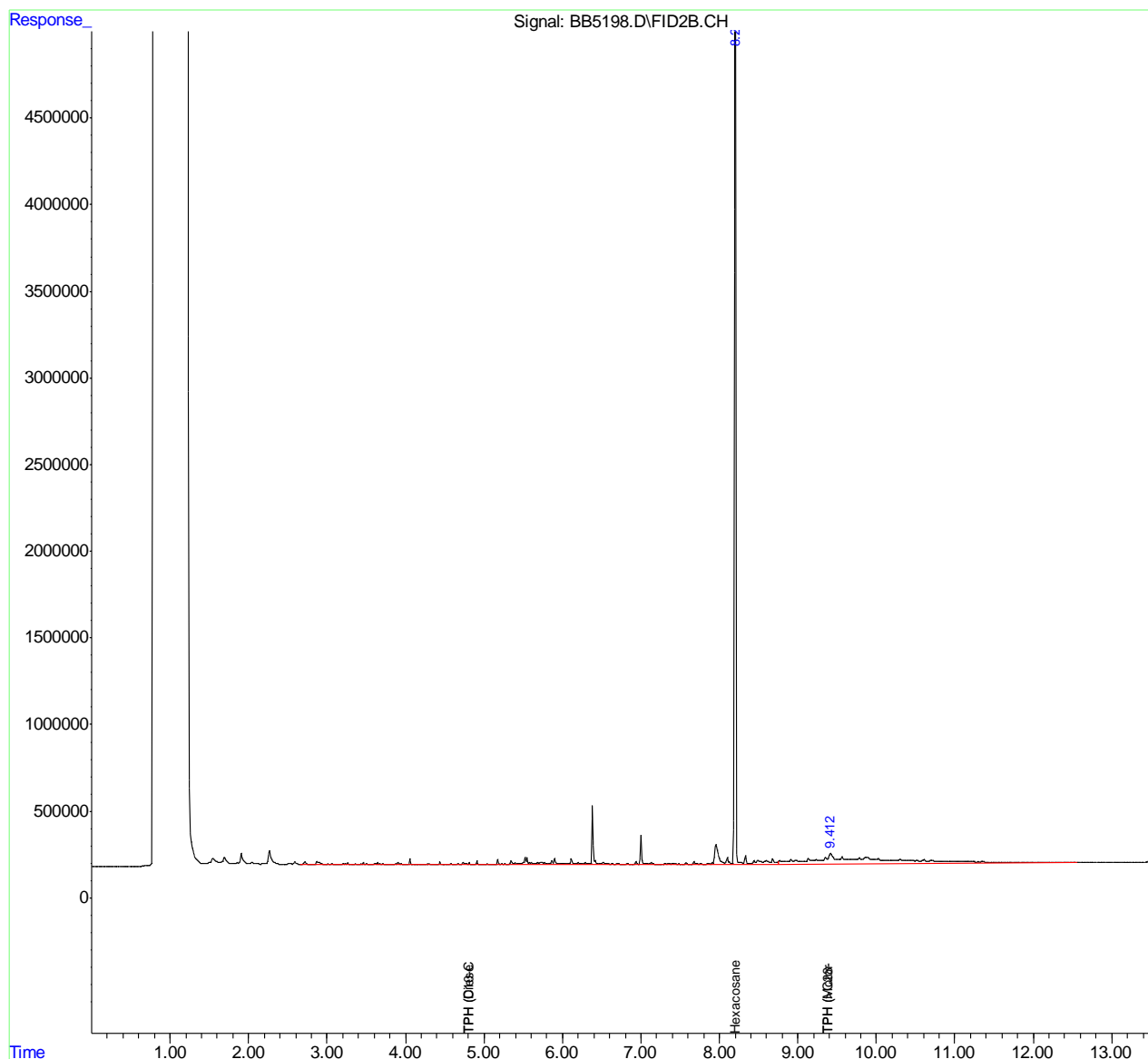
8.19
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5198.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 12:23 am
Operator : MAIT
Sample : C46435-11
Misc : OP14613,GBB170,30.07,,,1,1,S
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:20:35 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5199.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 12:43 am
Operator : MAIT
Sample : C46435-12
Misc : OP14613,GBB170,30.11,,,1,1,S
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:20:46 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	74750906	75.260 ppm
Spiked Amount	100.000	Recovery	= 75.26%
Target Compounds			
2) H TPH (C10-C28)	4.817	31298782	31.797 ppm
3) H TPH (>C28-C40)	9.372	43137353	79.263 ppm
6) H TPH (Diesel)	4.817	31298782	31.808 ppm
7) H TPH (Motor Oil)	9.372	43137353	79.209 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

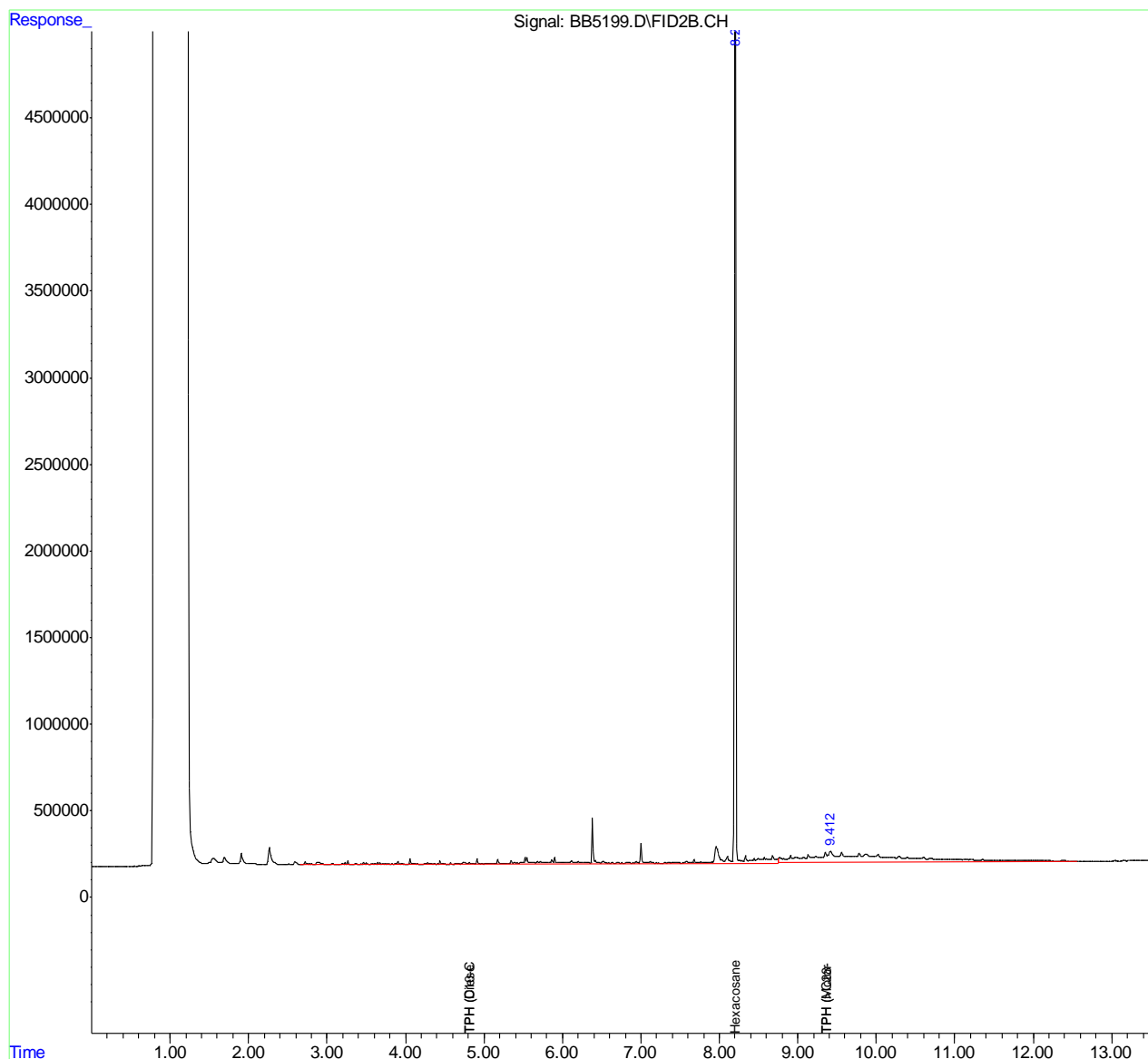
8.1.10
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5199.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 12:43 am
Operator : MAIT
Sample : C46435-12
Misc : OP14613,GBB170,30.11,,,1,1,S
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:20:46 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5200.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 1:03 am
Operator : MAIT
Sample : C46435-13
Misc : OP14613,GBB170,30.19,,,1,1,S
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:25:10 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.208	78739921	79.276 ppm
Spiked Amount	100.000	Recovery	= 79.28%
Target Compounds			
2) H TPH (C10-C28)	4.817	1051380714	1068.126 ppm
3) H TPH (>C28-C40)	9.372	601512063	1105.248 ppm
5) H TPH (Kerosene)	4.060	753204960	895.121 ppm
7) H TPH (Motor Oil)	9.372	1029199748	1889.814 ppm

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

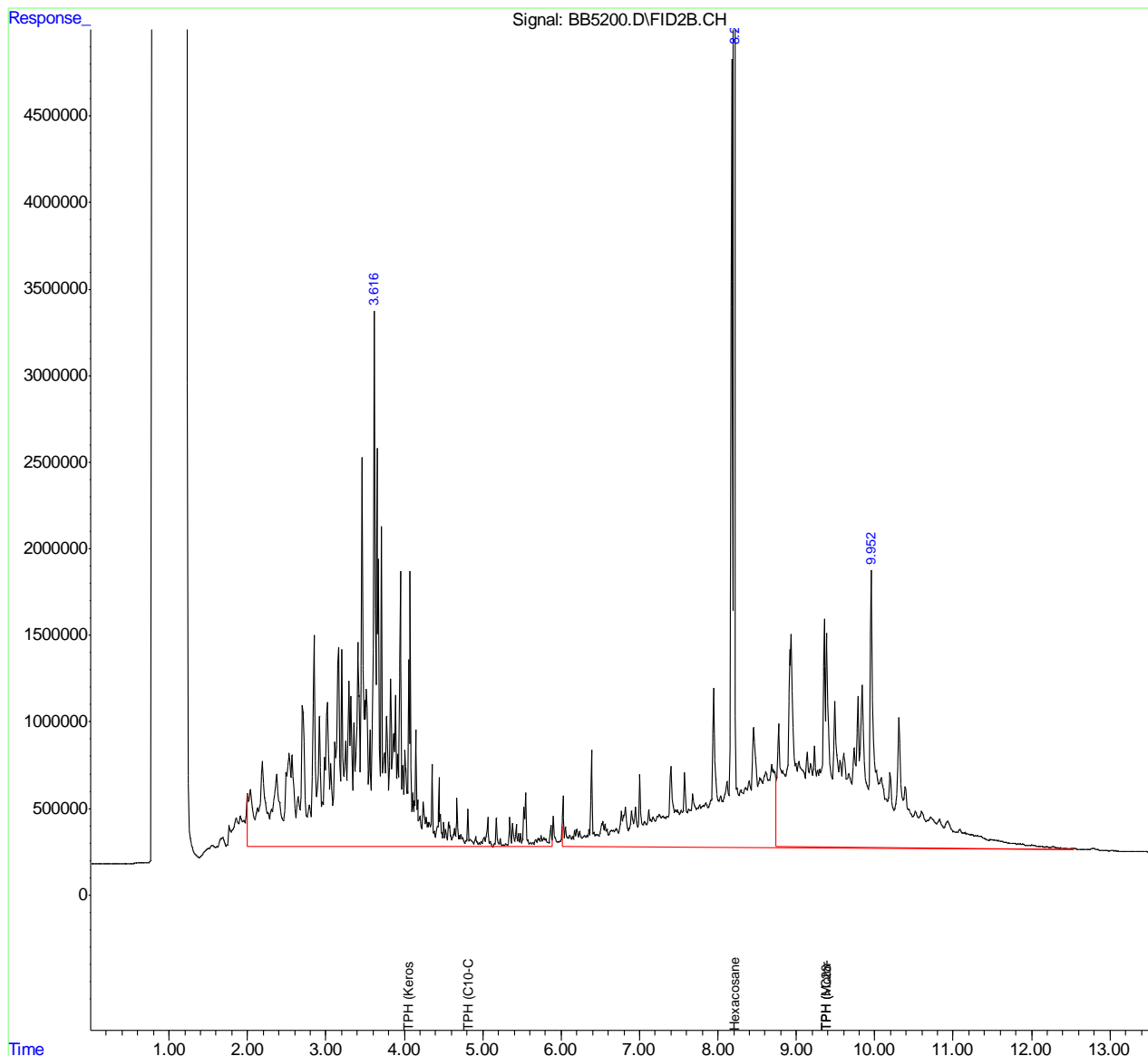
8.1.11
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
 Data File : BB5200.D
 Signal(s) : FID2B.CH
 Acq On : 10 Jul 2016 1:03 am
 Operator : MAIT
 Sample : C46435-13
 Misc : OP14613,GBB170,30.19,,,1,1,S
 ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Jul 11 17:25:10 2016
 Quant Method : C:\msdchem\1\METHODS\GBB169.M
 Quant Title : DRO calibration: from column
 QLast Update : Fri Jul 08 13:39:47 2016
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm



8.1.11
 8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5212.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 5:02 am
Operator : MAIT
Sample : C46435-14
Misc : OP14613,GBB170,30.11,,,1,2,S
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:51:55 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.202	40306442	40.581 ppm
Spiked Amount 100.000		Recovery =	40.58%
Target Compounds			
2) H TPH (C10-C28)	4.817	604392340	614.018 ppm
3) H TPH (>C28-C40)	9.372	442334638	812.767 ppm
5) H TPH (Kerosene)	4.060	276491387	328.587 ppm
7) H TPH (Motor Oil)	9.372	821571595	1508.567 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

8.1.12
8

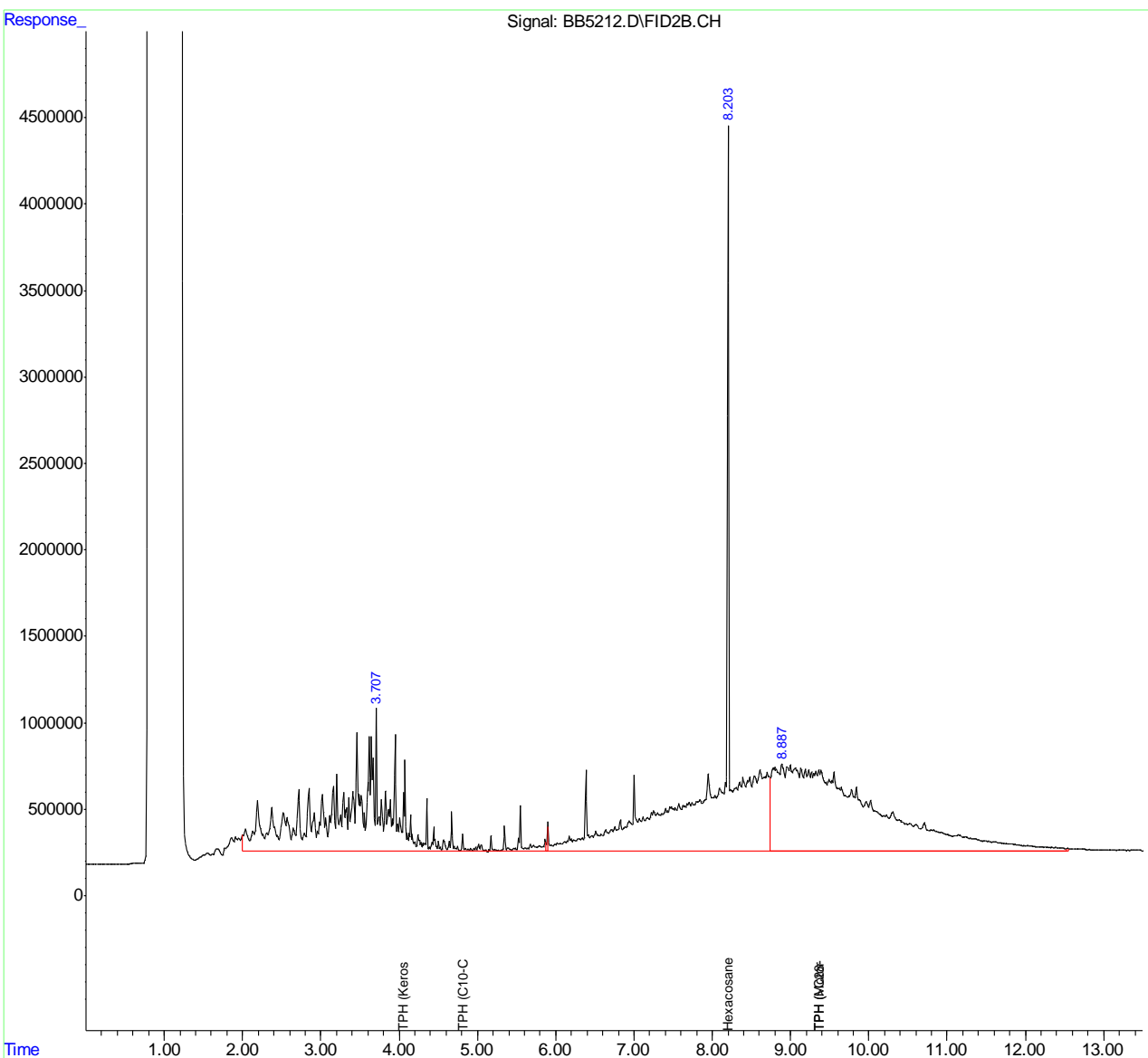
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5212.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 5:02 am
Operator : MAIT
Sample : C46435-14
Misc : OP14613,GBB170,30.11,,,1,2,S
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:51:55 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.1.12
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5201.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 1:23 am
Operator : MAIT
Sample : C46435-15
Misc : OP14613,GBB170,30.07,,,1,1,S
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:25:55 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	74350036	74.857 ppm
Spiked Amount 100.000		Recovery =	74.86%
Target Compounds			
2) H TPH (C10-C28)	4.817	508382003	516.479 ppm
3) H TPH (>C28-C40)	9.372	42644236	78.357 ppm
6) H TPH (Diesel)	4.817	508382003	516.656 ppm
7) H TPH (Motor Oil)	9.372	42644236	78.303 ppm

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

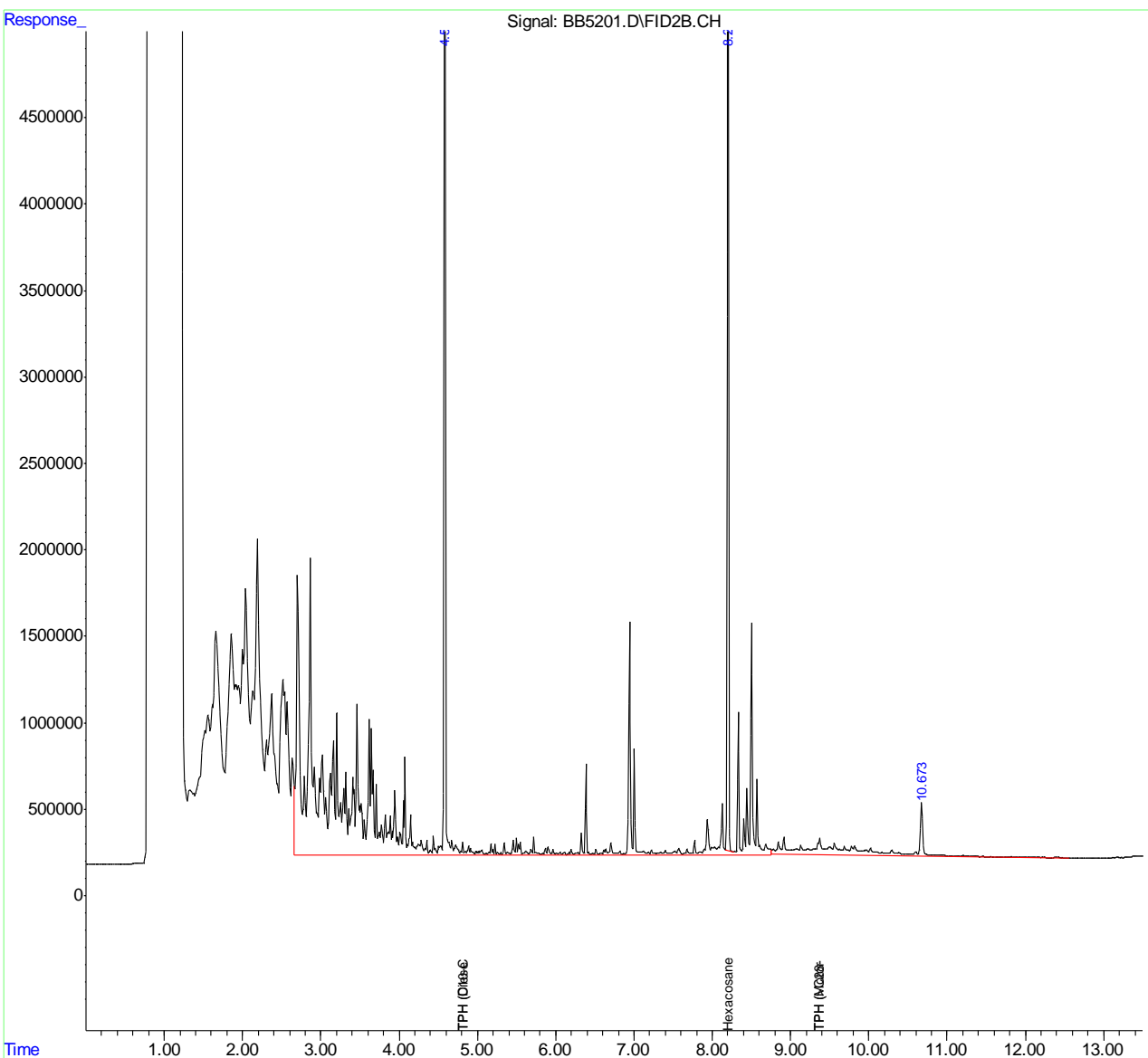
8.1.13
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5201.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 1:23 am
Operator : MAIT
Sample : C46435-15
Misc : OP14613,GBB170,30.07,,,1,1,S
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:25:55 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



8.1.13
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5202.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 1:43 am
Operator : MAIT
Sample : C46435-16
Misc : OP14613,GBB170,30.28,,,1,1,S
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:26:25 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	75289563	75.803 ppm
Spiked Amount 100.000		Recovery =	75.80%
Target Compounds			
2) H TPH (C10-C28)	4.817	43900669	44.600 ppm
3) H TPH (>C28-C40)	9.372	33217231	61.035 ppm
6) H TPH (Diesel)	4.817	43900669	44.615 ppm
7) H TPH (Motor Oil)	9.372	33217231	60.993 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

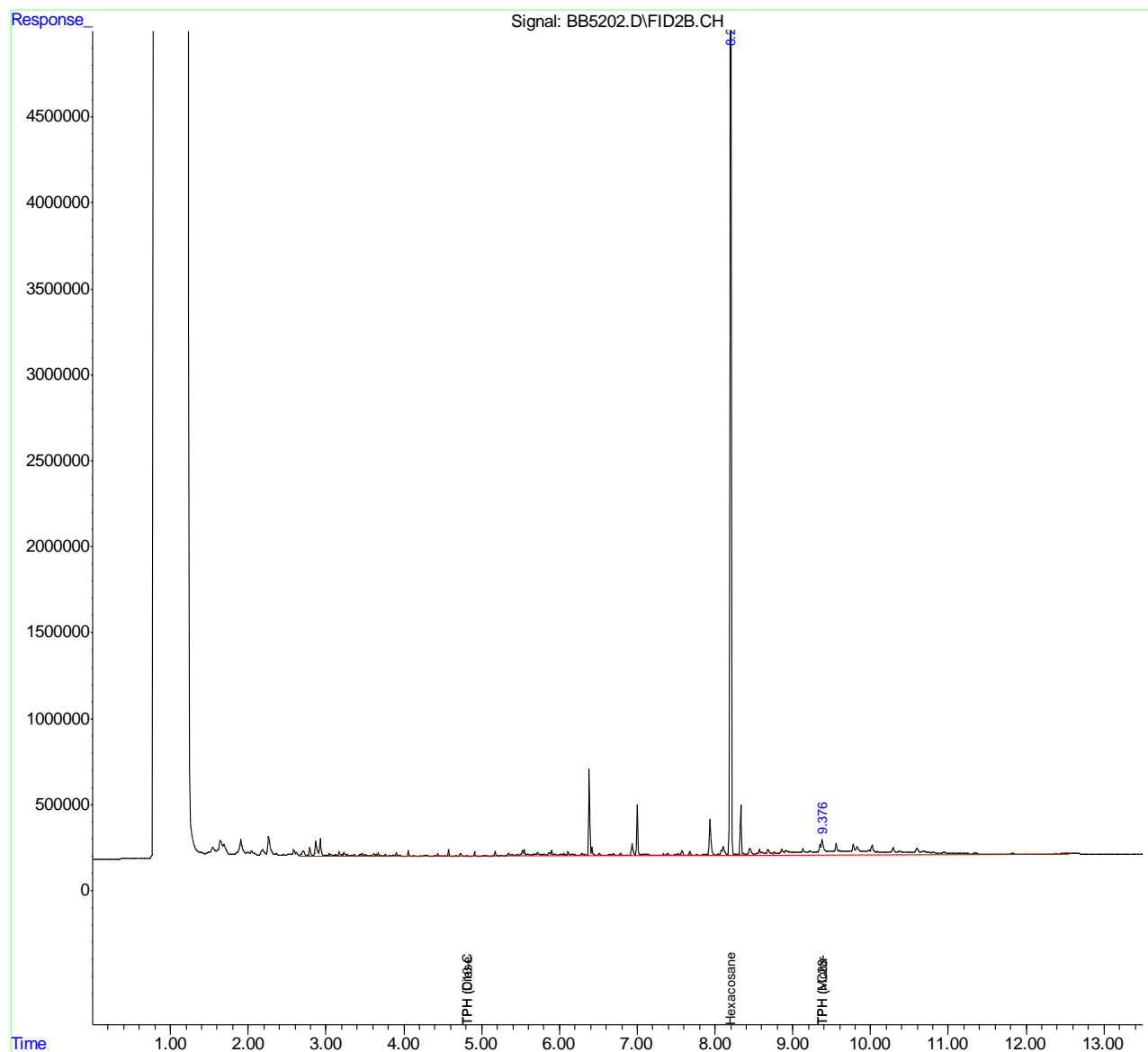
8.1.14
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5202.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 1:43 am
Operator : MAIT
Sample : C46435-16
Misc : OP14613,GBB170,30.28,,,1,1,S
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:26:25 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



8.1.14
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5203.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 2:03 am
Operator : MAIT
Sample : C46435-17
Misc : OP14613,GBB170,30.17,,,1,1,S
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:26:39 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.205	76806454	77.330 ppm
Spiked Amount	100.000	Recovery =	77.33%
Target Compounds			
2) H TPH (C10-C28)	4.817	190923723	193.965 ppm
3) H TPH (>C28-C40)	9.372	29658795	54.497 ppm
6) H TPH (Diesel)	4.817	190923723	194.031 ppm
7) H TPH (Motor Oil)	9.372	29658795	54.459 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

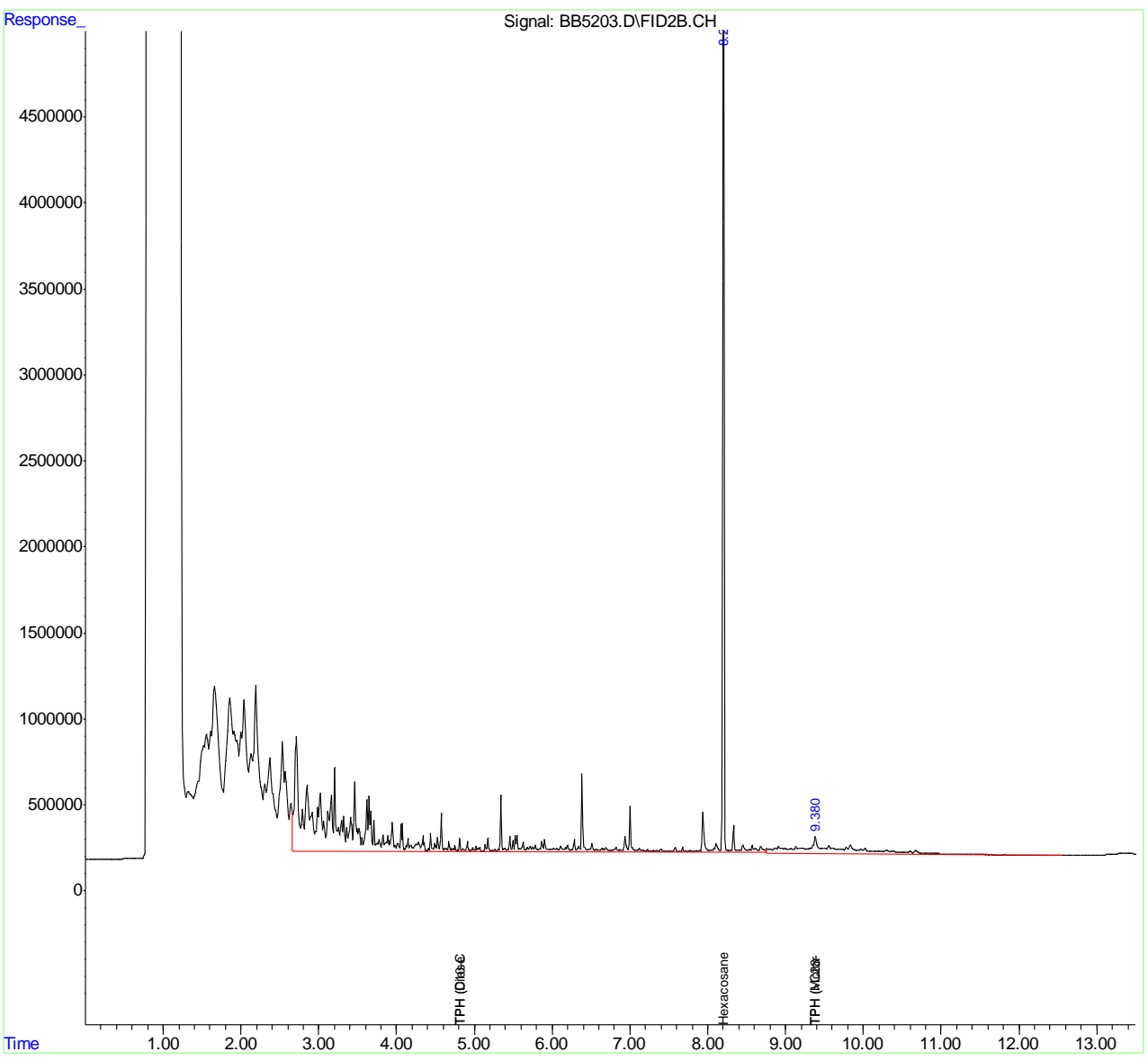
8.1.15
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5203.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 2:03 am
Operator : MAIT
Sample : C46435-17
Misc : OP14613,GBB170,30.17,,,1,1,S
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:26:39 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



8.115
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5204.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 2:23 am
Operator : MAIT
Sample : C46435-18
Misc : OP14613,GBB170,30.16,,,1,1,S
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:27:23 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.203	73394565	73.895 ppm
Spiked Amount	100.000	Recovery	= 73.89%
Target Compounds			
2) H TPH (C10-C28)	4.817	23603756	23.980 ppm
3) H TPH (>C28-C40)	9.372	15467646	28.421 ppm
6) H TPH (Diesel)	4.817	23603756	23.988 ppm
7) H TPH (Motor Oil)	9.372	15781477	28.978 ppm

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

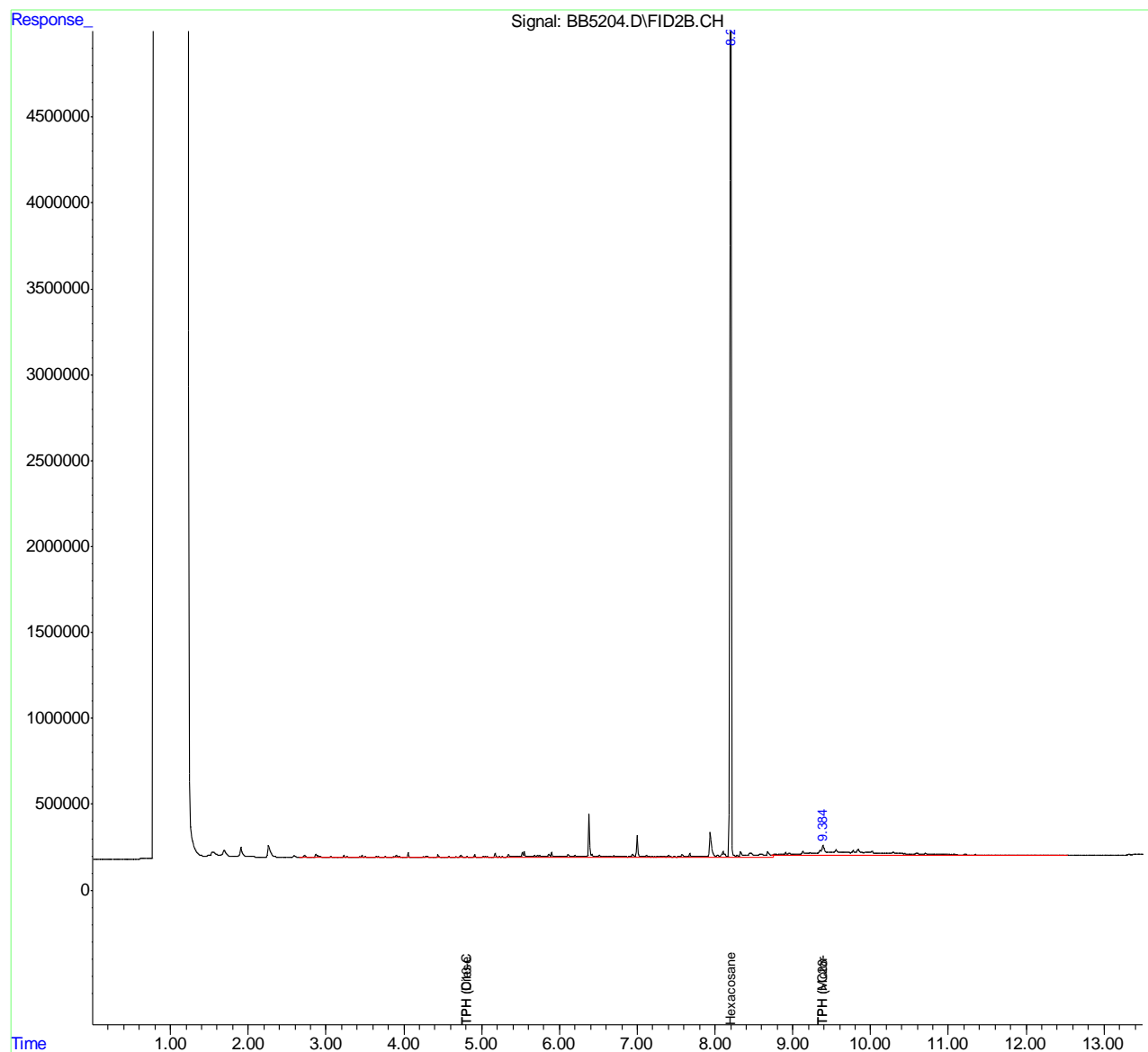
8.1.16
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5204.D
Signal(s) : FID2B.CH
Acq On : 10 Jul 2016 2:23 am
Operator : MAIT
Sample : C46435-18
Misc : OP14613,GBB170,30.16,,,1,1,S
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:27:23 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



8.116
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5187.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 8:43 pm
Operator : MAIT
Sample : OP14613-MB
Misc : OP14613,GBB170,30.00,,,1,1,S
ALS Vial : 85 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:07:52 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.204	76272052	76.792 ppm
Spiked Amount 100.000		Recovery =	76.79%
Target Compounds			
2) H TPH (C10-C28)	4.817	21727536	22.074 ppm
3) H TPH (>C28-C40)	9.372	26970826	49.558 ppm
6) H TPH (Diesel)	4.817	21727536	22.081 ppm
7) H TPH (Motor Oil)	9.372	26970826	49.524 ppm

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

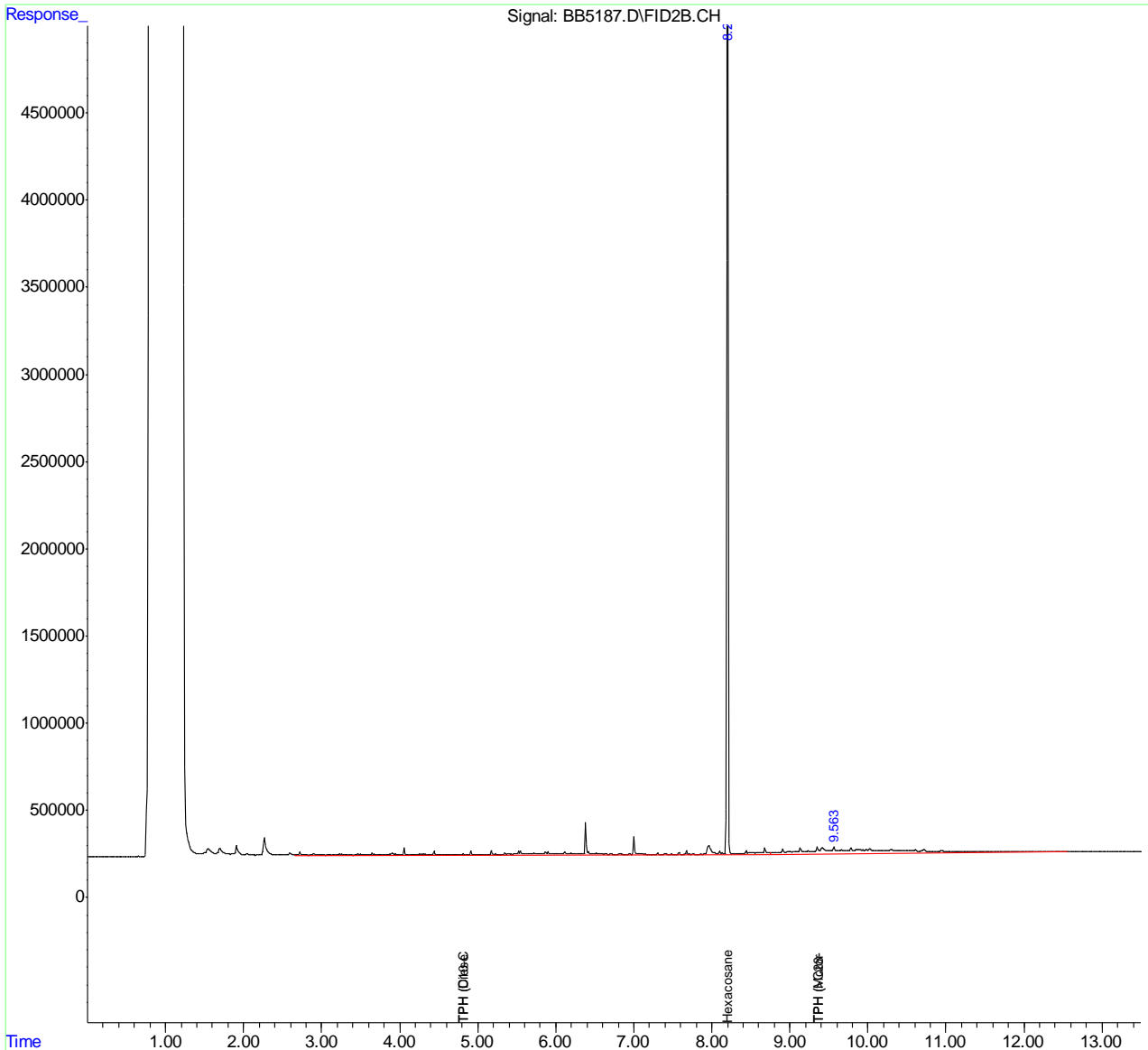
8.2.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB170\
Data File : BB5187.D
Signal(s) : FID2B.CH
Acq On : 09 Jul 2016 8:43 pm
Operator : MAIT
Sample : OP14613-MB
Misc : OP14613,GBB170,30.00,,,1,1,S
ALS Vial : 85 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 11 17:07:52 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C46435
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 07/11/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.54	1.5		
Antimony	2.0	.16	.18		
Arsenic	2.0	.17	.17		
Barium	20	.025	.09		
Beryllium	1.0	.019	.01		
Boron	10	.27	.15		
Cadmium	1.0	.032	.031		
Calcium	500	1.9	4.5		
Chromium	1.0	.12	.054		
Cobalt	1.0	.049	.025		
Copper	2.5	.1	.15		
Iron	20	.51	.76		
Lead	2.0	.11	.14	0.050	<2.0
Magnesium	500	3.7	2.1		
Manganese	1.5	.021	.026		
Molybdenum	2.0	.11	.04		
Nickel	1.0	.045	.047		
Potassium	1000	2.9	4.6		
Selenium	2.0	.49	.33		
Silicon	20	.22	.43		
Silver	1.0	.089	.067		
Sodium	1000	2.6	1.2		
Strontium	1.0	.014	.018		
Thallium	2.0	.39	.12		
Tin	50	.3	.28		
Titanium	1.0	.076	.13		
Vanadium	1.0	.043	.074		
Zinc	2.0	.11	.22		

Associated samples MP11595: C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46435
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46435-18 Original MS	SpikeLot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	3.1	44.3	45.9	89.8 75-125
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11595: C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.1.2
 9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46435
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46435-18 Original MSD	Spikelot MPIR5	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron					
Lead	3.1	45.5	46.3	91.6	2.7 20
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	anr				
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

Associated samples MP11595: C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.1.2
 9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C46435
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	44.2	50	88.4	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11595: C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

9.1.3
 9

SERIAL DILUTION RESULTS SUMMARY

Login Number: C46435
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11595
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/11/16

Metal	C46435-18 Original SDL 1:5	%DIF	QC Limits
-------	-------------------------------	------	--------------

Aluminum			
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron			
Lead	31.9	37.9	18.8 (a) 0-10
Magnesium			
Manganese			
Molybdenum	anr		
Nickel	anr		
Potassium			
Selenium	anr		
Silicon			
Silver	anr		
Sodium			
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

Associated samples MP11595: C46435-1, C46435-2, C46435-3, C46435-4, C46435-7, C46435-8, C46435-9, C46435-10, C46435-11, C46435-12, C46435-13, C46435-14, C46435-15, C46435-16, C46435-17, C46435-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

9.1.4
9

Technical Report for

ATC Group Services

Premier Hyundai 2820 Broadway Oakland

SGS Accutest Job Number: C46436

Sampling Date: 07/07/16

Report to:

ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA
gabe.stivala@atcassociates.com

ATTN: Gabe Stivala

Total number of pages in report: **35**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

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3

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Sample Summary

ATC Group Services

Job No: C46436

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
C46436-1	07/07/16	12:00 JK	07/07/16	AQ	Ground Water	B27W
C46436-2	07/07/16	12:10 JK	07/07/16	AQ	Ground Water	B29W

Summary of Hits

Job Number: C46436
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/07/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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C46436-1 B27W

Acetone ^a	88.9	20	4.0	ug/l	SW846 8260B
Benzene ^a	11.4	1.0	0.20	ug/l	SW846 8260B
n-Butylbenzene ^a	1.8 J	2.0	0.20	ug/l	SW846 8260B
sec-Butylbenzene ^a	2.1	2.0	0.20	ug/l	SW846 8260B
Chloroethane ^a	0.80 J	1.0	0.20	ug/l	SW846 8260B
Chloroform ^a	1.0	1.0	0.20	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	1.0	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene ^a	65.5	1.0	0.20	ug/l	SW846 8260B
2-Hexanone ^a	2.4 J	10	2.0	ug/l	SW846 8260B
Isopropylbenzene ^a	19.0	1.0	0.20	ug/l	SW846 8260B
p-Isopropyltoluene ^a	2.5	2.0	0.20	ug/l	SW846 8260B
Methyl chloride ^a	0.32 J	1.0	0.30	ug/l	SW846 8260B
Methyl ethyl ketone ^a	20.1	10	2.0	ug/l	SW846 8260B
Naphthalene ^a	8.3	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene ^a	22.7	2.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene ^a	5.1	2.0	0.20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene ^a	14.2	2.0	0.20	ug/l	SW846 8260B
Tetrachloroethylene ^a	0.31 J	1.0	0.30	ug/l	SW846 8260B
Toluene ^a	1.8	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene ^a	53.1	1.0	0.20	ug/l	SW846 8260B
Xylene (total) ^a	18.3	2.0	0.46	ug/l	SW846 8260B
TPH-GRO (C6-C10) ^a	5710	500	250	ug/l	SW846 8260B

C46436-2 B29W

Benzene ^a	2820	100	20	ug/l	SW846 8260B
1,2-Dichloroethane ^a	60.1 J	100	20	ug/l	SW846 8260B
Ethylbenzene ^a	1390	100	20	ug/l	SW846 8260B
Isopropylbenzene ^a	110	100	20	ug/l	SW846 8260B
Naphthalene ^a	104 J	500	50	ug/l	SW846 8260B
n-Propylbenzene ^a	142 J	200	20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene ^a	713	200	20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene ^a	239	200	20	ug/l	SW846 8260B
Toluene ^a	4160	100	20	ug/l	SW846 8260B
Xylene (total) ^a	6800	200	46	ug/l	SW846 8260B
TPH-GRO (C6-C10) ^a	96700	5000	2500	ug/l	SW846 8260B

(a) Sample vial contained more than 0.5cm of sediment.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: B27W		Date Sampled: 07/07/16
Lab Sample ID: C46436-1		Date Received: 07/07/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	R40972.D	1	07/08/16	CV	n/a	n/a	VR1577
Run #2 ^a	R41030.D	10	07/12/16	CV	n/a	n/a	VR1581

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	88.9	20	4.0	ug/l	
71-43-2	Benzene	11.4	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	1.8	2.0	0.20	ug/l	J
135-98-8	sec-Butylbenzene	2.1	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.80	1.0	0.20	ug/l	J
67-66-3	Chloroform	1.0	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.0	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B27W	Date Sampled:	07/07/16
Lab Sample ID:	C46436-1	Date Received:	07/07/16
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	65.5	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	2.4	10	2.0	ug/l	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	19.0	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	2.5	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	0.32	1.0	0.30	ug/l	J
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	20.1	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	8.3	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	22.7	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	5.1	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	14.2	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.31	1.0	0.30	ug/l	J
108-88-3	Toluene	1.8	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	53.1	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	18.3	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	5710 ^b	500	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	108%	80-123%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B27W	
Lab Sample ID: C46436-1	Date Sampled: 07/07/16
Matrix: AQ - Ground Water	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%	102%	88-112%
460-00-4	4-Bromofluorobenzene	97%	95%	79-114%

- (a) Sample vial contained more than 0.5cm of sediment.
- (b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29W		Date Sampled: 07/07/16
Lab Sample ID: C46436-2		Date Received: 07/07/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	R41031.D	100	07/12/16	CV	n/a	n/a	VR1581
Run #2							

Run #	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2000	400	ug/l	
71-43-2	Benzene	2820	100	20	ug/l	
108-86-1	Bromobenzene	ND	100	20	ug/l	
74-97-5	Bromochloromethane	ND	100	20	ug/l	
75-27-4	Bromodichloromethane	ND	100	20	ug/l	
75-25-2	Bromoform	ND	100	22	ug/l	
104-51-8	n-Butylbenzene	ND	200	20	ug/l	
135-98-8	sec-Butylbenzene	ND	200	20	ug/l	
98-06-6	tert-Butylbenzene	ND	200	28	ug/l	
108-90-7	Chlorobenzene	ND	100	20	ug/l	
75-00-3	Chloroethane	ND	100	20	ug/l	
67-66-3	Chloroform	ND	100	20	ug/l	
95-49-8	o-Chlorotoluene	ND	200	20	ug/l	
106-43-4	p-Chlorotoluene	ND	200	26	ug/l	
56-23-5	Carbon tetrachloride	ND	100	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	100	20	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	40	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	20	ug/l	
107-06-2	1,2-Dichloroethane	60.1	100	20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	100	20	ug/l	
142-28-9	1,3-Dichloropropane	ND	100	20	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	22	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	20	ug/l	
124-48-1	Dibromochloromethane	ND	100	20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	100	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	20	ug/l	
541-73-1	m-Dichlorobenzene	ND	100	20	ug/l	
95-50-1	o-Dichlorobenzene	ND	100	20	ug/l	
106-46-7	p-Dichlorobenzene	ND	100	20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B29W	
Lab Sample ID: C46436-2	Date Sampled: 07/07/16
Matrix: AQ - Ground Water	Date Received: 07/07/16
Method: SW846 8260B	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) Sample vial contained more than 0.5cm of sediment.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Report To					Analysis Request																								
Attn: <u>Gabe Strunk</u>																													
Company: <u>ATC Group Services</u>																													
Address: <u>915 Highland Pointe Dr. Suite 250, Roseville</u>																													
Email: <u>gabe.strunk@atcassociates.com</u>																													
Bill To:		Sampled By: <u>JK/HJ</u>																											
Attn:		Phone: <u>916-724-5257</u>																											
Sample ID	Date	Time	Mat. #	Preserv	Volatile Organics (VOCs) EPA 8260B	HVOCs by EPA 8260B	EPA 8260B: Gas <input type="checkbox"/> BTEX	5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	TEPH EPA 8013S <input type="checkbox"/> Silica Gel	Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Semivolatile Organics (SVOCs) EPA 8270C	PAHs by EPA 8270C	Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8031	PCBs <input type="checkbox"/> EPA 8032	CAM17 Metals (EPA 8010/7074/71)	Metals: <input type="checkbox"/> 60108 <input type="checkbox"/> 2007 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 2008 (ICP-MS):	WET (STC) <input type="checkbox"/> WET (D) <input type="checkbox"/> TOLP	Hex Chrom by EPA 7195 <input type="checkbox"/> EPA 7195	pH <input type="checkbox"/> 6040 <input type="checkbox"/> SM4500	Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Perchlorate by EPA 314.0 <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D	<input type="checkbox"/> Turbidity	Sample #	Number of Containers		
B27W	7-7-16	1200	W	HCl	<input checked="" type="checkbox"/>																							1	3
B29W	7-7-16	1210	W	HCl	<input checked="" type="checkbox"/>																							2	7

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:				
Project Name #: <u>"Precision Hydrocarbons"</u>	# of Containers:	Signature: <u>[Signature]</u>	Time: <u>1730</u>	Signature: <u>[Signature]</u>	Time: <u>1535</u>	Signature: <u>[Signature]</u>	Time: <u>1535</u>	Signature: _____	Time: _____			
PO#:	Head Space:	Signature: <u>[Signature]</u>	Time: <u>7-7-16</u>	Signature: <u>[Signature]</u>	Time: <u>7/7/16</u>	Signature: _____	Time: _____	Signature: _____	Time: _____			
Credit Card Y/N:	Temp: <u>3.4/4.4</u>	Printed Name: <u>ATC</u>	Date: _____	Printed Name: <u>SGS Accutest</u>	Date: _____	Printed Name: _____	Date: _____	Printed Name: _____	Date: _____			
If yes, please call with payment information ASAP		Company: <u>ATC</u>	Company: _____	Company: <u>SGS Accutest</u>	Company: _____	Company: _____	Company: _____	Company: _____	Company: _____			
1 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other: <u>Hold</u>	1) Received by:		2) Received by:		3) Received by:	
							Signature: <u>[Signature]</u>	Time: <u>1430</u>	Signature: <u>[Signature]</u>	Time: <u>1535</u>	Signature: _____	Time: _____
							Signature: <u>[Signature]</u>	Time: <u>7/7/16</u>	Signature: <u>[Signature]</u>	Time: <u>7/7/16</u>	Signature: _____	Time: _____
							Printed Name: <u>SGS Accutest</u>	Date: _____	Printed Name: <u>Tomu Ishimaru</u>	Date: <u>7/7/16</u>	Printed Name: _____	Date: <u>AZ</u>
							Company: <u>SGS Accutest</u>	Company: _____	Company: <u>SGS Accutest</u>	Company: _____	Company: _____	Company: _____

SGS Accutest Sample Receipt Summary

Job Number: C46436

Client: ATC GROUP SERVICES LLC

Project: 915 HIGHLAND POINTE DR. SUITE 250 ROSEVIL

Date / Time Received: 7/7/2016 3:35:00 PM

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (3.4/4.4)

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Therm ID: | IR3; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments Sample #2 ID: B29W on COC is Labeled as B27W on sample label. Sample is lined up with the time "12:10"

C46436: Chain of Custody

Page 2 of 2

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-MB	R40959.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-MB	R40959.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 80-123%

Method Blank Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-MB	R40959.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	106% 88-112%
460-00-4	4-Bromofluorobenzene	94% 79-114%

5.1.1
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Method Blank Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-MB	R41021.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-MB	R41021.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

Method Blank Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-MB	R41021.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 80-123%
2037-26-5	Toluene-D8	104% 88-112%
460-00-4	4-Bromofluorobenzene	95% 79-114%

5.1.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-BS	R40955.D	1	07/08/16	CV	n/a	n/a	VR1577
VR1577-BSD	R40956.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	88.0	110	88.3	110	0	55-147/17
71-43-2	Benzene	20	20.5	103	20.2	101	1	76-120/10
108-86-1	Bromobenzene	20	19.6	98	19.4	97	1	80-123/10
74-97-5	Bromochloromethane	20	20.1	101	20.1	101	0	79-124/10
75-27-4	Bromodichloromethane	20	20.7	104	20.4	102	1	75-121/10
75-25-2	Bromoform	20	15.7	79	15.6	78	1	62-127/10
104-51-8	n-Butylbenzene	20	22.4	112	21.6	108	4	74-129/10
135-98-8	sec-Butylbenzene	20	21.6	108	20.8	104	4	75-128/11
98-06-6	tert-Butylbenzene	20	19.4	97	18.8	94	3	74-127/11
108-90-7	Chlorobenzene	20	19.7	99	19.1	96	3	79-119/10
75-00-3	Chloroethane	20	22.3	112	21.9	110	2	60-115/14
67-66-3	Chloroform	20	21.6	108	21.5	108	0	75-122/10
95-49-8	o-Chlorotoluene	20	20.7	104	20.1	101	3	76-125/12
106-43-4	p-Chlorotoluene	20	21.6	108	21.2	106	2	76-126/11
56-23-5	Carbon tetrachloride	20	20.2	101	19.7	99	3	72-128/13
75-34-3	1,1-Dichloroethane	20	22.2	111	21.9	110	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	20.0	100	19.1	96	5	62-125/13
563-58-6	1,1-Dichloropropene	20	21.0	105	20.1	101	4	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	20	17.1	86	17.1	86	0	64-129/11
106-93-4	1,2-Dibromoethane	20	20.0	100	19.9	100	1	81-124/10
107-06-2	1,2-Dichloroethane	20	21.1	106	20.9	105	1	74-122/10
78-87-5	1,2-Dichloropropane	20	21.0	105	20.8	104	1	75-123/10
142-28-9	1,3-Dichloropropane	20	21.3	107	21.1	106	1	81-127/11
108-20-3	Di-Isopropyl ether	20	21.5	108	21.3	107	1	69-126/10
594-20-7	2,2-Dichloropropane	20	19.5	98	19.5	98	0	66-130/12
124-48-1	Dibromochloromethane	20	16.7	84	16.6	83	1	76-124/10
75-71-8	Dichlorodifluoromethane	20	20.5	103	19.1	96	7	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	21.5	108	21.2	106	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.2	106	20.9	105	1	76-131/10
541-73-1	m-Dichlorobenzene	20	19.9	100	19.5	98	2	79-121/10
95-50-1	o-Dichlorobenzene	20	19.5	98	19.1	96	2	79-120/10
106-46-7	p-Dichlorobenzene	20	19.7	99	19.4	97	2	79-120/10
156-60-5	trans-1,2-Dichloroethylene	20	18.9	95	18.6	93	2	67-116/11
10061-02-6	trans-1,3-Dichloropropene	20	20.6	103	20.6	103	0	73-125/10
100-41-4	Ethylbenzene	20	21.1	106	20.3	102	4	78-123/10
637-92-3	Ethyl Tert Butyl Ether	20	20.4	102	20.7	104	1	75-126/11

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-BS	R40955.D	1	07/08/16	CV	n/a	n/a	VR1577
VR1577-BSD	R40956.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	94.8	119	95.0	119	0	71-145/12
87-68-3	Hexachlorobutadiene	20	18.1	91	17.9	90	1	70-130/12
98-82-8	Isopropylbenzene	20	20.6	103	19.8	99	4	77-125/10
99-87-6	p-Isopropyltoluene	20	21.1	106	20.3	102	4	76-126/10
108-10-1	4-Methyl-2-pentanone	80	89.4	112	90.2	113	1	70-142/11
74-83-9	Methyl bromide	20	21.1	106	21.0	105	0	65-124/13
74-87-3	Methyl chloride	20	18.1	91	17.4	87	4	47-143/20
74-95-3	Methylene bromide	20	20.9	105	20.7	104	1	80-125/10
75-09-2	Methylene chloride	20	20.7	104	20.7	104	0	65-124/15
78-93-3	Methyl ethyl ketone	80	87.4	109	90.4	113	3	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	19.2	96	1	73-120/10
91-20-3	Naphthalene	20	18.8	94	18.8	94	0	66-120/12
103-65-1	n-Propylbenzene	20	21.5	108	20.7	104	4	75-125/10
100-42-5	Styrene	20	20.3	102	19.9	100	2	73-126/10
994-05-8	Tert-Amyl Methyl Ether	20	20.4	102	20.6	103	1	77-126/10
75-65-0	Tert-Butyl Alcohol	100	94.7	95	102	102	7	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	20	19.6	98	19.3	97	2	79-126/10
71-55-6	1,1,1-Trichloroethane	20	21.5	108	21.0	105	2	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	21.9	110	21.8	109	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	21.3	107	21.0	105	1	79-122/10
87-61-6	1,2,3-Trichlorobenzene	20	17.9	90	17.6	88	2	70-128/12
96-18-4	1,2,3-Trichloropropane	20	19.2	96	19.3	97	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	20	18.2	91	17.9	90	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	20.6	103	19.9	100	3	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	20.8	104	20.2	101	3	79-130/10
127-18-4	Tetrachloroethylene	20	19.3	97	18.7	94	3	72-124/13
108-88-3	Toluene	20	20.4	102	19.7	99	3	78-121/10
79-01-6	Trichloroethylene	20	20.8	104	20.2	101	3	75-119/10
75-69-4	Trichlorofluoromethane	20	22.5	113	21.9	110	3	68-130/19
75-01-4	Vinyl chloride	20	24.6	123	23.6	118	4	57-137/18
1330-20-7	Xylene (total)	60	60.7	101	58.8	98	3	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	110%	80-123%

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-BS	R40955.D	1	07/08/16	CV	n/a	n/a	VR1577
VR1577-BSD	R40956.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	103%	102%	88-112%
460-00-4	4-Bromofluorobenzene	100%	99%	79-114%

* = Outside of Control Limits.

5.2.1
 5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-BS	R41018.D	1	07/12/16	CV	n/a	n/a	VR1581
VR1581-BSD	R41019.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	84.6	106	78.7	98	7	55-147/17
71-43-2	Benzene	20	19.3	97	18.5	93	4	76-120/10
108-86-1	Bromobenzene	20	18.9	95	18.5	93	2	80-123/10
74-97-5	Bromochloromethane	20	19.6	98	19.0	95	3	79-124/10
75-27-4	Bromodichloromethane	20	19.9	100	19.4	97	3	75-121/10
75-25-2	Bromoform	20	15.5	78	15.4	77	1	62-127/10
104-51-8	n-Butylbenzene	20	20.3	102	19.1	96	6	74-129/10
135-98-8	sec-Butylbenzene	20	19.5	98	18.5	93	5	75-128/11
98-06-6	tert-Butylbenzene	20	17.7	89	17.0	85	4	74-127/11
108-90-7	Chlorobenzene	20	18.6	93	18.1	91	3	79-119/10
75-00-3	Chloroethane	20	20.9	105	20.1	101	4	60-115/14
67-66-3	Chloroform	20	20.5	103	19.7	99	4	75-122/10
95-49-8	o-Chlorotoluene	20	19.9	100	18.5	93	7	76-125/12
106-43-4	p-Chlorotoluene	20	19.6	98	18.7	94	5	76-126/11
56-23-5	Carbon tetrachloride	20	19.0	95	17.6	88	8	72-128/13
75-34-3	1,1-Dichloroethane	20	20.4	102	19.6	98	4	70-121/10
75-35-4	1,1-Dichloroethylene	20	18.0	90	16.4	82	9	62-125/13
563-58-6	1,1-Dichloropropene	20	19.0	95	17.4	87	9	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	20	16.5	83	16.4	82	1	64-129/11
106-93-4	1,2-Dibromoethane	20	19.2	96	19.0	95	1	81-124/10
107-06-2	1,2-Dichloroethane	20	20.2	101	19.7	99	3	74-122/10
78-87-5	1,2-Dichloropropane	20	19.9	100	19.2	96	4	75-123/10
142-28-9	1,3-Dichloropropane	20	20.2	101	19.9	100	1	81-127/11
108-20-3	Di-Isopropyl ether	20	20.1	101	19.4	97	4	69-126/10
594-20-7	2,2-Dichloropropane	20	18.3	92	17.0	85	7	66-130/12
124-48-1	Dibromochloromethane	20	16.2	81	16.0	80	1	76-124/10
75-71-8	Dichlorodifluoromethane	20	18.4	92	16.2	81	13	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.4	102	19.6	98	4	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	20.4	102	19.7	99	3	76-131/10
541-73-1	m-Dichlorobenzene	20	18.8	94	18.4	92	2	79-121/10
95-50-1	o-Dichlorobenzene	20	18.6	93	18.2	91	2	79-120/10
106-46-7	p-Dichlorobenzene	20	18.7	94	18.3	92	2	79-120/10
156-60-5	trans-1,2-Dichloroethylene	20	17.6	88	16.7	84	5	67-116/11
10061-02-6	trans-1,3-Dichloropropene	20	19.8	99	19.5	98	2	73-125/10
100-41-4	Ethylbenzene	20	19.3	97	18.5	93	4	78-123/10
637-92-3	Ethyl Tert Butyl Ether	20	19.8	99	19.3	97	3	75-126/11

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-BS	R41018.D	1	07/12/16	CV	n/a	n/a	VR1581
VR1581-BSD	R41019.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	88.8	111	89.9	112	1	71-145/12
87-68-3	Hexachlorobutadiene	20	16.9	85	16.1	81	5	70-130/12
98-82-8	Isopropylbenzene	20	18.7	94	17.8	89	5	77-125/10
99-87-6	p-Isopropyltoluene	20	19.2	96	18.3	92	5	76-126/10
108-10-1	4-Methyl-2-pentanone	80	84.5	106	84.4	106	0	70-142/11
74-83-9	Methyl bromide	20	20.3	102	19.4	97	5	65-124/13
74-87-3	Methyl chloride	20	19.1	96	17.4	87	9	47-143/20
74-95-3	Methylene bromide	20	20.1	101	19.7	99	2	80-125/10
75-09-2	Methylene chloride	20	19.7	99	19.0	95	4	65-124/15
78-93-3	Methyl ethyl ketone	80	85.1	106	85.8	107	1	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	18.1	91	2	73-120/10
91-20-3	Naphthalene	20	18.2	91	18.2	91	0	66-120/12
103-65-1	n-Propylbenzene	20	19.5	98	18.5	93	5	75-125/10
100-42-5	Styrene	20	19.1	96	18.6	93	3	73-126/10
994-05-8	Tert-Amyl Methyl Ether	20	19.8	99	19.4	97	2	77-126/10
75-65-0	Tert-Butyl Alcohol	100	92.7	93	98.3	98	6	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	20	18.9	95	18.5	93	2	79-126/10
71-55-6	1,1,1-Trichloroethane	20	20.0	100	18.7	94	7	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	20.8	104	20.8	104	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	20.0	100	19.8	99	1	79-122/10
87-61-6	1,2,3-Trichlorobenzene	20	17.2	86	17.1	86	1	70-128/12
96-18-4	1,2,3-Trichloropropane	20	18.6	93	18.7	94	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	20	17.5	88	17.2	86	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	19.2	96	18.6	93	3	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	19.3	97	18.5	93	4	79-130/10
127-18-4	Tetrachloroethylene	20	17.9	90	17.2	86	4	72-124/13
108-88-3	Toluene	20	18.9	95	18.3	92	3	78-121/10
79-01-6	Trichloroethylene	20	19.4	97	18.3	92	6	75-119/10
75-69-4	Trichlorofluoromethane	20	21.2	106	19.8	99	7	68-130/19
75-01-4	Vinyl chloride	20	22.6	113	21.3	107	6	57-137/18
1330-20-7	Xylene (total)	60	56.2	94	54.0	90	4	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	107%	80-123%

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-BS	R41018.D	1	07/12/16	CV	n/a	n/a	VR1581
VR1581-BSD	R41019.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	101%	101%	88-112%
460-00-4	4-Bromofluorobenzene	99%	99%	79-114%

* = Outside of Control Limits.

5.2.2
 5

Laboratory Control Sample Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-LCS	R40958.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	80-123%
2037-26-5	Toluene-D8	104%	88-112%
460-00-4	4-Bromofluorobenzene	96%	79-114%

* = Outside of Control Limits.

5.3.1
 5

Laboratory Control Sample Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-LCS	R41020.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	140	112	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	80-123%
2037-26-5	Toluene-D8	103%	88-112%
460-00-4	4-Bromofluorobenzene	95%	79-114%

* = Outside of Control Limits.

5.3.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-8MS	R40974.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8MSD	R40975.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8 ^a	R40968.D	200	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Compound	C46413-8 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		16000	15900	99	16000	15600	98	2	55-147/17
71-43-2	Benzene	511		4000	4560	101	4000	4410	97	3	76-120/10
108-86-1	Bromobenzene	ND		4000	4090	102	4000	4040	101	1	80-123/10
74-97-5	Bromochloromethane	ND		4000	4150	104	4000	4020	101	3	79-124/10
75-27-4	Bromodichloromethane	ND		4000	3900	98	4000	3900	98	0	75-121/10
75-25-2	Bromoform	ND		4000	2770	69	4000	3030	76	9	62-127/10
104-51-8	n-Butylbenzene	ND		4000	4010	100	4000	3970	99	1	74-129/10
135-98-8	sec-Butylbenzene	ND		4000	4020	101	4000	3980	100	1	75-128/11
98-06-6	tert-Butylbenzene	ND		4000	3810	95	4000	3760	94	1	74-127/11
108-90-7	Chlorobenzene	ND		4000	3970	99	4000	3900	98	2	79-119/10
75-00-3	Chloroethane	ND		4000	4110	103	4000	4180	105	2	60-115/14
67-66-3	Chloroform	ND		4000	4080	102	4000	3960	99	3	75-122/10
95-49-8	o-Chlorotoluene	ND		4000	4130	103	4000	4140	104	0	76-125/12
106-43-4	p-Chlorotoluene	ND		4000	3980	100	4000	3950	99	1	76-126/11
56-23-5	Carbon tetrachloride	ND		4000	3970	99	4000	3930	98	1	72-128/13
75-34-3	1,1-Dichloroethane	ND		4000	4060	102	4000	3940	99	3	70-121/10
75-35-4	1,1-Dichloroethylene	ND		4000	3790	95	4000	3570	89	6	62-125/13
563-58-6	1,1-Dichloropropene	ND		4000	3910	98	4000	3780	95	3	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		4000	3310	83	4000	3370	84	2	64-129/11
106-93-4	1,2-Dibromoethane	ND		4000	4070	102	4000	3990	100	2	81-124/10
107-06-2	1,2-Dichloroethane	ND		4000	3970	99	4000	3910	98	2	74-122/10
78-87-5	1,2-Dichloropropane	ND		4000	4060	102	4000	3950	99	3	75-123/10
142-28-9	1,3-Dichloropropane	ND		4000	4150	104	4000	4110	103	1	81-127/11
108-20-3	Di-Isopropyl ether	ND		4000	3900	98	4000	3780	95	3	69-126/10
594-20-7	2,2-Dichloropropane	ND		4000	3600	90	4000	3470	87	4	66-130/12
124-48-1	Dibromochloromethane	ND		4000	3170	79	4000	3320	83	5	76-124/10
75-71-8	Dichlorodifluoromethane	ND		4000	2890	72	4000	3290	82	13	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		4000	4180	105	4000	4030	101	4	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		4000	4090	102	4000	4040	101	1	76-131/10
541-73-1	m-Dichlorobenzene	ND		4000	4050	101	4000	3980	100	2	79-121/10
95-50-1	o-Dichlorobenzene	ND		4000	4030	101	4000	3940	99	2	79-120/10
106-46-7	p-Dichlorobenzene	ND		4000	4010	100	4000	3960	99	1	79-120/10
156-60-5	trans-1,2-Dichloroethylene	ND		4000	3680	92	4000	3530	88	4	67-116/11
10061-02-6	trans-1,3-Dichloropropene	ND		4000	3950	99	4000	3970	99	1	73-125/10
100-41-4	Ethylbenzene	141	J	4000	4280	103	4000	4160	100	3	78-123/10
637-92-3	Ethyl Tert Butyl Ether	ND		4000	3980	100	4000	3870	97	3	75-126/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-8MS	R40974.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8MSD	R40975.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8 ^a	R40968.D	200	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Compound	C46413-8 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	ND	16000	17500	109	16000	17700	111	1	71-145/12	
87-68-3	Hexachlorobutadiene	ND	4000	3490	87	4000	3420	86	2	70-130/12	
98-82-8	Isopropylbenzene	ND	4000	3960	99	4000	3890	97	2	77-125/10	
99-87-6	p-Isopropyltoluene	ND	4000	4020	101	4000	3980	100	1	76-126/10	
108-10-1	4-Methyl-2-pentanone	ND	16000	16700	104	16000	16600	104	1	70-142/11	
74-83-9	Methyl bromide	ND	4000	4100	103	4000	4090	102	0	65-124/13	
74-87-3	Methyl chloride	ND	4000	3120	78	4000	3780	95	19	47-143/20	
74-95-3	Methylene bromide	ND	4000	4140	104	4000	4030	101	3	80-125/10	
75-09-2	Methylene chloride	ND	4000	4020	101	4000	3850	96	4	65-124/15	
78-93-3	Methyl ethyl ketone	ND	16000	17000	106	16000	16900	106	1	66-145/12	
1634-04-4	Methyl Tert Butyl Ether	14600	4000	17700	78	4000	17500	73	1	73-120/10	
91-20-3	Naphthalene	ND	4000	4020	101	4000	3880	97	4	66-120/12	
103-65-1	n-Propylbenzene	ND	4000	4060	102	4000	4000	100	1	75-125/10	
100-42-5	Styrene	ND	4000	4000	100	4000	3950	99	1	73-126/10	
994-05-8	Tert-Amyl Methyl Ether	ND	4000	4100	103	4000	3990	100	3	77-126/10	
75-65-0	Tert-Butyl Alcohol	20000	20000	41300	107	20000	41300	107	0	52-148/18	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4000	4070	102	4000	4010	100	1	79-126/10	
71-55-6	1,1,1-Trichloroethane	ND	4000	4100	103	4000	4010	100	2	73-125/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4000	4240	106	4000	4230	106	0	78-127/10	
79-00-5	1,1,2-Trichloroethane	ND	4000	4140	104	4000	4060	102	2	79-122/10	
87-61-6	1,2,3-Trichlorobenzene	ND	4000	3630	91	4000	3600	90	1	70-128/12	
96-18-4	1,2,3-Trichloropropane	ND	4000	3910	98	4000	3910	98	0	66-127/10	
120-82-1	1,2,4-Trichlorobenzene	ND	4000	3670	92	4000	3620	91	1	72-125/11	
95-63-6	1,2,4-Trimethylbenzene	98.1	J	4000	4220	103	4000	4100	100	3	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND	4000	4140	104	4000	4080	102	1	79-130/10	
127-18-4	Tetrachloroethylene	ND	4000	3880	97	4000	3740	94	4	72-124/13	
108-88-3	Toluene	ND	4000	4130	103	4000	3970	99	4	78-121/10	
79-01-6	Trichloroethylene	ND	4000	4060	102	4000	3940	99	3	75-119/10	
75-69-4	Trichlorofluoromethane	ND	4000	3870	97	4000	4310	108	11	68-130/19	
75-01-4	Vinyl chloride	ND	4000	4060	102	4000	4420	111	8	57-137/18	
1330-20-7	Xylene (total)	316	J	12000	12700	103	12000	12200	99	4	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46413-8	Limits
1868-53-7	Dibromofluoromethane	103%	102%	108%	80-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-8MS	R40974.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8MSD	R40975.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8 ^a	R40968.D	200	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1

CAS No.	Surrogate Recoveries	MS	MSD	C46413-8	Limits
2037-26-5	Toluene-D8	100%	100%	104%	88-112%
460-00-4	4-Bromofluorobenzene	99%	98%	95%	79-114%

(a) Sample vial contained more than 0.5cm of sediment.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46447-1MS	R41041.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1MSD	R41042.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1 ^a	R41028.D	10	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Compound	C46447-1		Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q								
67-64-1	Acetone	71.2	J	800	977	113	800	884	102	10	55-147/17
71-43-2	Benzene	555		200	709	77	200	672	59* ^b	5	76-120/10
108-86-1	Bromobenzene	ND		200	195	98	200	193	97	1	80-123/10
74-97-5	Bromochloromethane	ND		200	209	105	200	196	98	6	79-124/10
75-27-4	Bromodichloromethane	ND		200	199	100	200	193	97	3	75-121/10
75-25-2	Bromoform	ND		200	128	64	200	121	61* ^c	6	62-127/10
104-51-8	n-Butylbenzene	ND		200	206	103	200	205	103	0	74-129/10
135-98-8	sec-Butylbenzene	ND		200	201	101	200	201	101	0	75-128/11
98-06-6	tert-Butylbenzene	ND		200	185	93	200	186	93	1	74-127/11
108-90-7	Chlorobenzene	ND		200	190	95	200	191	96	1	79-119/10
75-00-3	Chloroethane	ND		200	225	113	200	216	108	4	60-115/14
67-66-3	Chloroform	ND		200	225	113	200	212	106	6	75-122/10
95-49-8	o-Chlorotoluene	ND		200	196	98	200	202	101	3	76-125/12
106-43-4	p-Chlorotoluene	ND		200	203	102	200	210	105	3	76-126/11
56-23-5	Carbon tetrachloride	ND		200	189	95	200	195	98	3	72-128/13
75-34-3	1,1-Dichloroethane	ND		200	229	115	200	216	108	6	70-121/10
75-35-4	1,1-Dichloroethylene	ND		200	195	98	200	189	95	3	62-125/13
563-58-6	1,1-Dichloropropene	ND		200	198	99	200	200	100	1	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		200	171	86	200	160	80	7	64-129/11
106-93-4	1,2-Dibromoethane	ND		200	197	99	200	193	97	2	81-124/10
107-06-2	1,2-Dichloroethane	7.9	J	200	219	106	200	211	102	4	74-122/10
78-87-5	1,2-Dichloropropane	ND		200	213	107	200	207	104	3	75-123/10
142-28-9	1,3-Dichloropropane	ND		200	210	105	200	207	104	1	81-127/11
108-20-3	Di-Isopropyl ether	ND		200	228	114	200	213	107	7	69-126/10
594-20-7	2,2-Dichloropropane	ND		200	177	89	200	168	84	5	66-130/12
124-48-1	Dibromochloromethane	ND		200	150	75* ^c	200	146	73* ^c	3	76-124/10
75-71-8	Dichlorodifluoromethane	ND		200	187	94	200	187	94	0	26-163/26
156-59-2	cis-1,2-Dichloroethylene	3.9	J	200	224	110	200	212	104	6	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		200	203	102	200	197	99	3	76-131/10
541-73-1	m-Dichlorobenzene	ND		200	193	97	200	191	96	1	79-121/10
95-50-1	o-Dichlorobenzene	ND		200	191	96	200	189	95	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		200	193	97	200	191	96	1	79-120/10
156-60-5	trans-1,2-Dichloroethylene	ND		200	190	95	200	183	92	4	67-116/11
10061-02-6	trans-1,3-Dichloropropene	ND		200	194	97	200	192	96	1	73-125/10
100-41-4	Ethylbenzene	58.6		200	256	99	200	255	98	0	78-123/10
637-92-3	Ethyl Tert Butyl Ether	ND		200	217	109	200	204	102	6	75-126/11

* = Outside of Control Limits.

5.4.2
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46447-1MS	R41041.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1MSD	R41042.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1 ^a	R41028.D	10	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Compound	C46447-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND	800	967	121	800	923	115	5	71-145/12
87-68-3	Hexachlorobutadiene	ND	200	155	78	200	159	80	3	70-130/12
98-82-8	Isopropylbenzene	4.0	J 200	194	95	200	195	96	1	77-125/10
99-87-6	p-Isopropyltoluene	ND	200	195	98	200	195	98	0	76-126/10
108-10-1	4-Methyl-2-pentanone	ND	800	910	114	800	852	107	7	70-142/11
74-83-9	Methyl bromide	ND	200	215	108	200	204	102	5	65-124/13
74-87-3	Methyl chloride	ND	200	206	103	200	183	92	12	47-143/20
74-95-3	Methylene bromide	ND	200	210	105	200	202	101	4	80-125/10
75-09-2	Methylene chloride	ND	200	218	109	200	205	103	6	65-124/15
78-93-3	Methyl ethyl ketone	ND	800	948	119	800	852	107	11	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND	200	198	99	200	187	94	6	73-120/10
91-20-3	Naphthalene	ND	200	189	95	200	182	91	4	66-120/12
103-65-1	n-Propylbenzene	4.1	J 200	208	102	200	208	102	0	75-125/10
100-42-5	Styrene	ND	200	195	98	200	193	97	1	73-126/10
994-05-8	Tert-Amyl Methyl Ether	ND	200	213	107	200	201	101	6	77-126/10
75-65-0	Tert-Butyl Alcohol	ND	1000	1030	103	1000	961	96	7	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	ND	200	191	96	200	191	96	0	79-126/10
71-55-6	1,1,1-Trichloroethane	ND	200	214	107	200	208	104	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	225	113	200	217	109	4	78-127/10
79-00-5	1,1,2-Trichloroethane	ND	200	212	106	200	207	104	2	79-122/10
87-61-6	1,2,3-Trichlorobenzene	ND	200	165	83	200	161	81	2	70-128/12
96-18-4	1,2,3-Trichloropropane	ND	200	190	95	200	186	93	2	66-127/10
120-82-1	1,2,4-Trichlorobenzene	ND	200	167	84	200	164	82	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	15.2	J 200	215	100	200	212	98	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	4.6	J 200	216	106	200	214	105	1	79-130/10
127-18-4	Tetrachloroethylene	ND	200	174	87	200	179	90	3	72-124/13
108-88-3	Toluene	83.9	200	272	94	200	272	94	0	78-121/10
79-01-6	Trichloroethylene	84.3	200	278	97	200	277	96	0	75-119/10
75-69-4	Trichlorofluoromethane	ND	200	211	106	200	210	105	0	68-130/19
75-01-4	Vinyl chloride	ND	200	232	116	200	226	113	3	57-137/18
1330-20-7	Xylene (total)	125	600	698	96	600	699	96	0	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46447-1	Limits
1868-53-7	Dibromofluoromethane	115%	108%	116%	80-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46436
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46447-1MS	R41041.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1MSD	R41042.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1 ^a	R41028.D	10	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46436-1, C46436-2

CAS No.	Surrogate Recoveries	MS	MSD	C46447-1	Limits
2037-26-5	Toluene-D8	102%	102%	102%	88-112%
460-00-4	4-Bromofluorobenzene	100%	99%	96%	79-114%

- (a) Sample vial contained more than 0.5cm of sediment.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside laboratory control limits.

* = Outside of Control Limits.

5.4.2
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Technical Report for

ATC Group Services

Premier Hyundai 2820 Broadway Oakland

SGS Accutest Job Number: C46446

Sampling Date: 07/08/16

Report to:

ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA
gabe.stivala@atcassociates.com

ATTN: Gabe Stivala

Total number of pages in report: **76**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services

Job No: C46446

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46446-1	07/08/16	09:40	07/08/16	SO	Soil	B30-2'
C46446-2	07/08/16	09:45	07/08/16	SO	Soil	B30-4'
C46446-3	07/08/16	09:50	07/08/16	SO	Soil	B30-5'
C46446-4	07/08/16	10:00	07/08/16	SO	Soil	B30-10'
C46446-5	07/08/16	10:05	07/08/16	SO	Soil	B30-15'
C46446-8	07/08/16	11:35	07/08/16	SO	Soil	B31-2'
C46446-9	07/08/16	11:40	07/08/16	SO	Soil	B31-4'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C46446
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/08/16

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Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
C46446-1	B30-2'					
		TPH (C10-C28)	89.8	66	29	mg/kg SW846 8015B M
		TPH (> C28-C40)	221	66	26	mg/kg SW846 8015B M
		Lead	87.1	1.9		mg/kg SW846 6010B
C46446-2	B30-4'					
		TPH (C10-C28)	4.16	3.3	1.5	mg/kg SW846 8015B M
		TPH (> C28-C40)	9.40	3.3	1.3	mg/kg SW846 8015B M
		Lead	12.4	1.9		mg/kg SW846 6010B
C46446-3	B30-5'					
		TPH (C10-C28)	23.9	13	5.8	mg/kg SW846 8015B M
		TPH (> C28-C40)	67.5	13	5.2	mg/kg SW846 8015B M
		Lead	26.9	1.8		mg/kg SW846 6010B
C46446-4	B30-10'					
		TPH (C10-C28)	3.89	3.3	1.5	mg/kg SW846 8015B M
		TPH (> C28-C40)	3.98	3.3	1.3	mg/kg SW846 8015B M
		Lead	6.5	1.9		mg/kg SW846 6010B
C46446-5	B30-15'					
		n-Butylbenzene	152 J	210	21	ug/kg SW846 8260B
		sec-Butylbenzene	642	210	21	ug/kg SW846 8260B
		tert-Butylbenzene	36.6 J	210	21	ug/kg SW846 8260B
		Isopropylbenzene	264	210	21	ug/kg SW846 8260B
		Naphthalene	244	210	42	ug/kg SW846 8260B
		n-Propylbenzene	175 J	210	21	ug/kg SW846 8260B
		TPH (C10-C28)	363	33	14	mg/kg SW846 8015B M
		TPH (> C28-C40)	149	33	13	mg/kg SW846 8015B M
		Lead	7.6	1.8		mg/kg SW846 6010B
C46446-8	B31-2'					
		TPH (C10-C28)	80.8	66	29	mg/kg SW846 8015B M
		TPH (> C28-C40)	231	66	26	mg/kg SW846 8015B M
		Lead	580	1.9		mg/kg SW846 6010B
C46446-9	B31-4'					
		TPH (> C28-C40)	3.67	3.3	1.3	mg/kg SW846 8015B M

Summary of Hits

Job Number: C46446
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/08/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		4.3	1.9		mg/kg	SW846 6010B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: B30-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-1		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61839.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight
Run #1	5.04 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	9.9	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.99	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.99	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-2'	
Lab Sample ID: C46446-1	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.99	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	0.99	ug/kg	
74-87-3	Methyl chloride	ND	5.0	0.99	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.99	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	9.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.99	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.99	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.99	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.99	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.99	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-2'	
Lab Sample ID: C46446-1	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: B30-2'	Date Sampled: 07/08/16
Lab Sample ID: C46446-1	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5273.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	89.8	66	29	mg/kg	
	TPH (> C28-C40)	221	66	26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	73%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-2'	
Lab Sample ID: C46446-1	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	87.1	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

32
3

Client Sample ID: B30-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-2		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M61840.D	1	07/13/16	JT	n/a	n/a	VM1859

Run #1	Initial Weight
Run #2	5.17 g

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	39	9.7	ug/kg	
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-86-1	Bromobenzene	ND	4.8	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.48	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.48	ug/kg	
75-25-2	Bromoform	ND	4.8	0.48	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.48	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.48	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.48	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.97	ug/kg	
67-66-3	Chloroform	ND	4.8	0.48	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.48	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.48	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.48	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.48	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.48	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.48	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	0.48	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	0.97	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	0.48	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	0.48	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: B30-4' Lab Sample ID: C46446-2 Matrix: SO - Soil Method: SW846 8260B Project: Premier Hyundai 2820 Broadway Oakland	Date Sampled: 07/08/16 Date Received: 07/08/16 Percent Solids: n/a ^a
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VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: B30-4'	Date Sampled: 07/08/16
Lab Sample ID: C46446-2	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5298.D	1	07/12/16	FL	07/11/16	OP14620	GBB173
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.16	3.3	1.5	mg/kg	
	TPH (> C28-C40)	9.40	3.3	1.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-4'	
Lab Sample ID: C46446-2	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	12.4	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID: B30-5'		Date Sampled: 07/08/16
Lab Sample ID: C46446-3		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M61838.D	1	07/13/16	JT	n/a	n/a	VM1859

Run #1	Initial Weight
Run #2	5.06 g

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	9.9	ug/kg	
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-86-1	Bromobenzene	ND	4.9	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	0.49	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	0.49	ug/kg	
75-25-2	Bromoform	ND	4.9	0.49	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	0.49	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	0.49	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.49	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.99	ug/kg	
67-66-3	Chloroform	ND	4.9	0.49	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	0.49	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	0.49	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	0.49	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	0.49	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	0.49	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	0.49	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	0.49	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	0.49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	0.49	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	0.49	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	0.49	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	0.49	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	0.99	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.49	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	0.49	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	0.49	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	0.49	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B30-5'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-3	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	0.49	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	0.49	ug/kg	
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	0.99	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	0.49	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	4.9	0.99	ug/kg	
74-87-3	Methyl chloride	ND	4.9	0.99	ug/kg	
74-95-3	Methylene bromide	ND	4.9	0.49	ug/kg	
75-09-2	Methylene chloride	ND	20	4.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.99	ug/kg	
91-20-3	Naphthalene	ND	4.9	0.99	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	0.49	ug/kg	
100-42-5	Styrene	ND	4.9	0.49	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	0.49	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	9.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	0.49	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	0.49	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	0.49	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	0.49	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.49	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	0.99	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	0.99	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	0.99	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	0.59	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	0.49	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	0.99	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	0.99	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-140%
2037-26-5	Toluene-D8	94%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-5'		Date Sampled: 07/08/16
Lab Sample ID: C46446-3		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-5'	Date Sampled: 07/08/16
Lab Sample ID: C46446-3	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5300.D	4	07/12/16	FL	07/11/16	OP14620	GBB173
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	23.9	13	5.8	mg/kg	
	TPH (> C28-C40)	67.5	13	5.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	71%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-5'		Date Sampled: 07/08/16
Lab Sample ID: C46446-3		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	26.9	1.8	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID: B30-10'		Date Sampled: 07/08/16
Lab Sample ID: C46446-4		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.59 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1800	450	ug/kg	
71-43-2	Benzene	ND	220	22	ug/kg	
108-86-1	Bromobenzene	ND	220	22	ug/kg	
74-97-5	Bromochloromethane	ND	220	22	ug/kg	
75-27-4	Bromodichloromethane	ND	220	22	ug/kg	
75-25-2	Bromoform	ND	220	22	ug/kg	
104-51-8	n-Butylbenzene	ND	220	22	ug/kg	
135-98-8	sec-Butylbenzene	ND	220	22	ug/kg	
98-06-6	tert-Butylbenzene	ND	220	22	ug/kg	
108-90-7	Chlorobenzene	ND	220	22	ug/kg	
75-00-3	Chloroethane	ND	220	45	ug/kg	
67-66-3	Chloroform	ND	220	22	ug/kg	
95-49-8	o-Chlorotoluene	ND	220	22	ug/kg	
106-43-4	p-Chlorotoluene	ND	220	22	ug/kg	
56-23-5	Carbon tetrachloride	ND	220	22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	220	22	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	220	22	ug/kg	
563-58-6	1,1-Dichloropropene	ND	220	22	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	220	63	ug/kg	
106-93-4	1,2-Dibromoethane	ND	220	22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	220	22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	220	22	ug/kg	
142-28-9	1,3-Dichloropropane	ND	220	22	ug/kg	
108-20-3	Di-Isopropyl ether	ND	220	22	ug/kg	
594-20-7	2,2-Dichloropropane	ND	220	22	ug/kg	
124-48-1	Dibromochloromethane	ND	220	22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	220	45	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	220	49	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	220	22	ug/kg	
541-73-1	m-Dichlorobenzene	ND	220	22	ug/kg	
95-50-1	o-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	p-Dichlorobenzene	ND	220	22	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B30-10'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-4	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	220	22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	220	22	ug/kg	
100-41-4	Ethylbenzene	ND	220	22	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	220	22	ug/kg	
591-78-6	2-Hexanone	ND	890	89	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	45	ug/kg	
98-82-8	Isopropylbenzene	ND	220	22	ug/kg	
99-87-6	p-Isopropyltoluene	ND	220	22	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	890	89	ug/kg	
74-83-9	Methyl bromide	ND	220	45	ug/kg	
74-87-3	Methyl chloride	ND	220	45	ug/kg	
74-95-3	Methylene bromide	ND	220	22	ug/kg	
75-09-2	Methylene chloride	ND	890	220	ug/kg	
78-93-3	Methyl ethyl ketone	ND	890	89	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	220	45	ug/kg	
91-20-3	Naphthalene	ND	220	45	ug/kg	
103-65-1	n-Propylbenzene	ND	220	22	ug/kg	
100-42-5	Styrene	ND	220	22	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	220	22	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1800	450	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	220	22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	220	22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	220	22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	220	22	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	220	22	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	220	45	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	220	45	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	220	45	ug/kg	
127-18-4	Tetrachloroethylene	ND	220	27	ug/kg	
108-88-3	Toluene	ND	220	22	ug/kg	
79-01-6	Trichloroethylene	ND	220	22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	220	45	ug/kg	
75-01-4	Vinyl chloride	ND	220	45	ug/kg	
1330-20-7	Xylene (total)	ND	450	45	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		72-140%
2037-26-5	Toluene-D8	97%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-10'		Date Sampled: 07/08/16
Lab Sample ID: C46446-4		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: B30-10'	Date Sampled: 07/08/16
Lab Sample ID: C46446-4	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5266.D	1	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	3.89	3.3	1.5	mg/kg	
	TPH (> C28-C40)	3.98	3.3	1.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	68%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-10'	Date Sampled: 07/08/16
Lab Sample ID: C46446-4	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.5	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID: B30-15'		Date Sampled: 07/08/16
Lab Sample ID: C46446-5		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61849.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.92 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1700	420	ug/kg	
71-43-2	Benzene	ND	210	21	ug/kg	
108-86-1	Bromobenzene	ND	210	21	ug/kg	
74-97-5	Bromochloromethane	ND	210	21	ug/kg	
75-27-4	Bromodichloromethane	ND	210	21	ug/kg	
75-25-2	Bromoform	ND	210	21	ug/kg	
104-51-8	n-Butylbenzene	152	210	21	ug/kg	J
135-98-8	sec-Butylbenzene	642	210	21	ug/kg	
98-06-6	tert-Butylbenzene	36.6	210	21	ug/kg	J
108-90-7	Chlorobenzene	ND	210	21	ug/kg	
75-00-3	Chloroethane	ND	210	42	ug/kg	
67-66-3	Chloroform	ND	210	21	ug/kg	
95-49-8	o-Chlorotoluene	ND	210	21	ug/kg	
106-43-4	p-Chlorotoluene	ND	210	21	ug/kg	
56-23-5	Carbon tetrachloride	ND	210	21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	210	21	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	210	21	ug/kg	
563-58-6	1,1-Dichloropropene	ND	210	21	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	210	59	ug/kg	
106-93-4	1,2-Dibromoethane	ND	210	21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	210	21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	210	21	ug/kg	
142-28-9	1,3-Dichloropropane	ND	210	21	ug/kg	
108-20-3	Di-Isopropyl ether	ND	210	21	ug/kg	
594-20-7	2,2-Dichloropropane	ND	210	21	ug/kg	
124-48-1	Dibromochloromethane	ND	210	21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	210	42	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	210	46	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	210	21	ug/kg	
541-73-1	m-Dichlorobenzene	ND	210	21	ug/kg	
95-50-1	o-Dichlorobenzene	ND	210	21	ug/kg	
106-46-7	p-Dichlorobenzene	ND	210	21	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B30-15'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-5	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	210	21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	210	21	ug/kg	
100-41-4	Ethylbenzene	ND	210	21	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	210	21	ug/kg	
591-78-6	2-Hexanone	ND	840	84	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	42	ug/kg	
98-82-8	Isopropylbenzene	264	210	21	ug/kg	
99-87-6	p-Isopropyltoluene	ND	210	21	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	840	84	ug/kg	
74-83-9	Methyl bromide	ND	210	42	ug/kg	
74-87-3	Methyl chloride	ND	210	42	ug/kg	
74-95-3	Methylene bromide	ND	210	21	ug/kg	
75-09-2	Methylene chloride	ND	840	210	ug/kg	
78-93-3	Methyl ethyl ketone	ND	840	84	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	210	42	ug/kg	
91-20-3	Naphthalene	244	210	42	ug/kg	
103-65-1	n-Propylbenzene	175	210	21	ug/kg	J
100-42-5	Styrene	ND	210	21	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	210	21	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1700	420	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	210	21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	210	21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	210	21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	210	21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	210	21	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	210	42	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	210	42	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	210	42	ug/kg	
127-18-4	Tetrachloroethylene	ND	210	25	ug/kg	
108-88-3	Toluene	ND	210	21	ug/kg	
79-01-6	Trichloroethylene	ND	210	21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	210	42	ug/kg	
75-01-4	Vinyl chloride	ND	210	42	ug/kg	
1330-20-7	Xylene (total)	ND	420	42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		72-140%
2037-26-5	Toluene-D8	98%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-15'	
Lab Sample ID: C46446-5	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID: B30-15'	Date Sampled: 07/08/16
Lab Sample ID: C46446-5	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5267.D	10	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	363	33	14	mg/kg	
	TPH (> C28-C40)	149	33	13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	66%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-15'	Date Sampled: 07/08/16
Lab Sample ID: C46446-5	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	7.6	1.8	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID: B31-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-8		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61841.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight
Run #1	5.25 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	9.5	ug/kg	
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-86-1	Bromobenzene	ND	4.8	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.48	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.48	ug/kg	
75-25-2	Bromoform	ND	4.8	0.48	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.48	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.48	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.48	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.95	ug/kg	
67-66-3	Chloroform	ND	4.8	0.48	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.48	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.48	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.48	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.48	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.48	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.48	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	0.48	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	0.95	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	0.48	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	0.48	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B31-2'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-8	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	0.48	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.8	0.48	ug/kg	
591-78-6	2-Hexanone	ND	19	1.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	0.48	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	1.9	ug/kg	
74-83-9	Methyl bromide	ND	4.8	0.95	ug/kg	
74-87-3	Methyl chloride	ND	4.8	0.95	ug/kg	
74-95-3	Methylene bromide	ND	4.8	0.48	ug/kg	
75-09-2	Methylene chloride	ND	19	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	1.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	0.95	ug/kg	
91-20-3	Naphthalene	ND	4.8	0.95	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	0.48	ug/kg	
100-42-5	Styrene	ND	4.8	0.48	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	0.48	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	38	9.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.48	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.48	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	0.95	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.95	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.95	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	0.57	ug/kg	
108-88-3	Toluene	ND	4.8	0.48	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	0.48	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.95	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.95	ug/kg	
1330-20-7	Xylene (total)	ND	9.5	0.95	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-2'	
Lab Sample ID: C46446-8	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

Client Sample ID: B31-2'	Date Sampled: 07/08/16
Lab Sample ID: C46446-8	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5275.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	80.8	66	29	mg/kg	
	TPH (> C28-C40)	231	66	26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	68%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-2'	Date Sampled: 07/08/16
Lab Sample ID: C46446-8	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	580	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID: B31-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-9		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61837.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight
Run #1	5.24 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	9.5	ug/kg	
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-86-1	Bromobenzene	ND	4.8	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.48	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.48	ug/kg	
75-25-2	Bromoform	ND	4.8	0.48	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.48	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.48	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.48	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.95	ug/kg	
67-66-3	Chloroform	ND	4.8	0.48	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.48	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.48	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.48	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.48	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	0.48	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.48	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.48	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	0.48	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	0.95	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	0.48	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	0.48	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B31-4'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-9	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	0.48	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.8	0.48	ug/kg	
591-78-6	2-Hexanone	ND	19	1.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	0.48	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	1.9	ug/kg	
74-83-9	Methyl bromide	ND	4.8	0.95	ug/kg	
74-87-3	Methyl chloride	ND	4.8	0.95	ug/kg	
74-95-3	Methylene bromide	ND	4.8	0.48	ug/kg	
75-09-2	Methylene chloride	ND	19	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	1.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	0.95	ug/kg	
91-20-3	Naphthalene	ND	4.8	0.95	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	0.48	ug/kg	
100-42-5	Styrene	ND	4.8	0.48	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	0.48	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	38	9.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.48	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.48	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	0.95	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.95	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.95	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	0.57	ug/kg	
108-88-3	Toluene	ND	4.8	0.48	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	0.48	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.95	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.95	ug/kg	
1330-20-7	Xylene (total)	ND	9.5	0.95	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-4'	
Lab Sample ID: C46446-9	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: B31-4'	Date Sampled: 07/08/16
Lab Sample ID: C46446-9	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5299.D	1	07/12/16	FL	07/11/16	OP14620	GBB173
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	3.3	1.4	mg/kg	
	TPH (> C28-C40)	3.67	3.3	1.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	90%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-9		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	4.3	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Report To					Analysis Request																						
Attn: <u>Gabe Stivala</u>																											
Company: <u>ATC Group Services</u>																											
Address: <u>915 Highland Pkwy, Ste 250, Roseville</u>																											
Email: <u>gabe.stivala@atcassociates.com</u>																											
Bill To: _____					Sampled By: <u>JK</u>																						
Alt: _____					Phone: <u>916-729-5297</u>																						
Sample ID	Date	Time	Mat Rk	Preserv	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B	HVOCs by <input type="checkbox"/> EPA 8260B <input type="checkbox"/> EPA 8210 <input type="checkbox"/> 5 Organics <input type="checkbox"/> DCA <input type="checkbox"/> EPA <input type="checkbox"/> Ethanol	TEPH, EPA 8018B <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Water Oil <input type="checkbox"/> Other	Semi-Volatile Organics GC/MS <input type="checkbox"/> EPA 8210	PAH/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> EPA 8270C SIM	Oil and Grease (EPA 1631-6071) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> EPA 8082	CAM17 Metals (EPA 901074707471)	Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 6007 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> CRRA <input type="checkbox"/> Other: _____	Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS)	WET (STL) <input type="checkbox"/> TOLP <input type="checkbox"/> WET (DI) <input type="checkbox"/>	Hex Chrom by <input type="checkbox"/> EPA 7196 or EPA 7199	pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500	Spec Cond <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Perchlorate by EPA 914.0	COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity	Total Lead	Sample #	Number of Containers			
B30-2'	7-8-16	0940	S-1	Na	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			1	1
B30-4'		0945																								2	2
B30-5'		0950																								3	3
B30-10'		1000																								4	4
B30-15'		1005																								5	5
B30-20'		1016																								6	6
B30-25'		1015																								7	7
B31-2'		1135																								8	8
B31-4'		1140																								9	9

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name/ #:	# of Containers:	Head Space:	Temp:	Signature	Time	Signature	Time	Signature	Time
PO#:				Printed Name	Date	Printed Name	Date	Printed Name	Date
Credit Card Y/N:	If yes, please call with payment information ASAP			Company		Company		Company	
T A T	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:		
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF	Special Instructions / Comments: <input type="checkbox"/> Global ID _____								
See Terms and Conditions on reverse				Signature	Time	Signature	Time	Signature	Time
				Printed Name	Date	Printed Name	Date	Printed Name	Date
				Company		Company		Company	

Temp: 32/4.2

SGS Accutest Sample Receipt Summary

Job Number: C46446

Client: ATC GROUP SERVICES LLC

Project: 915 HIGHLAND POINTE DR. SUITE 250 ROSEVIL

Date / Time Received: 7/8/2016 1:05:00 PM

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (3.2/4.2)

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Therm ID: | IR3; | |
| 3. Cooler media: | Ice (bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

C46446: Chain of Custody

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4.1
4

Job Change Order: C46446

Requested Date: 7/8/2016	Received Date: 7/8/2016
Account Name: ATC Group Services	Due Date: 7/13/2016
Project Description: Premier Hyundai 2820 Broadway Oakland	Deliverable: COMMB
CSR: nutank	TAT (Days): 7

=====
Sample #: C46446-6 & 7 **Change:**
Dept: Per client samples 6 & 7 are ON HOLD.
=====

C46446: Chain of Custody
Page 3 of 3

Above Changes Per: Gabe Stivala **Date/Time:** 7/8/2016 4:04:56 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	96% 72-140%

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	93% 87-113%
460-00-4	4-Bromofluorobenzene	101% 81-115%

5.1.1
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Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 72-140%

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	98% 87-113%
460-00-4	4-Bromofluorobenzene	103% 81-115%

5.1.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	182	114	183	114	1	47-163/30
71-43-2	Benzene	40	38.9	97	34.9	87	11	72-122/18
108-86-1	Bromobenzene	40	37.4	94	33.7	84	10	68-122/19
74-97-5	Bromochloromethane	40	39.9	100	37.1	93	7	71-129/18
75-27-4	Bromodichloromethane	40	37.7	94	34.3	86	9	68-122/18
75-25-2	Bromoform	40	40.3	101	37.3	93	8	69-126/18
104-51-8	n-Butylbenzene	40	34.3	86	32.9	82	4	66-121/20
135-98-8	sec-Butylbenzene	40	35.0	88	33.0	83	6	69-118/20
98-06-6	tert-Butylbenzene	40	36.5	91	34.2	86	7	69-117/20
108-90-7	Chlorobenzene	40	38.5	96	35.0	88	10	68-117/17
75-00-3	Chloroethane	40	40.7	102	36.4	91	11	66-134/18
67-66-3	Chloroform	40	36.7	92	33.6	84	9	68-124/18
95-49-8	o-Chlorotoluene	40	34.2	86	30.6	77	11	65-120/22
106-43-4	p-Chlorotoluene	40	35.2	88	32.7	82	7	64-123/24
56-23-5	Carbon tetrachloride	40	39.4	99	35.9	90	9	68-130/20
75-34-3	1,1-Dichloroethane	40	36.7	92	33.5	84	9	69-122/19
75-35-4	1,1-Dichloroethylene	40	36.8	92	33.5	84	9	69-120/20
563-58-6	1,1-Dichloropropene	40	37.5	94	33.4	84	12	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	39.9	100	32.9	82	19	64-132/25
106-93-4	1,2-Dibromoethane	40	38.0	95	34.2	86	11	70-122/17
107-06-2	1,2-Dichloroethane	40	37.9	95	34.3	86	10	69-125/18
78-87-5	1,2-Dichloropropane	40	38.8	97	34.8	87	11	71-122/18
142-28-9	1,3-Dichloropropane	40	38.4	96	34.0	85	12	74-123/17
108-20-3	Di-Isopropyl ether	40	35.9	90	32.9	82	9	69-122/19
594-20-7	2,2-Dichloropropane	40	36.1	90	33.7	84	7	63-132/24
124-48-1	Dibromochloromethane	40	38.5	96	34.4	86	11	68-121/16
75-71-8	Dichlorodifluoromethane	40	29.3	73	25.9	65	12	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	40.4	101	36.7	92	10	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	42.0	105	37.9	95	10	71-130/18
541-73-1	m-Dichlorobenzene	40	36.6	92	33.8	85	8	67-119/18
95-50-1	o-Dichlorobenzene	40	37.5	94	35.1	88	7	68-119/17
106-46-7	p-Dichlorobenzene	40	36.6	92	33.9	85	8	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	35.0	88	32.3	81	8	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	37.1	93	32.9	82	12	70-118/17
100-41-4	Ethylbenzene	40	37.3	93	34.2	86	9	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	38.2	96	34.7	87	10	69-125/19

* = Outside of Control Limits.

5.2.1
 5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	183	114	151	94	19	53-153/27
87-68-3	Hexachlorobutadiene	40	34.6	87	32.7	82	6	65-125/22
98-82-8	Isopropylbenzene	40	37.4	94	35.8	90	4	70-119/19
99-87-6	p-Isopropyltoluene	40	36.1	90	34.0	85	6	68-120/20
108-10-1	4-Methyl-2-pentanone	160	161	101	138	86	15	60-145/26
74-83-9	Methyl bromide	40	39.5	99	35.0	88	12	66-130/18
74-87-3	Methyl chloride	40	29.4	74	25.6	64	14	50-140/25
74-95-3	Methylene bromide	40	39.8	100	35.9	90	10	72-127/17
75-09-2	Methylene chloride	40	38.2	96	34.8	87	9	69-121/18
78-93-3	Methyl ethyl ketone	160	163	102	160	100	2	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	37.8	95	35.3	88	7	68-121/19
91-20-3	Naphthalene	40	38.4	96	34.5	86	11	68-129/22
103-65-1	n-Propylbenzene	40	34.4	86	31.7	79	8	67-116/20
100-42-5	Styrene	40	38.8	97	36.0	90	7	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	40.3	101	37.6	94	7	70-129/20
75-65-0	Tert Butyl Alcohol	200	194	97	213	107	9	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	39.0	98	36.0	90	8	70-123/18
71-55-6	1,1,1-Trichloroethane	40	38.3	96	35.1	88	9	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	37.6	94	33.2	83	12	69-126/18
79-00-5	1,1,2-Trichloroethane	40	37.3	93	32.9	82	13	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	35.0	88	33.1	83	6	65-125/23
96-18-4	1,2,3-Trichloropropane	40	40.4	101	37.1	93	9	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	36.4	91	34.6	87	5	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	35.2	88	32.9	82	7	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	35.9	90	33.1	83	8	68-120/20
127-18-4	Tetrachloroethylene	40	39.3	98	35.9	90	9	66-125/18
108-88-3	Toluene	40	37.1	93	33.5	84	10	72-116/18
79-01-6	Trichloroethylene	40	41.4	104	37.8	95	9	70-126/18
75-69-4	Trichlorofluoromethane	40	41.0	103	36.2	91	12	70-138/19
75-01-4	Vinyl chloride	40	33.8	85	29.8	75	13	55-146/22
1330-20-7	Xylene (total)	120	113	94	105	88	7	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	93%	96%	72-140%

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	93%	92%	87-113%
460-00-4	4-Bromofluorobenzene	96%	102%	81-115%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	184	115	196	123	6	47-163/30
71-43-2	Benzene	40	39.9	100	39.3	98	2	72-122/18
108-86-1	Bromobenzene	40	39.6	99	38.9	97	2	68-122/19
74-97-5	Bromochloromethane	40	41.5	104	40.6	102	2	71-129/18
75-27-4	Bromodichloromethane	40	39.2	98	38.2	96	3	68-122/18
75-25-2	Bromoform	40	39.9	100	39.3	98	2	69-126/18
104-51-8	n-Butylbenzene	40	39.4	99	38.0	95	4	66-121/20
135-98-8	sec-Butylbenzene	40	39.4	99	38.2	96	3	69-118/20
98-06-6	tert-Butylbenzene	40	40.3	101	38.9	97	4	69-117/20
108-90-7	Chlorobenzene	40	38.4	96	38.4	96	0	68-117/17
75-00-3	Chloroethane	40	44.0	110	41.9	105	5	66-134/18
67-66-3	Chloroform	40	40.3	101	39.2	98	3	68-124/18
95-49-8	o-Chlorotoluene	40	40.5	101	39.8	100	2	65-120/22
106-43-4	p-Chlorotoluene	40	37.5	94	35.9	90	4	64-123/24
56-23-5	Carbon tetrachloride	40	40.4	101	39.0	98	4	68-130/20
75-34-3	1,1-Dichloroethane	40	40.8	102	39.4	99	3	69-122/19
75-35-4	1,1-Dichloroethylene	40	39.1	98	38.0	95	3	69-120/20
563-58-6	1,1-Dichloropropene	40	39.0	98	37.7	94	3	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	40.6	102	39.0	98	4	64-132/25
106-93-4	1,2-Dibromoethane	40	38.8	97	39.0	98	1	70-122/17
107-06-2	1,2-Dichloroethane	40	39.9	100	38.8	97	3	69-125/18
78-87-5	1,2-Dichloropropane	40	40.4	101	39.4	99	3	71-122/18
142-28-9	1,3-Dichloropropane	40	40.1	100	40.0	100	0	74-123/17
108-20-3	Di-Isopropyl ether	40	40.2	101	39.4	99	2	69-122/19
594-20-7	2,2-Dichloropropane	40	41.9	105	38.8	97	8	63-132/24
124-48-1	Dibromochloromethane	40	38.9	97	38.6	97	1	68-121/16
75-71-8	Dichlorodifluoromethane	40	31.0	78	28.6	72	8	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	42.8	107	42.3	106	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	42.1	105	41.6	104	1	71-130/18
541-73-1	m-Dichlorobenzene	40	39.2	98	38.5	96	2	67-119/18
95-50-1	o-Dichlorobenzene	40	39.4	99	38.8	97	2	68-119/17
106-46-7	p-Dichlorobenzene	40	39.6	99	38.6	97	3	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	37.9	95	36.9	92	3	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	38.2	96	37.9	95	1	70-118/17
100-41-4	Ethylbenzene	40	39.6	99	39.0	98	2	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	41.3	103	39.9	100	3	69-125/19

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	193	121	180	113	7	53-153/27
87-68-3	Hexachlorobutadiene	40	38.6	97	36.0	90	7	65-125/22
98-82-8	Isopropylbenzene	40	39.6	99	38.1	95	4	70-119/19
99-87-6	p-Isopropyltoluene	40	40.2	101	38.6	97	4	68-120/20
108-10-1	4-Methyl-2-pentanone	160	160	100	156	98	3	60-145/26
74-83-9	Methyl bromide	40	42.0	105	40.3	101	4	66-130/18
74-87-3	Methyl chloride	40	36.9	92	33.8	85	9	50-140/25
74-95-3	Methylene bromide	40	39.6	99	39.5	99	0	72-127/17
75-09-2	Methylene chloride	40	39.0	98	38.0	95	3	69-121/18
78-93-3	Methyl ethyl ketone	160	196	123	191	119	3	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	39.7	99	39.1	98	2	68-121/19
91-20-3	Naphthalene	40	41.0	103	39.7	99	3	68-129/22
103-65-1	n-Propylbenzene	40	38.6	97	37.3	93	3	67-116/20
100-42-5	Styrene	40	40.3	101	39.6	99	2	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	41.7	104	41.1	103	1	70-129/20
75-65-0	Tert Butyl Alcohol	200	273	137	207	104	28	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	39.1	98	39.1	98	0	70-123/18
71-55-6	1,1,1-Trichloroethane	40	42.5	106	40.4	101	5	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	39.8	100	39.4	99	1	69-126/18
79-00-5	1,1,2-Trichloroethane	40	38.5	96	38.2	96	1	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	39.1	98	37.5	94	4	65-125/23
96-18-4	1,2,3-Trichloropropane	40	40.3	101	39.3	98	3	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	39.5	99	37.6	94	5	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	39.1	98	37.9	95	3	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	39.6	99	38.8	97	2	68-120/20
127-18-4	Tetrachloroethylene	40	38.6	97	38.1	95	1	66-125/18
108-88-3	Toluene	40	38.7	97	38.8	97	0	72-116/18
79-01-6	Trichloroethylene	40	40.5	101	39.3	98	3	70-126/18
75-69-4	Trichlorofluoromethane	40	45.1	113	41.9	105	7	70-138/19
75-01-4	Vinyl chloride	40	44.8	112	41.8	105	7	55-146/22
1330-20-7	Xylene (total)	120	118	98	116	97	2	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	98%	72-140%

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	97%	97%	87-113%
460-00-4	4-Bromofluorobenzene	102%	101%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-LCS	M61833.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	72-140%
2037-26-5	Toluene-D8	95%	87-113%
460-00-4	4-Bromofluorobenzene	101%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-LCS	M61912.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	72-140%
2037-26-5	Toluene-D8	100%	87-113%
460-00-4	4-Bromofluorobenzene	100%	81-115%

* = Outside of Control Limits.

5.3.2
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Compound	C46485-1 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	40 U		160	173	108	160	175	1	47-163/30
71-43-2	Benzene	5.0 U		39.9	31.8	80	39.9	33.2	4	72-122/18
108-86-1	Bromobenzene	5.0 U		39.9	27.0	68	39.9	28.8	6	68-122/19
74-97-5	Bromochloromethane	5.0 U		39.9	33.3	83	39.9	31.7	5	71-129/18
75-27-4	Bromodichloromethane	5.0 U		39.9	26.9	67* a	39.9	27.9	4	68-122/18
75-25-2	Bromoform	5.0 U		39.9	27.0	68* a	39.9	28.1	4	69-126/18
104-51-8	n-Butylbenzene	5.0 U		39.9	24.9	62* a	39.9	25.2	1	66-121/20
135-98-8	sec-Butylbenzene	5.0 U		39.9	28.1	70	39.9	29.2	4	69-118/20
98-06-6	tert-Butylbenzene	5.0 U		39.9	30.5	76	39.9	31.0	2	69-117/20
108-90-7	Chlorobenzene	5.0 U		39.9	29.4	74	39.9	30.5	4	68-117/17
75-00-3	Chloroethane	5.0 U		39.9	34.2	86	39.9	34.2	0	66-134/18
67-66-3	Chloroform	5.0 U		39.9	28.5	71	39.9	28.8	1	68-124/18
95-49-8	o-Chlorotoluene	5.0 U		39.9	25.0	63* a	39.9	27.1	8	65-120/22
106-43-4	p-Chlorotoluene	5.0 U		39.9	25.9	65	39.9	26.1	1	64-123/24
56-23-5	Carbon tetrachloride	5.0 U		39.9	32.8	82	39.9	34.4	5	68-130/20
75-34-3	1,1-Dichloroethane	5.0 U		39.9	30.0	75	39.9	30.4	1	69-122/19
75-35-4	1,1-Dichloroethylene	5.0 U		39.9	33.3	83	39.9	34.2	3	69-120/20
563-58-6	1,1-Dichloropropene	5.0 U		39.9	32.1	80	39.9	33.2	3	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		39.9	25.1	63* a	39.9	26.5	5	64-132/25
106-93-4	1,2-Dibromoethane	5.0 U		39.9	27.5	69* a	39.9	28.1	2	70-122/17
107-06-2	1,2-Dichloroethane	5.0 U		39.9	25.5	64* a	39.9	26.3	3	69-125/18
78-87-5	1,2-Dichloropropane	5.0 U		39.9	29.8	75	39.9	31.1	4	71-122/18
142-28-9	1,3-Dichloropropane	5.0 U		39.9	27.6	69* a	39.9	28.4	3	74-123/17
108-20-3	Di-Isopropyl ether	5.0 U		39.9	26.9	67* a	39.9	27.2	1	69-122/19
594-20-7	2,2-Dichloropropane	5.0 U		39.9	29.2	73	39.9	28.9	1	63-132/24
124-48-1	Dibromochloromethane	5.0 U		39.9	26.6	67* a	39.9	27.9	5	68-121/16
75-71-8	Dichlorodifluoromethane	5.0 U		39.9	24.7	62	39.9	24.4	1	53-119/22
156-59-2	cis-1,2-Dichloroethylene	5.0 U		39.9	33.1	83	39.9	33.3	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	5.0 U		39.9	29.0	73	39.9	30.6	5	71-130/18
541-73-1	m-Dichlorobenzene	5.0 U		39.9	24.3	61* a	39.9	25.2	4	67-119/18
95-50-1	o-Dichlorobenzene	5.0 U		39.9	24.6	62* a	39.9	24.8	1	68-119/17
106-46-7	p-Dichlorobenzene	5.0 U		39.9	24.1	60* a	39.9	24.7	2	67-119/17
156-60-5	trans-1,2-Dichloroethylene	5.0 U		39.9	30.7	77	39.9	31.0	1	66-113/19
10061-02-6	trans-1,3-Dichloropropene	5.0 U		39.9	24.4	61* a	39.9	25.2	3	70-118/17
100-41-4	Ethylbenzene	5.0 U		39.9	30.5	76	39.9	31.2	2	71-118/18
637-92-3	Ethyl tert-Butyl Ether	5.0 U		39.9	27.9	70	39.9	28.4	2	69-125/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Compound	C46485-1 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	20 U		160	124	78	160	126	2	53-153/27
87-68-3	Hexachlorobutadiene	5.0 U		39.9	18.4	46* a	39.9	19.3	5	65-125/22
98-82-8	Isopropylbenzene	5.0 U		39.9	32.2	81	39.9	31.2	3	70-119/19
99-87-6	p-Isopropyltoluene	5.0 U		39.9	28.3	71	39.9	28.6	1	68-120/20
108-10-1	4-Methyl-2-pentanone	20 U		160	104	65	160	111	7	60-145/26
74-83-9	Methyl bromide	5.0 U		39.9	31.6	79	39.9	31.5	0	66-130/18
74-87-3	Methyl chloride	5.0 U		39.9	22.4	56	39.9	22.4	0	50-140/25
74-95-3	Methylene bromide	5.0 U		39.9	28.3	71* a	39.9	29.2	3	72-127/17
75-09-2	Methylene chloride	20 U		39.9	32.2	81	39.9	32.5	1	69-121/18
78-93-3	Methyl ethyl ketone	20 U		160	122	76	160	120	2	59-147/30
1634-04-4	Methyl Tert Butyl Ether	5.0 U		39.9	27.5	69	39.9	26.8	3	68-121/19
91-20-3	Naphthalene	5.0 U		39.9	19.1	48* a	39.9	20.3	6	68-129/22
103-65-1	n-Propylbenzene	5.0 U		39.9	27.8	70	39.9	29.0	4	67-116/20
100-42-5	Styrene	5.0 U		39.9	28.6	72	39.9	28.7	0	68-120/17
994-05-8	Tert-Amyl Methyl Ether	5.0 U		39.9	29.7	74	39.9	29.7	0	70-129/20
75-65-0	Tert Butyl Alcohol	40 U		200	142	71	200	141	1	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		39.9	30.4	76	39.9	30.7	1	70-123/18
71-55-6	1,1,1-Trichloroethane	5.0 U		39.9	32.0	80	39.9	32.4	1	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		39.9	23.6	59* a	39.9	25.4	7	69-126/18
79-00-5	1,1,2-Trichloroethane	5.0 U		39.9	27.0	68* a	39.9	27.9	3	70-120/17
87-61-6	1,2,3-Trichlorobenzene	5.0 U		39.9	15.0	38* a	39.9	15.6	4	65-125/23
96-18-4	1,2,3-Trichloropropane	5.0 U		39.9	28.4	71	39.9	28.7	1	69-128/18
120-82-1	1,2,4-Trichlorobenzene	5.0 U		39.9	16.1	40* a	39.9	16.7	4	65-125/22
95-63-6	1,2,4-Trimethylbenzene	5.0 U		39.9	26.9	67	39.9	27.2	1	67-118/19
108-67-8	1,3,5-Trimethylbenzene	5.0 U		39.9	28.7	72	39.9	28.9	1	68-120/20
127-18-4	Tetrachloroethylene	5.0 U		39.9	53.6	134* a	39.9	55.8	4	66-125/18
108-88-3	Toluene	5.0 U		39.9	31.0	78	39.9	31.9	3	72-116/18
79-01-6	Trichloroethylene	5.0 U		39.9	38.2	96	39.9	39.8	4	70-126/18
75-69-4	Trichlorofluoromethane	5.0 U		39.9	32.9	82	39.9	33.2	1	70-138/19
75-01-4	Vinyl chloride	5.0 U		39.9	26.8	67	39.9	28.6	6	55-146/22
1330-20-7	Xylene (total)	9.9 U		120	93.2	78	120	93.8	1	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46485-1	Limits
1868-53-7	Dibromofluoromethane	90%	89%	100%	72-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9

CAS No.	Surrogate Recoveries	MS	MSD	C46485-1	Limits
2037-26-5	Toluene-D8	94%	94%	94%	87-113%
460-00-4	4-Bromofluorobenzene	97%	94%	101%	81-115%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.4.1
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Compound	C46446-4 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		7160	6010	84	7160	4940	69	20	47-163/30
71-43-2	Benzene	ND		1790	1760	98	1790	1740	97	1	72-122/18
108-86-1	Bromobenzene	ND		1790	1660	93	1790	1670	93	1	68-122/19
74-97-5	Bromochloromethane	ND		1790	1800	101	1790	1780	100	1	71-129/18
75-27-4	Bromodichloromethane	ND		1790	1610	90	1790	1580	88	2	68-122/18
75-25-2	Bromoform	ND		1790	1720	96	1790	1720	96	0	69-126/18
104-51-8	n-Butylbenzene	ND		1790	1570	88	1790	1600	89	2	66-121/20
135-98-8	sec-Butylbenzene	ND		1790	1650	92	1790	1680	94	2	69-118/20
98-06-6	tert-Butylbenzene	ND		1790	1670	93	1790	1690	94	1	69-117/20
108-90-7	Chlorobenzene	ND		1790	1690	94	1790	1700	95	1	68-117/17
75-00-3	Chloroethane	ND		1790	1810	101	1790	1810	101	0	66-134/18
67-66-3	Chloroform	ND		1790	1580	88	1790	1600	89	1	68-124/18
95-49-8	o-Chlorotoluene	ND		1790	1700	95	1790	1650	92	3	65-120/22
106-43-4	p-Chlorotoluene	ND		1790	1380	77	1790	1500	84	8	64-123/24
56-23-5	Carbon tetrachloride	ND		1790	1600	89	1790	1580	88	1	68-130/20
75-34-3	1,1-Dichloroethane	ND		1790	1640	92	1790	1640	92	0	69-122/19
75-35-4	1,1-Dichloroethylene	ND		1790	1650	92	1790	1640	92	1	69-120/20
563-58-6	1,1-Dichloropropene	ND		1790	1630	91	1790	1600	89	2	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		1790	1630	91	1790	1620	91	1	64-132/25
106-93-4	1,2-Dibromoethane	ND		1790	1730	97	1790	1700	95	2	70-122/17
107-06-2	1,2-Dichloroethane	ND		1790	1600	89	1790	1600	89	0	69-125/18
78-87-5	1,2-Dichloropropane	ND		1790	1770	99	1790	1740	97	2	71-122/18
142-28-9	1,3-Dichloropropane	ND		1790	1740	97	1790	1700	95	2	74-123/17
108-20-3	Di-Isopropyl ether	ND		1790	1650	92	1790	1660	93	1	69-122/19
594-20-7	2,2-Dichloropropane	ND		1790	1330	74	1790	1370	77	3	63-132/24
124-48-1	Dibromochloromethane	ND		1790	1640	92	1790	1620	91	1	68-121/16
75-71-8	Dichlorodifluoromethane	ND		1790	1120	63	1790	1100	61	2	53-119/22
156-59-2	cis-1,2-Dichloroethylene	ND		1790	1800	101	1790	1810	101	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	ND		1790	1760	98	1790	1740	97	1	71-130/18
541-73-1	m-Dichlorobenzene	ND		1790	1630	91	1790	1650	92	1	67-119/18
95-50-1	o-Dichlorobenzene	ND		1790	1720	96	1790	1720	96	0	68-119/17
106-46-7	p-Dichlorobenzene	ND		1790	1630	91	1790	1650	92	1	67-119/17
156-60-5	trans-1,2-Dichloroethylene	ND		1790	1570	88	1790	1580	88	1	66-113/19
10061-02-6	trans-1,3-Dichloropropene	ND		1790	1520	85	1790	1520	85	0	70-118/17
100-41-4	Ethylbenzene	ND		1790	1690	94	1790	1700	95	1	71-118/18
637-92-3	Ethyl tert-Butyl Ether	ND		1790	1670	93	1790	1680	94	1	69-125/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Compound	C46446-4 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	ND		7160	6990	98	7160	6860	96	2	53-153/27
87-68-3	Hexachlorobutadiene	ND		1790	1690	94	1790	1710	96	1	65-125/22
98-82-8	Isopropylbenzene	ND		1790	1720	96	1790	1720	96	0	70-119/19
99-87-6	p-Isopropyltoluene	ND		1790	1660	93	1790	1670	93	1	68-120/20
108-10-1	4-Methyl-2-pentanone	ND		7160	6900	96	7160	6820	95	1	60-145/26
74-83-9	Methyl bromide	ND		1790	1620	91	1790	1580	88	3	66-130/18
74-87-3	Methyl chloride	ND		1790	1360	76	1790	1380	77	1	50-140/25
74-95-3	Methylene bromide	ND		1790	1750	98	1790	1690	94	3	72-127/17
75-09-2	Methylene chloride	ND		1790	1640	92	1790	1620	91	1	69-121/18
78-93-3	Methyl ethyl ketone	ND		7160	6170	86	7160	5470	76	12	59-147/30
1634-04-4	Methyl Tert Butyl Ether	ND		1790	1580	88	1790	1530	86	3	68-121/19
91-20-3	Naphthalene	ND		1790	1990	111	1790	2010	112	1	68-129/22
103-65-1	n-Propylbenzene	ND		1790	1550	87	1790	1570	88	1	67-116/20
100-42-5	Styrene	ND		1790	1780	100	1790	1790	100	1	68-120/17
994-05-8	Tert-Amyl Methyl Ether	ND		1790	1740	97	1790	1730	97	1	70-129/20
75-65-0	Tert Butyl Alcohol	ND		8940	10100	113	8940	9840	110	3	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		1790	1700	95	1790	1690	94	1	70-123/18
71-55-6	1,1,1-Trichloroethane	ND		1790	1570	88	1790	1590	89	1	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		1790	1640	92	1790	1670	93	2	69-126/18
79-00-5	1,1,2-Trichloroethane	ND		1790	1780	100	1790	1770	99	1	70-120/17
87-61-6	1,2,3-Trichlorobenzene	ND		1790	1950	109	1790	1980	111	2	65-125/23
96-18-4	1,2,3-Trichloropropane	ND		1790	2020	113	1790	2000	112	1	69-128/18
120-82-1	1,2,4-Trichlorobenzene	ND		1790	1830	102	1790	1820	102	1	65-125/22
95-63-6	1,2,4-Trimethylbenzene	ND		1790	1620	91	1790	1630	91	1	67-118/19
108-67-8	1,3,5-Trimethylbenzene	ND		1790	1650	92	1790	1680	94	2	68-120/20
127-18-4	Tetrachloroethylene	ND		1790	1850	103	1790	1750	98	6	66-125/18
108-88-3	Toluene	ND		1790	1700	95	1790	1690	94	1	72-116/18
79-01-6	Trichloroethylene	ND		1790	1810	101	1790	1770	99	2	70-126/18
75-69-4	Trichlorofluoromethane	ND		1790	1580	88	1790	1580	88	0	70-138/19
75-01-4	Vinyl chloride	ND		1790	945	53* a	1790	966	54* a	2	55-146/22
1330-20-7	Xylene (total)	ND		5370	5110	95	5370	5160	96	1	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46446-4	Limits
1868-53-7	Dibromofluoromethane	91%	91%	95%	72-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4

CAS No.	Surrogate Recoveries	MS	MSD	C46446-4	Limits
2037-26-5	Toluene-D8	94%	95%	97%	87-113%
460-00-4	4-Bromofluorobenzene	103%	103%	111%	81-115%

(a) Outside control limits due to matrix interference. AZ:M2

* = Outside of Control Limits.

5.4.2
 5

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14620-MB	BB5271.D	1	07/12/16	NN	07/11/16	OP14620	GBB172

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	3.3	1.5	mg/kg	
	TPH (> C28-C40)	1.36	3.3	1.3	mg/kg	J

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	76% 38-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14620-BS	BB5269.D	1	07/12/16	NN	07/11/16	OP14620	GBB172
OP14620-BSD	BB5270.D	1	07/12/16	NN	07/11/16	OP14620	GBB172

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	33.3	34.8	104	35.8	107	3	53-107/12
	TPH (> C28-C40)	33.3	32.6	98	34.8	104	7	59-120/14

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	75%	75%	38-146%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14620-MS	BB5278.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
OP14620-MSD	BB5279.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
C46446-3	BB5300.D	4	07/12/16	FL	07/11/16	OP14620	GBB173

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

CAS No.	Compound	C46446-3 mg/kg	Spike Q mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	23.9	33	69.2	155* a	33	80.0	188* a	14* a	53-107/12
	TPH (> C28-C40)	67.5	33	192	480* a	33	191	477* a	1	59-120/14

CAS No.	Surrogate Recoveries	MS	MSD	C46446-3	Limits
630-01-3	Hexacosane	74%	123%	71%	38-146%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C46446
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 07/11/16

Metal	RL	IDL	MDL	MB	
				raw	final
Aluminum	20	.54	1.5		
Antimony	2.0	.16	.18		
Arsenic	2.0	.17	.17		
Barium	20	.025	.09		
Beryllium	1.0	.019	.01		
Boron	10	.27	.15		
Cadmium	1.0	.032	.031		
Calcium	500	1.9	4.5		
Chromium	1.0	.12	.054		
Cobalt	1.0	.049	.025		
Copper	2.5	.1	.15		
Iron	20	.51	.76		
Lead	2.0	.11	.14	-0.030	<2.0
Magnesium	500	3.7	2.1		
Manganese	1.5	.021	.026		
Molybdenum	2.0	.11	.04		
Nickel	1.0	.045	.047		
Potassium	1000	2.9	4.6		
Selenium	2.0	.49	.33		
Silicon	20	.22	.43		
Silver	1.0	.089	.067		
Sodium	1000	2.6	1.2		
Strontium	1.0	.014	.018		
Thallium	2.0	.39	.12		
Tin	50	.3	.28		
Titanium	1.0	.076	.13		
Vanadium	1.0	.043	.074		
Zinc	2.0	.11	.22		

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.1
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46446-9 Original MS	SpikeLot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	4.3	47.5	46.3	93.3 75-125
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

7.1.2
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46446-9 Original MSD	SpikeLot MPIR5	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron					
Lead	4.3	46.8	47.2	90.1	1.5 20
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	anr				
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

7.1.2
 7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	45.3	50	90.6	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

7.1.3
7

SERIAL DILUTION RESULTS SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/11/16

Metal	C46446-9 Original	SDL 1:5	%DIF	QC Limits
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Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	46.0	48.4	5.2	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

7.1.4
7

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services

Premier Hyundai 2820 Broadway Oakland

SGS Accutest Job Number: C46446

Sampling Date: 07/08/16

Report to:

ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA
gabe.stivala@atcassociates.com

ATTN: Gabe Stivala

Total number of pages in report: **215**



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.



ACCUTEST

August 3, 2016

Gabe Stivala
ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA

Re: SGS Accutest Job # C46446 Reissue

Dear Mr. Stivala,

This is a reissued report for SGS Accutest Job # **C46446**, original report dated 7/25/2016.

Additional results for *TPH-GRO* have been retrieved as per your request. Revised result pages and associated QC summary pages have been incorporated into this revised report.

Please contact us at 408-588-0200 if we can be of further assistance in this matter, or if you have any questions regarding this data report.

Sincerely,

SGS Accutest Inc.

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Member of the SGS Group (SGS SA)

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Sample Summary

ATC Group Services

Job No: C46446

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46446-1	07/08/16	09:40	07/08/16	SO	Soil	B30-2'
C46446-1R	07/08/16	09:40	07/08/16	SO	Soil	B30-2'
C46446-2	07/08/16	09:45	07/08/16	SO	Soil	B30-4'
C46446-2R	07/08/16	09:45	07/08/16	SO	Soil	B30-4'
C46446-3	07/08/16	09:50	07/08/16	SO	Soil	B30-5'
C46446-3R	07/08/16	09:50	07/08/16	SO	Soil	B30-5'
C46446-4	07/08/16	10:00	07/08/16	SO	Soil	B30-10'
C46446-4R	07/08/16	10:00	07/08/16	SO	Soil	B30-10'
C46446-5	07/08/16	10:05	07/08/16	SO	Soil	B30-15'
C46446-5R	07/08/16	10:05	07/08/16	SO	Soil	B30-15'
C46446-8	07/08/16	11:35	07/08/16	SO	Soil	B31-2'
C46446-8R	07/08/16	11:35	07/08/16	SO	Soil	B31-2'
C46446-9	07/08/16	11:40	07/08/16	SO	Soil	B31-4'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

ATC Group Services

Job No: C46446

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
C46446-9R	07/08/16	11:40	07/08/16	SO	Soil	B31-4'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C46446
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/08/16

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

C46446-1 B30-2'

TPH (C10-C28)	89.8	66		mg/kg	SW846 8015B M
TPH (> C28-C40)	221	66		mg/kg	SW846 8015B M
Lead	87.1	1.9		mg/kg	SW846 6010B

C46446-1R B30-2'

No hits reported in this sample.

C46446-2 B30-4'

TPH (C10-C28)	4.16	3.3		mg/kg	SW846 8015B M
TPH (> C28-C40)	9.40	3.3		mg/kg	SW846 8015B M
Lead	12.4	1.9		mg/kg	SW846 6010B

C46446-2R B30-4'

No hits reported in this sample.

C46446-3 B30-5'

TPH (C10-C28)	23.9	13		mg/kg	SW846 8015B M
TPH (> C28-C40)	67.5	13		mg/kg	SW846 8015B M
Lead	26.9	1.8		mg/kg	SW846 6010B

C46446-3R B30-5'

No hits reported in this sample.

C46446-4 B30-10'

TPH (C10-C28)	3.89	3.3		mg/kg	SW846 8015B M
TPH (> C28-C40)	3.98	3.3		mg/kg	SW846 8015B M
Lead	6.5	1.9		mg/kg	SW846 6010B

C46446-4R B30-10'

TPH-GRO (C6-C10)	13000	4500		ug/kg	SW846 8260B
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C46446-5 B30-15'

sec-Butylbenzene	642	210		ug/kg	SW846 8260B
Isopropylbenzene	264	210		ug/kg	SW846 8260B
Naphthalene	244	210		ug/kg	SW846 8260B

Summary of Hits

Job Number: C46446
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/08/16

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

TPH (C10-C28)		363	33		mg/kg	SW846 8015B M
TPH (> C28-C40)		149	33		mg/kg	SW846 8015B M
Lead		7.6	1.8		mg/kg	SW846 6010B

C46446-5R B30-15'

TPH-GRO (C6-C10)		61800	4200		ug/kg	SW846 8260B
------------------	--	-------	------	--	-------	-------------

C46446-8 B31-2'

TPH (C10-C28)		80.8	66		mg/kg	SW846 8015B M
TPH (> C28-C40)		231	66		mg/kg	SW846 8015B M
Lead		580	1.9		mg/kg	SW846 6010B

C46446-8R B31-2'

No hits reported in this sample.

C46446-9 B31-4'

TPH (> C28-C40)		3.67	3.3		mg/kg	SW846 8015B M
Lead		4.3	1.9		mg/kg	SW846 6010B

C46446-9R B31-4'

No hits reported in this sample.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: B30-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-1		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61839.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight
Run #1	5.04 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B30-2'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-1	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-2'	
Lab Sample ID: C46446-1	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: B30-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-1		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5273.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	89.8	66	mg/kg	
	TPH (> C28-C40)	221	66	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	73%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-2'	
Lab Sample ID: C46446-1	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	87.1	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: B30-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-1R		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61839.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

	Initial Weight
Run #1	5.04 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	99	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		72-140%	
2037-26-5	Toluene-D8	95%		87-113%	
460-00-4	4-Bromofluorobenzene	104%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: B30-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-2		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61840.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight
Run #1	5.17 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	39	ug/kg	
71-43-2	Benzene	ND	4.8	ug/kg	
108-86-1	Bromobenzene	ND	4.8	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	ug/kg	
75-25-2	Bromoform	ND	4.8	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	ug/kg	
75-00-3	Chloroethane	ND	4.8	ug/kg	
67-66-3	Chloroform	ND	4.8	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B30-4'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-2	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.8	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.8	ug/kg	
74-87-3	Methyl chloride	ND	4.8	ug/kg	
74-95-3	Methylene bromide	ND	4.8	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	ug/kg	
91-20-3	Naphthalene	ND	4.8	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	ug/kg	
100-42-5	Styrene	ND	4.8	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	39	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	ug/kg	
108-88-3	Toluene	ND	4.8	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	ug/kg	
1330-20-7	Xylene (total)	ND	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-4'	
Lab Sample ID: C46446-2	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B30-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-2		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5298.D	1	07/12/16	FL	07/11/16	OP14620	GBB173
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	4.16	3.3	mg/kg	
	TPH (> C28-C40)	9.40	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	70%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-4'	
Lab Sample ID: C46446-2	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	12.4	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B30-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-2R		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61840.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

	Initial Weight
Run #1	5.17 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	97	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		72-140%	
2037-26-5	Toluene-D8	95%		87-113%	
460-00-4	4-Bromofluorobenzene	101%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B30-5'		Date Sampled: 07/08/16
Lab Sample ID: C46446-3		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M61838.D	1	07/13/16	JT	n/a	n/a	VM1859

Run #1	Initial Weight
Run #2	5.06 g

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	4.9	ug/kg	
108-86-1	Bromobenzene	ND	4.9	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	ug/kg	
75-25-2	Bromoform	ND	4.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	ug/kg	
75-00-3	Chloroethane	ND	4.9	ug/kg	
67-66-3	Chloroform	ND	4.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B30-5'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-3	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	ug/kg	
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	4.9	ug/kg	
74-87-3	Methyl chloride	ND	4.9	ug/kg	
74-95-3	Methylene bromide	ND	4.9	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	ug/kg	
91-20-3	Naphthalene	ND	4.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	ug/kg	
100-42-5	Styrene	ND	4.9	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	ug/kg	
108-88-3	Toluene	ND	4.9	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-140%
2037-26-5	Toluene-D8	94%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-5'		Date Sampled: 07/08/16
Lab Sample ID: C46446-3		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-5'		Date Sampled: 07/08/16
Lab Sample ID: C46446-3		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5300.D	4	07/12/16	FL	07/11/16	OP14620	GBB173
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	23.9	13	mg/kg	
	TPH (> C28-C40)	67.5	13	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	71%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-5'	Date Sampled: 07/08/16
Lab Sample ID: C46446-3	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	26.9	1.8	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B30-5'		Date Sampled: 07/08/16
Lab Sample ID: C46446-3R		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61838.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

	Initial Weight
Run #1	5.06 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	99	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		72-140%	
2037-26-5	Toluene-D8	94%		87-113%	
460-00-4	4-Bromofluorobenzene	103%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B30-10'	Date Sampled: 07/08/16
Lab Sample ID: C46446-4	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.59 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1800	ug/kg	
71-43-2	Benzene	ND	220	ug/kg	
108-86-1	Bromobenzene	ND	220	ug/kg	
74-97-5	Bromochloromethane	ND	220	ug/kg	
75-27-4	Bromodichloromethane	ND	220	ug/kg	
75-25-2	Bromoform	ND	220	ug/kg	
104-51-8	n-Butylbenzene	ND	220	ug/kg	
135-98-8	sec-Butylbenzene	ND	220	ug/kg	
98-06-6	tert-Butylbenzene	ND	220	ug/kg	
108-90-7	Chlorobenzene	ND	220	ug/kg	
75-00-3	Chloroethane	ND	220	ug/kg	
67-66-3	Chloroform	ND	220	ug/kg	
95-49-8	o-Chlorotoluene	ND	220	ug/kg	
106-43-4	p-Chlorotoluene	ND	220	ug/kg	
56-23-5	Carbon tetrachloride	ND	220	ug/kg	
75-34-3	1,1-Dichloroethane	ND	220	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	220	ug/kg	
563-58-6	1,1-Dichloropropene	ND	220	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	220	ug/kg	
106-93-4	1,2-Dibromoethane	ND	220	ug/kg	
107-06-2	1,2-Dichloroethane	ND	220	ug/kg	
78-87-5	1,2-Dichloropropane	ND	220	ug/kg	
142-28-9	1,3-Dichloropropane	ND	220	ug/kg	
108-20-3	Di-Isopropyl ether	ND	220	ug/kg	
594-20-7	2,2-Dichloropropane	ND	220	ug/kg	
124-48-1	Dibromochloromethane	ND	220	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	220	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	220	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	220	ug/kg	
541-73-1	m-Dichlorobenzene	ND	220	ug/kg	
95-50-1	o-Dichlorobenzene	ND	220	ug/kg	
106-46-7	p-Dichlorobenzene	ND	220	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B30-10'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-4	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	220	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	220	ug/kg	
100-41-4	Ethylbenzene	ND	220	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	220	ug/kg	
591-78-6	2-Hexanone	ND	890	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	ug/kg	
98-82-8	Isopropylbenzene	ND	220	ug/kg	
99-87-6	p-Isopropyltoluene	ND	220	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	890	ug/kg	
74-83-9	Methyl bromide	ND	220	ug/kg	
74-87-3	Methyl chloride	ND	220	ug/kg	
74-95-3	Methylene bromide	ND	220	ug/kg	
75-09-2	Methylene chloride	ND	890	ug/kg	
78-93-3	Methyl ethyl ketone	ND	890	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	220	ug/kg	
91-20-3	Naphthalene	ND	220	ug/kg	
103-65-1	n-Propylbenzene	ND	220	ug/kg	
100-42-5	Styrene	ND	220	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	220	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1800	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	220	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	220	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	220	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	220	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	220	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	220	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	220	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	220	ug/kg	
127-18-4	Tetrachloroethylene	ND	220	ug/kg	
108-88-3	Toluene	ND	220	ug/kg	
79-01-6	Trichloroethylene	ND	220	ug/kg	
75-69-4	Trichlorofluoromethane	ND	220	ug/kg	
75-01-4	Vinyl chloride	ND	220	ug/kg	
1330-20-7	Xylene (total)	ND	450	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		72-140%
2037-26-5	Toluene-D8	97%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-10'	
Lab Sample ID: C46446-4	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B30-10'		Date Sampled: 07/08/16
Lab Sample ID: C46446-4		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5266.D	1	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	3.89	3.3	mg/kg	
	TPH (> C28-C40)	3.98	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	68%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-10'	Date Sampled: 07/08/16
Lab Sample ID: C46446-4	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.5	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: B30-10'	Date Sampled: 07/08/16
Lab Sample ID: C46446-4R	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.59 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	13000	4500	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	95%		72-140%	
2037-26-5	Toluene-D8	97%		87-113%	
460-00-4	4-Bromofluorobenzene	111%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: B30-15'	Date Sampled: 07/08/16
Lab Sample ID: C46446-5	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: Premier Hyundai 2820 Broadway Oakland	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61849.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.92 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1700	ug/kg	
71-43-2	Benzene	ND	210	ug/kg	
108-86-1	Bromobenzene	ND	210	ug/kg	
74-97-5	Bromochloromethane	ND	210	ug/kg	
75-27-4	Bromodichloromethane	ND	210	ug/kg	
75-25-2	Bromoform	ND	210	ug/kg	
104-51-8	n-Butylbenzene	ND	210	ug/kg	
135-98-8	sec-Butylbenzene	642	210	ug/kg	
98-06-6	tert-Butylbenzene	ND	210	ug/kg	
108-90-7	Chlorobenzene	ND	210	ug/kg	
75-00-3	Chloroethane	ND	210	ug/kg	
67-66-3	Chloroform	ND	210	ug/kg	
95-49-8	o-Chlorotoluene	ND	210	ug/kg	
106-43-4	p-Chlorotoluene	ND	210	ug/kg	
56-23-5	Carbon tetrachloride	ND	210	ug/kg	
75-34-3	1,1-Dichloroethane	ND	210	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	210	ug/kg	
563-58-6	1,1-Dichloropropene	ND	210	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	210	ug/kg	
106-93-4	1,2-Dibromoethane	ND	210	ug/kg	
107-06-2	1,2-Dichloroethane	ND	210	ug/kg	
78-87-5	1,2-Dichloropropane	ND	210	ug/kg	
142-28-9	1,3-Dichloropropane	ND	210	ug/kg	
108-20-3	Di-Isopropyl ether	ND	210	ug/kg	
594-20-7	2,2-Dichloropropane	ND	210	ug/kg	
124-48-1	Dibromochloromethane	ND	210	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	210	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	210	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	210	ug/kg	
541-73-1	m-Dichlorobenzene	ND	210	ug/kg	
95-50-1	o-Dichlorobenzene	ND	210	ug/kg	
106-46-7	p-Dichlorobenzene	ND	210	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-15'		Date Sampled: 07/08/16
Lab Sample ID: C46446-5		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	210	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	210	ug/kg	
100-41-4	Ethylbenzene	ND	210	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	210	ug/kg	
591-78-6	2-Hexanone	ND	840	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	ug/kg	
98-82-8	Isopropylbenzene	264	210	ug/kg	
99-87-6	p-Isopropyltoluene	ND	210	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	840	ug/kg	
74-83-9	Methyl bromide	ND	210	ug/kg	
74-87-3	Methyl chloride	ND	210	ug/kg	
74-95-3	Methylene bromide	ND	210	ug/kg	
75-09-2	Methylene chloride	ND	840	ug/kg	
78-93-3	Methyl ethyl ketone	ND	840	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	210	ug/kg	
91-20-3	Naphthalene	244	210	ug/kg	
103-65-1	n-Propylbenzene	ND	210	ug/kg	
100-42-5	Styrene	ND	210	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	210	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1700	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	210	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	210	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	210	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	210	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	210	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	210	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	210	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	210	ug/kg	
127-18-4	Tetrachloroethylene	ND	210	ug/kg	
108-88-3	Toluene	ND	210	ug/kg	
79-01-6	Trichloroethylene	ND	210	ug/kg	
75-69-4	Trichlorofluoromethane	ND	210	ug/kg	
75-01-4	Vinyl chloride	ND	210	ug/kg	
1330-20-7	Xylene (total)	ND	420	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		72-140%
2037-26-5	Toluene-D8	98%		87-113%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-15'	
Lab Sample ID: C46446-5	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: B30-15'		Date Sampled: 07/08/16
Lab Sample ID: C46446-5		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5267.D	10	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	363	33	mg/kg	
	TPH (> C28-C40)	149	33	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	66%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30-15'	Date Sampled: 07/08/16
Lab Sample ID: C46446-5	Date Received: 07/08/16
Matrix: SO - Soil	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	7.6	1.8	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID: B30-15'		Date Sampled: 07/08/16
Lab Sample ID: C46446-5R		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61849.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.92 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	61800	4200	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	87%		72-140%	
2037-26-5	Toluene-D8	98%		87-113%	
460-00-4	4-Bromofluorobenzene	111%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Client Sample ID: B31-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-8		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61841.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight
Run #1	5.25 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	38	ug/kg	
71-43-2	Benzene	ND	4.8	ug/kg	
108-86-1	Bromobenzene	ND	4.8	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	ug/kg	
75-25-2	Bromoform	ND	4.8	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	ug/kg	
75-00-3	Chloroethane	ND	4.8	ug/kg	
67-66-3	Chloroform	ND	4.8	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-8		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.8	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.8	ug/kg	
74-87-3	Methyl chloride	ND	4.8	ug/kg	
74-95-3	Methylene bromide	ND	4.8	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	ug/kg	
91-20-3	Naphthalene	ND	4.8	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	ug/kg	
100-42-5	Styrene	ND	4.8	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	38	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	ug/kg	
108-88-3	Toluene	ND	4.8	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	ug/kg	
1330-20-7	Xylene (total)	ND	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-2'	
Lab Sample ID: C46446-8	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: B31-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-8		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5275.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	80.8	66	mg/kg	
	TPH (> C28-C40)	231	66	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	68%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-2'	
Lab Sample ID: C46446-8	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	580	1.9	mg/kg	1	07/11/16	07/19/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6017

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

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Client Sample ID: B31-2'		Date Sampled: 07/08/16
Lab Sample ID: C46446-8R		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61841.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight
Run #1	5.25 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	95	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	104%		72-140%	
2037-26-5	Toluene-D8	95%		87-113%	
460-00-4	4-Bromofluorobenzene	98%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

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Client Sample ID: B31-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-9		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61837.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #1	Initial Weight
Run #1	5.24 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	38	ug/kg	
71-43-2	Benzene	ND	4.8	ug/kg	
108-86-1	Bromobenzene	ND	4.8	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	ug/kg	
75-25-2	Bromoform	ND	4.8	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	ug/kg	
75-00-3	Chloroethane	ND	4.8	ug/kg	
67-66-3	Chloroform	ND	4.8	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.8	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.8	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B31-4'	Date Sampled:	07/08/16
Lab Sample ID:	C46446-9	Date Received:	07/08/16
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.8	ug/kg	
591-78-6	2-Hexanone	ND	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	ug/kg	
74-83-9	Methyl bromide	ND	4.8	ug/kg	
74-87-3	Methyl chloride	ND	4.8	ug/kg	
74-95-3	Methylene bromide	ND	4.8	ug/kg	
75-09-2	Methylene chloride	ND	19	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	ug/kg	
91-20-3	Naphthalene	ND	4.8	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	ug/kg	
100-42-5	Styrene	ND	4.8	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	38	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	ug/kg	
108-88-3	Toluene	ND	4.8	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	ug/kg	
1330-20-7	Xylene (total)	ND	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-140%
2037-26-5	Toluene-D8	95%		87-113%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-4'	
Lab Sample ID: C46446-9	Date Sampled: 07/08/16
Matrix: SO - Soil	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		81-115%

(a) All results reported on a wet weight basis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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Client Sample ID: B31-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-9		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3550B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB5299.D	1	07/12/16	FL	07/11/16	OP14620	GBB173
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	3.67	3.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	90%		38-146%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B31-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-9		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Project: Premier Hyundai 2820 Broadway Oakland		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	4.3	1.9	mg/kg	1	07/11/16	07/13/16 RS	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA6001

(2) Prep QC Batch: MP11596

(a) All results reported on a wet weight basis.

RL = Reporting Limit

SGS Accutest

Report of Analysis

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Client Sample ID: B31-4'		Date Sampled: 07/08/16
Lab Sample ID: C46446-9R		Date Received: 07/08/16
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61837.D	1	07/13/16	JT	n/a	n/a	VM1859
Run #2							

Run #	Initial Weight
Run #1	5.24 g
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	95	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		72-140%	
2037-26-5	Toluene-D8	95%		87-113%	
460-00-4	4-Bromofluorobenzene	99%		81-115%	

(a) All results reported on a wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Accutest Sample Receipt Summary

Job Number: C46446

Client: ATC GROUP SERVICES LLC

Project: 915 HIGHLAND POINTE DR. SUITE 250 ROSEVIL

Date / Time Received: 7/8/2016 1:05:00 PM

Delivery Method: Accutest Courier

Airbill #s: _____

Cooler Temps (Initial/Adjusted): #1: (3.2/4.2);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Therm ID: | IR3; | |
| 3. Cooler media: | Ice (bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

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C46446: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-MB	M61834.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	96%	72-140%
2037-26-5	Toluene-D8	93%	87-113%
460-00-4	4-Bromofluorobenzene	101%	81-115%

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	20	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-MB	M61913.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 72-140%
2037-26-5	Toluene-D8	98% 87-113%
460-00-4	4-Bromofluorobenzene	103% 81-115%

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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	182	114	183	114	1	47-163/30
71-43-2	Benzene	40	38.9	97	34.9	87	11	72-122/18
108-86-1	Bromobenzene	40	37.4	94	33.7	84	10	68-122/19
74-97-5	Bromochloromethane	40	39.9	100	37.1	93	7	71-129/18
75-27-4	Bromodichloromethane	40	37.7	94	34.3	86	9	68-122/18
75-25-2	Bromoform	40	40.3	101	37.3	93	8	69-126/18
104-51-8	n-Butylbenzene	40	34.3	86	32.9	82	4	66-121/20
135-98-8	sec-Butylbenzene	40	35.0	88	33.0	83	6	69-118/20
98-06-6	tert-Butylbenzene	40	36.5	91	34.2	86	7	69-117/20
108-90-7	Chlorobenzene	40	38.5	96	35.0	88	10	68-117/17
75-00-3	Chloroethane	40	40.7	102	36.4	91	11	66-134/18
67-66-3	Chloroform	40	36.7	92	33.6	84	9	68-124/18
95-49-8	o-Chlorotoluene	40	34.2	86	30.6	77	11	65-120/22
106-43-4	p-Chlorotoluene	40	35.2	88	32.7	82	7	64-123/24
56-23-5	Carbon tetrachloride	40	39.4	99	35.9	90	9	68-130/20
75-34-3	1,1-Dichloroethane	40	36.7	92	33.5	84	9	69-122/19
75-35-4	1,1-Dichloroethylene	40	36.8	92	33.5	84	9	69-120/20
563-58-6	1,1-Dichloropropene	40	37.5	94	33.4	84	12	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	39.9	100	32.9	82	19	64-132/25
106-93-4	1,2-Dibromoethane	40	38.0	95	34.2	86	11	70-122/17
107-06-2	1,2-Dichloroethane	40	37.9	95	34.3	86	10	69-125/18
78-87-5	1,2-Dichloropropane	40	38.8	97	34.8	87	11	71-122/18
142-28-9	1,3-Dichloropropane	40	38.4	96	34.0	85	12	74-123/17
108-20-3	Di-Isopropyl ether	40	35.9	90	32.9	82	9	69-122/19
594-20-7	2,2-Dichloropropane	40	36.1	90	33.7	84	7	63-132/24
124-48-1	Dibromochloromethane	40	38.5	96	34.4	86	11	68-121/16
75-71-8	Dichlorodifluoromethane	40	29.3	73	25.9	65	12	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	40.4	101	36.7	92	10	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	42.0	105	37.9	95	10	71-130/18
541-73-1	m-Dichlorobenzene	40	36.6	92	33.8	85	8	67-119/18
95-50-1	o-Dichlorobenzene	40	37.5	94	35.1	88	7	68-119/17
106-46-7	p-Dichlorobenzene	40	36.6	92	33.9	85	8	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	35.0	88	32.3	81	8	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	37.1	93	32.9	82	12	70-118/17
100-41-4	Ethylbenzene	40	37.3	93	34.2	86	9	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	38.2	96	34.7	87	10	69-125/19

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	183	114	151	94	19	53-153/27
87-68-3	Hexachlorobutadiene	40	34.6	87	32.7	82	6	65-125/22
98-82-8	Isopropylbenzene	40	37.4	94	35.8	90	4	70-119/19
99-87-6	p-Isopropyltoluene	40	36.1	90	34.0	85	6	68-120/20
108-10-1	4-Methyl-2-pentanone	160	161	101	138	86	15	60-145/26
74-83-9	Methyl bromide	40	39.5	99	35.0	88	12	66-130/18
74-87-3	Methyl chloride	40	29.4	74	25.6	64	14	50-140/25
74-95-3	Methylene bromide	40	39.8	100	35.9	90	10	72-127/17
75-09-2	Methylene chloride	40	38.2	96	34.8	87	9	69-121/18
78-93-3	Methyl ethyl ketone	160	163	102	160	100	2	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	37.8	95	35.3	88	7	68-121/19
91-20-3	Naphthalene	40	38.4	96	34.5	86	11	68-129/22
103-65-1	n-Propylbenzene	40	34.4	86	31.7	79	8	67-116/20
100-42-5	Styrene	40	38.8	97	36.0	90	7	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	40.3	101	37.6	94	7	70-129/20
75-65-0	Tert Butyl Alcohol	200	194	97	213	107	9	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	39.0	98	36.0	90	8	70-123/18
71-55-6	1,1,1-Trichloroethane	40	38.3	96	35.1	88	9	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	37.6	94	33.2	83	12	69-126/18
79-00-5	1,1,2-Trichloroethane	40	37.3	93	32.9	82	13	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	35.0	88	33.1	83	6	65-125/23
96-18-4	1,2,3-Trichloropropane	40	40.4	101	37.1	93	9	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	36.4	91	34.6	87	5	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	35.2	88	32.9	82	7	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	35.9	90	33.1	83	8	68-120/20
127-18-4	Tetrachloroethylene	40	39.3	98	35.9	90	9	66-125/18
108-88-3	Toluene	40	37.1	93	33.5	84	10	72-116/18
79-01-6	Trichloroethylene	40	41.4	104	37.8	95	9	70-126/18
75-69-4	Trichlorofluoromethane	40	41.0	103	36.2	91	12	70-138/19
75-01-4	Vinyl chloride	40	33.8	85	29.8	75	13	55-146/22
1330-20-7	Xylene (total)	120	113	94	105	88	7	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	93%	96%	72-140%

* = Outside of Control Limits.

5.2.1 5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-BS	M61830.D	1	07/13/16	JT	n/a	n/a	VM1859
VM1859-BSD	M61831.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	93%	92%	87-113%
460-00-4	4-Bromofluorobenzene	96%	102%	81-115%

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	184	115	196	123	6	47-163/30
71-43-2	Benzene	40	39.9	100	39.3	98	2	72-122/18
108-86-1	Bromobenzene	40	39.6	99	38.9	97	2	68-122/19
74-97-5	Bromochloromethane	40	41.5	104	40.6	102	2	71-129/18
75-27-4	Bromodichloromethane	40	39.2	98	38.2	96	3	68-122/18
75-25-2	Bromoform	40	39.9	100	39.3	98	2	69-126/18
104-51-8	n-Butylbenzene	40	39.4	99	38.0	95	4	66-121/20
135-98-8	sec-Butylbenzene	40	39.4	99	38.2	96	3	69-118/20
98-06-6	tert-Butylbenzene	40	40.3	101	38.9	97	4	69-117/20
108-90-7	Chlorobenzene	40	38.4	96	38.4	96	0	68-117/17
75-00-3	Chloroethane	40	44.0	110	41.9	105	5	66-134/18
67-66-3	Chloroform	40	40.3	101	39.2	98	3	68-124/18
95-49-8	o-Chlorotoluene	40	40.5	101	39.8	100	2	65-120/22
106-43-4	p-Chlorotoluene	40	37.5	94	35.9	90	4	64-123/24
56-23-5	Carbon tetrachloride	40	40.4	101	39.0	98	4	68-130/20
75-34-3	1,1-Dichloroethane	40	40.8	102	39.4	99	3	69-122/19
75-35-4	1,1-Dichloroethylene	40	39.1	98	38.0	95	3	69-120/20
563-58-6	1,1-Dichloropropene	40	39.0	98	37.7	94	3	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	40	40.6	102	39.0	98	4	64-132/25
106-93-4	1,2-Dibromoethane	40	38.8	97	39.0	98	1	70-122/17
107-06-2	1,2-Dichloroethane	40	39.9	100	38.8	97	3	69-125/18
78-87-5	1,2-Dichloropropane	40	40.4	101	39.4	99	3	71-122/18
142-28-9	1,3-Dichloropropane	40	40.1	100	40.0	100	0	74-123/17
108-20-3	Di-Isopropyl ether	40	40.2	101	39.4	99	2	69-122/19
594-20-7	2,2-Dichloropropane	40	41.9	105	38.8	97	8	63-132/24
124-48-1	Dibromochloromethane	40	38.9	97	38.6	97	1	68-121/16
75-71-8	Dichlorodifluoromethane	40	31.0	78	28.6	72	8	53-119/22
156-59-2	cis-1,2-Dichloroethylene	40	42.8	107	42.3	106	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	40	42.1	105	41.6	104	1	71-130/18
541-73-1	m-Dichlorobenzene	40	39.2	98	38.5	96	2	67-119/18
95-50-1	o-Dichlorobenzene	40	39.4	99	38.8	97	2	68-119/17
106-46-7	p-Dichlorobenzene	40	39.6	99	38.6	97	3	67-119/17
156-60-5	trans-1,2-Dichloroethylene	40	37.9	95	36.9	92	3	66-113/19
10061-02-6	trans-1,3-Dichloropropene	40	38.2	96	37.9	95	1	70-118/17
100-41-4	Ethylbenzene	40	39.6	99	39.0	98	2	71-118/18
637-92-3	Ethyl tert-Butyl Ether	40	41.3	103	39.9	100	3	69-125/19

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	193	121	180	113	7	53-153/27
87-68-3	Hexachlorobutadiene	40	38.6	97	36.0	90	7	65-125/22
98-82-8	Isopropylbenzene	40	39.6	99	38.1	95	4	70-119/19
99-87-6	p-Isopropyltoluene	40	40.2	101	38.6	97	4	68-120/20
108-10-1	4-Methyl-2-pentanone	160	160	100	156	98	3	60-145/26
74-83-9	Methyl bromide	40	42.0	105	40.3	101	4	66-130/18
74-87-3	Methyl chloride	40	36.9	92	33.8	85	9	50-140/25
74-95-3	Methylene bromide	40	39.6	99	39.5	99	0	72-127/17
75-09-2	Methylene chloride	40	39.0	98	38.0	95	3	69-121/18
78-93-3	Methyl ethyl ketone	160	196	123	191	119	3	59-147/30
1634-04-4	Methyl Tert Butyl Ether	40	39.7	99	39.1	98	2	68-121/19
91-20-3	Naphthalene	40	41.0	103	39.7	99	3	68-129/22
103-65-1	n-Propylbenzene	40	38.6	97	37.3	93	3	67-116/20
100-42-5	Styrene	40	40.3	101	39.6	99	2	68-120/17
994-05-8	Tert-Amyl Methyl Ether	40	41.7	104	41.1	103	1	70-129/20
75-65-0	Tert Butyl Alcohol	200	273	137	207	104	28	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	40	39.1	98	39.1	98	0	70-123/18
71-55-6	1,1,1-Trichloroethane	40	42.5	106	40.4	101	5	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	40	39.8	100	39.4	99	1	69-126/18
79-00-5	1,1,2-Trichloroethane	40	38.5	96	38.2	96	1	70-120/17
87-61-6	1,2,3-Trichlorobenzene	40	39.1	98	37.5	94	4	65-125/23
96-18-4	1,2,3-Trichloropropane	40	40.3	101	39.3	98	3	69-128/18
120-82-1	1,2,4-Trichlorobenzene	40	39.5	99	37.6	94	5	65-125/22
95-63-6	1,2,4-Trimethylbenzene	40	39.1	98	37.9	95	3	67-118/19
108-67-8	1,3,5-Trimethylbenzene	40	39.6	99	38.8	97	2	68-120/20
127-18-4	Tetrachloroethylene	40	38.6	97	38.1	95	1	66-125/18
108-88-3	Toluene	40	38.7	97	38.8	97	0	72-116/18
79-01-6	Trichloroethylene	40	40.5	101	39.3	98	3	70-126/18
75-69-4	Trichlorofluoromethane	40	45.1	113	41.9	105	7	70-138/19
75-01-4	Vinyl chloride	40	44.8	112	41.8	105	7	55-146/22
1330-20-7	Xylene (total)	120	118	98	116	97	2	68-118/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	98%	72-140%

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-BS	M61910.D	1	07/18/16	JT	n/a	n/a	VM1861
VM1861-BSD	M61911.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	97%	97%	87-113%
460-00-4	4-Bromofluorobenzene	102%	101%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1859-LCS	M61833.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	210	84	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	72-140%
2037-26-5	Toluene-D8	95%	87-113%
460-00-4	4-Bromofluorobenzene	101%	81-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1861-LCS	M61912.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	296	118	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	72-140%
2037-26-5	Toluene-D8	100%	87-113%
460-00-4	4-Bromofluorobenzene	100%	81-115%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Compound	C46485-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	40 U	160	173	108	160	175	110	1	47-163/30
71-43-2	Benzene	5.0 U	39.9	31.8	80	39.9	33.2	83	4	72-122/18
108-86-1	Bromobenzene	5.0 U	39.9	27.0	68	39.9	28.8	72	6	68-122/19
74-97-5	Bromochloromethane	5.0 U	39.9	33.3	83	39.9	31.7	79	5	71-129/18
75-27-4	Bromodichloromethane	5.0 U	39.9	26.9	67* a	39.9	27.9	70	4	68-122/18
75-25-2	Bromoform	5.0 U	39.9	27.0	68* a	39.9	28.1	70	4	69-126/18
104-51-8	n-Butylbenzene	5.0 U	39.9	24.9	62* a	39.9	25.2	63* a	1	66-121/20
135-98-8	sec-Butylbenzene	5.0 U	39.9	28.1	70	39.9	29.2	73	4	69-118/20
98-06-6	tert-Butylbenzene	5.0 U	39.9	30.5	76	39.9	31.0	78	2	69-117/20
108-90-7	Chlorobenzene	5.0 U	39.9	29.4	74	39.9	30.5	76	4	68-117/17
75-00-3	Chloroethane	5.0 U	39.9	34.2	86	39.9	34.2	86	0	66-134/18
67-66-3	Chloroform	5.0 U	39.9	28.5	71	39.9	28.8	72	1	68-124/18
95-49-8	o-Chlorotoluene	5.0 U	39.9	25.0	63* a	39.9	27.1	68	8	65-120/22
106-43-4	p-Chlorotoluene	5.0 U	39.9	25.9	65	39.9	26.1	65	1	64-123/24
56-23-5	Carbon tetrachloride	5.0 U	39.9	32.8	82	39.9	34.4	86	5	68-130/20
75-34-3	1,1-Dichloroethane	5.0 U	39.9	30.0	75	39.9	30.4	76	1	69-122/19
75-35-4	1,1-Dichloroethylene	5.0 U	39.9	33.3	83	39.9	34.2	86	3	69-120/20
563-58-6	1,1-Dichloropropene	5.0 U	39.9	32.1	80	39.9	33.2	83	3	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U	39.9	25.1	63* a	39.9	26.5	66	5	64-132/25
106-93-4	1,2-Dibromoethane	5.0 U	39.9	27.5	69* a	39.9	28.1	70	2	70-122/17
107-06-2	1,2-Dichloroethane	5.0 U	39.9	25.5	64* a	39.9	26.3	66* a	3	69-125/18
78-87-5	1,2-Dichloropropane	5.0 U	39.9	29.8	75	39.9	31.1	78	4	71-122/18
142-28-9	1,3-Dichloropropane	5.0 U	39.9	27.6	69* a	39.9	28.4	71* a	3	74-123/17
108-20-3	Di-Isopropyl ether	5.0 U	39.9	26.9	67* a	39.9	27.2	68* a	1	69-122/19
594-20-7	2,2-Dichloropropane	5.0 U	39.9	29.2	73	39.9	28.9	72	1	63-132/24
124-48-1	Dibromochloromethane	5.0 U	39.9	26.6	67* a	39.9	27.9	70	5	68-121/16
75-71-8	Dichlorodifluoromethane	5.0 U	39.9	24.7	62	39.9	24.4	61	1	53-119/22
156-59-2	cis-1,2-Dichloroethylene	5.0 U	39.9	33.1	83	39.9	33.3	83	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	5.0 U	39.9	29.0	73	39.9	30.6	77	5	71-130/18
541-73-1	m-Dichlorobenzene	5.0 U	39.9	24.3	61* a	39.9	25.2	63* a	4	67-119/18
95-50-1	o-Dichlorobenzene	5.0 U	39.9	24.6	62* a	39.9	24.8	62* a	1	68-119/17
106-46-7	p-Dichlorobenzene	5.0 U	39.9	24.1	60* a	39.9	24.7	62* a	2	67-119/17
156-60-5	trans-1,2-Dichloroethylene	5.0 U	39.9	30.7	77	39.9	31.0	78	1	66-113/19
10061-02-6	trans-1,3-Dichloropropene	5.0 U	39.9	24.4	61* a	39.9	25.2	63* a	3	70-118/17
100-41-4	Ethylbenzene	5.0 U	39.9	30.5	76	39.9	31.2	78	2	71-118/18
637-92-3	Ethyl tert-Butyl Ether	5.0 U	39.9	27.9	70	39.9	28.4	71	2	69-125/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Compound	C46485-1 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	20 U		160	124	78	160	126	79	2	53-153/27
87-68-3	Hexachlorobutadiene	5.0 U		39.9	18.4	46* a	39.9	19.3	48* a	5	65-125/22
98-82-8	Isopropylbenzene	5.0 U		39.9	32.2	81	39.9	31.2	78	3	70-119/19
99-87-6	p-Isopropyltoluene	5.0 U		39.9	28.3	71	39.9	28.6	72	1	68-120/20
108-10-1	4-Methyl-2-pentanone	20 U		160	104	65	160	111	70	7	60-145/26
74-83-9	Methyl bromide	5.0 U		39.9	31.6	79	39.9	31.5	79	0	66-130/18
74-87-3	Methyl chloride	5.0 U		39.9	22.4	56	39.9	22.4	56	0	50-140/25
74-95-3	Methylene bromide	5.0 U		39.9	28.3	71* a	39.9	29.2	73	3	72-127/17
75-09-2	Methylene chloride	20 U		39.9	32.2	81	39.9	32.5	81	1	69-121/18
78-93-3	Methyl ethyl ketone	20 U		160	122	76	160	120	75	2	59-147/30
1634-04-4	Methyl Tert Butyl Ether	5.0 U		39.9	27.5	69	39.9	26.8	67* a	3	68-121/19
91-20-3	Naphthalene	5.0 U		39.9	19.1	48* a	39.9	20.3	51* a	6	68-129/22
103-65-1	n-Propylbenzene	5.0 U		39.9	27.8	70	39.9	29.0	73	4	67-116/20
100-42-5	Styrene	5.0 U		39.9	28.6	72	39.9	28.7	72	0	68-120/17
994-05-8	Tert-Amyl Methyl Ether	5.0 U		39.9	29.7	74	39.9	29.7	74	0	70-129/20
75-65-0	Tert Butyl Alcohol	40 U		200	142	71	200	141	71	1	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		39.9	30.4	76	39.9	30.7	77	1	70-123/18
71-55-6	1,1,1-Trichloroethane	5.0 U		39.9	32.0	80	39.9	32.4	81	1	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		39.9	23.6	59* a	39.9	25.4	64* a	7	69-126/18
79-00-5	1,1,2-Trichloroethane	5.0 U		39.9	27.0	68* a	39.9	27.9	70	3	70-120/17
87-61-6	1,2,3-Trichlorobenzene	5.0 U		39.9	15.0	38* a	39.9	15.6	39* a	4	65-125/23
96-18-4	1,2,3-Trichloropropane	5.0 U		39.9	28.4	71	39.9	28.7	72	1	69-128/18
120-82-1	1,2,4-Trichlorobenzene	5.0 U		39.9	16.1	40* a	39.9	16.7	42* a	4	65-125/22
95-63-6	1,2,4-Trimethylbenzene	5.0 U		39.9	26.9	67	39.9	27.2	68	1	67-118/19
108-67-8	1,3,5-Trimethylbenzene	5.0 U		39.9	28.7	72	39.9	28.9	72	1	68-120/20
127-18-4	Tetrachloroethylene	5.0 U		39.9	53.6	134* a	39.9	55.8	140* a	4	66-125/18
108-88-3	Toluene	5.0 U		39.9	31.0	78	39.9	31.9	80	3	72-116/18
79-01-6	Trichloroethylene	5.0 U		39.9	38.2	96	39.9	39.8	100	4	70-126/18
75-69-4	Trichlorofluoromethane	5.0 U		39.9	32.9	82	39.9	33.2	83	1	70-138/19
75-01-4	Vinyl chloride	5.0 U		39.9	26.8	67	39.9	28.6	72	6	55-146/22
1330-20-7	Xylene (total)	9.9 U		120	93.2	78	120	93.8	78	1	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46485-1	Limits
1868-53-7	Dibromofluoromethane	90%	89%	100%	72-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46485-1MS	M61850.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1MSD	M61851.D	1	07/13/16	JT	n/a	n/a	VM1859
C46485-1	M61836.D	1	07/13/16	JT	n/a	n/a	VM1859

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-1, C46446-2, C46446-3, C46446-5, C46446-8, C46446-9, C46446-1R, C46446-2R, C46446-3R, C46446-5R, C46446-8R, C46446-9R

CAS No.	Surrogate Recoveries	MS	MSD	C46485-1	Limits
2037-26-5	Toluene-D8	94%	94%	94%	87-113%
460-00-4	4-Bromofluorobenzene	97%	94%	101%	81-115%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.4.1
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Compound	C46446-4 ug/kg	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	7160	6010	84	7160	4940	69	20	47-163/30
71-43-2	Benzene	ND	1790	1760	98	1790	1740	97	1	72-122/18
108-86-1	Bromobenzene	ND	1790	1660	93	1790	1670	93	1	68-122/19
74-97-5	Bromochloromethane	ND	1790	1800	101	1790	1780	100	1	71-129/18
75-27-4	Bromodichloromethane	ND	1790	1610	90	1790	1580	88	2	68-122/18
75-25-2	Bromoform	ND	1790	1720	96	1790	1720	96	0	69-126/18
104-51-8	n-Butylbenzene	ND	1790	1570	88	1790	1600	89	2	66-121/20
135-98-8	sec-Butylbenzene	ND	1790	1650	92	1790	1680	94	2	69-118/20
98-06-6	tert-Butylbenzene	ND	1790	1670	93	1790	1690	94	1	69-117/20
108-90-7	Chlorobenzene	ND	1790	1690	94	1790	1700	95	1	68-117/17
75-00-3	Chloroethane	ND	1790	1810	101	1790	1810	101	0	66-134/18
67-66-3	Chloroform	ND	1790	1580	88	1790	1600	89	1	68-124/18
95-49-8	o-Chlorotoluene	ND	1790	1700	95	1790	1650	92	3	65-120/22
106-43-4	p-Chlorotoluene	ND	1790	1380	77	1790	1500	84	8	64-123/24
56-23-5	Carbon tetrachloride	ND	1790	1600	89	1790	1580	88	1	68-130/20
75-34-3	1,1-Dichloroethane	ND	1790	1640	92	1790	1640	92	0	69-122/19
75-35-4	1,1-Dichloroethylene	ND	1790	1650	92	1790	1640	92	1	69-120/20
563-58-6	1,1-Dichloropropene	ND	1790	1630	91	1790	1600	89	2	69-120/19
96-12-8	1,2-Dibromo-3-chloropropane	ND	1790	1630	91	1790	1620	91	1	64-132/25
106-93-4	1,2-Dibromoethane	ND	1790	1730	97	1790	1700	95	2	70-122/17
107-06-2	1,2-Dichloroethane	ND	1790	1600	89	1790	1600	89	0	69-125/18
78-87-5	1,2-Dichloropropane	ND	1790	1770	99	1790	1740	97	2	71-122/18
142-28-9	1,3-Dichloropropane	ND	1790	1740	97	1790	1700	95	2	74-123/17
108-20-3	Di-Isopropyl ether	ND	1790	1650	92	1790	1660	93	1	69-122/19
594-20-7	2,2-Dichloropropane	ND	1790	1330	74	1790	1370	77	3	63-132/24
124-48-1	Dibromochloromethane	ND	1790	1640	92	1790	1620	91	1	68-121/16
75-71-8	Dichlorodifluoromethane	ND	1790	1120	63	1790	1100	61	2	53-119/22
156-59-2	cis-1,2-Dichloroethylene	ND	1790	1800	101	1790	1810	101	1	72-130/18
10061-01-5	cis-1,3-Dichloropropene	ND	1790	1760	98	1790	1740	97	1	71-130/18
541-73-1	m-Dichlorobenzene	ND	1790	1630	91	1790	1650	92	1	67-119/18
95-50-1	o-Dichlorobenzene	ND	1790	1720	96	1790	1720	96	0	68-119/17
106-46-7	p-Dichlorobenzene	ND	1790	1630	91	1790	1650	92	1	67-119/17
156-60-5	trans-1,2-Dichloroethylene	ND	1790	1570	88	1790	1580	88	1	66-113/19
10061-02-6	trans-1,3-Dichloropropene	ND	1790	1520	85	1790	1520	85	0	70-118/17
100-41-4	Ethylbenzene	ND	1790	1690	94	1790	1700	95	1	71-118/18
637-92-3	Ethyl tert-Butyl Ether	ND	1790	1670	93	1790	1680	94	1	69-125/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Compound	C46446-4 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	ND		7160	6990	98	7160	6860	96	2	53-153/27
87-68-3	Hexachlorobutadiene	ND		1790	1690	94	1790	1710	96	1	65-125/22
98-82-8	Isopropylbenzene	ND		1790	1720	96	1790	1720	96	0	70-119/19
99-87-6	p-Isopropyltoluene	ND		1790	1660	93	1790	1670	93	1	68-120/20
108-10-1	4-Methyl-2-pentanone	ND		7160	6900	96	7160	6820	95	1	60-145/26
74-83-9	Methyl bromide	ND		1790	1620	91	1790	1580	88	3	66-130/18
74-87-3	Methyl chloride	ND		1790	1360	76	1790	1380	77	1	50-140/25
74-95-3	Methylene bromide	ND		1790	1750	98	1790	1690	94	3	72-127/17
75-09-2	Methylene chloride	ND		1790	1640	92	1790	1620	91	1	69-121/18
78-93-3	Methyl ethyl ketone	ND		7160	6170	86	7160	5470	76	12	59-147/30
1634-04-4	Methyl Tert Butyl Ether	ND		1790	1580	88	1790	1530	86	3	68-121/19
91-20-3	Naphthalene	ND		1790	1990	111	1790	2010	112	1	68-129/22
103-65-1	n-Propylbenzene	ND		1790	1550	87	1790	1570	88	1	67-116/20
100-42-5	Styrene	ND		1790	1780	100	1790	1790	100	1	68-120/17
994-05-8	Tert-Amyl Methyl Ether	ND		1790	1740	97	1790	1730	97	1	70-129/20
75-65-0	Tert Butyl Alcohol	ND		8940	10100	113	8940	9840	110	3	50-163/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		1790	1700	95	1790	1690	94	1	70-123/18
71-55-6	1,1,1-Trichloroethane	ND		1790	1570	88	1790	1590	89	1	71-128/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		1790	1640	92	1790	1670	93	2	69-126/18
79-00-5	1,1,2-Trichloroethane	ND		1790	1780	100	1790	1770	99	1	70-120/17
87-61-6	1,2,3-Trichlorobenzene	ND		1790	1950	109	1790	1980	111	2	65-125/23
96-18-4	1,2,3-Trichloropropane	ND		1790	2020	113	1790	2000	112	1	69-128/18
120-82-1	1,2,4-Trichlorobenzene	ND		1790	1830	102	1790	1820	102	1	65-125/22
95-63-6	1,2,4-Trimethylbenzene	ND		1790	1620	91	1790	1630	91	1	67-118/19
108-67-8	1,3,5-Trimethylbenzene	ND		1790	1650	92	1790	1680	94	2	68-120/20
127-18-4	Tetrachloroethylene	ND		1790	1850	103	1790	1750	98	6	66-125/18
108-88-3	Toluene	ND		1790	1700	95	1790	1690	94	1	72-116/18
79-01-6	Trichloroethylene	ND		1790	1810	101	1790	1770	99	2	70-126/18
75-69-4	Trichlorofluoromethane	ND		1790	1580	88	1790	1580	88	0	70-138/19
75-01-4	Vinyl chloride	ND		1790	945	53* a	1790	966	54* a	2	55-146/22
1330-20-7	Xylene (total)	ND		5370	5110	95	5370	5160	96	1	68-118/18

CAS No.	Surrogate Recoveries	MS	MSD	C46446-4	Limits
1868-53-7	Dibromofluoromethane	91%	91%	95%	72-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46446-4MS	M61930.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4MSD	M61931.D	1	07/19/16	JT	n/a	n/a	VM1861
C46446-4	M61918.D	1	07/18/16	JT	n/a	n/a	VM1861

The QC reported here applies to the following samples:

Method: SW846 8260B

C46446-4, C46446-4R

CAS No.	Surrogate Recoveries	MS	MSD	C46446-4	Limits
2037-26-5	Toluene-D8	94%	95%	97%	87-113%
460-00-4	4-Bromofluorobenzene	103%	103%	111%	81-115%

(a) Outside control limits due to matrix interference. AZ:M2

* = Outside of Control Limits.

5.4.2
 5

GC/MS Volatiles

Raw Data

9

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61839.D
Acq On : 13 Jul 2016 4:31 pm
Operator : johannat
Sample : C46446-1
Misc : MS1912,VM1859,5.04,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 03 18:23:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.353	168	143919	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.672	114	219602	20.00	ppb	0.00
55) Chlorobenzene-d5	16.365	117	207335	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.362	152	109708	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.362	152	109708	20.00	ppb	0.02

System Monitoring Compounds						
36) Dibromofluoromethane	11.469	111	74676	20.46	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	102.30%		
56) Toluene-d8	14.603	98	257614	19.04	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	95.20%		
74) 4-Bromofluorobenzene	17.864	95	110253	20.72	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	103.60%		

Target Compounds					Qvalue
100) TPH-GRO (C6-C10)	14.603	TIC	3405976m	8.32	ppb

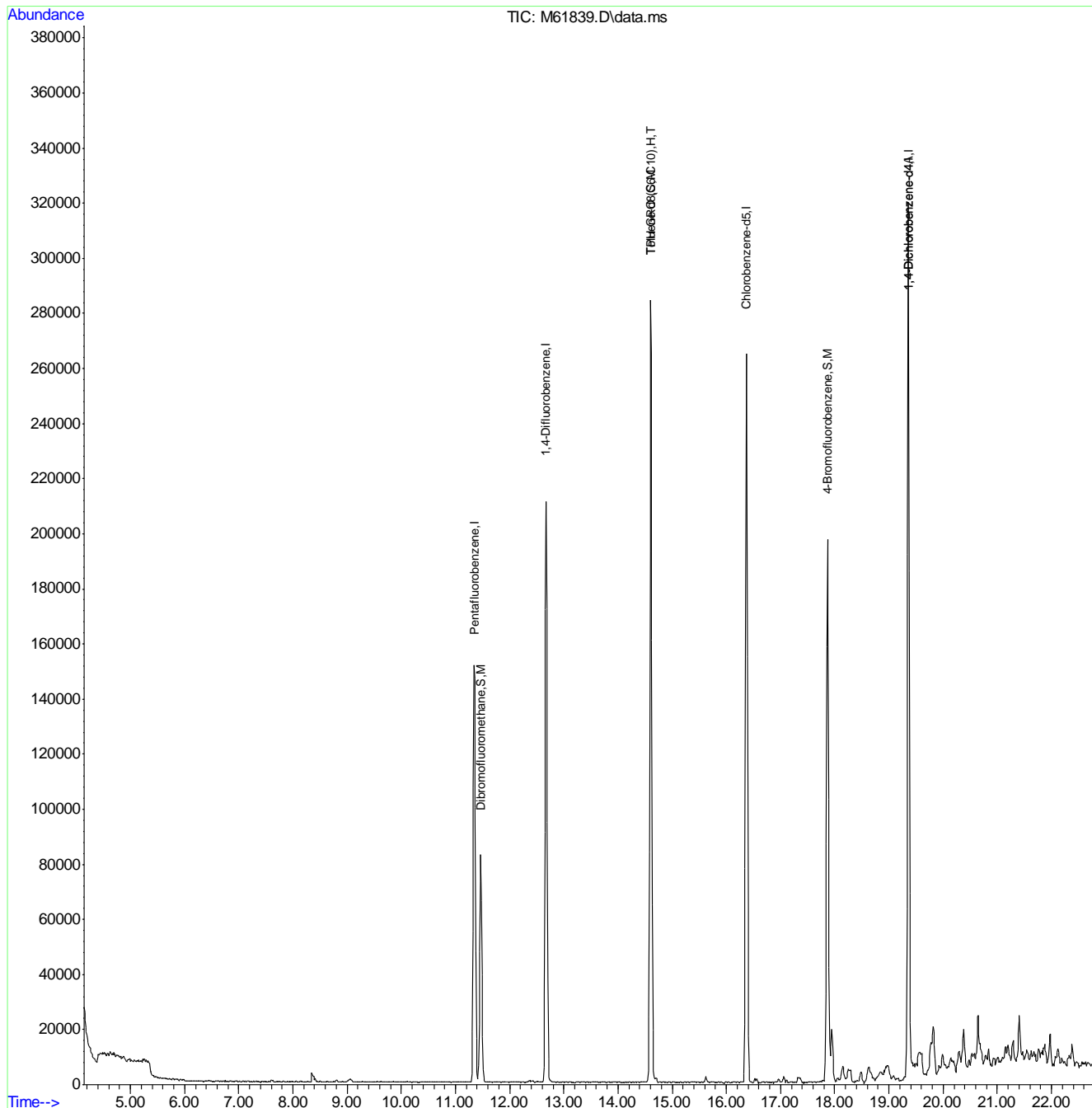
(#) = qualifier out of range (m) = manual integration (+) = signals summed

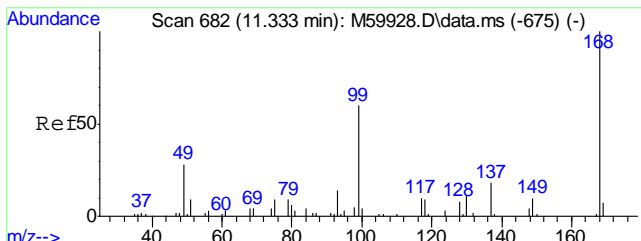
6.1.1
6

Quantitation Report (QT Reviewed)

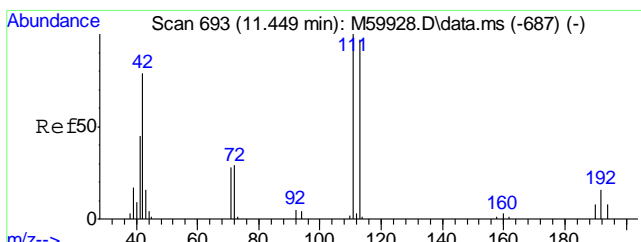
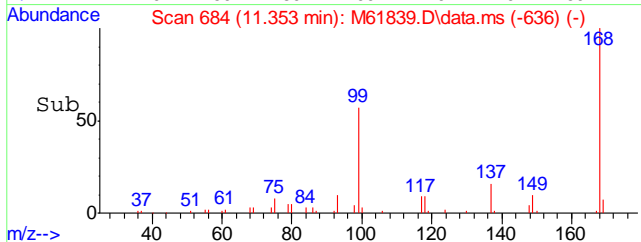
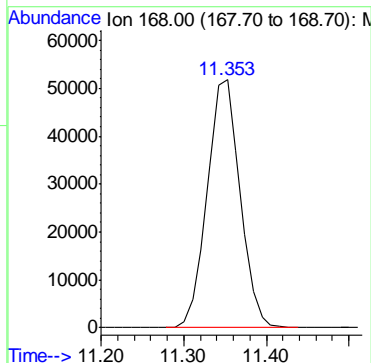
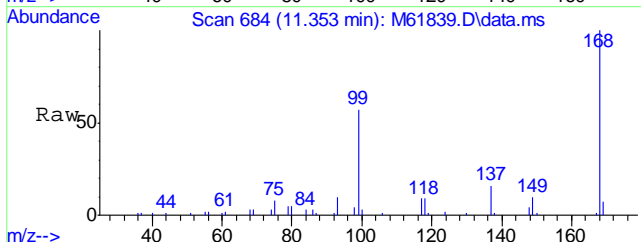
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61839.D
 Acq On : 13 Jul 2016 4:31 pm
 Operator : johannat
 Sample : C46446-1
 Misc : MS1912,VM1859,5.04,,,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 03 18:23:20 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

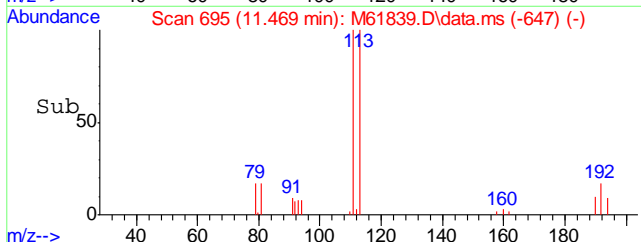
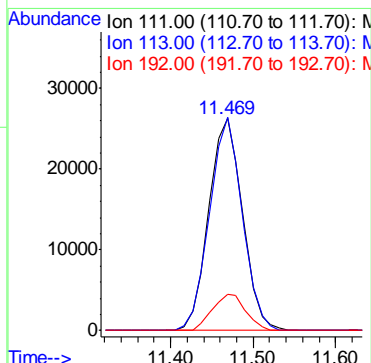
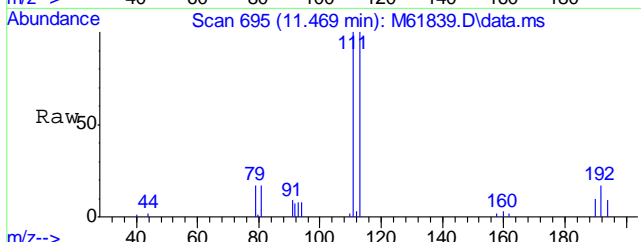




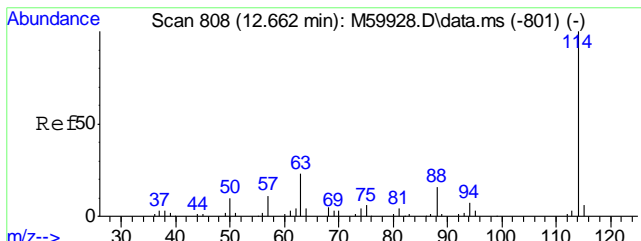
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.353 min Scan# 684
 Delta R.T. 0.009 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm
 Tgt Ion:168 Resp: 143919



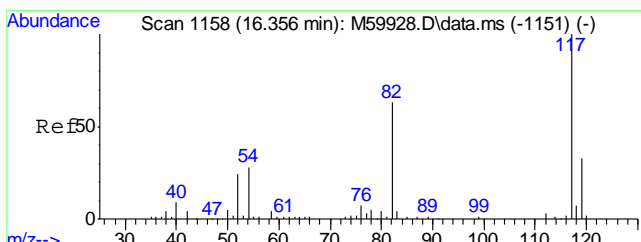
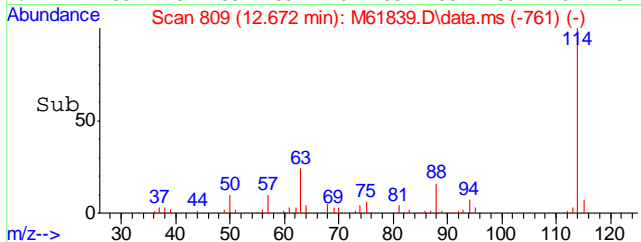
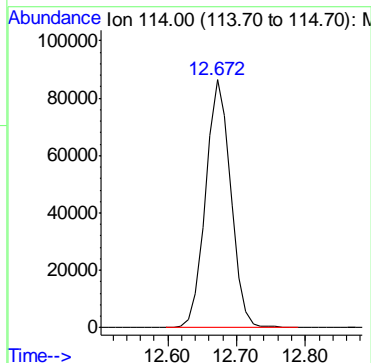
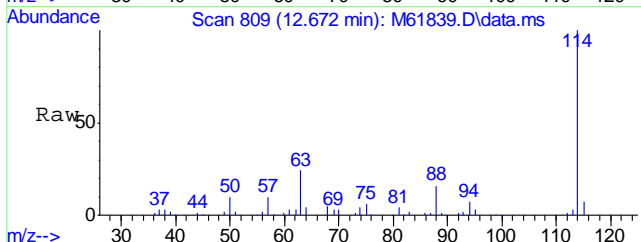
#36
 Dibromofluoromethane
 Concen: 20.46 ppb
 RT: 11.469 min Scan# 695
 Delta R.T. 0.009 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm
 Tgt Ion:111 Resp: 74676



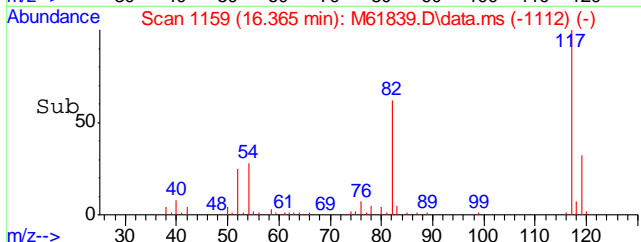
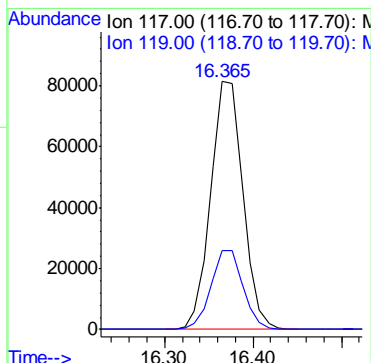
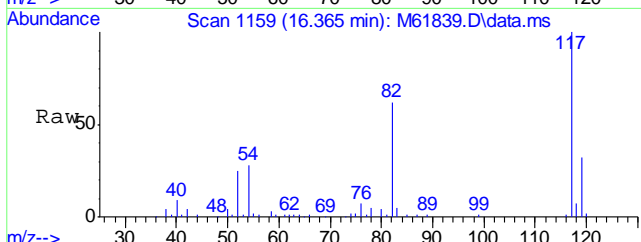
Ion	Ratio	Lower	Upper
111	100		
113	97.7	77.7	117.7
192	16.9	0.0	36.3

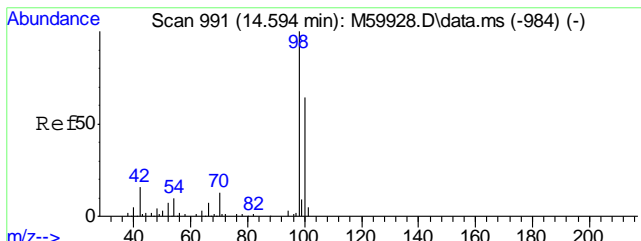


#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.672 min Scan# 809
Delta R.T. 0.009 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm
Tgt Ion:114 Resp: 219602



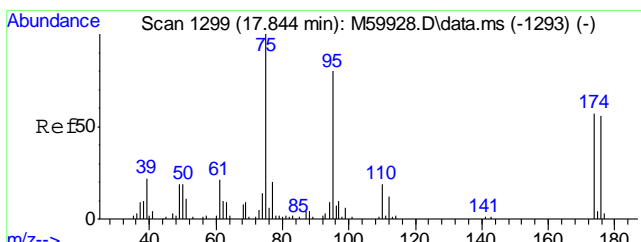
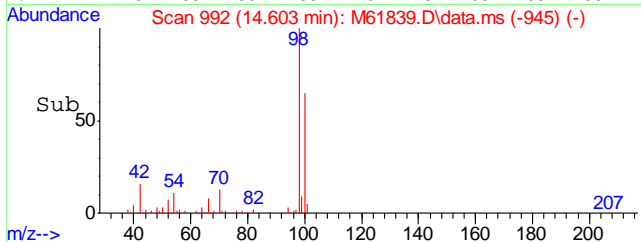
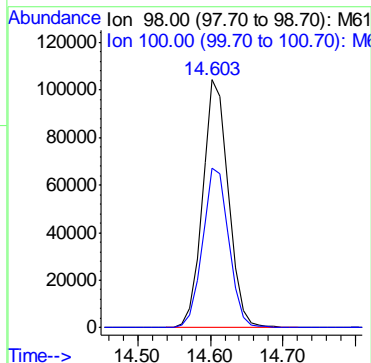
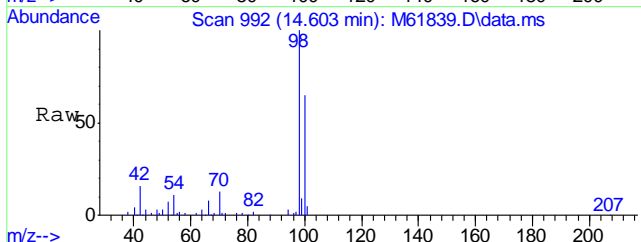
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.365 min Scan# 1159
Delta R.T. -0.001 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm
Tgt Ion:117 Resp: 207335
Ion Ratio Lower Upper
117 100
119 31.8 11.2 51.2





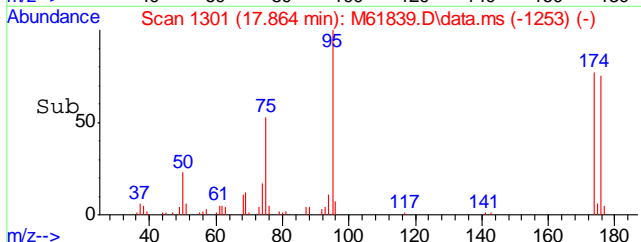
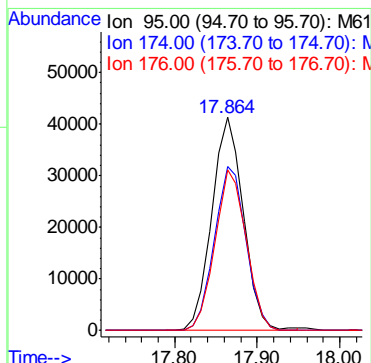
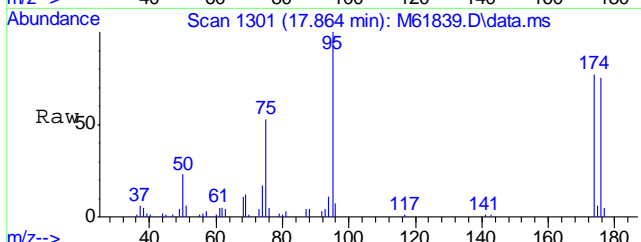
#56
Toluene-d8
Concen: 19.04 ppb
RT: 14.603 min Scan# 992
Delta R.T. -0.001 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm

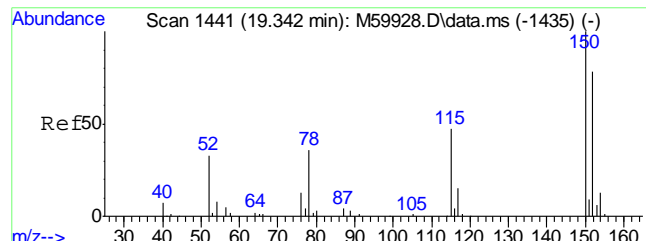
Tgt Ion	Resp	Lower	Upper
98	257614		
98	100		
100	65.6	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.72 ppb
RT: 17.864 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm

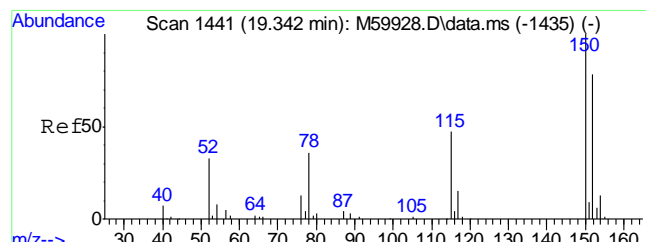
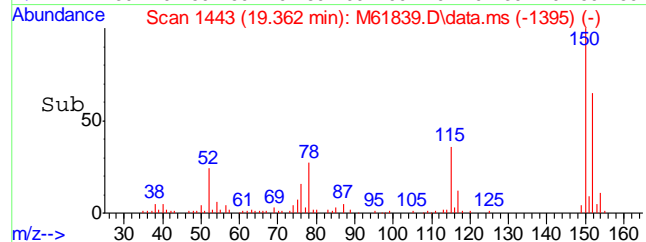
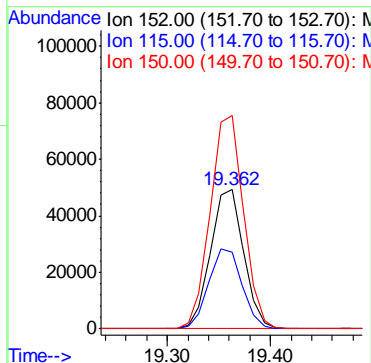
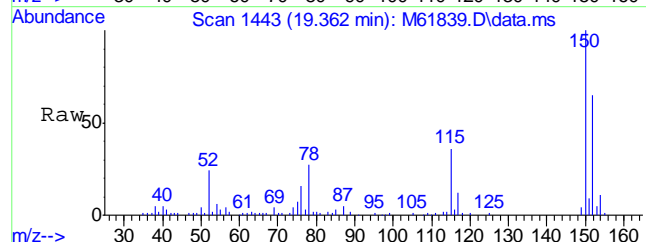
Tgt Ion	Resp	Lower	Upper
95	110253		
95	100		
174	76.8	54.3	94.3
176	74.4	51.5	91.5





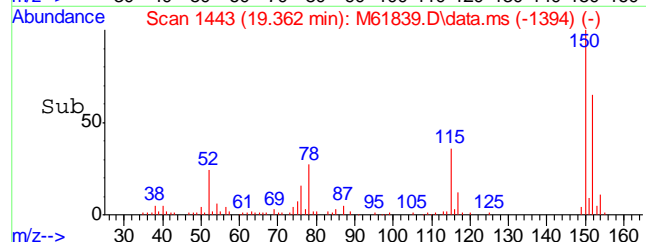
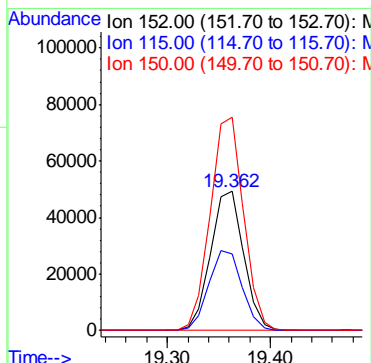
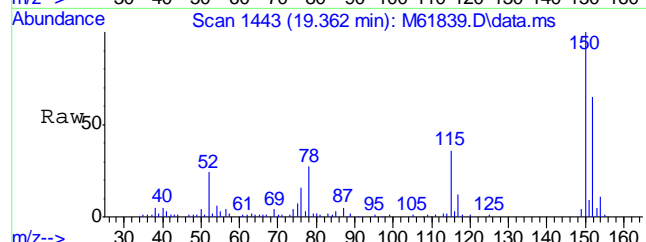
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.362 min Scan# 1443
 Delta R.T. 0.009 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm

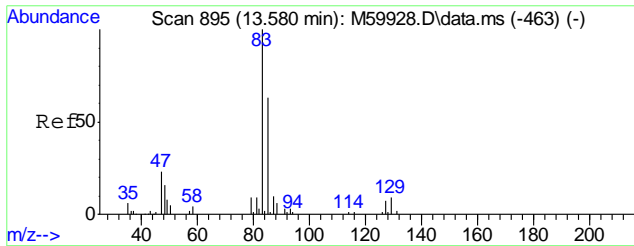
Tgt Ion	Resp	Lower	Upper
152	109708		
152	100		
115	57.9	40.9	80.9
150	154.3	178.6	218.6#



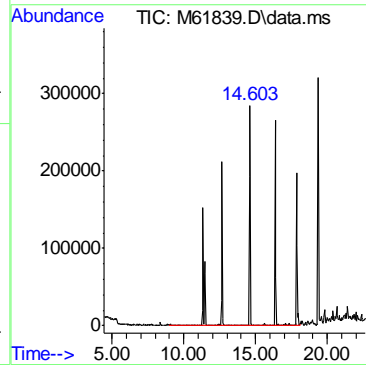
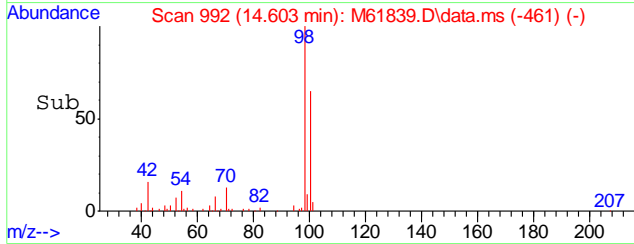
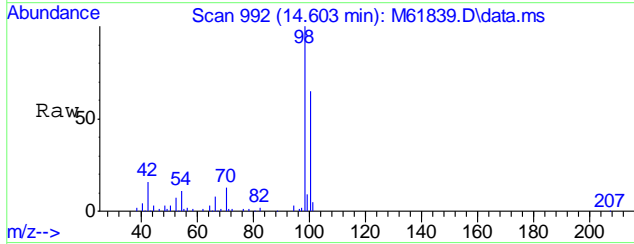
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.362 min Scan# 1443
 Delta R.T. 0.020 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm

Tgt Ion	Resp	Lower	Upper
152	109708		
152	100		
115	57.9	37.3	77.3
150	154.3	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 8.32 ppb m
RT: 14.603 min Scan# 992
Delta R.T. 1.053 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm
Tgt Ion:TIC Resp: 3405976



6.1.1
9

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61839.D
Acq On : 13 Jul 2016 4:31 pm
Operator : johannat
Sample : C46446-1
Misc : MS1912,VM1859,5.04,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 03 18:23:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.353	168	143919	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.672	114	219602	20.00	ppb	0.00
55) Chlorobenzene-d5	16.365	117	207335	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.362	152	109708	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.362	152	109708	20.00	ppb	0.02

System Monitoring Compounds						
36) Dibromofluoromethane	11.469	111	74676	20.46	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	102.30%		
56) Toluene-d8	14.603	98	257614	19.04	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	95.20%		
74) 4-Bromofluorobenzene	17.864	95	110253	20.72	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	103.60%		

Target Compounds					Qvalue
100) TPH-GRO (C6-C10)	14.603	TIC	3405976m	8.32	ppb

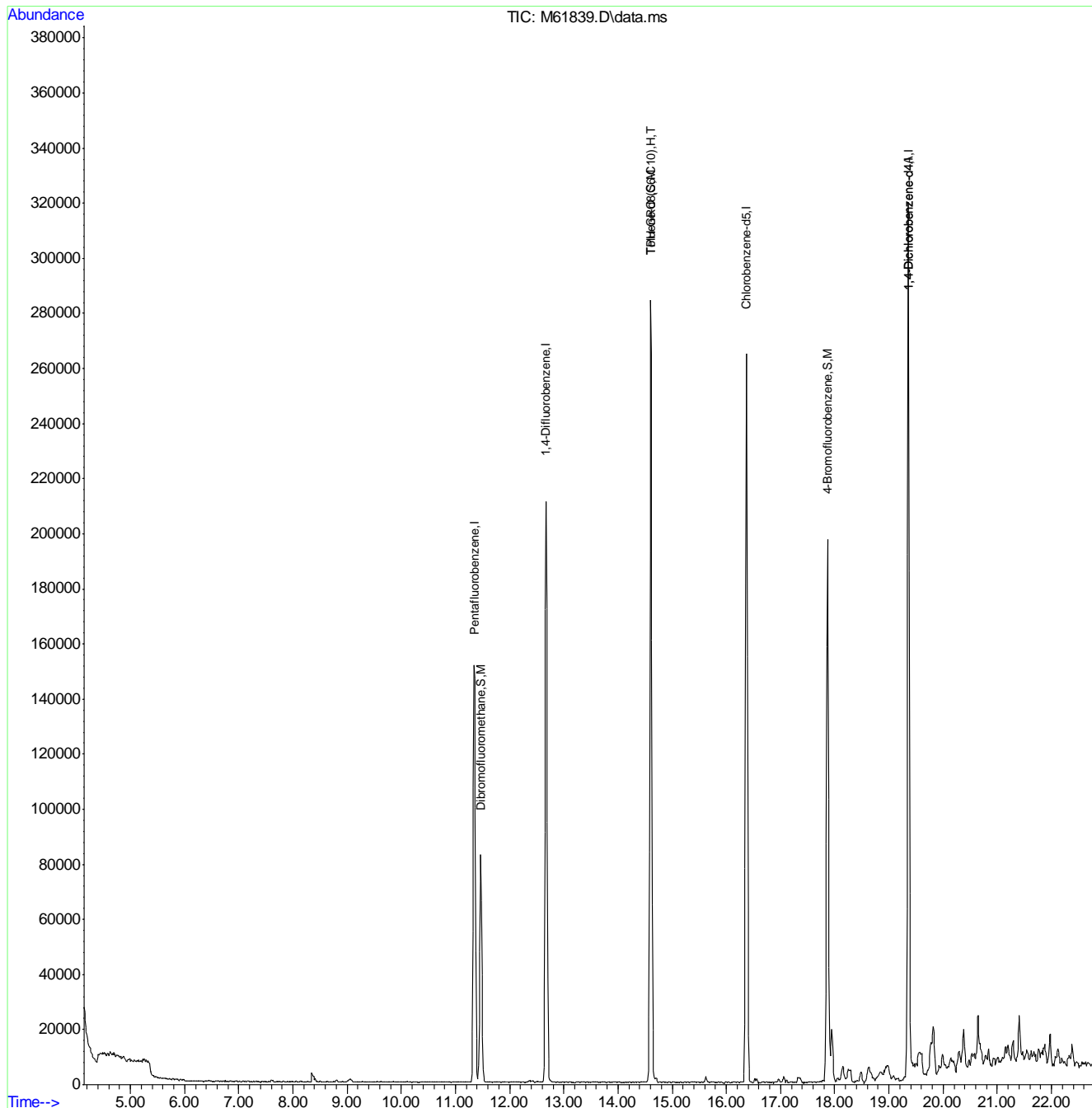
(#) = qualifier out of range (m) = manual integration (+) = signals summed

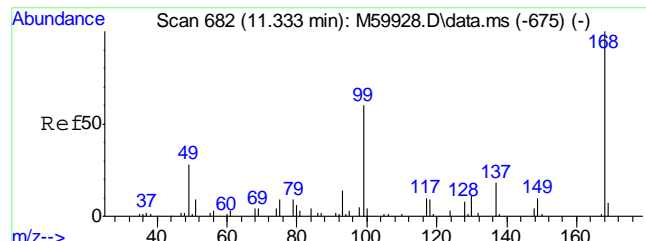
6.12
6

Quantitation Report (QT Reviewed)

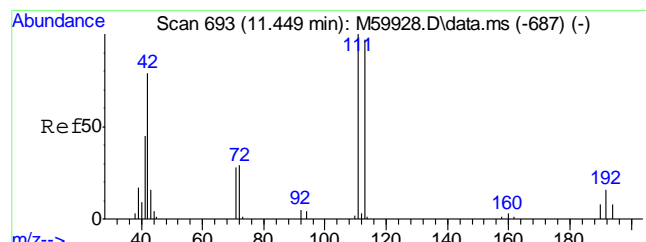
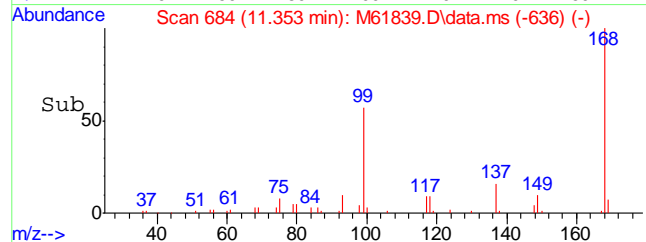
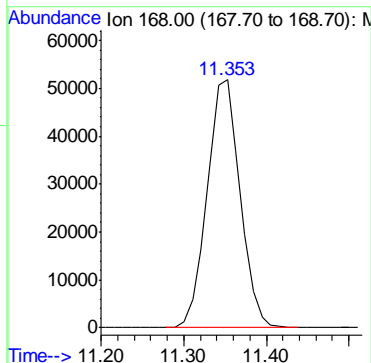
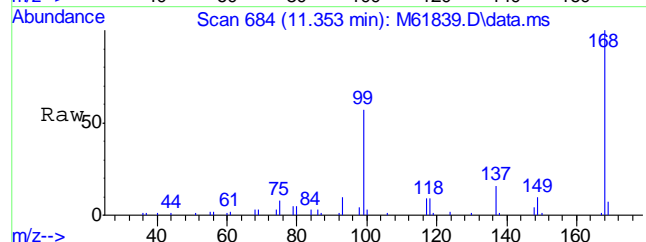
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61839.D
 Acq On : 13 Jul 2016 4:31 pm
 Operator : johannat
 Sample : C46446-1
 Misc : MS1912,VM1859,5.04,,,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 03 18:23:20 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

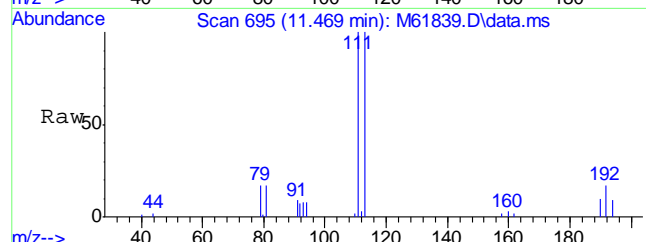




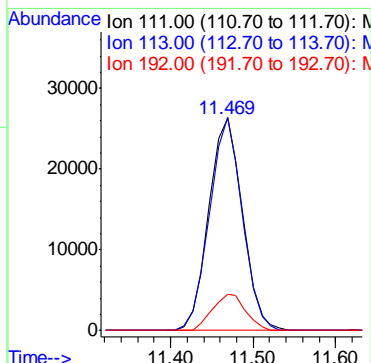
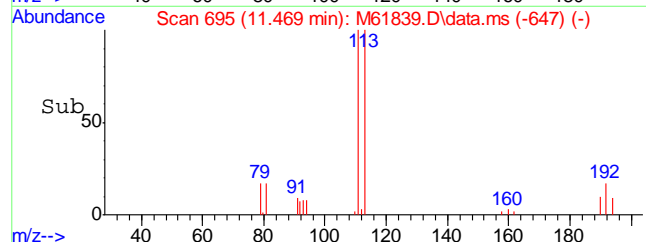
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.353 min Scan# 684
 Delta R.T. 0.009 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm
 Tgt Ion:168 Resp: 143919

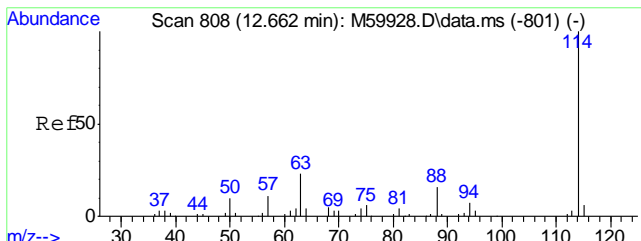


#36
 Dibromofluoromethane
 Concen: 20.46 ppb
 RT: 11.469 min Scan# 695
 Delta R.T. 0.009 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm
 Tgt Ion:111 Resp: 74676

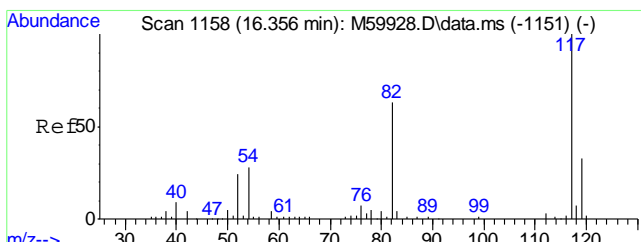
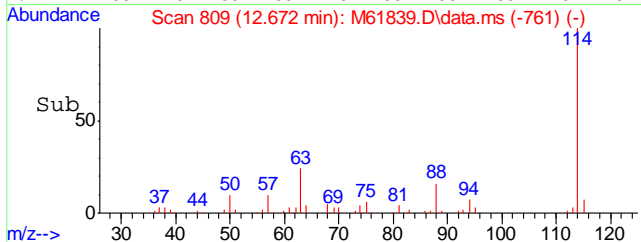
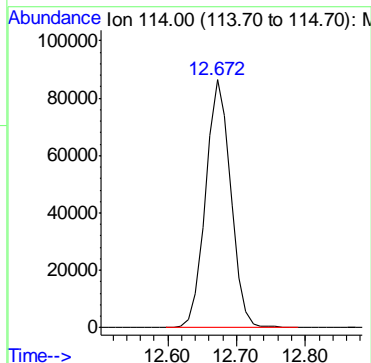
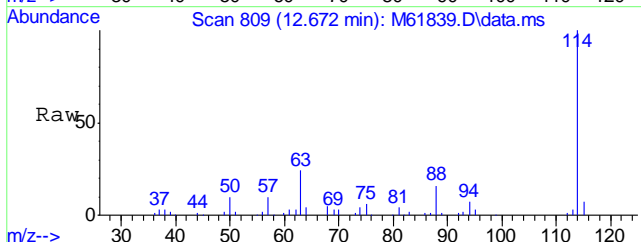


Ion	Ratio	Lower	Upper
111	100		
113	97.7	77.7	117.7
192	16.9	0.0	36.3

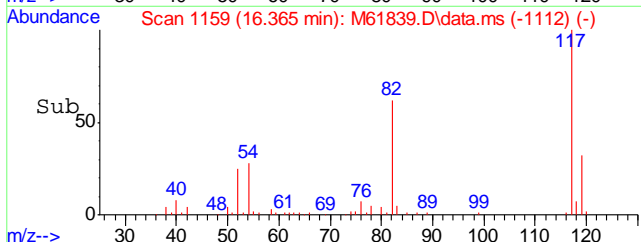
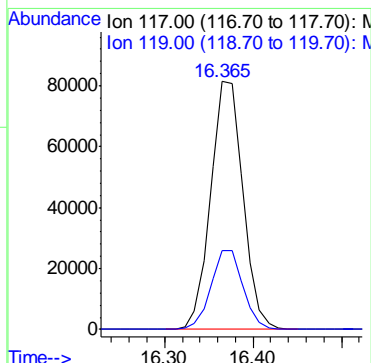
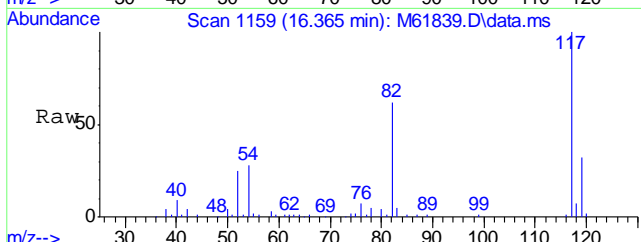


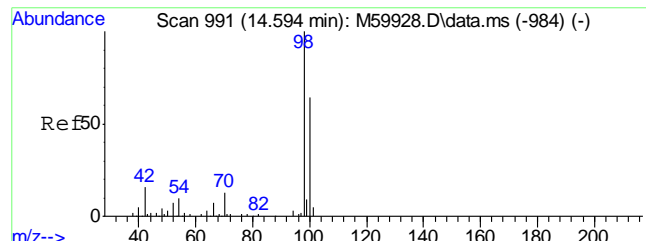


#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.672 min Scan# 809
Delta R.T. 0.009 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm
Tgt Ion:114 Resp: 219602



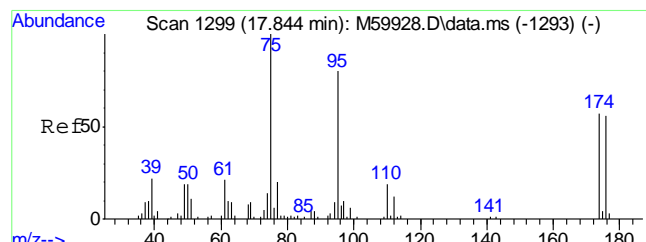
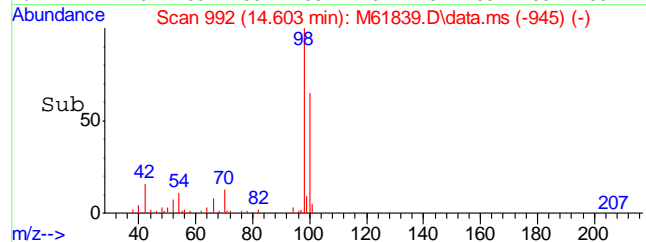
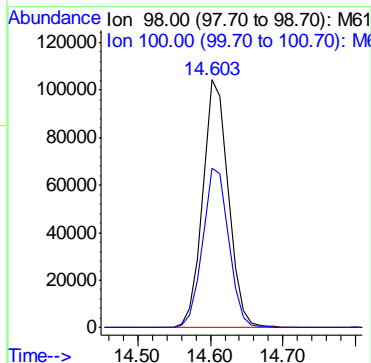
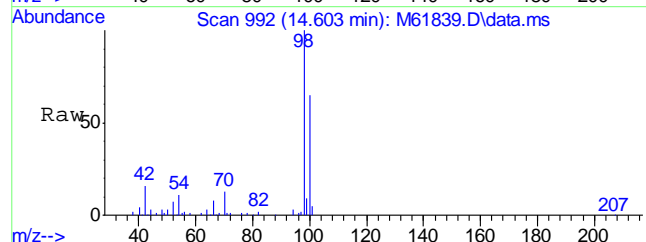
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.365 min Scan# 1159
Delta R.T. -0.001 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm
Tgt Ion:117 Resp: 207335
Ion Ratio Lower Upper
117 100
119 31.8 11.2 51.2





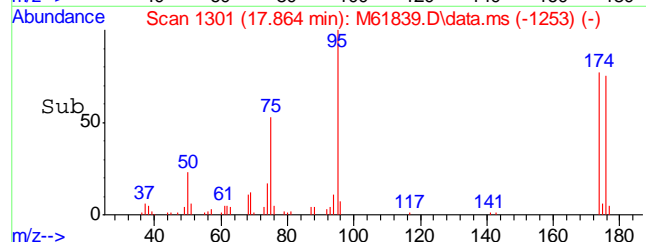
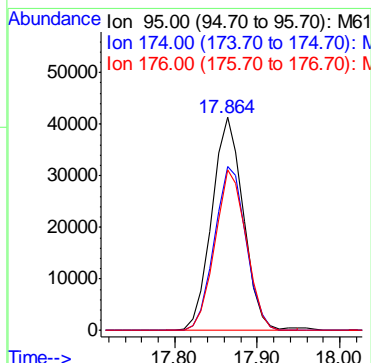
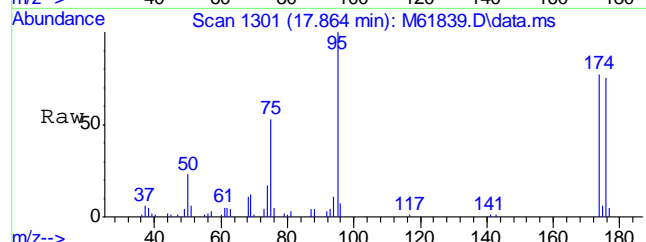
#56
Toluene-d8
Concen: 19.04 ppb
RT: 14.603 min Scan# 992
Delta R.T. -0.001 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm

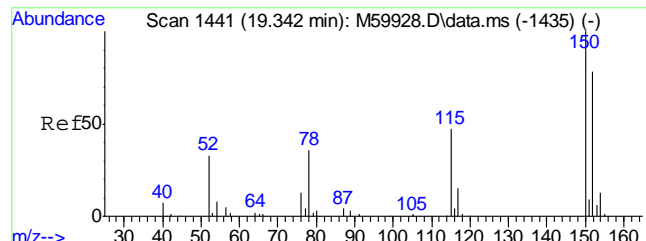
Tgt Ion	Resp	Lower	Upper
98	257614	100	
100	65.6	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.72 ppb
RT: 17.864 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm

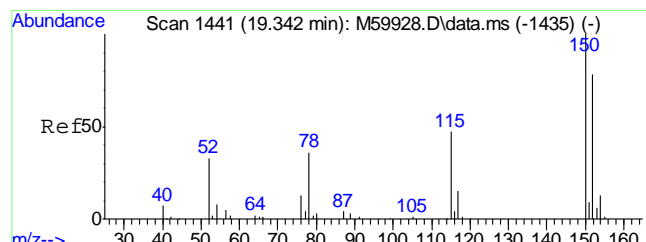
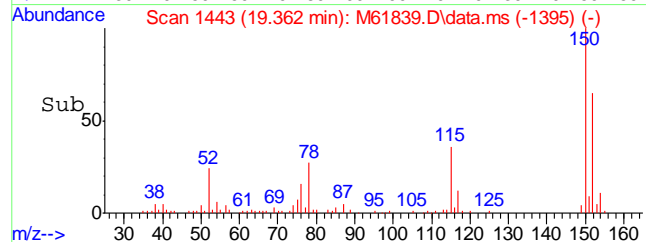
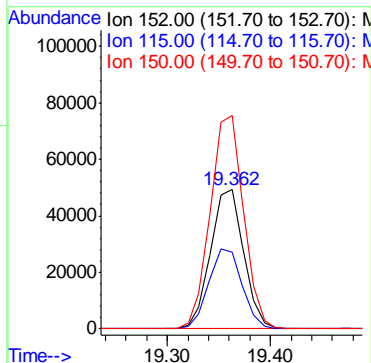
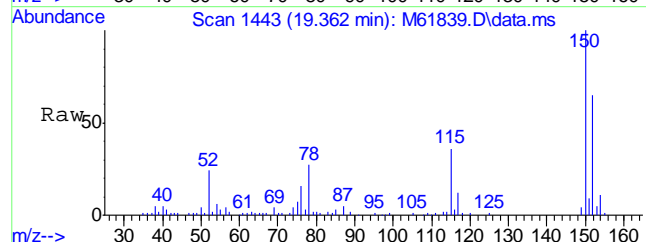
Tgt Ion	Resp	Lower	Upper
95	110253	100	
174	76.8	54.3	94.3
176	74.4	51.5	91.5





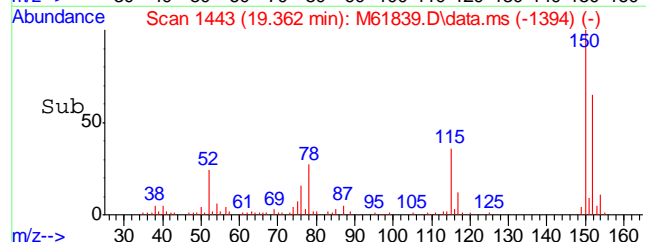
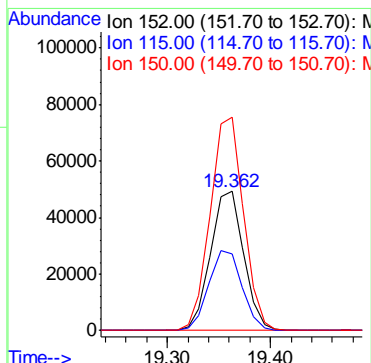
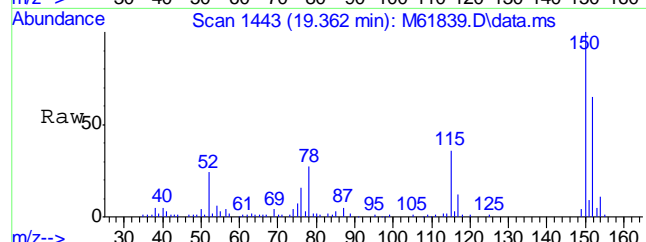
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.362 min Scan# 1443
 Delta R.T. 0.009 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm

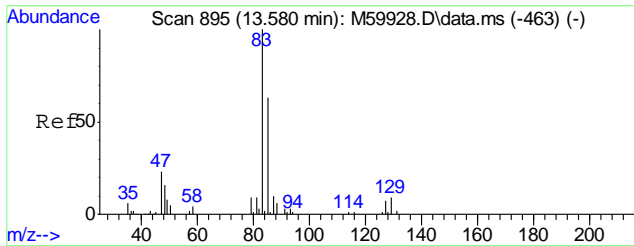
Tgt Ion	Resp	Lower	Upper
152	109708		
152	100		
115	57.9	40.9	80.9
150	154.3	178.6	218.6#



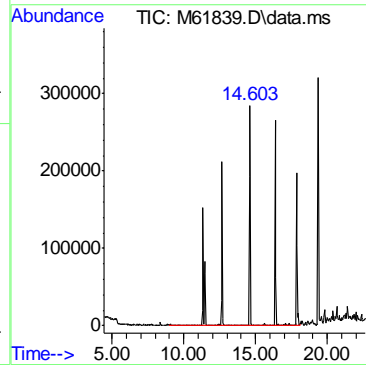
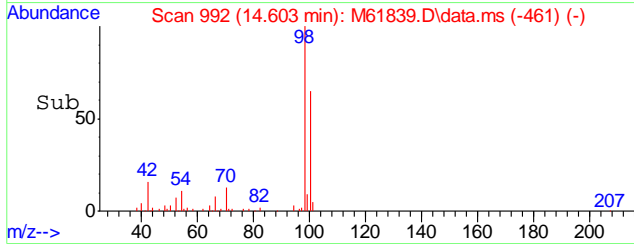
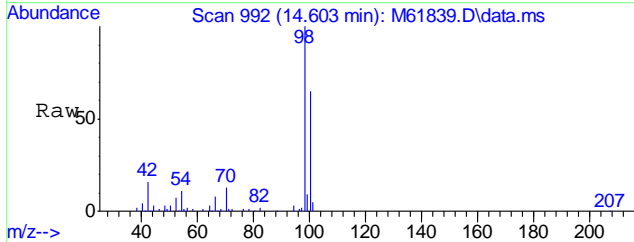
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.362 min Scan# 1443
 Delta R.T. 0.020 min
 Lab File: M61839.D
 Acq: 13 Jul 2016 4:31 pm

Tgt Ion	Resp	Lower	Upper
152	109708		
152	100		
115	57.9	37.3	77.3
150	154.3	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 8.32 ppb m
RT: 14.603 min Scan# 992
Delta R.T. 1.053 min
Lab File: M61839.D
Acq: 13 Jul 2016 4:31 pm
Tgt Ion:TIC Resp: 3405976



6.12
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61840.D
Acq On : 13 Jul 2016 5:02 pm
Operator : johannat
Sample : C46446-2
Misc : MS1912,VM1859,5.17,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 18:23:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.354	168	143381	20.00	ppb	0.01
40) 1,4-Difluorobenzene	12.673	114	217868	20.00	ppb	0.01
55) Chlorobenzene-d5	16.367	117	209473	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.353	152	113339	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.353	152	113339	20.00	ppb	0.01

System Monitoring Compounds						
36) Dibromofluoromethane	11.470	111	72739	20.01	ppb	0.01
Spiked Amount	20.000	Range 80 - 136	Recovery =	100.05%		
56) Toluene-d8	14.604	98	258693	18.92	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.60%		
74) 4-Bromofluorobenzene	17.865	95	108899	20.26	ppb	0.01
Spiked Amount	20.000	Range 79 - 115	Recovery =	101.30%		

Target Compounds Qvalue

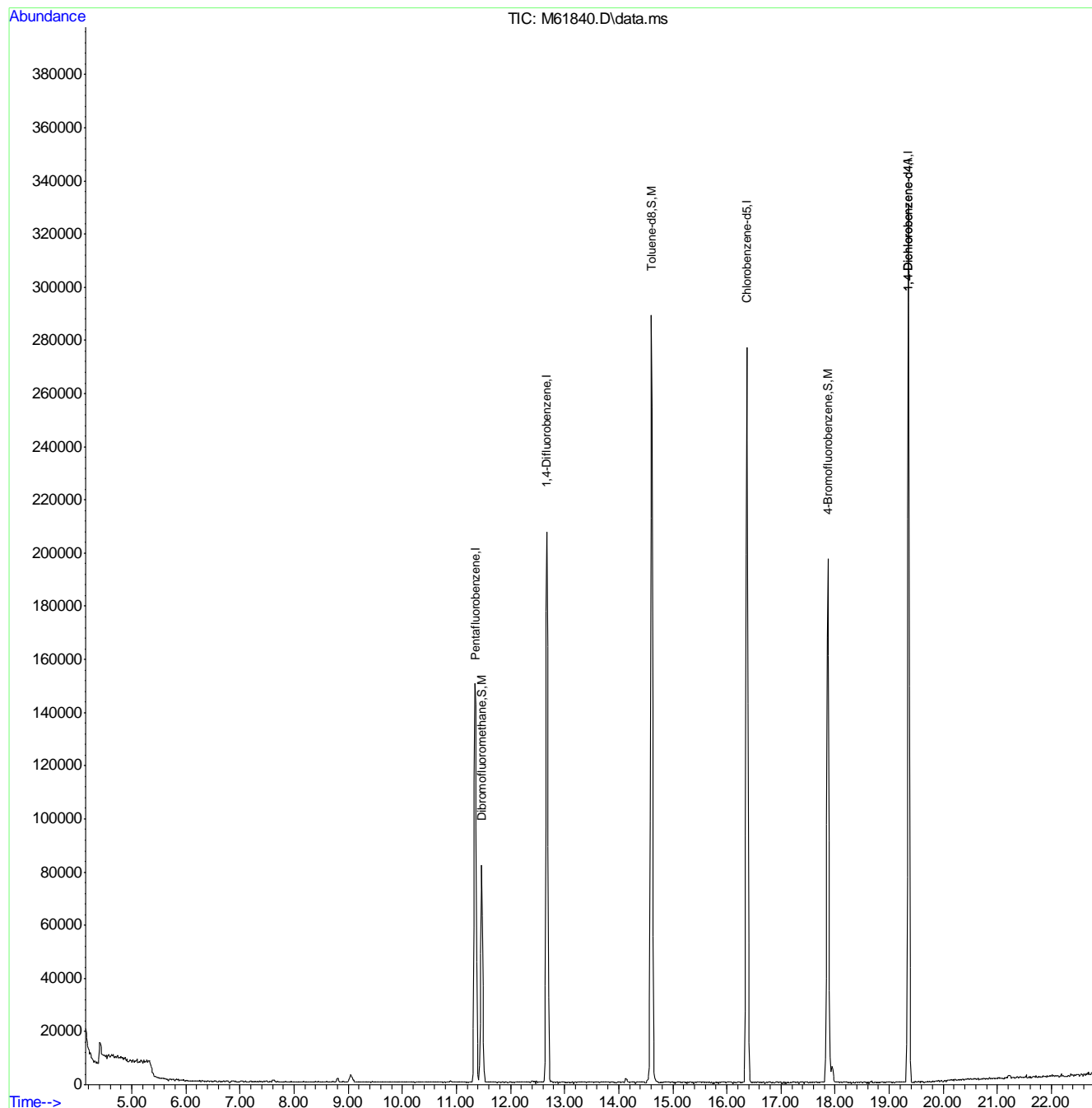
(#) = qualifier out of range (m) = manual integration (+) = signals summed

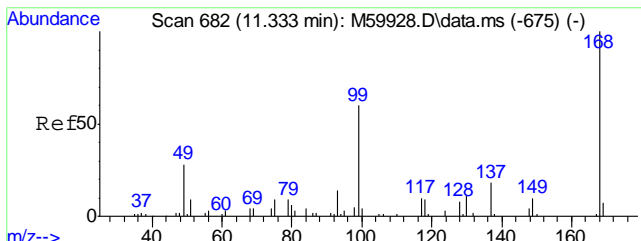
6.1.3
6

Quantitation Report (QT Reviewed)

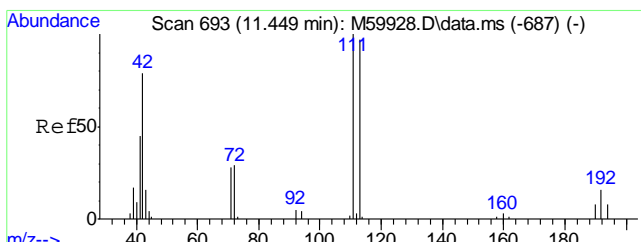
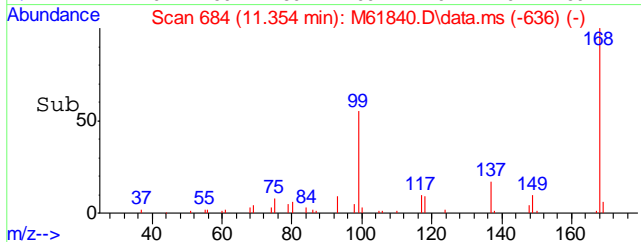
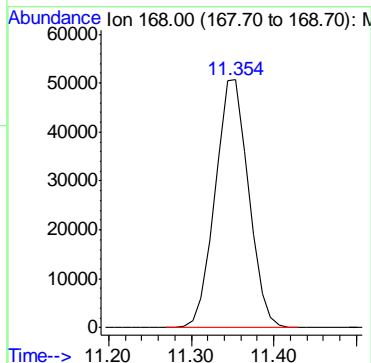
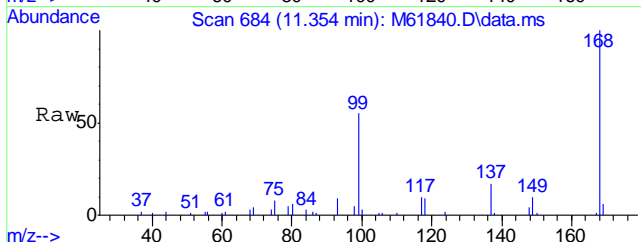
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61840.D
Acq On : 13 Jul 2016 5:02 pm
Operator : johannat
Sample : C46446-2
Misc : MS1912,VM1859,5.17,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 18:23:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

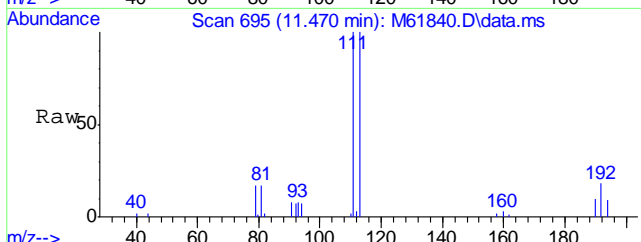




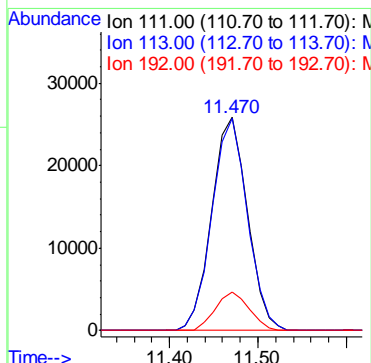
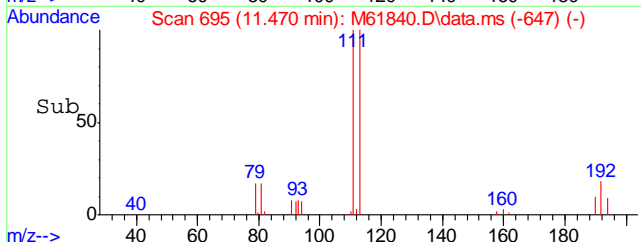
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.354 min Scan# 684
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:168 Resp: 143381

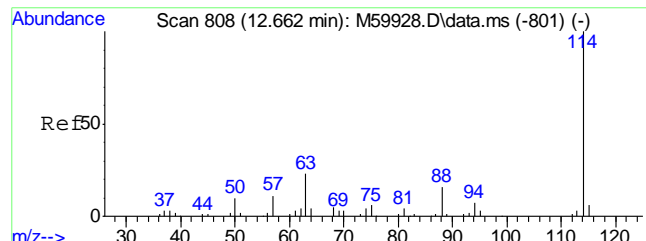


#36
 Dibromofluoromethane
 Concen: 20.01 ppb
 RT: 11.470 min Scan# 695
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:111 Resp: 72739

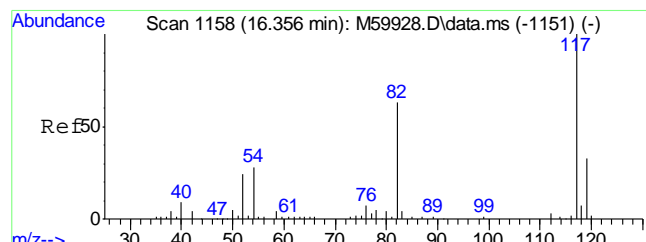
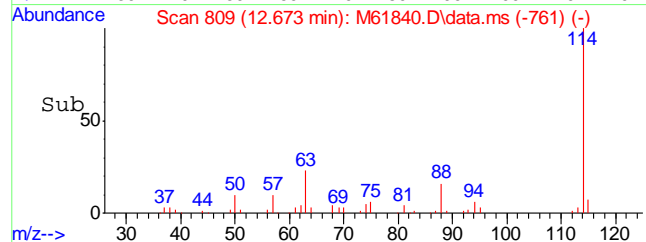
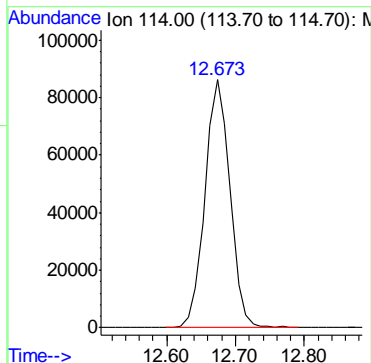
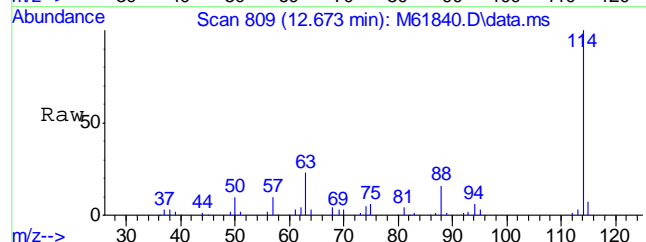


Ion	Ratio	Lower	Upper
111	100		
113	98.3	77.7	117.7
192	17.1	0.0	36.3

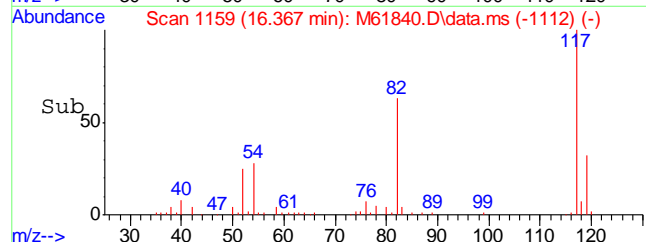
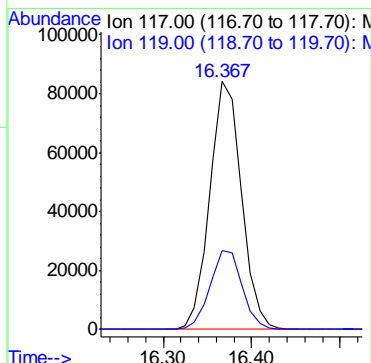
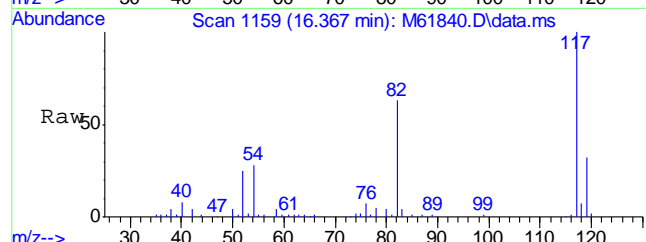


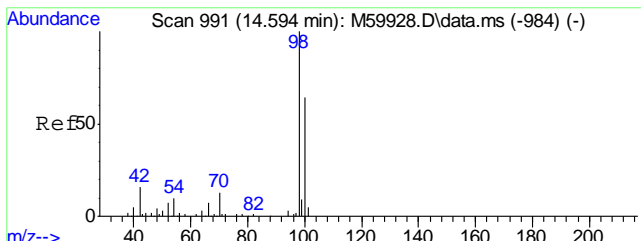


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.673 min Scan# 809
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:114 Resp: 217868



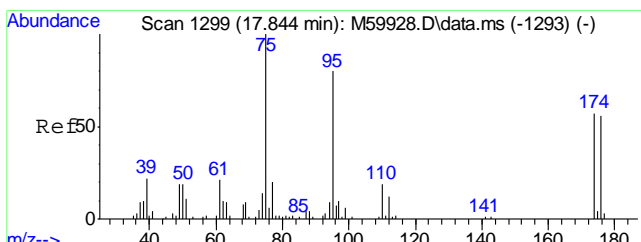
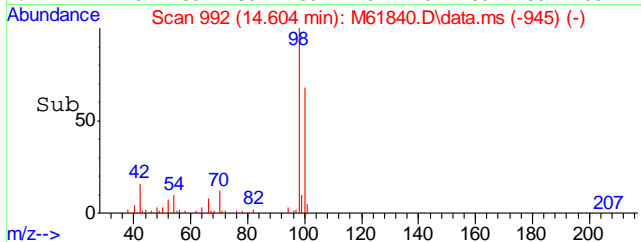
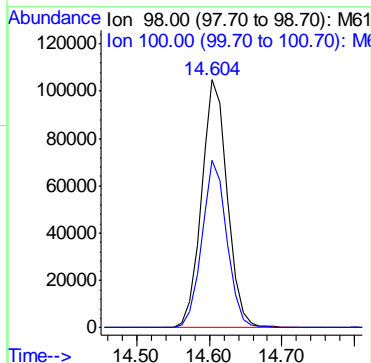
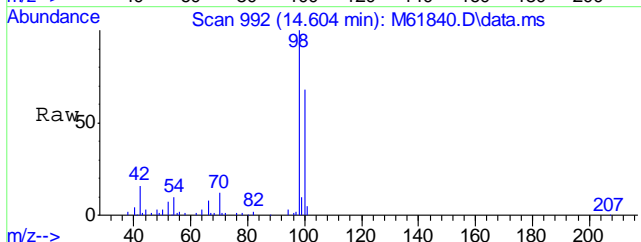
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.367 min Scan# 1159
 Delta R.T. 0.000 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:117 Resp: 209473
 Ion Ratio Lower Upper
 117 100
 119 32.4 11.2 51.2





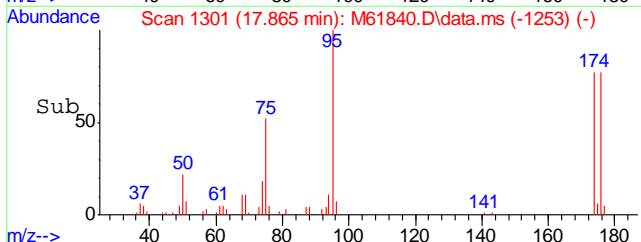
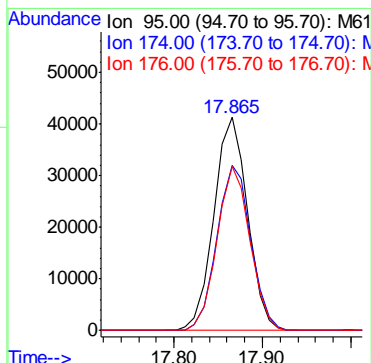
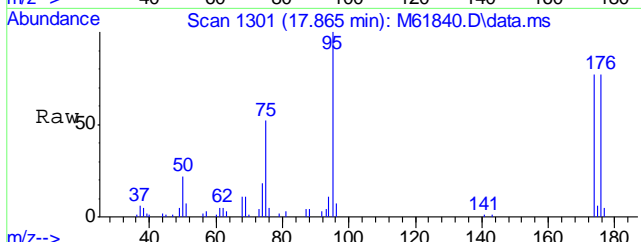
#56
Toluene-d8
Concen: 18.92 ppb
RT: 14.604 min Scan# 992
Delta R.T. 0.000 min
Lab File: M61840.D
Acq: 13 Jul 2016 5:02 pm

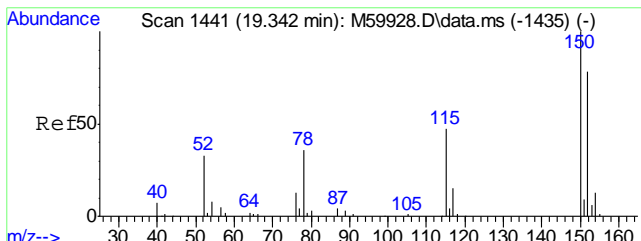
Tgt Ion	Resp	Lower	Upper
98	258693		
98	100		
100	65.5	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.26 ppb
RT: 17.865 min Scan# 1301
Delta R.T. 0.011 min
Lab File: M61840.D
Acq: 13 Jul 2016 5:02 pm

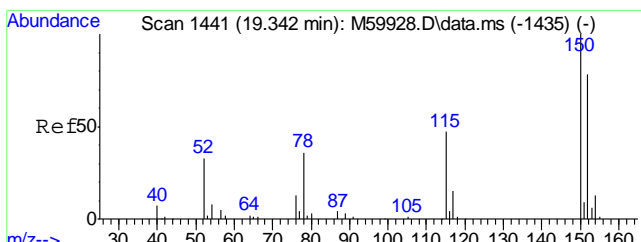
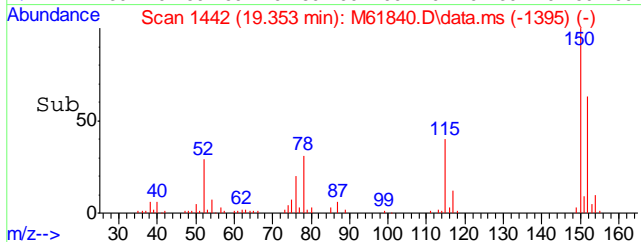
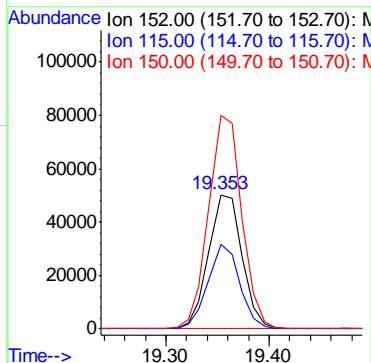
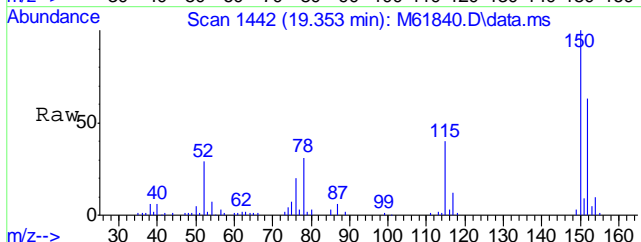
Tgt Ion	Resp	Lower	Upper
95	108899		
95	100		
174	77.9	54.3	94.3
176	75.3	51.5	91.5





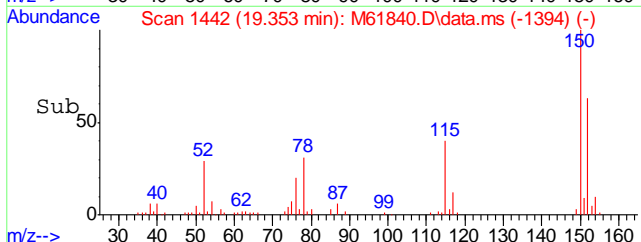
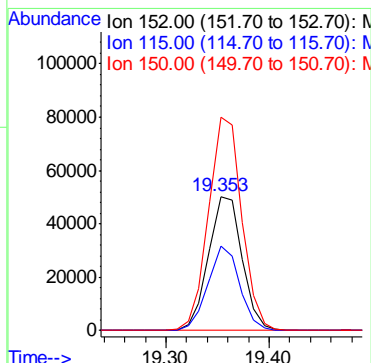
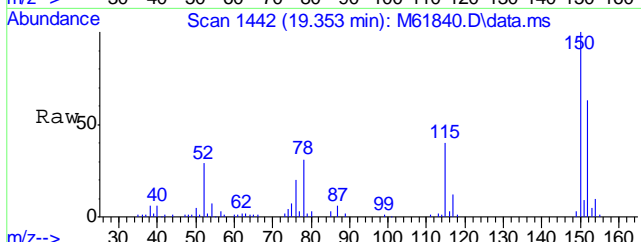
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.353 min Scan# 1442
 Delta R.T. 0.000 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm

Tgt Ion	Resp	Lower	Upper
152	113339		
152	100		
115	59.7	40.9	80.9
150	157.5	178.6	218.6#



#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.353 min Scan# 1442
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm

Tgt Ion	Resp	Lower	Upper
152	113339		
152	100		
115	59.7	37.3	77.3
150	157.5	176.0	216.0#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61840.D
Acq On : 13 Jul 2016 5:02 pm
Operator : johannat
Sample : C46446-2
Misc : MS1912,VM1859,5.17,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 18:23:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.354	168	143381	20.00	ppb	0.01
40) 1,4-Difluorobenzene	12.673	114	217868	20.00	ppb	0.01
55) Chlorobenzene-d5	16.367	117	209473	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.353	152	113339	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.353	152	113339	20.00	ppb	0.01

System Monitoring Compounds						
36) Dibromofluoromethane	11.470	111	72739	20.01	ppb	0.01
Spiked Amount	20.000	Range 80 - 136	Recovery =	100.05%		
56) Toluene-d8	14.604	98	258693	18.92	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.60%		
74) 4-Bromofluorobenzene	17.865	95	108899	20.26	ppb	0.01
Spiked Amount	20.000	Range 79 - 115	Recovery =	101.30%		

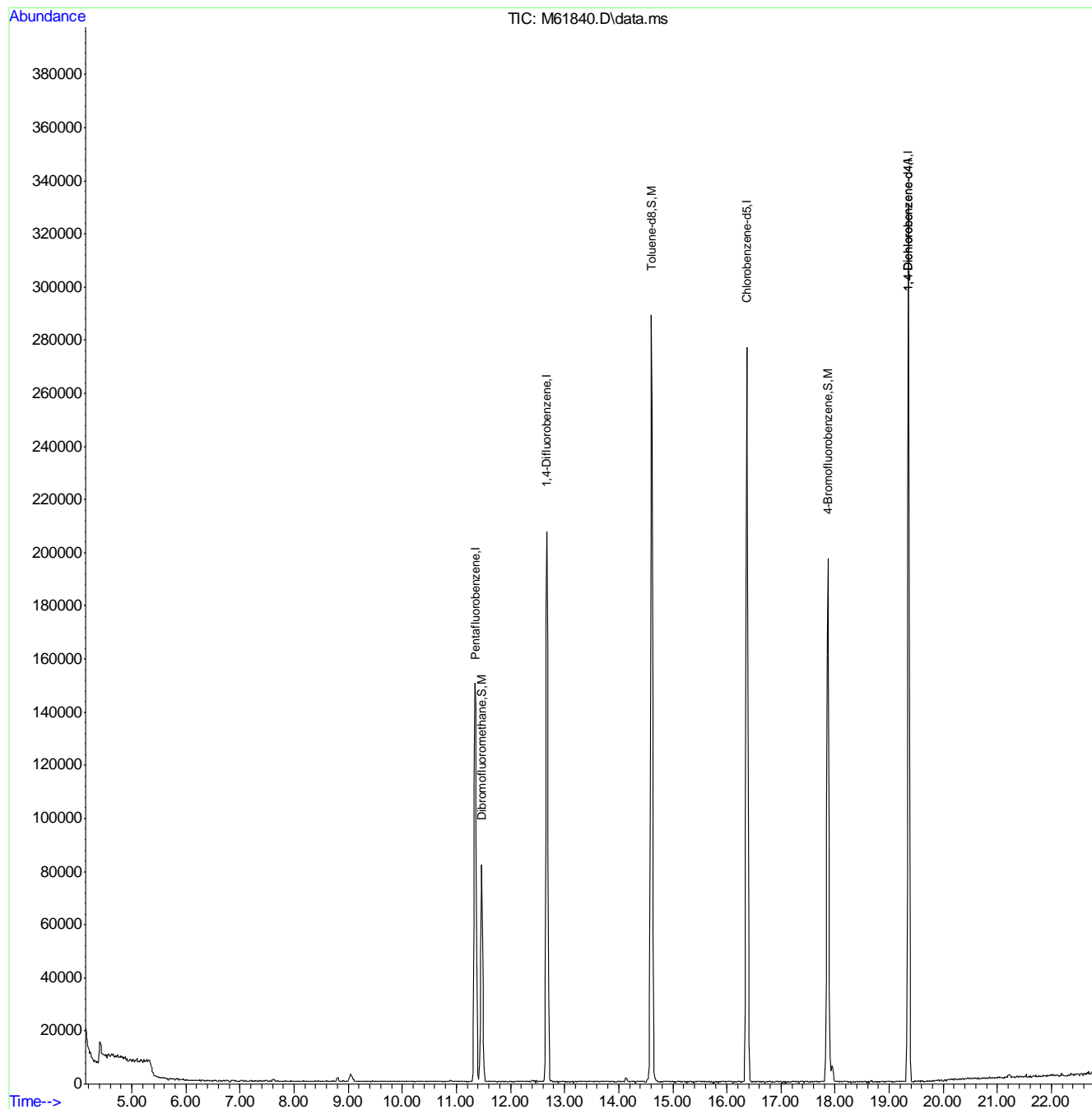
Target Compounds Qvalue

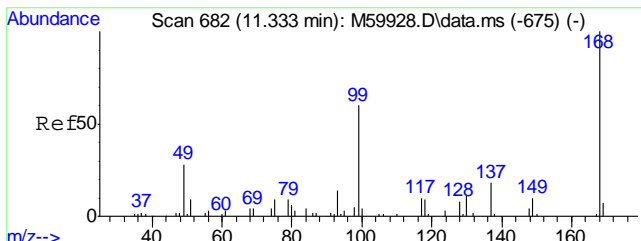
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

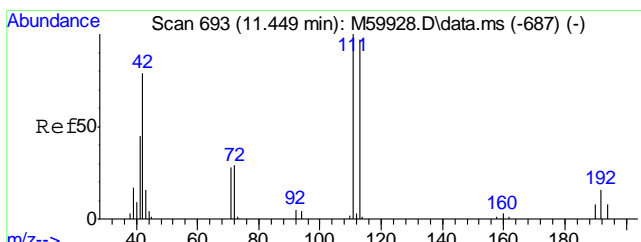
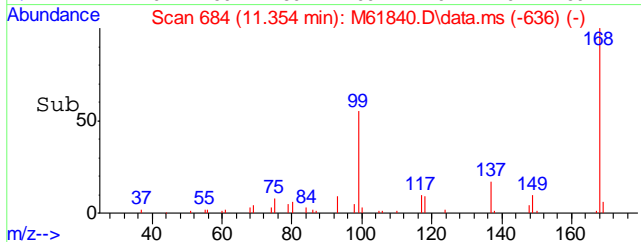
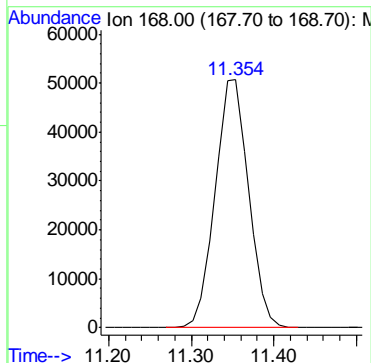
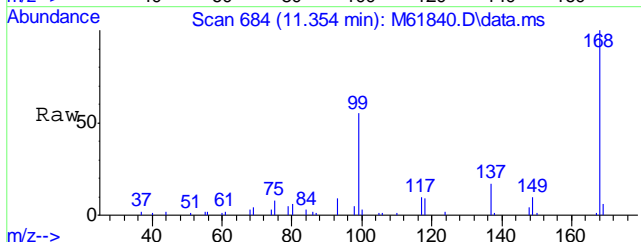
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61840.D
Acq On : 13 Jul 2016 5:02 pm
Operator : johannat
Sample : C46446-2
Misc : MS1912,VM1859,5.17,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 18:23:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

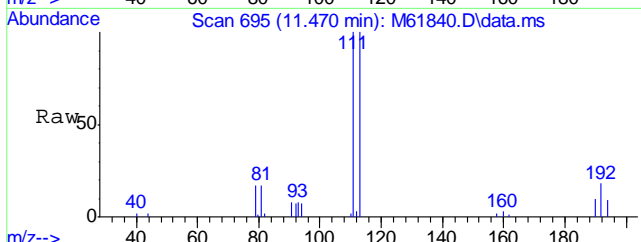




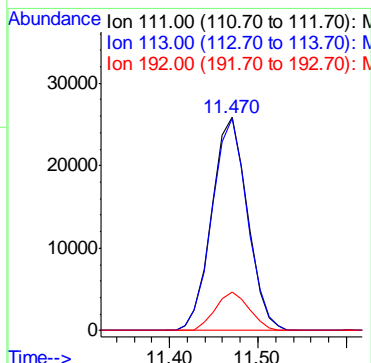
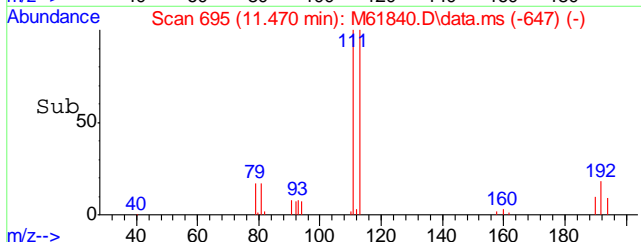
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.354 min Scan# 684
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:168 Resp: 143381

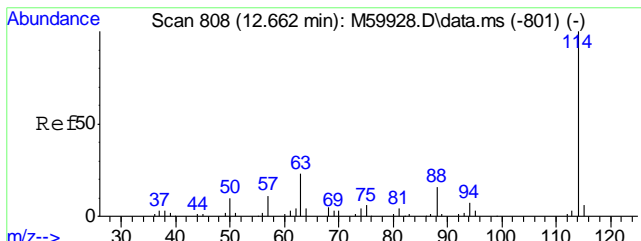


#36
 Dibromofluoromethane
 Concen: 20.01 ppb
 RT: 11.470 min Scan# 695
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:111 Resp: 72739

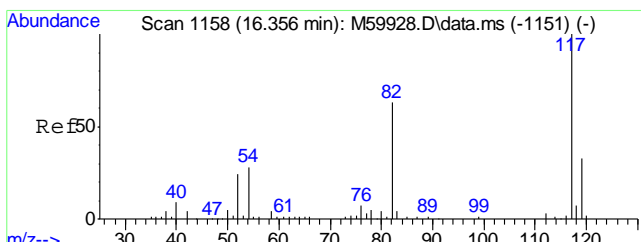
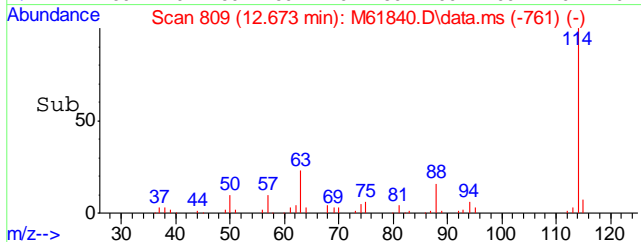
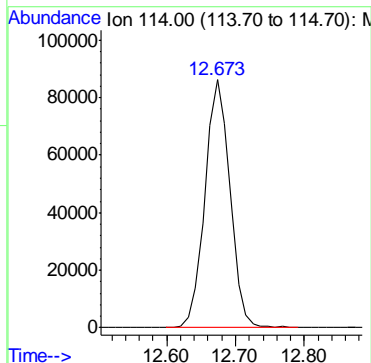
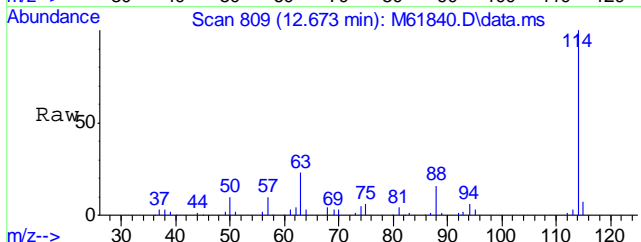


Ion	Ratio	Lower	Upper
111	100		
113	98.3	77.7	117.7
192	17.1	0.0	36.3

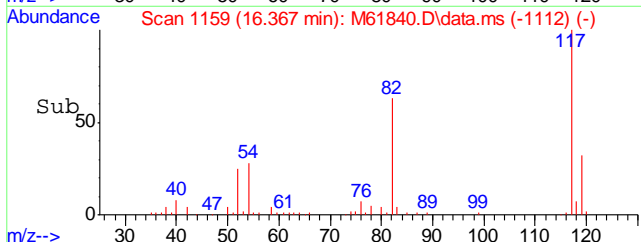
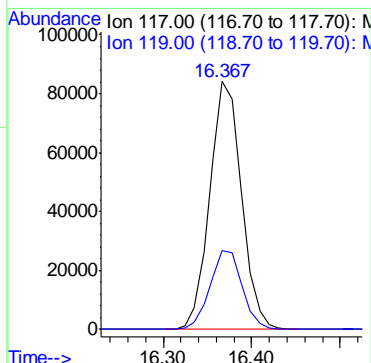
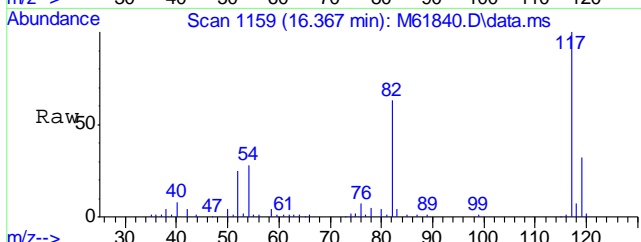


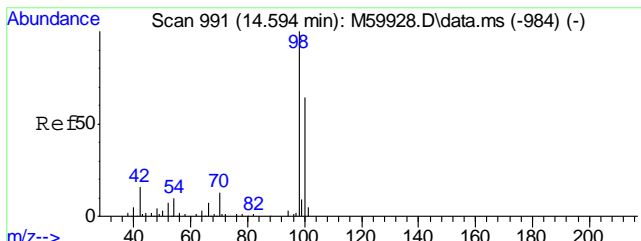


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.673 min Scan# 809
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:114 Resp: 217868



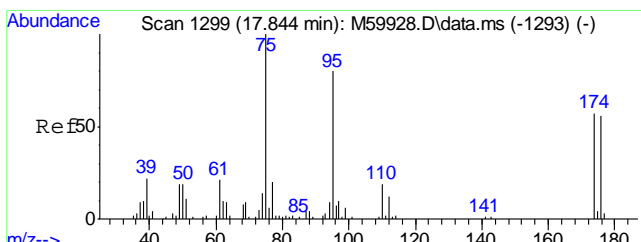
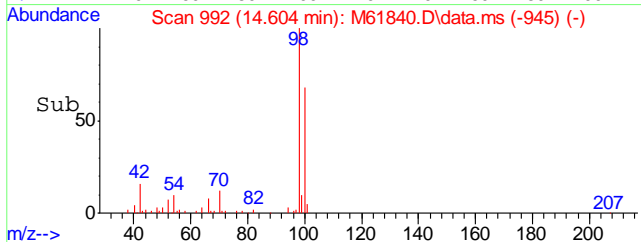
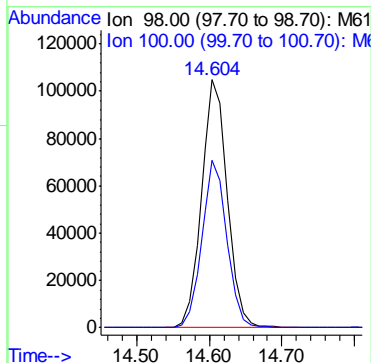
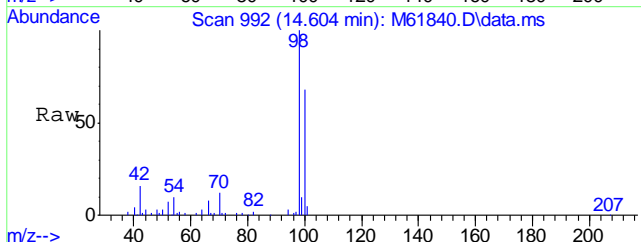
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.367 min Scan# 1159
 Delta R.T. 0.000 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm
 Tgt Ion:117 Resp: 209473
 Ion Ratio Lower Upper
 117 100
 119 32.4 11.2 51.2





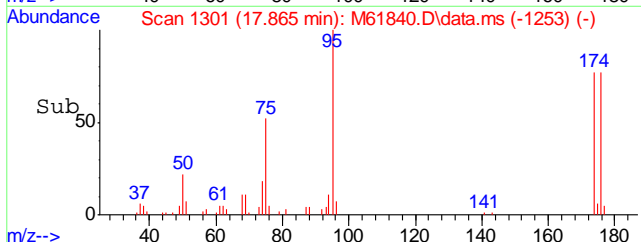
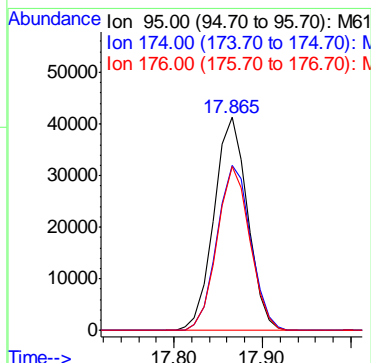
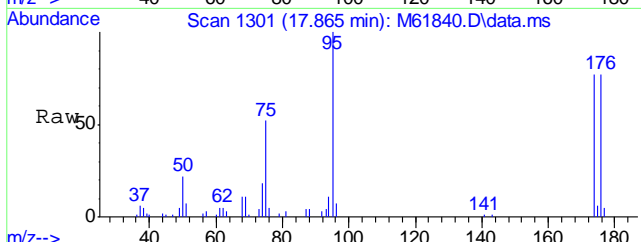
#56
Toluene-d8
Concen: 18.92 ppb
RT: 14.604 min Scan# 992
Delta R.T. 0.000 min
Lab File: M61840.D
Acq: 13 Jul 2016 5:02 pm

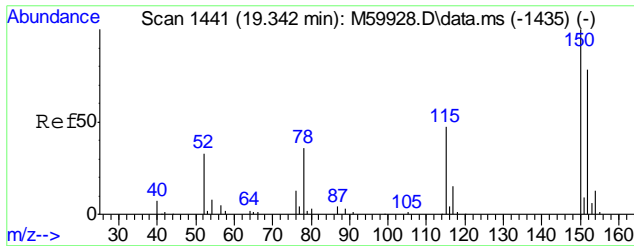
Tgt Ion	Resp	Lower	Upper
98	258693	100	
100	65.5	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.26 ppb
RT: 17.865 min Scan# 1301
Delta R.T. 0.011 min
Lab File: M61840.D
Acq: 13 Jul 2016 5:02 pm

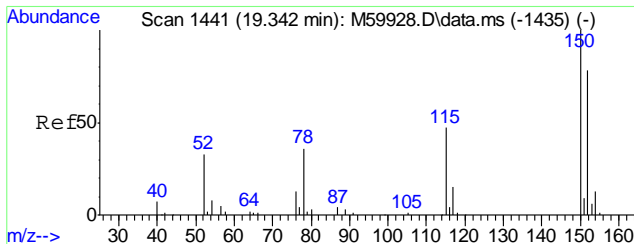
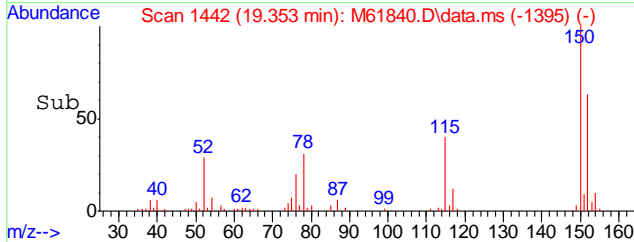
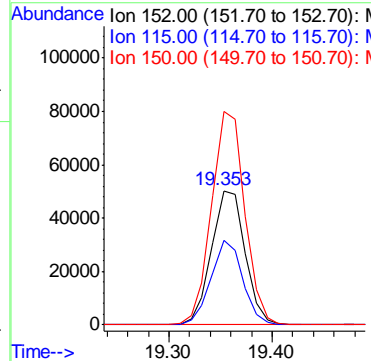
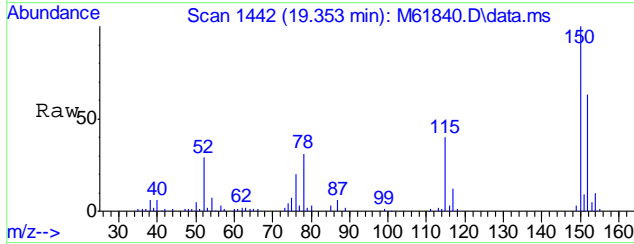
Tgt Ion	Resp	Lower	Upper
95	108899	100	
174	77.9	54.3	94.3
176	75.3	51.5	91.5





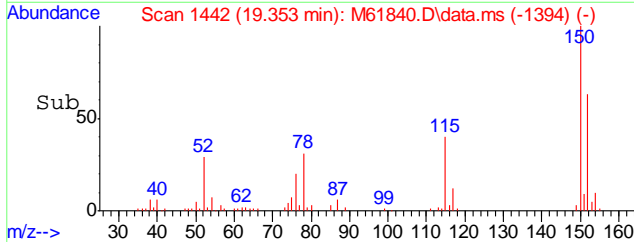
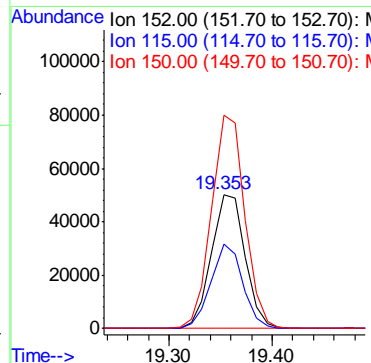
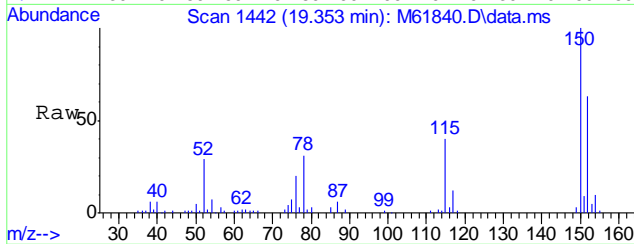
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.353 min Scan# 1442
 Delta R.T. 0.000 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm

Tgt Ion	Resp	Lower	Upper
152	113339		
152	100		
115	59.7	40.9	80.9
150	157.5	178.6	218.6#



#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.353 min Scan# 1442
 Delta R.T. 0.011 min
 Lab File: M61840.D
 Acq: 13 Jul 2016 5:02 pm

Tgt Ion	Resp	Lower	Upper
152	113339		
152	100		
115	59.7	37.3	77.3
150	157.5	176.0	216.0#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61838.D
Acq On : 13 Jul 2016 4:02 pm
Operator : johannat
Sample : C46446-3
Misc : MS1912,VM1859,5.06,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:22:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.340	168	146892	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.670	114	220667	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	213253	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	117733	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	117733	20.00	ppb	0.02

System Monitoring Compounds						
36) Dibromofluoromethane	11.467	111	74206	19.92	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	99.60%		
56) Toluene-d8	14.601	98	262925	18.89	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.45%		
74) 4-Bromofluorobenzene	17.862	95	112629	20.58	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	102.90%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
100) TPH-GRO (C6-C10)	14.601	TIC	3410488m	Below Cal		

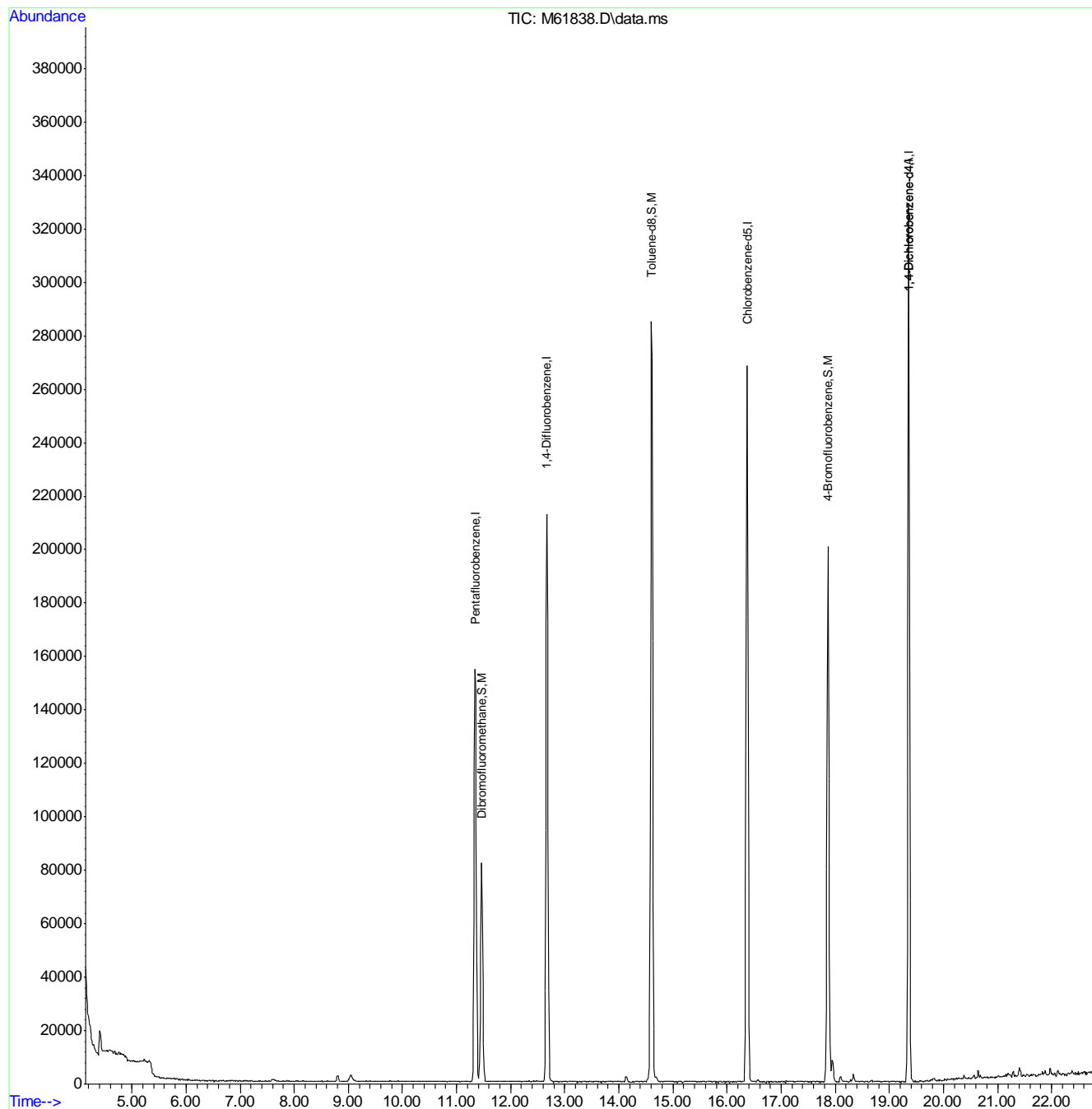
(#) = qualifier out of range (m) = manual integration (+) = signals summed

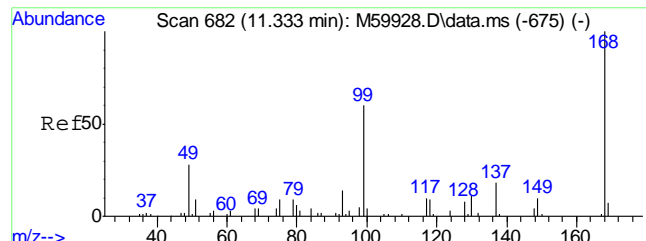
6.1.5
6

Quantitation Report (QT Reviewed)

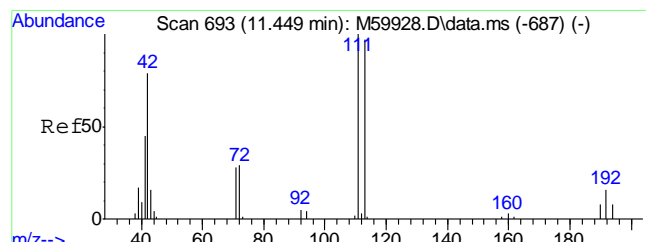
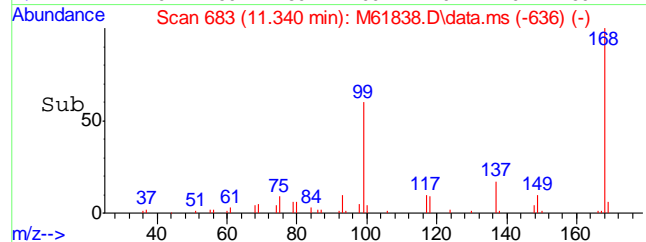
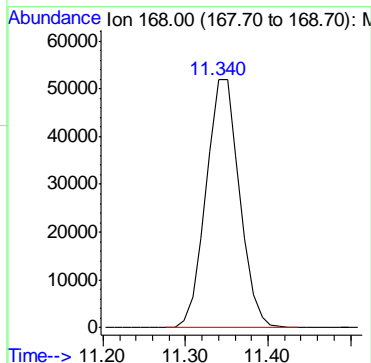
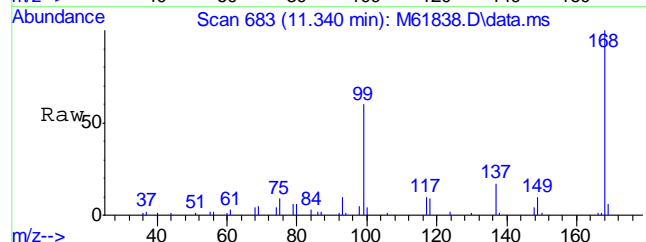
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61838.D
Acq On : 13 Jul 2016 4:02 pm
Operator : johannat
Sample : C46446-3
Misc : MS1912,VM1859,5.06,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:22:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

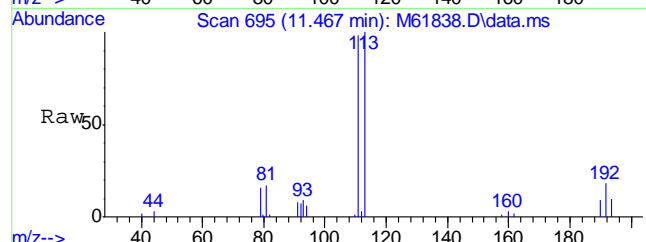




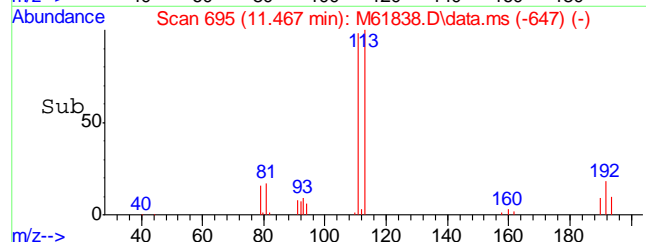
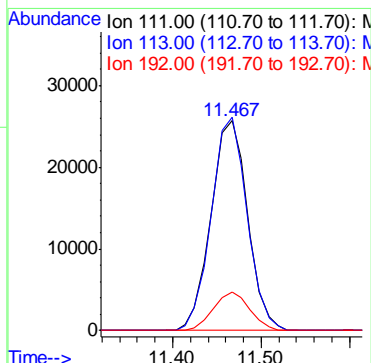
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:168 Resp: 146892

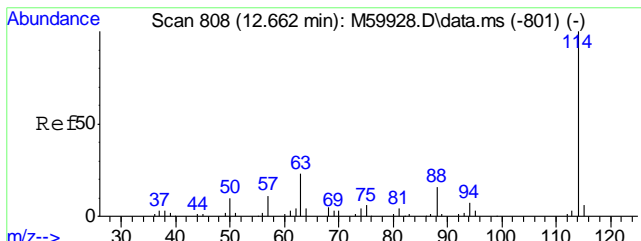


#36
 Dibromofluoromethane
 Concen: 19.92 ppb
 RT: 11.467 min Scan# 695
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:111 Resp: 74206

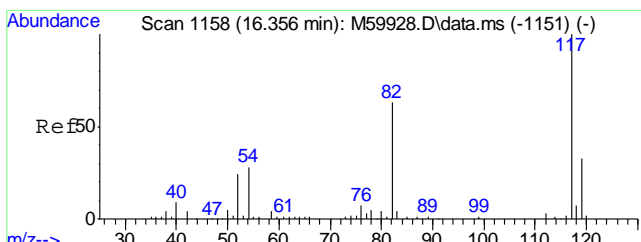
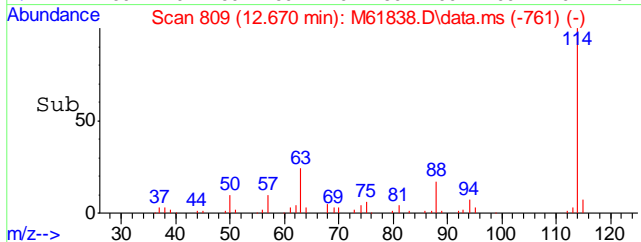
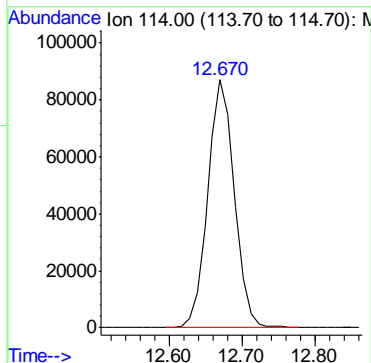
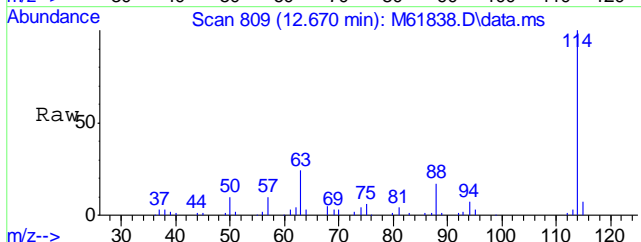


Ion	Ratio	Lower	Upper
111	100		
113	99.2	77.7	117.7
192	18.1	0.0	36.3

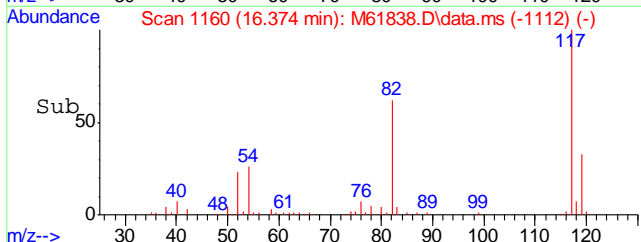
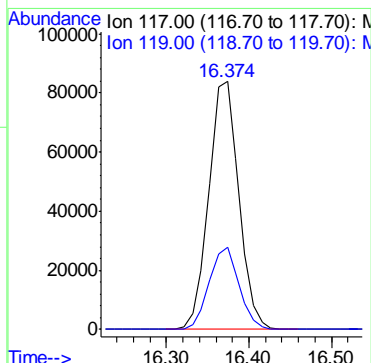
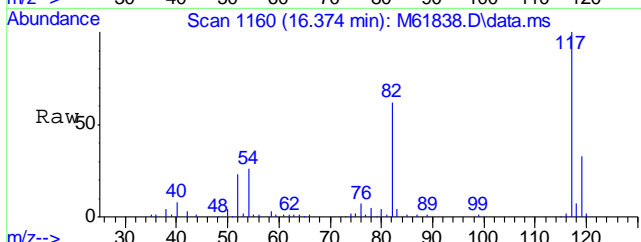


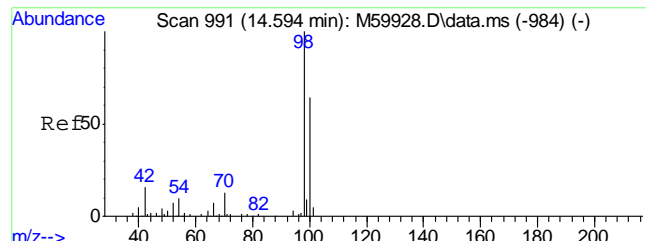


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.670 min Scan# 809
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:114 Resp: 220667



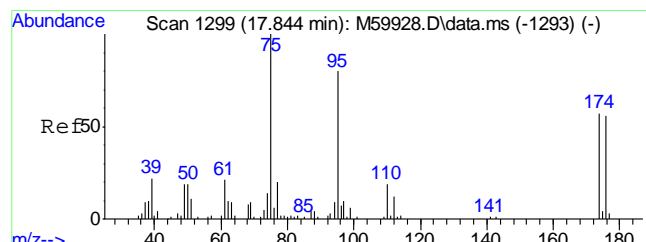
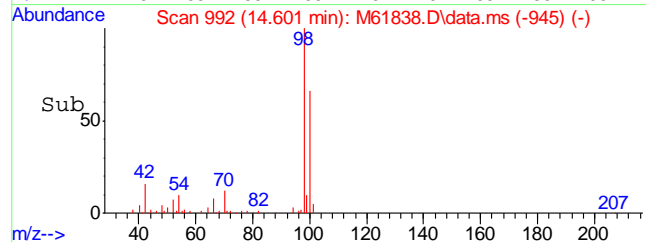
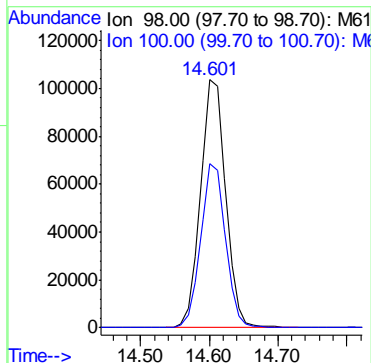
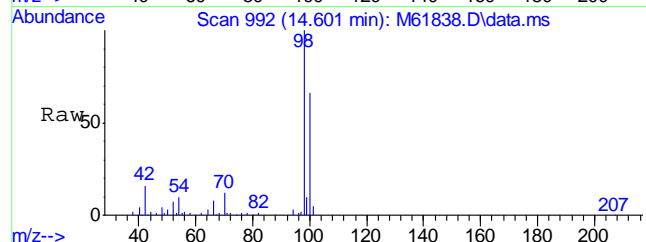
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.374 min Scan# 1160
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:117 Resp: 213253
 Ion Ratio Lower Upper
 117 100
 119 32.6 11.2 51.2





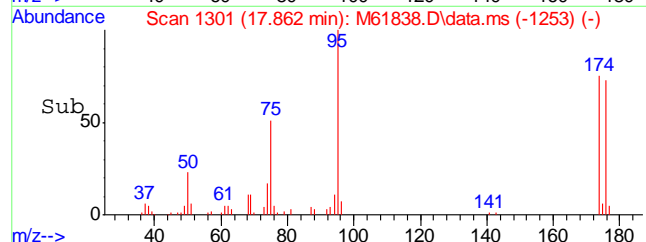
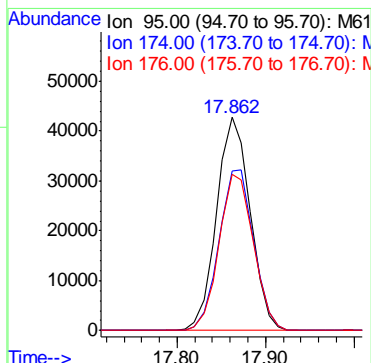
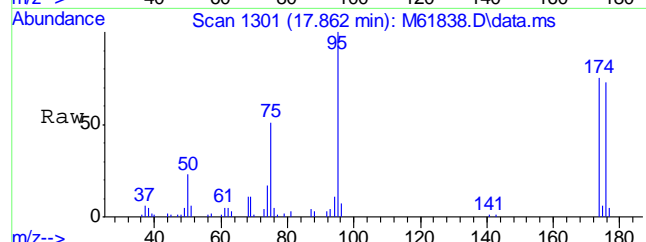
#56
Toluene-d8
Concen: 18.89 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61838.D
Acq: 13 Jul 2016 4:02 pm

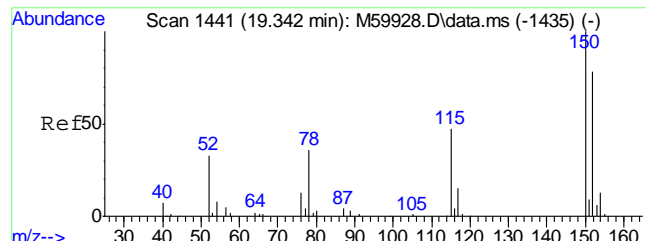
Tgt Ion	Resp	Lower	Upper
98	262925		
98	100		
100	65.1	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.58 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61838.D
Acq: 13 Jul 2016 4:02 pm

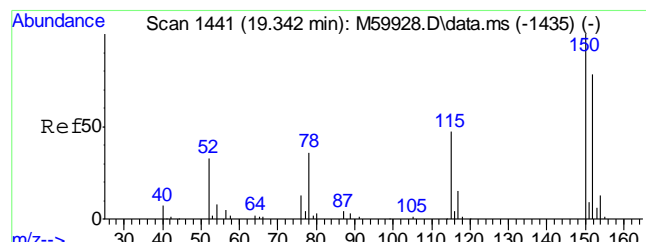
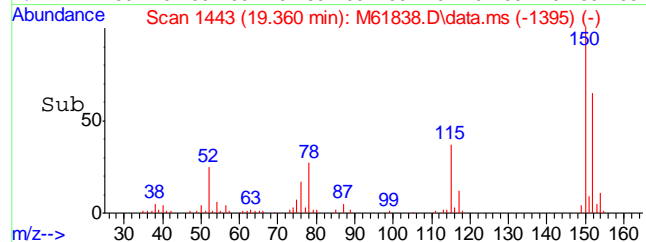
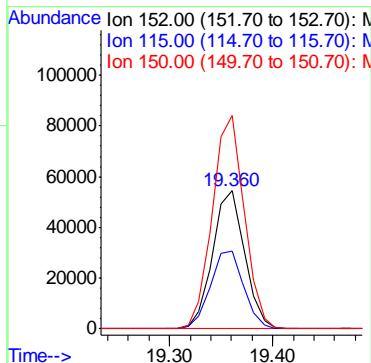
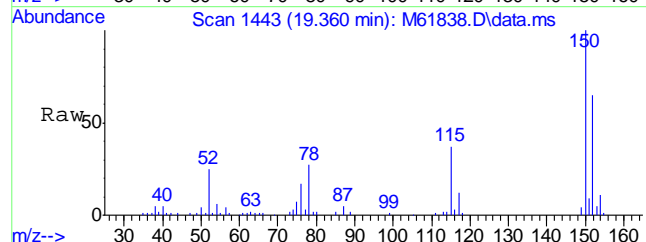
Tgt Ion	Resp	Lower	Upper
95	112629		
95	100		
174	77.8	54.3	94.3
176	75.0	51.5	91.5





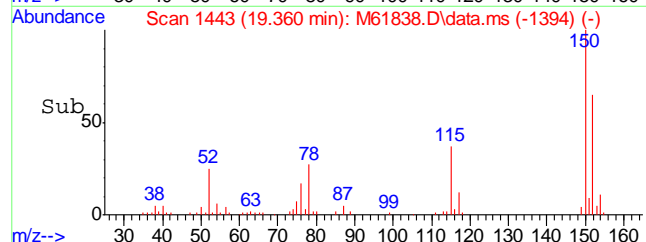
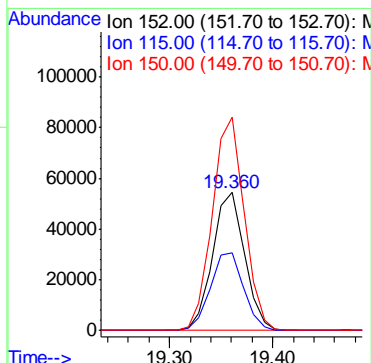
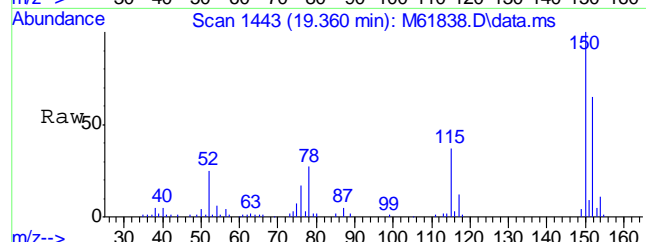
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm

Tgt Ion	Resp	Lower	Upper
152	117733		
152	100		
115	58.3	40.9	80.9
150	153.7	178.6	218.6#



#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm

Tgt Ion	Resp	Lower	Upper
152	117733		
152	100		
115	58.3	37.3	77.3
150	153.7	176.0	216.0#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61838.D
Acq On : 13 Jul 2016 4:02 pm
Operator : johannat
Sample : C46446-3
Misc : MS1912,VM1859,5.06,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:22:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, and 1,4-Dichlorobenzene-d4A.

System Monitoring Compounds table with 7 columns: Compound Name, Spiked Amount, Range, QIon, Response, Conc, Units, Dev(Min). Rows include Dibromofluoromethane and Toluene-d8.

Target Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Qvalue. Row includes TPH-GRO (C6-C10).

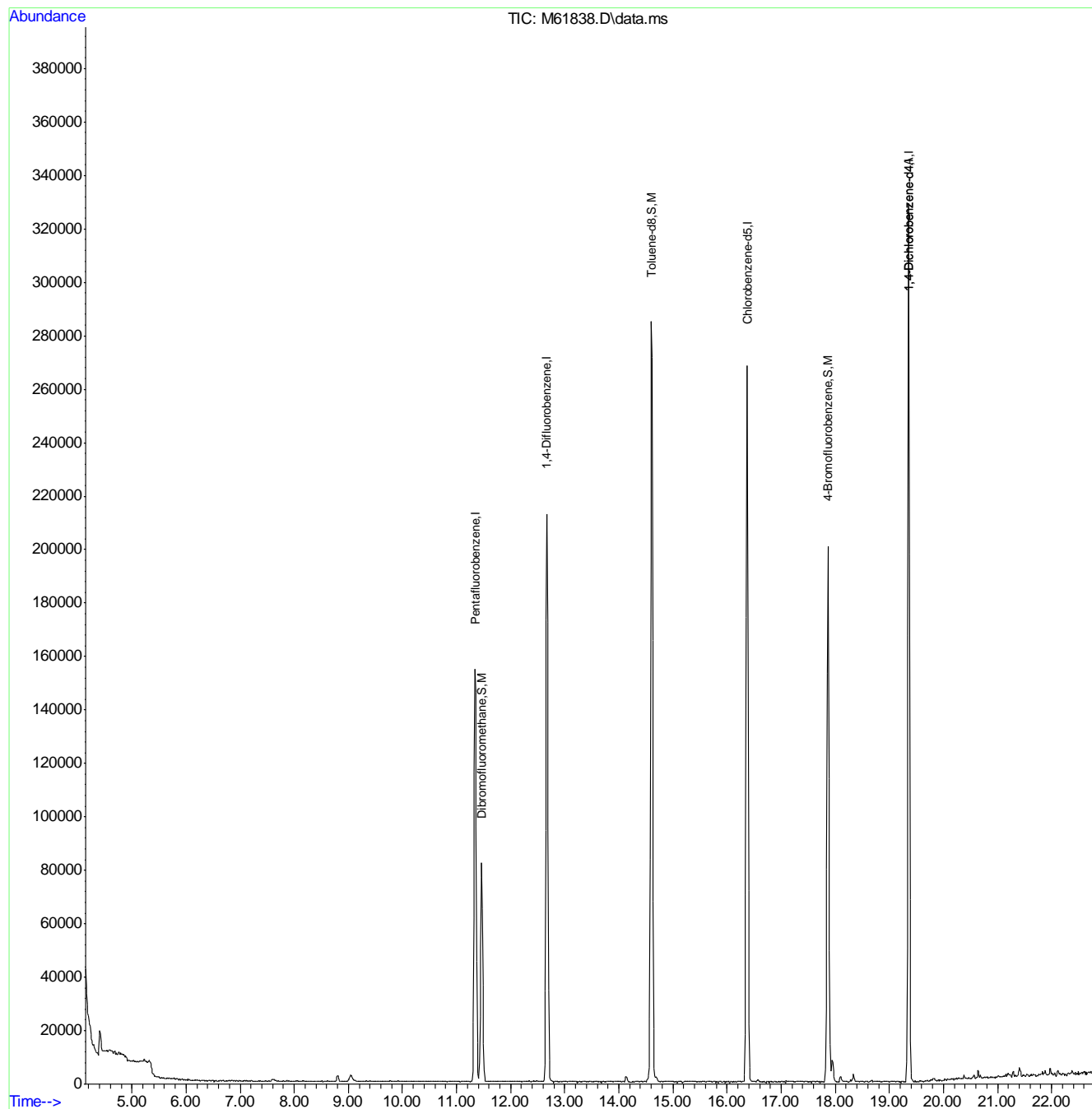
(#) = qualifier out of range (m) = manual integration (+) = signals summed

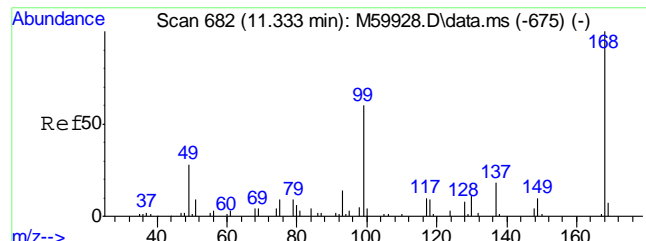
6.1.6
6

Quantitation Report (QT Reviewed)

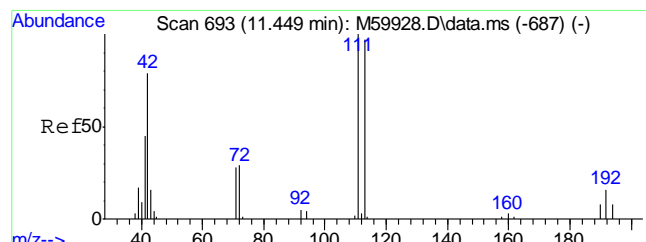
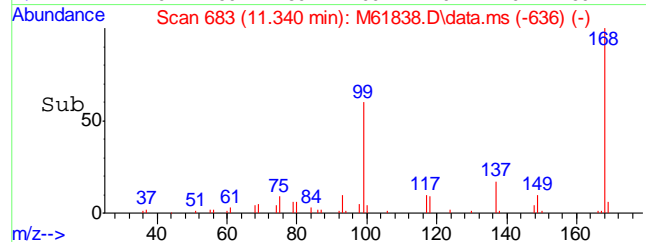
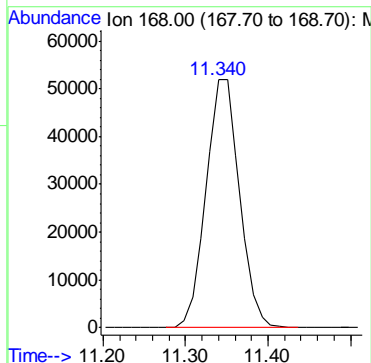
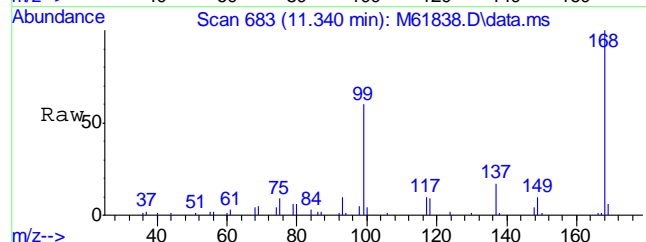
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61838.D
Acq On : 13 Jul 2016 4:02 pm
Operator : johannat
Sample : C46446-3
Misc : MS1912,VM1859,5.06,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:22:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

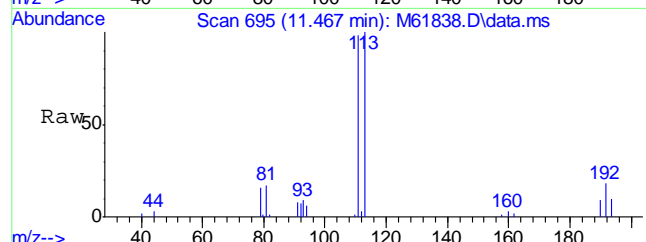




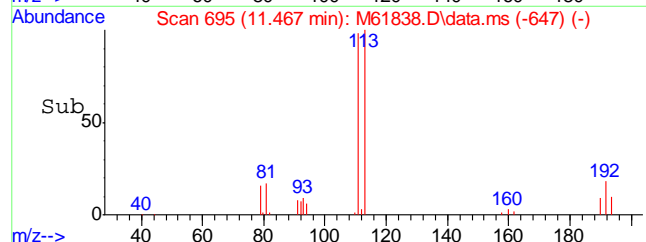
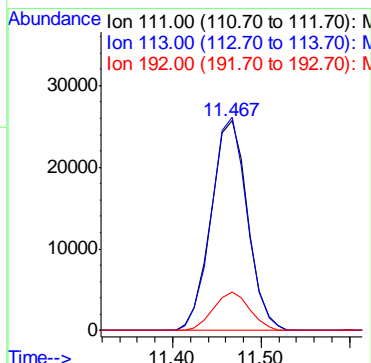
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:168 Resp: 146892

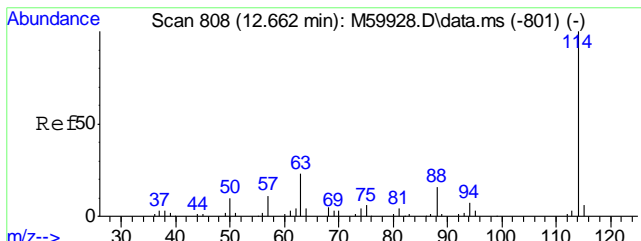


#36
 Dibromofluoromethane
 Concen: 19.92 ppb
 RT: 11.467 min Scan# 695
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:111 Resp: 74206

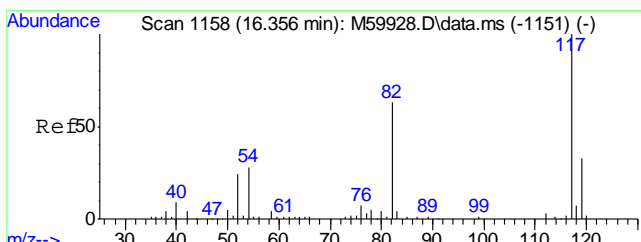
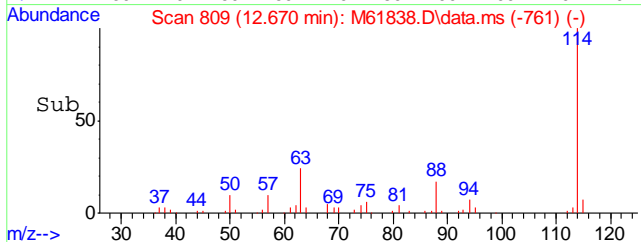
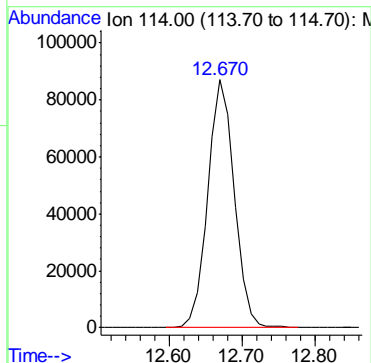
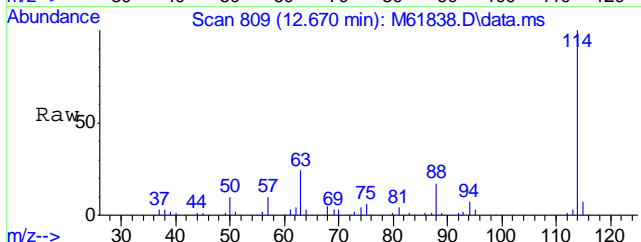


Ion	Ratio	Lower	Upper
111	100		
113	99.2	77.7	117.7
192	18.1	0.0	36.3

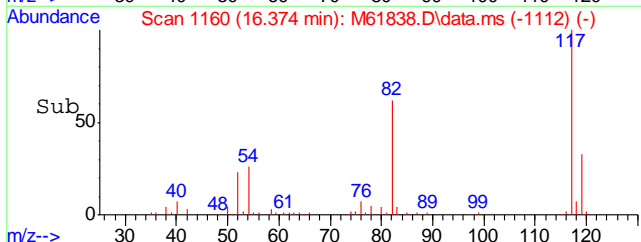
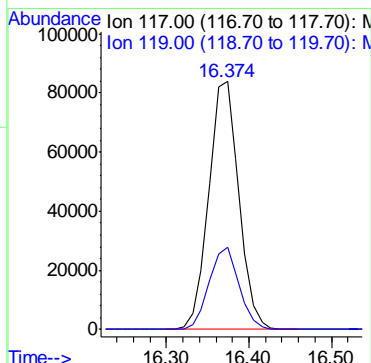
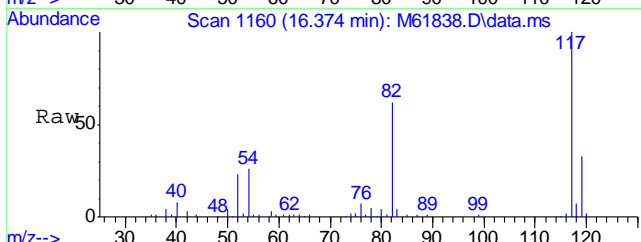


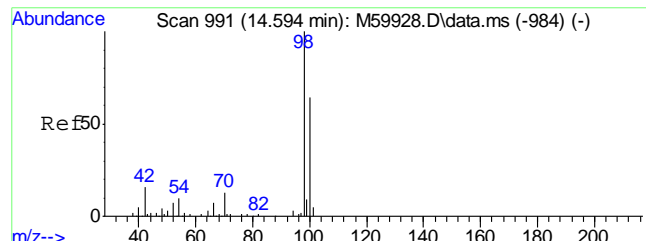


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.670 min Scan# 809
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:114 Resp: 220667



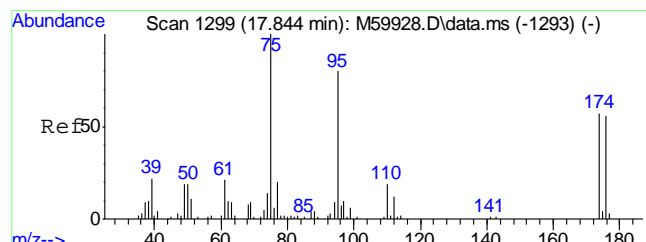
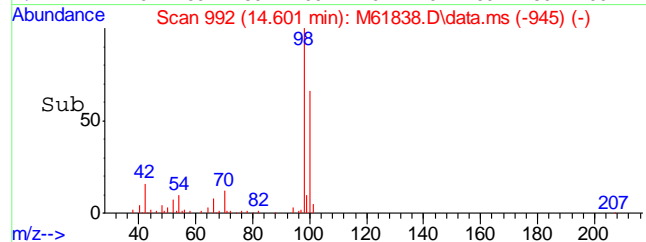
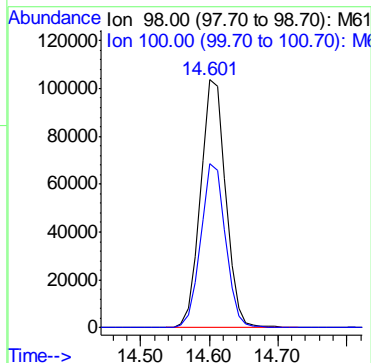
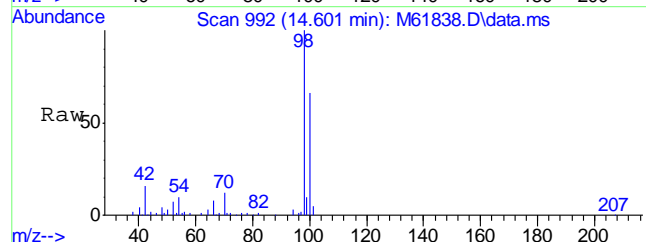
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.374 min Scan# 1160
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm
 Tgt Ion:117 Resp: 213253
 Ion Ratio Lower Upper
 117 100
 119 32.6 11.2 51.2





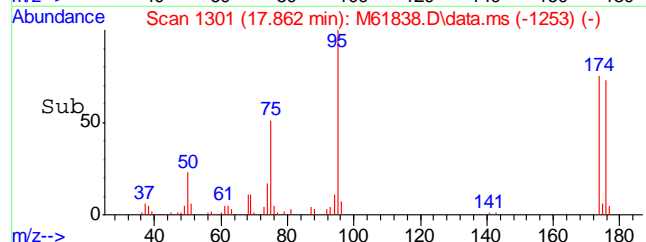
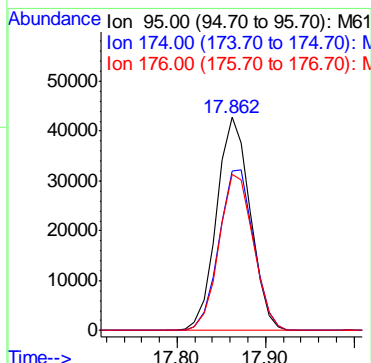
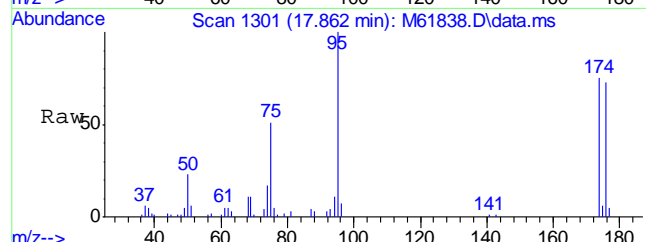
#56
Toluene-d8
Concen: 18.89 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61838.D
Acq: 13 Jul 2016 4:02 pm

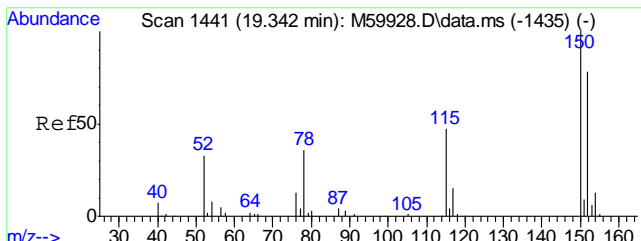
Tgt Ion	Resp	Lower	Upper
98	262925		
98	100		
100	65.1	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.58 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61838.D
Acq: 13 Jul 2016 4:02 pm

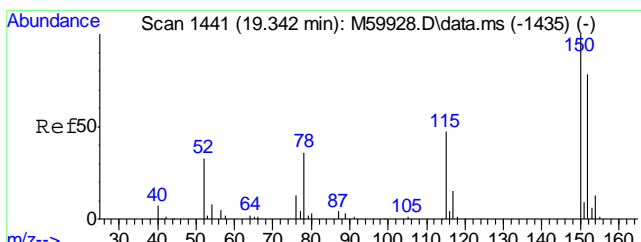
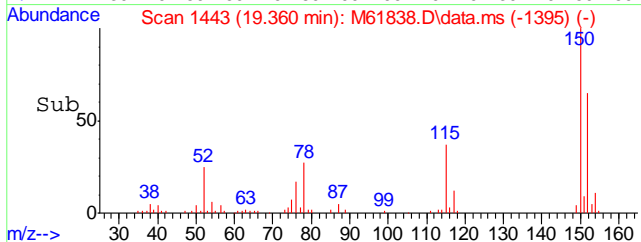
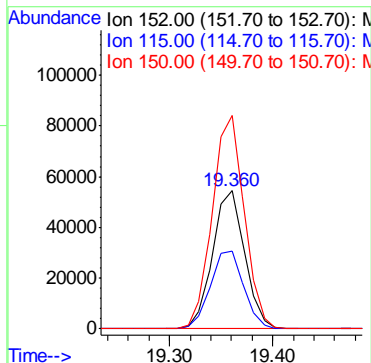
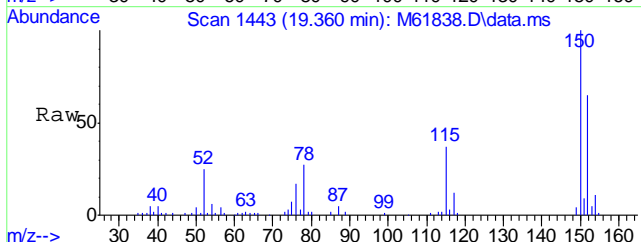
Tgt Ion	Resp	Lower	Upper
95	112629		
95	100		
174	77.8	54.3	94.3
176	75.0	51.5	91.5





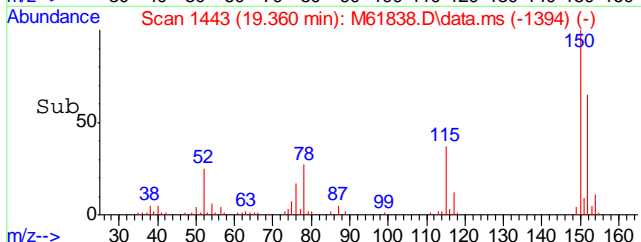
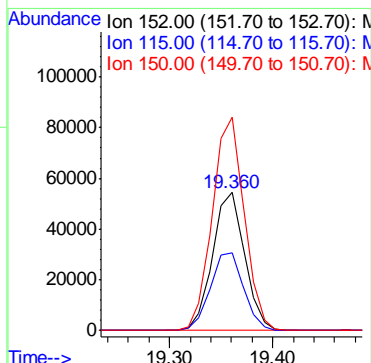
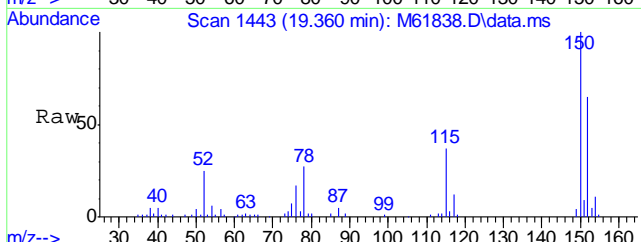
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.007 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm

Tgt Ion	Resp	Lower	Upper
152	117733		
152	100		
115	58.3	40.9	80.9
150	153.7	178.6	218.6#



#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61838.D
 Acq: 13 Jul 2016 4:02 pm

Tgt Ion	Resp	Lower	Upper
152	117733		
152	100		
115	58.3	37.3	77.3
150	153.7	176.0	216.0#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
Data File : M61918.D
Acq On : 18 Jul 2016 7:17 pm
Operator : johannat
Sample : C46446-4
Misc : MS1912,VM1861,5.59,,100,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
Quant Title : EPA 8260B
QLast Update : Mon Jul 18 09:14:24 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.341	168	163153	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.671	114	244407	20.00	ppb	0.00
55) Chlorobenzene-d5	16.364	117	241025	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.350	152	143367	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.350	152	143367	20.00	ppb	0.00

System Monitoring Compounds						
36) Dibromofluoromethane	11.457	111	73380	18.95	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	94.75%		
56) Toluene-d8	14.602	98	284531	19.36	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	96.80%		
74) 4-Bromofluorobenzene	17.863	95	135562	22.21	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	111.05%		

Target Compounds					Qvalue
100) TPH-GRO (C6-C10)	16.364	TIC	11410705m	289.74	ppb

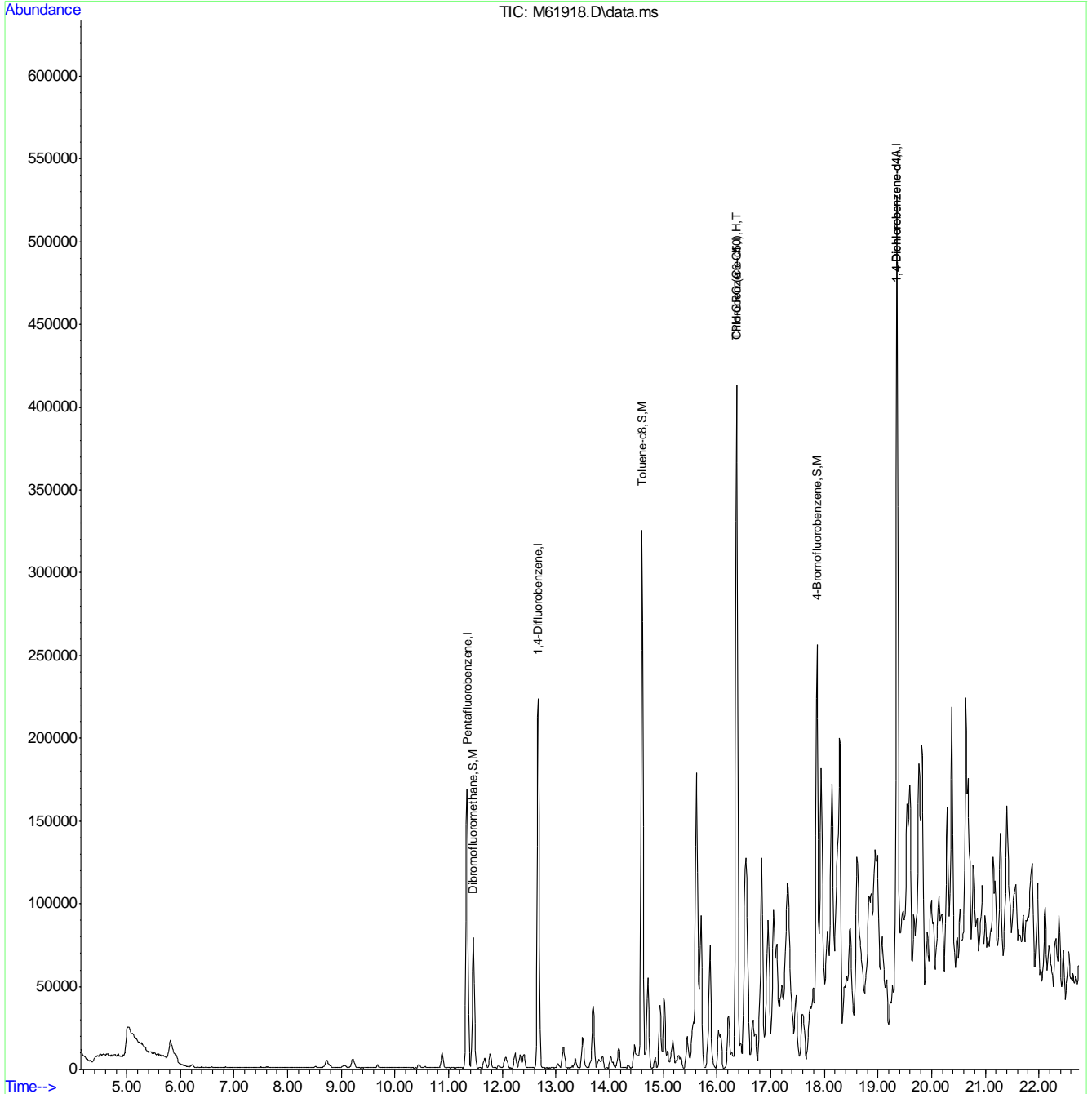
(#) = qualifier out of range (m) = manual integration (+) = signals summed

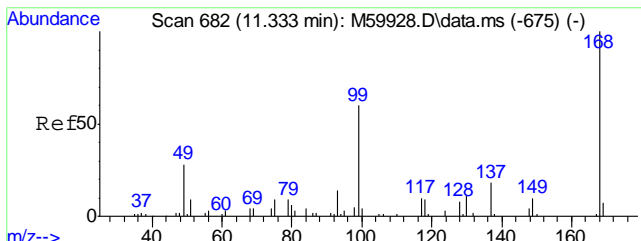
6.1.7
6

Quantitation Report (QT Reviewed)

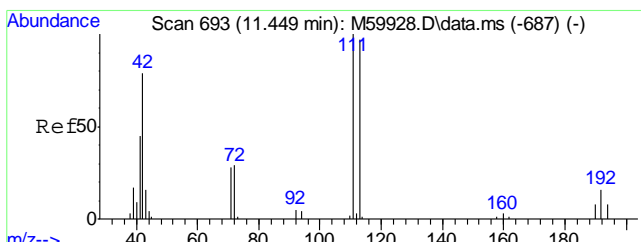
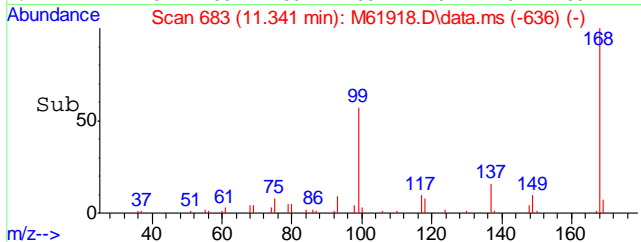
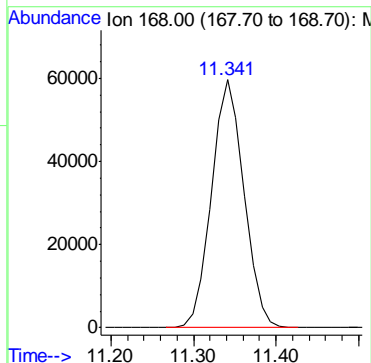
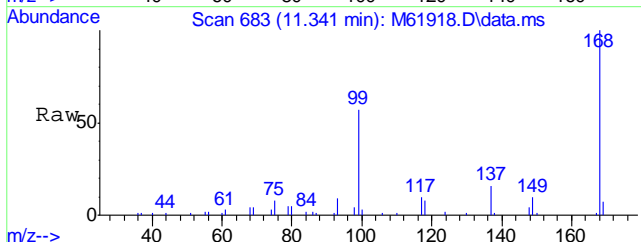
Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61918.D
 Acq On : 18 Jul 2016 7:17 pm
 Operator : johannat
 Sample : C46446-4
 Misc : MS1912,VM1861,5.59,,100,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:26:29 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

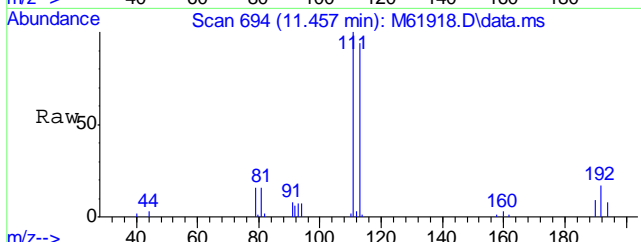




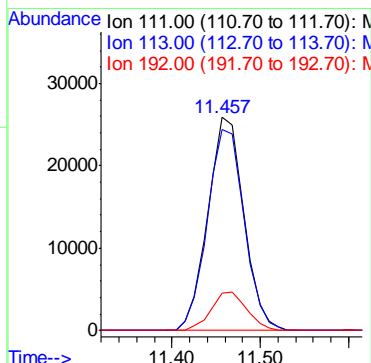
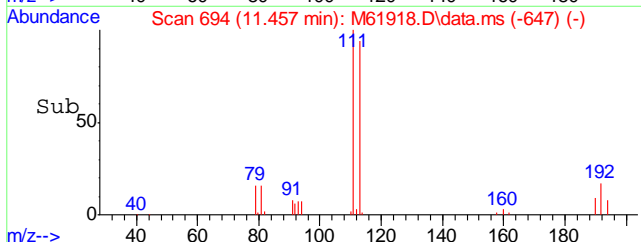
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.341 min Scan# 683
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:168 Resp: 163153

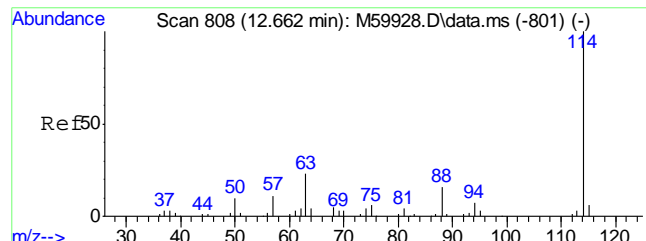


#36
 Dibromofluoromethane
 Concen: 18.95 ppb
 RT: 11.457 min Scan# 694
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:111 Resp: 73380

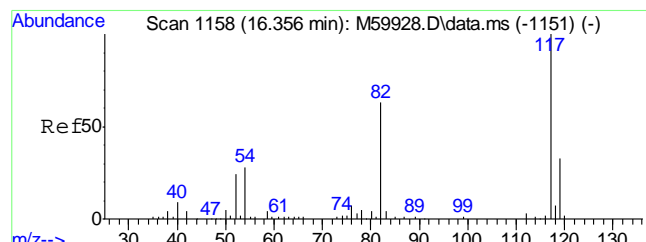
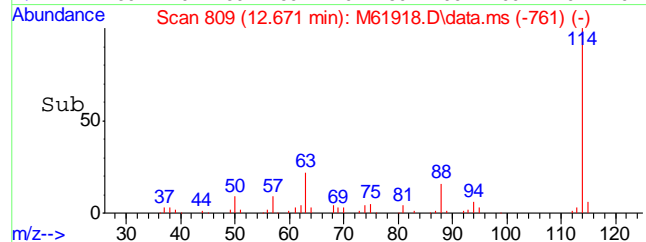
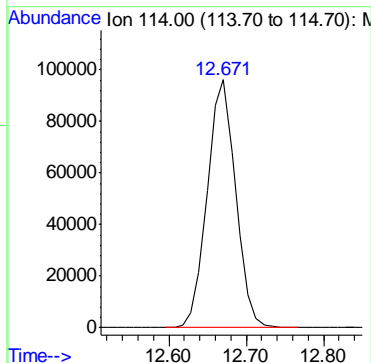
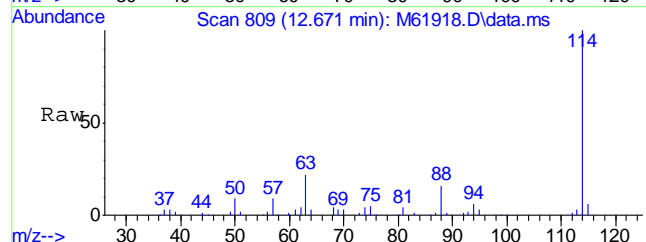


Ion	Ratio	Lower	Upper
111	100		
113	96.4	77.7	117.7
192	17.7	0.0	36.3



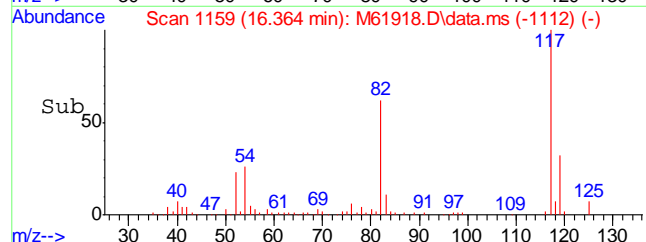
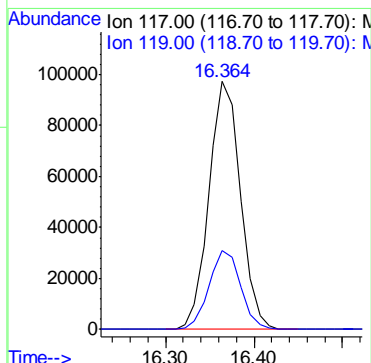
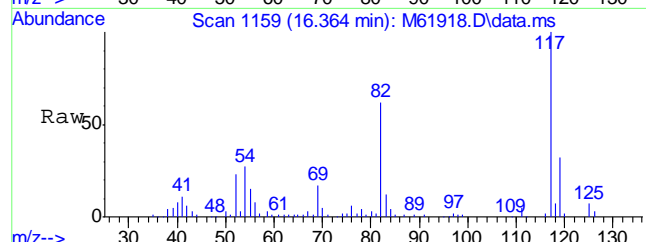


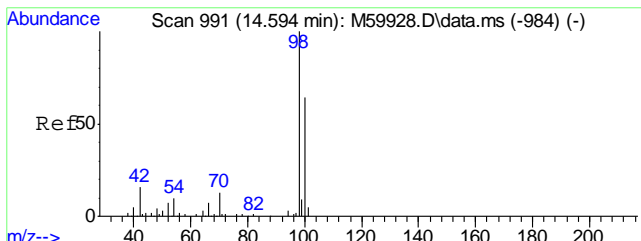
#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.671 min Scan# 809
 Delta R.T. 0.008 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:114 Resp: 244407



#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.364 min Scan# 1159
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:117 Resp: 241025

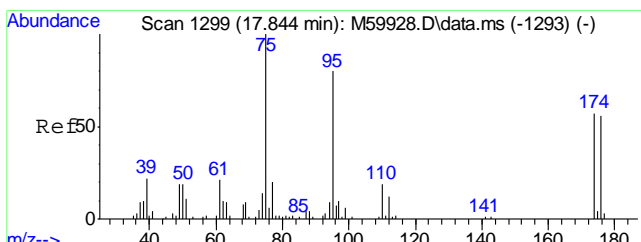
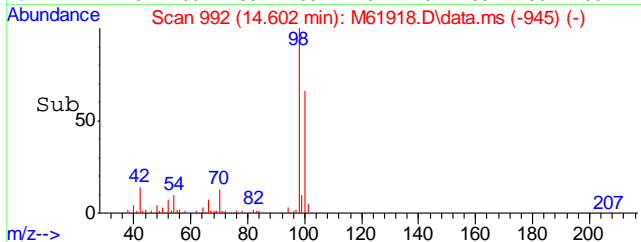
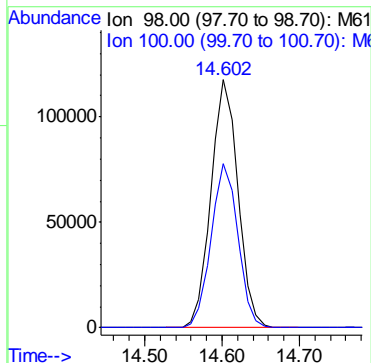
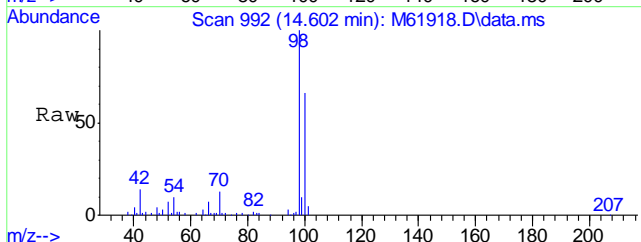
Ion	Ratio	Lower	Upper
117	100		
119	31.8	11.2	51.2





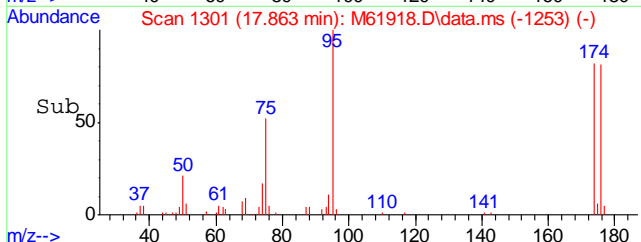
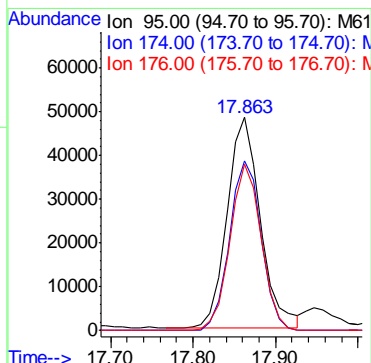
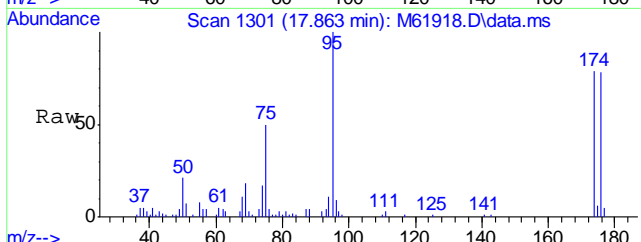
#56
Toluene-d8
Concen: 19.36 ppb
RT: 14.602 min Scan# 992
Delta R.T. -0.002 min
Lab File: M61918.D
Acq: 18 Jul 2016 7:17 pm

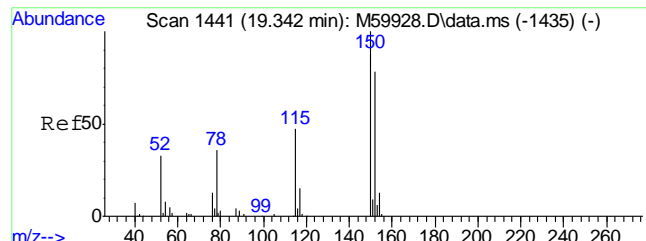
Tgt Ion	Resp	Lower	Upper
98	284531		
98	100		
100	65.7	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 22.21 ppb
RT: 17.863 min Scan# 1301
Delta R.T. 0.008 min
Lab File: M61918.D
Acq: 18 Jul 2016 7:17 pm

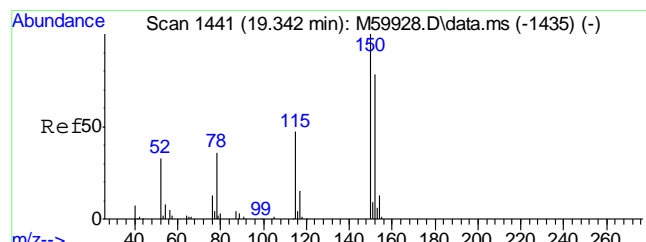
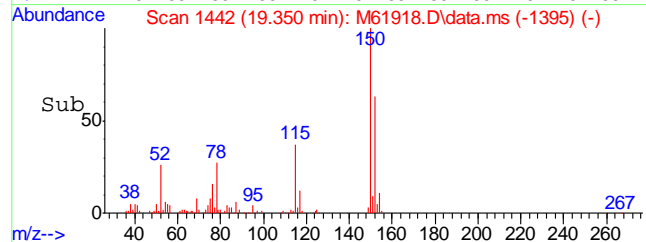
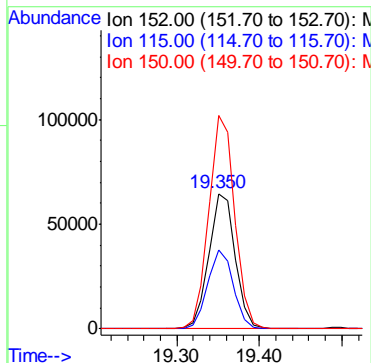
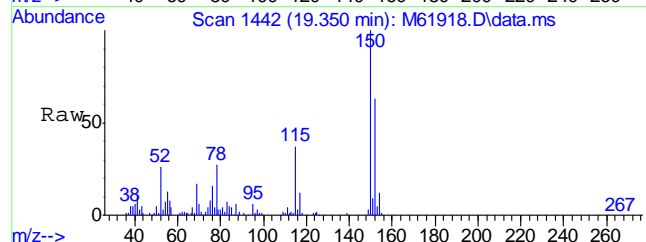
Tgt Ion	Resp	Lower	Upper
95	135562		
95	100		
174	75.8	54.3	94.3
176	73.4	51.5	91.5





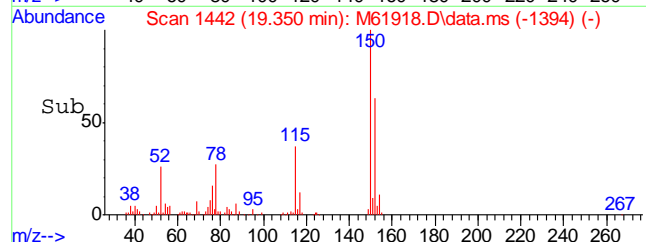
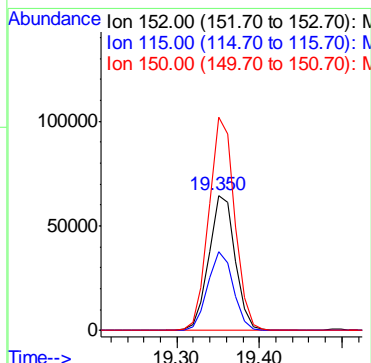
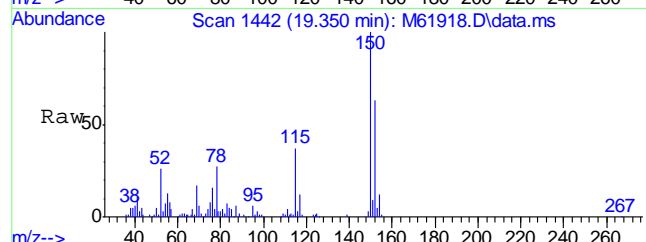
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.350 min Scan# 1442
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm

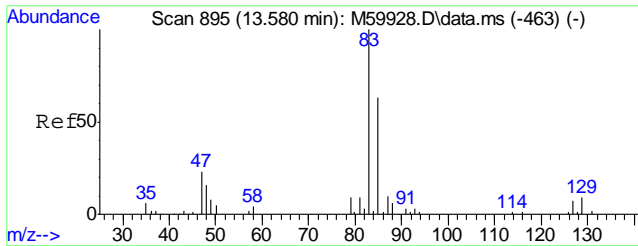
Tgt Ion	Resp	Lower	Upper
152	143367		
152	100		
115	57.0	40.9	80.9
150	154.9	178.6	218.6#



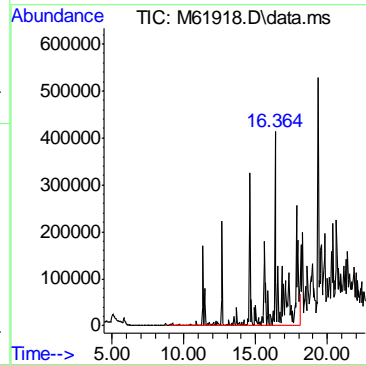
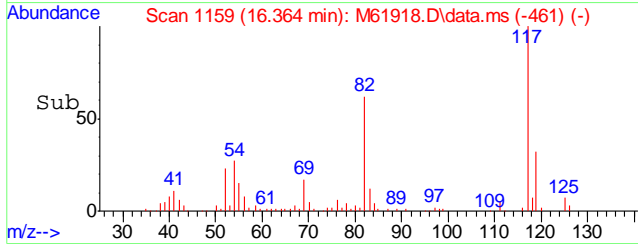
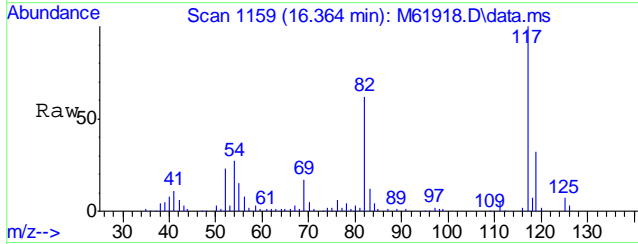
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.350 min Scan# 1442
 Delta R.T. 0.008 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm

Tgt Ion	Resp	Lower	Upper
152	143367		
152	100		
115	57.0	37.3	77.3
150	154.9	176.0	216.0#





#100
 TPH-GRO (C6-C10)
 Concen: 289.74 ppb m
 RT: 16.364 min Scan# 1159
 Delta R.T. 2.814 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:TIC Resp:11410705



6.1.7
 6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
Data File : M61918.D
Acq On : 18 Jul 2016 7:17 pm
Operator : johannat
Sample : C46446-4
Misc : MS1912,VM1861,5.59,,100,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
Quant Title : EPA 8260B
QLast Update : Mon Jul 18 09:14:24 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, and 1,4-Dichlorobenzene-d4A.

System Monitoring Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Dev(Min). Includes Dibromofluoromethane and Toluene-d8 with spiked amounts and recovery percentages.

Target Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Qvalue. Includes TPH-GRO (C6-C10).

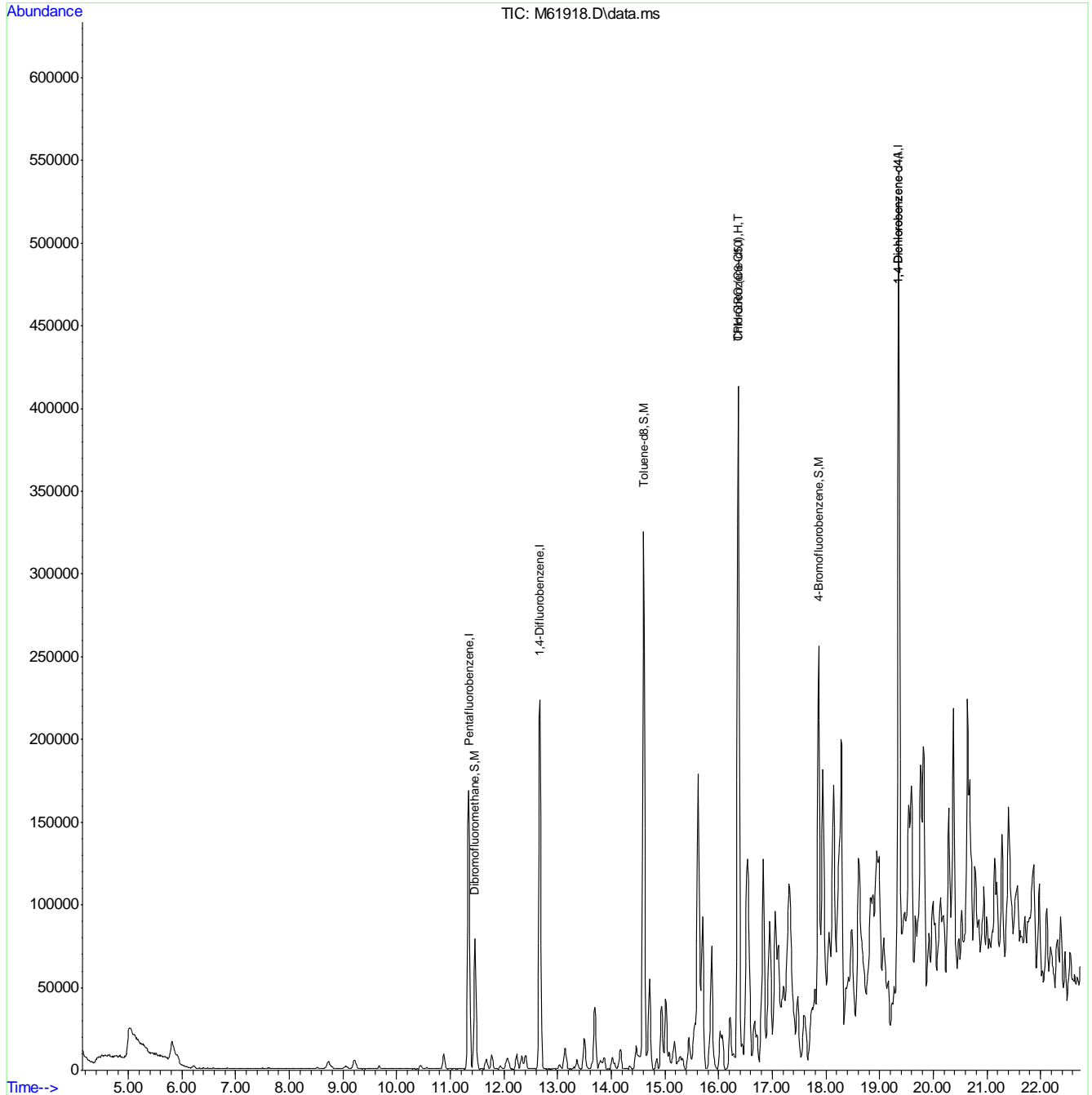
(#) = qualifier out of range (m) = manual integration (+) = signals summed

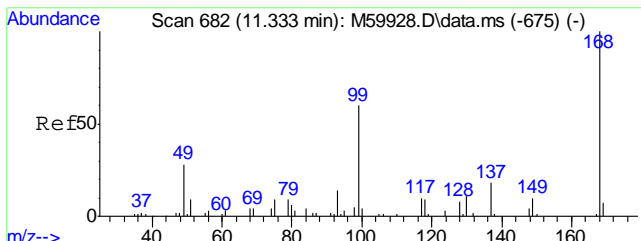
6.1.8
6

Quantitation Report (QT Reviewed)

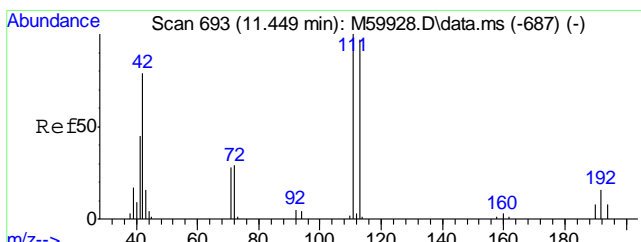
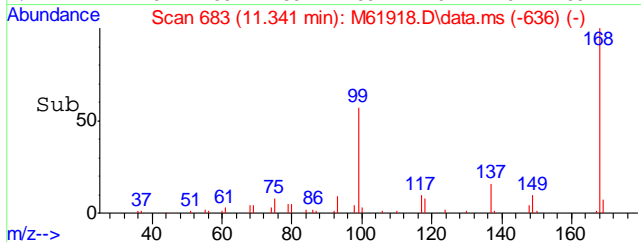
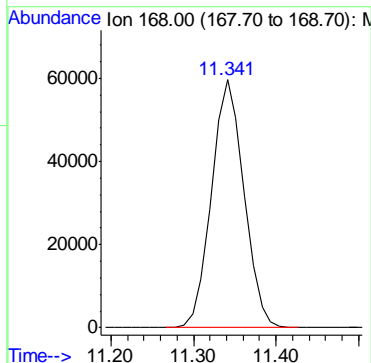
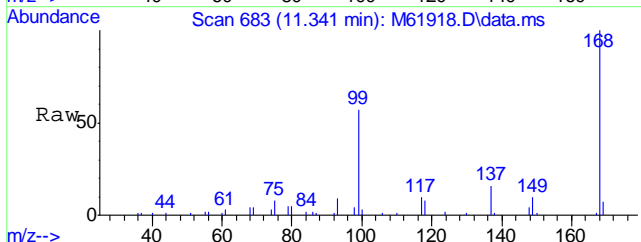
Data Path : C:\MSDCHEM\1\DATA\M160718\
Data File : M61918.D
Acq On : 18 Jul 2016 7:17 pm
Operator : johannat
Sample : C46446-4
Misc : MS1912,VM1861,5.59,,100,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 03 18:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
Quant Title : EPA 8260B
QLast Update : Mon Jul 18 09:14:24 2016
Response via : Initial Calibration

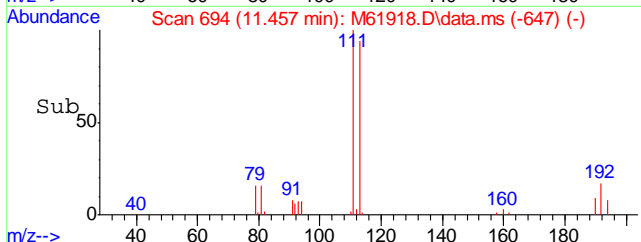
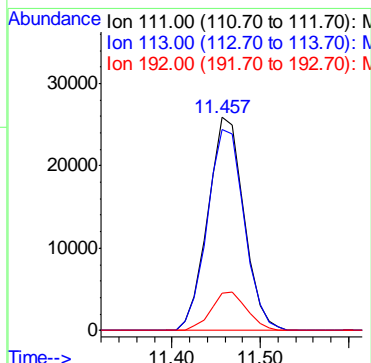
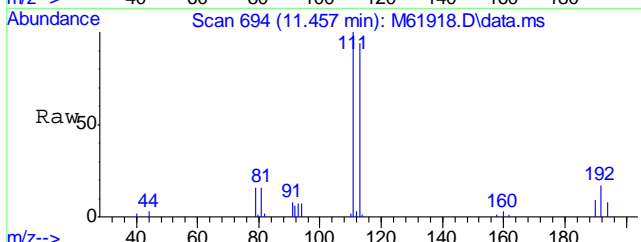


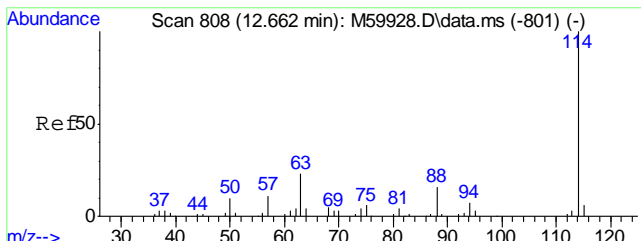


#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.341 min Scan# 683
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:168 Resp: 163153

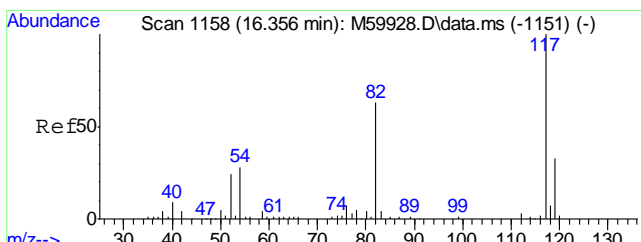
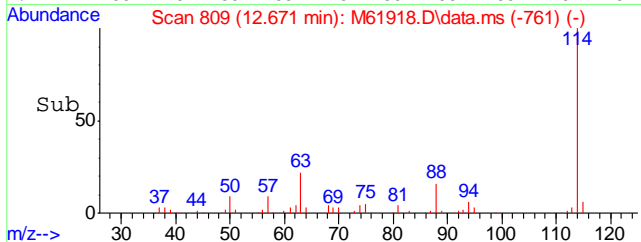
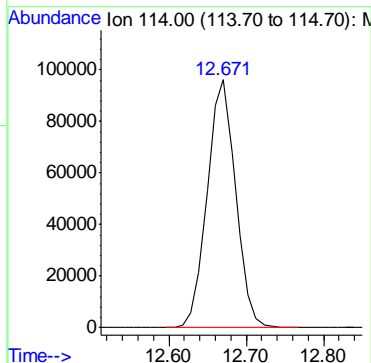
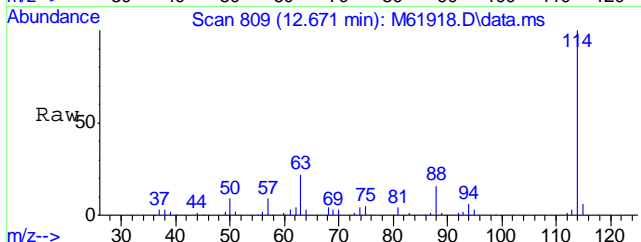


#36
 Dibromofluoromethane
 Concen: 18.95 ppb
 RT: 11.457 min Scan# 694
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:111 Resp: 73380

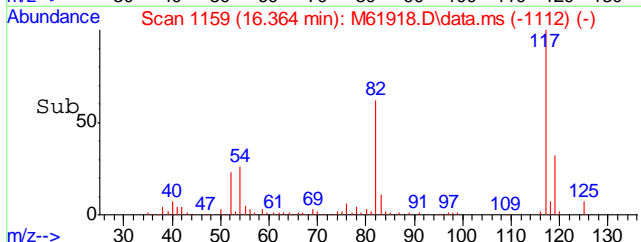
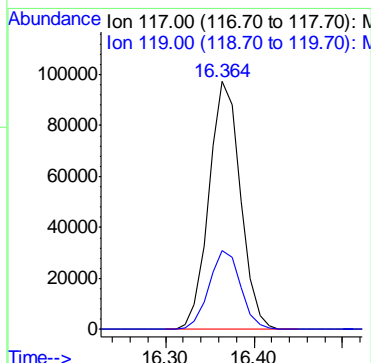
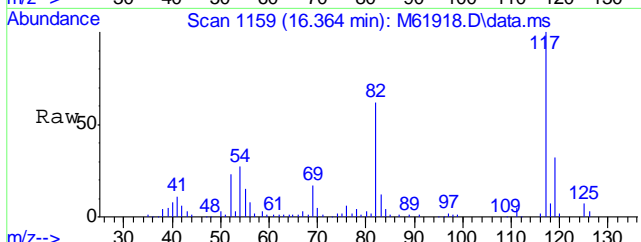


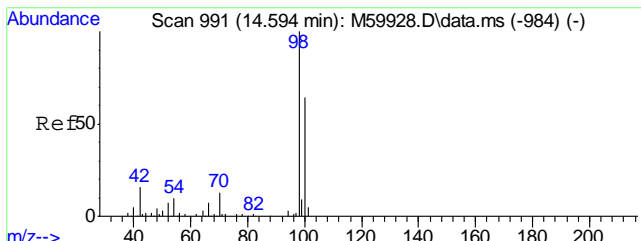


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.671 min Scan# 809
 Delta R.T. 0.008 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:114 Resp: 244407



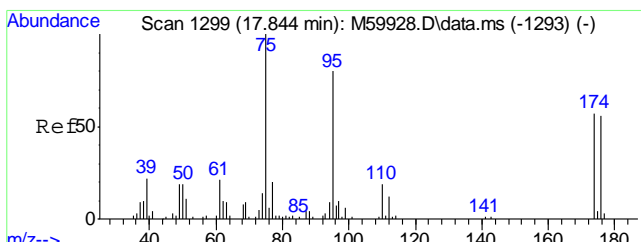
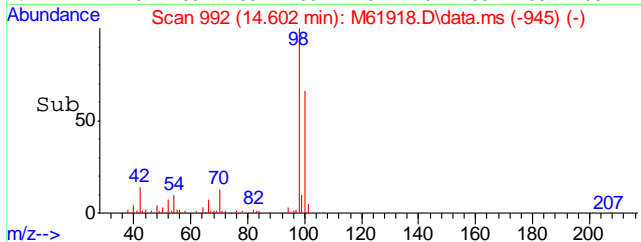
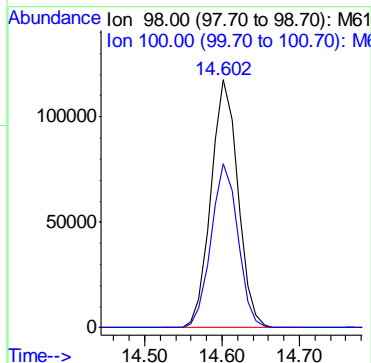
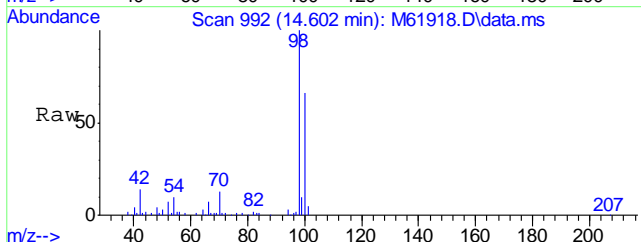
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.364 min Scan# 1159
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm
 Tgt Ion:117 Resp: 241025
 Ion Ratio Lower Upper
 117 100
 119 31.8 11.2 51.2





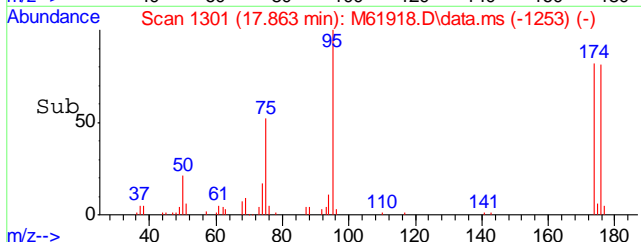
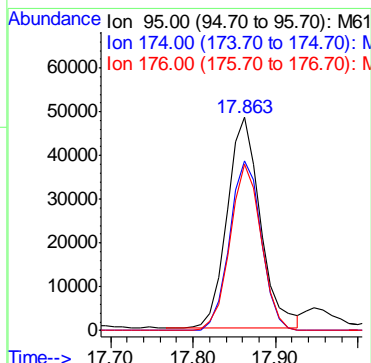
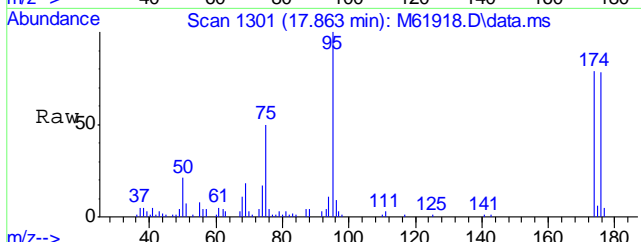
#56
Toluene-d8
Concen: 19.36 ppb
RT: 14.602 min Scan# 992
Delta R.T. -0.002 min
Lab File: M61918.D
Acq: 18 Jul 2016 7:17 pm

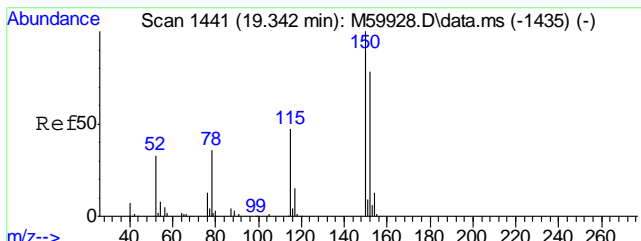
Tgt Ion	Resp	Lower	Upper
98	284531		
98	100		
100	65.7	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 22.21 ppb
RT: 17.863 min Scan# 1301
Delta R.T. 0.008 min
Lab File: M61918.D
Acq: 18 Jul 2016 7:17 pm

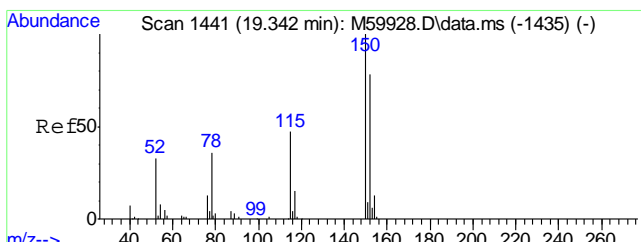
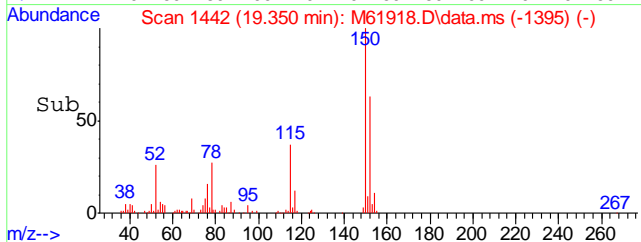
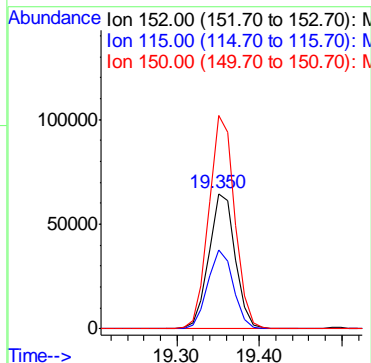
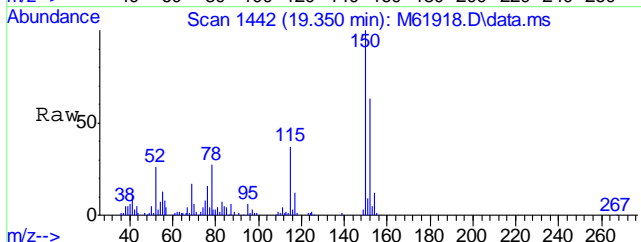
Tgt Ion	Resp	Lower	Upper
95	135562		
95	100		
174	75.8	54.3	94.3
176	73.4	51.5	91.5





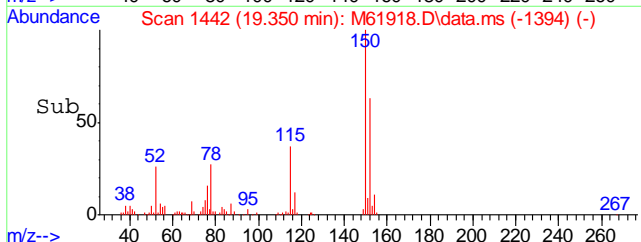
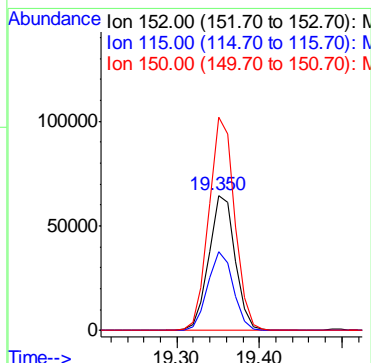
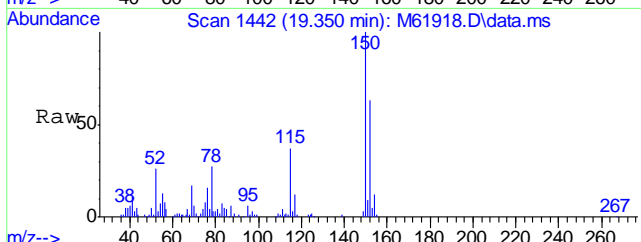
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.350 min Scan# 1442
 Delta R.T. -0.002 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm

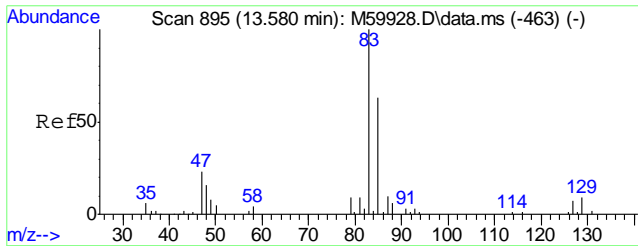
Tgt Ion	Resp	Lower	Upper
152	100		
115	57.0	40.9	80.9
150	154.9	178.6	218.6#



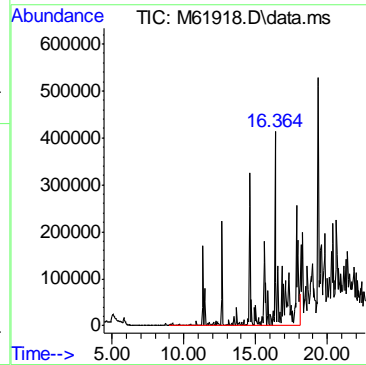
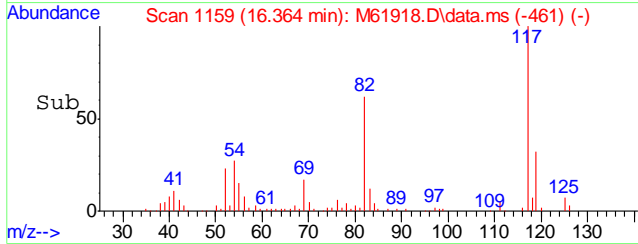
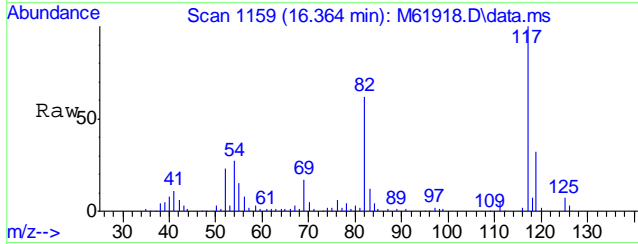
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.350 min Scan# 1442
 Delta R.T. 0.008 min
 Lab File: M61918.D
 Acq: 18 Jul 2016 7:17 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	57.0	37.3	77.3
150	154.9	176.0	216.0#





#100
TPH-GRO (C6-C10)
Concen: 289.74 ppb m
RT: 16.364 min Scan# 1159
Delta R.T. 2.814 min
Lab File: M61918.D
Acq: 18 Jul 2016 7:17 pm
Tgt Ion:TIC Resp:11410705



6.18
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61849.D
 Acq On : 13 Jul 2016 9:28 pm
 Operator : johannat
 Sample : C46446-5
 Misc : MS1912,VM1859,5.92,,100,5,1
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 03 18:24:57 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.340	168	208853	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.670	114	310148	20.00	ppb	0.00
55) Chlorobenzene-d5	16.363	117	285879	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	175211	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	175211	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.467	111	92296	17.43	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	87.15%		
56) Toluene-d8	14.601	98	365527	19.59	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	97.95%		
74) 4-Bromofluorobenzene	17.862	95	162253	22.12	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	110.60%		

Target Compounds

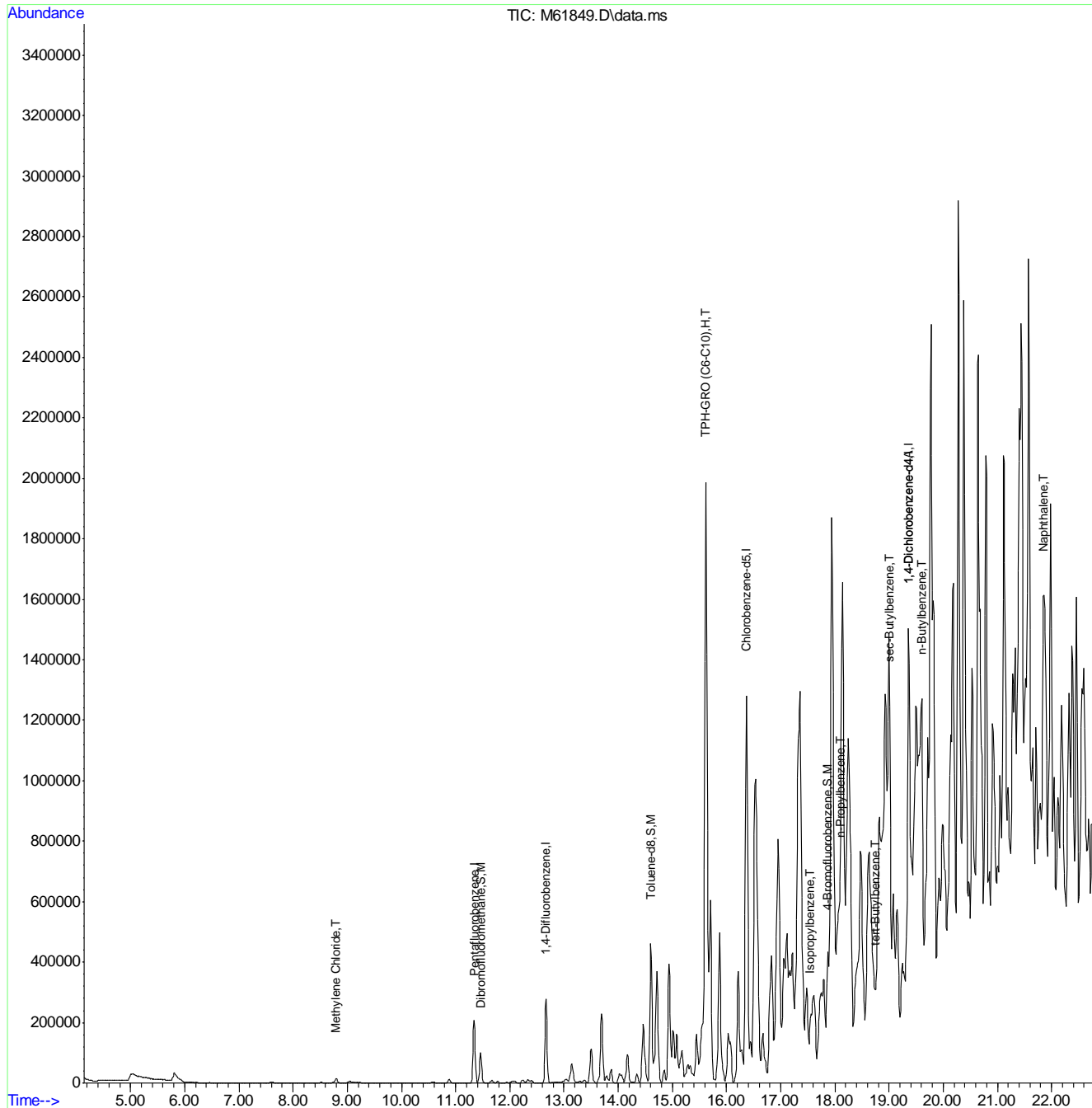
						Qvalue
19) Methylene Chloride	8.797	84	10730	1.45	ppb	93
73) Isopropylbenzene	17.545	105	172710	6.24	ppb	97
79) n-Propylbenzene	18.094	91	171798	4.15	ppb	98
84) tert-Butylbenzene	18.748	119	23150	0.87	ppb	93
87) sec-Butylbenzene	19.012	105	544470	15.19	ppb	97
92) n-Butylbenzene	19.603	91	107531	3.60	ppb	88
97) Naphthalene	21.851	128	132810	5.77	ppb	100
100) TPH-GRO (C6-C10)	15.614	TIC	68552710m	1463.76	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

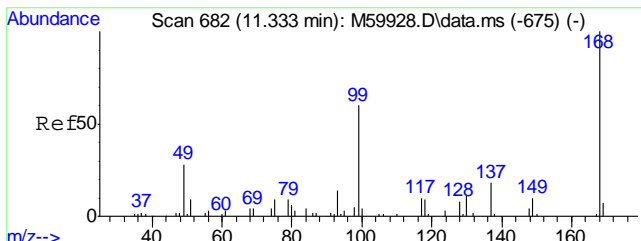
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61849.D
Acq On : 13 Jul 2016 9:28 pm
Operator : johannat
Sample : C46446-5
Misc : MS1912,VM1859,5.92,,100,5,1
ALS Vial : 23 Sample Multiplier: 1

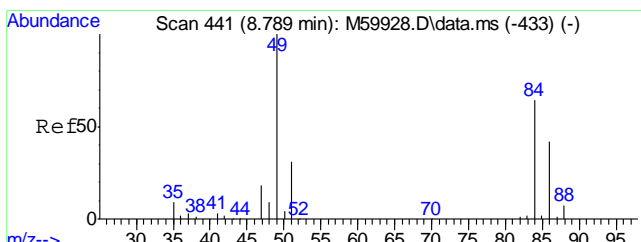
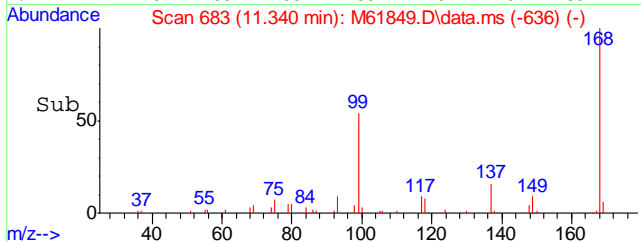
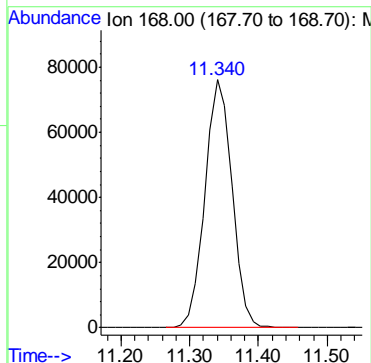
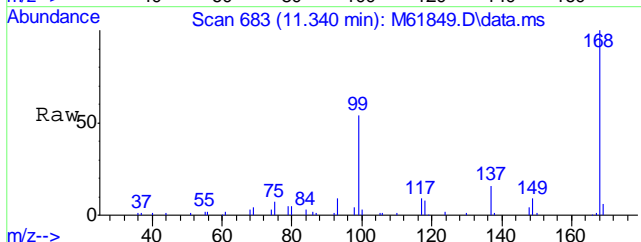
Quant Time: Aug 03 18:24:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration



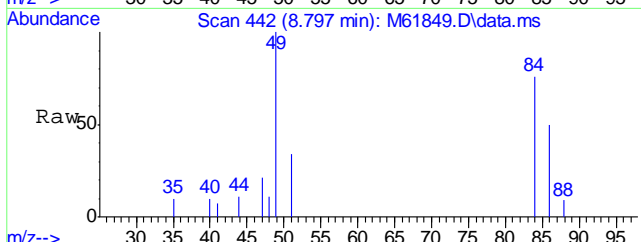
6.1.9
6



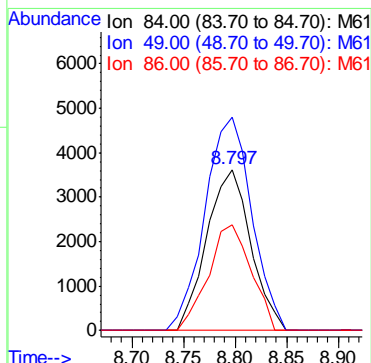
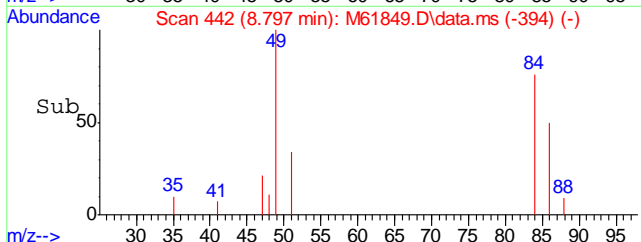
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm
 Tgt Ion:168 Resp: 208853

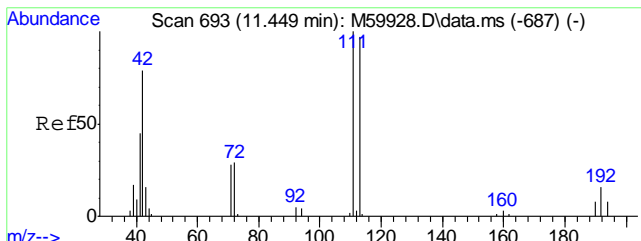


#19
 Methylene Chloride
 Concen: 1.45 ppb
 RT: 8.797 min Scan# 442
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm
 Tgt Ion: 84 Resp: 10730



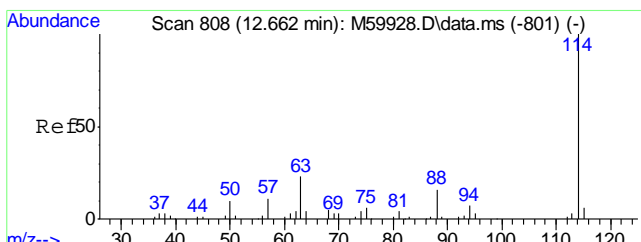
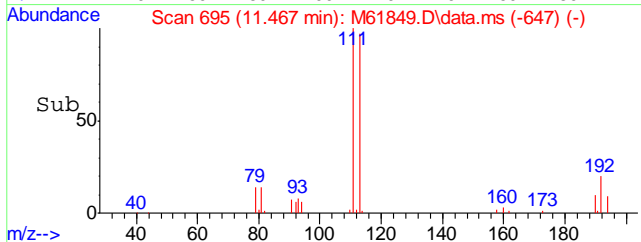
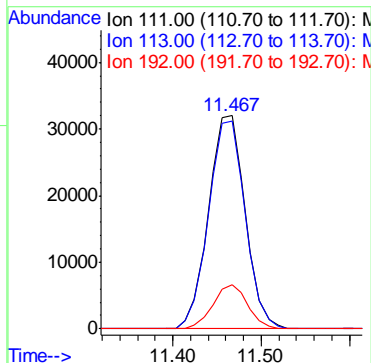
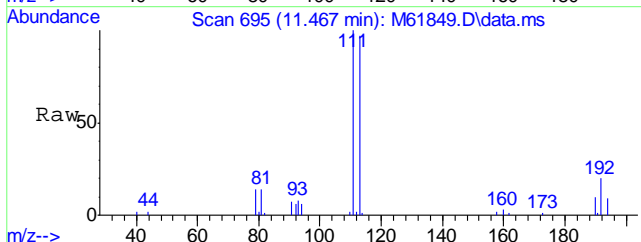
Ion	Ratio	Lower	Upper
84	100		
49	140.9	134.5	174.5
86	63.8	43.8	83.8





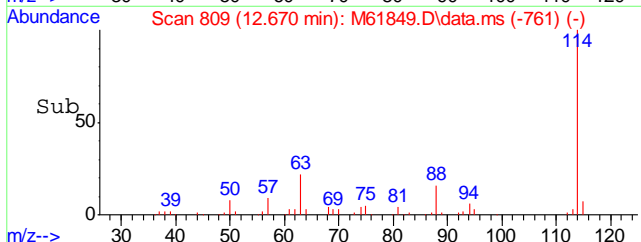
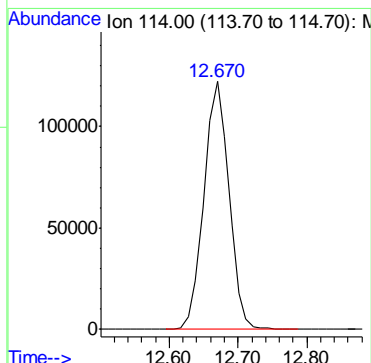
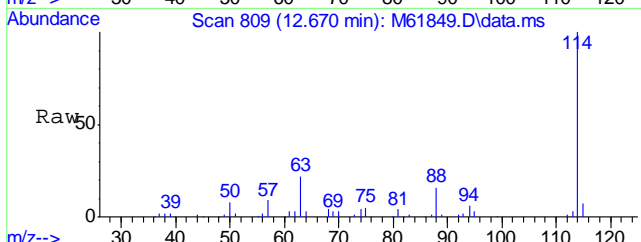
#36
 Dibromofluoromethane
 Concen: 17.43 ppb
 RT: 11.467 min Scan# 695
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

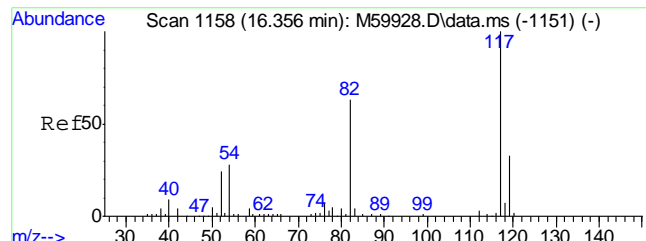
Tgt Ion	Resp	Lower	Upper
111	100		
113	97.6	77.7	117.7
192	19.4	0.0	36.3



#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.670 min Scan# 809
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

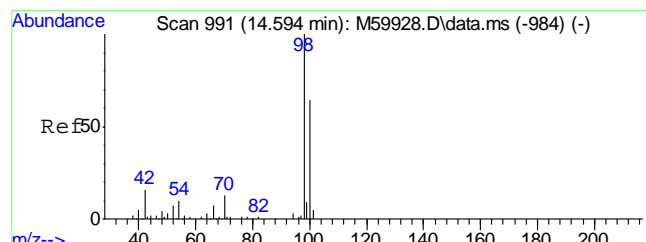
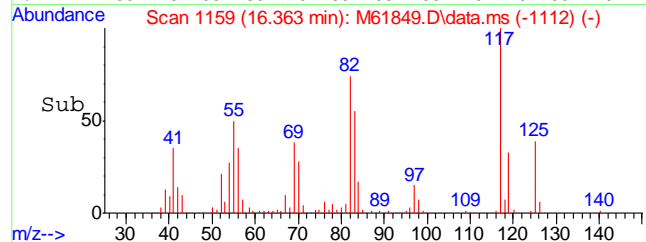
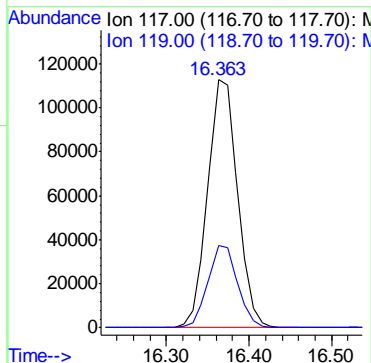
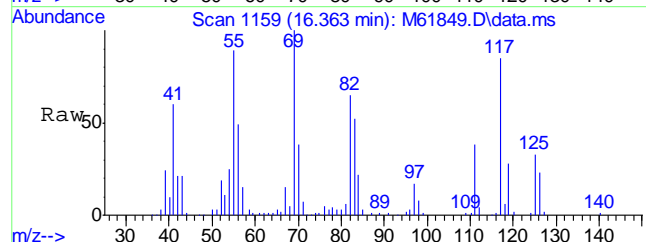
Tgt Ion	Resp
114	310148





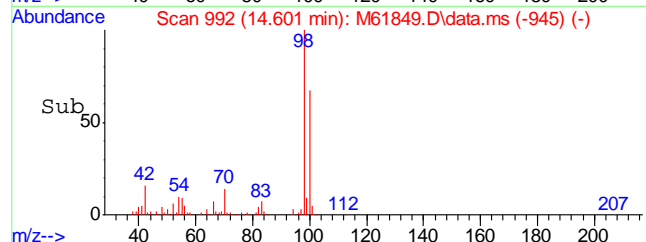
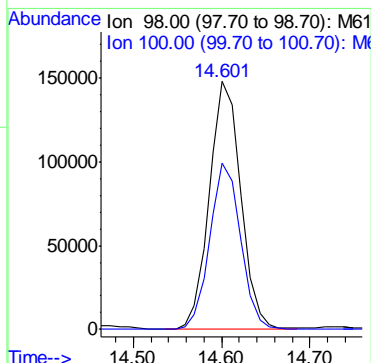
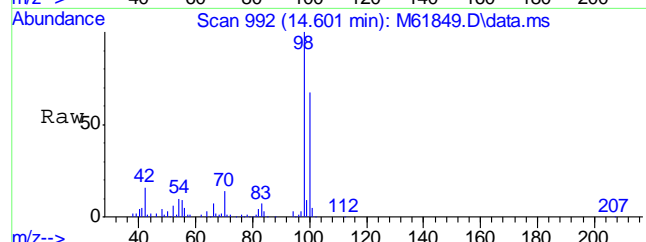
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.363 min Scan# 1159
Delta R.T. -0.003 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

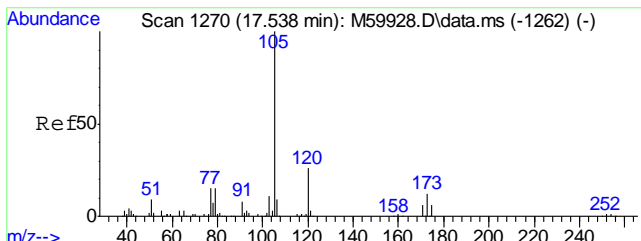
Tgt Ion	Resp	Lower	Upper
117	285879	100	
119	32.9	11.2	51.2



#56
Toluene-d8
Concen: 19.59 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

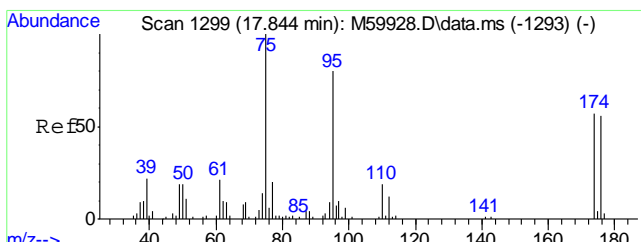
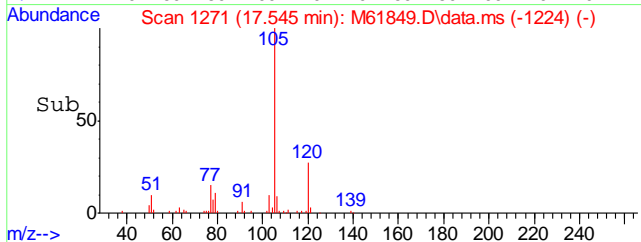
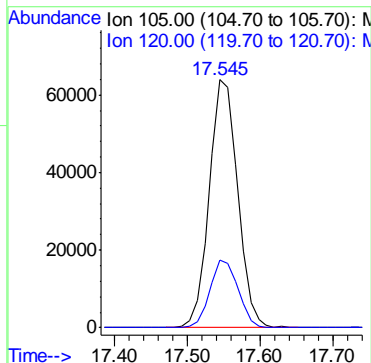
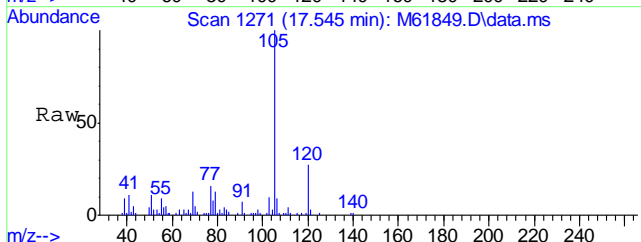
Tgt Ion	Resp	Lower	Upper
98	365527	100	
100	65.6	44.3	84.3





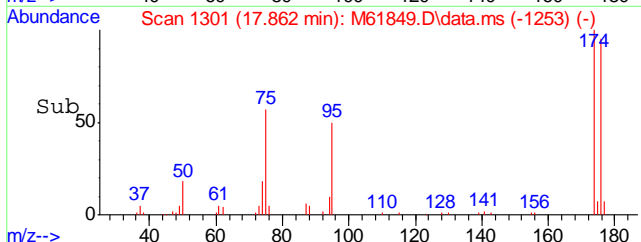
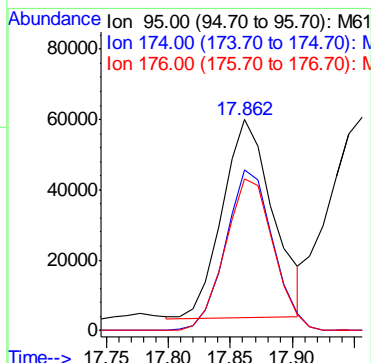
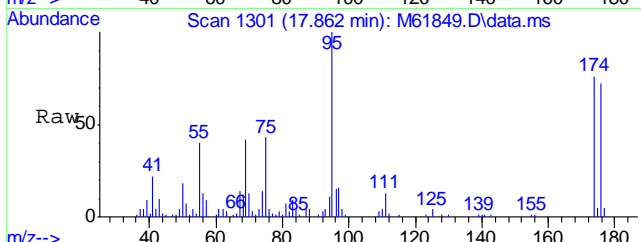
#73
Isopropylbenzene
Concen: 6.24 ppb
RT: 17.545 min Scan# 1271
Delta R.T. -0.003 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

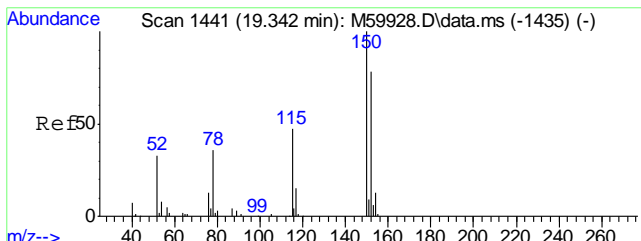
Tgt Ion	Resp	Lower	Upper
105	172710	100	
120	27.1	5.7	45.7



#74
4-Bromofluorobenzene
Concen: 22.12 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

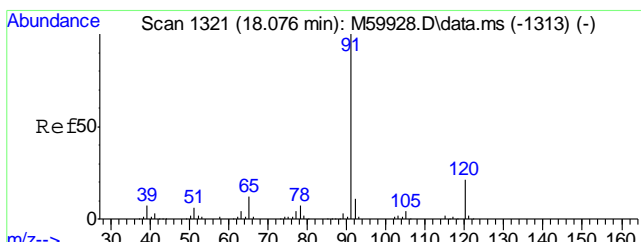
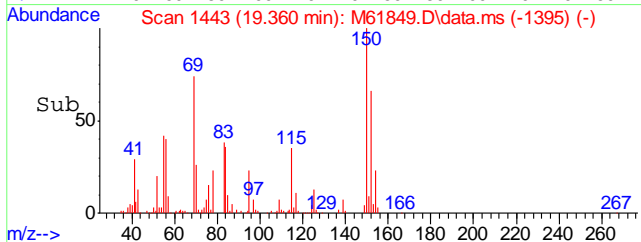
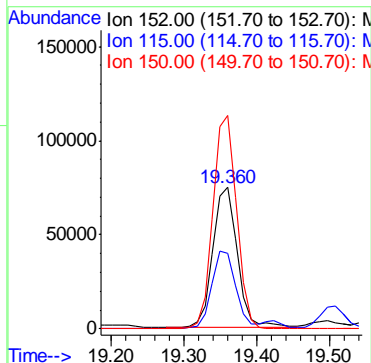
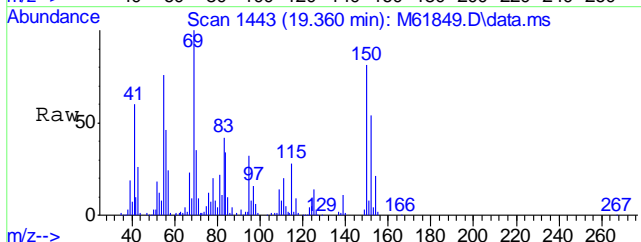
Tgt Ion	Resp	Lower	Upper
95	162253	100	
174	75.3	54.3	94.3
176	72.6	51.5	91.5





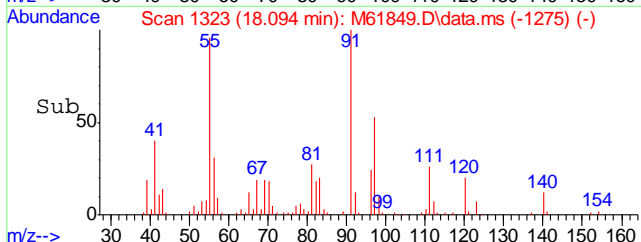
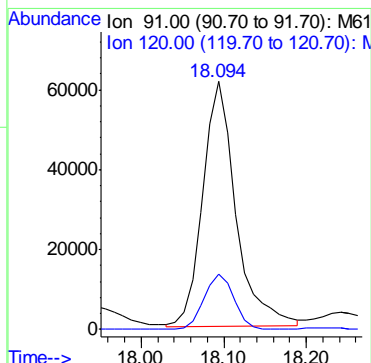
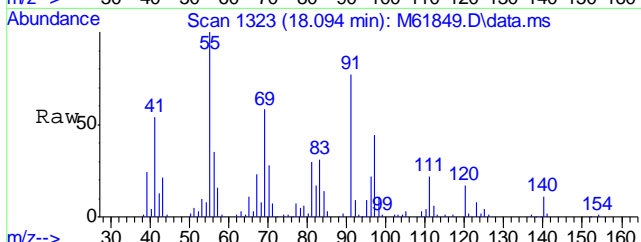
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

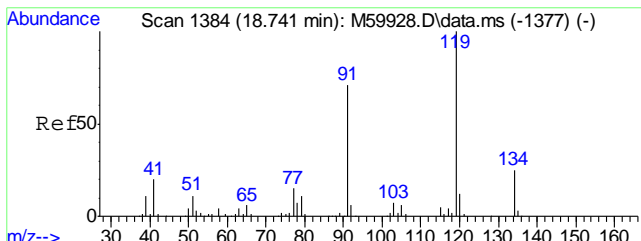
Tgt Ion	Resp	Lower	Upper
152	175211		
152	100		
115	55.0	40.9	80.9
150	144.8	178.6	218.6#



#79
 n-Propylbenzene
 Concen: 4.15 ppb
 RT: 18.094 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

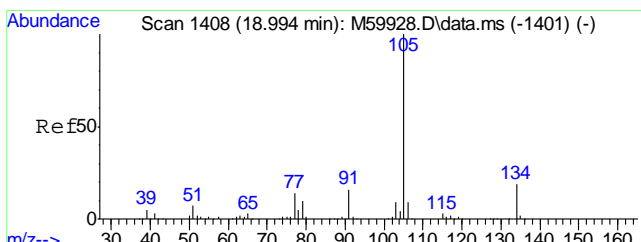
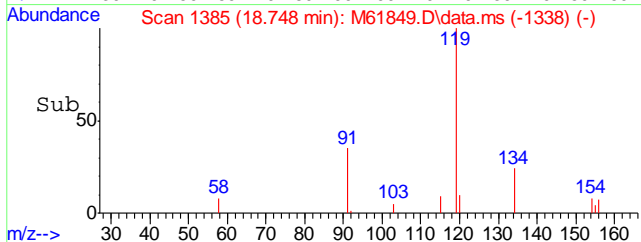
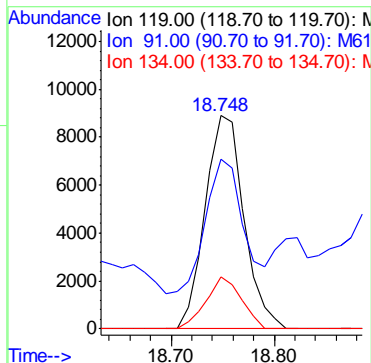
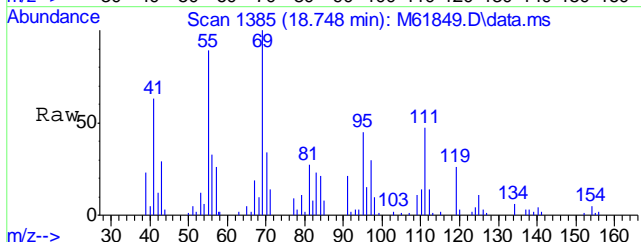
Tgt Ion	Resp	Lower	Upper
91	171798		
91	100		
120	20.3	1.3	41.3





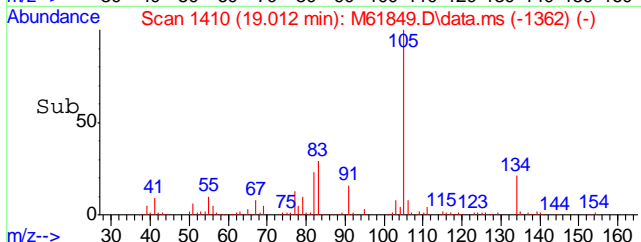
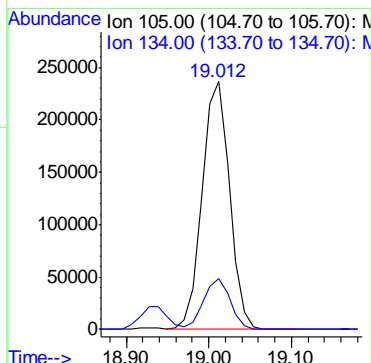
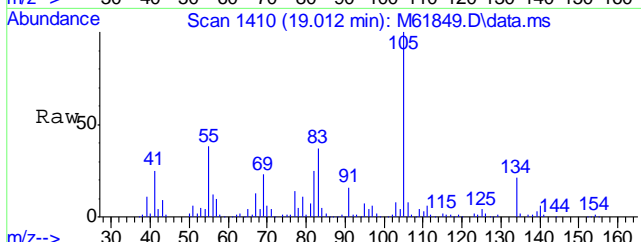
#84
 tert-Butylbenzene
 Concen: 0.87 ppb
 RT: 18.748 min Scan# 1385
 Delta R.T. -0.003 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

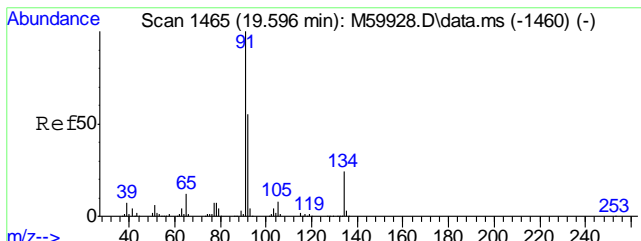
Tgt Ion	Resp	Lower	Upper
119	23150	100	
91	67.4	54.6	94.6
134	22.0	0.4	40.4



#87
 sec-Butylbenzene
 Concen: 15.19 ppb
 RT: 19.012 min Scan# 1410
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

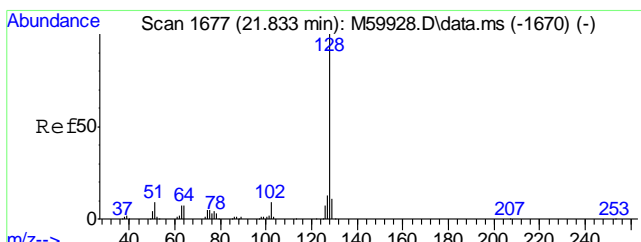
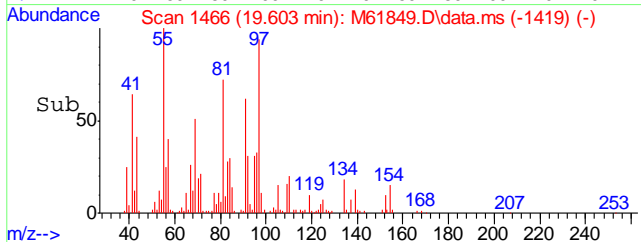
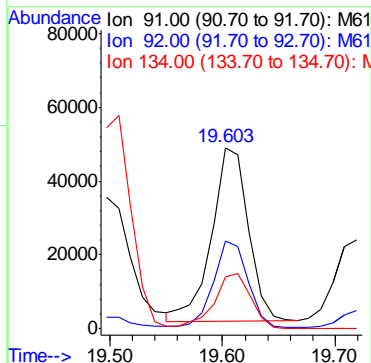
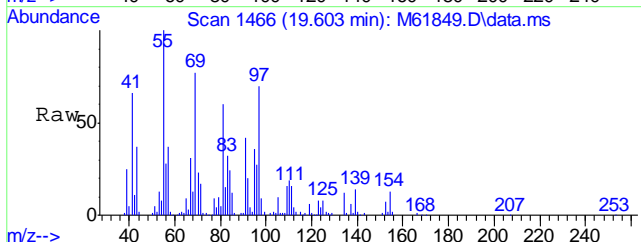
Tgt Ion	Resp	Lower	Upper
105	544470	100	
134	20.0	0.0	38.7





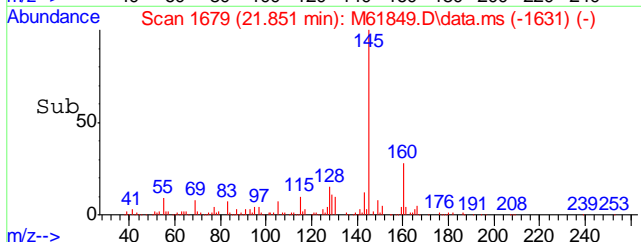
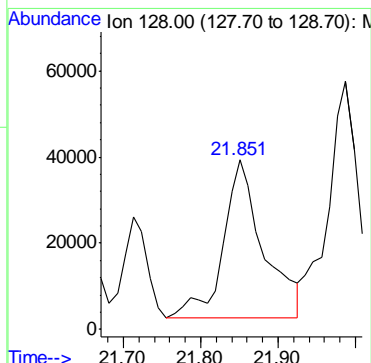
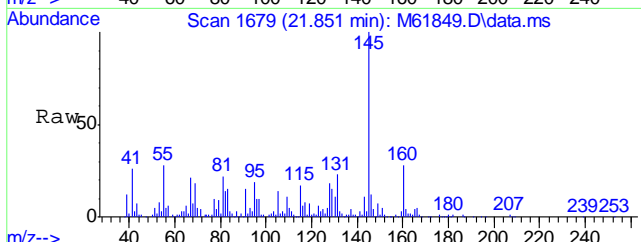
#92
 n-Butylbenzene
 Concen: 3.60 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

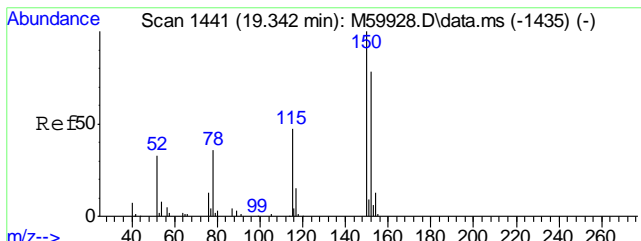
Tgt Ion	Resp	Lower	Upper
91	107531		
92	47.9	35.3	75.3
134	32.2	3.6	43.6



#97
 Naphthalene
 Concen: 5.77 ppb
 RT: 21.851 min Scan# 1679
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

Tgt Ion	Resp
128	132810

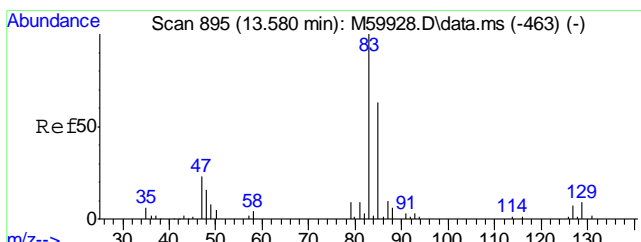
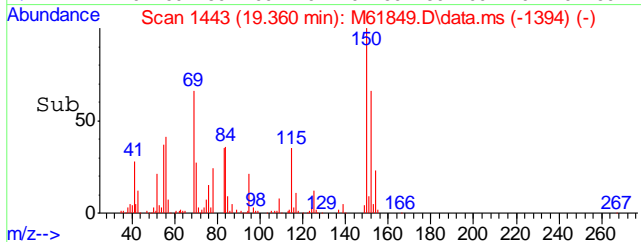
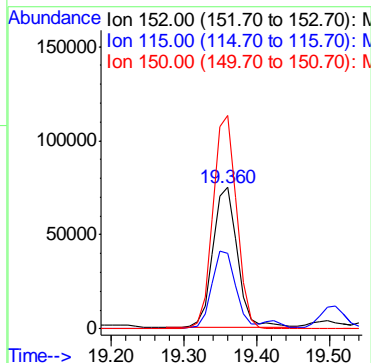
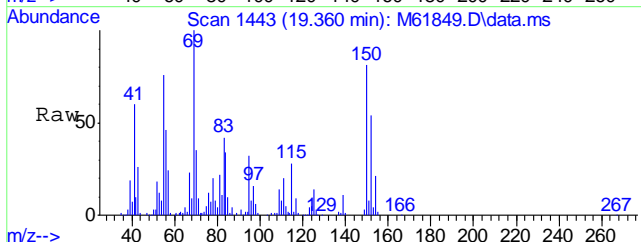




#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

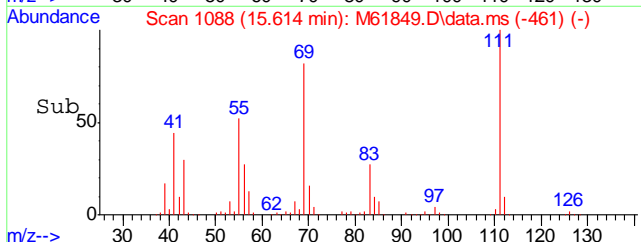
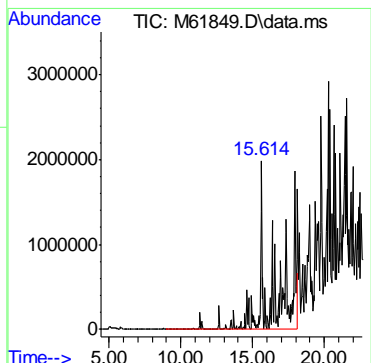
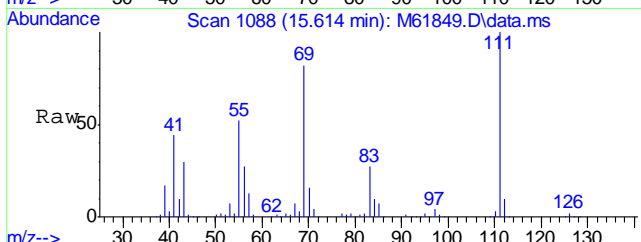
Tgt Ion: 152 Resp: 175211

Ion	Ratio	Lower	Upper
152	100		
115	55.0	37.3	77.3
150	144.8	176.0	216.0



#100
 TPH-GRO (C6-C10)
 Concen: 1463.76 ppb m
 RT: 15.614 min Scan# 1088
 Delta R.T. 2.064 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

Tgt Ion: TIC Resp: 68552710



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61849.D
Acq On : 13 Jul 2016 9:28 pm
Operator : johannat
Sample : C46446-5
Misc : MS1912,VM1859,5.92,,100,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 03 18:24:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, and 1,4-Dichlorobenzene-d4A.

System Monitoring Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Dev(Min). Includes Dibromofluoromethane and Toluene-d8 with spiked amounts and recovery percentages.

Target Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Qvalue. Lists various benzene derivatives and TPH-GRO (C6-C10).

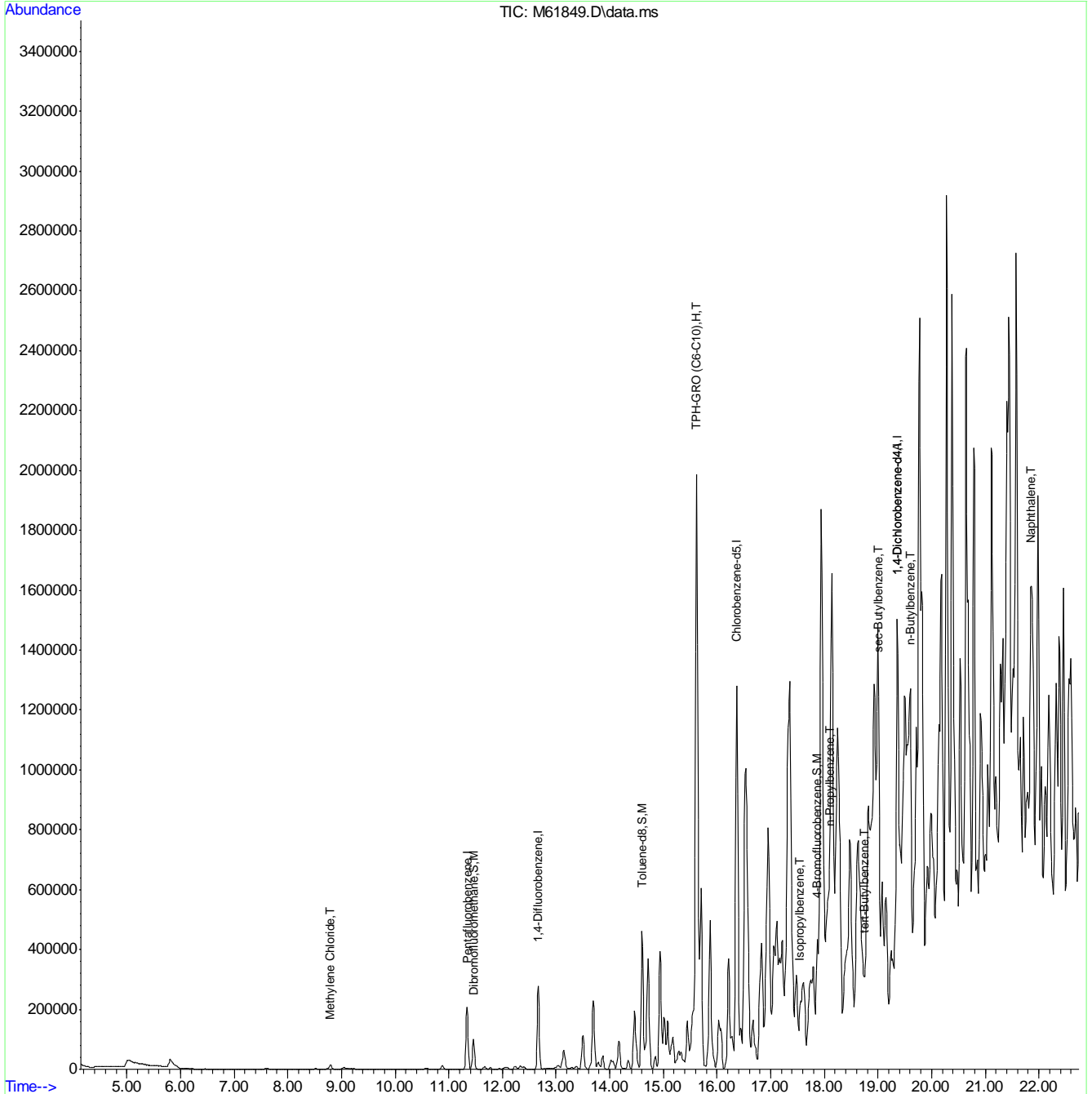
(#) = qualifier out of range (m) = manual integration (+) = signals summed

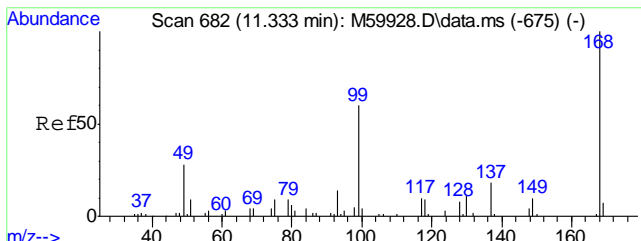
6.1.10 6

Quantitation Report (QT Reviewed)

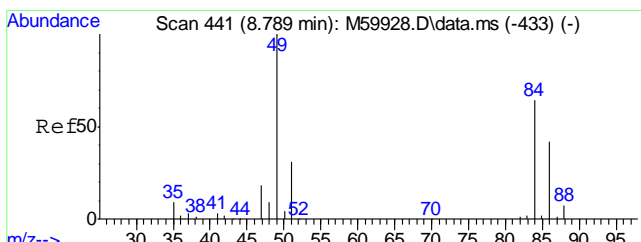
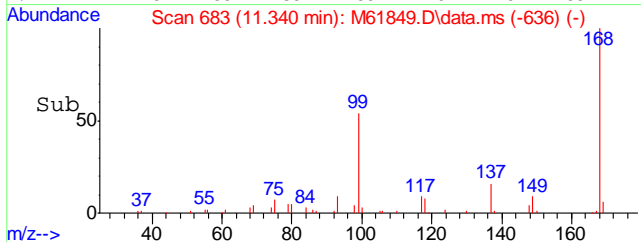
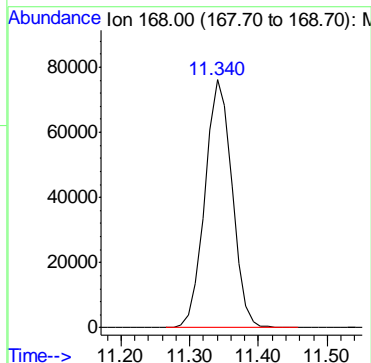
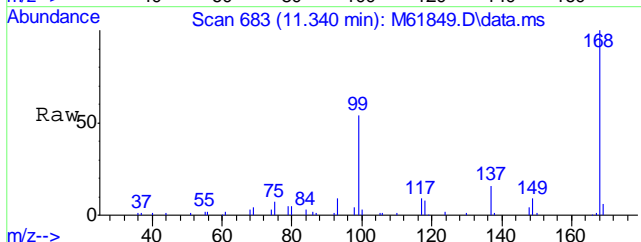
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61849.D
Acq On : 13 Jul 2016 9:28 pm
Operator : johannat
Sample : C46446-5
Misc : MS1912,VM1859,5.92,,100,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 03 18:24:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

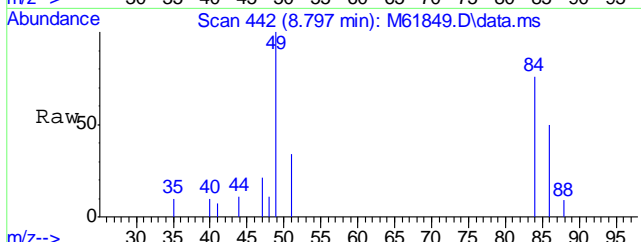




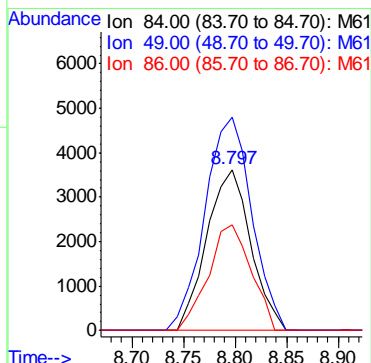
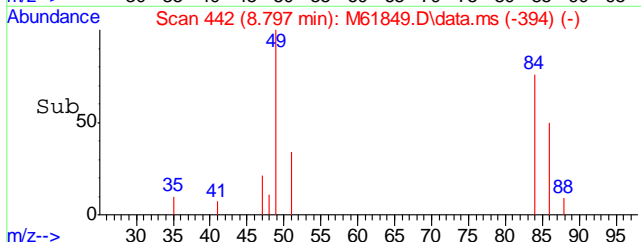
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.340 min Scan# 683
 Delta R.T. -0.003 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm
 Tgt Ion:168 Resp: 208853

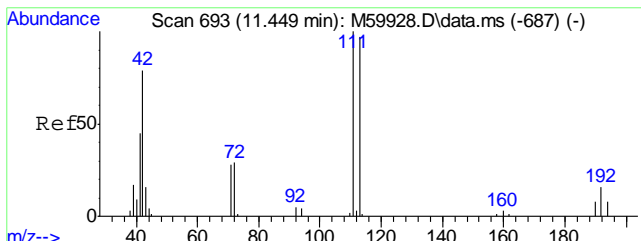


#19
 Methylene Chloride
 Concen: 1.45 ppb
 RT: 8.797 min Scan# 442
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm
 Tgt Ion: 84 Resp: 10730



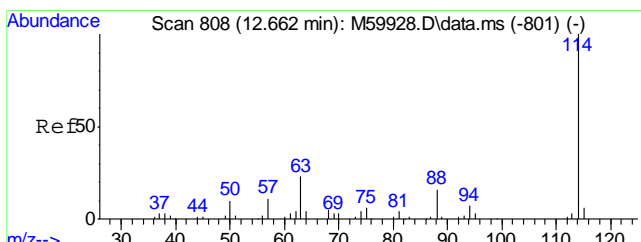
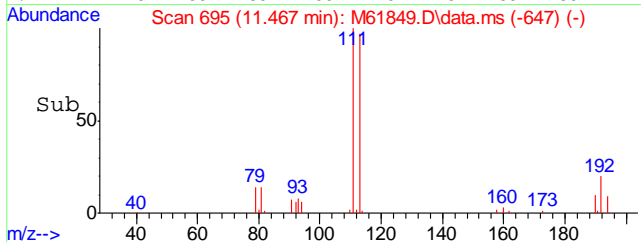
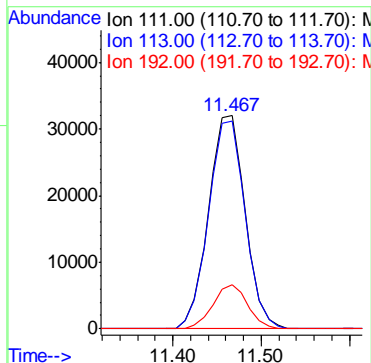
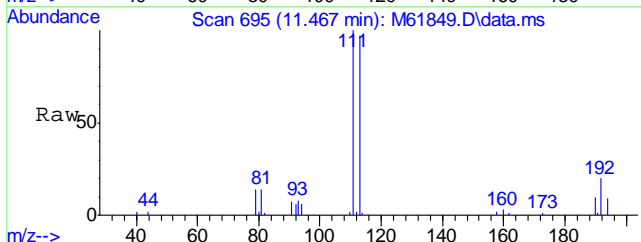
Ion	Ratio	Lower	Upper
84	100		
49	140.9	134.5	174.5
86	63.8	43.8	83.8





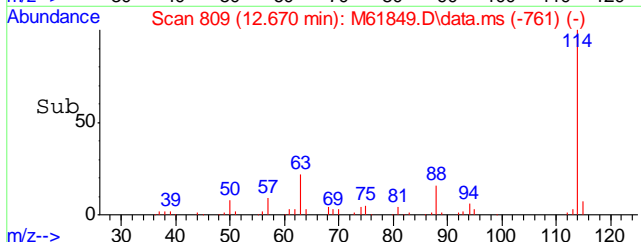
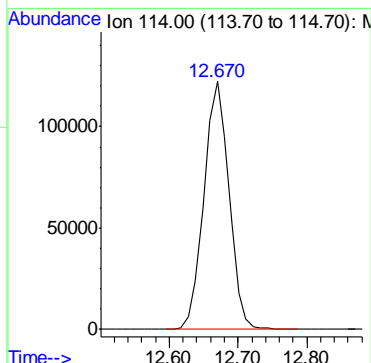
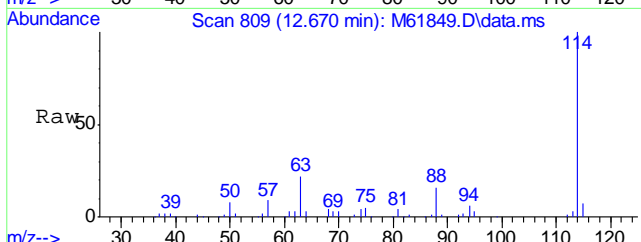
#36
 Dibromofluoromethane
 Concen: 17.43 ppb
 RT: 11.467 min Scan# 695
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

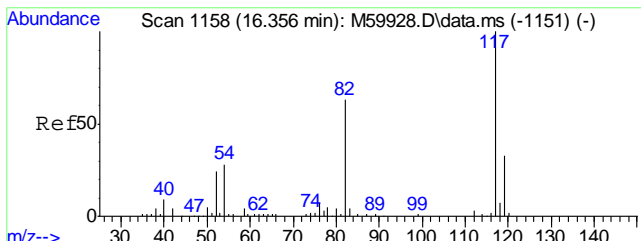
Tgt Ion	Resp	Lower	Upper
111	92296	100	
113	97.6	77.7	117.7
192	19.4	0.0	36.3



#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.670 min Scan# 809
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

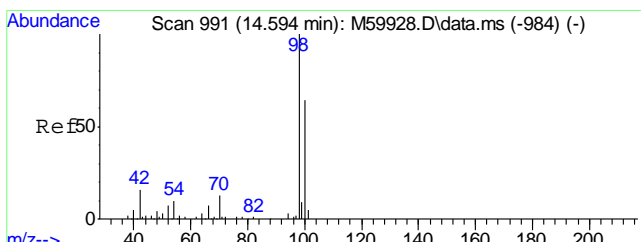
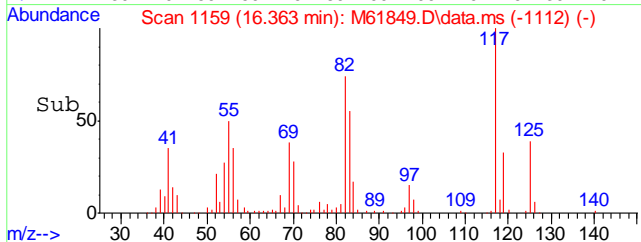
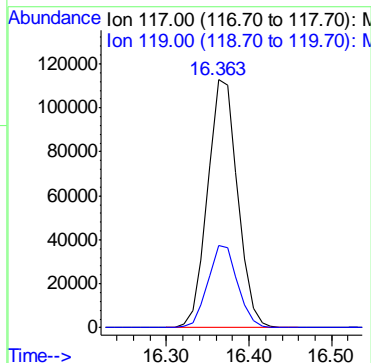
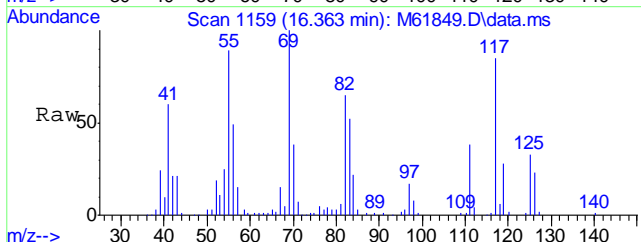
Tgt Ion:114 Resp: 310148





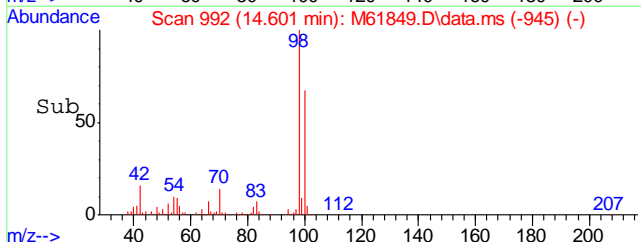
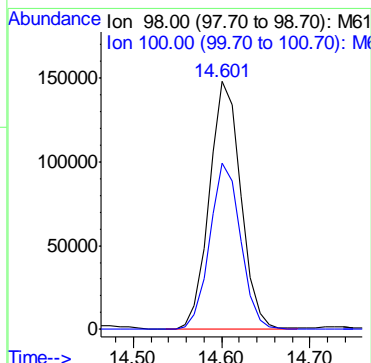
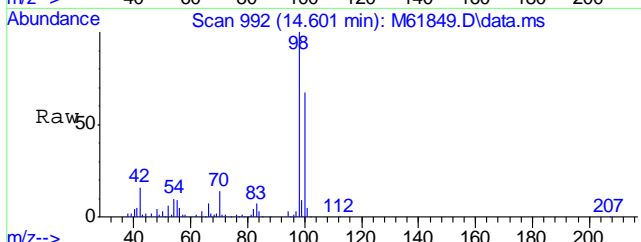
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.363 min Scan# 1159
Delta R.T. -0.003 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

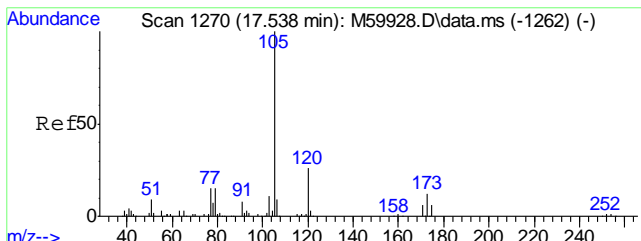
Tgt Ion	Resp	Lower	Upper
117	285879	100	
119	32.9	11.2	51.2



#56
Toluene-d8
Concen: 19.59 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

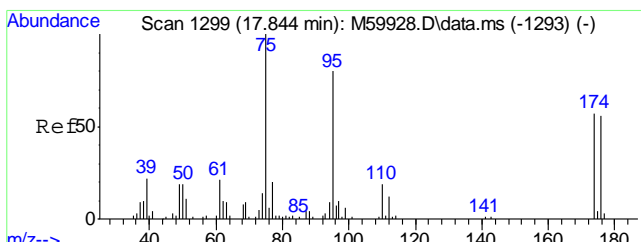
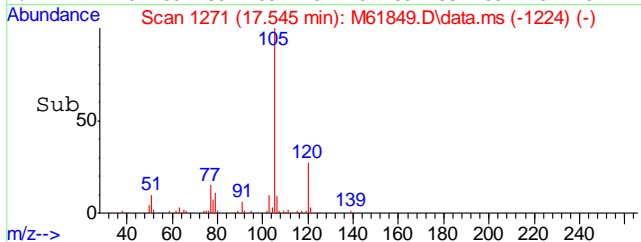
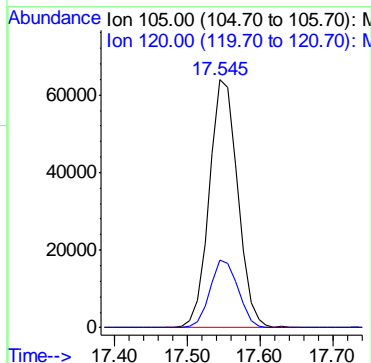
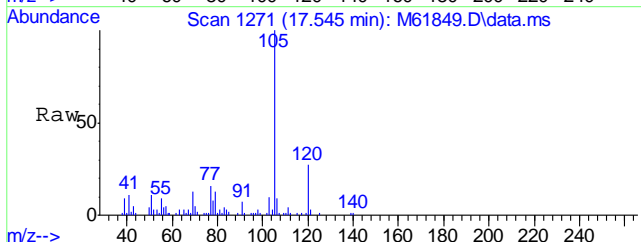
Tgt Ion	Resp	Lower	Upper
98	365527	100	
100	65.6	44.3	84.3





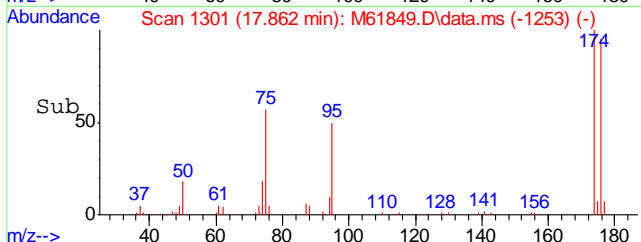
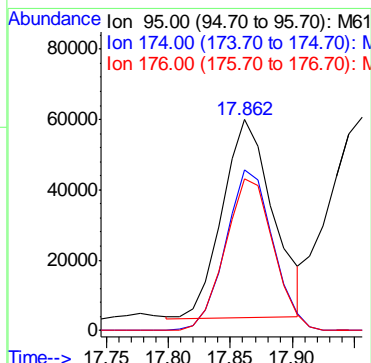
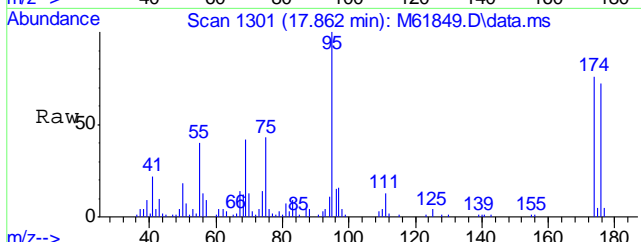
#73
Isopropylbenzene
Concen: 6.24 ppb
RT: 17.545 min Scan# 1271
Delta R.T. -0.003 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

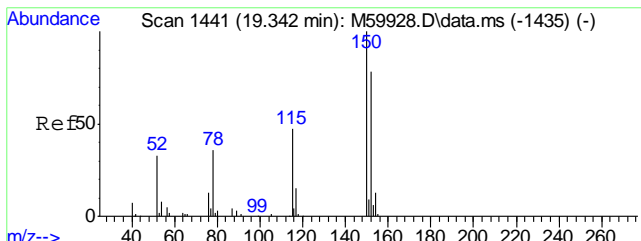
Tgt Ion	Resp	Lower	Upper
105	172710	100	
120	27.1	5.7	45.7



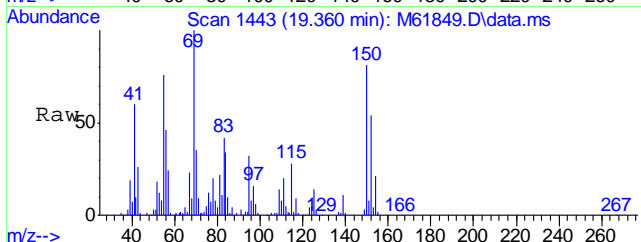
#74
4-Bromofluorobenzene
Concen: 22.12 ppb
RT: 17.862 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm

Tgt Ion	Resp	Lower	Upper
95	162253	100	
174	75.3	54.3	94.3
176	72.6	51.5	91.5

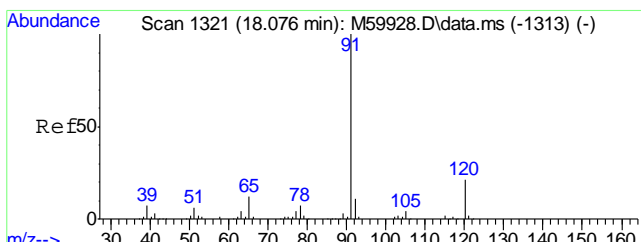
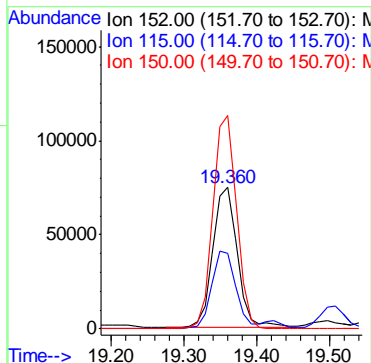
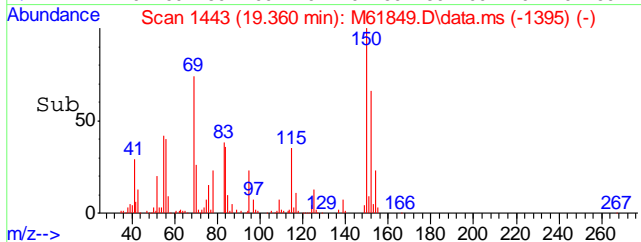




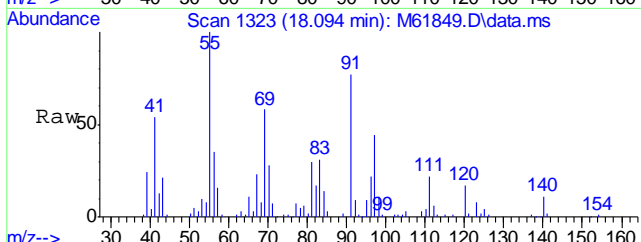
#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.360 min Scan# 1443
Delta R.T. 0.007 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm



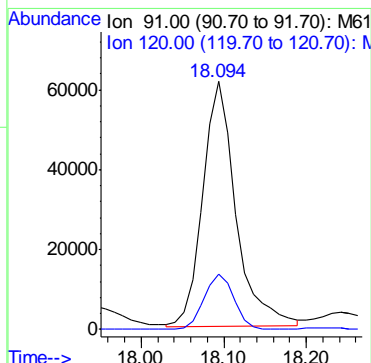
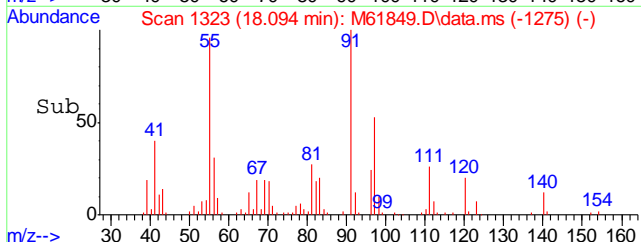
Tgt Ion	Resp	Lower	Upper
152	175211		
152	100		
115	55.0	40.9	80.9
150	144.8	178.6	218.6#

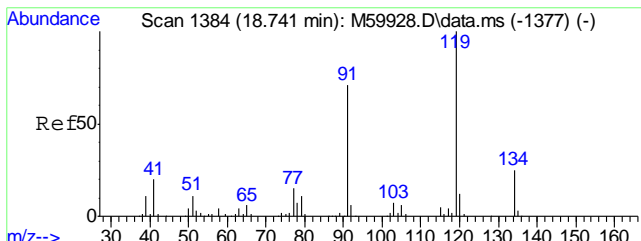


#79
n-Propylbenzene
Concen: 4.15 ppb
RT: 18.094 min Scan# 1323
Delta R.T. 0.007 min
Lab File: M61849.D
Acq: 13 Jul 2016 9:28 pm



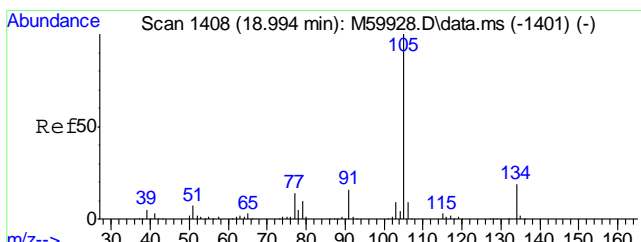
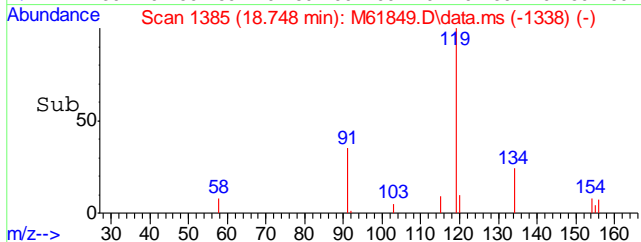
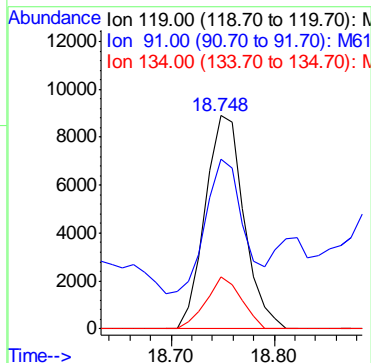
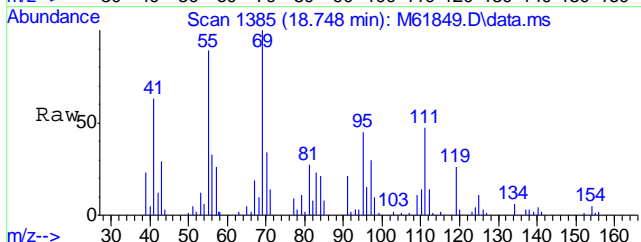
Tgt Ion	Resp	Lower	Upper
91	171798		
91	100		
120	20.3	1.3	41.3





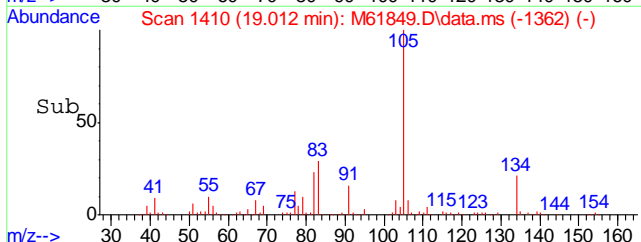
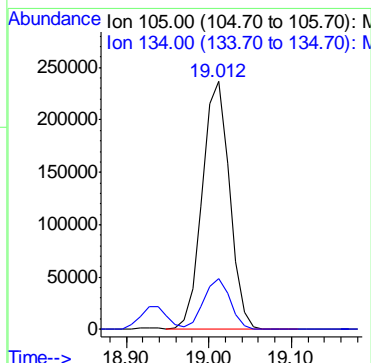
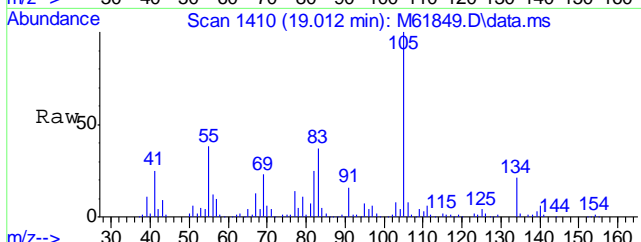
#84
 tert-Butylbenzene
 Concen: 0.87 ppb
 RT: 18.748 min Scan# 1385
 Delta R.T. -0.003 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

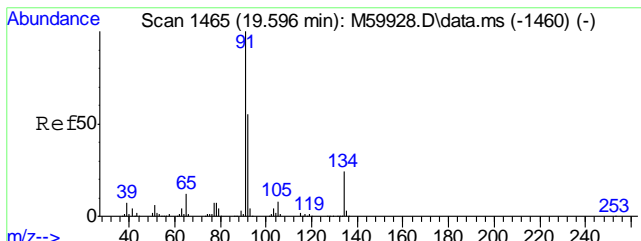
Tgt Ion	Resp	Lower	Upper
119	23150	100	
91	67.4	54.6	94.6
134	22.0	0.4	40.4



#87
 sec-Butylbenzene
 Concen: 15.19 ppb
 RT: 19.012 min Scan# 1410
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

Tgt Ion	Resp	Lower	Upper
105	544470	100	
134	20.0	0.0	38.7

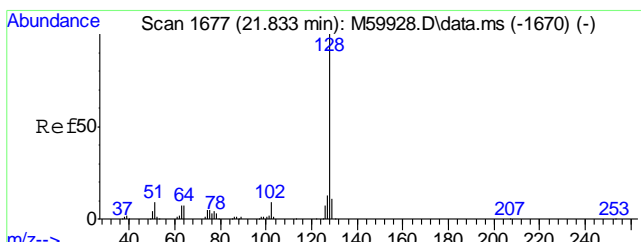
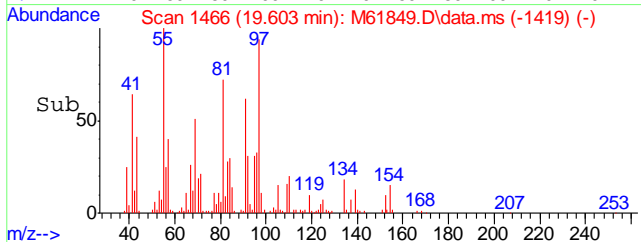
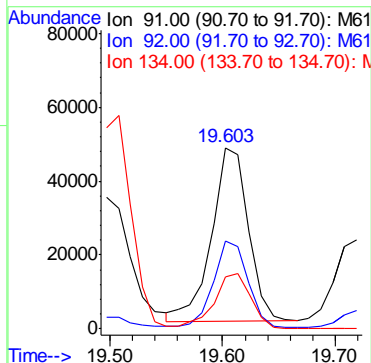
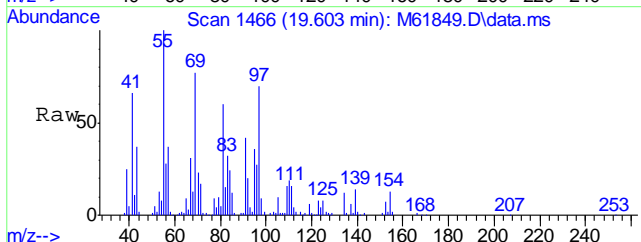




#92
 n-Butylbenzene
 Concen: 3.60 ppb
 RT: 19.603 min Scan# 1466
 Delta R.T. -0.003 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

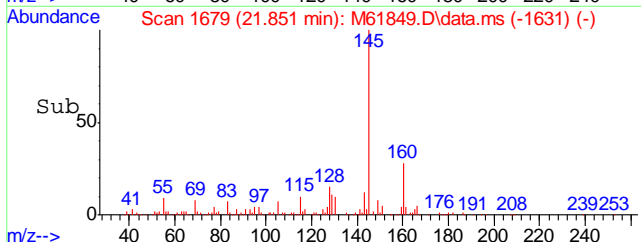
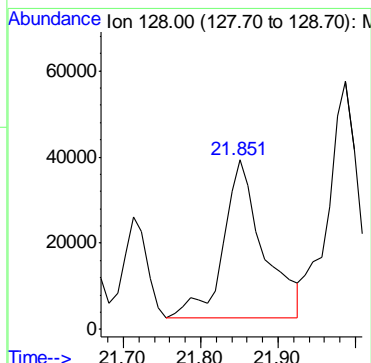
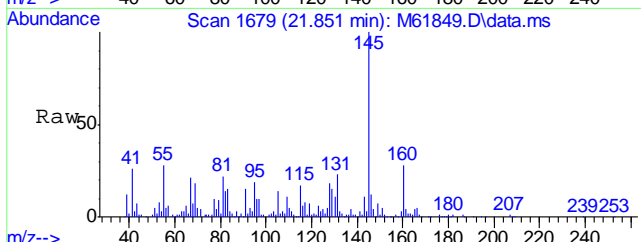
Tgt Ion: 91 Resp: 107531

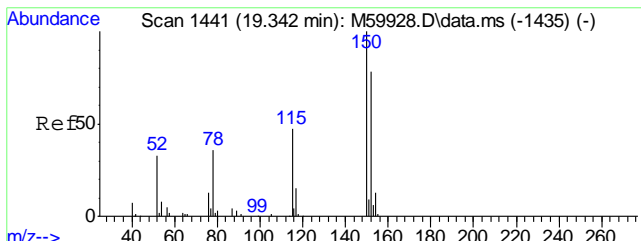
Ion	Ratio	Lower	Upper
91	100		
92	47.9	35.3	75.3
134	32.2	3.6	43.6



#97
 Naphthalene
 Concen: 5.77 ppb
 RT: 21.851 min Scan# 1679
 Delta R.T. 0.007 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

Tgt Ion: 128 Resp: 132810

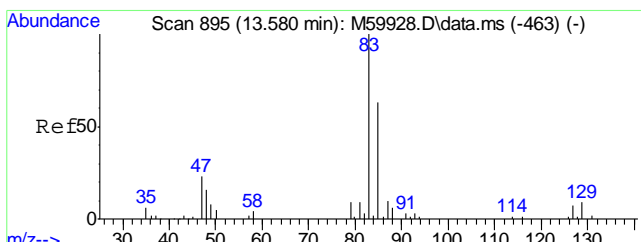
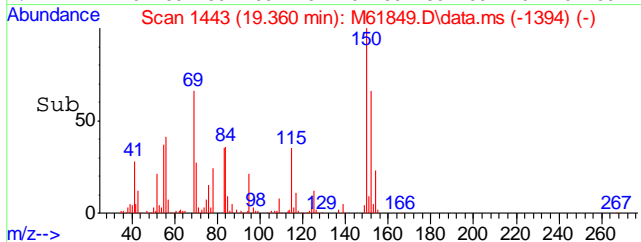
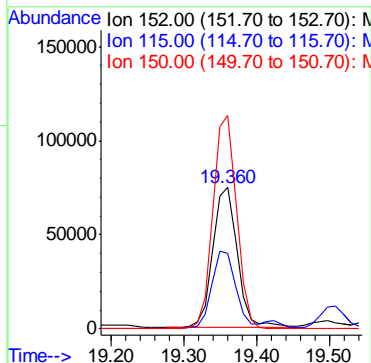
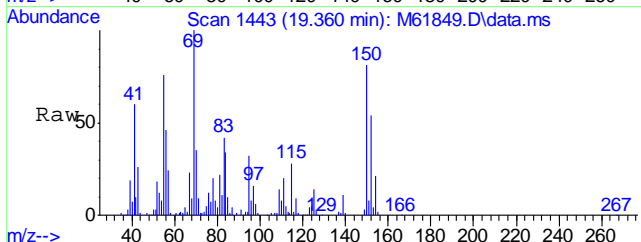




#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

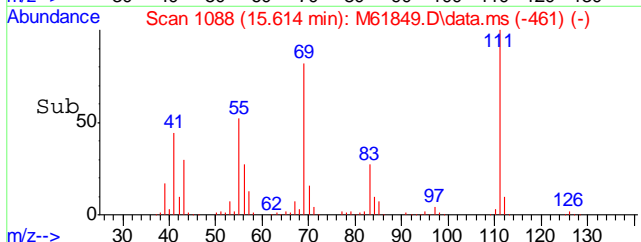
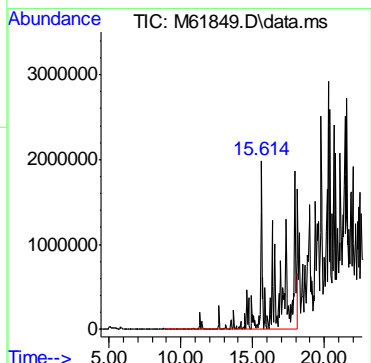
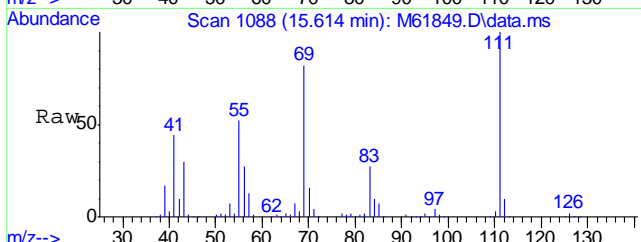
Tgt Ion:152 Resp: 175211

Ion	Ratio	Lower	Upper
152	100		
115	55.0	37.3	77.3
150	144.8	176.0	216.0#



#100
 TPH-GRO (C6-C10)
 Concen: 1463.76 ppb m
 RT: 15.614 min Scan# 1088
 Delta R.T. 2.064 min
 Lab File: M61849.D
 Acq: 13 Jul 2016 9:28 pm

Tgt Ion:TIC Resp:68552710



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61841.D
Acq On : 13 Jul 2016 5:31 pm
Operator : johannat
Sample : C46446-8
Misc : MS1912,VM1859,5.25,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 03 18:24:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include 1) Pentafluorobenzene, 40) 1,4-Difluorobenzene, 55) Chlorobenzene-d5, 77) 1,4-Dichlorobenzene-d4, 99) 1,4-Dichlorobenzene-d4A.

System Monitoring Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Dev(Min). Includes recovery percentages for spiked amounts.

Target Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Qvalue. Includes 19) Methylene Chloride and 100) TPH-GRO (C6-C10).

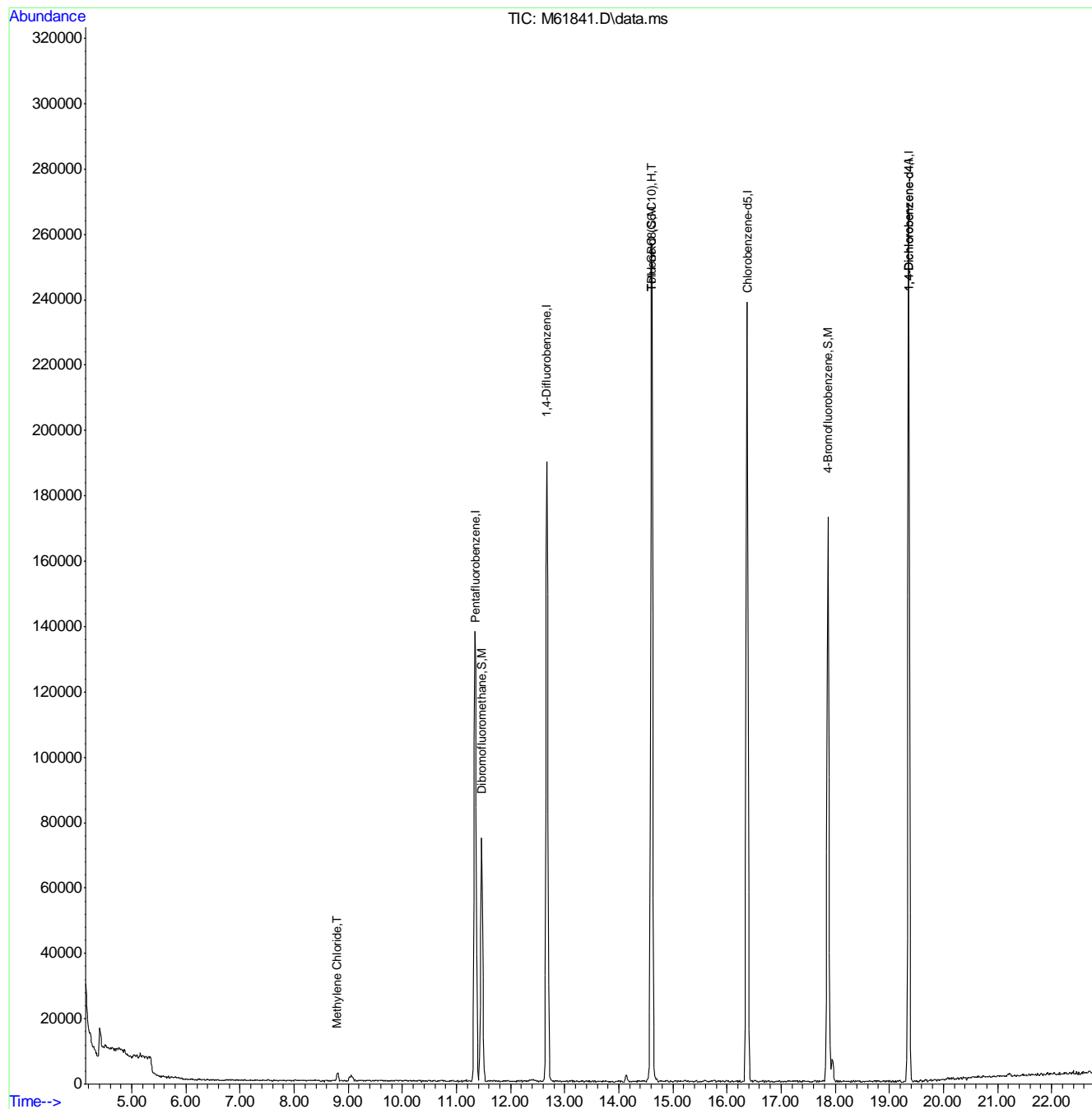
(#) = qualifier out of range (m) = manual integration (+) = signals summed

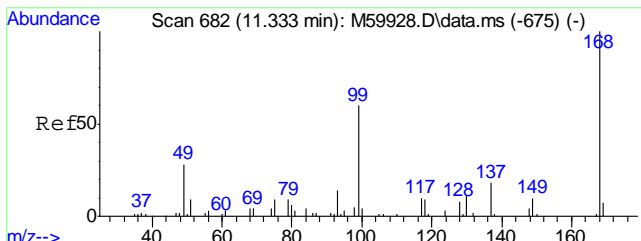
6.1.11
6

Quantitation Report (QT Reviewed)

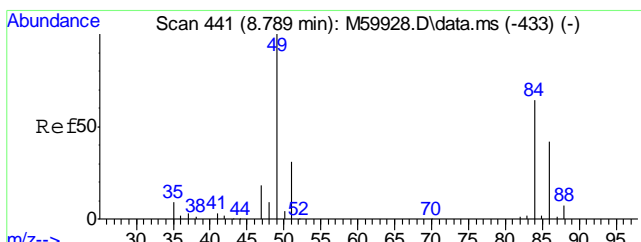
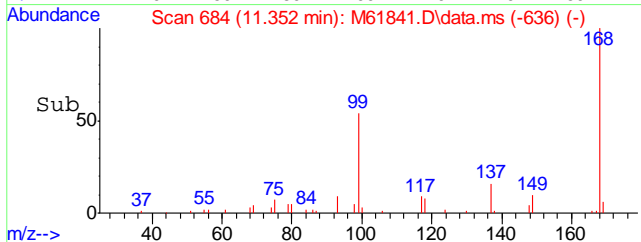
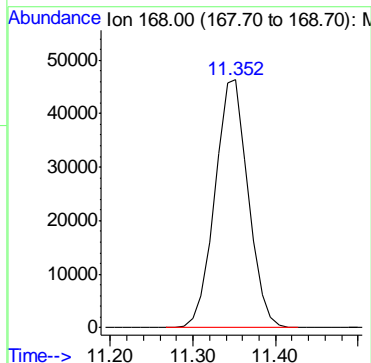
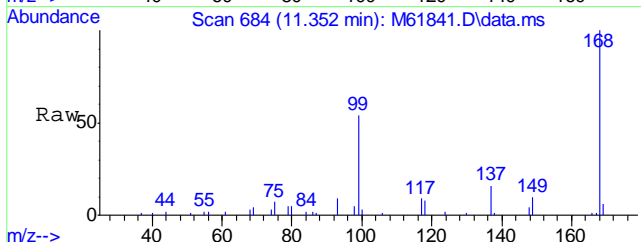
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61841.D
Acq On : 13 Jul 2016 5:31 pm
Operator : johannat
Sample : C46446-8
Misc : MS1912,VM1859,5.25,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 03 18:24:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration



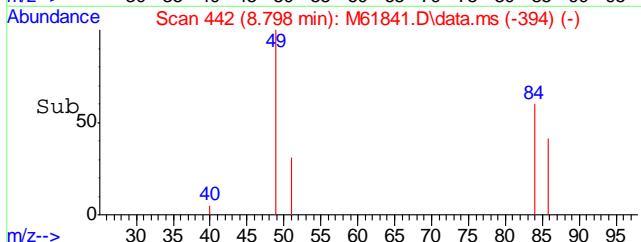
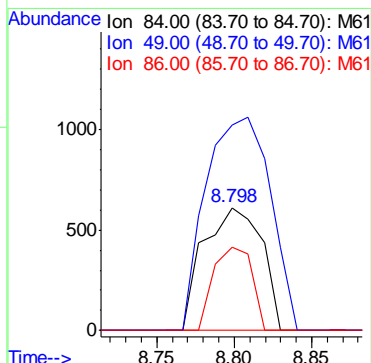
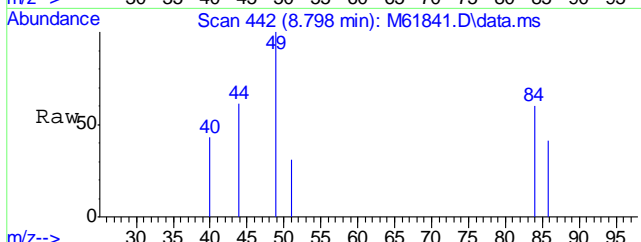


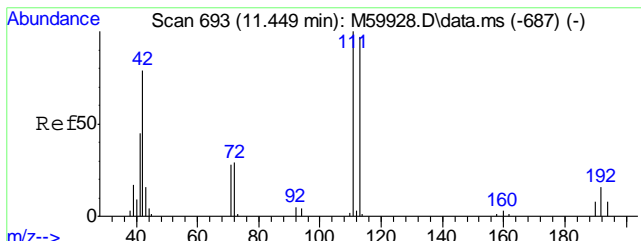
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.352 min Scan# 684
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm
 Tgt Ion:168 Resp: 129794



#19
 Methylene Chloride
 Concen: 0.35 ppb
 RT: 8.798 min Scan# 442
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm
 Tgt Ion: 84 Resp: 1591

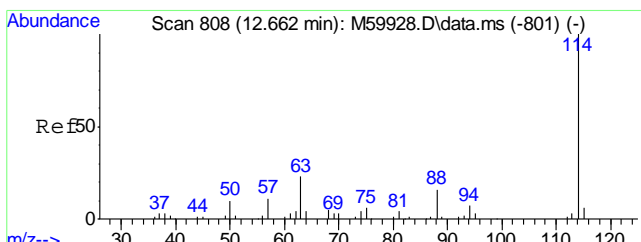
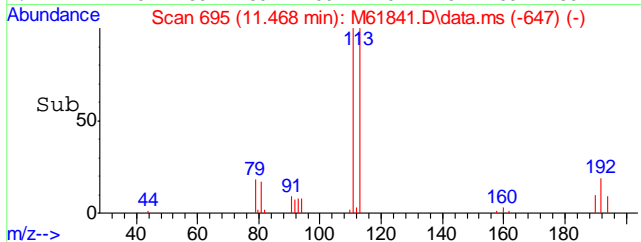
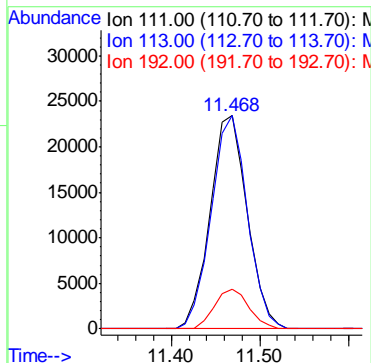
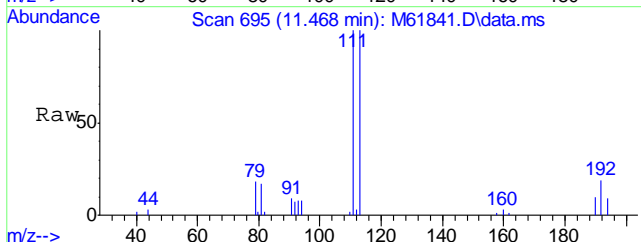
Ion	Ratio	Lower	Upper
84	100		
49	192.7	134.5	174.5#
86	0.0	43.8	83.8#





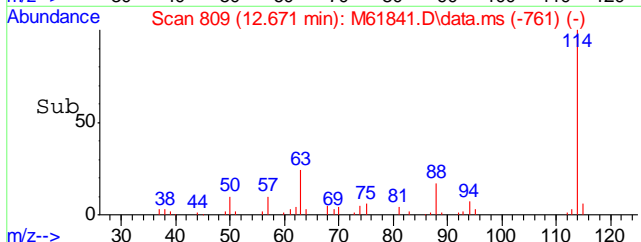
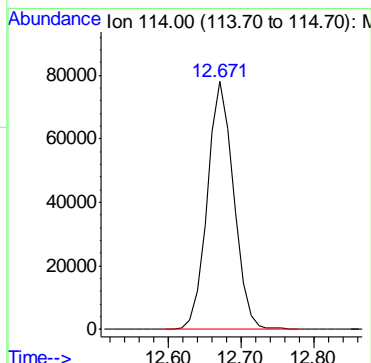
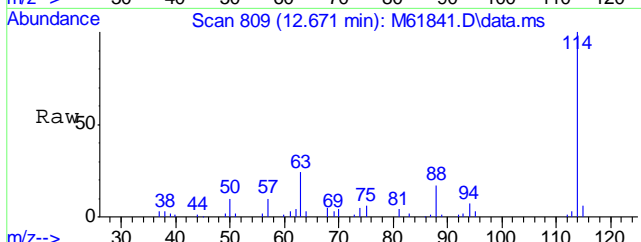
#36
 Dibromofluoromethane
 Concen: 20.74 ppb
 RT: 11.468 min Scan# 695
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm

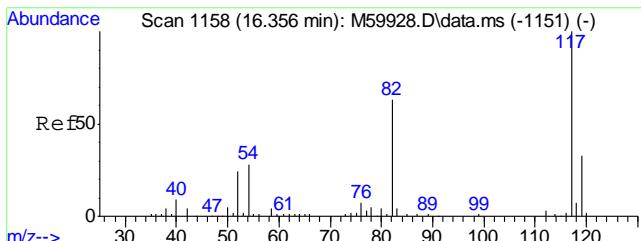
Tgt Ion	Resp	Lower	Upper
111	68241	100	
113	97.3	77.7	117.7
192	17.3	0.0	36.3



#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.671 min Scan# 809
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm

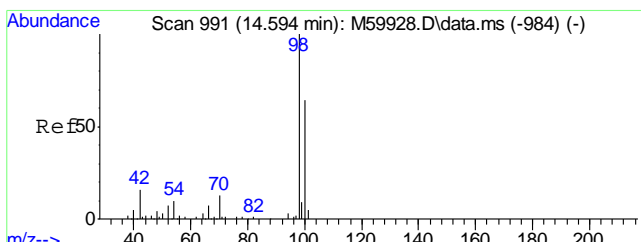
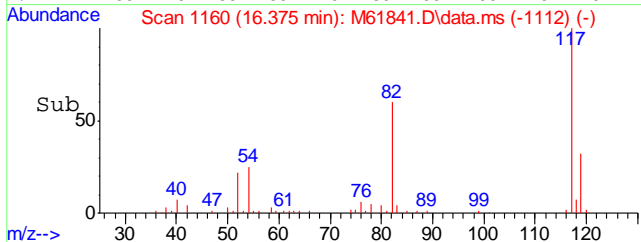
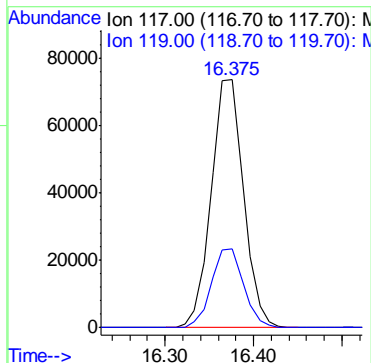
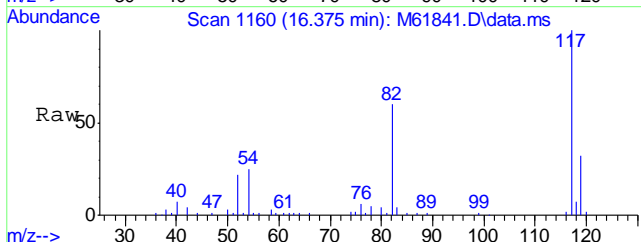
Tgt Ion: 114 Resp: 196970





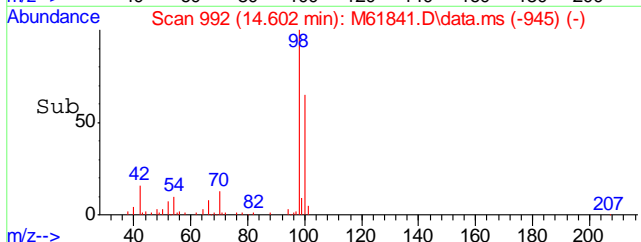
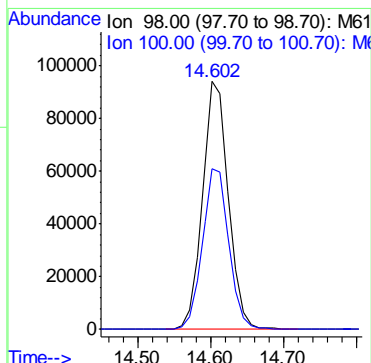
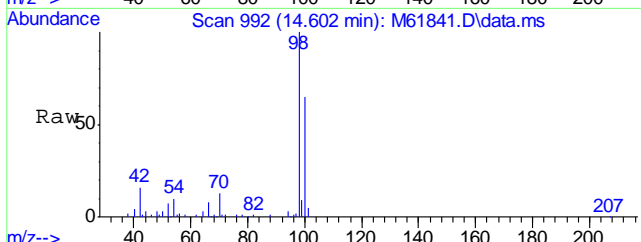
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.375 min Scan# 1160
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm

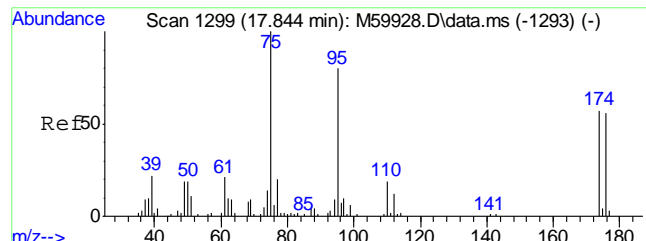
Tgt Ion	Resp	Lower	Upper
117	187494		
119	31.5	11.2	51.2



#56
 Toluene-d8
 Concen: 19.09 ppb
 RT: 14.602 min Scan# 992
 Delta R.T. -0.002 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm

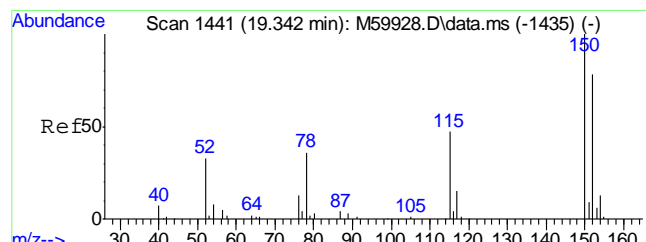
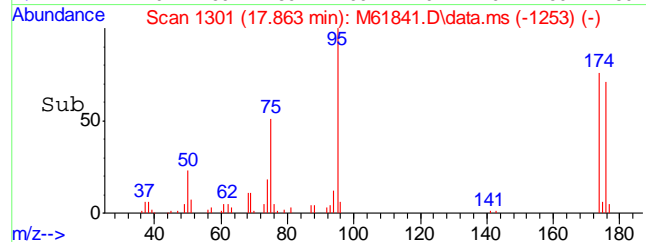
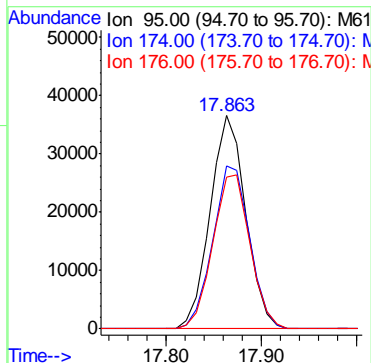
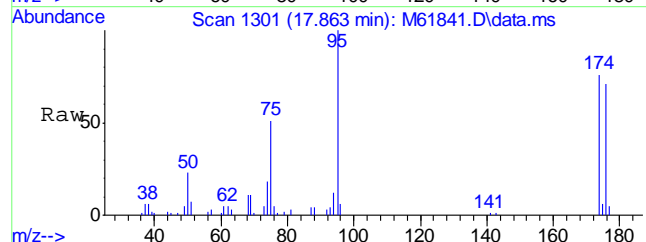
Tgt Ion	Resp	Lower	Upper
98	233565		
100	65.8	44.3	84.3





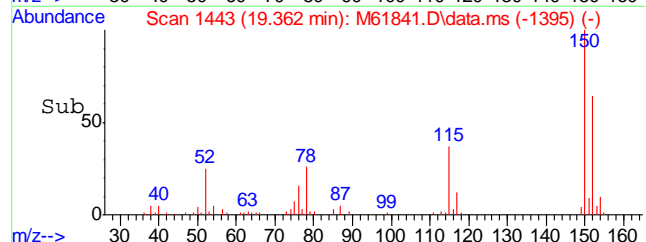
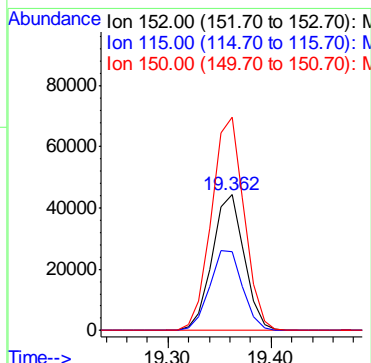
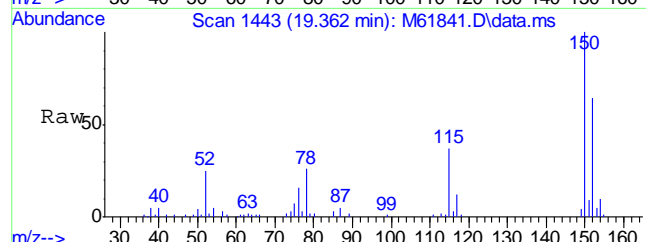
#74
4-Bromofluorobenzene
Concen: 19.60 ppb
RT: 17.863 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

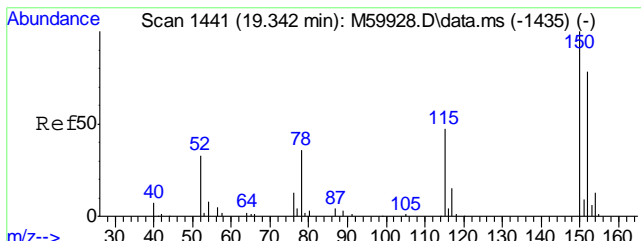
Tgt Ion	Resp	Lower	Upper
95	94313		
174	79.2	54.3	94.3
176	75.5	51.5	91.5



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.362 min Scan# 1443
Delta R.T. 0.009 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

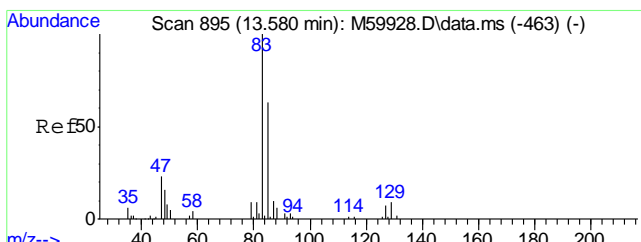
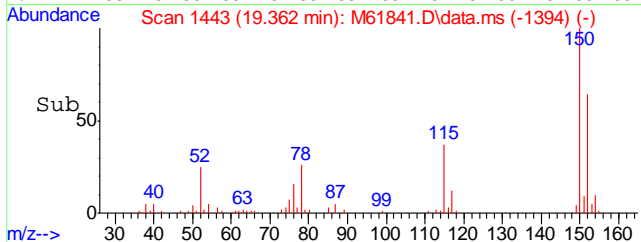
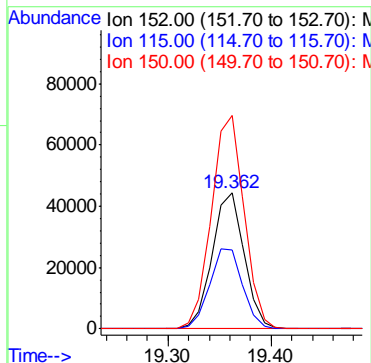
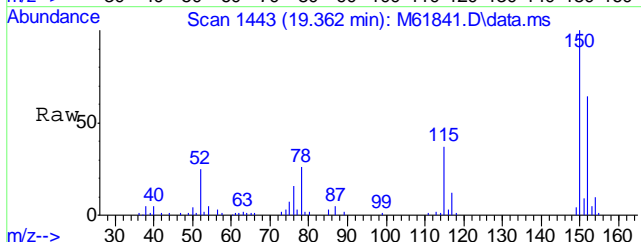
Tgt Ion	Resp	Lower	Upper
152	95836		
115	60.5	40.9	80.9
150	159.5	178.6	218.6#





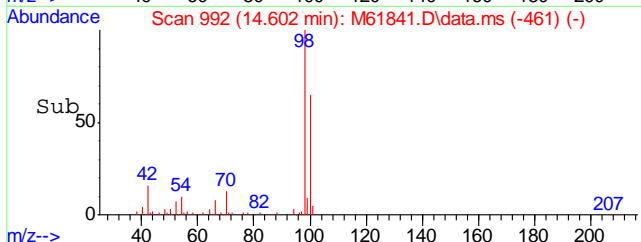
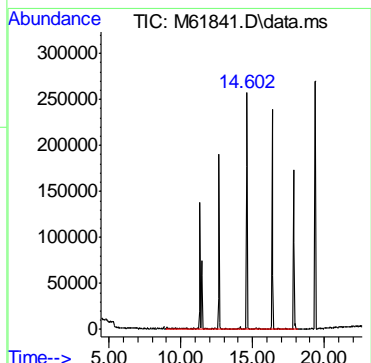
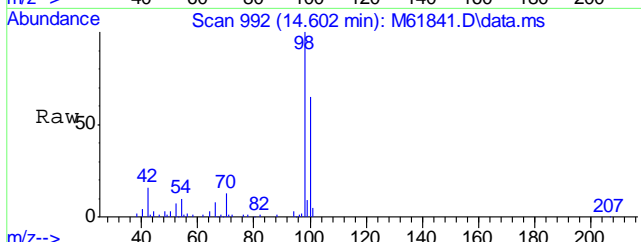
#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.362 min Scan# 1443
Delta R.T. 0.020 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	60.5	37.3	77.3
150	159.5	176.0	216.0#



#100
TPH-GRO (C6-C10)
Concen: 9.76 ppb m
RT: 14.602 min Scan# 992
Delta R.T. 1.052 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

Tgt Ion:TIC Resp: 3009394



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61841.D
Acq On : 13 Jul 2016 5:31 pm
Operator : johannat
Sample : C46446-8
Misc : MS1912,VM1859,5.25,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 03 18:24:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include 1) Pentafluorobenzene, 40) 1,4-Difluorobenzene, 55) Chlorobenzene-d5, 77) 1,4-Dichlorobenzene-d4, 99) 1,4-Dichlorobenzene-d4A.

System Monitoring Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include 36) Dibromofluoromethane and 56) Toluene-d8.

Target Compounds table with 7 columns: Compound Name, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include 19) Methylene Chloride and 100) TPH-GRO (C6-C10).

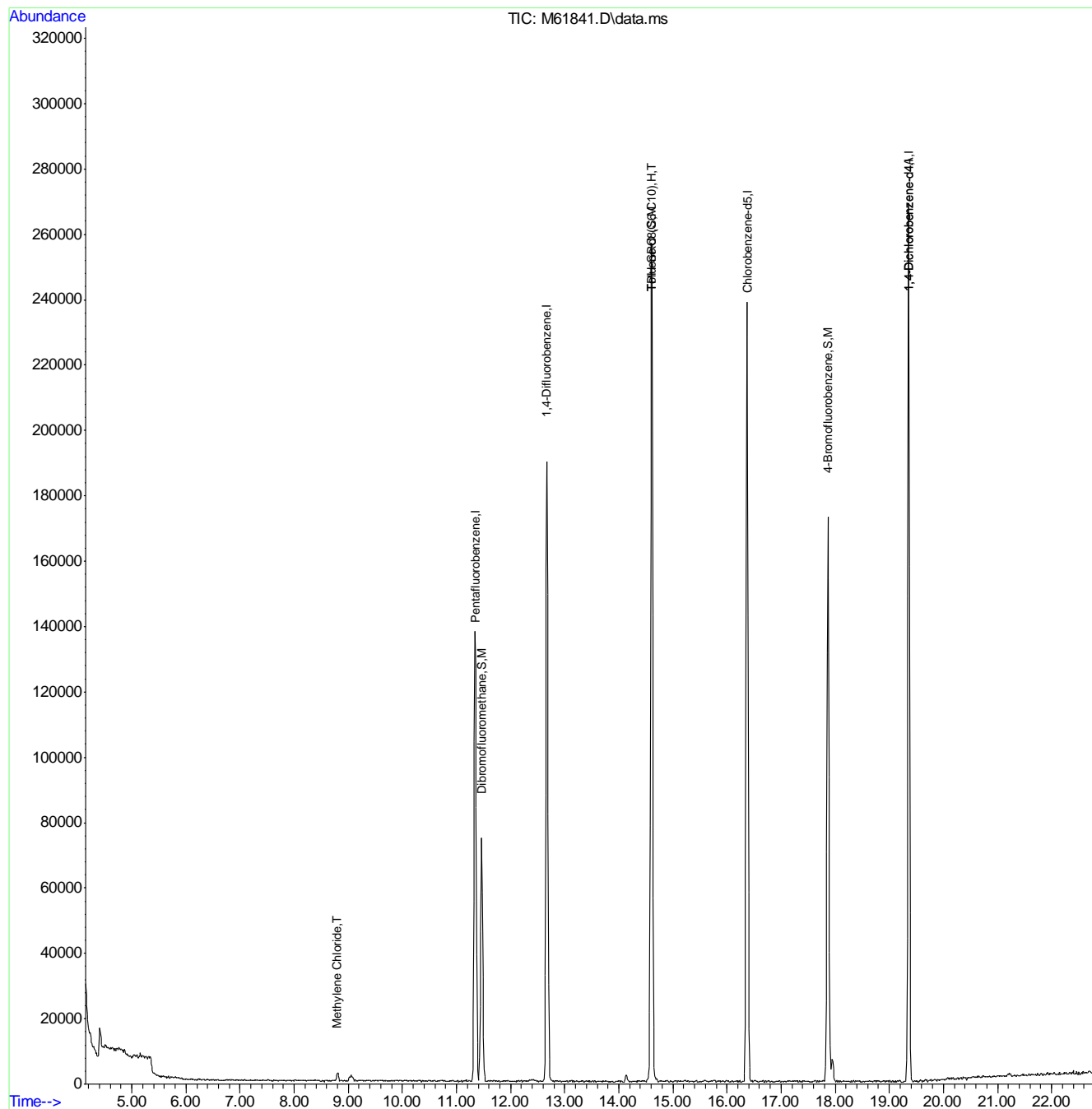
(#) = qualifier out of range (m) = manual integration (+) = signals summed

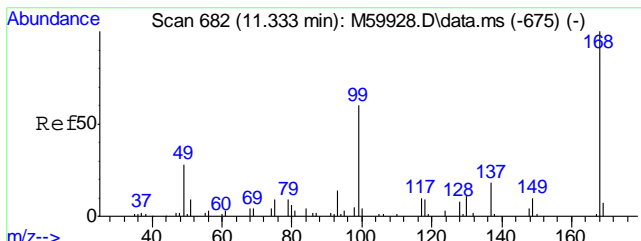
6.1.12 6

Quantitation Report (QT Reviewed)

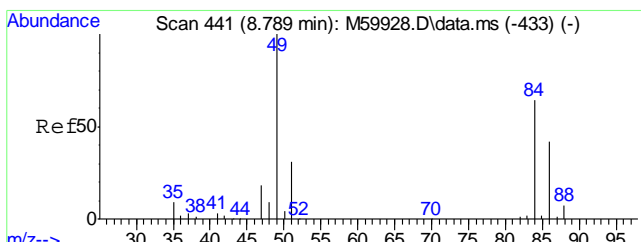
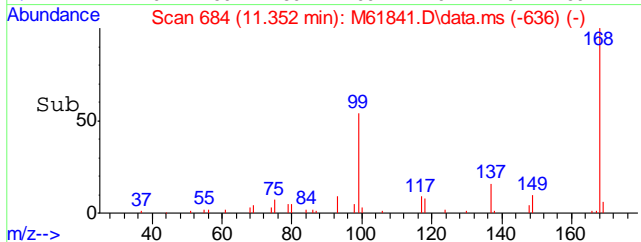
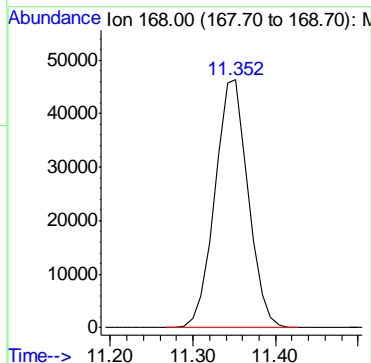
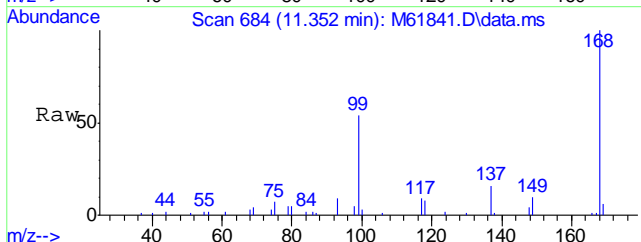
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61841.D
Acq On : 13 Jul 2016 5:31 pm
Operator : johannat
Sample : C46446-8
Misc : MS1912,VM1859,5.25,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 03 18:24:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

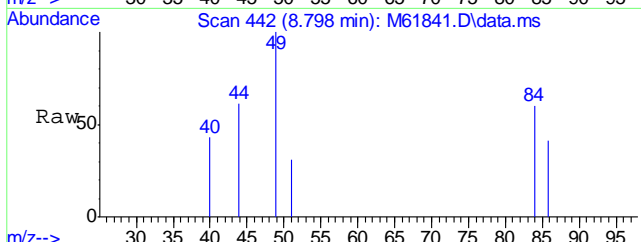




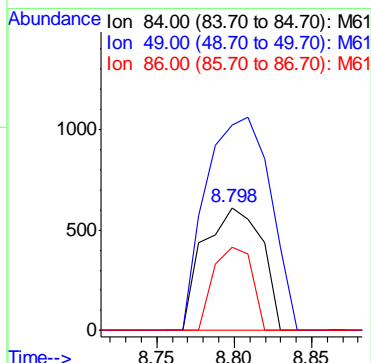
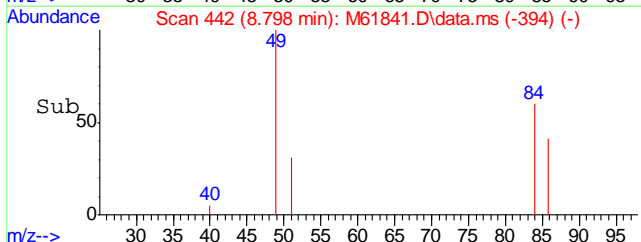
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.352 min Scan# 684
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm
 Tgt Ion:168 Resp: 129794

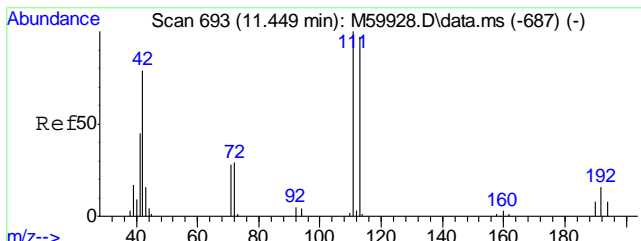


#19
 Methylene Chloride
 Concen: 0.35 ppb
 RT: 8.798 min Scan# 442
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm
 Tgt Ion: 84 Resp: 1591



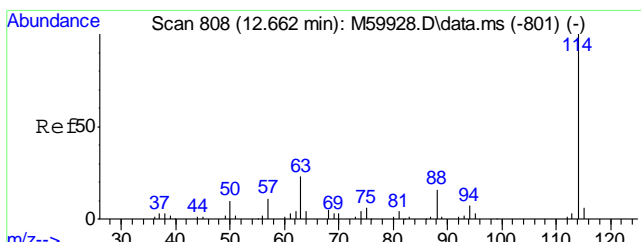
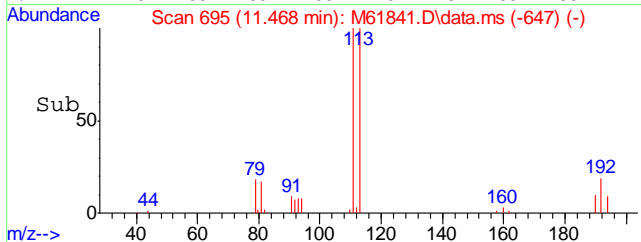
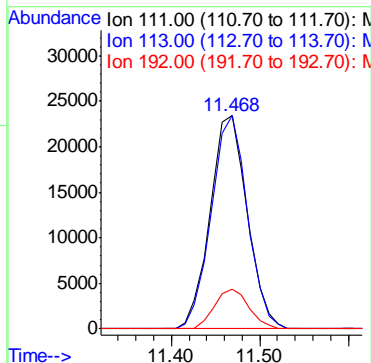
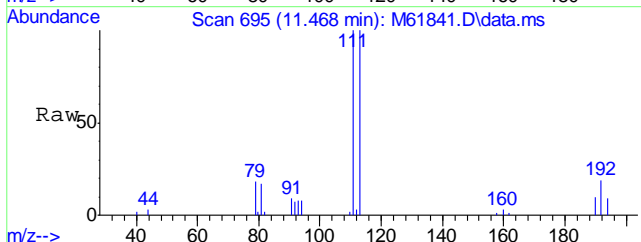
Ion	Ratio	Lower	Upper
84	100		
49	192.7	134.5	174.5#
86	0.0	43.8	83.8#





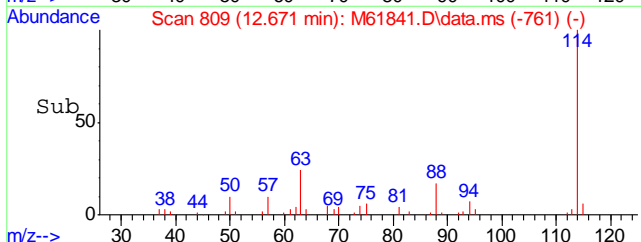
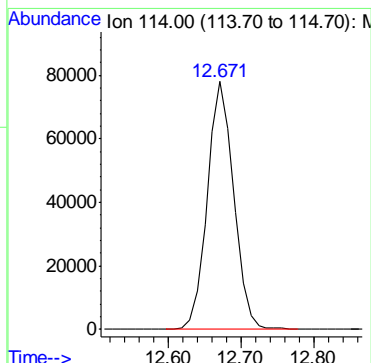
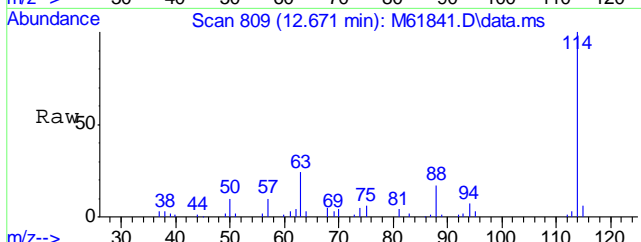
#36
 Dibromofluoromethane
 Concen: 20.74 ppb
 RT: 11.468 min Scan# 695
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm

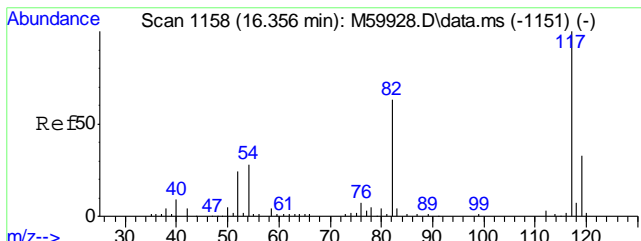
Tgt Ion	Resp	Lower	Upper
111	68241	100	
113	97.3	77.7	117.7
192	17.3	0.0	36.3



#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.671 min Scan# 809
 Delta R.T. 0.009 min
 Lab File: M61841.D
 Acq: 13 Jul 2016 5:31 pm

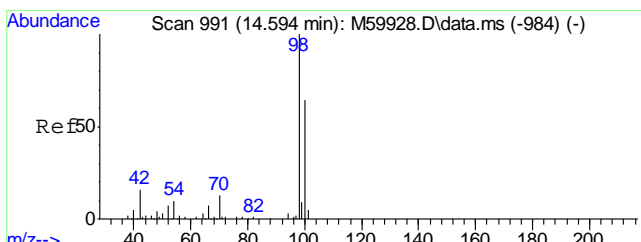
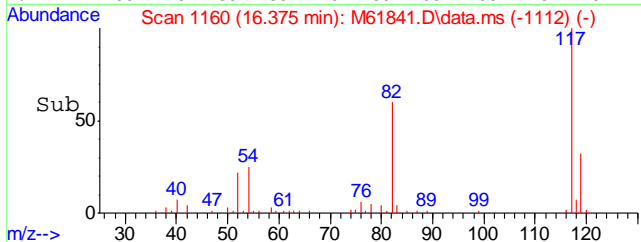
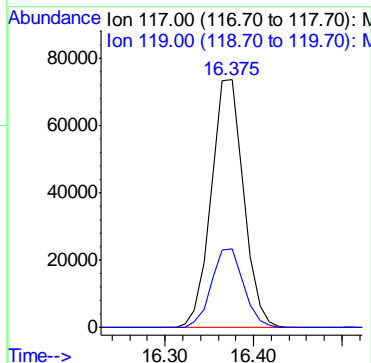
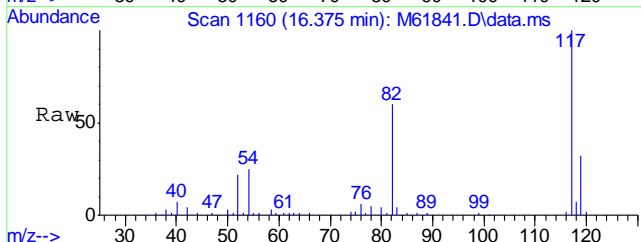
Tgt Ion	Resp
114	196970





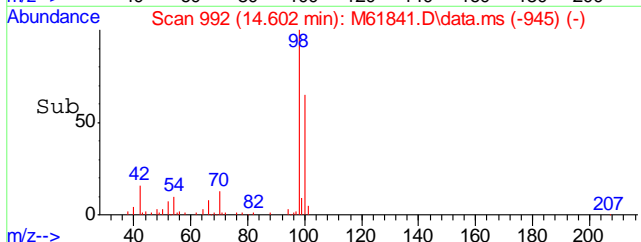
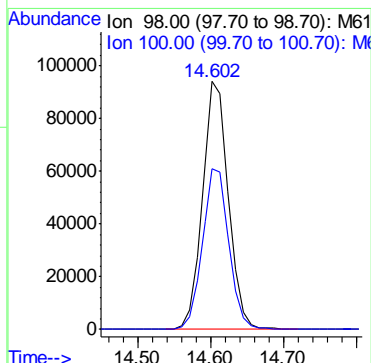
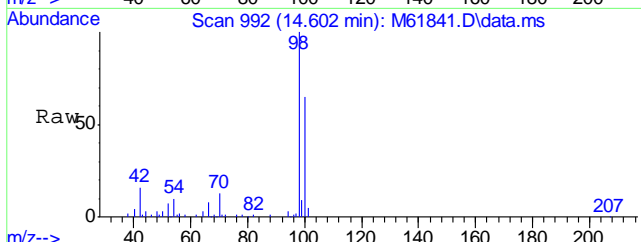
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.375 min Scan# 1160
Delta R.T. 0.009 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

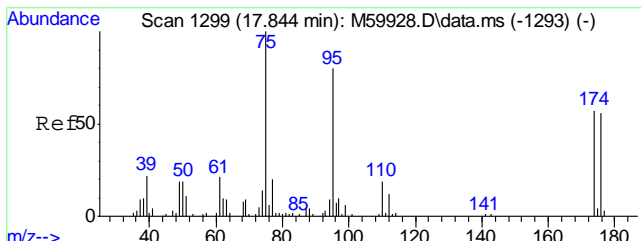
Tgt Ion	Resp	Lower	Upper
117	187494	100	
119	31.5	11.2	51.2



#56
Toluene-d8
Concen: 19.09 ppb
RT: 14.602 min Scan# 992
Delta R.T. -0.002 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

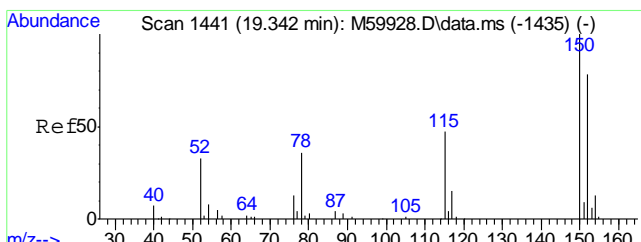
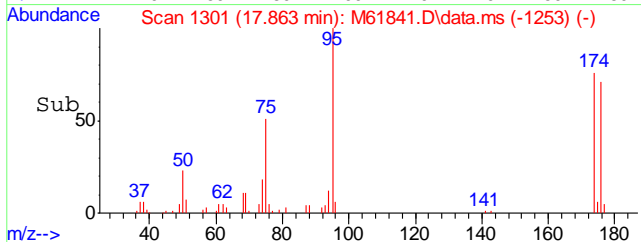
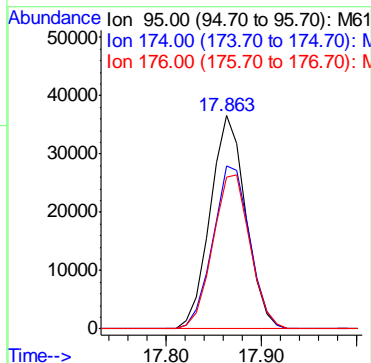
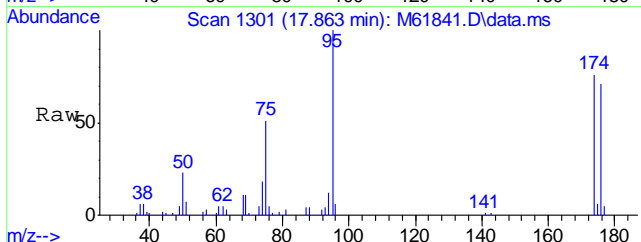
Tgt Ion	Resp	Lower	Upper
98	233565	100	
100	65.8	44.3	84.3





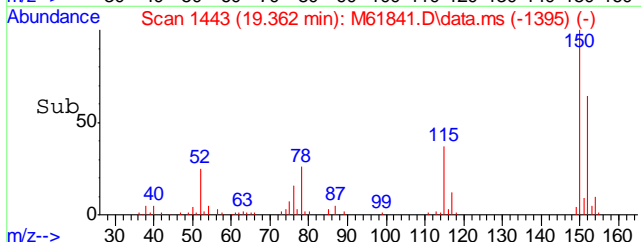
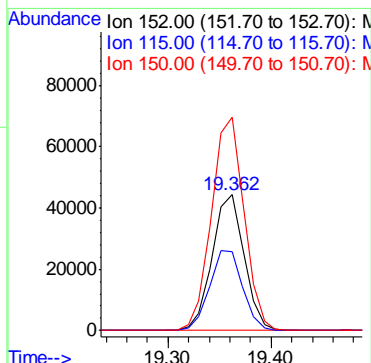
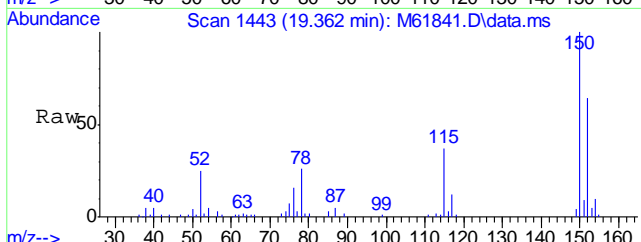
#74
4-Bromofluorobenzene
Concen: 19.60 ppb
RT: 17.863 min Scan# 1301
Delta R.T. 0.009 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

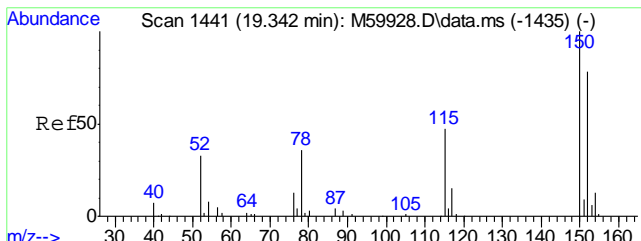
Tgt Ion	Resp	Lower	Upper
95	94313	100	
174	79.2	54.3	94.3
176	75.5	51.5	91.5



#77
1,4-Dichlorobenzene-d4
Concen: 20.00 ppb
RT: 19.362 min Scan# 1443
Delta R.T. 0.009 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

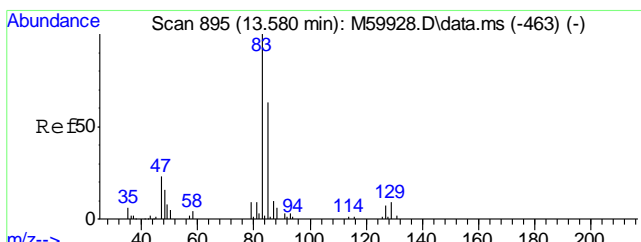
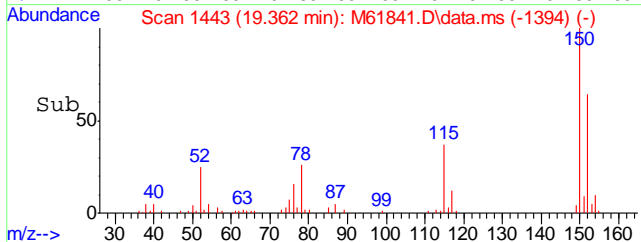
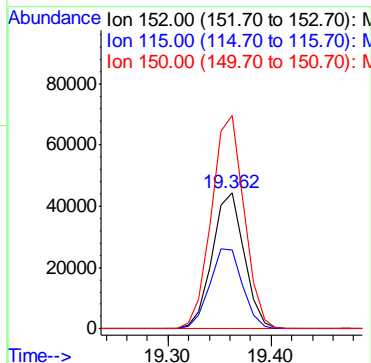
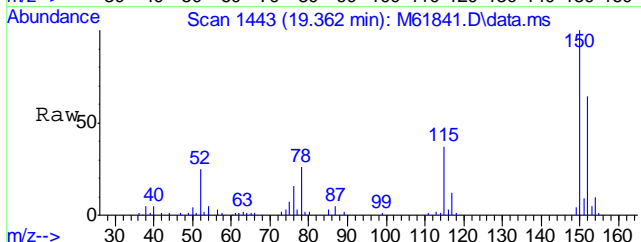
Tgt Ion	Resp	Lower	Upper
152	95836	100	
115	60.5	40.9	80.9
150	159.5	178.6	218.6#





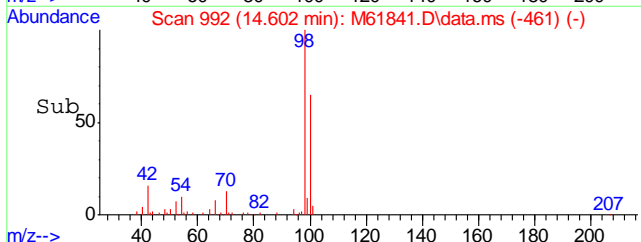
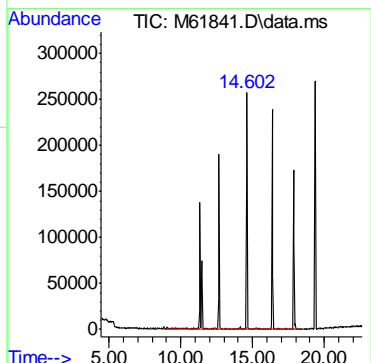
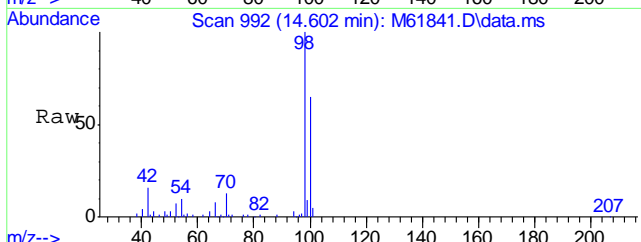
#99
1,4-Dichlorobenzene-d4A
Concen: 20.00 ppb
RT: 19.362 min Scan# 1443
Delta R.T. 0.020 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	60.5	37.3	77.3
150	159.5	176.0	216.0



#100
TPH-GRO (C6-C10)
Concen: 9.76 ppb m
RT: 14.602 min Scan# 992
Delta R.T. 1.052 min
Lab File: M61841.D
Acq: 13 Jul 2016 5:31 pm

Tgt Ion:TIC Resp: 3009394



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61837.D
Acq On : 13 Jul 2016 3:33 pm
Operator : johannat
Sample : C46446-9
Misc : MS1912,VM1859,5.24,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 18:20:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.350	168	147491	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.669	114	221089	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	212864	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	111369	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	111369	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.466	111	73983	19.78	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	98.90%		
56) Toluene-d8	14.601	98	262787	18.92	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.60%		
74) 4-Bromofluorobenzene	17.861	95	108516	19.87	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	99.35%		

Target Compounds Qvalue

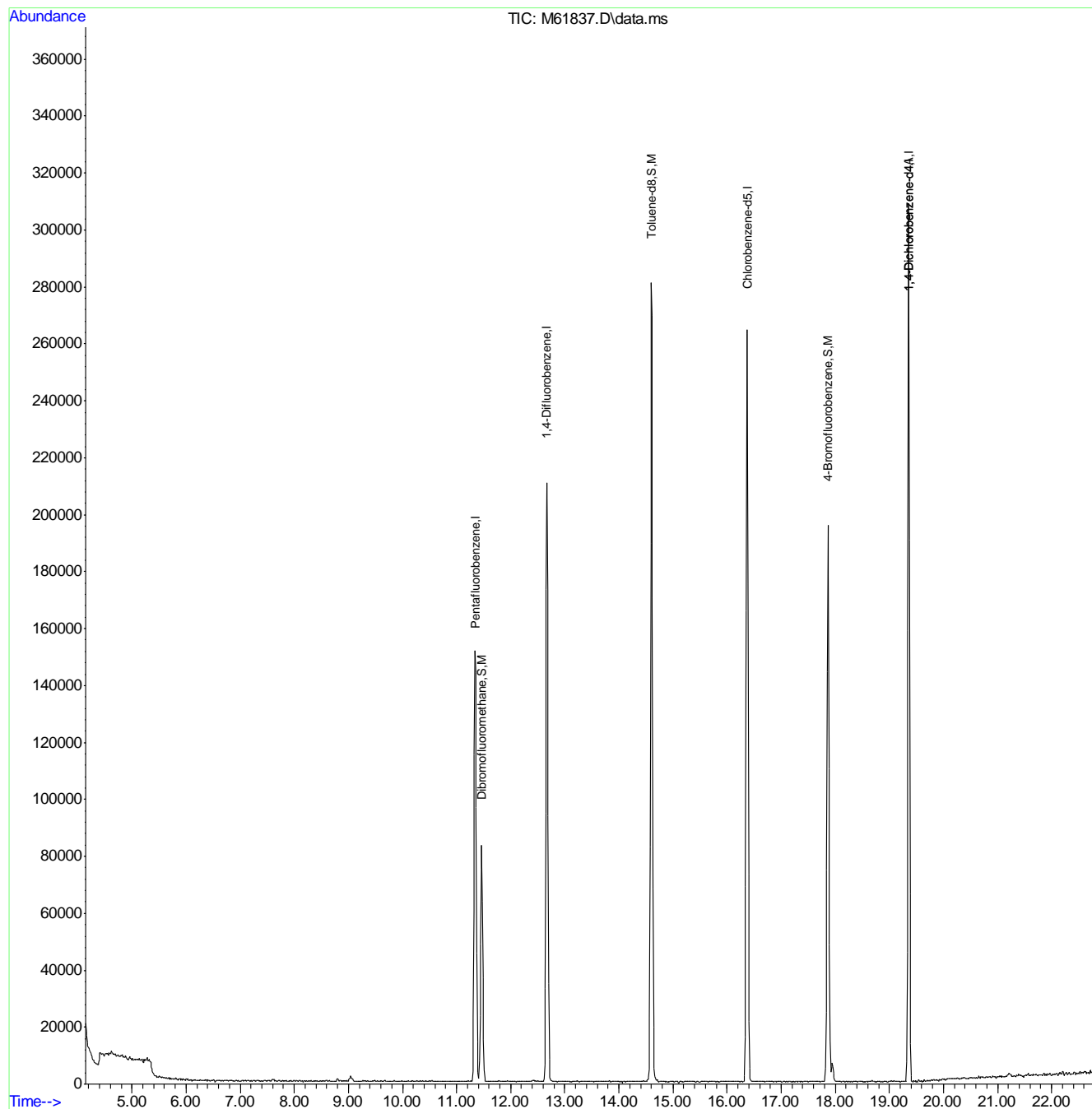
(#) = qualifier out of range (m) = manual integration (+) = signals summed

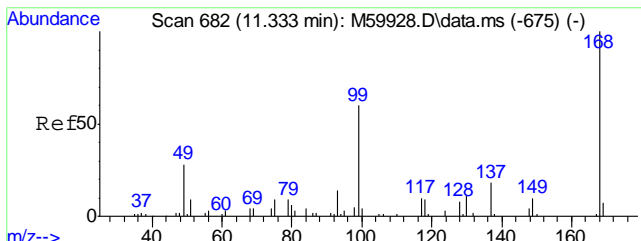
6.1.13
6

Quantitation Report (QT Reviewed)

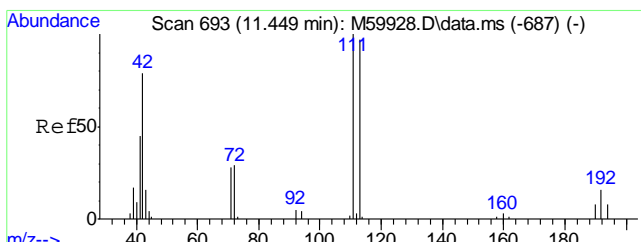
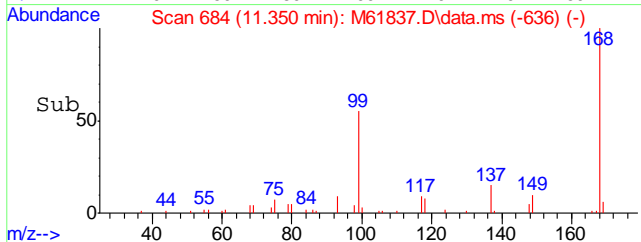
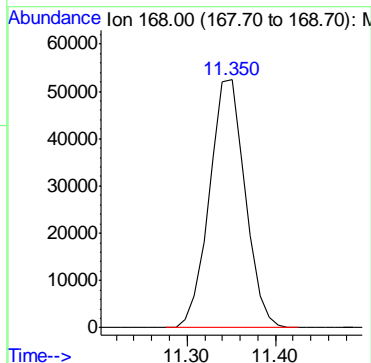
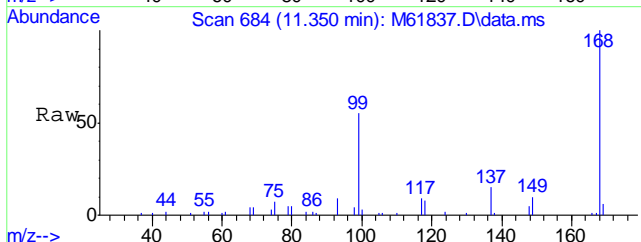
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61837.D
Acq On : 13 Jul 2016 3:33 pm
Operator : johannat
Sample : C46446-9
Misc : MS1912,VM1859,5.24,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 18:20:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

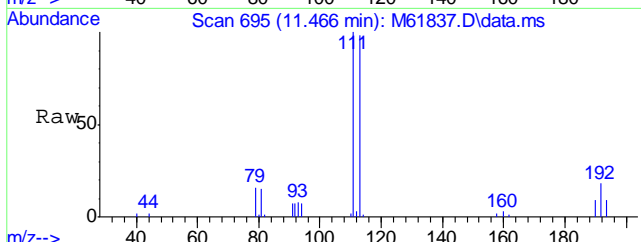




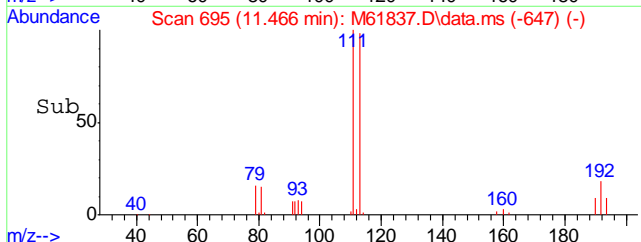
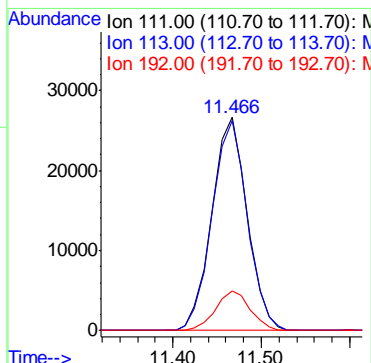
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.350 min Scan# 684
 Delta R.T. 0.007 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm
 Tgt Ion:168 Resp: 147491

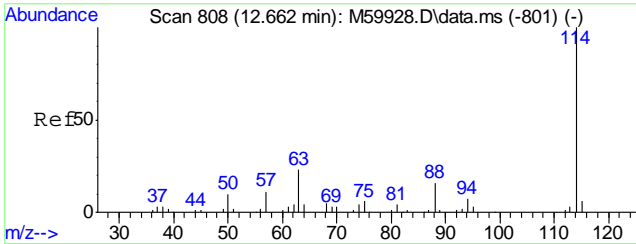


#36
 Dibromofluoromethane
 Concen: 19.78 ppb
 RT: 11.466 min Scan# 695
 Delta R.T. 0.007 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm
 Tgt Ion:111 Resp: 73983

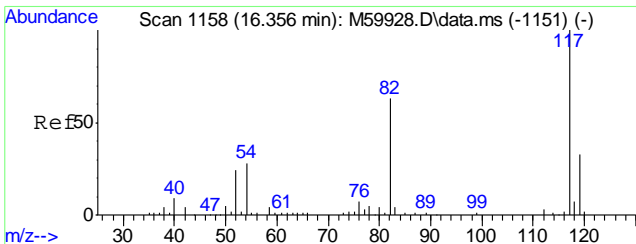
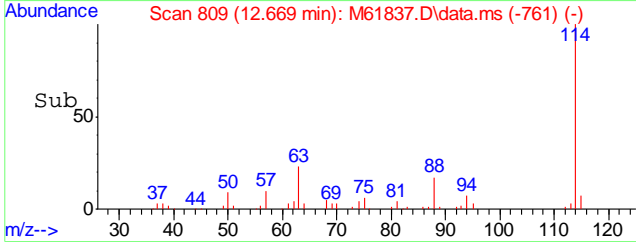
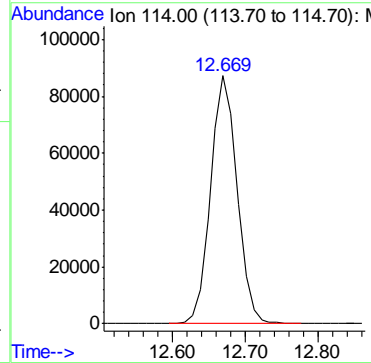
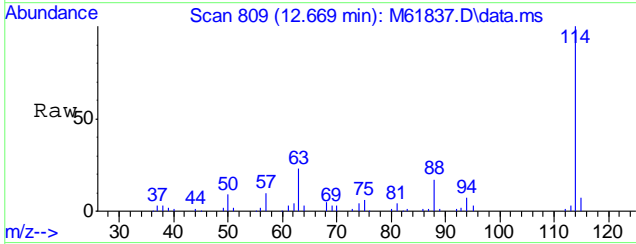


Ion	Ratio	Lower	Upper
111	100		
113	98.2	77.7	117.7
192	18.0	0.0	36.3

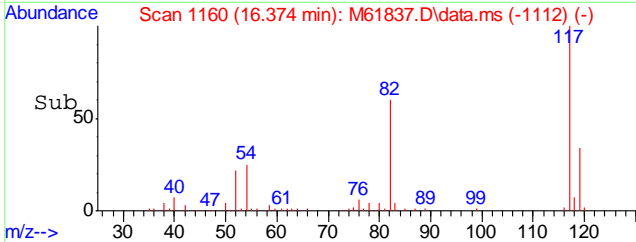
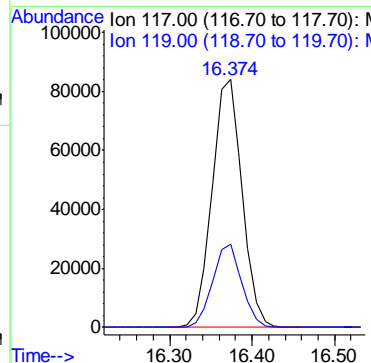
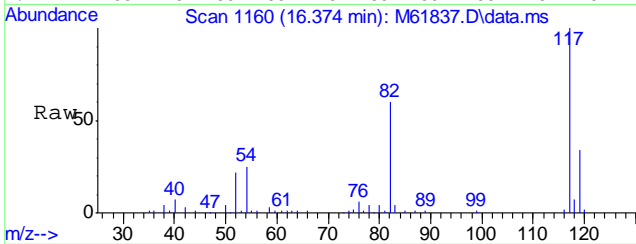


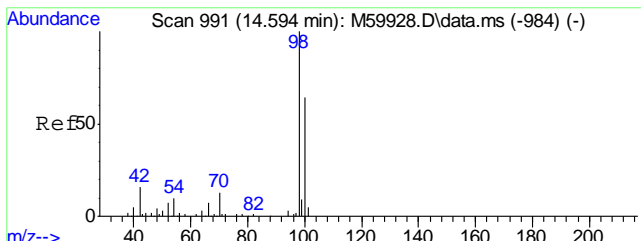


#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.669 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm
Tgt Ion:114 Resp: 221089



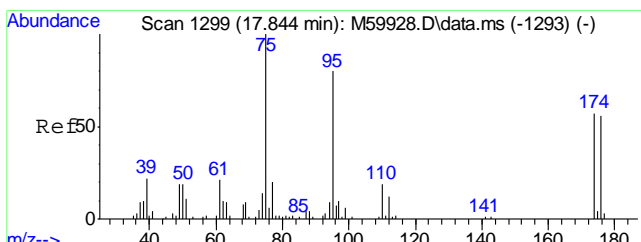
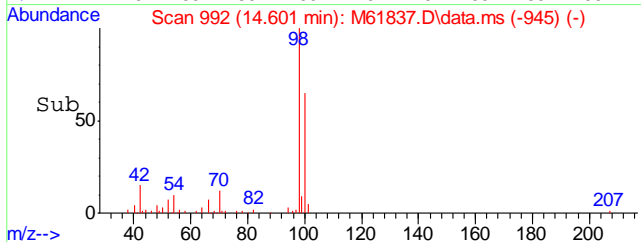
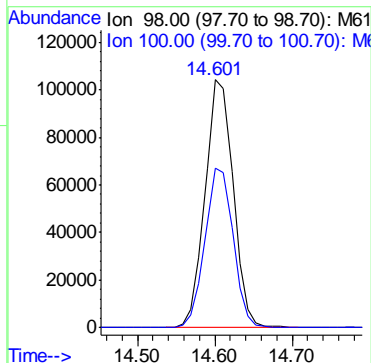
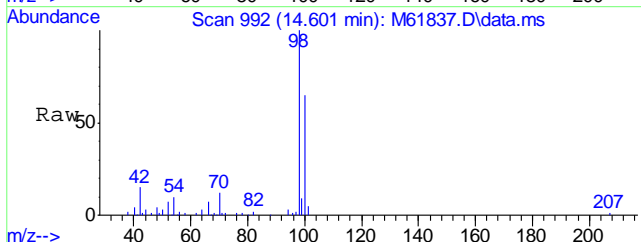
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.374 min Scan# 1160
Delta R.T. 0.007 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm
Tgt Ion:117 Resp: 212864
Ion Ratio Lower Upper
117 100
119 32.5 11.2 51.2





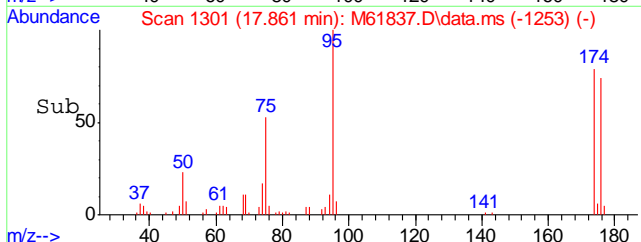
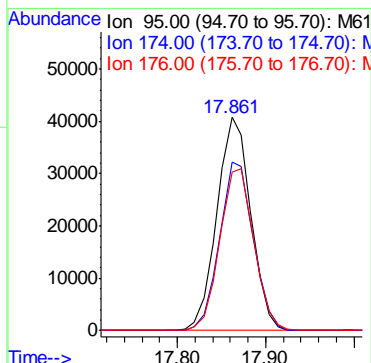
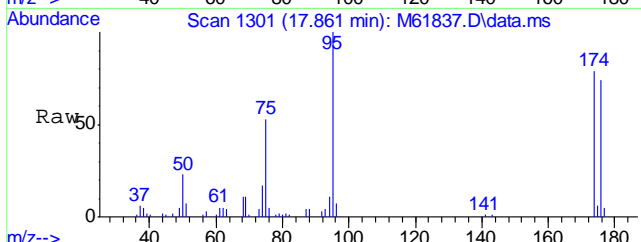
#56
Toluene-d8
Concen: 18.92 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm

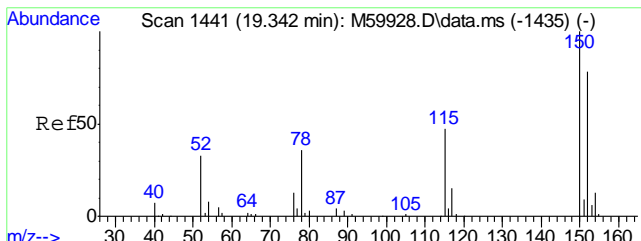
Tgt Ion	Resp	Lower	Upper
98	262787		
98	100		
100	64.4	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 19.87 ppb
RT: 17.861 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm

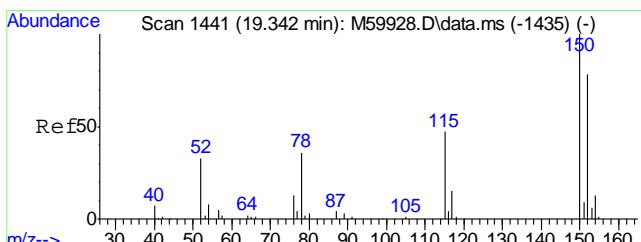
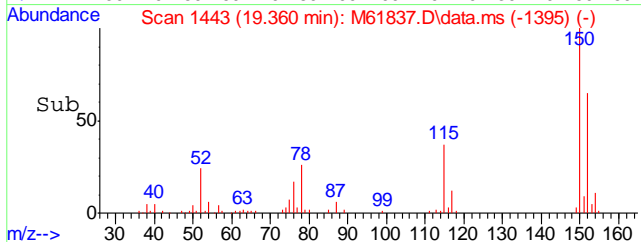
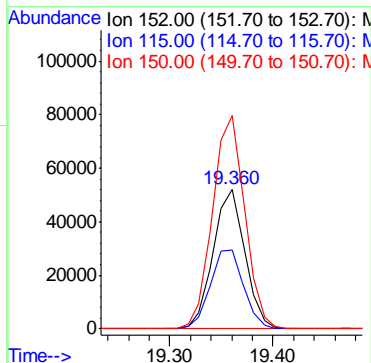
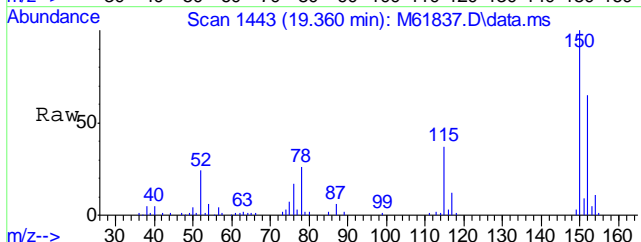
Tgt Ion	Resp	Lower	Upper
95	108516		
95	100		
174	78.2	54.3	94.3
176	76.1	51.5	91.5





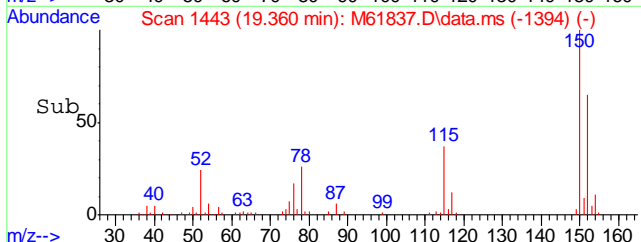
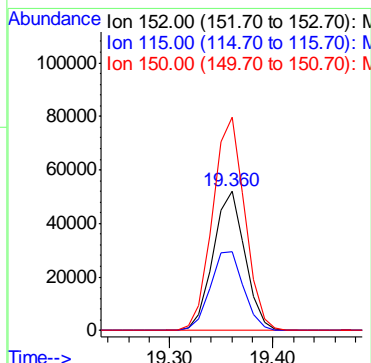
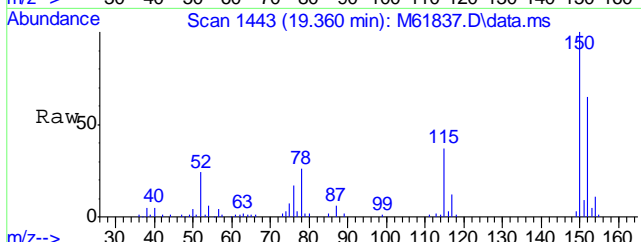
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.007 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm

Tgt Ion	Resp	Lower	Upper
152	111369		
152	100		
115	59.1	40.9	80.9
150	155.2	178.6	218.6#



#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm

Tgt Ion	Resp	Lower	Upper
152	111369		
152	100		
115	59.1	37.3	77.3
150	155.2	176.0	216.0#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61837.D
Acq On : 13 Jul 2016 3:33 pm
Operator : johannat
Sample : C46446-9
Misc : MS1912,VM1859,5.24,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 18:20:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.350	168	147491	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.669	114	221089	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	212864	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.360	152	111369	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.360	152	111369	20.00	ppb	0.02

System Monitoring Compounds						
36) Dibromofluoromethane	11.466	111	73983	19.78	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	98.90%		
56) Toluene-d8	14.601	98	262787	18.92	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	94.60%		
74) 4-Bromofluorobenzene	17.861	95	108516	19.87	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	99.35%		

Target Compounds Qvalue

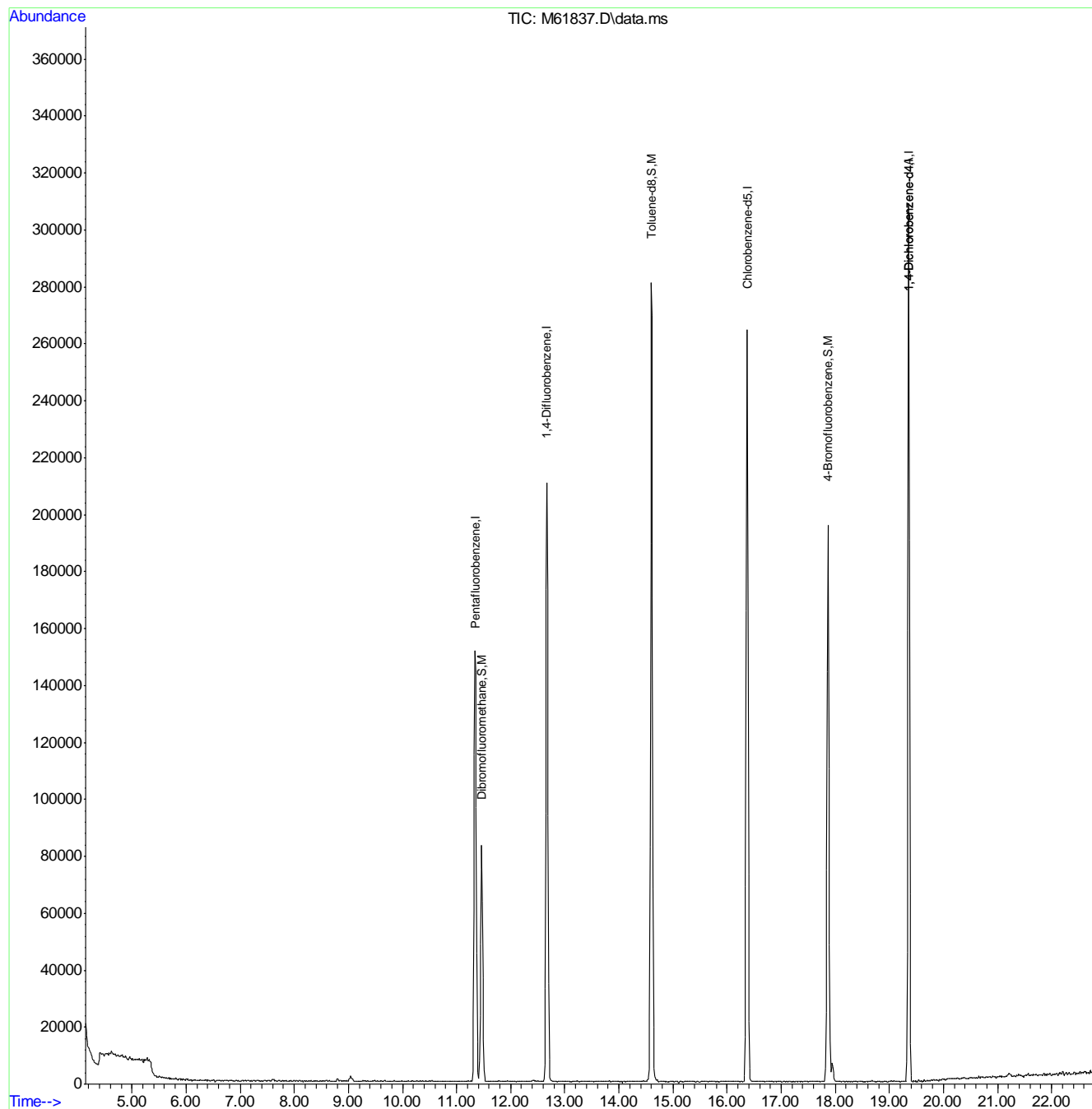
(#) = qualifier out of range (m) = manual integration (+) = signals summed

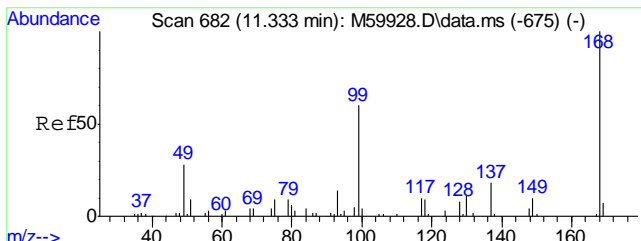
6.1.14
6

Quantitation Report (QT Reviewed)

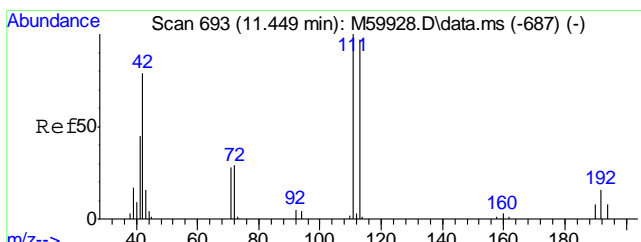
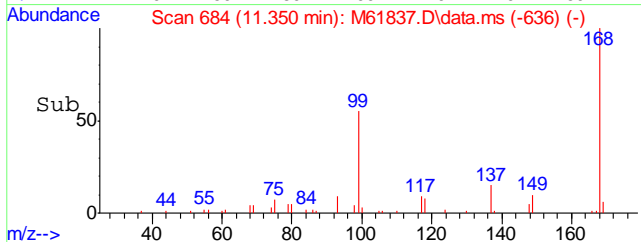
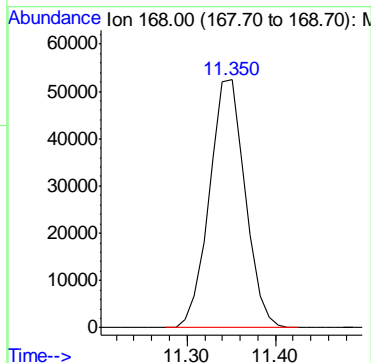
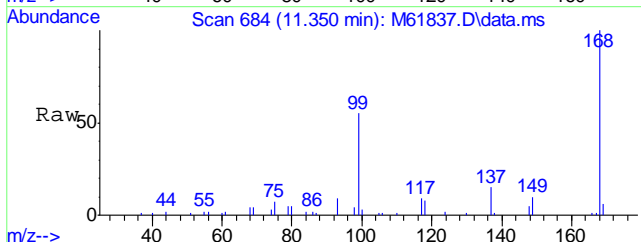
Data Path : C:\MSDCHEM\1\DATA\M160713\
Data File : M61837.D
Acq On : 13 Jul 2016 3:33 pm
Operator : johannat
Sample : C46446-9
Misc : MS1912,VM1859,5.24,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 18:20:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
Quant Title : EPA 8260B
QLast Update : Fri Jun 24 10:07:55 2016
Response via : Initial Calibration

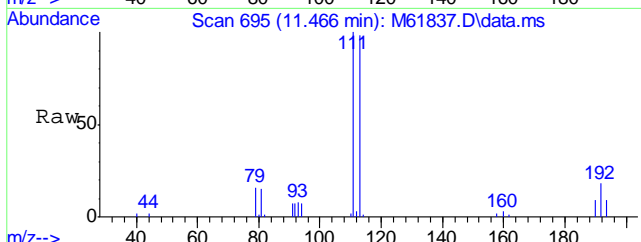




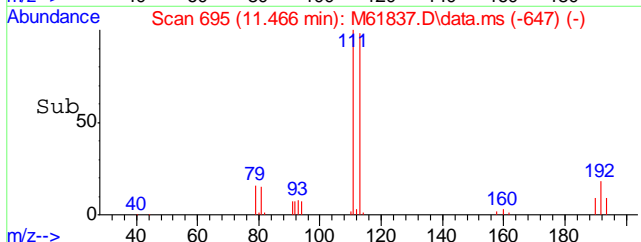
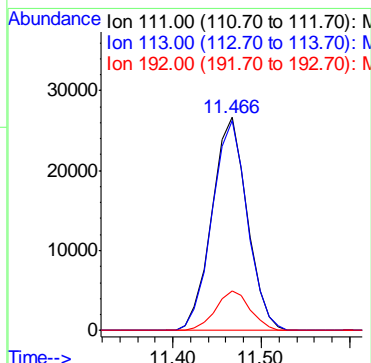
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.350 min Scan# 684
 Delta R.T. 0.007 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm
 Tgt Ion:168 Resp: 147491

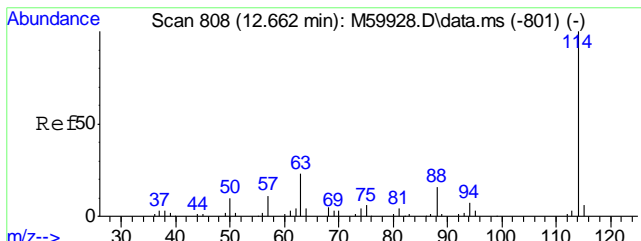


#36
 Dibromofluoromethane
 Concen: 19.78 ppb
 RT: 11.466 min Scan# 695
 Delta R.T. 0.007 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm
 Tgt Ion:111 Resp: 73983

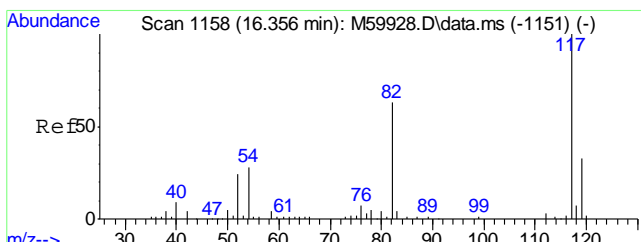
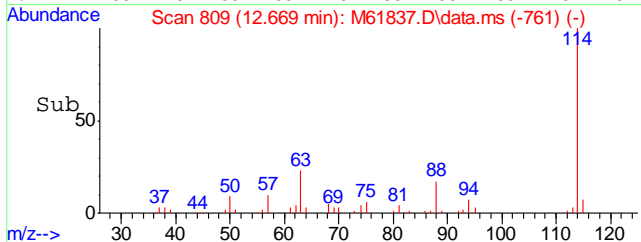
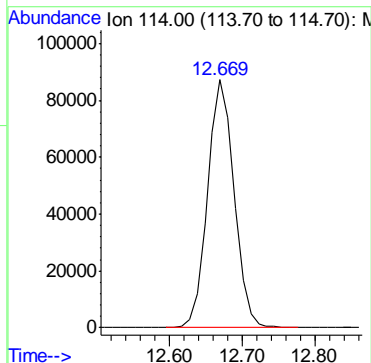
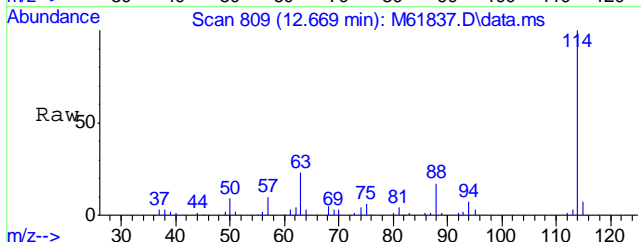


Ion	Ratio	Lower	Upper
111	100		
113	98.2	77.7	117.7
192	18.0	0.0	36.3

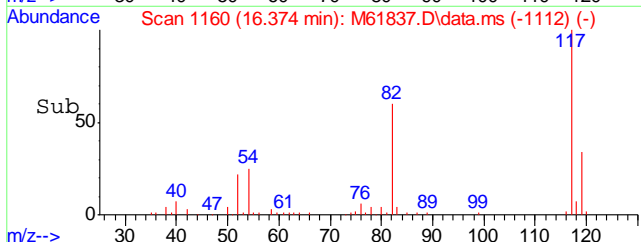
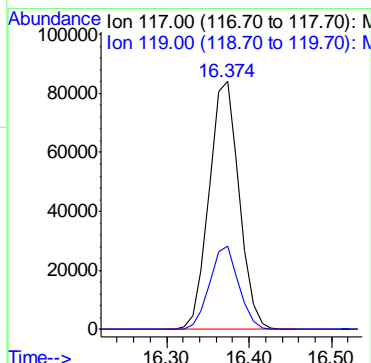
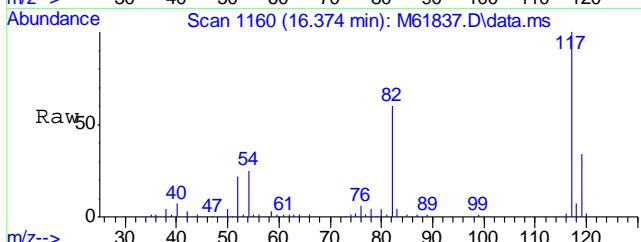


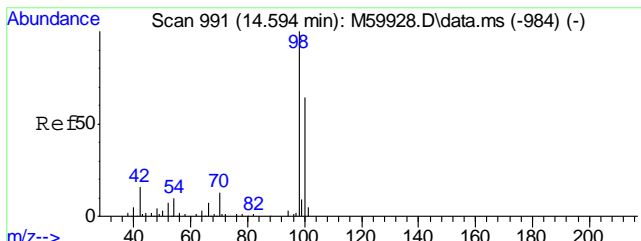


#40
1,4-Difluorobenzene
Concen: 20.00 ppb
RT: 12.669 min Scan# 809
Delta R.T. 0.007 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm
Tgt Ion:114 Resp: 221089



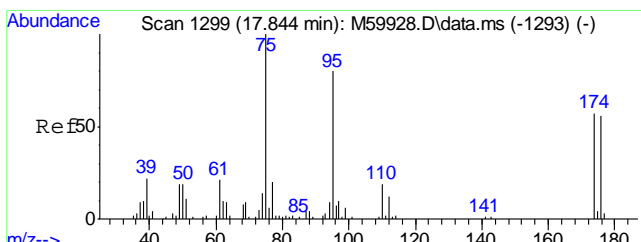
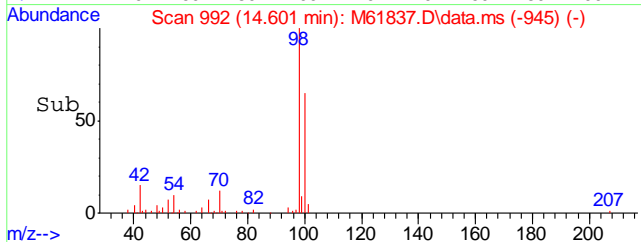
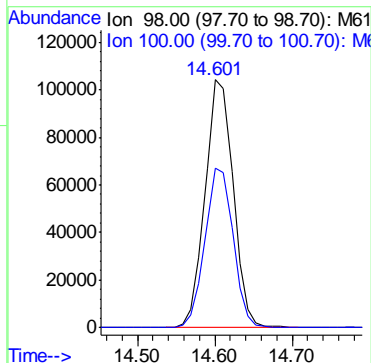
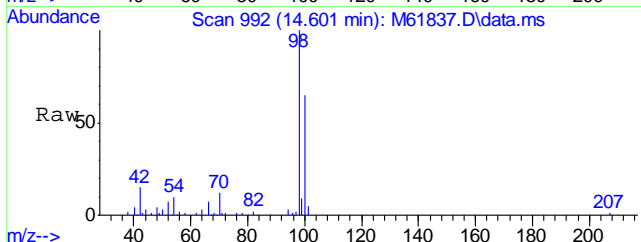
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.374 min Scan# 1160
Delta R.T. 0.007 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm
Tgt Ion:117 Resp: 212864
Ion Ratio Lower Upper
117 100
119 32.5 11.2 51.2





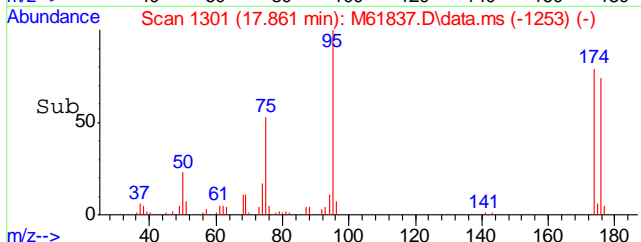
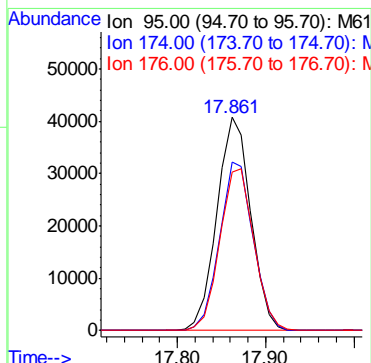
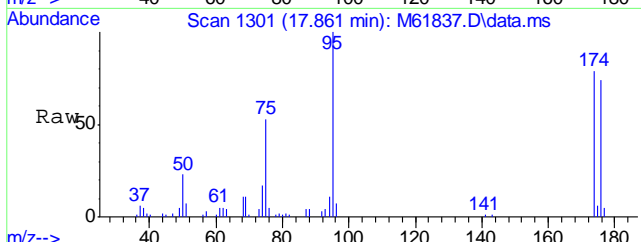
#56
Toluene-d8
Concen: 18.92 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm

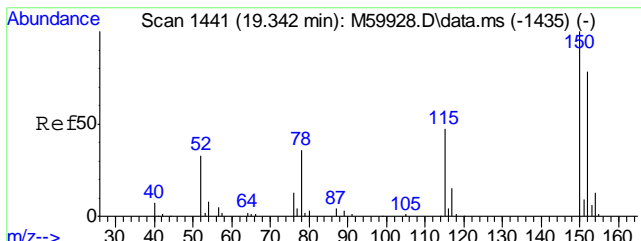
Tgt Ion	Resp	Lower	Upper
98	262787		
98	100		
100	64.4	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 19.87 ppb
RT: 17.861 min Scan# 1301
Delta R.T. 0.007 min
Lab File: M61837.D
Acq: 13 Jul 2016 3:33 pm

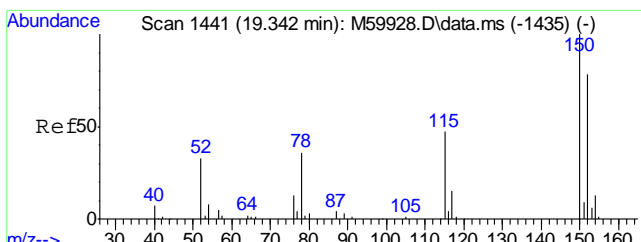
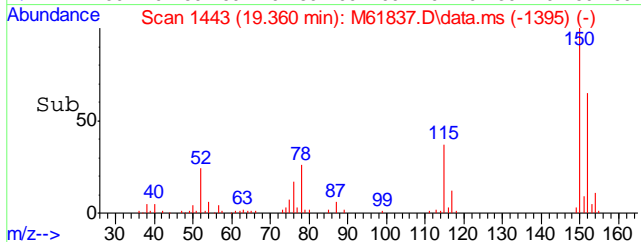
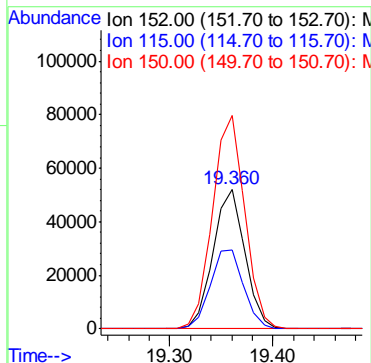
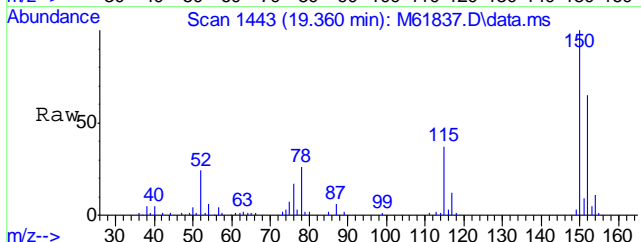
Tgt Ion	Resp	Lower	Upper
95	108516		
95	100		
174	78.2	54.3	94.3
176	76.1	51.5	91.5





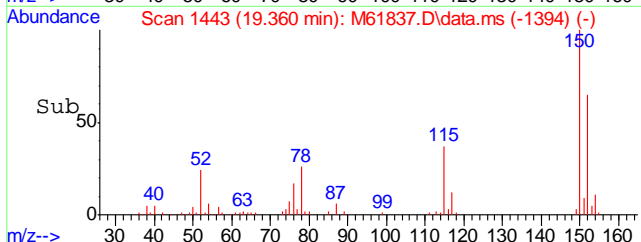
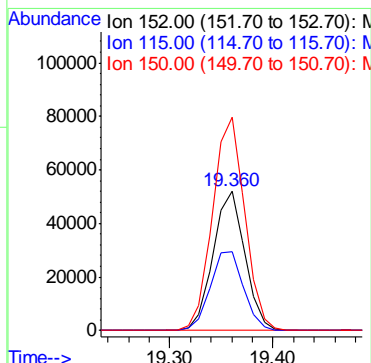
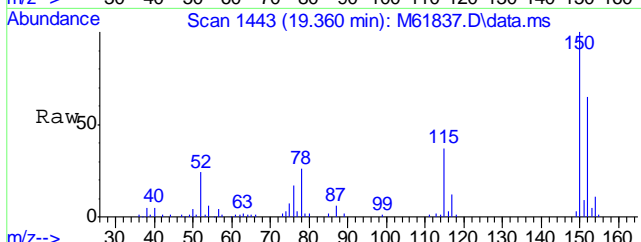
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.007 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	59.1	40.9	80.9
150	155.2	178.6	218.6#



#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.360 min Scan# 1443
 Delta R.T. 0.018 min
 Lab File: M61837.D
 Acq: 13 Jul 2016 3:33 pm

Tgt Ion	Resp	Lower	Upper
152	100		
115	59.1	37.3	77.3
150	155.2	176.0	216.0#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61834.D
 Acq On : 13 Jul 2016 1:58 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1859,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 16:34:20 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.351	168	163557	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.670	114	244456	20.00	ppb	0.00
55) Chlorobenzene-d5	16.374	117	235313	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.361	152	128649	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.361	152	128649	20.00	ppb	0.02

System Monitoring Compounds

36) Dibromofluoromethane	11.467	111	79332	19.13	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	95.65%		
56) Toluene-d8	14.601	98	285757	18.61	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	93.05%		
74) 4-Bromofluorobenzene	17.862	95	122149	20.23	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	101.15%		

Target Compounds

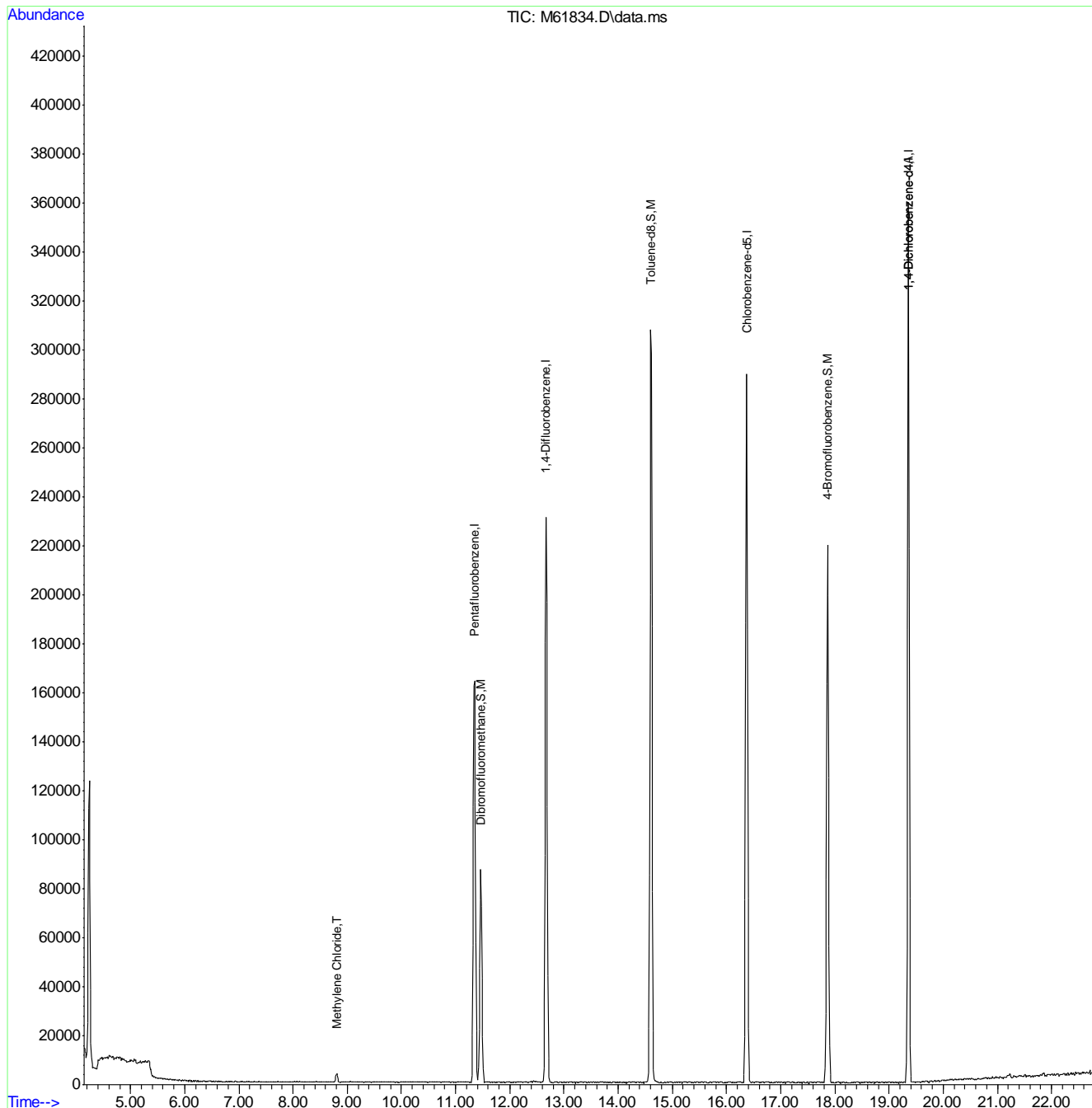
					Qvalue	
19) Methylene Chloride	8.808	84	2606	0.45	ppb	# 75

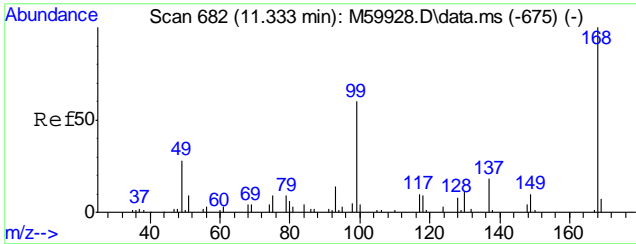
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

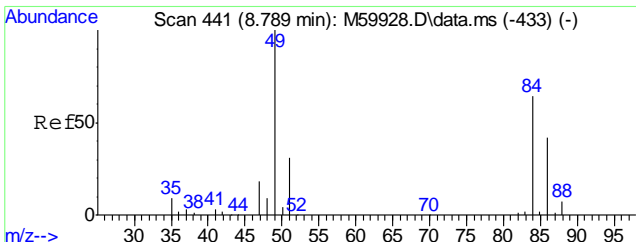
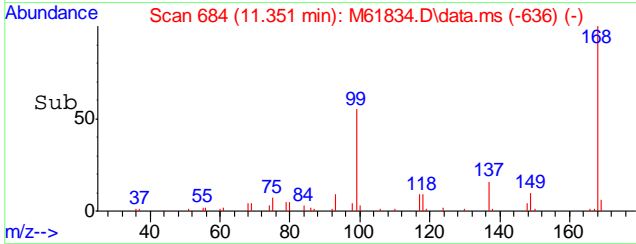
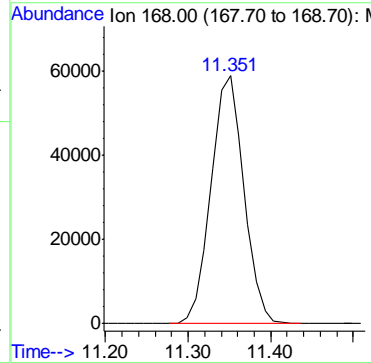
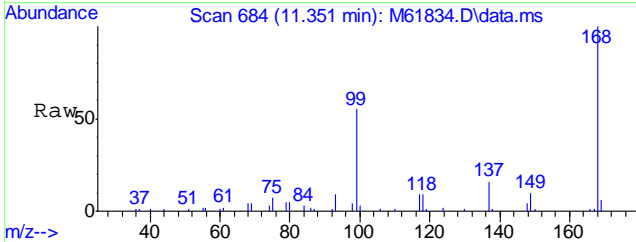
Data Path : C:\MSDCHEM\1\DATA\M160713\
 Data File : M61834.D
 Acq On : 13 Jul 2016 1:58 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1859,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 16:34:20 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1848S.M
 Quant Title : EPA 8260B
 QLast Update : Fri Jun 24 10:07:55 2016
 Response via : Initial Calibration



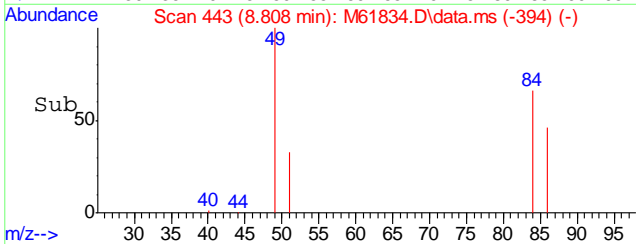
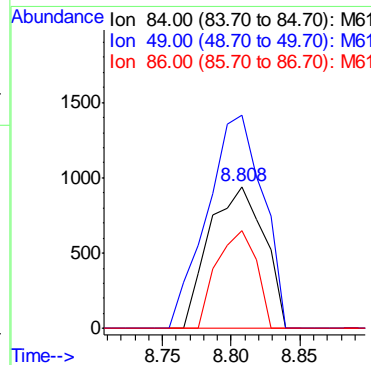
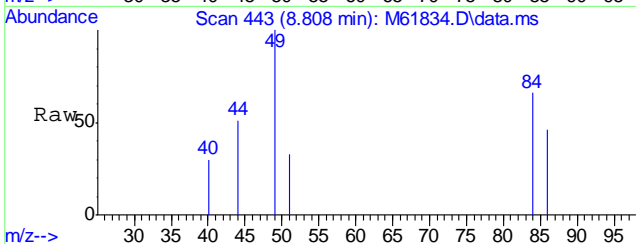


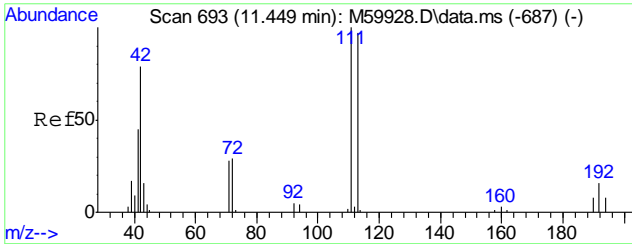
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.351 min Scan# 684
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm
 Tgt Ion:168 Resp: 163557



#19
 Methylene Chloride
 Concen: 0.45 ppb
 RT: 8.808 min Scan# 443
 Delta R.T. 0.018 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm
 Tgt Ion: 84 Resp: 2606

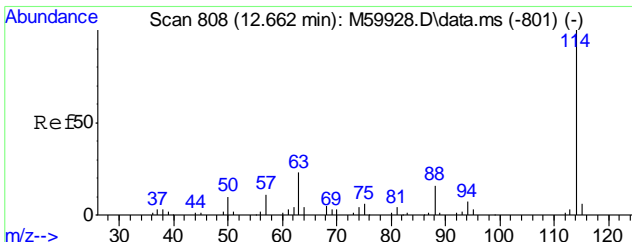
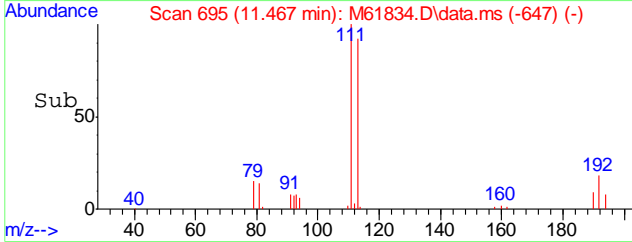
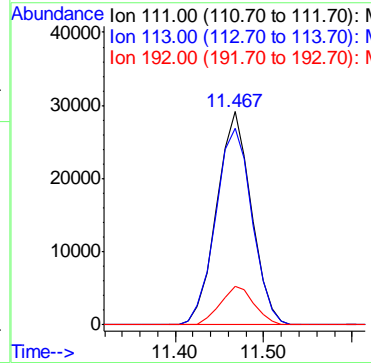
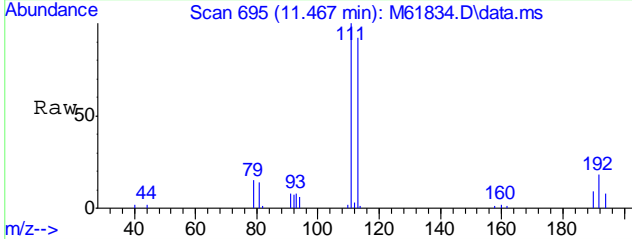
Ion	Ratio	Lower	Upper
84	100		
49	152.3	134.5	174.5
86	0.0	43.8	83.8#





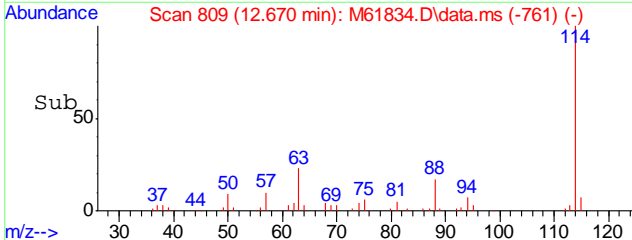
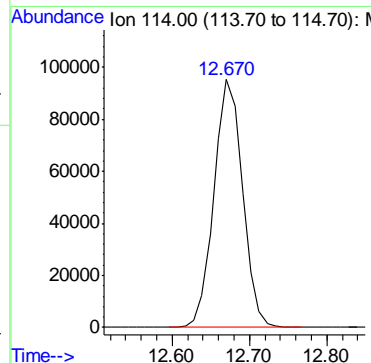
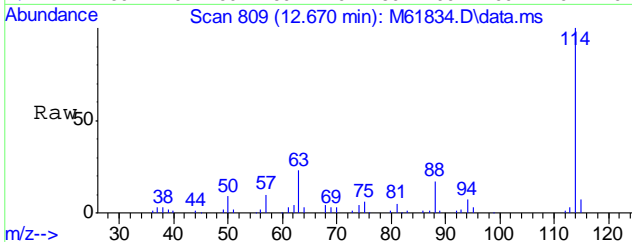
#36
 Dibromofluoromethane
 Concen: 19.13 ppb
 RT: 11.467 min Scan# 695
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm

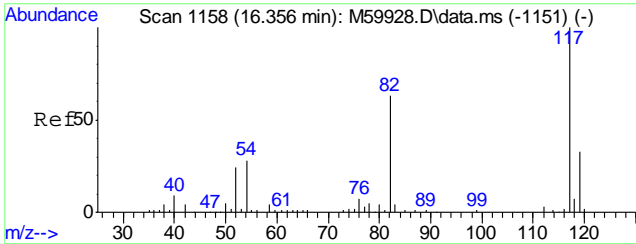
Tgt Ion	Resp	Lower	Upper
111	79332	100	
113	96.8	77.7	117.7
192	17.6	0.0	36.3



#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.670 min Scan# 809
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm

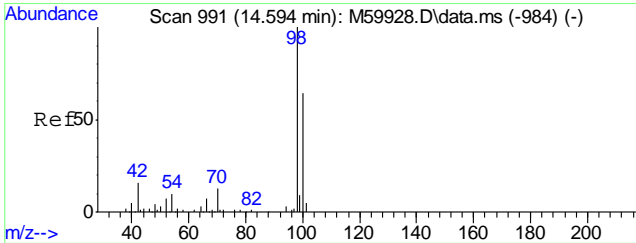
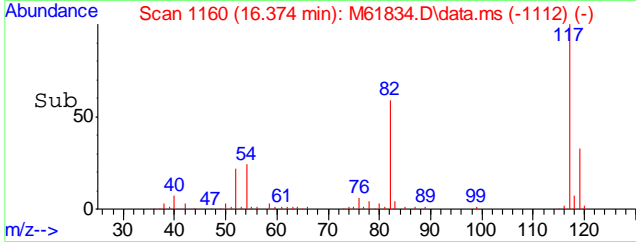
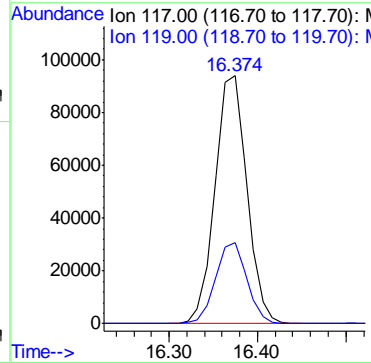
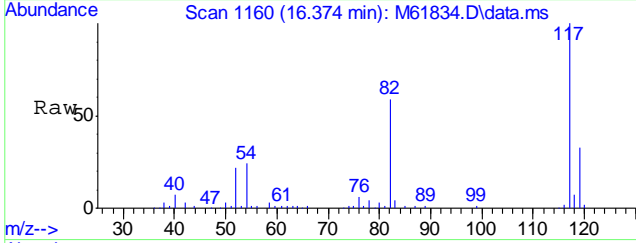
Tgt Ion:114 Resp: 244456





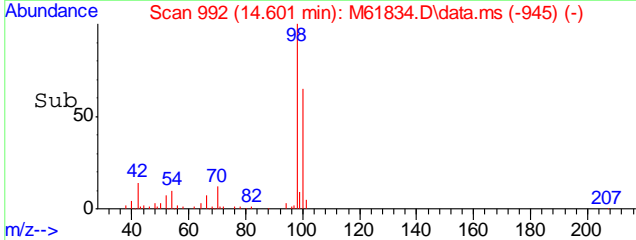
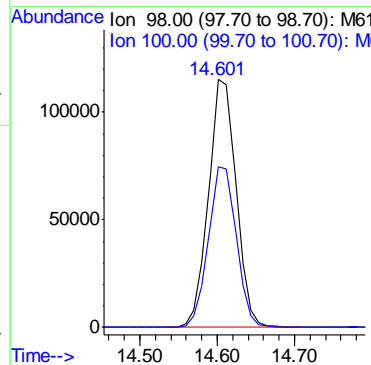
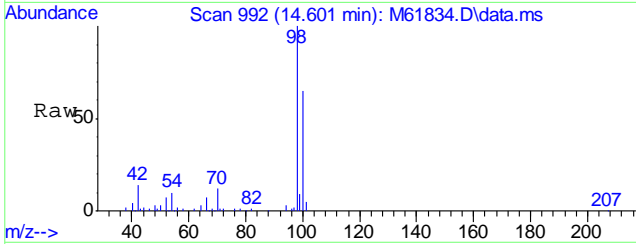
#55
Chlorobenzene-d5
Concen: 20.00 ppb
RT: 16.374 min Scan# 1160
Delta R.T. 0.008 min
Lab File: M61834.D
Acq: 13 Jul 2016 1:58 pm

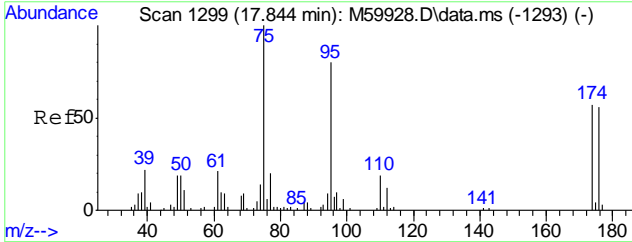
Tgt Ion:	117	Resp:	235313
Ion Ratio	Lower	Upper	
117	100		
119	32.4	11.2	51.2



#56
Toluene-d8
Concen: 18.61 ppb
RT: 14.601 min Scan# 992
Delta R.T. -0.003 min
Lab File: M61834.D
Acq: 13 Jul 2016 1:58 pm

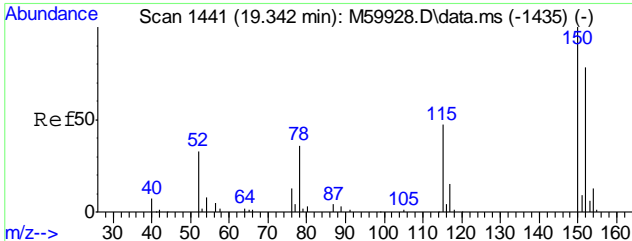
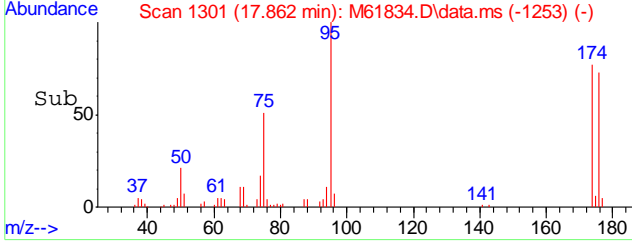
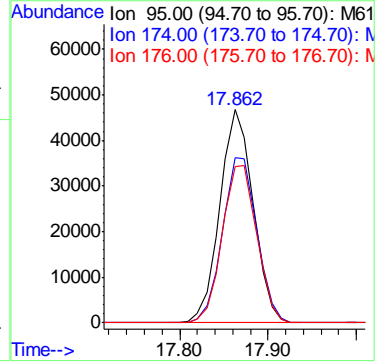
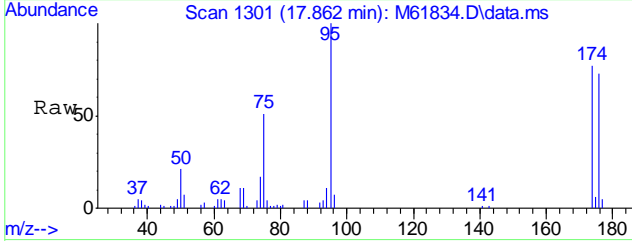
Tgt Ion:	98	Resp:	285757
Ion Ratio	Lower	Upper	
98	100		
100	65.4	44.3	84.3





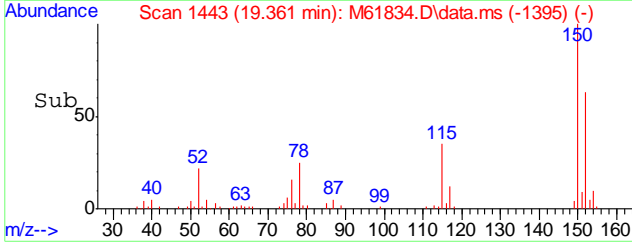
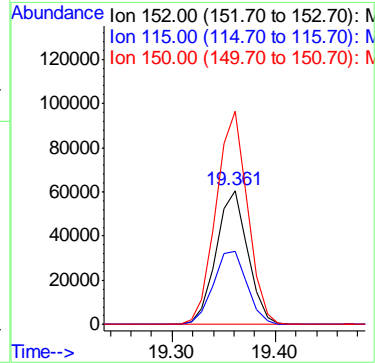
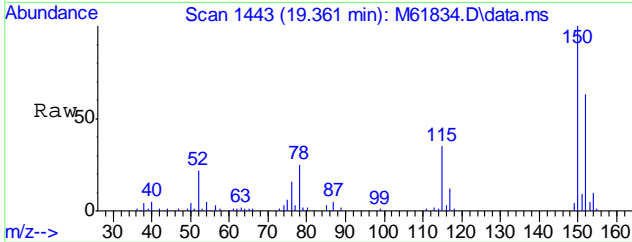
#74
 4-Bromofluorobenzene
 Concen: 20.23 ppb
 RT: 17.862 min Scan# 1301
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm

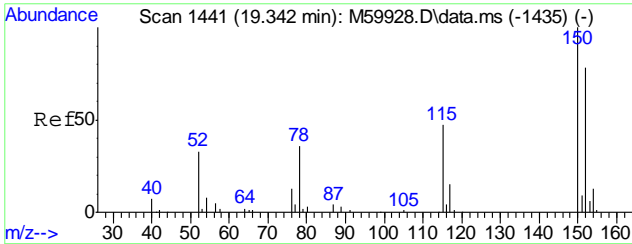
Tgt Ion	Resp	Lower	Upper
95	122149		
174	80.1	54.3	94.3
176	76.8	51.5	91.5



#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.361 min Scan# 1443
 Delta R.T. 0.008 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm

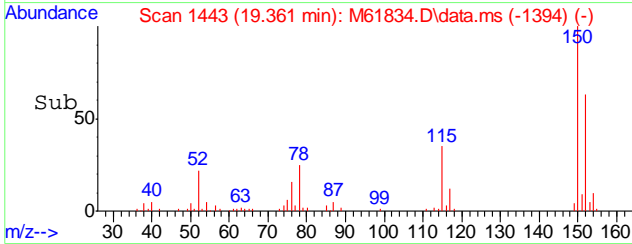
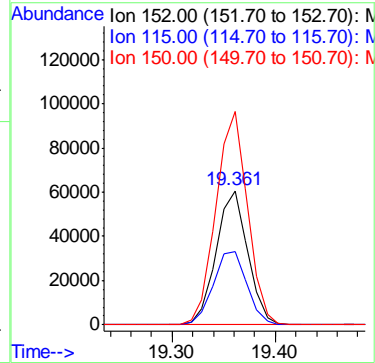
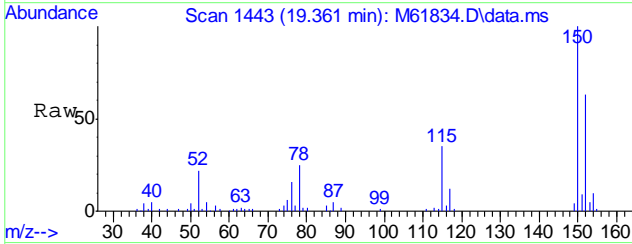
Tgt Ion	Resp	Lower	Upper
152	128649		
115	58.5	40.9	80.9
150	159.1	178.6	218.6#





#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.361 min Scan# 1443
 Delta R.T. 0.019 min
 Lab File: M61834.D
 Acq: 13 Jul 2016 1:58 pm

Tgt Ion	Resp	Lower	Upper
152	128649		
152	100		
115	58.5	37.3	77.3
150	159.1	176.0	216.0#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61913.D
 Acq On : 18 Jul 2016 4:51 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1861,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 19 09:00:23 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.342	168	160520	20.00	ppb	0.00
40) 1,4-Difluorobenzene	12.672	114	244448	20.00	ppb	0.00
55) Chlorobenzene-d5	16.365	117	241467	20.00	ppb	0.00
77) 1,4-Dichlorobenzene-d4	19.352	152	137692	20.00	ppb	0.00
99) 1,4-Dichlorobenzene-d4A	19.352	152	137692	20.00	ppb	0.00

System Monitoring Compounds

36) Dibromofluoromethane	11.458	111	76953	20.20	ppb	0.00
Spiked Amount	20.000	Range 80 - 136	Recovery =	101.00%		
56) Toluene-d8	14.603	98	289959	19.70	ppb	0.00
Spiked Amount	20.000	Range 88 - 113	Recovery =	98.50%		
74) 4-Bromofluorobenzene	17.864	95	125901	20.59	ppb	0.00
Spiked Amount	20.000	Range 79 - 115	Recovery =	102.95%		

Target Compounds

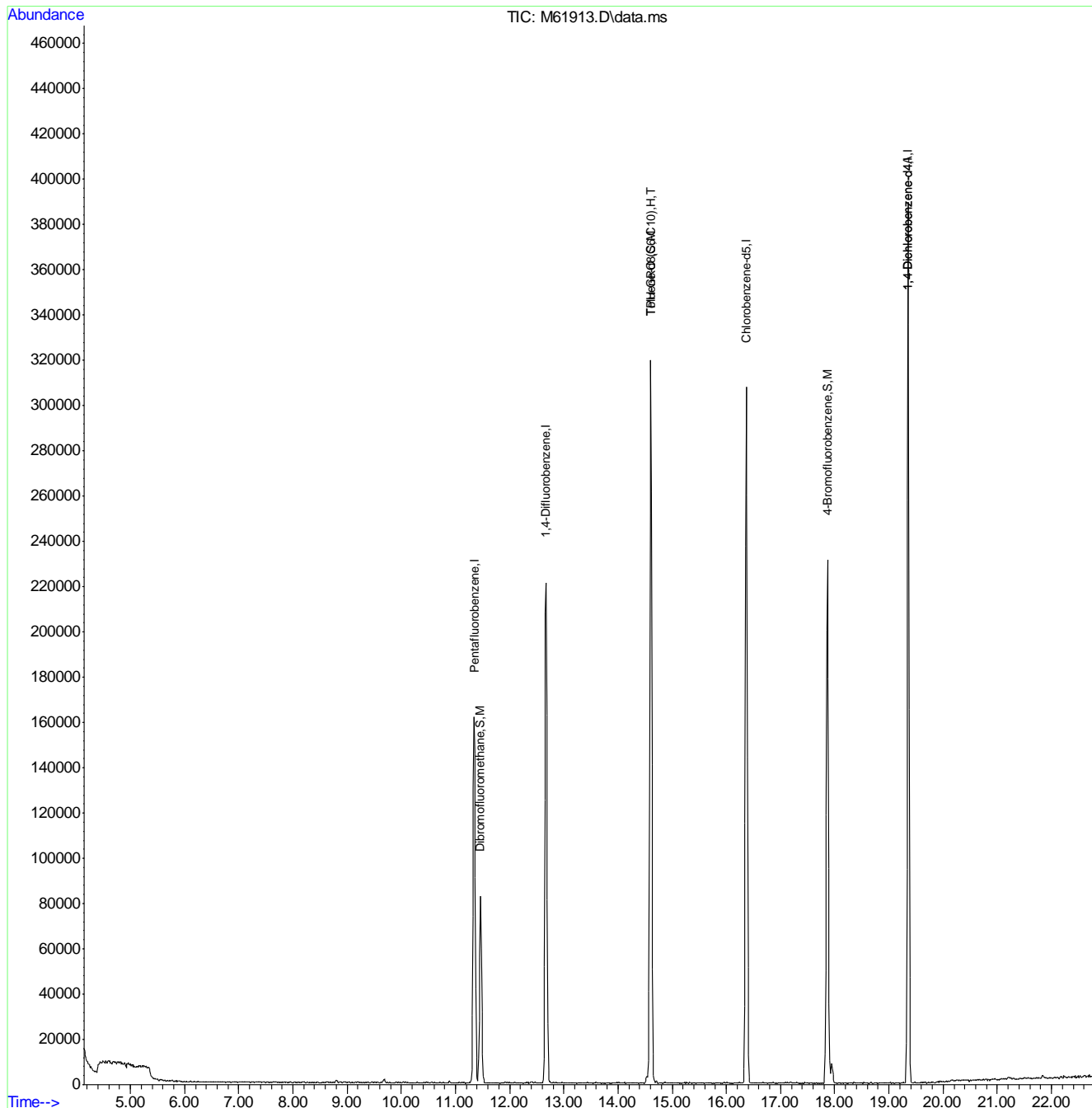
					Qvalue
100) TPH-GRO (C6-C10)	14.603	TIC	3662668m	34.74	ppb

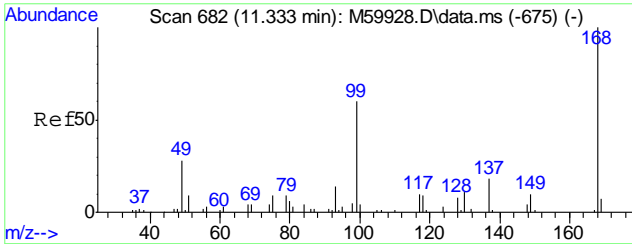
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

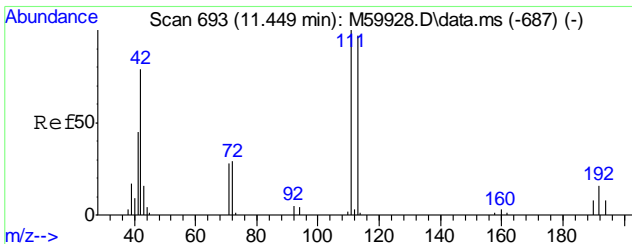
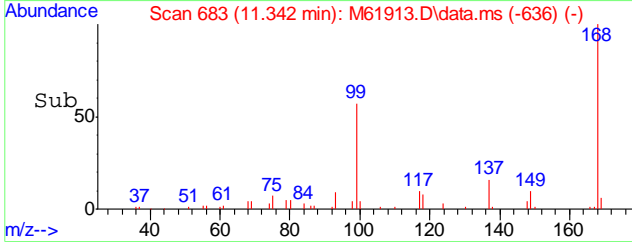
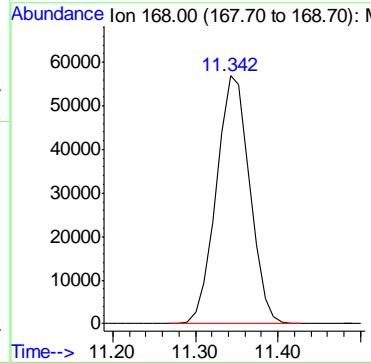
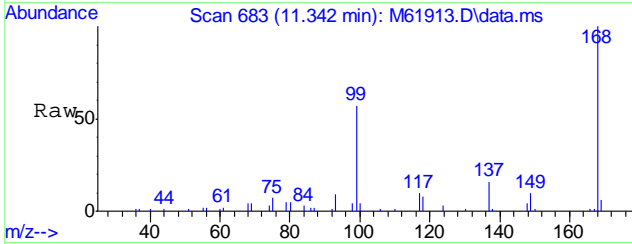
Data Path : C:\MSDCHEM\1\DATA\M160718\
 Data File : M61913.D
 Acq On : 18 Jul 2016 4:51 pm
 Operator : johannat
 Sample : MB
 Misc : MS1912,VM1861,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 19 09:00:23 2016
 Quant Method : C:\MSDCHEM\1\METHODS\VM1860S.M
 Quant Title : EPA 8260B
 QLast Update : Mon Jul 18 09:14:24 2016
 Response via : Initial Calibration



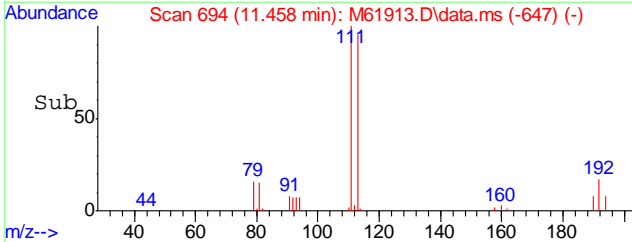
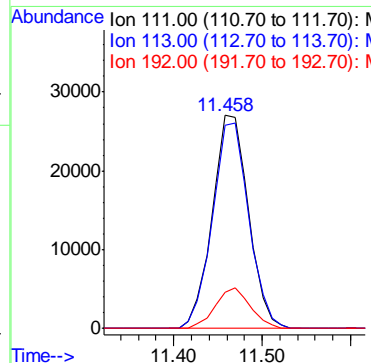
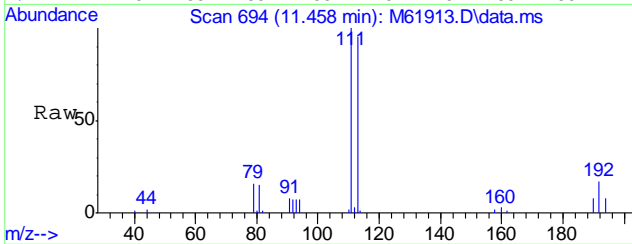


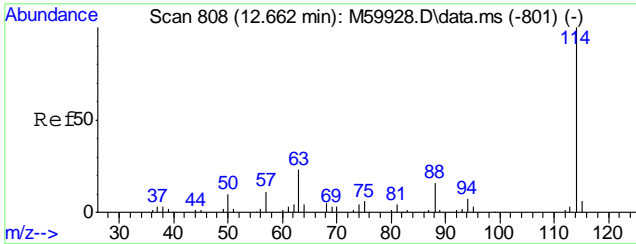
#1
 Pentafluorobenzene
 Concen: 20.00 ppb
 RT: 11.342 min Scan# 683
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:168 Resp: 160520



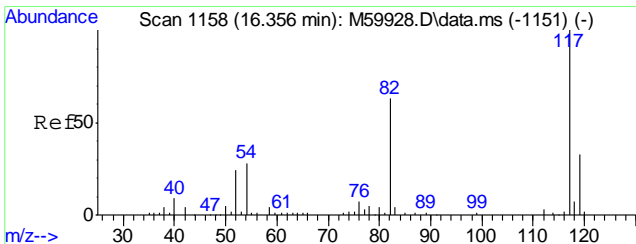
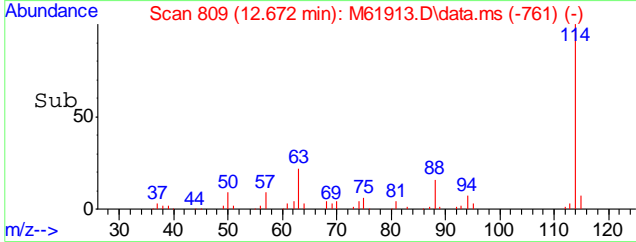
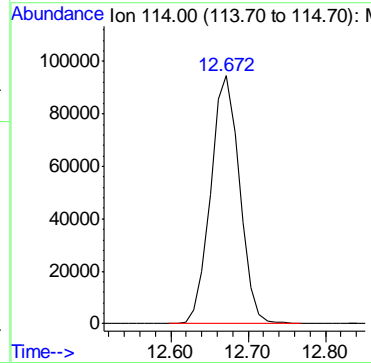
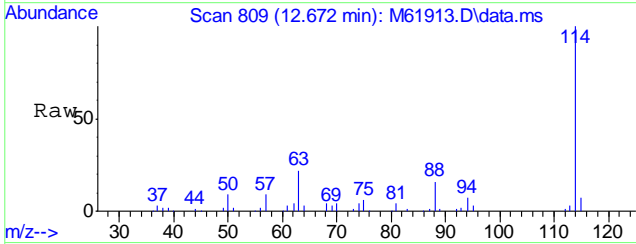
#36
 Dibromofluoromethane
 Concen: 20.20 ppb
 RT: 11.458 min Scan# 694
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:111 Resp: 76953

Ion	Ratio	Lower	Upper
111	100		
113	96.8	77.7	117.7
192	18.5	0.0	36.3

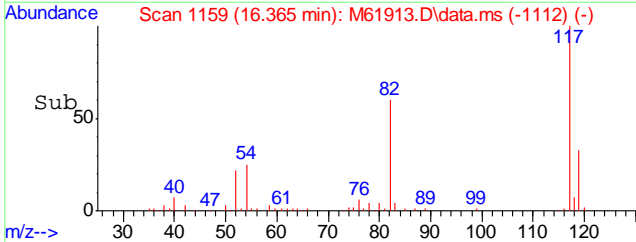
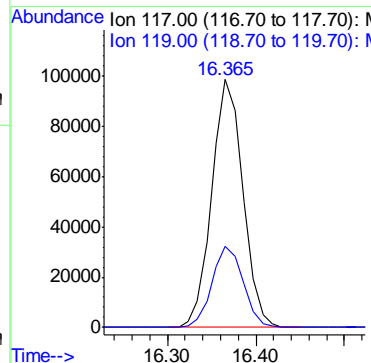
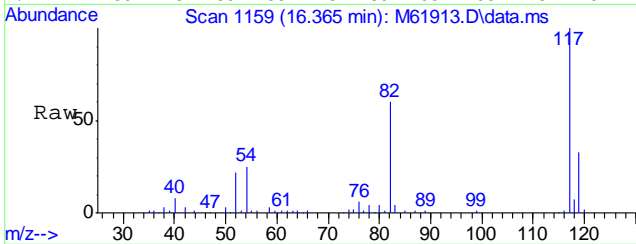


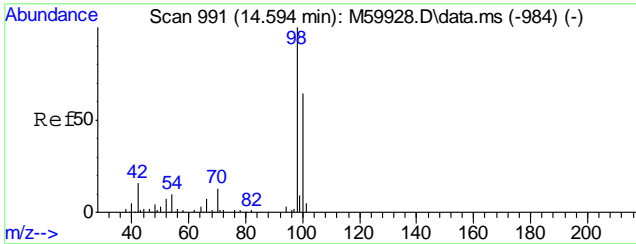


#40
 1,4-Difluorobenzene
 Concen: 20.00 ppb
 RT: 12.672 min Scan# 809
 Delta R.T. 0.010 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:114 Resp: 244448



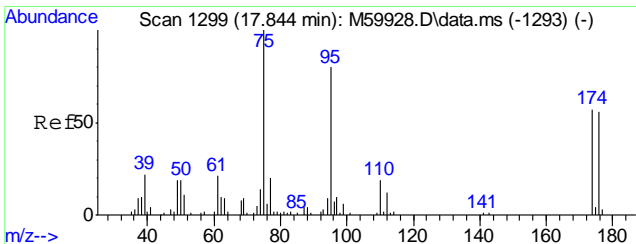
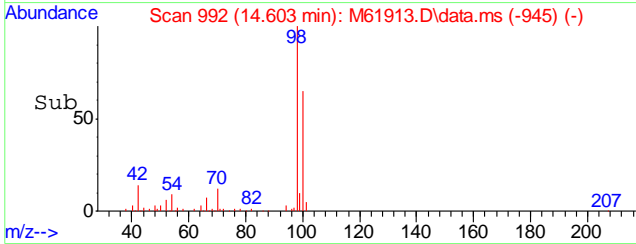
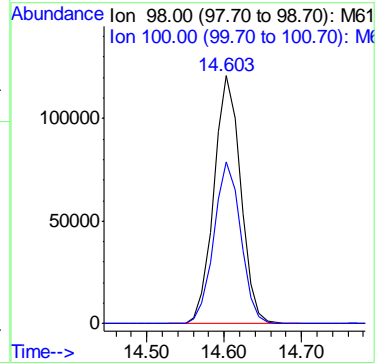
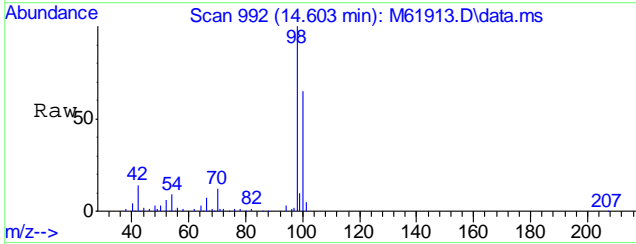
#55
 Chlorobenzene-d5
 Concen: 20.00 ppb
 RT: 16.365 min Scan# 1159
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:117 Resp: 241467
 Ion Ratio Lower Upper
 117 100
 119 32.7 11.2 51.2





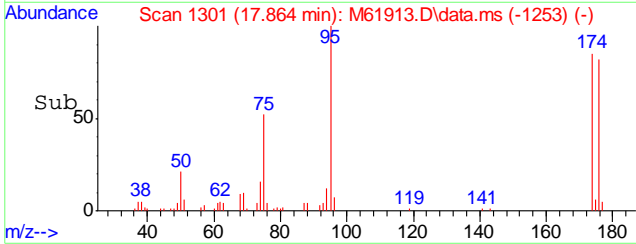
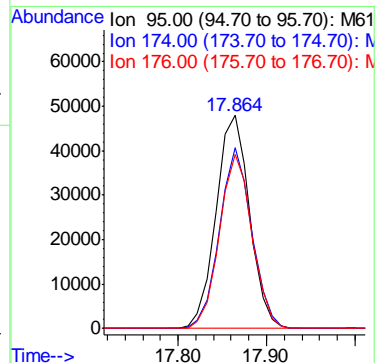
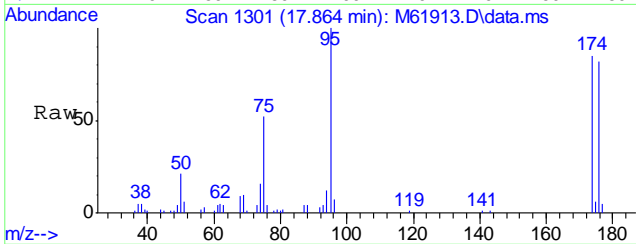
#56
Toluene-d8
Concen: 19.70 ppb
RT: 14.603 min Scan# 992
Delta R.T. -0.001 min
Lab File: M61913.D
Acq: 18 Jul 2016 4:51 pm

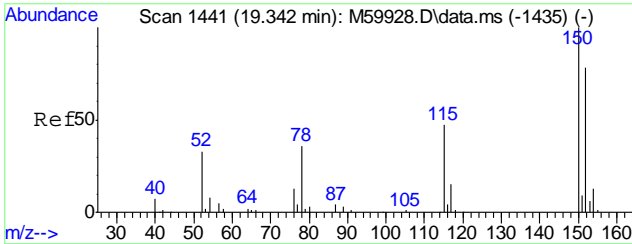
Tgt Ion	Resp	Lower	Upper
98	289959	100	
100	65.7	44.3	84.3



#74
4-Bromofluorobenzene
Concen: 20.59 ppb
RT: 17.864 min Scan# 1301
Delta R.T. 0.010 min
Lab File: M61913.D
Acq: 18 Jul 2016 4:51 pm

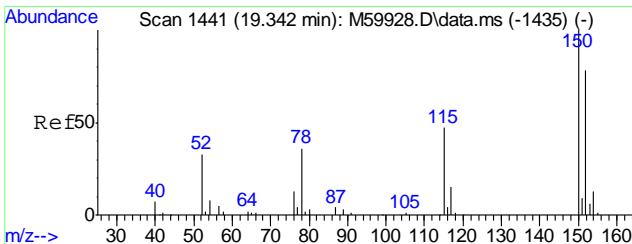
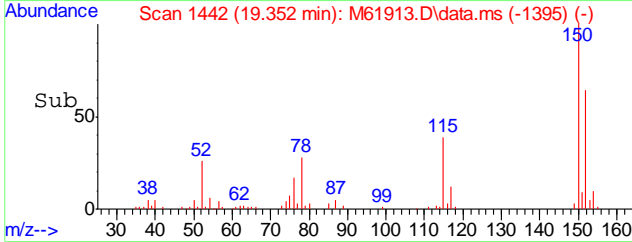
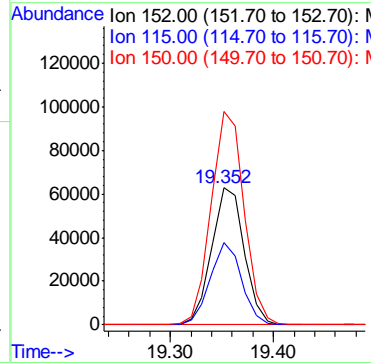
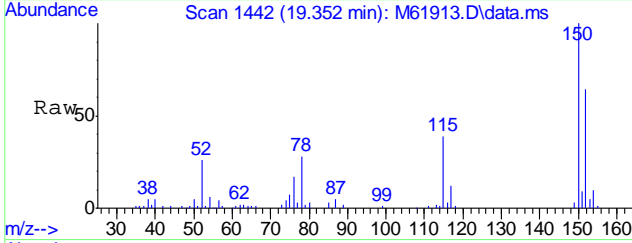
Tgt Ion	Resp	Lower	Upper
95	125901	100	
174	81.8	54.3	94.3
176	79.4	51.5	91.5





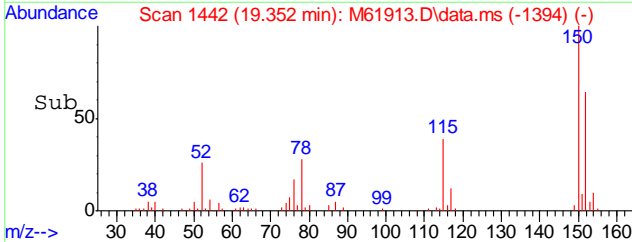
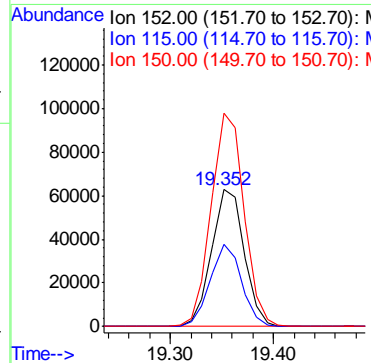
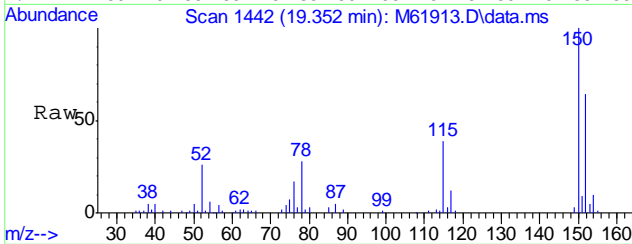
#77
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ppb
 RT: 19.352 min Scan# 1442
 Delta R.T. -0.001 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm

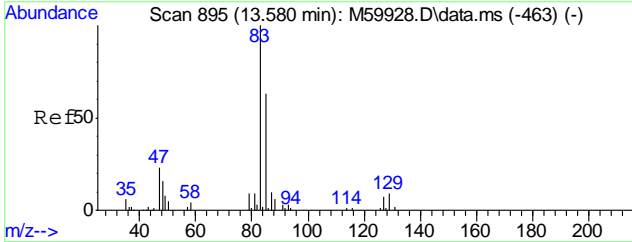
Tgt Ion	Resp	Lower	Upper
152	137692		
152	100		
115	57.7	40.9	80.9
150	156.8	178.6	218.6#



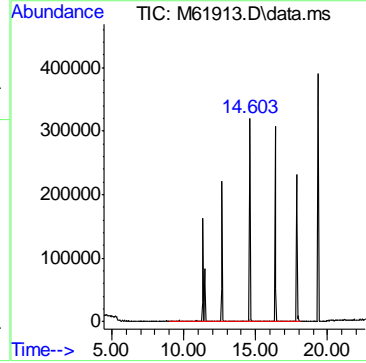
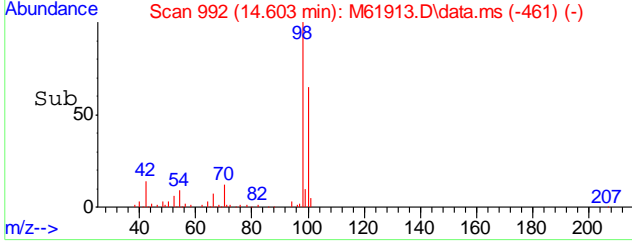
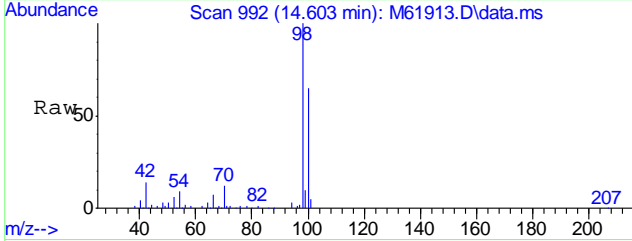
#99
 1,4-Dichlorobenzene-d4A
 Concen: 20.00 ppb
 RT: 19.352 min Scan# 1442
 Delta R.T. 0.010 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm

Tgt Ion	Resp	Lower	Upper
152	137692		
152	100		
115	57.7	37.3	77.3
150	156.8	176.0	216.0#





#100
 TPH-GRO (C6-C10)
 Concen: 34.74 ppb m
 RT: 14.603 min Scan# 992
 Delta R.T. 1.053 min
 Lab File: M61913.D
 Acq: 18 Jul 2016 4:51 pm
 Tgt Ion:TIC Resp: 3662668



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14620-MB	BB5271.D	1	07/12/16	NN	07/11/16	OP14620	GBB172

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	
	TPH (> C28-C40)	1.36	3.3	mg/kg	J

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	76% 38-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14620-BS	BB5269.D	1	07/12/16	NN	07/11/16	OP14620	GBB172
OP14620-BSD	BB5270.D	1	07/12/16	NN	07/11/16	OP14620	GBB172

The QC reported here applies to the following samples: Method: SW846 8015B M

C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	33.3	34.8	104	35.8	107	3	53-107/12
	TPH (> C28-C40)	33.3	32.6	98	34.8	104	7	59-120/14

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	75%	75%	38-146%

* = Outside of Control Limits.

7.2.1
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46446
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14620-MS	BB5278.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
OP14620-MSD	BB5279.D	20	07/12/16	NN	07/11/16	OP14620	GBB172
C46446-3	BB5300.D	4	07/12/16	FL	07/11/16	OP14620	GBB173

The QC reported here applies to the following samples:

Method: SW846 8015B M

C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

CAS No.	Compound	C46446-3 mg/kg	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	23.9	33	69.2	155* a	33	80.0	188* a	14* a	53-107/12
	TPH (> C28-C40)	67.5	33	192	480* a	33	191	477* a	1	59-120/14

CAS No.	Surrogate Recoveries	MS	MSD	C46446-3	Limits
630-01-3	Hexacosane	74%	123%	71%	38-146%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

7.3.1
7

GC Semi-volatiles

Raw Data

∞

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5273.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 3:06 am
Operator : FEIL
Sample : C46446-1 20X
Misc : OP14620,GBB172,30.34,,,1,20,S
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:48:33 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
1) S Hexacosane	8.192	3601988	3.627	ppm m
Spiked Amount	100.000	Recovery	=	3.63%
Target Compounds				
2) H TPH (C10-C28)	4.817	134052477	136.187	ppm
3) H TPH (>C28-C40)	9.372	182268660	334.909	ppm
7) H TPH (Motor Oil)	9.372	328038797	602.344	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

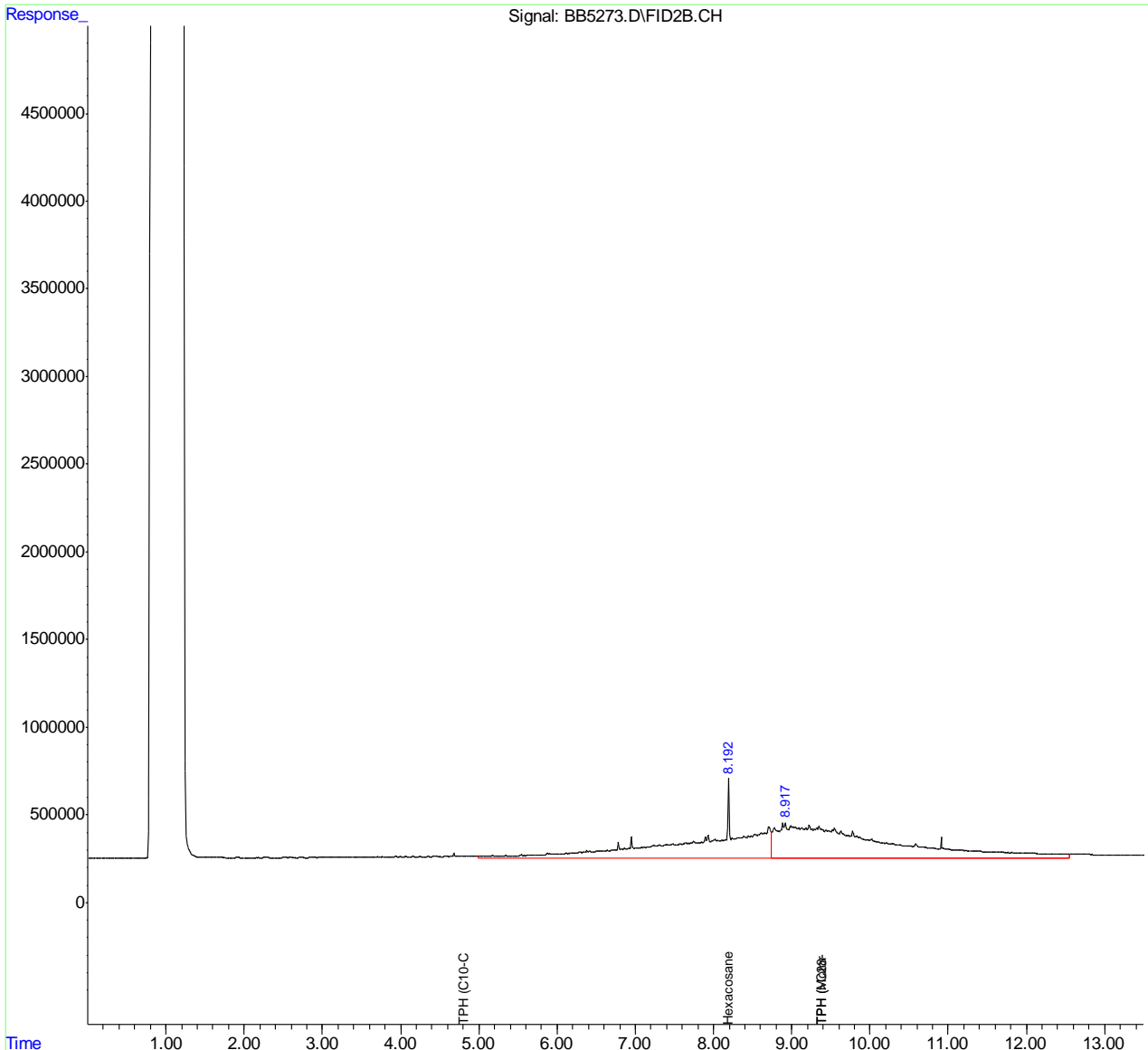
8.1.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5273.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 3:06 am
Operator : FEIL
Sample : C46446-1 20X
Misc : OP14620,GBB172,30.34,,,1,20,S
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:48:33 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB173\
Data File : BB5298.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 1:21 pm
Operator : NHATN
Sample : C46446-2
Misc : OP14620,GBB173,30.21,,,1,1,S
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 13 07:48:35 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.200	69937384	70.414 ppm
Spiked Amount 100.000		Recovery =	70.41%
Target Compounds			
2) H TPH (C10-C28)	4.817	123583367	125.552 ppm
3) H TPH (>C28-C40)	9.372	154487398	283.863 ppm
6) H TPH (Diesel)	4.817	124131686	126.152 ppm
7) H TPH (Motor Oil)	9.372	154220859	283.180 ppm

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

8.12
8

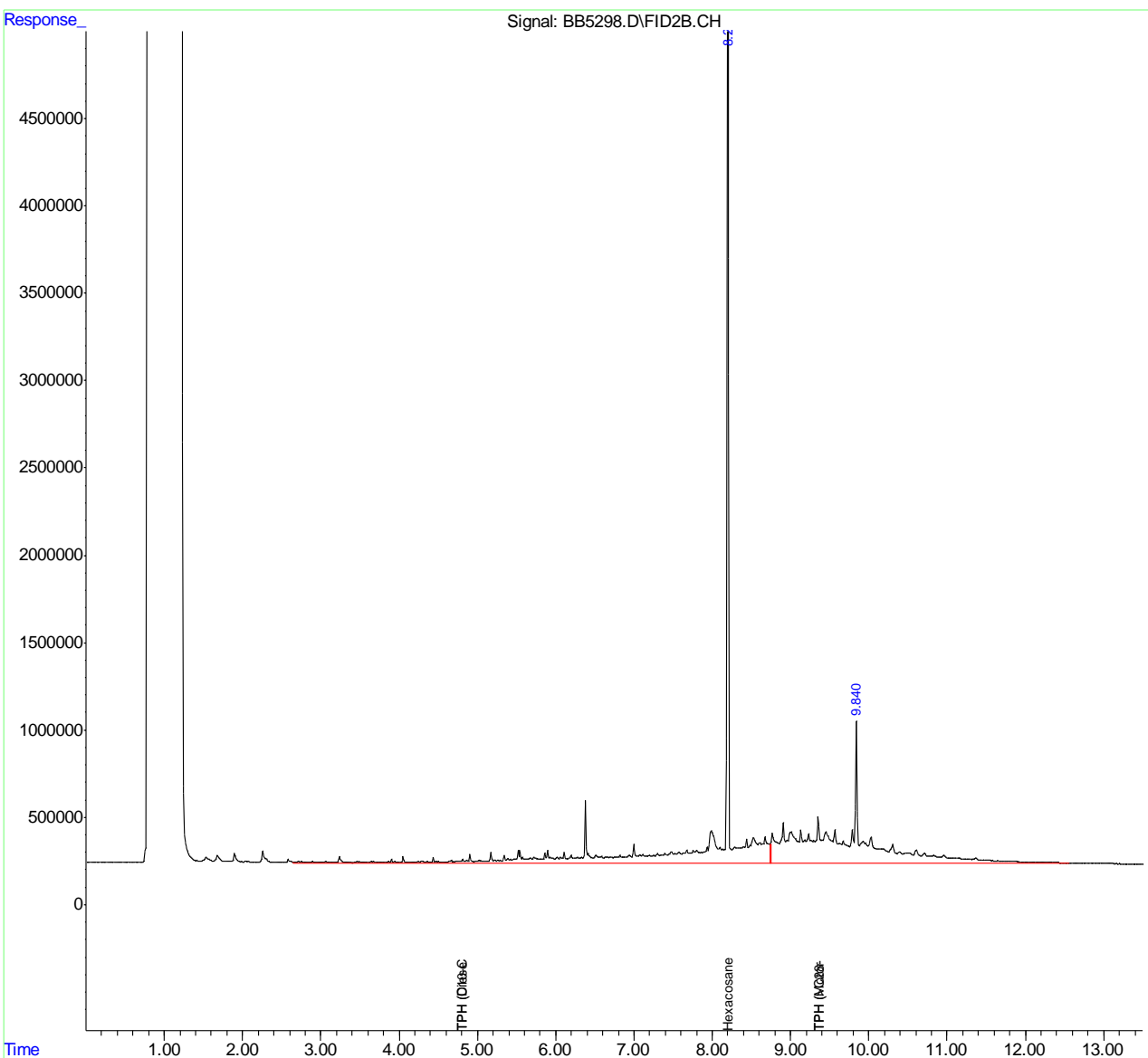
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB173\
Data File : BB5298.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 1:21 pm
Operator : NHATN
Sample : C46446-2
Misc : OP14620,GBB173,30.21,,,1,1,S
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 13 07:48:35 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.12
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB173\
Data File : BB5300.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 2:01 pm
Operator : NHATN
Sample : C46446-3
Misc : OP14620,GBB173,30.36,,,1,4,S
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 13 08:02:19 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.194	17562699	17.682 ppm
Spiked Amount	100.000	Recovery	= 17.68%
Target Compounds			
2) H TPH (C10-C28)	4.817	178859234	181.708 ppm
3) H TPH (>C28-C40)	9.372	278714302	512.123 ppm
6) H TPH (Diesel)	4.817	179718639	182.644 ppm
7) H TPH (Motor Oil)	9.372	279916083	513.981 ppm

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

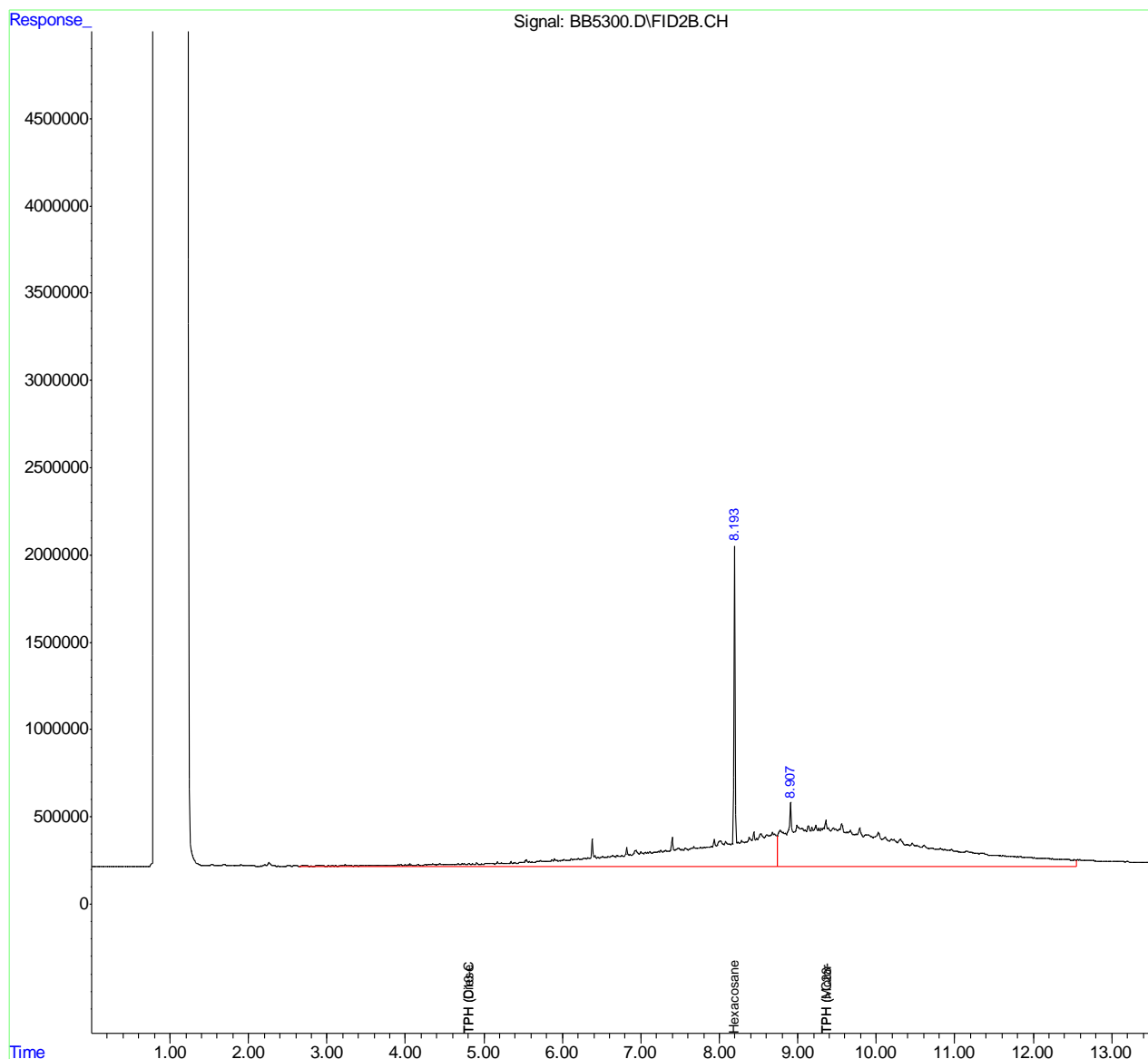
8.13
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB173\
Data File : BB5300.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 2:01 pm
Operator : NHATN
Sample : C46446-3
Misc : OP14620,GBB173,30.36,,,1,4,S
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 13 08:02:19 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5266.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 12:45 am
Operator : FEIL
Sample : C46446-4
Misc : OP14620,GBB172,30.11,,,1,1,S
ALS Vial : 29 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:37:18 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.201	67623015	68.084 ppm
Spiked Amount	100.000	Recovery	= 68.08%
Target Compounds			
2) H TPH (C10-C28)	4.817	115439217	117.278 ppm
3) H TPH (>C28-C40)	9.372	65162256	119.732 ppm
6) H TPH (Diesel)	4.817	115439217	117.318 ppm
7) H TPH (Motor Oil)	9.372	65162256	119.651 ppm

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

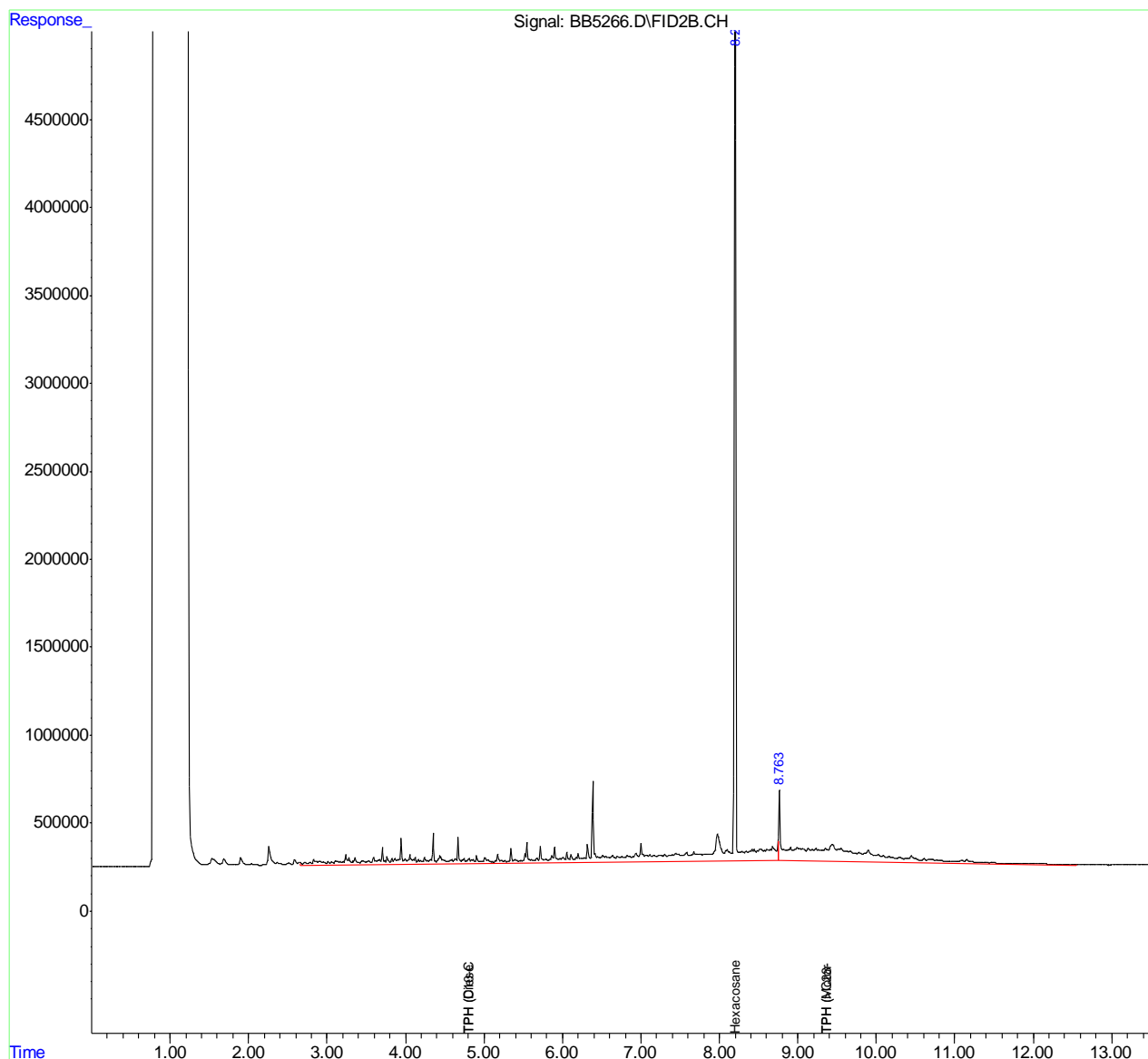
8.14
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5266.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 12:45 am
Operator : FEIL
Sample : C46446-4
Misc : OP14620,GBB172,30.11,,,1,1,S
ALS Vial : 29 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:37:18 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5267.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 1:05 am
Operator : FEIL
Sample : C46446-5 10X
Misc : OP14620,GBB172,30.29,,,1,10,S
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:39:03 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.196	6581047	6.626 ppm
Spiked Amount 100.000		Recovery =	6.63%
Target Compounds			
2) H TPH (C10-C28)	4.817	1082808472	1100.054 ppm
3) H TPH (>C28-C40)	9.372	246306637	452.576 ppm
6) H TPH (Diesel)	4.817	1082011994	1099.622 ppm
7) H TPH (Motor Oil)	9.372	245444604	450.685 ppm

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

8.15
8

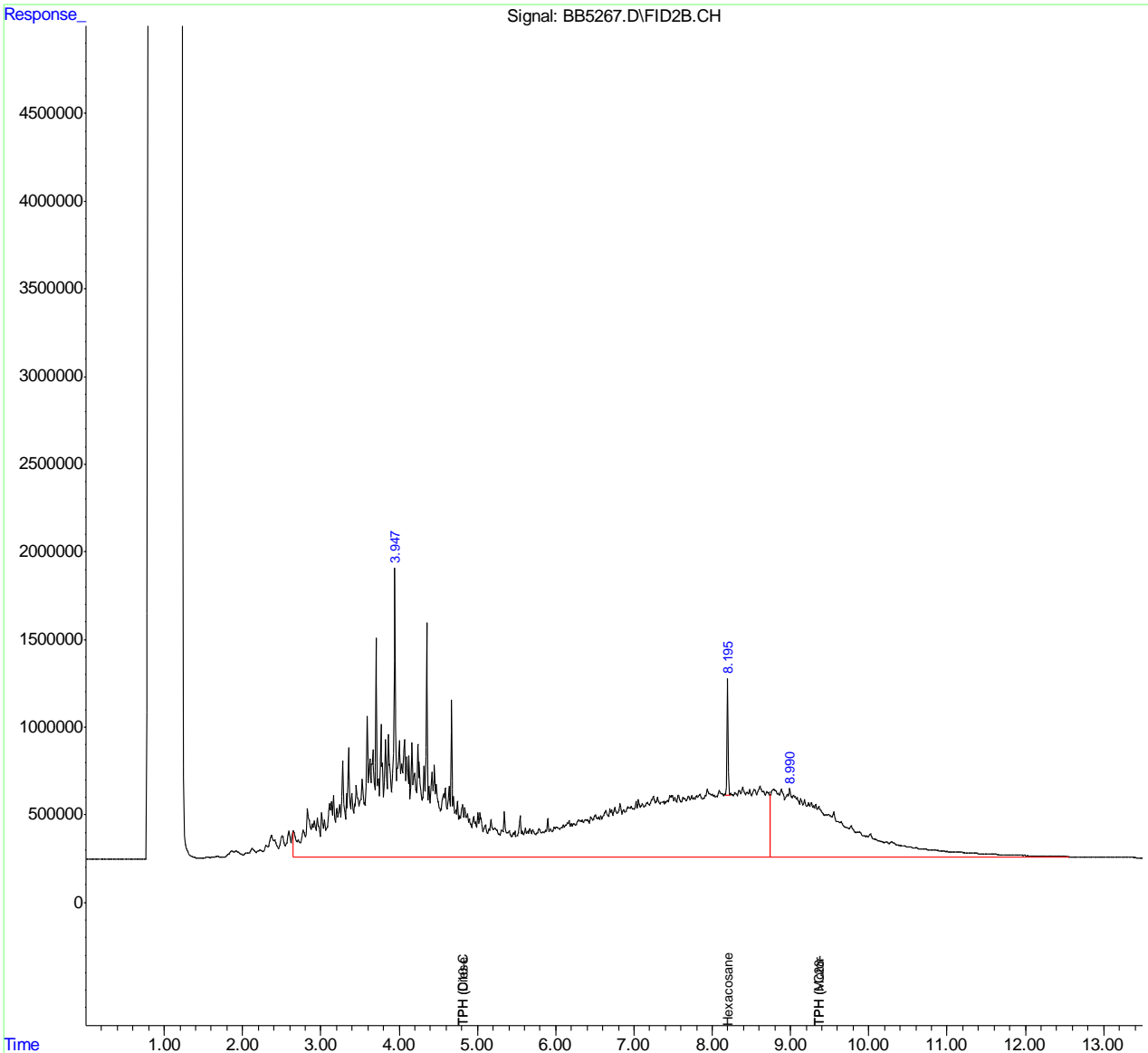
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5267.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 1:05 am
Operator : FEIL
Sample : C46446-5 10X
Misc : OP14620,GBB172,30.29,,,1,10,S
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:39:03 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.1.5
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5275.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 3:46 am
Operator : FEIL
Sample : C46446-8 20X
Misc : OP14620,GBB172,30.12,,,1,20,S
ALS Vial : 37 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:50:55 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
1) S Hexacosane	8.193	3390153	3.413 ppm	m
Spiked Amount	100.000	Recovery	=	3.41%
Target Compounds				
2) H TPH (C10-C28)	4.817	119748160	121.655 ppm	
3) H TPH (>C28-C40)	9.372	189684845	348.536 ppm	
7) H TPH (Motor Oil)	9.372	307503959	564.638 ppm	

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

8.16
8

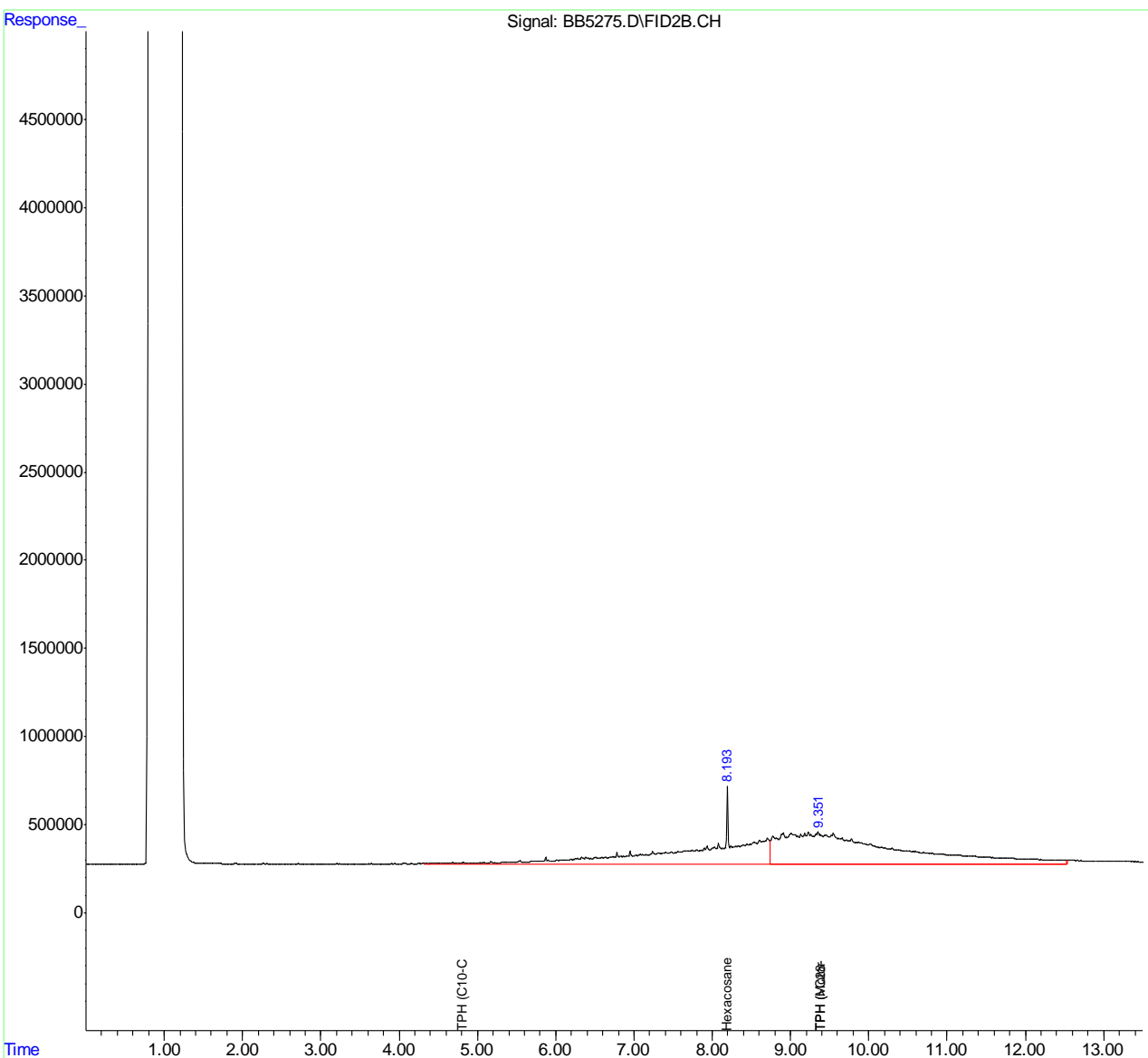
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5275.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 3:46 am
Operator : FEIL
Sample : C46446-8 20X
Misc : OP14620,GBB172,30.12,,,1,20,S
ALS Vial : 37 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:50:55 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

8.16
8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB173\
Data File : BB5299.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 1:41 pm
Operator : NHATN
Sample : C46446-9
Misc : OP14620,GBB173,30.33,,,1,1,S
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 13 07:57:33 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.202	89633599	90.244 ppm
Spiked Amount	100.000	Recovery =	90.24%
Target Compounds			
2) H TPH (C10-C28)	4.817	40000387	40.637 ppm
3) H TPH (>C28-C40)	9.372	60510495	111.185 ppm
6) H TPH (Diesel)	4.817	40000387	40.651 ppm
7) H TPH (Motor Oil)	9.372	60510495	111.109 ppm

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

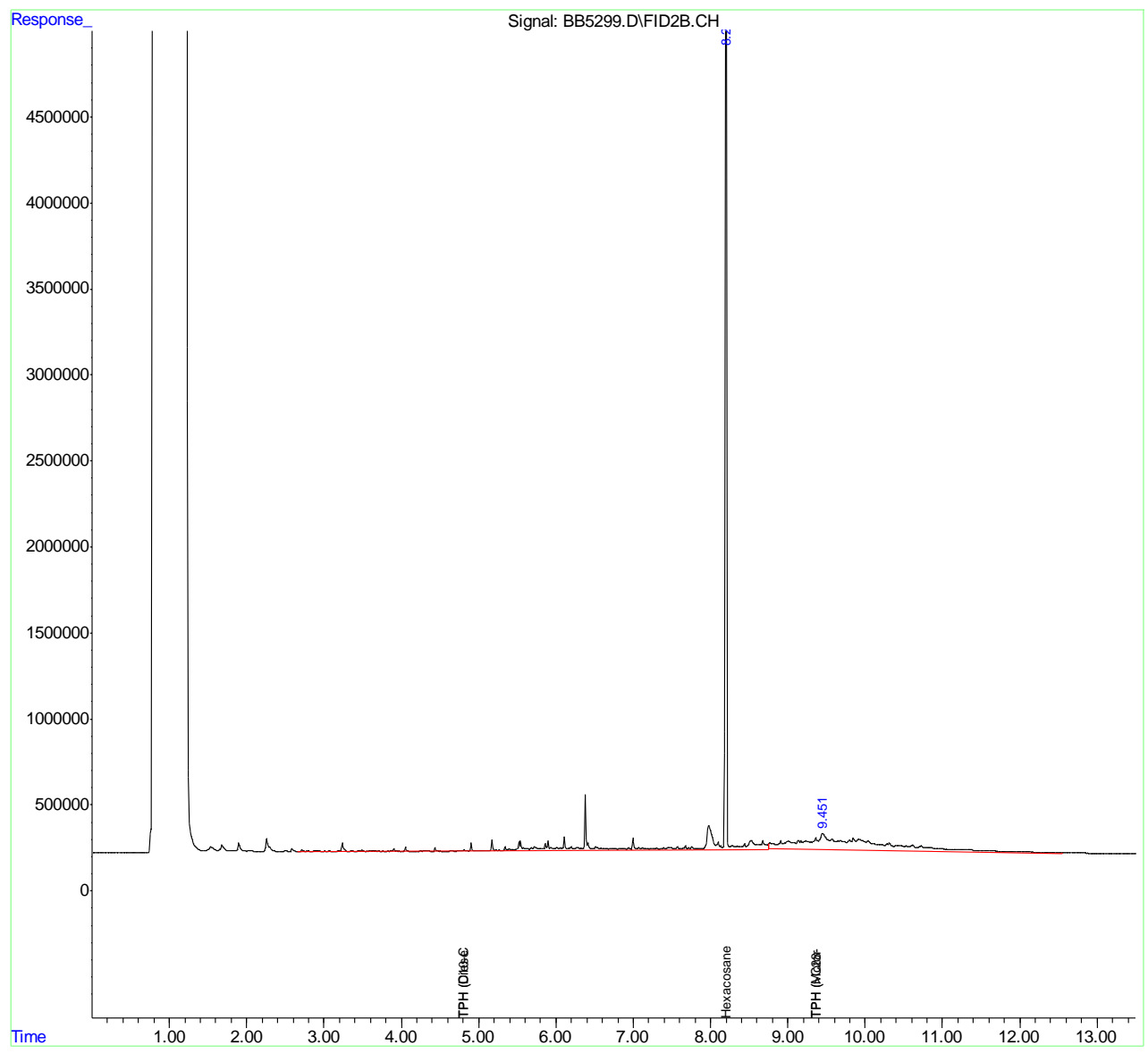
8.17
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB173\
Data File : BB5299.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 1:41 pm
Operator : NHATN
Sample : C46446-9
Misc : OP14620,GBB173,30.33,,,1,1,S
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 13 07:57:33 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: from column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



8.17
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
Data File : BB5271.D
Signal(s) : FID2B.CH
Acq On : 12 Jul 2016 2:26 am
Operator : FEIL
Sample : OP14620-MB
Misc : OP14620,GBB172,30.00,,,1,1,S
ALS Vial : 34 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 12 14:44:07 2016
Quant Method : C:\msdchem\1\METHODS\GBB169.M
Quant Title : DRO calibration: fron column
QLast Update : Fri Jul 08 13:39:47 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S Hexacosane	8.201	75576260	76.091 ppm
Spiked Amount	100.000	Recovery	= 76.09%
Target Compounds			
2) H TPH (C10-C28)	4.817	29503841	29.974 ppm
3) H TPH (>C28-C40)	9.372	22158936	40.716 ppm
6) H TPH (Diesel)	4.817	29503841	29.984 ppm
7) H TPH (Motor Oil)	9.372	21176888	38.885 ppm

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

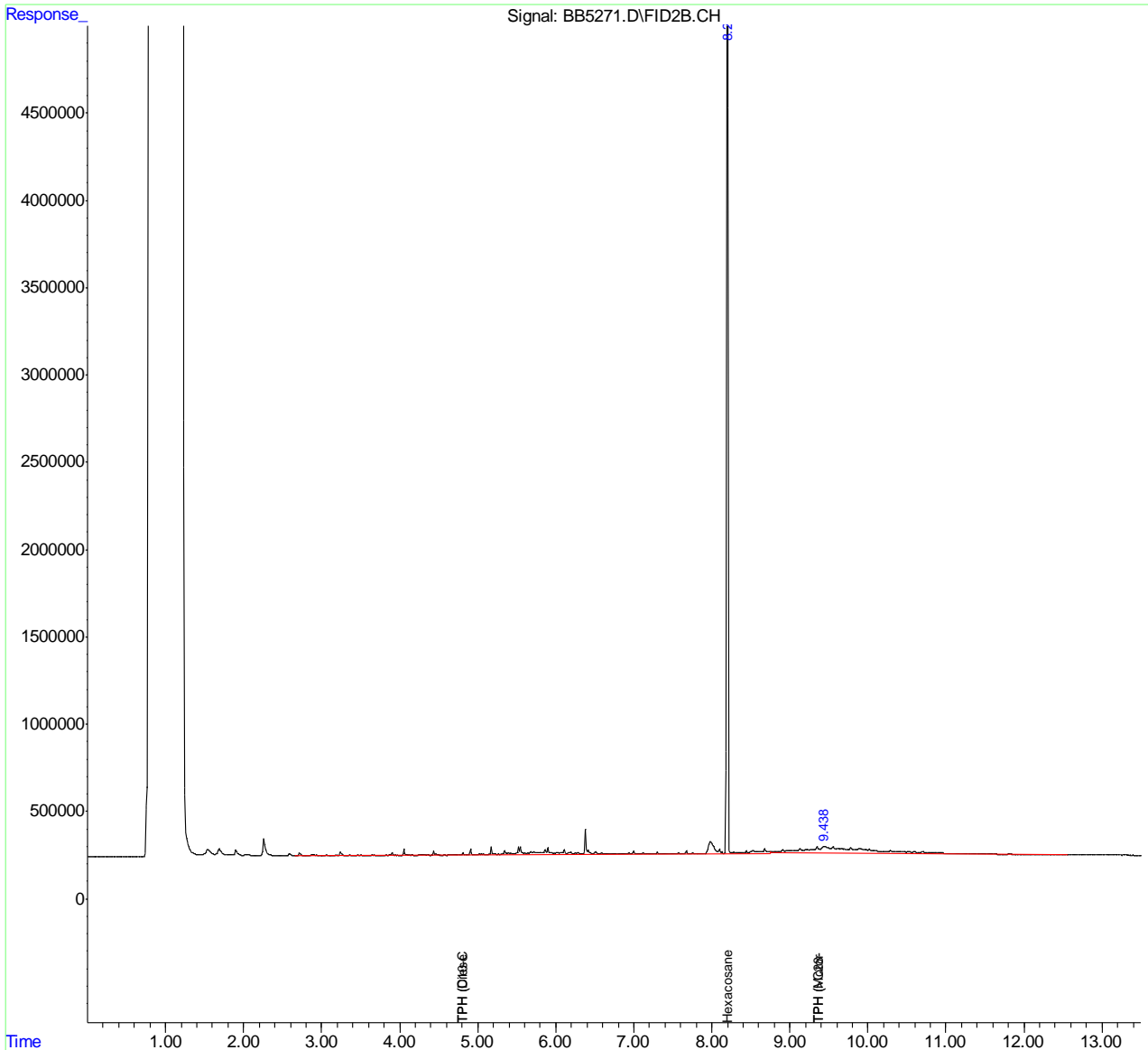
8.2.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\GBB172\
 Data File : BB5271.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jul 2016 2:26 am
 Operator : FEIL
 Sample : OP14620-MB
 Misc : OP14620,GBB172,30.00,,,1,1,S
 ALS Vial : 34 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Jul 12 14:44:07 2016
 Quant Method : C:\msdchem\1\METHODS\GBB169.M
 Quant Title : DRO calibration: fron column
 QLast Update : Fri Jul 08 13:39:47 2016
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C46446
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 07/11/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.54	1.5		
Antimony	2.0	.16	.18		
Arsenic	2.0	.17	.17		
Barium	20	.025	.09		
Beryllium	1.0	.019	.01		
Boron	10	.27	.15		
Cadmium	1.0	.032	.031		
Calcium	500	1.9	4.5		
Chromium	1.0	.12	.054		
Cobalt	1.0	.049	.025		
Copper	2.5	.1	.15		
Iron	20	.51	.76		
Lead	2.0	.11	.14	-0.030	<2.0
Magnesium	500	3.7	2.1		
Manganese	1.5	.021	.026		
Molybdenum	2.0	.11	.04		
Nickel	1.0	.045	.047		
Potassium	1000	2.9	4.6		
Selenium	2.0	.49	.33		
Silicon	20	.22	.43		
Silver	1.0	.089	.067		
Sodium	1000	2.6	1.2		
Strontium	1.0	.014	.018		
Thallium	2.0	.39	.12		
Tin	50	.3	.28		
Titanium	1.0	.076	.13		
Vanadium	1.0	.043	.074		
Zinc	2.0	.11	.22		

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46446-9 Original MS	SpikeLot MPIR5	% Rec	QC Limits	
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron					
Lead	4.3	47.5	46.3	93.3	75-125
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	anr				
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.1.2
 9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	C46446-9 Original MSD	SpikeLot MPIR5	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	4.3	46.8	47.2	90.1	1.5	20
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	anr					
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.1.2
 9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/11/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	45.3	50	90.6	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

9.1.3
 9

SERIAL DILUTION RESULTS SUMMARY

Login Number: C46446
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11596
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 07/11/16

Metal	C46446-9 Original	SDL 1:5	%DIF	QC Limits
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Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	46.0	48.4	5.2	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11596: C46446-1, C46446-2, C46446-3, C46446-4, C46446-5, C46446-8, C46446-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

9.1.4
 9

Technical Report for

ATC Group Services

Premier Hyundai 2820 Broadway Oakland

SGS Accutest Job Number: C46447

Sampling Date: 07/08/16

Report to:

ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA
gabe.stivala@atcassociates.com

ATTN: Gabe Stivala

Total number of pages in report: **39**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

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2

3

4

5



Sample Summary

ATC Group Services

Job No: C46447

Premier Hyundai 2820 Broadway Oakland

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
C46447-1	07/08/16	10:20	07/08/16	AQ	Ground Water	B30W
C46447-2	07/08/16	08:00	07/08/16	AQ	Ground Water	B28W

Summary of Hits

Job Number: C46447
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/08/16

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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C46447-1 B30W

Acetone ^a	79.8	20	4.0	ug/l	SW846 8260B
Benzene ^a	555	10	2.0	ug/l	SW846 8260B
n-Butylbenzene ^a	0.45 J	2.0	0.20	ug/l	SW846 8260B
sec-Butylbenzene ^a	0.78 J	2.0	0.20	ug/l	SW846 8260B
Chloroethane ^a	0.61 J	1.0	0.20	ug/l	SW846 8260B
Chloroform ^a	0.53 J	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane ^a	6.9	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloropropane ^a	1.4	1.0	0.20	ug/l	SW846 8260B
Di-Isopropyl ether ^a	1.7 J	2.0	0.22	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	2.8	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene ^a	61.4	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene ^a	4.9	1.0	0.20	ug/l	SW846 8260B
p-Isopropyltoluene ^a	0.27 J	2.0	0.20	ug/l	SW846 8260B
Methyl ethyl ketone ^a	10.4	10	2.0	ug/l	SW846 8260B
Naphthalene ^a	3.4 J	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene ^a	4.8	2.0	0.20	ug/l	SW846 8260B
Tert-Butyl Alcohol ^a	7.3 J	10	2.4	ug/l	SW846 8260B
1,2,4-Trimethylbenzene ^a	12.2	2.0	0.20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene ^a	3.9	2.0	0.20	ug/l	SW846 8260B
Tetrachloroethylene ^a	0.34 J	1.0	0.30	ug/l	SW846 8260B
Toluene ^a	81.4	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene ^a	80.3	1.0	0.20	ug/l	SW846 8260B
Xylene (total) ^a	125	2.0	0.46	ug/l	SW846 8260B
TPH-GRO (C6-C10) ^a	3690	500	250	ug/l	SW846 8260B

C46447-2 B28W

Acetone ^b	482 J	500	100	ug/l	SW846 8260B
Benzene ^b	1410	25	5.0	ug/l	SW846 8260B
n-Butylbenzene ^b	24.1 J	50	5.0	ug/l	SW846 8260B
sec-Butylbenzene ^b	17.6 J	50	5.0	ug/l	SW846 8260B
Ethylbenzene ^b	1340	25	5.0	ug/l	SW846 8260B
Isopropylbenzene ^b	168	25	5.0	ug/l	SW846 8260B
p-Isopropyltoluene ^b	27.3 J	50	5.0	ug/l	SW846 8260B
Methyl ethyl ketone ^b	95.0 J	250	50	ug/l	SW846 8260B
Naphthalene ^b	160	130	13	ug/l	SW846 8260B
n-Propylbenzene ^b	216	50	5.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene ^b	1140	50	5.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene ^b	369	50	5.0	ug/l	SW846 8260B
Toluene ^b	4900	100	20	ug/l	SW846 8260B
Xylene (total) ^b	5790	200	46	ug/l	SW846 8260B
TPH-GRO (C6-C10) ^b	76100	5000	2500	ug/l	SW846 8260B

Summary of Hits

Job Number: C46447
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/08/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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- (a) Sample vial contained more than 0.5cm of sediment.
- (b) Sample vial contained more than 0.5cm of sediment.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: B30W		Date Sampled: 07/08/16
Lab Sample ID: C46447-1		Date Received: 07/08/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	R40970.D	1	07/08/16	CV	n/a	n/a	VR1577
Run #2 ^a	R41028.D	10	07/12/16	CV	n/a	n/a	VR1581

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	79.8	20	4.0	ug/l	
71-43-2	Benzene	555 ^b	10	2.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	0.45	2.0	0.20	ug/l	J
135-98-8	sec-Butylbenzene	0.78	2.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.61	1.0	0.20	ug/l	J
67-66-3	Chloroform	0.53	1.0	0.20	ug/l	J
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	6.9	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	1.4	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	1.7	2.0	0.22	ug/l	J
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.8	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B30W	
Lab Sample ID: C46447-1	Date Sampled: 07/08/16
Matrix: AQ - Ground Water	Date Received: 07/08/16
Method: SW846 8260B	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%	102%	88-112%
460-00-4	4-Bromofluorobenzene	103%	96%	79-114%

- (a) Sample vial contained more than 0.5cm of sediment.
- (b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28W		Date Sampled: 07/08/16
Lab Sample ID: C46447-2		Date Received: 07/08/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	R41003.D	25	07/11/16	CV	n/a	n/a	VR1579
Run #2 ^a	R41029.D	100	07/12/16	CV	n/a	n/a	VR1581

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	482	500	100	ug/l	J
71-43-2	Benzene	1410	25	5.0	ug/l	
108-86-1	Bromobenzene	ND	25	5.0	ug/l	
74-97-5	Bromochloromethane	ND	25	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	25	5.0	ug/l	
75-25-2	Bromoform	ND	25	5.5	ug/l	
104-51-8	n-Butylbenzene	24.1	50	5.0	ug/l	J
135-98-8	sec-Butylbenzene	17.6	50	5.0	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	7.0	ug/l	
108-90-7	Chlorobenzene	ND	25	5.0	ug/l	
75-00-3	Chloroethane ^b	ND	25	5.0	ug/l	
67-66-3	Chloroform	ND	25	5.0	ug/l	
95-49-8	o-Chlorotoluene	ND	50	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	50	6.5	ug/l	
56-23-5	Carbon tetrachloride	ND	25	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	10	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	5.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	50	5.5	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	25	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	25	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	25	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	25	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	25	5.0	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B28W		Date Sampled: 07/08/16
Lab Sample ID: C46447-2		Date Received: 07/08/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%	103%	88-112%
460-00-4	4-Bromofluorobenzene	97%	96%	79-114%

- (a) Sample vial contained more than 0.5cm of sediment.
- (b) Associated BS recovery outside of laboratory control limits (high bias); analyte not detected in sample.
- (c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Report To					Analysis Request																																																																																																																											
Attn: <u>Gabe Stivala</u>					Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B HVOCs by <input type="checkbox"/> EPA 8260B EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol TEPH: EPA 8015B <input type="checkbox"/> Slick Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other Semi-Volatile Organics GC/MS <input type="checkbox"/> EPA 8270C PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM Oil and Grease (EPA 1654/9071) <input type="checkbox"/> Petroleum <input type="checkbox"/> Total Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 CAM/7 Metals (EPA 6010/7470/7471) Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 6007 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> CRCPA <input type="checkbox"/> Other: Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (CP-HHS) <input type="checkbox"/> WET (STLC) <input type="checkbox"/> WET (OI) <input type="checkbox"/> TCLP Hex. Chrom by <input type="checkbox"/> EPA 7199 <input type="checkbox"/> or EPA 7199 pH <input type="checkbox"/> 9040 <input type="checkbox"/> SMM4500 Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄ <input type="checkbox"/> Perchlorate by EPA 314.0																																																																																																																											
Company: <u>ATC Group Services</u>																																																																																																																																
Address: <u>915 Highland Pointe Dr, Suite 250, Roseville</u>																																																																																																																																
Email: <u>gabe.stivala@atcassacities.com</u>																																																																																																																																
Bill To:		Sampled By: <u>JK</u>																																																																																																																														
Attn:		Phone: <u>916-724-5297</u>																																																																																																																														
Sample ID	Date	Time	Mat /ix	Preserv																																																																																																																												
<u>1</u> B30W	<u>7-8-16</u>	<u>1020</u>	<u>W</u>	<u>HCl</u>																																																																																																																												
<u>2</u> B28W	<u>7-8-16</u>	<u>0800</u>	<u>W</u>	<u>HCl</u>																																																																																																																												
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Temp: 3.2/4.2

SGS Accutest Sample Receipt Summary

Job Number: C46447

Client: ATC GROUP SERVICES LLC

Project: 915 HIGHLAND POINTE DR. SUITE 250 ROSEVIL

Date / Time Received: 7/8/2016 1:05:00 PM

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (3.2/4.2)

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Therm ID: | IR3; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

C46447: Chain of Custody

Page 2 of 2

4.1
4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-MB	R40959.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

Method Blank Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-MB	R40959.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Compound	Result	RL	MDL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 80-123%
2037-26-5	Toluene-D8	106% 88-112%

Method Blank Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-MB	R40959.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	94% 79-114%

5.1.1
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Method Blank Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1579-MB	R40991.D	1	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1579-MB	R40991.D	1	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 80-123%
2037-26-5	Toluene-D8	104% 88-112%
460-00-4	4-Bromofluorobenzene	94% 79-114%

Method Blank Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-MB	R41021.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1, C46447-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	103%	80-123%
2037-26-5	Toluene-D8	104%	88-112%
460-00-4	4-Bromofluorobenzene	95%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-BS	R40955.D	1	07/08/16	CV	n/a	n/a	VR1577
VR1577-BSD	R40956.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	88.0	110	88.3	110	0	55-147/17
108-86-1	Bromobenzene	20	19.6	98	19.4	97	1	80-123/10
74-97-5	Bromochloromethane	20	20.1	101	20.1	101	0	79-124/10
75-27-4	Bromodichloromethane	20	20.7	104	20.4	102	1	75-121/10
75-25-2	Bromoform	20	15.7	79	15.6	78	1	62-127/10
104-51-8	n-Butylbenzene	20	22.4	112	21.6	108	4	74-129/10
135-98-8	sec-Butylbenzene	20	21.6	108	20.8	104	4	75-128/11
98-06-6	tert-Butylbenzene	20	19.4	97	18.8	94	3	74-127/11
108-90-7	Chlorobenzene	20	19.7	99	19.1	96	3	79-119/10
75-00-3	Chloroethane	20	22.3	112	21.9	110	2	60-115/14
67-66-3	Chloroform	20	21.6	108	21.5	108	0	75-122/10
95-49-8	o-Chlorotoluene	20	20.7	104	20.1	101	3	76-125/12
106-43-4	p-Chlorotoluene	20	21.6	108	21.2	106	2	76-126/11
56-23-5	Carbon tetrachloride	20	20.2	101	19.7	99	3	72-128/13
75-34-3	1,1-Dichloroethane	20	22.2	111	21.9	110	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	20.0	100	19.1	96	5	62-125/13
563-58-6	1,1-Dichloropropene	20	21.0	105	20.1	101	4	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	20	17.1	86	17.1	86	0	64-129/11
106-93-4	1,2-Dibromoethane	20	20.0	100	19.9	100	1	81-124/10
107-06-2	1,2-Dichloroethane	20	21.1	106	20.9	105	1	74-122/10
78-87-5	1,2-Dichloropropane	20	21.0	105	20.8	104	1	75-123/10
142-28-9	1,3-Dichloropropane	20	21.3	107	21.1	106	1	81-127/11
108-20-3	Di-Isopropyl ether	20	21.5	108	21.3	107	1	69-126/10
594-20-7	2,2-Dichloropropane	20	19.5	98	19.5	98	0	66-130/12
124-48-1	Dibromochloromethane	20	16.7	84	16.6	83	1	76-124/10
75-71-8	Dichlorodifluoromethane	20	20.5	103	19.1	96	7	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	21.5	108	21.2	106	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.2	106	20.9	105	1	76-131/10
541-73-1	m-Dichlorobenzene	20	19.9	100	19.5	98	2	79-121/10
95-50-1	o-Dichlorobenzene	20	19.5	98	19.1	96	2	79-120/10
106-46-7	p-Dichlorobenzene	20	19.7	99	19.4	97	2	79-120/10
156-60-5	trans-1,2-Dichloroethylene	20	18.9	95	18.6	93	2	67-116/11
10061-02-6	trans-1,3-Dichloropropene	20	20.6	103	20.6	103	0	73-125/10
100-41-4	Ethylbenzene	20	21.1	106	20.3	102	4	78-123/10
637-92-3	Ethyl Tert Butyl Ether	20	20.4	102	20.7	104	1	75-126/11
591-78-6	2-Hexanone	80	94.8	119	95.0	119	0	71-145/12

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-BS	R40955.D	1	07/08/16	CV	n/a	n/a	VR1577
VR1577-BSD	R40956.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	18.1	91	17.9	90	1	70-130/12
98-82-8	Isopropylbenzene	20	20.6	103	19.8	99	4	77-125/10
99-87-6	p-Isopropyltoluene	20	21.1	106	20.3	102	4	76-126/10
108-10-1	4-Methyl-2-pentanone	80	89.4	112	90.2	113	1	70-142/11
74-83-9	Methyl bromide	20	21.1	106	21.0	105	0	65-124/13
74-87-3	Methyl chloride	20	18.1	91	17.4	87	4	47-143/20
74-95-3	Methylene bromide	20	20.9	105	20.7	104	1	80-125/10
75-09-2	Methylene chloride	20	20.7	104	20.7	104	0	65-124/15
78-93-3	Methyl ethyl ketone	80	87.4	109	90.4	113	3	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	19.2	96	1	73-120/10
91-20-3	Naphthalene	20	18.8	94	18.8	94	0	66-120/12
103-65-1	n-Propylbenzene	20	21.5	108	20.7	104	4	75-125/10
100-42-5	Styrene	20	20.3	102	19.9	100	2	73-126/10
994-05-8	Tert-Amyl Methyl Ether	20	20.4	102	20.6	103	1	77-126/10
75-65-0	Tert-Butyl Alcohol	100	94.7	95	102	102	7	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	20	19.6	98	19.3	97	2	79-126/10
71-55-6	1,1,1-Trichloroethane	20	21.5	108	21.0	105	2	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	21.9	110	21.8	109	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	21.3	107	21.0	105	1	79-122/10
87-61-6	1,2,3-Trichlorobenzene	20	17.9	90	17.6	88	2	70-128/12
96-18-4	1,2,3-Trichloropropane	20	19.2	96	19.3	97	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	20	18.2	91	17.9	90	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	20.6	103	19.9	100	3	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	20.8	104	20.2	101	3	79-130/10
127-18-4	Tetrachloroethylene	20	19.3	97	18.7	94	3	72-124/13
108-88-3	Toluene	20	20.4	102	19.7	99	3	78-121/10
79-01-6	Trichloroethylene	20	20.8	104	20.2	101	3	75-119/10
75-69-4	Trichlorofluoromethane	20	22.5	113	21.9	110	3	68-130/19
75-01-4	Vinyl chloride	20	24.6	123	23.6	118	4	57-137/18
1330-20-7	Xylene (total)	60	60.7	101	58.8	98	3	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	110%	80-123%
2037-26-5	Toluene-D8	103%	102%	88-112%

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-BS	R40955.D	1	07/08/16	CV	n/a	n/a	VR1577
VR1577-BSD	R40956.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	100%	99%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1579-BS	R40988.D	1	07/11/16	CV	n/a	n/a	VR1579
VR1579-BSD	R40989.D	1	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	91.4	114	93.0	116	2	55-147/17
71-43-2	Benzene	20	19.4	97	20.4	102	5	76-120/10
108-86-1	Bromobenzene	20	19.3	97	19.9	100	3	80-123/10
74-97-5	Bromochloromethane	20	20.4	102	22.0	110	8	79-124/10
75-27-4	Bromodichloromethane	20	20.4	102	21.1	106	3	75-121/10
75-25-2	Bromoform	20	15.9	80	15.9	80	0	62-127/10
104-51-8	n-Butylbenzene	20	19.4	97	20.2	101	4	74-129/10
135-98-8	sec-Butylbenzene	20	18.7	94	19.5	98	4	75-128/11
98-06-6	tert-Butylbenzene	20	17.4	87	17.6	88	1	74-127/11
108-90-7	Chlorobenzene	20	18.9	95	19.3	97	2	79-119/10
75-00-3	Chloroethane	20	22.5	113	24.1	121* a	7	60-115/14
67-66-3	Chloroform	20	20.9	105	22.6	113	8	75-122/10
95-49-8	o-Chlorotoluene	20	20.2	101	19.8	99	2	76-125/12
106-43-4	p-Chlorotoluene	20	19.6	98	20.1	101	3	76-126/11
56-23-5	Carbon tetrachloride	20	17.6	88	19.0	95	8	72-128/13
75-34-3	1,1-Dichloroethane	20	20.7	104	22.5	113	8	70-121/10
75-35-4	1,1-Dichloroethylene	20	17.1	86	18.9	95	10	62-125/13
563-58-6	1,1-Dichloropropene	20	17.9	90	19.3	97	8	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	20	17.6	88	17.4	87	1	64-129/11
106-93-4	1,2-Dibromoethane	20	20.0	100	20.0	100	0	81-124/10
107-06-2	1,2-Dichloroethane	20	20.8	104	21.2	106	2	74-122/10
78-87-5	1,2-Dichloropropane	20	20.4	102	21.2	106	4	75-123/10
142-28-9	1,3-Dichloropropane	20	20.9	105	21.0	105	0	81-127/11
108-20-3	Di-Isopropyl ether	20	20.7	104	22.1	111	7	69-126/10
594-20-7	2,2-Dichloropropane	20	18.0	90	20.0	100	11	66-130/12
124-48-1	Dibromochloromethane	20	16.6	83	16.8	84	1	76-124/10
75-71-8	Dichlorodifluoromethane	20	20.0	100	20.0	100	0	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.9	105	22.6	113	8	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.0	105	21.6	108	3	76-131/10
541-73-1	m-Dichlorobenzene	20	19.2	96	19.8	99	3	79-121/10
95-50-1	o-Dichlorobenzene	20	19.3	97	19.6	98	2	79-120/10
106-46-7	p-Dichlorobenzene	20	19.2	96	19.7	99	3	79-120/10
156-60-5	trans-1,2-Dichloroethylene	20	17.5	88	19.2	96	9	67-116/11
10061-02-6	trans-1,3-Dichloropropene	20	20.2	101	20.7	104	2	73-125/10
100-41-4	Ethylbenzene	20	19.2	96	19.8	99	3	78-123/10
637-92-3	Ethyl Tert Butyl Ether	20	20.5	103	22.1	111	8	75-126/11

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1579-BS	R40988.D	1	07/11/16	CV	n/a	n/a	VR1579
VR1579-BSD	R40989.D	1	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	94.1	118	91.5	114	3	71-145/12
87-68-3	Hexachlorobutadiene	20	16.3	82	16.9	85	4	70-130/12
98-82-8	Isopropylbenzene	20	18.3	92	19.0	95	4	77-125/10
99-87-6	p-Isopropyltoluene	20	18.6	93	19.4	97	4	76-126/10
108-10-1	4-Methyl-2-pentanone	80	89.5	112	89.6	112	0	70-142/11
74-83-9	Methyl bromide	20	21.7	109	23.0	115	6	65-124/13
74-87-3	Methyl chloride	20	18.4	92	19.8	99	7	47-143/20
74-95-3	Methylene bromide	20	20.9	105	21.3	107	2	80-125/10
75-09-2	Methylene chloride	20	20.6	103	22.0	110	7	65-124/15
78-93-3	Methyl ethyl ketone	80	91.6	115	94.4	118	3	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	19.5	98	20.6	103	5	73-120/10
91-20-3	Naphthalene	20	19.2	96	19.1	96	1	66-120/12
103-65-1	n-Propylbenzene	20	19.0	95	19.8	99	4	75-125/10
100-42-5	Styrene	20	19.4	97	19.9	100	3	73-126/10
994-05-8	Tert-Amyl Methyl Ether	20	20.7	104	22.3	112	7	77-126/10
75-65-0	Tert-Butyl Alcohol	100	99.8	100	106	106	6	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	20	19.4	97	19.8	99	2	79-126/10
71-55-6	1,1,1-Trichloroethane	20	19.3	97	21.5	108	11	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	21.9	110	21.7	109	1	78-127/10
79-00-5	1,1,2-Trichloroethane	20	20.9	105	20.8	104	0	79-122/10
87-61-6	1,2,3-Trichlorobenzene	20	17.9	90	18.1	91	1	70-128/12
96-18-4	1,2,3-Trichloropropane	20	19.5	98	19.4	97	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	20	18.0	90	18.4	92	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	19.2	96	19.9	100	4	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	19.1	96	19.8	99	4	79-130/10
127-18-4	Tetrachloroethylene	20	17.2	86	17.8	89	3	72-124/13
79-01-6	Trichloroethylene	20	19.0	95	20.0	100	5	75-119/10
75-69-4	Trichlorofluoromethane	20	23.4	117	24.9	125	6	68-130/19
75-01-4	Vinyl chloride	20	24.8	124	26.3	132	6	57-137/18

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	110%	115%	80-123%
2037-26-5	Toluene-D8	101%	99%	88-112%
460-00-4	4-Bromofluorobenzene	99%	99%	79-114%

* = Outside of Control Limits.

5.2.2
 5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1579-BS	R40988.D	1	07/11/16	CV	n/a	n/a	VR1579
VR1579-BSD	R40989.D	1	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

(a) Outside laboratory control limits (high bias); but within marginal exceedence criteria.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-BS	R41018.D	1	07/12/16	CV	n/a	n/a	VR1581
VR1581-BSD	R41019.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1, C46447-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.3	97	18.5	93	4	76-120/10
108-88-3	Toluene	20	18.9	95	18.3	92	3	78-121/10
1330-20-7	Xylene (total)	60	56.2	94	54.0	90	4	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	107%	80-123%
2037-26-5	Toluene-D8	101%	101%	88-112%
460-00-4	4-Bromofluorobenzene	99%	99%	79-114%

* = Outside of Control Limits.

5.2.3
 5

Laboratory Control Sample Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1577-LCS	R40958.D	1	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	80-123%
2037-26-5	Toluene-D8	104%	88-112%
460-00-4	4-Bromofluorobenzene	96%	79-114%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1579-LCS	R40990.D	1	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	80-123%
2037-26-5	Toluene-D8	103%	88-112%
460-00-4	4-Bromofluorobenzene	96%	79-114%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1581-LCS	R41020.D	1	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1, C46447-2

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	140	112	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	80-123%
2037-26-5	Toluene-D8	103%	88-112%
460-00-4	4-Bromofluorobenzene	95%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-8MS	R40974.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8MSD	R40975.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8 ^a	R40968.D	200	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Compound	C46413-8 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		16000	15900	99	16000	15600	98	2	55-147/17
108-86-1	Bromobenzene	ND		4000	4090	102	4000	4040	101	1	80-123/10
74-97-5	Bromochloromethane	ND		4000	4150	104	4000	4020	101	3	79-124/10
75-27-4	Bromodichloromethane	ND		4000	3900	98	4000	3900	98	0	75-121/10
75-25-2	Bromoform	ND		4000	2770	69	4000	3030	76	9	62-127/10
104-51-8	n-Butylbenzene	ND		4000	4010	100	4000	3970	99	1	74-129/10
135-98-8	sec-Butylbenzene	ND		4000	4020	101	4000	3980	100	1	75-128/11
98-06-6	tert-Butylbenzene	ND		4000	3810	95	4000	3760	94	1	74-127/11
108-90-7	Chlorobenzene	ND		4000	3970	99	4000	3900	98	2	79-119/10
75-00-3	Chloroethane	ND		4000	4110	103	4000	4180	105	2	60-115/14
67-66-3	Chloroform	ND		4000	4080	102	4000	3960	99	3	75-122/10
95-49-8	o-Chlorotoluene	ND		4000	4130	103	4000	4140	104	0	76-125/12
106-43-4	p-Chlorotoluene	ND		4000	3980	100	4000	3950	99	1	76-126/11
56-23-5	Carbon tetrachloride	ND		4000	3970	99	4000	3930	98	1	72-128/13
75-34-3	1,1-Dichloroethane	ND		4000	4060	102	4000	3940	99	3	70-121/10
75-35-4	1,1-Dichloroethylene	ND		4000	3790	95	4000	3570	89	6	62-125/13
563-58-6	1,1-Dichloropropene	ND		4000	3910	98	4000	3780	95	3	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		4000	3310	83	4000	3370	84	2	64-129/11
106-93-4	1,2-Dibromoethane	ND		4000	4070	102	4000	3990	100	2	81-124/10
107-06-2	1,2-Dichloroethane	ND		4000	3970	99	4000	3910	98	2	74-122/10
78-87-5	1,2-Dichloropropane	ND		4000	4060	102	4000	3950	99	3	75-123/10
142-28-9	1,3-Dichloropropane	ND		4000	4150	104	4000	4110	103	1	81-127/11
108-20-3	Di-Isopropyl ether	ND		4000	3900	98	4000	3780	95	3	69-126/10
594-20-7	2,2-Dichloropropane	ND		4000	3600	90	4000	3470	87	4	66-130/12
124-48-1	Dibromochloromethane	ND		4000	3170	79	4000	3320	83	5	76-124/10
75-71-8	Dichlorodifluoromethane	ND		4000	2890	72	4000	3290	82	13	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		4000	4180	105	4000	4030	101	4	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		4000	4090	102	4000	4040	101	1	76-131/10
541-73-1	m-Dichlorobenzene	ND		4000	4050	101	4000	3980	100	2	79-121/10
95-50-1	o-Dichlorobenzene	ND		4000	4030	101	4000	3940	99	2	79-120/10
106-46-7	p-Dichlorobenzene	ND		4000	4010	100	4000	3960	99	1	79-120/10
156-60-5	trans-1,2-Dichloroethylene	ND		4000	3680	92	4000	3530	88	4	67-116/11
10061-02-6	trans-1,3-Dichloropropene	ND		4000	3950	99	4000	3970	99	1	73-125/10
100-41-4	Ethylbenzene	141	J	4000	4280	103	4000	4160	100	3	78-123/10
637-92-3	Ethyl Tert Butyl Ether	ND		4000	3980	100	4000	3870	97	3	75-126/11
591-78-6	2-Hexanone	ND		16000	17500	109	16000	17700	111	1	71-145/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-8MS	R40974.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8MSD	R40975.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8 ^a	R40968.D	200	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Compound	C46413-8 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
87-68-3	Hexachlorobutadiene	ND	4000	3490	87	4000	3420	86	2	70-130/12	
98-82-8	Isopropylbenzene	ND	4000	3960	99	4000	3890	97	2	77-125/10	
99-87-6	p-Isopropyltoluene	ND	4000	4020	101	4000	3980	100	1	76-126/10	
108-10-1	4-Methyl-2-pentanone	ND	16000	16700	104	16000	16600	104	1	70-142/11	
74-83-9	Methyl bromide	ND	4000	4100	103	4000	4090	102	0	65-124/13	
74-87-3	Methyl chloride	ND	4000	3120	78	4000	3780	95	19	47-143/20	
74-95-3	Methylene bromide	ND	4000	4140	104	4000	4030	101	3	80-125/10	
75-09-2	Methylene chloride	ND	4000	4020	101	4000	3850	96	4	65-124/15	
78-93-3	Methyl ethyl ketone	ND	16000	17000	106	16000	16900	106	1	66-145/12	
1634-04-4	Methyl Tert Butyl Ether	14600	4000	17700	78	4000	17500	73	1	73-120/10	
91-20-3	Naphthalene	ND	4000	4020	101	4000	3880	97	4	66-120/12	
103-65-1	n-Propylbenzene	ND	4000	4060	102	4000	4000	100	1	75-125/10	
100-42-5	Styrene	ND	4000	4000	100	4000	3950	99	1	73-126/10	
994-05-8	Tert-Amyl Methyl Ether	ND	4000	4100	103	4000	3990	100	3	77-126/10	
75-65-0	Tert-Butyl Alcohol	20000	20000	41300	107	20000	41300	107	0	52-148/18	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4000	4070	102	4000	4010	100	1	79-126/10	
71-55-6	1,1,1-Trichloroethane	ND	4000	4100	103	4000	4010	100	2	73-125/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4000	4240	106	4000	4230	106	0	78-127/10	
79-00-5	1,1,2-Trichloroethane	ND	4000	4140	104	4000	4060	102	2	79-122/10	
87-61-6	1,2,3-Trichlorobenzene	ND	4000	3630	91	4000	3600	90	1	70-128/12	
96-18-4	1,2,3-Trichloropropane	ND	4000	3910	98	4000	3910	98	0	66-127/10	
120-82-1	1,2,4-Trichlorobenzene	ND	4000	3670	92	4000	3620	91	1	72-125/11	
95-63-6	1,2,4-Trimethylbenzene	98.1	J	4000	4220	103	4000	4100	100	3	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND	4000	4140	104	4000	4080	102	1	79-130/10	
127-18-4	Tetrachloroethylene	ND	4000	3880	97	4000	3740	94	4	72-124/13	
108-88-3	Toluene	ND	4000	4130	103	4000	3970	99	4	78-121/10	
79-01-6	Trichloroethylene	ND	4000	4060	102	4000	3940	99	3	75-119/10	
75-69-4	Trichlorofluoromethane	ND	4000	3870	97	4000	4310	108	11	68-130/19	
75-01-4	Vinyl chloride	ND	4000	4060	102	4000	4420	111	8	57-137/18	
1330-20-7	Xylene (total)	316	J	12000	12700	103	12000	12200	99	4	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46413-8	Limits
1868-53-7	Dibromofluoromethane	103%	102%	108%	80-123%
2037-26-5	Toluene-D8	100%	100%	104%	88-112%

* = Outside of Control Limits.

5.4.1
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46413-8MS	R40974.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8MSD	R40975.D	200	07/08/16	CV	n/a	n/a	VR1577
C46413-8 ^a	R40968.D	200	07/08/16	CV	n/a	n/a	VR1577

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1

CAS No.	Surrogate Recoveries	MS	MSD	C46413-8	Limits
460-00-4	4-Bromofluorobenzene	99%	98%	95%	79-114%

(a) Sample vial contained more than 0.5cm of sediment.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46447-2MS	R41005.D	25	07/11/16	CV	n/a	n/a	VR1579
C46447-2MSD	R41006.D	25	07/11/16	CV	n/a	n/a	VR1579
C46447-2 ^a	R41003.D	25	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

CAS No.	Compound	C46447-2		Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q								
67-64-1	Acetone	482	J	2000	2960	124	2000	2650	108	11	55-147/17
71-43-2	Benzene	1410		500	2050	128* b	500	1870	92	9	76-120/10
108-86-1	Bromobenzene	ND		500	499	100	500	495	99	1	80-123/10
74-97-5	Bromochloromethane	ND		500	589	118	500	552	110	6	79-124/10
75-27-4	Bromodichloromethane	ND		500	636	127* c	500	574	115	10	75-121/10
75-25-2	Bromoform	ND		500	380	76	500	398	80	5	62-127/10
104-51-8	n-Butylbenzene	24.1	J	500	559	107	500	532	102	5	74-129/10
135-98-8	sec-Butylbenzene	17.6	J	500	490	94	500	489	94	0	75-128/11
98-06-6	tert-Butylbenzene	ND		500	398	80	500	732	146* c	59* c	74-127/11
108-90-7	Chlorobenzene	ND		500	509	102	500	497	99	2	79-119/10
75-00-3	Chloroethane	ND		500	650	130* c	500	590	118* c	10	60-115/14
67-66-3	Chloroform	ND		500	612	122	500	564	113	8	75-122/10
95-49-8	o-Chlorotoluene	ND		500	434	87	500	440	88	1	76-125/12
106-43-4	p-Chlorotoluene	ND		500	513	103	500	511	102	0	76-126/11
56-23-5	Carbon tetrachloride	ND		500	477	95	500	490	98	3	72-128/13
75-34-3	1,1-Dichloroethane	ND		500	631	126* c	500	575	115	9	70-121/10
75-35-4	1,1-Dichloroethylene	ND		500	534	107	500	497	99	7	62-125/13
563-58-6	1,1-Dichloropropene	ND		500	501	100	500	493	99	2	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	455	91	500	457	91	0	64-129/11
106-93-4	1,2-Dibromoethane	ND		500	525	105	500	520	104	1	81-124/10
107-06-2	1,2-Dichloroethane	ND		500	539	108	500	522	104	3	74-122/10
78-87-5	1,2-Dichloropropane	ND		500	624	125* c	500	569	114	9	75-123/10
142-28-9	1,3-Dichloropropane	ND		500	530	106	500	527	105	1	81-127/11
108-20-3	Di-Isopropyl ether	ND		500	599	120	500	544	109	10	69-126/10
594-20-7	2,2-Dichloropropane	ND		500	571	114	500	521	104	9	66-130/12
124-48-1	Dibromochloromethane	ND		500	433	87	500	436	87	1	76-124/10
75-71-8	Dichlorodifluoromethane	ND		500	547	109	500	476	95	14	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		500	624	125	500	570	114	9	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		500	538	108	500	527	105	2	76-131/10
541-73-1	m-Dichlorobenzene	ND		500	475	95	500	479	96	1	79-121/10
95-50-1	o-Dichlorobenzene	ND		500	481	96	500	478	96	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		500	483	97	500	487	97	1	79-120/10
156-60-5	trans-1,2-Dichloroethylene	ND		500	524	105	500	486	97	8	67-116/11
10061-02-6	trans-1,3-Dichloropropene	ND		500	499	100	500	503	101	1	73-125/10
100-41-4	Ethylbenzene	1340		500	2530	238* b	500	2070	146* b	20* c	78-123/10
637-92-3	Ethyl Tert Butyl Ether	ND		500	592	118	500	548	110	8	75-126/11

* = Outside of Control Limits.

5.4.2
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46447-2MS	R41005.D	25	07/11/16	CV	n/a	n/a	VR1579
C46447-2MSD	R41006.D	25	07/11/16	CV	n/a	n/a	VR1579
C46447-2 ^a	R41003.D	25	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

CAS No.	Compound	C46447-2 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND	2000	3080	154* ^c	2000	2650	133	15* ^c	71-145/12
87-68-3	Hexachlorobutadiene	ND	500	363	73	500	385	77	6	70-130/12
98-82-8	Isopropylbenzene	168	500	798	126* ^c	500	697	106	14* ^c	77-125/10
99-87-6	p-Isopropyltoluene	27.3	J 500	508	96	500	501	95	1	76-126/10
108-10-1	4-Methyl-2-pentanone	ND	2000	3030	152* ^c	2000	2610	131	15* ^c	70-142/11
74-83-9	Methyl bromide	ND	500	619	124	500	562	112	10	65-124/13
74-87-3	Methyl chloride	ND	500	556	111	500	518	104	7	47-143/20
74-95-3	Methylene bromide	ND	500	540	108	500	530	106	2	80-125/10
75-09-2	Methylene chloride	ND	500	597	119	500	555	111	7	65-124/15
78-93-3	Methyl ethyl ketone	95.0	J 2000	2670	129	2000	2540	122	5	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND	500	559	112	500	518	104	8	73-120/10
91-20-3	Naphthalene	160	500	753	119	500	706	109	6	66-120/12
103-65-1	n-Propylbenzene	216	500	906	138* ^c	500	759	109	18* ^c	75-125/10
100-42-5	Styrene	ND	500	650	130* ^c	500	622	124	4	73-126/10
994-05-8	Tert-Amyl Methyl Ether	ND	500	602	120	500	557	111	8	77-126/10
75-65-0	Tert-Butyl Alcohol	ND	2500	2800	112	2500	2910	116	4	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	501	100	500	504	101	1	79-126/10
71-55-6	1,1,1-Trichloroethane	ND	500	586	117	500	551	110	6	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	551	110	500	542	108	2	78-127/10
79-00-5	1,1,2-Trichloroethane	ND	500	589	118	500	558	112	5	79-122/10
87-61-6	1,2,3-Trichlorobenzene	ND	500	414	83	500	427	85	3	70-128/12
96-18-4	1,2,3-Trichloropropane	ND	500	521	104	500	527	105	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	ND	500	421	84	500	432	86	3	72-125/11
95-63-6	1,2,4-Trimethylbenzene	1140	500	2720	316* ^b	500	1990	170* ^b	31* ^c	76-124/10
108-67-8	1,3,5-Trimethylbenzene	369	500	1260	178* ^c	500	989	124	24* ^c	79-130/10
127-18-4	Tetrachloroethylene	ND	500	452	90	500	456	91	1	72-124/13
79-01-6	Trichloroethylene	ND	500	600	120* ^c	500	573	115	5	75-119/10
75-69-4	Trichlorofluoromethane	ND	500	663	133* ^c	500	616	123	7	68-130/19
75-01-4	Vinyl chloride	ND	500	689	138* ^c	500	622	124	10	57-137/18

CAS No.	Surrogate Recoveries	MS	MSD	C46447-2	Limits
1868-53-7	Dibromofluoromethane	121%	113%	110%	80-123%
2037-26-5	Toluene-D8	98%	100%	101%	88-112%
460-00-4	4-Bromofluorobenzene	98%	99%	97%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46447-2MS	R41005.D	25	07/11/16	CV	n/a	n/a	VR1579
C46447-2MSD	R41006.D	25	07/11/16	CV	n/a	n/a	VR1579
C46447-2 ^a	R41003.D	25	07/11/16	CV	n/a	n/a	VR1579

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-2

- (a) Sample vial contained more than 0.5cm of sediment.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46447
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46447-1MS	R41041.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1MSD	R41042.D	10	07/12/16	CV	n/a	n/a	VR1581
C46447-1 ^a	R41028.D	10	07/12/16	CV	n/a	n/a	VR1581

The QC reported here applies to the following samples:

Method: SW846 8260B

C46447-1, C46447-2

CAS No.	Compound	C46447-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	555	200	709	77	200	672	59* ^b	5	76-120/10
108-88-3	Toluene	83.9	200	272	94	200	272	94	0	78-121/10
1330-20-7	Xylene (total)	125	600	698	96	600	699	96	0	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46447-1	Limits
1868-53-7	Dibromofluoromethane	115%	108%	116%	80-123%
2037-26-5	Toluene-D8	102%	102%	102%	88-112%
460-00-4	4-Bromofluorobenzene	100%	99%	96%	79-114%

- (a) Sample vial contained more than 0.5cm of sediment.
- (b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

5.4.3
 5

Technical Report for

ATC Group Services

Premier Hyundai 2820 Broadway Oakland

118EM01075

SGS Accutest Job Number: C46588

Sampling Date: 07/19/16

Report to:

ATC Group Services
945 Highland Pointe Dr Suite 250
Roseville, CA
gabe.stivala@atcassociates.com

ATTN: Gabe Stivala

Total number of pages in report: **64**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services

Job No: C46588

Premier Hyundai 2820 Broadway Oakland
 Project No: 118EM01075

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C46588-1	07/19/16	12:20 GM	07/20/16	AQ	Ground Water	MW-1
C46588-1F	07/19/16	12:20 GM	07/20/16	AQ	Groundwater Filtered	MW-1
C46588-2	07/19/16	12:30 GM	07/20/16	AQ	Ground Water	MW-2
C46588-2F	07/19/16	12:30 GM	07/20/16	AQ	Groundwater Filtered	MW-2
C46588-3	07/19/16	12:10 GM	07/20/16	AQ	Ground Water	MW-3
C46588-3F	07/19/16	12:10 GM	07/20/16	AQ	Groundwater Filtered	MW-3
C46588-4	07/19/16	09:05 GM	07/20/16	AQ	Ground Water	MW-4
C46588-4F	07/19/16	09:05 GM	07/20/16	AQ	Groundwater Filtered	MW-4
C46588-5	07/19/16	09:15 GM	07/20/16	AQ	Ground Water	MW-5
C46588-5F	07/19/16	09:15 GM	07/20/16	AQ	Groundwater Filtered	MW-5
C46588-6	07/19/16	09:35 GM	07/20/16	AQ	Ground Water	MW-6
C46588-6F	07/19/16	09:35 GM	07/20/16	AQ	Groundwater Filtered	MW-6

Summary of Hits

Job Number: C46588
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/19/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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C46588-1 MW-1

Acetone	291	20			ug/l	SW846 8260B
Benzene	696	20			ug/l	SW846 8260B
n-Butylbenzene	2.4	2.0			ug/l	SW846 8260B
1,2-Dichloroethane	27.9	1.0			ug/l	SW846 8260B
Di-Isopropyl ether	6.6	2.0			ug/l	SW846 8260B
2,2-Dichloropropane	4.5	1.0			ug/l	SW846 8260B
cis-1,2-Dichloroethylene	1.2	1.0			ug/l	SW846 8260B
Ethylbenzene	65.4	20			ug/l	SW846 8260B
Isopropylbenzene	10.0	1.0			ug/l	SW846 8260B
p-Isopropyltoluene	2.3	2.0			ug/l	SW846 8260B
Methyl ethyl ketone	74.3	10			ug/l	SW846 8260B
Naphthalene	9.2	5.0			ug/l	SW846 8260B
n-Propylbenzene	7.7	2.0			ug/l	SW846 8260B
Styrene	3.4	1.0			ug/l	SW846 8260B
Tert-Butyl Alcohol	30.4	10			ug/l	SW846 8260B
1,2,4-Trimethylbenzene	44.0	2.0			ug/l	SW846 8260B
1,3,5-Trimethylbenzene	25.1	2.0			ug/l	SW846 8260B
Toluene	180	20			ug/l	SW846 8260B
Trichloroethylene	32.4	1.0			ug/l	SW846 8260B
Xylene (total)	276	40			ug/l	SW846 8260B
TPH-GRO (C6-C10)	6340	1000			ug/l	SW846 8260B

C46588-1F MW-1

No hits reported in this sample.

C46588-2 MW-2

Acetone	231	20			ug/l	SW846 8260B
Benzene	823	20			ug/l	SW846 8260B
Chloroethane	1.1	1.0			ug/l	SW846 8260B
1,2-Dichloroethane	23.7	1.0			ug/l	SW846 8260B
1,2-Dichloropropane	4.4	1.0			ug/l	SW846 8260B
Di-Isopropyl ether	6.2	2.0			ug/l	SW846 8260B
cis-1,2-Dichloroethylene	3.6	1.0			ug/l	SW846 8260B
Ethylbenzene	52.3	20			ug/l	SW846 8260B
Isopropylbenzene	10.4	1.0			ug/l	SW846 8260B
Methyl ethyl ketone	38.1	10			ug/l	SW846 8260B
Naphthalene	9.9	5.0			ug/l	SW846 8260B
n-Propylbenzene	8.0	2.0			ug/l	SW846 8260B
Styrene	2.5	1.0			ug/l	SW846 8260B
Tert-Butyl Alcohol	35.6	10			ug/l	SW846 8260B
1,2,4-Trimethylbenzene	39.0	2.0			ug/l	SW846 8260B

Summary of Hits

Job Number: C46588
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/19/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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1,3,5-Trimethylbenzene		12.9	2.0		ug/l	SW846 8260B
Toluene		113	20		ug/l	SW846 8260B
Trichloroethylene		55.5	20		ug/l	SW846 8260B
Xylene (total)		169	40		ug/l	SW846 8260B
TPH-GRO (C6-C10)		3980	1000		ug/l	SW846 8260B

C46588-2F MW-2

No hits reported in this sample.

C46588-3 MW-3

Chloroform		2.9	1.0		ug/l	SW846 8260B
cis-1,2-Dichloroethylene		9.0	1.0		ug/l	SW846 8260B
Tetrachloroethylene		1.6	1.0		ug/l	SW846 8260B
Trichloroethylene		116	10		ug/l	SW846 8260B
TPH-GRO (C6-C10)		379	50		ug/l	SW846 8260B

C46588-3F MW-3

No hits reported in this sample.

C46588-4 MW-4

Tetrachloroethylene		1.5	1.0		ug/l	SW846 8260B
Trichloroethylene		5.7	1.0		ug/l	SW846 8260B

C46588-4F MW-4

Nickel		5.7	5.0		ug/l	EPA 200.7
Zinc		38.7	20		ug/l	EPA 200.7

C46588-5 MW-5

Chloroform		6.4	1.0		ug/l	SW846 8260B
Carbon tetrachloride		57.4	1.0		ug/l	SW846 8260B
TPH-GRO (C6-C10)		73.4	50		ug/l	SW846 8260B

C46588-5F MW-5

No hits reported in this sample.

C46588-6 MW-6

Chloroform		6.4	1.0		ug/l	SW846 8260B
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Summary of Hits

Job Number: C46588
Account: ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland
Collected: 07/19/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Carbon tetrachloride		23.8	1.0		ug/l	SW846 8260B
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C46588-6F **MW-6**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1		Date Sampled: 07/19/16
Lab Sample ID: C46588-1		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U36033.D	1	07/22/16	MV	n/a	n/a	VU1487
Run #2	U36072.D	20	07/25/16	MV	n/a	n/a	VU1489

Run #	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	291	20	ug/l	
71-43-2	Benzene	696 ^a	20	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	2.4	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	27.9	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	6.6	2.0	ug/l	
594-20-7	2,2-Dichloropropane	4.5	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.2	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1		Date Sampled: 07/19/16
Lab Sample ID: C46588-1		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	65.4 ^a	20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	10.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	2.3	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	74.3	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	9.2	5.0	ug/l	
103-65-1	n-Propylbenzene	7.7	2.0	ug/l	
100-42-5	Styrene	3.4	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	30.4	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	44.0	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	25.1	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	180 ^a	20	ug/l	
79-01-6	Trichloroethylene	32.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	276 ^a	40	ug/l	
	TPH-GRO (C6-C10)	6340 ^a	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	97%	80-123%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1		Date Sampled: 07/19/16
Lab Sample ID: C46588-1		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%	99%	88-112%
460-00-4	4-Bromofluorobenzene	116%	90%	79-114%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1	Date Sampled: 07/19/16
Lab Sample ID: C46588-1F	Date Received: 07/20/16
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: MA6026

(2) Prep QC Batch: MP11650

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-2		Date Sampled: 07/19/16
Lab Sample ID: C46588-2		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U36034.D	1	07/22/16	MV	n/a	n/a	VU1487
Run #2	U36071.D	20	07/25/16	MV	n/a	n/a	VU1489

Run #	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	231	20	ug/l	
71-43-2	Benzene	823 ^a	20	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	1.1	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	23.7	1.0	ug/l	
78-87-5	1,2-Dichloropropane	4.4	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	6.2	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.6	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2		Date Sampled: 07/19/16
Lab Sample ID: C46588-2		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	52.3 ^a	20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	10.4	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	38.1	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	9.9	5.0	ug/l	
103-65-1	n-Propylbenzene	8.0	2.0	ug/l	
100-42-5	Styrene	2.5	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	35.6	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	39.0	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	12.9	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	113 ^a	20	ug/l	
79-01-6	Trichloroethylene	55.5 ^a	20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	169 ^a	40	ug/l	
	TPH-GRO (C6-C10)	3980 ^a	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	97%	80-123%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2		Date Sampled: 07/19/16
Lab Sample ID: C46588-2		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%	98%	88-112%
460-00-4	4-Bromofluorobenzene	119%	91%	79-114%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2	Date Sampled: 07/19/16
Lab Sample ID: C46588-2F	Date Received: 07/20/16
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: MA6026

(2) Prep QC Batch: MP11650

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-3		Date Sampled: 07/19/16
Lab Sample ID: C46588-3		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U36035.D	1	07/22/16	MV	n/a	n/a	VU1487
Run #2	U36067.D	10	07/25/16	MV	n/a	n/a	VU1489

Run #	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	2.9	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	9.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3		Date Sampled: 07/19/16
Lab Sample ID: C46588-3		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	1.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	116 ^a	10	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	379	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	98%	80-123%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3		Date Sampled: 07/19/16
Lab Sample ID: C46588-3		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%	97%	88-112%
460-00-4	4-Bromofluorobenzene	92%	90%	79-114%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3	Date Sampled: 07/19/16
Lab Sample ID: C46588-3F	Date Received: 07/20/16
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: MA6026

(2) Prep QC Batch: MP11650

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-4		Date Sampled: 07/19/16
Lab Sample ID: C46588-4		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U36066.D	1	07/25/16	MV	n/a	n/a	VU1489
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4	Date Sampled:	07/19/16
Lab Sample ID:	C46588-4	Date Received:	07/20/16
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	1.5	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	5.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		80-123%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-4		Date Sampled: 07/19/16
Lab Sample ID: C46588-4		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	90%		79-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: MW-4	Date Sampled: 07/19/16
Lab Sample ID: C46588-4F	Date Received: 07/20/16
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Arsenic	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Barium	< 200	200	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Beryllium	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Cadmium	< 2.0	2.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Chromium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Cobalt	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Copper	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Lead	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Mercury	< 0.20	0.20	ug/l	1	07/22/16	07/22/16 EB	EPA 245.1 ²	SW846 7470A ⁴
Molybdenum	< 20	20	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Nickel	5.7	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Selenium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Silver	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Thallium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Vanadium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Zinc	38.7	20	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³

- (1) Instrument QC Batch: MA6026
- (2) Instrument QC Batch: MA6028
- (3) Prep QC Batch: MP11650
- (4) Prep QC Batch: MP11665

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-5		Date Sampled: 07/19/16
Lab Sample ID: C46588-5		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U36037.D	1	07/22/16	MV	n/a	n/a	VU1487
Run #2							

Run #	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	6.4	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	57.4	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5	Date Sampled:	07/19/16
Lab Sample ID:	C46588-5	Date Received:	07/20/16
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	73.4	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-123%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-5		Date Sampled: 07/19/16
Lab Sample ID: C46588-5		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	92%		79-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-5	Date Sampled: 07/19/16
Lab Sample ID: C46588-5F	Date Received: 07/20/16
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Arsenic	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Barium	< 200	200	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Beryllium	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Cadmium	< 2.0	2.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Chromium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Cobalt	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Copper	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Lead	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Mercury	< 0.20	0.20	ug/l	1	07/22/16	07/22/16 EB	EPA 245.1 ²	SW846 7470A ⁴
Molybdenum	< 20	20	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Nickel	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Selenium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Silver	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Thallium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Vanadium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Zinc	< 20	20	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³

- (1) Instrument QC Batch: MA6026
- (2) Instrument QC Batch: MA6028
- (3) Prep QC Batch: MP11650
- (4) Prep QC Batch: MP11665

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-6		Date Sampled: 07/19/16
Lab Sample ID: C46588-6		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U36038.D	1	07/22/16	MV	n/a	n/a	VU1487
Run #2							

Run #	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	6.4	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	23.8	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-6		Date Sampled: 07/19/16
Lab Sample ID: C46588-6		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-123%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-6		Date Sampled: 07/19/16
Lab Sample ID: C46588-6		Date Received: 07/20/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Premier Hyundai 2820 Broadway Oakland		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	90%		79-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-6	Date Sampled: 07/19/16
Lab Sample ID: C46588-6F	Date Received: 07/20/16
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: Premier Hyundai 2820 Broadway Oakland	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Arsenic	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Barium	< 200	200	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Beryllium	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Cadmium	< 2.0	2.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Chromium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Cobalt	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Copper	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Lead	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Mercury	< 0.20	0.20	ug/l	1	07/22/16	07/22/16 EB	EPA 245.1 ²	SW846 7470A ⁴
Molybdenum	< 20	20	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Nickel	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Selenium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Silver	< 5.0	5.0	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Thallium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Vanadium	< 10	10	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³
Zinc	< 20	20	ug/l	1	07/22/16	07/22/16 RS	EPA 200.7 ¹	EPA 200.7 ³

- (1) Instrument QC Batch: MA6026
- (2) Instrument QC Batch: MA6028
- (3) Prep QC Batch: MP11650
- (4) Prep QC Batch: MP11665

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Accutest Sample Receipt Summary

Job Number: C46588

Client: ATC GROUP SERVICES LLC

Project: PREMIER HYUNDAI OF OAKLAND

Date / Time Received: 7/20/2016 11:06:00 AM

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (5.9/6.9)

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Therm ID: | IR3; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

C46588: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1487-MB	U36028.D	1	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	

Method Blank Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1487-MB	U36028.D	1	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.21	2.0	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

5.1.1
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Method Blank Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1487-MB	U36028.D	1	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	95% 80-123%
2037-26-5	Toluene-D8	101% 88-112%
460-00-4	4-Bromofluorobenzene	92% 79-114%

Method Blank Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1489-MB	U36064.D	1	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	ug/l	

Method Blank Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1489-MB	U36064.D	1	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Compound	Result	RL	Units	Q
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

Method Blank Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1489-MB	U36064.D	1	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	93% 80-123%
2037-26-5	Toluene-D8	99% 88-112%
460-00-4	4-Bromofluorobenzene	89% 79-114%

5.1.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1487-BS	U36025.D	1	07/22/16	MV	n/a	n/a	VU1487
VU1487-BSD	U36026.D	1	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	69.4	87	69.9	87	1	55-147/17
71-43-2	Benzene	20	18.3	92	18.5	93	1	76-120/10
108-86-1	Bromobenzene	20	18.7	94	19.2	96	3	80-123/10
74-97-5	Bromochloromethane	20	19.8	99	19.9	100	1	79-124/10
75-27-4	Bromodichloromethane	20	17.8	89	17.9	90	1	75-121/10
75-25-2	Bromoform	20	19.3	97	19.1	96	1	62-127/10
104-51-8	n-Butylbenzene	20	17.9	90	17.9	90	0	74-129/10
135-98-8	sec-Butylbenzene	20	18.0	90	18.0	90	0	75-128/11
98-06-6	tert-Butylbenzene	20	17.9	90	18.1	91	1	74-127/11
108-90-7	Chlorobenzene	20	18.3	92	18.5	93	1	79-119/10
75-00-3	Chloroethane	20	18.7	94	19.0	95	2	60-115/14
67-66-3	Chloroform	20	18.2	91	18.4	92	1	75-122/10
95-49-8	o-Chlorotoluene	20	17.9	90	17.9	90	0	76-125/12
106-43-4	p-Chlorotoluene	20	17.5	88	17.8	89	2	76-126/11
56-23-5	Carbon tetrachloride	20	19.1	96	18.9	95	1	72-128/13
75-34-3	1,1-Dichloroethane	20	17.8	89	18.3	92	3	70-121/10
75-35-4	1,1-Dichloroethylene	20	17.9	90	18.0	90	1	62-125/13
563-58-6	1,1-Dichloropropene	20	17.9	90	17.7	89	1	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	20	17.0	85	16.8	84	1	64-129/11
106-93-4	1,2-Dibromoethane	20	18.8	94	18.8	94	0	81-124/10
107-06-2	1,2-Dichloroethane	20	18.6	93	18.7	94	1	74-122/10
78-87-5	1,2-Dichloropropane	20	17.9	90	18.3	92	2	75-123/10
142-28-9	1,3-Dichloropropane	20	19.1	96	19.3	97	1	81-127/11
108-20-3	Di-Isopropyl ether	20	17.1	86	17.5	88	2	69-126/10
594-20-7	2,2-Dichloropropane	20	17.1	86	17.2	86	1	66-130/12
124-48-1	Dibromochloromethane	20	18.7	94	18.7	94	0	76-124/10
75-71-8	Dichlorodifluoromethane	20	16.3	82	15.5	78	5	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	19.2	96	19.5	98	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	18.6	93	18.7	94	1	76-131/10
541-73-1	m-Dichlorobenzene	20	18.5	93	18.5	93	0	79-121/10
95-50-1	o-Dichlorobenzene	20	18.5	93	18.5	93	0	79-120/10
106-46-7	p-Dichlorobenzene	20	18.5	93	18.6	93	1	79-120/10
156-60-5	trans-1,2-Dichloroethylene	20	17.0	85	17.2	86	1	67-116/11
10061-02-6	trans-1,3-Dichloropropene	20	17.7	89	17.7	89	0	73-125/10
100-41-4	Ethylbenzene	20	18.2	91	18.4	92	1	78-123/10
637-92-3	Ethyl Tert Butyl Ether	20	17.6	88	17.9	90	2	75-126/11

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1487-BS	U36025.D	1	07/22/16	MV	n/a	n/a	VU1487
VU1487-BSD	U36026.D	1	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	78.1	98	76.5	96	2	71-145/12
87-68-3	Hexachlorobutadiene	20	18.2	91	18.3	92	1	70-130/12
98-82-8	Isopropylbenzene	20	18.4	92	18.5	93	1	77-125/10
99-87-6	p-Isopropyltoluene	20	18.1	91	18.3	92	1	76-126/10
108-10-1	4-Methyl-2-pentanone	80	77.5	97	75.7	95	2	70-142/11
74-83-9	Methyl bromide	20	18.3	92	18.5	93	1	65-124/13
74-87-3	Methyl chloride	20	17.2	86	17.2	86	0	47-143/20
74-95-3	Methylene bromide	20	19.9	100	19.7	99	1	80-125/10
75-09-2	Methylene chloride	20	17.6	88	17.9	90	2	65-124/15
78-93-3	Methyl ethyl ketone	80	76.8	96	75.7	95	1	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	17.1	86	17.3	87	1	73-120/10
91-20-3	Naphthalene	20	18.4	92	19.1	96	4	66-120/12
103-65-1	n-Propylbenzene	20	17.3	87	17.5	88	1	75-125/10
100-42-5	Styrene	20	18.4	92	18.4	92	0	73-126/10
994-05-8	Tert-Amyl Methyl Ether	20	17.6	88	18.0	90	2	77-126/10
75-65-0	Tert-Butyl Alcohol	100	91.1	91	88.6	89	3	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	20	18.9	95	18.9	95	0	79-126/10
71-55-6	1,1,1-Trichloroethane	20	18.6	93	18.7	94	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	18.9	95	18.9	95	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	18.8	94	18.8	94	0	79-122/10
87-61-6	1,2,3-Trichlorobenzene	20	18.4	92	19.0	95	3	70-128/12
96-18-4	1,2,3-Trichloropropane	20	19.6	98	19.1	96	3	66-127/10
120-82-1	1,2,4-Trichlorobenzene	20	18.2	91	18.6	93	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	17.8	89	18.0	90	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	17.8	89	18.0	90	1	79-130/10
127-18-4	Tetrachloroethylene	20	18.7	94	18.4	92	2	72-124/13
108-88-3	Toluene	20	18.0	90	18.2	91	1	78-121/10
79-01-6	Trichloroethylene	20	18.1	91	18.2	91	1	75-119/10
75-69-4	Trichlorofluoromethane	20	19.6	98	19.1	96	3	68-130/19
75-01-4	Vinyl chloride	20	19.2	96	19.0	95	1	57-137/18
1330-20-7	Xylene (total)	60	54.7	91	54.8	91	0	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	100%	80-123%

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1487-BS	U36025.D	1	07/22/16	MV	n/a	n/a	VU1487
VU1487-BSD	U36026.D	1	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	100%	99%	88-112%
460-00-4	4-Bromofluorobenzene	98%	96%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1489-BS	U36060.D	1	07/25/16	MV	n/a	n/a	VU1489
VU1489-BSD	U36061.D	1	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	75.7	95	70.5	88	7	55-147/17
71-43-2	Benzene	20	18.2	91	17.9	90	2	76-120/10
108-86-1	Bromobenzene	20	18.7	94	18.3	92	2	80-123/10
74-97-5	Bromochloromethane	20	20.1	101	19.4	97	4	79-124/10
75-27-4	Bromodichloromethane	20	18.1	91	17.5	88	3	75-121/10
75-25-2	Bromoform	20	20.0	100	19.1	96	5	62-127/10
104-51-8	n-Butylbenzene	20	17.6	88	17.3	87	2	74-129/10
135-98-8	sec-Butylbenzene	20	17.6	88	17.5	88	1	75-128/11
98-06-6	tert-Butylbenzene	20	17.5	88	17.4	87	1	74-127/11
108-90-7	Chlorobenzene	20	18.0	90	17.8	89	1	79-119/10
75-00-3	Chloroethane	20	17.6	88	19.0	95	8	60-115/14
67-66-3	Chloroform	20	18.2	91	17.8	89	2	75-122/10
95-49-8	o-Chlorotoluene	20	17.4	87	17.2	86	1	76-125/12
106-43-4	p-Chlorotoluene	20	17.4	87	17.3	87	1	76-126/11
56-23-5	Carbon tetrachloride	20	18.6	93	18.6	93	0	72-128/13
75-34-3	1,1-Dichloroethane	20	17.8	89	17.7	89	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	17.4	87	17.5	88	1	62-125/13
563-58-6	1,1-Dichloropropene	20	17.2	86	17.3	87	1	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	20	17.2	86	16.4	82	5	64-129/11
106-93-4	1,2-Dibromoethane	20	19.0	95	18.4	92	3	81-124/10
107-06-2	1,2-Dichloroethane	20	18.9	95	18.3	92	3	74-122/10
78-87-5	1,2-Dichloropropane	20	18.2	91	17.9	90	2	75-123/10
142-28-9	1,3-Dichloropropane	20	19.3	97	18.8	94	3	81-127/11
108-20-3	Di-Isopropyl ether	20	17.3	87	16.9	85	2	69-126/10
594-20-7	2,2-Dichloropropane	20	16.7	84	16.6	83	1	66-130/12
124-48-1	Dibromochloromethane	20	18.9	95	18.5	93	2	76-124/10
75-71-8	Dichlorodifluoromethane	20	14.7	74	16.2	81	10	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	19.1	96	19.0	95	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	19.0	95	18.4	92	3	76-131/10
541-73-1	m-Dichlorobenzene	20	18.2	91	17.9	90	2	79-121/10
95-50-1	o-Dichlorobenzene	20	18.5	93	18.0	90	3	79-120/10
106-46-7	p-Dichlorobenzene	20	18.4	92	17.9	90	3	79-120/10
156-60-5	trans-1,2-Dichloroethylene	20	16.5	83	16.5	83	0	67-116/11
10061-02-6	trans-1,3-Dichloropropene	20	17.9	90	17.6	88	2	73-125/10
100-41-4	Ethylbenzene	20	17.7	89	17.7	89	0	78-123/10
637-92-3	Ethyl Tert Butyl Ether	20	17.8	89	17.4	87	2	75-126/11

* = Outside of Control Limits.

5.2.2
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Blank Spike/Blank Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1489-BS	U36060.D	1	07/25/16	MV	n/a	n/a	VU1489
VU1489-BSD	U36061.D	1	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	77.9	97	75.4	94	3	71-145/12
87-68-3	Hexachlorobutadiene	20	18.0	90	17.8	89	1	70-130/12
98-82-8	Isopropylbenzene	20	17.9	90	17.9	90	0	77-125/10
99-87-6	p-Isopropyltoluene	20	17.7	89	17.6	88	1	76-126/10
108-10-1	4-Methyl-2-pentanone	80	77.7	97	74.3	93	4	70-142/11
74-83-9	Methyl bromide	20	17.5	88	18.9	95	8	65-124/13
74-87-3	Methyl chloride	20	16.7	84	17.8	89	6	47-143/20
74-95-3	Methylene bromide	20	20.1	101	19.5	98	3	80-125/10
75-09-2	Methylene chloride	20	17.8	89	17.4	87	2	65-124/15
78-93-3	Methyl ethyl ketone	80	78.5	98	74.0	93	6	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	17.4	87	16.8	84	4	73-120/10
91-20-3	Naphthalene	20	18.5	93	18.7	94	1	66-120/12
103-65-1	n-Propylbenzene	20	17.0	85	16.9	85	1	75-125/10
100-42-5	Styrene	20	18.0	90	17.8	89	1	73-126/10
994-05-8	Tert-Amyl Methyl Ether	20	18.1	91	17.7	89	2	77-126/10
75-65-0	Tert-Butyl Alcohol	100	90.9	91	86.9	87	4	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	20	18.7	94	18.5	93	1	79-126/10
71-55-6	1,1,1-Trichloroethane	20	18.1	91	18.1	91	0	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	19.1	96	18.4	92	4	78-127/10
79-00-5	1,1,2-Trichloroethane	20	18.7	94	18.5	93	1	79-122/10
87-61-6	1,2,3-Trichlorobenzene	20	18.5	93	18.6	93	1	70-128/12
96-18-4	1,2,3-Trichloropropane	20	19.3	97	19.1	96	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	20	18.2	91	18.0	90	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	17.6	88	17.4	87	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	17.5	88	17.3	87	1	79-130/10
127-18-4	Tetrachloroethylene	20	18.6	93	18.4	92	1	72-124/13
108-88-3	Toluene	20	17.6	88	17.5	88	1	78-121/10
79-01-6	Trichloroethylene	20	17.9	90	17.7	89	1	75-119/10
75-69-4	Trichlorofluoromethane	20	18.5	93	20.1	101	8	68-130/19
75-01-4	Vinyl chloride	20	17.9	90	19.7	99	10	57-137/18
1330-20-7	Xylene (total)	60	53.6	89	53.2	89	1	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	101%	80-123%

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1489-BS	U36060.D	1	07/25/16	MV	n/a	n/a	VU1489
VU1489-BSD	U36061.D	1	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	96%	98%	88-112%
460-00-4	4-Bromofluorobenzene	96%	98%	79-114%

* = Outside of Control Limits.

5.2.2
 5

Laboratory Control Sample Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1489-LCS	U36063.D	1	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	105	84	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	93%	79-114%

* = Outside of Control Limits.

5.3.1
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46539-24MS	U36048.D	100	07/22/16	MV	n/a	n/a	VU1487
C46539-24MSD	U36049.D	100	07/22/16	MV	n/a	n/a	VU1487
C46539-24 ^a	U36032.D	100	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Compound	C46539-24 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		8000	9280	116	8000	7510	94	21* b	55-147/17
71-43-2	Benzene	1860		2000	3750	95	2000	3600	87	4	76-120/10
108-86-1	Bromobenzene	ND		2000	1950	98	2000	1960	98	1	80-123/10
74-97-5	Bromochloromethane	ND		2000	2060	103	2000	2030	102	1	79-124/10
75-27-4	Bromodichloromethane	ND		2000	1810	91	2000	1760	88	3	75-121/10
75-25-2	Bromoform	ND		2000	1750	88	2000	1550	78	12* b	62-127/10
104-51-8	n-Butylbenzene	25.2	J	2000	1860	92	2000	1900	94	2	74-129/10
135-98-8	sec-Butylbenzene	ND		2000	1880	94	2000	1910	96	2	75-128/11
98-06-6	tert-Butylbenzene	ND		2000	1910	96	2000	1930	97	1	74-127/11
108-90-7	Chlorobenzene	ND		2000	1900	95	2000	1870	94	2	79-119/10
75-00-3	Chloroethane	ND		2000	1970	99	2000	2010	101	2	60-115/14
67-66-3	Chloroform	ND		2000	1880	94	2000	1880	94	0	75-122/10
95-49-8	o-Chlorotoluene	ND		2000	1860	93	2000	1870	94	1	76-125/12
106-43-4	p-Chlorotoluene	ND		2000	1810	91	2000	1840	92	2	76-126/11
56-23-5	Carbon tetrachloride	ND		2000	1990	100	2000	1960	98	2	72-128/13
75-34-3	1,1-Dichloroethane	ND		2000	1860	93	2000	1850	93	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		2000	1860	93	2000	1870	94	1	62-125/13
563-58-6	1,1-Dichloropropene	ND		2000	1820	91	2000	1820	91	0	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		2000	1700	85	2000	1790	90	5	64-129/11
106-93-4	1,2-Dibromoethane	ND		2000	1940	97	2000	1910	96	2	81-124/10
107-06-2	1,2-Dichloroethane	ND		2000	1910	96	2000	1880	94	2	74-122/10
78-87-5	1,2-Dichloropropane	ND		2000	1890	95	2000	1830	92	3	75-123/10
142-28-9	1,3-Dichloropropane	ND		2000	1980	99	2000	1950	98	2	81-127/11
108-20-3	Di-Isopropyl ether	ND		2000	1750	88	2000	1750	88	0	69-126/10
594-20-7	2,2-Dichloropropane	ND		2000	1500	75	2000	1490	75	1	66-130/12
124-48-1	Dibromochloromethane	ND		2000	1830	92	2000	1700	85	7	76-124/10
75-71-8	Dichlorodifluoromethane	ND		2000	1770	89	2000	1730	87	2	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		2000	1990	100	2000	1970	99	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		2000	1820	91	2000	1810	91	1	76-131/10
541-73-1	m-Dichlorobenzene	ND		2000	1910	96	2000	1910	96	0	79-121/10
95-50-1	o-Dichlorobenzene	ND		2000	1930	97	2000	1940	97	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		2000	1910	96	2000	1920	96	1	79-120/10
156-60-5	trans-1,2-Dichloroethylene	ND		2000	1770	89	2000	1760	88	1	67-116/11
10061-02-6	trans-1,3-Dichloropropene	ND		2000	1750	88	2000	1720	86	2	73-125/10
100-41-4	Ethylbenzene	1520		2000	3380	93	2000	3290	89	3	78-123/10
637-92-3	Ethyl Tert Butyl Ether	ND		2000	1810	91	2000	1790	90	1	75-126/11

* = Outside of Control Limits.

5.4.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46539-24MS	U36048.D	100	07/22/16	MV	n/a	n/a	VU1487
C46539-24MSD	U36049.D	100	07/22/16	MV	n/a	n/a	VU1487
C46539-24 ^a	U36032.D	100	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Compound	C46539-24 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	ND		8000	7910	99	8000	8020	100	1	71-145/12
87-68-3	Hexachlorobutadiene	ND		2000	1820	91	2000	1870	94	3	70-130/12
98-82-8	Isopropylbenzene	78.6	J	2000	2000	96	2000	1980	95	1	77-125/10
99-87-6	p-Isopropyltoluene	ND		2000	1890	95	2000	1890	95	0	76-126/10
108-10-1	4-Methyl-2-pentanone	ND		8000	7820	98	8000	7890	99	1	70-142/11
74-83-9	Methyl bromide	ND		2000	1950	98	2000	1960	98	1	65-124/13
74-87-3	Methyl chloride	ND		2000	1890	95	2000	1900	95	1	47-143/20
74-95-3	Methylene bromide	ND		2000	2070	104	2000	2050	103	1	80-125/10
75-09-2	Methylene chloride	ND		2000	1850	93	2000	1820	91	2	65-124/15
78-93-3	Methyl ethyl ketone	ND		8000	7850	98	8000	7900	99	1	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND		2000	1730	87	2000	1730	87	0	73-120/10
91-20-3	Naphthalene	217	J	2000	2070	93	2000	2220	100	7	66-120/12
103-65-1	n-Propylbenzene	196	J	2000	1970	89	2000	2000	90	2	75-125/10
100-42-5	Styrene	ND		2000	1930	97	2000	1910	96	1	73-126/10
994-05-8	Tert-Amyl Methyl Ether	ND		2000	1820	91	2000	1810	91	1	77-126/10
75-65-0	Tert-Butyl Alcohol	ND		10000	9190	92	10000	9420	94	2	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	ND		2000	1970	99	2000	1920	96	3	79-126/10
71-55-6	1,1,1-Trichloroethane	ND		2000	1940	97	2000	1930	97	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	1950	98	2000	1980	99	2	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		2000	1950	98	2000	1930	97	1	79-122/10
87-61-6	1,2,3-Trichlorobenzene	ND		2000	1850	93	2000	1950	98	5	70-128/12
96-18-4	1,2,3-Trichloropropane	ND		2000	2030	102	2000	2000	100	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	ND		2000	1860	93	2000	1890	95	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	279		2000	2150	94	2000	2150	94	0	76-124/10
108-67-8	1,3,5-Trimethylbenzene	43.0	J	2000	1920	94	2000	1940	95	1	79-130/10
127-18-4	Tetrachloroethylene	ND		2000	1910	96	2000	1890	95	1	72-124/13
108-88-3	Toluene	1730		2000	3570	92	2000	3460	87	3	78-121/10
79-01-6	Trichloroethylene	ND		2000	1900	95	2000	1860	93	2	75-119/10
75-69-4	Trichlorofluoromethane	ND		2000	2100	105	2000	2120	106	1	68-130/19
75-01-4	Vinyl chloride	ND		2000	2150	108	2000	2130	107	1	57-137/18
1330-20-7	Xylene (total)	3050		6000	8830	96	6000	8590	92	3	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46539-24	Limits
1868-53-7	Dibromofluoromethane	101%	102%	96%	80-123%

* = Outside of Control Limits.

5.4.1
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46539-24MS	U36048.D	100	07/22/16	MV	n/a	n/a	VU1487
C46539-24MSD	U36049.D	100	07/22/16	MV	n/a	n/a	VU1487
C46539-24 ^a	U36032.D	100	07/22/16	MV	n/a	n/a	VU1487

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-5, C46588-6

CAS No.	Surrogate Recoveries	MS	MSD	C46539-24	Limits
2037-26-5	Toluene-D8	99%	99%	101%	88-112%
460-00-4	4-Bromofluorobenzene	97%	95%	93%	79-114%

- (a) Sample vial contained floating product. Results may not be reproducible.
- (b) Outside laboratory control limits.

* = Outside of Control Limits.

5.4.1
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46556-1MS	U36083.D	1000	07/25/16	MV	n/a	n/a	VU1489
C46556-1MSD	U36084.D	1000	07/25/16	MV	n/a	n/a	VU1489
C46556-1	U36069.D	1000	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Compound	C46556-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		80000	65700	82	80000	69800	87	6	55-147/17
71-43-2	Benzene	ND		20000	17100	86	20000	17800	89	4	76-120/10
108-86-1	Bromobenzene	ND		20000	17600	88	20000	17700	89	1	80-123/10
74-97-5	Bromochloromethane	ND		20000	18500	93	20000	18900	95	2	79-124/10
75-27-4	Bromodichloromethane	ND		20000	16100	81	20000	16700	84	4	75-121/10
75-25-2	Bromoform	ND		20000	15300	77	20000	17100	86	11* a	62-127/10
104-51-8	n-Butylbenzene	ND		20000	16500	83	20000	17100	86	4	74-129/10
135-98-8	sec-Butylbenzene	ND		20000	16700	84	20000	17100	86	2	75-128/11
98-06-6	tert-Butylbenzene	ND		20000	16600	83	20000	17000	85	2	74-127/11
108-90-7	Chlorobenzene	ND		20000	17000	85	20000	17600	88	3	79-119/10
75-00-3	Chloroethane	ND		20000	18100	91	20000	17900	90	1	60-115/14
67-66-3	Chloroform	235	J	20000	17300	85	20000	17800	88	3	75-122/10
95-49-8	o-Chlorotoluene	ND		20000	16400	82	20000	16900	85	3	76-125/12
106-43-4	p-Chlorotoluene	ND		20000	16300	82	20000	16600	83	2	76-126/11
56-23-5	Carbon tetrachloride	ND		20000	17300	87	20000	18000	90	4	72-128/13
75-34-3	1,1-Dichloroethane	588	J	20000	17500	85	20000	18100	88	3	70-121/10
75-35-4	1,1-Dichloroethylene	1390		20000	18200	84	20000	19000	88	4	62-125/13
563-58-6	1,1-Dichloropropene	ND		20000	16100	81	20000	17200	86	7	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		20000	15300	77	20000	15800	79	3	64-129/11
106-93-4	1,2-Dibromoethane	ND		20000	17000	85	20000	17900	90	5	81-124/10
107-06-2	1,2-Dichloroethane	12500		20000	30000	88	20000	30400	90	1	74-122/10
78-87-5	1,2-Dichloropropane	ND		20000	17100	86	20000	17600	88	3	75-123/10
142-28-9	1,3-Dichloropropane	ND		20000	17600	88	20000	18300	92	4	81-127/11
108-20-3	Di-Isopropyl ether	ND		20000	16000	80	20000	16600	83	4	69-126/10
594-20-7	2,2-Dichloropropane	ND		20000	14200	71	20000	14700	74	3	66-130/12
124-48-1	Dibromochloromethane	ND		20000	16200	81	20000	17300	87	7	76-124/10
75-71-8	Dichlorodifluoromethane	ND		20000	15000	75	20000	14500	73	3	26-163/26
156-59-2	cis-1,2-Dichloroethylene	57100		20000	78100	105	20000	78500	107	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20000	16800	84	20000	17400	87	4	76-131/10
541-73-1	m-Dichlorobenzene	ND		20000	17200	86	20000	17500	88	2	79-121/10
95-50-1	o-Dichlorobenzene	ND		20000	17300	87	20000	17500	88	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		20000	17200	86	20000	17700	89	3	79-120/10
156-60-5	trans-1,2-Dichloroethylene	246	J	20000	16200	80	20000	16600	82	2	67-116/11
10061-02-6	trans-1,3-Dichloropropene	ND		20000	15800	79	20000	16600	83	5	73-125/10
100-41-4	Ethylbenzene	213	J	20000	17100	84	20000	17700	87	3	78-123/10
637-92-3	Ethyl Tert Butyl Ether	ND		20000	16200	81	20000	16700	84	3	75-126/11

* = Outside of Control Limits.

5.4.2
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46556-1MS	U36083.D	1000	07/25/16	MV	n/a	n/a	VU1489
C46556-1MSD	U36084.D	1000	07/25/16	MV	n/a	n/a	VU1489
C46556-1	U36069.D	1000	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Compound	C46556-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	ND		80000	69300	87	80000	72600	91	5	71-145/12
87-68-3	Hexachlorobutadiene	ND		20000	16300	82	20000	17100	86	5	70-130/12
98-82-8	Isopropylbenzene	ND		20000	16800	84	20000	17500	88	4	77-125/10
99-87-6	p-Isopropyltoluene	ND		20000	16700	84	20000	17000	85	2	76-126/10
108-10-1	4-Methyl-2-pentanone	ND		80000	68800	86	80000	71200	89	3	70-142/11
74-83-9	Methyl bromide	ND		20000	17300	87	20000	17000	85	2	65-124/13
74-87-3	Methyl chloride	ND		20000	16000	80	20000	16600	83	4	47-143/20
74-95-3	Methylene bromide	ND		20000	18300	92	20000	19000	95	4	80-125/10
75-09-2	Methylene chloride	ND		20000	16900	85	20000	17300	87	2	65-124/15
78-93-3	Methyl ethyl ketone	ND		80000	70500	88	80000	72600	91	3	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND		20000	15400	77	20000	16100	81	4	73-120/10
91-20-3	Naphthalene	ND		20000	16900	85	20000	18200	91	7	66-120/12
103-65-1	n-Propylbenzene	ND		20000	16200	81	20000	16600	83	2	75-125/10
100-42-5	Styrene	ND		20000	16600	83	20000	17300	87	4	73-126/10
994-05-8	Tert-Amyl Methyl Ether	ND		20000	16300	82	20000	16900	85	4	77-126/10
75-65-0	Tert-Butyl Alcohol	ND		100000	79200	79	100000	87500	88	10	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	ND		20000	17300	87	20000	17900	90	3	79-126/10
71-55-6	1,1,1-Trichloroethane	ND		20000	17200	86	20000	17800	89	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20000	17800	89	20000	18000	90	1	78-127/10
79-00-5	1,1,2-Trichloroethane	856	J	20000	18200	87	20000	19100	91	5	79-122/10
87-61-6	1,2,3-Trichlorobenzene	ND		20000	16700	84	20000	17900	90	7	70-128/12
96-18-4	1,2,3-Trichloropropane	ND		20000	17600	88	20000	18400	92	4	66-127/10
120-82-1	1,2,4-Trichlorobenzene	ND		20000	16700	84	20000	17500	88	5	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20000	16500	83	20000	16900	85	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20000	16500	83	20000	16700	84	1	79-130/10
127-18-4	Tetrachloroethylene	ND		20000	16800	84	20000	17500	88	4	72-124/13
108-88-3	Toluene	ND		20000	16800	84	20000	17400	87	4	78-121/10
79-01-6	Trichloroethylene	3190		20000	20200	85	20000	20600	87	2	75-119/10
75-69-4	Trichlorofluoromethane	ND		20000	19100	96	20000	18300	92	4	68-130/19
75-01-4	Vinyl chloride	11900		20000	31900	100	20000	31600	99	1	57-137/18
1330-20-7	Xylene (total)	ND		60000	51000	85	60000	52700	88	3	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46556-1	Limits
1868-53-7	Dibromofluoromethane	99%	100%	97%	80-123%

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46588
Account: ATCCAR ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46556-1MS	U36083.D	1000	07/25/16	MV	n/a	n/a	VU1489
C46556-1MSD	U36084.D	1000	07/25/16	MV	n/a	n/a	VU1489
C46556-1	U36069.D	1000	07/25/16	MV	n/a	n/a	VU1489

The QC reported here applies to the following samples:

Method: SW846 8260B

C46588-1, C46588-2, C46588-3, C46588-4

CAS No.	Surrogate Recoveries	MS	MSD	C46556-1	Limits
2037-26-5	Toluene-D8	96%	97%	98%	88-112%
460-00-4	4-Bromofluorobenzene	92%	95%	89%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C46588
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11650
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/21/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	5.4	9		
Antimony	6.0	1.6	1.6	-1.7	<6.0
Arsenic	10	1.7	2.5	-1.3	<10
Barium	200	.25	3	0.0	<200
Beryllium	5.0	.19	.19	0.10	<5.0
Boron	100	2.7	2.7		
Cadmium	2.0	.32	.32	0.0	<2.0
Calcium	5000	19	76		
Chromium	10	1.2	1.2	0.30	<10
Cobalt	5.0	.49	.49	0.20	<5.0
Copper	10	1	1.4	1.6	<10
Iron	200	5.1	5.2		
Lead	10	1.1	1.6	0.40	<10
Magnesium	5000	37	42		
Manganese	15	.21	.6		
Molybdenum	20	1.1	1.1	0.30	<20
Nickel	5.0	.45	.45	0.0	<5.0
Potassium	10000	29	150		
Selenium	10	4.9	4.9	-0.20	<10
Silicon	100	2.2	2.2		
Silver	5.0	.89	.89	-0.30	<5.0
Sodium	10000	26	140		
Strontium	10	.14	.22		
Thallium	10	3.9	3.9	1.3	<10
Tin	50	3	3		
Titanium	10	.76	.76		
Vanadium	10	.43	.49	-0.20	<10
Zinc	20	1.1	1.4	0.10	<20

Associated samples MP11650: C46588-1F, C46588-2F, C46588-3F, C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46588
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11650
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/22/16

Metal	C46588-6F Original MS		SpikeLot MPIR5	% Rec	QC Limits
Aluminum					
Antimony	0.0	596	500	119.2	70-130
Arsenic	9.1	583	500	114.8	70-130
Barium	10.2	573	500	112.6	70-130
Beryllium	0.0	562	500	112.4	70-130
Boron					
Cadmium	0.0	576	500	115.2	70-130
Calcium					
Chromium	2.2	565	500	112.6	70-130
Cobalt	0.0	560	500	112.0	70-130
Copper	4.2	563	500	111.8	70-130
Iron					
Lead	0.0	549	500	109.8	70-130
Magnesium					
Manganese					
Molybdenum	4.3	541	500	107.3	70-130
Nickel	0.0	549	500	109.8	70-130
Potassium					
Selenium	0.0	588	500	117.6	70-130
Silicon					
Silver	0.0	543	500	108.6	70-130
Sodium					
Strontium					
Thallium	0.0	561	500	112.2	70-130
Tin					
Titanium					
Vanadium	5.8	564	500	111.6	70-130
Zinc	7.3	571	500	112.7	70-130

Associated samples MP11650: C46588-1F, C46588-2F, C46588-3F, C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46588
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11650
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/22/16

Metal	C46588-6F Original MSD		SpikeLot MPIR5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	590	500	118.0	1.0	20
Arsenic	9.1	573	500	112.8	1.7	20
Barium	10.2	576	500	113.2	0.5	20
Beryllium	0.0	567	500	113.4	0.9	20
Boron						
Cadmium	0.0	572	500	114.4	0.7	20
Calcium						
Chromium	2.2	568	500	113.2	0.5	20
Cobalt	0.0	556	500	111.2	0.7	20
Copper	4.2	566	500	112.4	0.5	20
Iron						
Lead	0.0	550	500	110.0	0.2	20
Magnesium						
Manganese						
Molybdenum	4.3	537	500	106.5	0.7	20
Nickel	0.0	547	500	109.4	0.4	20
Potassium						
Selenium	0.0	576	500	115.2	2.1	20
Silicon						
Silver	0.0	548	500	109.6	0.9	20
Sodium						
Strontium						
Thallium	0.0	560	500	112.0	0.2	20
Tin						
Titanium						
Vanadium	5.8	570	500	112.8	1.1	20
Zinc	7.3	571	500	112.7	0.0	20

Associated samples MP11650: C46588-1F, C46588-2F, C46588-3F, C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C46588
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11650
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/21/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	525	500	105.0	85-115
Arsenic	546	500	109.2	85-115
Barium	546	500	109.2	85-115
Beryllium	518	500	103.6	85-115
Boron				
Cadmium	559	500	111.8	85-115
Calcium	anr			
Chromium	559	500	111.8	85-115
Cobalt	553	500	110.6	85-115
Copper	564	500	112.8	85-115
Iron				
Lead	546	500	109.2	85-115
Magnesium	anr			
Manganese				
Molybdenum	528	500	105.6	85-115
Nickel	525	500	105.0	85-115
Potassium	anr			
Selenium	543	500	108.6	85-115
Silicon				
Silver	549	500	109.8	85-115
Sodium	anr			
Strontium				
Thallium	551	500	110.2	85-115
Tin				
Titanium				
Vanadium	552	500	110.4	85-115
Zinc	548	500	109.6	85-115

Associated samples MP11650: C46588-1F, C46588-2F, C46588-3F, C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C46588
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11650
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/21/16

Metal	C46574-1F Original SDL 1:5		%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	3.60	0.00	100.0 (a)	0-10
Barium	9.50	9.30	2.1	0-10
Beryllium	0.00	0.00	NC	0-10
Boron				
Cadmium	4.60	3.80	11.6 (a)	0-10
Calcium	anr			
Chromium	1.90	0.00	100.0 (a)	0-10
Cobalt	56.3	57.3	1.8	0-10
Copper	18.7	22.1	18.2 (a)	0-10
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese				
Molybdenum	0.00	0.00	NC	0-10
Nickel	29.1	27.3	6.2	0-10
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Thallium	3.90	0.00	NC	0-10
Tin				
Titanium				
Vanadium	0.00	0.00	NC	0-10
Zinc	137	136	0.4	0-10

Associated samples MP11650: C46588-1F, C46588-2F, C46588-3F, C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C46588
Account: ATCCAR - ATC Group Services
Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11665
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 07/22/16

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.0042	.02	-0.018	<0.20

Associated samples MP11665: C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.2.1
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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46588
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11665
 Matrix Type: AQUEOUS

Methods: EPA 245.1
 Units: ug/l

Prep Date: 07/22/16

Metal	C46567-5F Original MS	SpikeLot HGPWS1	% Rec	QC Limits
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Mercury	0.0	1.4	2	70.0	70-130
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Associated samples MP11665: C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.2.2

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C46588
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11665
 Matrix Type: AQUEOUS

Methods: EPA 245.1
 Units: ug/l

Prep Date: 07/22/16

Metal	C46567-5F Original MSD	SpikeLot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	1.4	2	70.0	0.0

Associated samples MP11665: C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.2.2

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SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C46588
 Account: ATCCAR - ATC Group Services
 Project: Premier Hyundai 2820 Broadway Oakland

QC Batch ID: MP11665
 Matrix Type: AQUEOUS

Methods: EPA 245.1
 Units: ug/l

Prep Date: 07/22/16

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
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Mercury	2.0	2	100.0	85-115
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Associated samples MP11665: C46588-4F, C46588-5F, C46588-6F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.2.3

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