



October 19, 2017

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BVNA Project No. 08017-000138.00
Transmitted via e-mail: david.szymanski@dec.ny.gov

Subject: 2017 Annual Groundwater Monitoring and Periodic Review Report
Lexington Machining, LLC.
201 Winchester Road, Village of Lakewood, Town of Busti
Chauataqua County, New York - NYSDEC Site Number: 907004

Dear Mr. Szymanski:

On behalf of Lexington Machining, LLC, Bureau Veritas North America, Inc. (BVNA) is pleased to present the attached 2017 Annual Groundwater Monitoring and Periodic Review Report for your review and approval. The monitoring was completed to satisfy the requirements of the Site Management Plan.

Please contact me at (732) 522-1970 or john.stangline@us.bureauveritas.com with any questions.

Sincerely,

John A. Stangline, ARM, CPEA, CHMM
HSE Director - Cleveland
Health Safety and Environmental Services
Northeast Ohio Regional Office

cc: Michael Lubin, Chairman, Lexington Machining LLC

Bureau Veritas North America, Inc.

Raritan Plaza I, 4th Floor, 110 Fieldcrest Avenue
Edison, NJ 08837

Annual Groundwater Monitoring, Periodic Review Report

Lexington Machining, LLC

NYSDEC Site Number: 907004
Premier Lakewood, Inc. Site
201 Winchester Road
Village of Lakewood, Town of Busti
Chauataqua County, New York

Bureau Veritas Project No. 08017-000138.00
OCTOBER -2017

Prepared by:

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For the benefit of business and people



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EXECUTIVE SUMMARY

A Site Management Plan (SMP) has been prepared for Lexington Machining LLC (LMLLC) for the LMLLC property located at 201 Winchester Road in the Village of Lakewood, Town of Busti, New York, Site #907044 (the Site) to address low levels of volatile organic compounds (VOCs) remaining in soil and groundwater of the Site. The SMP is required by the New York State Department of Environmental Conservation (NYSDEC) draft Order on Consent and Administrative Settlement Index # B9-0792-08-10.

VOCs were identified in Site soil and groundwater during due diligence environmental site investigations and underground storage tank (UST) closure activities between July 2002 and November 2006. The primary soil and groundwater contaminant, 1,1,1-trichloroethane (1,1,1-TCA), had been previously used at the Site as a solvent and degreaser from approximately 1960 through 1991. Breakdown products of 1,1,1-TCA have also been identified in Groundwater

An enhanced in-situ bioremediation program was conducted to address VOCs in groundwater at the Site in August through November 2006. The program included injection of bio-amendments into groundwater to support and increase the rate of naturally occurring degradation of contaminants by reductive dechlorination.

Post-remediation groundwater sampling conducted since remediation indicates a significant decrease in contaminant concentrations. Soil contaminants remaining at the site are located at depths of 4 to 11.5 feet beneath site structures and include chlorinated solvents and acetone at concentrations below criteria for protection of public health in residential, commercial or industrial settings, but above criteria for protection of groundwater.

Groundwater contaminants remaining at the Site, including chlorinated solvent VOCs, are present in overburden groundwater under approximately half of the 99,000 square foot manufacturing building and the northern portion of the LMLLC property. Groundwater elevations are generally encountered at depths of 10 to 16 feet below grade. One groundwater sample, collected from deep groundwater monitoring well (MW-11D) in June 2010, exhibited concentrations of four VOCs, three at concentrations below groundwater quality standards, and the fourth, acetone, detected slightly above standards. Monitoring well MW-11D is located outside the southwest corner of the manufacturing building and up-gradient of chemical use areas. No other VOCs have been detected above standards in the deep groundwater zone.

Based upon the indications of the continued degradation of VOCs on the Site, the preferred approach for site management is monitored natural attenuation of VOCs in groundwater on an annual basis.

The 2017 annual site-wide inspection and groundwater indicate compliance with the conditions of the SMP and continued natural attenuation of groundwater contaminants. No changes to the SMP, site inspection and monitoring requirements are recommended.



1.0 BACKGROUND and SITE OVERVIEW

Subsequent to active remediation, a Site Management Plan (SMP) was prepared for the Lexington Machining LLC (LMLLC) property located at 201 Winchester Road in the Village of Lakewood, Town of Busti, New York, Site # 907004 (the Site). A Site location map is presented in Figure 1. The SMP was prepared to address low levels of volatile organic compounds (VOCs) remaining in soil and groundwater of the Site and is required by the New York State Department of Environmental Conservation (NYSDEC) draft Order on Consent and Administrative Settlement Index # B9-0792-08-10.

Annual Groundwater monitoring is required within section 3.2.1 Groundwater Monitoring of the SMP. This report presents the methods and results of the annual groundwater monitoring conducted in September 2017.

The site is located in the Village of Lakewood, Town of Busti, County of Chautauqua, New York and is situated on three lots identified as Block 385 and Lots 06-3-58, 06-3-59 and 06-3-60 on the Chautauqua County Tax Map. The site is an approximately 5.7-acre area bounded by a Chautauqua Regional Railroad Authority rail line to the north, a residential property and a vacant commercial/industrial facility to the south, Matco Tools manufacturing facility and American Legion Lakewood Memorial Post 1286 to the east, and Winchester Road to the west (see Figure 2).

1.1 HISTORIC OPERATIONS

The site was undeveloped vacant land at least through the 1930s with initial construction of the existing manufacturing building beginning circa 1956. Die casting operations, including aluminum, magnesium, and zinc die castings manufactured for consumer and industrial products, have been located at the property since that time. The manufacturing plant was occupied through the 1980s by Falconer Metal Specialties, which was succeeded by Falconer Die Casting, Lexington Die Casting, and Premier Tool & Die, and Premier Lakewood, Inc. the current operator. Lexington Precision Corporation, the previous owner of the Property, was the owner of Lexington Die Casting before selling the manufacturing equipment and operation to Premier Tool & Die in 2006. The current site owner is LMLLC.

Operations at the site ceased circa April 2014 with removal of equipment and manufacturing materials through the end of August 2014.

1.2 SITE ENVIRONMENTAL SUMMARY

VOCs were identified in Site soil and groundwater during due diligence environmental site investigations and underground storage tank (UST) closure activities between July 2002 and November 2006. The primary soil and groundwater contaminant, 1,1,1-trichloroethane (1,1,1-TCA), had been previously used at the Site as a solvent and degreaser from approximately 1960 through 1991. Breakdown products of 1,1,1-TCA identified in groundwater include 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), chloroethane, and vinyl chloride.



Also identified in several groundwater samples were 1,1,2-trichloroethane (1,1,2-TCA) and its breakdown product 1,2-dichloroethane (1,2-DCA).

An enhanced in-situ bioremediation program was conducted to address VOCs in groundwater at the Site in August through November 2006. The program included injection of bio-amendments into groundwater to support and increase the rate of naturally occurring degradation of contaminants by reductive dechlorination.

Post-remediation groundwater sampling conducted in April 2007, indicated a reduction in 1,1,1-TCA concentrations and an increase in 1,1,1-TCA breakdown products such as 1,1-DCA, and chloroethane

A groundwater sampling program was conducted in June 2010 to evaluate groundwater quality conditions at the Site. The concentrations of the primary contaminant, 1,1,1-TCA, had fallen below NYSDEC Groundwater Quality Standard (GWQS) in all but one monitoring well. The secondary contaminant, 1,1,2-TCA was detected in only one monitoring well at a concentration above the GWQS; the concentration was lower than the previously detected concentrations. Concentrations of contaminant breakdown products are generally increasing at the site. Concentrations of tertiary breakdown products chloroethane and chloroethane are also increasing. Secondary breakdown product concentrations of 1,1-DCA, 1,2-DCA and 1,1-DCE increased under the Site building but decreased in most other areas of the Site. These changes indicate that natural attenuation of the VOC contaminants at the Site is occurring.

Soil contaminants remaining at the site were documented at depths of 4 to 11.5 feet beneath site structures and include chlorinated solvents and acetone at concentrations below criteria for protection of public health in residential, commercial or industrial settings, but above criteria for protection of groundwater.

Groundwater contaminants remaining at the Site, including chlorinated solvent VOCs, are present in overburden groundwater under approximately half of the 99,000 square foot manufacturing building and the northern portion of the LMLLC property. Groundwater elevations are generally encountered at depths of 10 to 16 feet below grade. One groundwater sample, collected from deep groundwater monitoring well (MW-11D) in June 2010, exhibited concentrations of four VOCs, three at concentrations below groundwater quality standards, and the fourth, acetone, detected slightly above standards. Monitoring well MW-11D is located outside the southwest corner of the manufacturing building and up-gradient of chemical use areas. No other VOCs have been detected above standards in the deep groundwater zone.

1.3 ENGINEERING AND INSTITUTIONAL CONTROL

Since remaining contaminated soil and groundwater exists beneath limited areas of the site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. EC/ICs are described fully in SMP section 2.0.



1.3.1 Monitored Natural Attenuation

Site groundwater investigation and monitoring indicate ongoing natural attenuation and degradation of VOC contaminants. Monitored natural attenuation effectiveness will be evaluated through a groundwater monitoring program that will be implemented to monitor groundwater plume characteristics, horizontal and vertical contaminant migration and related controlling processes. Section 2.0 and subsequent sections of this report provide a summary of the 2017 annual groundwater monitoring, monitoring results, conclusions and recommendations.

1.3.2 Institutional Controls

The site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted and restricted residential use, without an evaluation of potential additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area noted on SMP Figure 7, and any potential impacts that are identified at concentrations that may pose a hazard must be mitigated;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.



A site-wide inspection of engineering and institutional controls was completed on September 12, 2017 by representatives of Bureau Veritas North America. The completed Site-Wide Inspection Form is provided in Attachment A. Each of the engineering and institutional controls was in place and remained effective at the time of the inspection and no changes or revisions to the IC/EC plan are recommended or warranted. A completed Site Management Periodic Review Report, Institutional and Engineering Controls Certification Form is provided as Attachment B.

2.0 Annual Groundwater Monitoring

The 2017 annual groundwater monitoring was completed to satisfy the requirements of SMP Sections 2.2.1.1, Monitored Natural Attenuation, and 3.2.1, Groundwater Monitoring.

Monitoring well sampling activities were recorded in a field book and on groundwater-sampling log sheets available in SMP Appendix F. Relevant field observations (e.g., well integrity, etc.) were noted on the well sampling logs. The completed well sampling logs are provided in Appendix C. Because of driveway work and placement of gravel along the northern exterior of the building, monitoring well MW-12 was covered and could not be located at the time of the 2017 annual groundwater sampling event. An attempt was made to locate the well using mapped coordinates and a magnetometer, however the well could not be located.

2.1 Sample Collection

Prior to collecting groundwater samples, the groundwater level in each well was measured and recorded. Observed groundwater elevations are recorded on the well sampling logs and provided in Table 1. Inferred groundwater elevations and contours are depicted in Figure 3. Inferred groundwater flow direction is consistent with historic observations toward the northeast.

Groundwater samples were collected using the low-flow purging and sampling technique using a peristaltic pump and polyethylene tubing at flow rates of 0.1 to 0.4 liters per minute. The samples were collected once stabilization for three consecutive readings was achieved for the following parameters and variances:

- turbidity (10 percent for values greater than 1 NTU),
- dissolved oxygen (10 percent),
- specific conductance (3 percent),
- temperature (3 percent),
- pH (0.1 units) and
- oxygen reduction potential (10 millivolts).

The groundwater field parameters were monitored using a Horiba U-52 multi-parameter water quality meter with flow-through cell. The U-52 meter was calibrated at the beginning of each sampling day using manufacturer provided calibration fluid.



Purge water was collected, contained in a 55-gallon drum and temporarily staged onsite pending disposal.

Groundwater samples were collected directly into laboratory provided bottles and shipped overnight in an ice-filled cooler to Integrated Analytical laboratories, LLC (IAL) in Randolph, New Jersey, a New York State certified laboratory (New York: (NELAP) #11402). Two field blank samples (one per field day) and one trip blank sample were collected for quality assurance/quality control (QA/QC). Appropriate decontamination procedures were followed, and proper chain of custody procedures employed.

Groundwater samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) method 8260C. No contaminants were reported above laboratory detection limits in the field and trip blank samples.

The analytical results were compared to the NYSDEC Groundwater Quality Standards (Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1), and ECL Part 703, Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations) to evaluate targeted compounds present above laboratory detection limits.

3.0 ANALYTICAL RESULTS

IAL provided its Laboratory Report dated September 28, 2017 for the samples collected at the Lexington Machining site (Appendix D). IAL reported that all holding times were met and proper preservation noted for the methods performed on the samples.

Table 2 provides a summary of the sample analytical results for the contaminants of concern in groundwater of the site detected during the 2017 sampling event. Table 3 provides a summary of the historical analytical results for those compounds.

Acetone, methyl ethyl ketone, benzene, and toluene were not detected in any groundwater samples. Detected concentrations of cis-1,2-DCE, in groundwater samples MW-2 (1.08 ug/L), MW-3 (0.463 ug/L estimated) and MW-13 (0.960 ug/L), were not above the respective groundwater quality standard (GWQS) of 5.0 ug/L

Primary contaminants of concern at the site, 1,1,1-TCA and 1,1,2-TCA were detected in several groundwater samples.

1,1,1-TCA was detected at concentrations of 0.500 ug/L, 1.40 ug/L, and 0.761 ug/L in groundwater samples MW-3, MW-11, and MW-1 respectively. These detected concentrations are less than the GWQS for 1,1,1-TCA of 5 ug/L. 1,1,1-TCA was detected at a concentration of 11.2 ug/L in groundwater sample MW-9. The detected concentration exceeds the GWQS for 1,1,1-TCA. 1,1,1-TCA was not detected above the laboratory detection limits in the remaining groundwater samples analyzed.

1,1,2-TCA was detected in groundwater sample MW-10 at a concentration of 1.21 ug/L. The detected concentration exceeds the GWQS for 1,1,2-TCA of 1 ug/L. 1,1,2-TCA was not detected above the laboratory detection limits in the remaining groundwater samples analyzed.



Secondary (breakdown product) contaminants including, 1,1-DCA, 1,1,-DCE, 1,2-DCA (EDC), and chloroethene (vinyl chloride [VC]) were also detected in groundwater samples.

1,1-DCA was detected in twelve of the fourteen groundwater samples. Nine of the twelve detected concentrations exceeded the GWQS of 5 ug/L, while the remaining three detected concentrations were below the GWQS. The maximum concentration of 196 ug/L was detected in MW-9. The other reported concentrations of 1,1,-DCA are listed in Table 2. 1,1-DCA was not detected above the laboratory detection limits in the remaining two groundwater samples.

1,1,-DCE was detected in eleven of the fourteen groundwater samples with eight of the concentrations exceeding the GWQS of 5 ug/L. The maximum concentration of 181 ug/L was detected in MW-9. The other reported concentrations of 1,1,-DCE are listed in Table 2. 1,1-DCE was not detected above the laboratory detection limits in the remaining three groundwater samples.

1,2-DCA was detected in four of the fourteen groundwater samples. The maximum concentration of 3.97 ug/L was detected in MW-9 exceeding the GWQS of 0.6 ug/L. 1,2-DCA was detected at concentrations of 0.851 ug/L, 0.962 ug/L, and 0.955 ug/L in groundwater samples MW-2, MW-3 and MW-13, respectively, each above the GWQS for 1,2-DCA. 1,2-DCA was not reported above detection limits in the other 10 groundwater samples collected.

Vinyl chloride was detected in three of the fourteen groundwater samples with two of the reported concentrations exceeding the GWQS of 2 ug/L. The maximum concentration of 9.32 ug/L was detected in MW-7. Sample MW-14 exhibited a vinyl chloride concentration of 3.91ug/L and sample MW-3 exhibited a vinyl chloride concentration of 1.23 ug/L. Vinyl chloride was not detected above the laboratory detection limits in the remaining groundwater samples.

Tertiary breakdown products, chloroethane, and 1,2-Dichlorobenzene were detected in several groundwater samples analyzed. Chloroethane was detected in six groundwater samples, with three concentrations exceeding the GWQS of 5 ug/L. The maximum chloroethane concentration of 900 ug/L was detected in MW-2. Groundwater samples MW-3 and MW-13 exhibited chloroethane concentrations of 41.8 ug/L and 665 ug/L, respectively. The other reported concentrations of chloroethane are listed in Table 2.

1,2-Dichlorobenzene (ODCB) was detected in three groundwater samples (MW-3, MW-7, and MW-14) at concentrations below the GWQS of 3 ug/L. ODCB was not detected above the laboratory detection limits in the remaining groundwater samples.



4.0 DISCUSSION

Several groundwater samples collected from the monitoring well network at the site continue to exhibit concentrations of contaminants of concern exceeding GWQS. Historical groundwater quality data is provided in Table 3. Monitoring wells exhibited varying conditions including attainment of GWQS and/or non-detectable concentrations of contaminants, decreasing contaminant concentrations or elevated concentrations requiring continued monitoring.

4.1 Acceptable Groundwater Conditions

Five of the fourteen monitoring wells sampled exhibited no detected concentrations of contaminants or detections well below the GWQS, including the following:

Monitoring Well ID	Location on Site
MW-2D	North center outside the building
MW-4	East of the building
MW-5	Northwest of the building
MW-11	West of the building
MW-11D	West of the building

These five monitoring wells have historically been free of concentrations of contaminants above detection limits and/or GWQS. Monitoring wells MW-11, MW-11D and MW-4 are up-gradient and monitoring well MW-5 is cross-gradient of impacted areas. Monitoring well MW-2D is down-gradient of impacted areas and is installed in the site's deeper water bearing zone to 27 feet below ground surface.

4.2 Improving Groundwater Conditions

Groundwater samples collected from four monitoring wells exhibited a decrease in contaminant concentrations between samples collected in October 2016 and in September 2017. The seven monitoring wells include the following:

Monitoring Well ID	Location on Site
MW-7	Northeast of the building
MW-8	Inside the secondary machining area of the building
MW-9	Inside the secondary machining area of the building
MW-10	Inside the compressor area of the building

Monitoring well MW-7 exhibited decreased concentrations of 1,1-DCE from 9.5 ug/L to 5.18 ug/L, 1,1-DCA from 10.2 ug/L to 9.15 ug/L; a slight increase in chloroethane from 3.4 ug/L to 3.58 ug/L and; an increase in chloroethene from 6.8 ug/L to 9.32 ug/L. Other contaminants remained below detection limits in MW-7 and total VOCs detected decreased from 29.9 ug/L to 27.7 ug/L.



MW-7 is the furthest down-gradient well and exhibited improving groundwater conditions with the exception of an increase in chloroethene concentrations since 2016 but comparable to concentrations detected in 2014 and 2015.

In monitoring well MW-8, detected concentrations of 1,1-DCA decreased from 9.7 ug/L to 6.43 ug/L; and 1,1-DCE decreased from 22.1 ug/L to 16.1 ug/L. Other contaminants remained below detection limits in MW-8 and total VOCs decreased from 31.8 ug/L to 22.5 ug/L.

In monitoring well MW-9, detected concentrations of 1,1-DCE decreased from 232 ug/L to 181 ug/L; concentrations of 1,2-DCA decreased from 9.1 ug/L to 3.97 ug/L. However; 1,1-DCA increased from 144 ug/L to 196 ug/L, and; 1,1,1-TCA increased slightly from 10.6 ug/L to 11.2 ug/L while still decreasing overall since 2015. Other contaminants remained below detection limits in MW-9 and total VOCs decreased from 395.7 ug/L to 392 ug/L.

In monitoring well MW-10, detected concentrations of 1,1,2-TCA increased from non-detectable concentrations to 1.21 ug/L, while still decreasing overall since 2015. Concentrations of 1,1-DCE decreased from 9.4 ug/L to 2.32 ug/L; concentration of 1,1-DCA exhibited a decrease from 44.7 ug/L to 38.1 ug/L, and 1,2-DCA concentrations decreased from 1.7 ug/L to below detection limits.

Groundwater samples collected from the monitoring wells within the building, MW-8, MW-9 and MW-10, exhibited improving conditions overall with a slight increase of approximately 0.6 ug/L in the primary contaminant 1,1,1-TCA and an increase in secondary contaminant 1,1-DCA in MW-9.

4.3 Groundwater Conditions for Continued Monitoring

Groundwater samples collected from five monitoring wells exhibited an overall increase in contaminant concentrations between October 2016 and September 2017.

Monitoring Well ID	Location on Site
MW-1	North center outside the building
MW-2	North center outside the building
MW-3	Northeast outside the building
MW-13	Northeast outside the building
MW-14	Northeast outside the building

In monitoring well MW-1, detected concentrations of 1,1-DCE increased from 10.7 ug/L to 11.4 ug/L, still below 2015 and earlier concentrations; 1,1-DCA increased from 5.8 ug/L to 6.71 ug/L, also below 2015 and earlier concentrations. 1,1,1-TCA was detected at a concentration of 0.761 ug/L but below the GWQS of 5.0 ug/L. Other contaminants remained below detection limits in MW-1 and total VOC increased slightly from 16.5 ug/L to 18.9 ug/L.



Monitoring well MW-2 exhibited an increase in concentrations of chloroethane from 417 ug/L to 900 ug/L; 1,1-DCA from 6.4 ug/L to 28.1 ug/L; 1,2-DCA from below detection limits to 0.85 ug/L; 1,1-DCE from 3.8 ug/L to 7.65 ug/L; and cis-1,2-DCE from 1.0 ug/L to 1.08 ug/L. Other contaminants remained below detection limits in MW-2, and total VOC increased from 428.2 ug/L to 946 ug/L.

Monitoring well MW-3 exhibited an increase in concentrations of chloroethane from 21.7 ug/L to 41.8 ug/L; chloroethene from below detection limits to 1.23 ug/L; 1,1-DCA from 28.2 ug/L to 31.2 ug/L; 1,2-DCA from below detection limits to 0.962 ug/L. Concentrations of 1,1-DCE decreased from 89.5 ug/L to 70.4 ug/L; and 1,2-dichlorobenzene decreased from 2.3 ug/L to 1.91 ug/L. 1,1,1-TCA was detected at a concentration of 0.5 ug/L and cis-1,2-DCE was detected at an estimated concentration of 0.46 ug/L. Other contaminants remained below detection limits in MW-3. Total VOCs detected in MW-3 increased slightly from 141.5 ug/L to 150 ug/L.

MW-13 exhibited an increase in concentrations of 1,1-DCE from 4.5 ug/L to 11.7 ug/L; 1,2-DCA increased from below detection limits to 0.995 ug/L; 1,1-DCA from 3.4 ug/L to 13.2 ug/L; and chloroethane from 44.5 ug/L to 665 ug/L. Cis-1,2-DCE was detected at a concentration of 0.96 ug/L, while other contaminants remained below detection limits in MW-13. Total VOCs detected in MW-13 increased from 52.5 ug/L to 699 ug/L.

Monitoring well MW-14 exhibited increases in detected concentrations of chloroethene from 1.1 ug/L to 4.33 ug/L; 1,1-DCA from 5.8 ug/L to 19 ug/L; chloroethane from 1.7 ug/L to 3.91 ug/L; and 1,1-DCE increased from 4.4 ug/L to 18.7 ug/L. 1,2-Dichlorobenzene was detected at a concentration of 0.845 ug/L. Total VOCs detected in MW-14 increased from 13 ug/L to 46.8 ug/L.

Each of these wells is on the downgradient side of the source area and plume and exhibited an increase of contaminant breakdown products. Contaminant increases observed were minimal since 2016 and 2015 or well below historical contaminant concentrations.



5.0 CONCLUSIONS

No non-compliance issues were observed or indicated for the SMP and requirements of the IC/EC have been met through October 2017. Based upon the results of the annual groundwater monitoring completed at the Lexington Machining, LLC site, continued groundwater monitoring is required under the NYSDEC approved Site Management Plan.

Groundwater contaminant concentrations are generally decreasing in the source area groundwater monitoring wells sampled (MW-8, MW-9 and MW-10 located within the building) or remaining below GWQS and/or detection limits in deep, cross-gradient and up-gradient wells (MW- 4, MW-5, MW-2D and MW-11, MW-11D). However, it should be noted that slight increases in concentrations of the primary contaminant 1,1,1-TCA and in secondary contaminant 1,1-DCA were detected in monitoring well MW-9 in the primary source area. In addition, monitoring well MW-1, downgradient from MW-9 also exhibited a slight increase in 1,1,1-TCA, 1,1-DCA and 1,1-DCE.

The furthest downgradient well, MW-7, has exhibited a decrease in detectable contaminants with a slight increase in the breakdown product, vinyl chloride (chloroethene).

Compounds exhibiting increasing or elevated concentrations are primarily breakdown products of the primary contaminants of concern at the site. The predominance of secondary and tertiary breakdown products (e.g., 900 ug/L chloroethane in MW-2) indicates that natural attenuation of groundwater contaminants is continuing at the site.

No additional action, investigation or revisions of the groundwater monitoring scope and schedule is recommended at the site. Lexington Machining will attempt to locate MW-12; if MW-12 is unable to be located it will be replaced / re-installed per applicable regulations and according to the SMP.



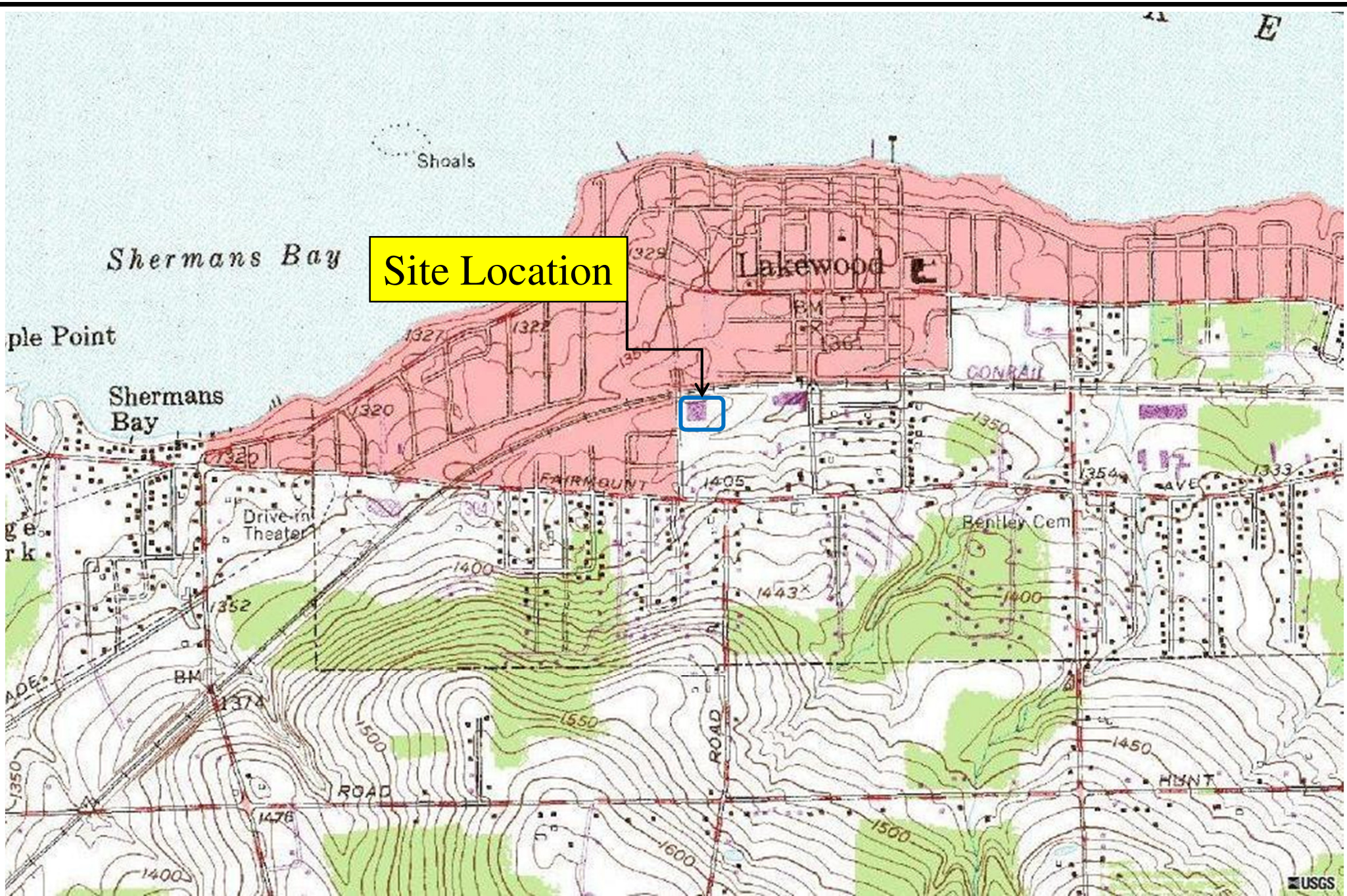
6.0 SIGNATURES

Prepared by: _____
John A. Stangline, ARM, CPEA, CHMM
HSE Director
Northeast Ohio Regional Office

Reviewed by: _____
Timothy N. McCann
Senior Project Manager
Northeast Ohio Regional Office



FIGURES



Project Number: 08017-000138.00

Drawn By: JAS Date: 10-14-17

Reviewed By: JAS Date: 10-14-17

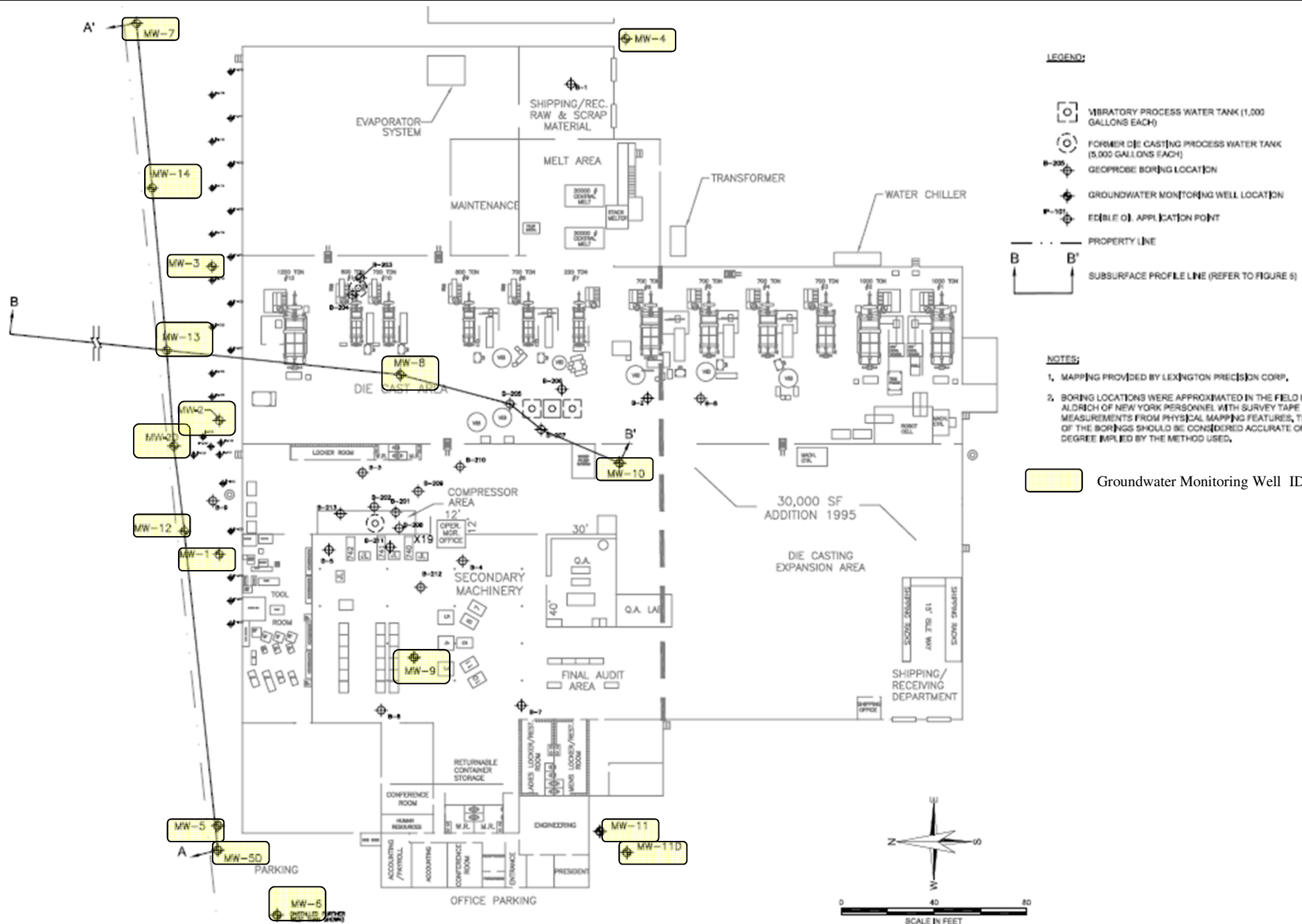
Client:
Lexington Precision Corporation
800 third Avenue, 15th Floor
New York, New York 10022

Location:
Lexington Machining, LLC
201 Winchester Avenue
Lakewood, New York 14750

Title:
Site Location Map

Figure:
1





Source: Summary of Environmental Investigations and Remedial Activities, Haley & Aldrich of New York, January 9, 2007

Project Number: 08017-000138.00

Drawn By: JAS Date: 10-14-17

Reviewed By: JAS Date: 10-14-17

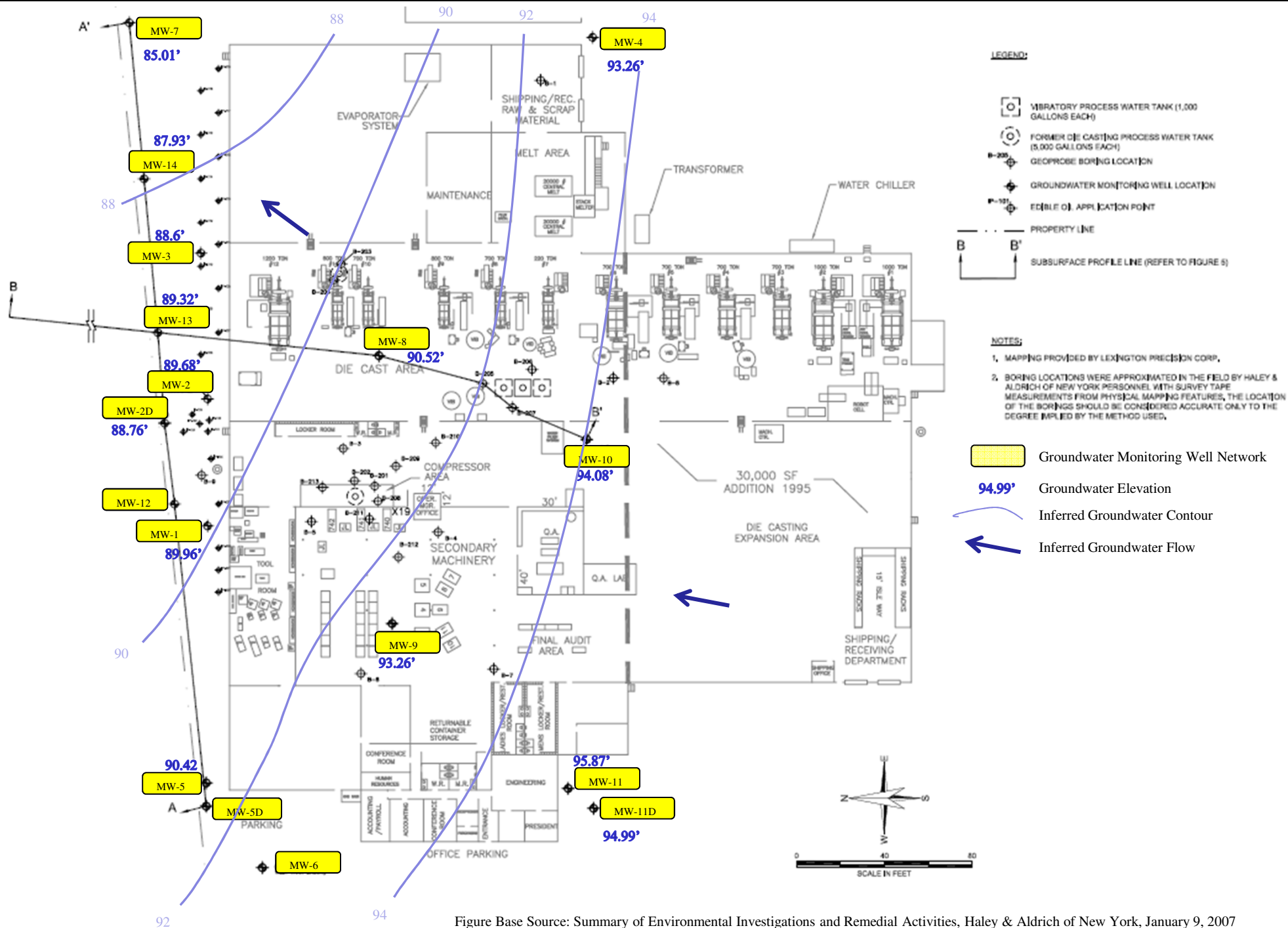
Client:
Lexington Precision Corporation
800 third Avenue, 15th Floor
New York, New York 10022

Location:
Lexington Machining, LLC
201 Winchester Avenue
Lakewood, New York 14750

Title:
Groundwater Monitoring
Well Network

Figure:
2





Project Number: 08017-000138.00

Drawn By: JAS Date: 10-11-17

Reviewed By: JAS Date: 10-12-17

Client:

Lexington Precision Corporation
800 third Avenue, 15th Floor
New York, New York 10022

Location:

Lexington Machining LLC
201 Winchester Avenue
Lakewood, New York 14750

Title:

Inferred Groundwater Elevation

Figure:

3





TABLES

Table 1
September 2017 Groundwater Elevation Measurements

Well ID	Date	Depth to Water (ft)	Ground Surface Elevation (ft) *	Groundwater Elevation (ft)
MW-1	9/12/2017	11.86	101.82	89.96
MW-2	9/12/2017	11.62	101.3	89.68
MW-2D	9/12/2017	12.08	100.84	88.76
MW-3	9/12/2017	12.42	101.02	88.6
MW-4	9/12/2017	8.95	101.08	92.13
MW-5	9/12/2017	12.39	102.81	90.42
MW-7	9/12/2017	14.44	99.45	85.01
MW-8	9/13/2017	14.56	105.08	90.52
MW-9	9/13/2017	11.75	105.01	93.26
MW-10	9/13/2017	10.99	105.07	94.08
MW-11	9/13/2017	8.63	104.5	95.87
MW-11D	9/13/2017	9.24	104.23	94.99
MW-12	NA	NA	100.8	NA
MW-13	9/12/2017	11.48	100.8	89.32
MW-14	9/12/2017	12.57	100.5	87.93

* Ground Surface Elevations derived from the January 9, 2007 Summary of Environmental Investigation and Remedial Actions, Haley & Aldrich

Lexington Machining LLC
201 Winchester Road, Lakewood, NY
Table 2
2017 Groundwater Contamination Summary

Sample #:		TOGs - Table 5	MW-4				MW-7				FIELD BLANK -1			
Field ID:		Groundwater												
Lab ID:		Effluent	07838-001				07838-002				07838-003			
Date Sampled:		Limitations (Class GA)	09/12/2017				09/12/2017				09/12/2017			
Depth(ft):		(ug/L)												
	CAS													
Volatiles (ug/L)			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Vinyl chloride	75-01-4	2	ND		1.00	0.591	9.32		1.00	0.591	ND		1.00	0.591
Chloroethane	75-00-3	5	ND		0.500	0.495	3.58		0.500	0.495	ND		0.500	0.495
1,1-Dichloroethene	75-35-4	5	ND		0.500	0.493	5.18		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	50	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
1,1-Dichloroethane	75-34-3	5	ND		0.500	0.493	9.15		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	5	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	50	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
1,1,1-Trichloroethane	71-55-6	5	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
1,2-Dichloroethane (EDC)	107-06-2	0.6	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	1	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Toluene	108-88-3	5	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
1,1,2-Trichloroethane	79-00-5	1	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	5	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
Chlorobenzene	108-90-7	5	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
1,3-Dichlorobenzene	541-73-1	3	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	3	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	3	ND		0.500	0.364	0.482	J	0.500	0.364	ND		0.500	0.364
TOTAL VO's:		NS	ND			NA	27.7	J		NA	ND			NA
TOTAL TIC's:		NS	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		NS	ND			NA	27.7	J		NA	ND			NA
Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality														
Standards & Guidance Values and Table 5 New York State Groundwater Effluent Limitations														
(Class GA), June 1998.														
BOLD Conc	Indicates a concentration that exceeds applicable criteria.													
BOLD RL	Indicates RL that exceeds applicable criteria.													
BOLD MDL	Indicates MDL that exceeds applicable criteria.													
NS = No Standard Available														
ND = Analyzed for but Not Detected at the MDL														
J = Concentration detected at a value below the RL and above the MDL for target compounds.														
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.														
D = The compound was reported from the Diluted analysis														
N = Presumptive evidence of a compound from the use of GC/MS library search.														

Lexington Machining LLC
201 Winchester Road, Lakewood, NY
Table 2
2017 Groundwater Contamination Summary

Sample #:		TOGs - Table 5	MW-14				MW-3				MW-13			
Field ID:		Groundwater												
Lab ID:		Effluent	07838-004				07838-005				07838-006			
Date Sampled:		Limitations (Class GA)	09/12/2017				09/12/2017				09/12/2017			
Depth(ft):		(ug/L)												
	CAS													
Volatiles (ug/L)			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Vinyl chloride	75-01-4	2	3.91		1.00	0.591	1.23		1.00	0.591	ND		1.00	0.591
Chloroethane	75-00-3	5	4.33		0.500	0.495	41.8		0.500	0.495	665	D	2.50	2.48
1,1-Dichloroethene	75-35-4	5	18.7		0.500	0.493	70.4		0.500	0.493	11.7		0.500	0.493
Acetone	67-64-1	50	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
1,1-Dichloroethane	75-34-3	5	19.0		0.500	0.493	31.2		0.500	0.493	13.2		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	5	ND		0.500	0.451	0.463	J	0.500	0.451	0.960		0.500	0.451
2-Butanone (MEK)	78-93-3	50	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
1,1,1-Trichloroethane	71-55-6	5	ND		0.500	0.462	0.500		0.500	0.462	ND		0.500	0.462
1,2-Dichloroethane (EDC)	107-06-2	0.6	ND		0.500	0.458	0.962		0.500	0.458	0.955		0.500	0.458
Benzene	71-43-2	1	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Toluene	108-88-3	5	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
1,1,2-Trichloroethane	79-00-5	1	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	5	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
Chlorobenzene	108-90-7	5	ND		0.500	0.376	0.410	J	0.500	0.376	ND		0.500	0.376
1,3-Dichlorobenzene	541-73-1	3	ND		0.500	0.351	0.352	J	0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	3	ND		0.500	0.341	0.410	J	0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	3	0.845		0.500	0.364	1.91		0.500	0.364	ND		0.500	0.364
TOTAL VO's:		NS	46.8			NA	150	J		NA	692	D		NA
TOTAL TIC's:		NS	ND			NA	ND			NA	6.90	JN		NA
TOTAL VO's & TIC's:		NS	46.8			NA	150	J		NA	699	DJN		NA
Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality														
Standards & Guidance Values and Table 5 New York State Groundwater Effluent Limitations														
(Class GA), June 1998.														
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Lexington Machining LLC
201 Winchester Road, Lakewood, NY
Table 2
2017 Groundwater Contamination Summary

Sample #:		TOGs - Table 5	MW-2				MW-2D				TRIP BLANK			
Field ID:		Groundwater												
Lab ID:		Effluent	07838-007				07838-008				07838-009			
Date Sampled:		Limitations (Class GA)	09/12/2017				09/12/2017				09/12/2017			
Depth(ft):		(ug/L)												
	CAS													
Volatiles (ug/L)			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Vinyl chloride	75-01-4	2	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Chloroethane	75-00-3	5	900	D	5.00	4.95	4.45		0.500	0.495	ND		0.500	0.495
1,1-Dichloroethene	75-35-4	5	7.65		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	50	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
1,1-Dichloroethane	75-34-3	5	28.1		0.500	0.493	0.499	J	0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	5	1.08		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	50	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
1,1,1-Trichloroethane	71-55-6	5	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
1,2-Dichloroethane (EDC)	107-06-2	0.6	0.851		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	1	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Toluene	108-88-3	5	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
1,1,2-Trichloroethane	79-00-5	1	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	5	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
Chlorobenzene	108-90-7	5	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
1,3-Dichlorobenzene	541-73-1	3	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	3	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	3	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
TOTAL VO's:		NS	938	D		NA	4.95	J		NA	ND			NA
TOTAL TIC's:		NS	8.00	JN		NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		NS	946	DJN		NA	4.95	J		NA	ND			NA
Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality														
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201 Winchester Road, Lakewood, NY
Table 2
2017 Groundwater Contamination Summary

Sample #:		TOGs - Table 5	MW-1				MW-5				MW-8			
Field ID:		Groundwater												
Lab ID:		Effluent	07838-010				07838-011				07838-012			
Date Sampled:		Limitations (Class GA)	09/12/2017				09/12/2017				09/13/2017			
Depth(ft):		(ug/L)												
	CAS													
Volatiles (ug/L)			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Vinyl chloride	75-01-4	2	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Chloroethane	75-00-3	5	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
1,1-Dichloroethene	75-35-4	5	11.4		0.500	0.493	ND		0.500	0.493	16.1		0.500	0.493
Acetone	67-64-1	50	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
1,1-Dichloroethane	75-34-3	5	6.71		0.500	0.493	ND		0.500	0.493	6.43		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	5	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	50	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
1,1,1-Trichloroethane	71-55-6	5	0.761		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
1,2-Dichloroethane (EDC)	107-06-2	0.6	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	1	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Toluene	108-88-3	5	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
1,1,2-Trichloroethane	79-00-5	1	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	5	ND		0.500	0.451	1.18		0.500	0.451	ND		0.500	0.451
Chlorobenzene	108-90-7	5	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
1,3-Dichlorobenzene	541-73-1	3	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	3	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	3	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
TOTAL VO's:		NS	18.9			NA	1.18			NA	22.5			NA
TOTAL TIC's:		NS	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		NS	18.9			NA	1.18			NA	22.5			NA
Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality														
Standards & Guidance Values and Table 5 New York State Groundwater Effluent Limitations														
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Lexington Machining LLC
201 Winchester Road, Lakewood, NY
Table 2
2017 Groundwater Contamination Summary

Sample #:		TOGs - Table 5	MW-10				MW-9				FIELD BLANK -2			
Field ID:		Groundwater												
Lab ID:		Effluent	07838-013				07838-014				07838-015			
Date Sampled:		Limitations (Class GA)	09/13/2017				09/13/2017				09/13/2017			
Depth(ft):		(ug/L)												
	CAS													
Volatiles (ug/L)			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Vinyl chloride	75-01-4	2	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Chloroethane	75-00-3	5	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
1,1-Dichloroethene	75-35-4	5	2.32		0.500	0.493	181	D	1.00	0.986	ND		0.500	0.493
Acetone	67-64-1	50	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
1,1-Dichloroethane	75-34-3	5	38.1		0.500	0.493	196		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	5	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	50	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
1,1,1-Trichloroethane	71-55-6	5	ND		0.500	0.462	11.2		0.500	0.462	ND		0.500	0.462
1,2-Dichloroethane (EDC)	107-06-2	0.6	ND		0.500	0.458	3.97		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	1	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Toluene	108-88-3	5	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
1,1,2-Trichloroethane	79-00-5	1	1.21		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	5	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
Chlorobenzene	108-90-7	5	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
1,3-Dichlorobenzene	541-73-1	3	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	3	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	3	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
TOTAL VO's:		NS	41.6			NA	392	D		NA	ND			NA
TOTAL TIC's:		NS	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		NS	41.6			NA	392	D		NA	ND			NA
Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality														
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Lexington Machining LLC
201 Winchester Road, Lakewood, NY
Table 2
2017 Groundwater Contamination Summary

Sample #:		TOGs - Table 5	MW-11D				MW-11			
Field ID:		Groundwater								
Lab ID:		Effluent	07838-016				07838-017			
Date Sampled:		Limitations (Class GA)	09/13/2017				09/13/2017			
Depth(ft):		(ug/L)								
	CAS									
Volatiles (ug/L)			Conc	Q	RL	MDL	Conc	Q	RL	MDL
Vinyl chloride	75-01-4	2	ND		1.00	0.591	ND		1.00	0.591
Chloroethane	75-00-3	5	ND		0.500	0.495	ND		0.500	0.495
1,1-Dichloroethene	75-35-4	5	1.51		0.500	0.493	1.35		0.500	0.493
Acetone	67-64-1	50	ND		2.00	1.33	ND		2.00	1.33
1,1-Dichloroethane	75-34-3	5	1.00		0.500	0.493	1.24		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	5	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	50	ND		2.00	1.66	ND		2.00	1.66
1,1,1-Trichloroethane	71-55-6	5	ND		0.500	0.462	1.40		0.500	0.462
1,2-Dichloroethane (EDC)	107-06-2	0.6	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	1	ND		0.500	0.464	ND		0.500	0.464
Toluene	108-88-3	5	ND		0.500	0.379	ND		0.500	0.379
1,1,2-Trichloroethane	79-00-5	1	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	5	ND		0.500	0.451	ND		0.500	0.451
Chlorobenzene	108-90-7	5	ND		0.500	0.376	ND		0.500	0.376
1,3-Dichlorobenzene	541-73-1	3	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	3	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	3	ND		0.500	0.364	ND		0.500	0.364
TOTAL VO's:		NS	2.51			NA	3.99			NA
TOTAL TIC's:		NS	ND			NA	ND			NA
TOTAL VO's & TIC's:		NS	2.51			NA	3.99			NA
Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality										
Standards & Guidance Values and Table 5 New York State Groundwater Effluent Limitations										
(Class GA), June 1998.										
BOLD Conc	Indicates a concentration that exceeds applicable criteria.									
BOLD RL	Indicates RL that exceeds applicable criteria.									
BOLD MDL	Indicates MDL that exceeds applicable criteria.									
NS = No Standard Available										
ND = Analyzed for but Not Detected at the MDL										
J = Concentration detected at a value below the RL and above the MDL for target compounds.										
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.										
D = The compound was reported from the Diluted analysis										
N = Presumptive evidence of a compound from the use of GC/MS library search.										

Lexington Machining LLC
201 Winchester Road, Lakewood, NY
Table 3 - Historic Groundwater Sample Data

Well	Date	Chloroethane (ug/L)	Chloroethene (ug/L)	1,1-DCA (ug/L)	1,2-DCA (ug/L)	1,1-DCE (ug/L)	cis-1,2-DCE (ug/L)	1,1,1-TCA (ug/L)	1,1,2-TCA (ug/L)	Benzene (ug/L)	Acetone (ug/L)	Toluene (ug/L)	ODCB (ug/L)	MEK (ug/L)	Total VOCs (ug/L)
NYSDEC GWQS		5	2	5	6	5	5	5	1	1	50	5	3	50	
Well	Date	Chloroethane (ug/L)	Chloroethene (ug/L)	1,1-DCA (ug/L)	1,2-DCA (ug/L)	1,1-DCE (ug/L)	cis-1,2-DCE (ug/L)	1,1,1-TCA (ug/L)	1,1,2-TCA (ug/L)	Benzene (ug/L)	Acetone (ug/L)	Toluene (ug/L)	ODCB (ug/L)	MEK (ug/L)	Total VOCs (ug/L)
MW-1	5/23/2005	BDL	BDL	210	9.15	370	BDL	174	BDL	BDL	BDL	-	-	-	763.2
	8/17/2006	BDL	BDL	85	3.6	190	BDL	61	BDL	BDL	BDL	-	-	-	339.6
	11/6/2006	13.8	BDL	16.6	BDL	19.4	BDL	5.34	BDL	BDL	BDL	-	-	-	55.1
	4/18/2007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	-	-	0
	6/2/2010	137	2.02	25.1	0.331	75.9	BDL	12.6	BDL	BDL	19.7 FB	0.502 J	0.737 J	BDL	274
	6/30/2014	11	BDL	9	0.32 J	26	BDL	0.53 J	BDL	BDL	BDL	BDL	0.45 J	BDL	47.42
	11/9/2015	1.2	BDL	10.7	BDL	16.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	28
	10/25/2016	BDL	BDL	5.8	BDL	10.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	16.5
	9/12/2017	BDL	BDL	6.71	BDL	11.4	BDL	0.761	BDL	BDL	BDL	BDL	BDL	BDL	18.9
MW-2	5/23/2005	1100	BDL	81.2	3.92	68.3	BDL	53.8	BDL	BDL	10.3	-	-	-	1317.5
	8/17/2006	750	BDL	82	7.3	86	2.6	42	BDL	BDL	BDL	-	-	-	969.9
	11/6/2006	701	BDL	18.6	9.06	6.8	2.68	BDL	BDL	BDL	BDL	-	-	-	738.1
	4/18/2007	760	BDL	19	6.8	8.4	3.2	BDL	BDL	-	-	-	-	-	799
	6/2/2010	1300	BDL	27.2	BDL	27.6	BDL	BDL	BDL	BDL	200 FB	BDL	BDL	BDL	1550
	6/30/2014	100	BDL	11	0.55 J	2.5	0.40 J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	114.45
	11/9/2015	950	BDL	16.4	1.7	9.6	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	979.1
	10/25/2016	417	BDL	6.4	BDL	3.8	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	428.2
	9/12/2017	900	BDL	28.1	0.85	7.65	1.08	BDL	BDL	BDL	BDL	BDL	BDL	BDL	946
MW-2D	8/1/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	0
	6/2/2010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	6/30/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	11/9/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	BDL	-	0
	10/25/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	9/12/2017	4.45	BDL	0.499 J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.95
MW-3	5/23/2005	15.3	BDL	87.3	2.4	72.7	BDL	98.9	BDL	0.815	58.1	-	-	-	335.5
	8/17/2006	5.4	BDL	35	BDL	62	BDL	43	BDL	BDL	BDL	-	-	-	145.4
	11/6/2006	72.8	BDL	34.1	BDL	63.4	BDL	22.1	BDL	BDL	BDL	-	-	-	192.4
	4/18/2007	BDL	BDL	4.1	BDL	6	BDL	1.8	BDL	-	-	-	-	-	12
	6/2/2010	31.1	1.23	BDL	BDL	41.6	10.3	BDL	BDL	BDL	4.96 FB	BDL	BDL	BDL	89.2
	6/30/2014	16	0.70 J	60	0.68 J	74	0.46 J	17	BDL	0.15 J	BDL	BDL	10	BDL	BDL
	11/9/2015	57	2.5	58.5	1.8	152	BDL	BDL	BDL	BDL	BDL	BDL	3.1	BDL	272.4
	10/25/2016	21.7	BDL	28.2	BDL	89.5	BDL	BDL	BDL	BDL	BDL	BDL	2.3	BDL	141.7
	9/12/2017	41.8	1.23	31.2	0.962	70.4	0.46 J	0.5	BDL	BDL	BDL	BDL	1.91	BDL	150
MW-4	5/23/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12.7	-	-	-	12.7
	6/2/2010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	7/1/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	11/9/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	10/26/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	9/12/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
MW-5	8/1/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	0.0
	6/2/2010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	6/30/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	11/9/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	10/25/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	9/12/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.18
MW-5D	8/1/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	0.0
	6/2/2010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.23 FB	BDL	BDL	BDL	5.23
	6/30/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14 J	BDL	BDL	BDL	BDL	0.14
MW-6	8/1/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	0.0
	6/2/2010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	6/30/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
MW-7	8/1/2005	5.93	BDL	34	BDL	21.9	BDL	42.4	BDL	BDL	BDL	-	-	-	104.2
	8/17/2006	3.3	BDL	38	BDL	49	BDL	52	BDL	BDL	BDL	-	-	-	142.3
	11/6/2006	17.2	BDL	25.6	BDL	70.9	BDL	48.9	BDL	BDL	BDL	-	-	-	162.6
	4/18/2007	BDL	1.4	6	BDL	15	BDL	8	BDL	-	-	-	-	-	30
	6/2/2010	15.5	22.3	22.3	0.453 J	19.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	80.1
	7/1/2014	11	9.2	20	0.33 J	35	0.27 J	0.32 J	BDL	BDL	BDL	BDL	0.62 J	BDL	79
	11/9/2015	5.3	9	12.8	BDL	10.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	28.8
	10/25/2016	3.4	6.8	10.2	BDL	9.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.9
	9/12/2017	3.58	9.32	9.15	BDL	5.18	BDL	BDL	BDL	BDL	BDL	BDL	0.482 J	BDL	27.7
MW-8	8/1/2005	BDL	BDL	28.7	BDL	10.5	BDL	2.02	2.02	BDL	BDL	-	-	-	43.2
	8/17/2006	BDL	BDL	14	BDL	7.6	BDL	BDL	BDL	BDL	BDL	-	-	-	21.6
	11/6/2006	BDL	BDL	15.3	BDL	7.78	BDL	BDL	BDL	BDL	BDL	-	-	-	23.1
	4/19/2007	BDL	1.5	7.9	BDL	3.8	BDL	2.6	BDL	-	-	-	-	-	16
	6/2/2010	1.08	0.631 J	36.2	0.587 J	61.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	99.7
	7/1/2014	BDL	BDL	390	11	410	BDL	7.5	0.64 J	0.25 J	BDL	BDL	BDL	BDL	818.5
	11/9/2015	BDL	BDL	7.1	BDL	13.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21
	10/26/2016	BDL	BDL	9.7	BDL	22.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	31.8
	9/13/2017	BDL	BDL	6.43	BDL	16.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22.5
MW-9	8/1/2005	BDL	BDL	108	4.35	294	BDL	19	BDL	BDL	BDL	-	-	-	425.4
	8/17/2006	18	BDL	400	16	500	BDL	42	BDL	BDL	BDL	-	-	-	976
	11/6/2006	BDL	BDL	71.5	3.44	15	BDL	6.92	BDL	BDL	BDL	-	-	-	238.9
	4/19/2007	BDL	33	180	15	590	BDL	43	BDL	-	-	-	-	-	846
	6/2/2010	BDL	BDL	346	11.4	788	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1150
	7/1/2014	BDL	BDL	15	0.27 J	36	0.33	0.21 J	BDL	BDL	BDL	BDL	BDL	BDL	51.33
	11/9/2015	BDL	BDL	216	6.8	328	BDL	17.6	BDL	BDL	BDL	BDL	BDL	BDL	568.4
	10/26/2016	BDL	BDL	144	9.1	232	BDL	10.6	BDL	BDL	BDL	BDL	BDL	BDL	395.7
	9/13/2017	BDL	BDL	196	3.97	181	BDL	11.2	BDL	BDL	BDL	BDL	BDL	BDL	392
MW-10	8/1/2005	BDL	BDL	77	BDL	5.9	BDL	BDL	BDL	BDL	BDL	-	-	-	83
	8/17/2006	BDL	BDL	110	1.6	14	BDL	3.5	3.4	BDL	BDL	-	-	-	132.5
	6/2/2010	BDL	BDL	BDL	0.715 J	58.7	0.496 J	BDL	2.65	BDL	BDL	BDL	BDL	BDL	169
	7/1/2014	BDL	BDL	44	BDL	8.2	BDL	0.18 J	1.8	0.11 J	BDL	BDL	BDL	BDL	55.1
	11/9/2015	BDL	BDL	40	BDL	4.1	BDL	BDL	1.9	BDL	BDL	BDL	BDL	BDL	44.1
	10/26/2016	BDL	BDL	44.7	1.7	9.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	55.8
	9/13/2017	BDL	BDL	38.1	BDL	2.32	BDL	BDL	1.21	BDL	BDL	BDL	BDL	BDL	41.6

Lexington Machining LLC
201 Winchester Road, Lakewood, NY
Table 3 - Historic Groundwater Sample Data

NYSDEC GWQS		5	2	5	0.6	5	5	5	1	1	50	5	3	50	
Well	Date	Chloroethane (ug/L)	Chloroethene (ug/L)	1,1-DCA (ug/L)	1,2-DCA (ug/L)	1,1-DCE (ug/L)	cis-1,2-DCE (ug/L)	1,1,1-TCA (ug/L)	1,1,2-TCA (ug/L)	Benzene (ug/L)	Acetone (ug/L)	Toluene (ug/L)	ODCB (ug/L)	MEK (ug/L)	Total VOCs (ug/L)
MW-11	8/1/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	-	-	0.0
	4/19/2007	BDL	BDL	BDL	BDL	BDL	BDL	1.6	BDL	-	-	-	-	-	
	6/2/2010	BDL	BDL	0.502 J	BDL	0.572 J	BDL	BDL	BDL	BDL	3.79 FB	BDL	BDL	BDL	4.86
	7/1/2014	BDL	BDL	0.53 J	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	1.63
	11/9/2015	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	3.2
	10/26/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	9/13/2017	BDL	BDL	1.24	BDL	1.35	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	3.99
MW-11D	8/1/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	-	-	0.0
	6/2/2010	BDL	BDL	0.999 J	BDL	BDL	BDL	BDL	BDL	0.458 J	58.2 FB	BDL	BDL	3.13	62.8
	7/1/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18 J	BDL	BDL	BDL	BDL	0.18
	11/9/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	10/26/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
	9/13/2017	BDL	BDL	1	BDL	1.51	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.51
MW-12	11/6/2006	19.2	BDL	7.5	BDL	14	BDL	3.4	BDL	-	-	-	-	-	44
	4/19/2007	190	BDL	6.8	BDL	2.2	BDL	BDL	BDL	-	-	-	-	-	199
	6/2/2010	851	BDL	20.9	BDL	28.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	900
	6/30/2014	BDL	BDL	9.3	0.19 J	17	BDL	1	BDL	BDL	BDL	BDL	0.43 J	BDL	27.9
	11/9/2015						Unable to Locate Well - no sample								
	10/26/2016						Unable to Locate Well - no sample								
	9/12/2017						Unable to Locate Well - no sample								
MW-13	11/6/2006	BDL	BDL	3.8	BDL	BDL	BDL	BDL	BDL	-	-	-	-	-	3.8
	4/19/2007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	-	-	0
	6/2/2010	25.9	BDL	1.96	BDL	9.06	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36.9
	6/30/2014	1200	BDL	69	2.9 J	8.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
	11/9/2015	272	BDL	10.6	1	12.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	296.1
	10/25/2016	44.5	BDL	3.4	BDL	4.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	52.5
	9/12/2017	665	BDL	13.2	0.955	11.7	0.96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	699
MW-14	11/6/2006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	-	-	0
	4/18/2007	BDL	BDL	5.5	BDL	16	BDL	8.5	BDL	-	-	-	-	-	30
	6/2/2010	1.59	1.49	2.12	BDL	2.96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.16
	7/1/2014	14	3.1	33	0.21 J	42	0.22 J	3.2	BDL	BDL	BDL	BDL	2.3	BDL	99.68
	11/9/2015	BDL	1.2	10.5	BDL	1.8	BDL	BDL	BDL	BDL	BDL	BDL	1.6	BDL	12.3
	10/25/2016	1.7	1.1	5.8	BDL	4.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13
	9/12/2017	3.91	4.33	19	BDL	18.7	BDL	BDL	BDL	BDL	BDL	BDL	0.845	BDL	46.8
Field Blank-1	9/12/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
Field Blank-2	9/13/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0
Trip Blank	9/12/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0

NYSDEC GWQS - New York State Department of Environmental conservation groundwater quality standards

"-" Not analyzed or sampled

"BDL" Below detection limit

"J" estimated concentration

"FB" Also detected in field blank sample

"1,1-DCA" 1,1-dichloroethane

"1,2-DCA" 1,2-dichloroethane

"1,1-DCE" 1,1-dichloroethene

"cis 1,2-DEC" cis-1,2-dichloroethene

"1,1,1-TCA" 1,1,1-Trichloroethane

"1,1,2-TCA" 1,1,2-Trichloroethane

"ODCB" 1,2-Dichlorobenzene

"MEK" 2-butanone (aka Methyl ethyl ketone)

Chloroethene (a.k.a. vinyl chloride)

Bold type and shading indicates an exceedance of GWQS



Appendix A

SITE-WIDE INSPECTION FORM

SITE-WIDE INSPECTION FORM

Inspection Period: October 2016 through September 2017

Reason for inspection: ☒ Annual ☐ Severe Weather Event

(Site-wide inspection required annually or following a severe weather event that may have damaged site engineering controls or monitoring wells)

Project location: 201 Winchester Road, Lakewood, New York

Inspection date / time: 9/12/2017 @ 1200 conducted by: Kyle Young, EHS Consultant

Weather: Mostly sunny and dry in with temperatures circa 60°F

Site remains industrial/commercial use? ☒ Yes ☐ No

If no, what is the current use? _____

Is site occupied and operational? Vacant

Are structures indicated on the Site Layout Map of SMP Figure 2 remaining?

☒ Yes ☐ No

If no, described current site conditions, specifically condition of the concrete floor of the existing / former structure _____

Are monitoring wells depicted on SMP Figure 8 in place and undamaged?

☐ Yes ☒ No

If no, described monitoring well conditions MW-12 is buried under gravel and cannot be located. The metal bolt rings associated with MW-5 and MW-6 are broken.

Has the annual groundwater monitoring program been implemented for the inspection period? ☒ Yes ☐ No

Have monitoring results been reported to the NYSDEC as indicated in the SMP?

☒ Yes ☐ No

Are records required by the SMP complete, current and available at the Site?

☐ Yes ☒ No

If not available on-site are there records available elsewhere?

☒ Yes ☐ No Where? Lexington Machining LLC offices, 677 Buffalo Road, Rochester, NY 14611

Have any reportable spills of regulated materials occurred or evidence of former spills be discovered? ☐ Yes ☒ No . If Yes, describe: _____



Appendix B

SITE MANAGEMENT PERIODIC REVIEW REPORT, INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1	
Site No.	907044		
Site Name Lexington Machining LLC			
Site Address: 201 Winchester Road Zip Code: 14750			
City/Town: Lakewood			
County: Chautauqua			
Site Acreage: 6.2			
Reporting Period: September 18, 2016 to September 18, 2017			
		YES	NO
1. Is the information above correct?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Box 2	
		YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative	Date
---	------

Description of Institutional ControlsParcelOwnerInstitutional Control**385.06-3-58**

Lexington Machining LLC

Ground Water Use Restriction
 Soil Management Plan
 Landuse Restriction
 Building Use Restriction
 Monitoring Plan
 Site Management Plan
 IC/EC Plan

- The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted and restricted residential use, without an evaluation of potential additional remediation and amendment of the Environmental Easement as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Site Management Plan;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified at concentrations that may pose a hazard must be mitigated;
- Vegetable gardens and farming on the site are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

385.06-3-59

Lexington Machining LLC

Ground Water Use Restriction
 Soil Management Plan
 Landuse Restriction
 Building Use Restriction
 Monitoring Plan
 Site Management Plan
 IC/EC Plan

- The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted and restricted residential use, without an evaluation of potential additional remediation and amendment of the Environmental Easement as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Site Management Plan;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified at concentrations that may pose a hazard must be mitigated;
- Vegetable gardens and farming on the site are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Ground Water Use Restriction
 Soil Management Plan
 Landuse Restriction
 Building Use Restriction
 Monitoring Plan
 Site Management Plan
 IC/EC Plan

- The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
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- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Site Management Plan;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified at concentrations that may pose a hazard must be mitigated;
- Vegetable gardens and farming on the site are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

385.06-3-58

Vapor Mitigation

Monitored Natural Attenuation

Site groundwater investigation and monitoring indicate ongoing natural attenuation and degradation of VOC contaminants. Monitored natural attenuation effectiveness will be evaluated through a groundwater monitoring program that will be implemented to monitor groundwater plume characteristics, horizontal and vertical contaminant migration and related controlling processes. The groundwater monitoring program will be conducted on an annual basis and in accordance with the USEPA guidance for monitored natural attenuation.

Vapor Mitigation

Periodic certification of industrial use will be required. In conformance with the Site Management Plan, any future reuse of existing on-site buildings for uses other than industrial will require an updated soil vapor intrusion (SVI) assessment. If the updated SVI assessment determines SVI is occurring and the values pose a health risk for intended use of the building(s), a sub-slab depressurization system, or a similar engineered system, to prevent the migration of vapors into the building from soil and/or groundwater will be required.

385.06-3-59

Vapor Mitigation

Monitored Natural Attenuation

Site groundwater investigation and monitoring indicate ongoing natural attenuation and degradation of VOC contaminants. Monitored natural attenuation effectiveness will be evaluated through a groundwater monitoring program that will be implemented to monitor groundwater plume characteristics, horizontal and vertical contaminant migration and related controlling processes. The groundwater monitoring program will be conducted on an annual basis and in accordance with the USEPA guidance for monitored natural attenuation.

Vapor Mitigation

Periodic certification of industrial use will be required. In conformance with the Site Management Plan, any future reuse of existing on-site buildings for uses other than industrial will require an updated soil vapor intrusion (SVI) assessment. If the updated SVI assessment determines SVI is occurring and the values pose a health risk for intended use of the building(s), a sub-slab depressurization system, or a similar engineered

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Parcel

Engineering Control

system, to prevent the migration of vapors into the building from soil and/or groundwater will be required.
385.06-3-60

Vapor Mitigation

Monitored Natural Attenuation

Site groundwater investigation and monitoring indicate ongoing natural attenuation and degradation of VOC contaminants. Monitored natural attenuation effectiveness will be evaluated through a groundwater monitoring program that will be implemented to monitor groundwater plume characteristics, horizontal and vertical contaminant migration and related controlling processes. The groundwater monitoring program will be conducted on an annual basis and in accordance with the USEPA guidance for monitored natural attenuation

Vapor Mitigation

Periodic certification of industrial use will be required. In conformance with the Site Management Plan, any future reuse of existing on-site buildings for uses other than industrial will require an updated soil vapor intrusion (SVI) assessment. If the updated SVI assessment determines SVI is occurring and the values pose a health risk for intended use of the building(s), a sub-slab depressurization system, or a similar engineered system, to prevent the migration of vapors into the building from soil and/or groundwater will be required.

IC CERTIFICATIONS
SITE NO. 907044

Box 6

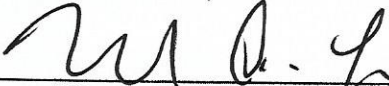
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michael Lubin, Chairman at 474 48th Avenue, Long Island City, NY 11109,
print name print business address

am certifying as Lexington Machining, LLC (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

10/12/17
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John A. Stangline, ARM, CHMM at 520 South Main Street, Suite 2444, Akron, Ohio 44311,
print name print business address

am certifying as a Qualified Environmental Professional for the Lexington Machining, LLC
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

10/12/2017
Date



Appendix C

GROUNDWATER SAMPLING LOGS

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-1

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 9/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: SUNNY

SAMPLING TIME: 1520 AMBIENT TEMP: 75 °F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 11.86

PURGE METHOD: PERISTALTIC PUMP / LOW FLOW

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.25

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1450	11.85	18.6	.226	18.10	3.56	7.046.98	130
1454	12.30	1.4	.221	16.31	3.08	6.98	151
1458	12.23	0.0	.220	16.42	2.51	6.94	126
1502	12.19	0.0	.225	16.34	1.26	6.91	72
1506	12.19	0.0	.227	16.12	1.10	6.88	63
1510	12.19	0.0	.229	16.11	1.02	6.87	65
1514	12.19	0.0	.231	15.89	.98	6.85	64

1

Comments: Clear, No Odor, No Sheen

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-2

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 9/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: SUNNY

SAMPLING TIME: 1255 AMBIENT TEMP: 65 °F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 11.62

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~0.75

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1240	12.18	2.7	.328	17.23	0.25	7.06	-61
1244	12.10	0.0	.317	16.13	0.0	7.02	-64
1248	12.09	0.0	.315	15.81	0.0	7.00	-67
1252	12.09	0.0	.315	15.69	0.0	6.99	-69

Comments: Light Gray - Clear, Sulfur-like Odor, No Sheen

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-2D

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 9/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: SUNNY

SAMPLING TIME: 1320 AMBIENT TEMP: 65 °F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 12.08

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.0

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1304	12.98	83.7	.145	17.22	.37	8.33	-219
1308	13.14	13.7	.144	16.68	.09	8.40	-256
1312	13.35	12.2	.141	17.15	.09	8.31	-249
1316	13.49	11.7	.140	17.55	.06	8.25	-242

Comments: Clear, no odor, no sheen, some black rust particles

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-3

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 9/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: CLOUDY

SAMPLING TIME: 1130 AMBIENT TEMP: 65 °F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 12.42

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? X YES _____ NO

TOTAL GALLONS PURGED: ~1.2

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1101	13.43	12.1	.732	15.79	.24	6.92	-84
1105	13.74	1.1	.714	15.52	0.0	6.85	-92
1109	13.89	4.2	.734	15.53	0.0	6.87	-101
1113	14.34	18.9	.741	15.54	0.0	6.90	-107
1117	14.60	12.1	.747	15.57	0.0	6.91	-110
1121	14.71	10.1	.742	15.64	0.0	6.90	-108

Comments: gray to clear, no sheen, sulfur odor, Pumped dry @ 1123

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-4

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 9/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: SUNNY

SAMPLING TIME: 0930 AMBIENT TEMP: 58°F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 8.95

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.25

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
0914	10.01	14.0	.867	18.76	.91	6.88	7
0918	10.35	0.0	.867	18.72	.75	6.90	13
0922	10.47	0.0	.868	18.64	.66	6.91	17
0926	10.54	0.0	.866	18.68	.62	6.92	20

Comments: Clear, no odor

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-5

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 09/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: SUNNY

SAMPLING TIME: 1605 AMBIENT TEMP: 75°F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 12.39

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.5

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1542	13.57	33.7	.935	18.67	8.09	7.24	130
1546	14.02	81.3	.769	18.59	7.09	7.18	159
1550	14.35	109	.611	18.56	6.49	7.08	164
1554	14.75	132	.612	18.21	6.15	7.07	168
1558	14.87	140	.632	18.26	5.97	7.08	169
1602	14.92	131	.654	18.18	5.81	7.08	169

Comments: LIGHT GRAY TO CLEAR, NO ODOR, NO SHEEN

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-7

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 09/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: CLOUDY

SAMPLING TIME: 1000 AMBIENT TEMP: 60°F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 14.44

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.0

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
0949	14.55	0.0	.670	13.94	0.0	6.67	-56
0953	14.56	0.0	.670	13.96	0.0	6.67	-63
0957	14.57	0.0	.670	13.98	0.0	6.67	-66

Comments: Sulfur odor, clear, no sheen

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-8

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 09/13/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: INDOORS

SAMPLING TIME: 0820 AMBIENT TEMP: 65°F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 14.56

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.25

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
0755	16.65	5.2	.599	14.91	3.38	7.44	-27
0759	16.29	1.2	.589	15.12	4.38	7.45	-80
0803	16.29	0.0	.590	15.17	3.94	7.46	-87
0805	16.55	8.3	.581	15.35	5.63	7.52	-82
0809	16.60	9.8	.570	15.27	5.12	7.53	-91
0813	16.64	8.4	.567	15.28	5.05	7.53	-100

Comments: Clear, No Odor, No Sheen

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-9

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 09/13/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: INDOOR

SAMPLING TIME: 0935 AMBIENT TEMP: 60°F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 11.75

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.5

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
0910	12.53	27.1	.782	16.14	0.69	7.20	93
0914	12.65	28.6	.785	16.25	3.41	7.20	104
0918	12.88	17.6	.807	15.99	3.40	7.18	119
0922	13.09	17.7	.823	15.90	3.17	7.17	129
0926	13.16	17.2	.832	15.90	3.07	7.17	132

Comments: light brown, clear, no odor, no sheen

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-10

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 08/13/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: INDOORS

SAMPLING TIME: 0850 AMBIENT TEMP: 65°F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 10.99

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? X YES ____ NO

TOTAL GALLONS PURGED: ~0.75

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
0831	11.60	20.2	.848	16.15	6.04	7.27	-20
0835	11.72	19.9	.843	16.15	5.90	7.26	-14

Comments: well pumped dry after 0835 reading

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-11

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 09/13/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: INDOORS

SAMPLING TIME: 1130 AMBIENT TEMP: 65°F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 8.63

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~1.0

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1100	9.89	31.8	.483	16.52	1.85	7.69	131
1104	10.71	27.1	.490	16.87	1.25	7.66	136
1108	11.59	3.4	.489	17.54	1.00	7.65	135
1112	11.62	3.2	.488	17.52	.98	7.65	135
1116	11.72	0.7	.489	17.22	.92	7.65	134

Comments: No odor, no sheen, light gray to light brown with some black rust particles recovered.

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-11DPROJECT: 08017-000138.00LOCATION: 201 WINCHESTER RD, LAKEWOOD, NYSAMPLING DATE: 09/13/2017 SAMPLED BY: KYLE YOUNGSAMPLING METHOD: PERISTALTIC PUMP WEATHER: SUNNYSAMPLING TIME: 1055 AMBIENT TEMP: 65°FWATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: XDEPTH TO WATER (FT): 9.24PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NOTOTAL GALLONS PURGED: ~1.5

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1021	9.74	94.4	.129	16.01	.12	10.54	38
1025	10.22	69.0	.128	15.97	0.0	10.54	20
1029	10.61	78.3	.127	16.11	0.0	10.53	10
1033	10.86	68.1	.127	16.53	0.0	10.51	1
1037	10.94	79.4	.127	17.25	0.0	10.51	-4
1041	11.07	81.2	.127	17.33	0.0	10.50	-8
1045	11.19	87.3	.126	17.22	0.0	10.50	-10

Comments: light gray to light brown, no sheen, no odor, rust particles recovered, one cover bolt missing

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-13

PROJECT: 08017-000138.00

LOCATION: 201 WINCHESTER RD, LAKEWOOD, NY

SAMPLING DATE: 09/12/2017 SAMPLED BY: KYLE YOUNG

SAMPLING METHOD: PERISTALTIC PUMP WEATHER: CLOUDY

SAMPLING TIME: 1220 AMBIENT TEMP: 65 °F

WATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: X

DEPTH TO WATER (FT): 11.48

PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NO

TOTAL GALLONS PURGED: ~0.5

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1205	11.94	2.9	.399	21.15	1.06	6.73	-11
1209	12.08	0.0	.400	20.86	0.0	6.74	-14
1213	12.25	0.0	.401	20.12	0.0	6.77	-20
1217	12.32	0.0	.411	18.26	0.0	6.79	-22

Comments: Clear, No Odor, No Sheen

GROUNDWATER MONITORING WELL SAMPLING LOG

WELL NO. MW-14PROJECT: 08017-000138.00LOCATION: 201 WINCHESTER RD, LAKEWOOD, NYSAMPLING DATE: 09/12/2017 SAMPLED BY: KYLE YOUNGSAMPLING METHOD: PERISTALTIC PUMP WEATHER: SUNNYSAMPLING TIME: 1045 AMBIENT TEMP: 65°FWATER ELEVATION DATA:

METHOD OF MEASUREMENT: DEPTH SOUNDER: _____

WATER LEVEL GAUGE: XDEPTH TO WATER (FT): 12.57PURGE METHOD: PERISTALTIC PUMP

DEPTH OF PUMP BELOW TOP OF CASING (FT): _____

WAS WELL PUMPED DRY? _____ YES X NOTOTAL GALLONS PURGED: ~1.5

TIME	DEPTH TO WATER	TURBIDITY	CONDUCTIVITY	TEMP	DO	PH	ORP
1014	13.24	34.1	.587	15.36	0.63	6.95	-9
1018	13.62	1.2	.563	15.41	0.09	6.81	-26
1022	13.84	4.9	.557	15.54	0.20	6.80	-33
1026	13.97	3.0	.561	15.63	0.36	6.83	-37
1030	14.11	5.0	.580	15.75	0.37	6.91	-54
1034	14.14	1.1	.565	16.11	3.64	6.89	-54
1038	14.15	1.0	.580	16.36	3.69	6.89	-49
1042	14.15	0.0	.573	16.49	3.71	8.89	-46

Comments: clear, sulfur odor, no sheen



Appendix D

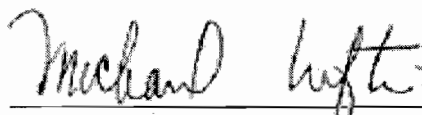
IAL ANALYTICAL LABORATORY REPORT

ANALYTICAL DATA REPORT

Bureau Veritas
110 Fieldcrest Ave.
4th Floor
Edison, NJ 08837

Project Name: **LEXINGTON MACHINING**
IAL Case Number: **E17-07838**

These data have been reviewed and accepted by:



Michael H. Leffin, Ph.D.
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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Sample Summary

IAL Case No.

E17-07838

Client Bureau Veritas

Project LEXINGTON MACHINING

Received On 9/14/2017@11:00

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
07838-001	MW-4	n/a	9/12/2017@09:30	Aqueous	2
07838-002	MW-7	n/a	9/12/2017@10:00	Aqueous	2
07838-003	FIELD BLANK -1	n/a	9/12/2017@10:38	Aqueous	2
07838-004	MW-14	n/a	9/12/2017@10:45	Aqueous	2
07838-005	MW-3	n/a	9/12/2017@11:30	Aqueous	2
07838-006	MW-13	n/a	9/12/2017@12:20	Aqueous	2
07838-007	MW-2	n/a	9/12/2017@12:55	Aqueous	2
07838-008	MW-2D	n/a	9/12/2017@13:20	Aqueous	2
07838-009	TRIP BLANK	n/a	9/12/2017	Aqueous	2
07838-010	MW-1	n/a	9/12/2017@15:20	Aqueous	2
07838-011	MW-5	n/a	9/12/2017@16:05	Aqueous	2
07838-012	MW-8	n/a	9/13/2017@08:20	Aqueous	2
07838-013	MW-10	n/a	9/13/2017@08:50	Aqueous	2
07838-014	MW-9	n/a	9/13/2017@09:35	Aqueous	2
07838-015	FIELD BLANK -2	n/a	9/13/2017@10:30	Aqueous	2
07838-016	MW-11D	n/a	9/13/2017@10:55	Aqueous	2
07838-017	MW-11	n/a	9/13/2017@11:30	Aqueous	2

INTEGRATED ANALYTICAL LABORATORIES, LLC.

DATA QUALIFIERS AND FLAGS

B	Indicates the analyte found in the associated method blank and in the sample due to potential lab contamination.
C	Indicates analyte is a common laboratory contaminant.
D	Indicates analyte was reported from diluted analysis.
E	Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument
J	Indicates an estimated value either when the concentration in the sample is less than the RL or for qualification of TICs
M	Indicates matrix interference
N	Presumptive evidence of a compound from the use of GC/MS library search.
X	Indicates samples analyzed for total and dissolved metals differ at ≤20% RPD.
Y	Indicates DO depletion in the BOD blank is >0.20ppm
Z	Indicates internal standard failure. Sample results are either biased high or biased low.
\$	Value outside NJDEP DKQP Limits
*	Result outside of QC limits

PROJECT NOTES

- All results for soils, solids, and sludges are reported on a dry-weight basis except where noted
- All test results and QC are compliant with TNI or other applicable state agency requirements/guidance unless otherwise notated in the case narrative
- The case narrative for this SDG should be consulted to determine any non-conformances
- Any samples with 15-minute or "analyze immediately" holding times (e.g. pH, Dissolved Oxygen, Sulfite, etc.) which are analyzed in the laboratory are considered out of holding time
- IAL is a NELAP/TNI certified laboratory (TNI ID# TNI01284). IAL retains certification in Connecticut (PH-0699), New Jersey (14751), New York (11402), and Pennsylvania (68-00773).
- Certification is not required to perform analyses in the following states: AL, CO, DE, GA, HI, ID, IN, KY, MD, MI, MS, MO, MT, NE, NM, SD and TN. IAL can perform all analyses, except Drinking Water, within its scope of capabilities in these states.

ACRONYMS AND ABBREVIATIONS

CFU	Colony Forming Unit	ND	Indicates analyte was analyzed for but not detected at MDL or RL (only if MDL is not used)
CCB	Continuing Calibration Blank	NTU	Nephelometric Turbidity Units
CCV	Continuing Calibration Verification	ppb	Parts per billion. Reported as µg/L or µg/kg
DF	Dilution Factor	ppm	Parts per million. Reported as mg/L, µg/mL or mg/kg
DL	Attached as a suffix to a diluted sample	QC	Quality Control
DUP	Duplicate	% Rec	Percent Recovery
ICB	Initial Calibration Blank	RL	Reporting Limit. The RL is typically determined by the concentration of the lowest standard in the calibration curve
ICC	Initial Calibration Curve	RPD	Relative Percent Difference
ICV	Initial Calibration Verification	RSD	Relative Standard Deviation
kg	kilogram	RT	Retention Time
L	Liter	SU	Standard Units
LCS	Laboratory Control Sample	TIC	Tentatively Identified Compound AKA Library Search Compounds
LCSD	Laboratory Control Sample Duplicate	TNI	The NELAC (National Environmental Laboratory Accreditation Council) Institute
MDL	Method Detection Limit as determined according to 40 CFR Part 136 Appendix B	TNTC	Too numerous to count
MF	Membrane Filter	*	When attached to a compound name, indicates this analyte was analyzed by Method SW-846 8270 SIM
mg	milligram (1000mg = 1g)	^	When attached to a compound name, indicates this analyte was analyzed by Method SW-846 8011 or EPA 504.1
µg	microgram (1000µg = 1mg)	<	Less than; In conjunction with a numerical value, indicates a concentration less than the RL or MDL
ml	milliliter (1000ml = 1L)		
µl	microliter (1000µl = 1ml)		
µmhos	Conductivity units - resistance expressed in ohms		
MPN	Most Probable Number		
MS	Matrix Spike		
MSD	Matrix Spike Duplicate		
NA	Not applicable		
NC	Not calculated		

SAMPLE DELIVERY GROUP CASE NARRATIVE
(Conformance / Non-Conformance Summary)

INTEGRATED ANALYTICAL LABORATORIES, LLC
SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E17-07838

Integrated Analytical Laboratories, LLC. received seventeen (17) samples** from Bureau Veritas (IAL SDG# **E17-07838**, Project: LEXINGTON MACHINING) on September 14, 2017 for the analysis of :

(17) TCL VO + 15

**Number of samples listed above may be greater than what is listed on the chain of custody. Any samples that require in-house filtration or splitting will be counted as separate samples.

Samples were received in good condition with documentation in order.

Cooler temperature was acceptable at $4 \pm 2^{\circ}\text{C}$

Volatiles By 8260C	Batch: 170918,170918A	Matrix: Aqueous
---------------------------	------------------------------	------------------------

- QC**
- Calibration curve met QC criteria.
 - Internal standards recovery met QC criteria.
 - Surrogate percent recovery met QC criteria.
 - Method blank met QC criteria.
 - LCS percent recovery met QC criteria.
 - MS/MSD RPD met QC criteria.
 - MS/MSD percent recovery met QC criteria.
- E17-07838**
- All samples were analyzed within holding time.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E17-07838-001	1	NA
E17-07838-002	1	NA
E17-07838-003	1	NA
E17-07838-004	1	NA
E17-07838-005	1	NA
E17-07838-006	1;5	Target compound(s).
E17-07838-007	1;10	Target compound(s).
E17-07838-008	1	NA
E17-07838-009	1	NA
E17-07838-010	1	NA
E17-07838-011	1	NA
E17-07838-012	1	NA
E17-07838-013	1	NA
E17-07838-014	1;2	Target compound(s).
E17-07838-015	1	NA
E17-07838-016	1	NA
E17-07838-017	1	NA

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:



Reviewed by

10/2/2017

Date

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Integrated Analytical Laboratories

Client: Bureau Veritas

Project Location: LEXINGTON MACHINING

IAL Project #: E17-07838

IAL Sample ID(s): E17-07838-001 ~ -017

Sampling Date(s): 9/12/2017

List of DKQP Method Used:

TCL VO by 8260C

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information is provided in the case narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

		YES	NO	N/A
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	X		
1A	Were the method specified handling, preservation, and holding time requirements met?	X		
1B	EPH Method: Was the EPH method conducted without significant modifications? (see Section 11.3 of respective DKQ methods)			X
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	X		
3	Were samples received at an appropriate temperature (4±2° C)?	X		
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	X		
5A	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	X		
5B	Were these reporting limits met?	X		
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	X		
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?		X	

RESULTS SUMMARY REPORT

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: Bureau Veritas

Project: LEXINGTON MACHINING

Lab Case No.: E17-07838

Lab ID:	07838-001	07838-002	07838-003	07838-004
Client ID:	MW-4	MW-7	FIELD BLANK -1	MW-14
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Sampled Date	9/12/17	9/12/17	9/12/17	9/12/17
PARAMETER(Units)	Conc Q MDL	Conc Q MDL	Conc Q MDL	Conc Q MDL
Volatiles (Units)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Vinyl chloride	ND 0.591	9.32 0.591	ND 0.591	3.91 0.591
Chloroethane	ND 0.495	3.58 0.495	ND 0.495	4.33 0.495
1,1-Dichloroethene	ND 0.493	5.18 0.493	ND 0.493	18.7 0.493
1,1-Dichloroethane	ND 0.493	9.15 0.493	ND 0.493	19.0 0.493
1,2-Dichlorobenzene	ND 0.364	0.482 J 0.364	ND 0.364	0.845 0.364
TOTAL VO's:	ND	27.7 J	ND	46.8
TOTAL TIC's:	ND	ND	ND	ND
TOTAL VO's & TIC's:	ND	27.7 J	ND	46.8
Lab ID:	07838-005	07838-006	07838-007	07838-008
Client ID:	MW-3	MW-13	MW-2	MW-2D
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Sampled Date	9/12/17	9/12/17	9/12/17	9/12/17
PARAMETER(Units)	Conc Q MDL	Conc Q MDL	Conc Q MDL	Conc Q MDL
Volatiles (Units)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Vinyl chloride	1.23 0.591	ND 0.591	ND 0.591	ND 0.591
Chloroethane	41.8 0.495	665 D 2.48	900 D 4.95	4.45 0.495
1,1-Dichloroethene	70.4 0.493	11.7 0.493	7.65 0.493	ND 0.493
1,1-Dichloroethane	31.2 0.493	13.2 0.493	28.1 0.493	0.499 J 0.493
cis-1,2-Dichloroethene	0.463 J 0.451	0.960 0.451	1.08 0.451	ND 0.451
1,1,1-Trichloroethane	0.500 0.462	ND 0.462	ND 0.462	ND 0.462
1,2-Dichloroethane (EDC)	0.962 0.458	0.955 0.458	0.851 0.458	ND 0.458
Chlorobenzene	0.410 J 0.376	ND 0.376	ND 0.376	ND 0.376
1,3-Dichlorobenzene	0.352 J 0.351	ND 0.351	ND 0.351	ND 0.351
1,4-Dichlorobenzene	0.410 J 0.341	ND 0.341	ND 0.341	ND 0.341
1,2-Dichlorobenzene	1.91 0.364	ND 0.364	ND 0.364	ND 0.364
TOTAL VO's:	150 J	692 D	938 D	4.95 J
TOTAL TIC's:	ND	6.90 JN	8.00 JN	ND
TOTAL VO's & TIC's:	150 J	699 DJN	946 DJN	4.95 J

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

D = The compound was reported from the Diluted analysis

N = Presumptive evidence of a compound from the use of GC/MS library search.

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: Bureau Veritas

Project: LEXINGTON MACHINING

Lab Case No.: E17-07838

Lab ID:	07838-009	07838-010	07838-011	07838-012
Client ID:	TRIP BLANK	MW-1	MW-5	MW-8
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Sampled Date	9/12/17	9/12/17	9/12/17	9/13/17
PARAMETER(Units)	Conc Q MDL	Conc Q MDL	Conc Q MDL	Conc Q MDL
Volatiles (Units)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethene	ND 0.493	11.4 0.493	ND 0.493	16.1 0.493
1,1-Dichloroethane	ND 0.493	6.71 0.493	ND 0.493	6.43 0.493
1,1,1-Trichloroethane	ND 0.462	0.761 0.462	ND 0.462	ND 0.462
Tetrachloroethene	ND 0.451	ND 0.451	1.18 0.451	ND 0.451
TOTAL VO's:	ND	18.9	1.18	22.5
TOTAL TIC's:	ND	ND	ND	ND
TOTAL VO's & TIC's:	ND	18.9	1.18	22.5
Lab ID:	07838-013	07838-014	07838-015	07838-016
Client ID:	MW-10	MW-9	FIELD BLANK -2	MW-11D
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Sampled Date	9/13/17	9/13/17	9/13/17	9/13/17
PARAMETER(Units)	Conc Q MDL	Conc Q MDL	Conc Q MDL	Conc Q MDL
Volatiles (Units)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethene	2.32 0.493	181 D 0.986	ND 0.493	1.51 0.493
1,1-Dichloroethane	38.1 0.493	196 0.493	ND 0.493	1.00 0.493
1,1,1-Trichloroethane	ND 0.462	11.2 0.462	ND 0.462	ND 0.462
1,2-Dichloroethane (EDC)	ND 0.458	3.97 0.458	ND 0.458	ND 0.458
1,1,2-Trichloroethane	1.21 0.473	ND 0.473	ND 0.473	ND 0.473
TOTAL VO's:	41.6	392 D	ND	2.51
TOTAL TIC's:	ND	ND	ND	ND
TOTAL VO's & TIC's:	41.6	392 D	ND	2.51
Lab ID:	07838-017			
Client ID:	MW-11			
Matrix:	Aqueous			
Sampled Date	9/13/17			
PARAMETER(Units)	Conc Q MDL			
Volatiles (Units)	(ug/L)			
1,1-Dichloroethene	1.35 0.493			
1,1-Dichloroethane	1.24 0.493			
1,1,1-Trichloroethane	1.40 0.462			
TOTAL VO's:	3.99			
TOTAL TIC's:	ND			
TOTAL VO's & TIC's:	3.99			

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

ANALYTICAL RESULTS

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-001
 Client ID: MW-4
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1530.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	ND		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-001
 Client ID: MW-4
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1530.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 0

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-001
Client ID: MW-4
Date Received: 09/14/2017
Date Analyzed: 09/18/2017
Date File: E1530.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
-------	----------	----------------------------	---	-------------------

No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-002
 Client ID: MW-7
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1531.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	9.32		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	3.58		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	5.18		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	9.15		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-002
 Client ID: MW-7
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1531.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	0.482	J	0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 27.7 J

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-002
Client ID: MW-7
Date Received: 09/14/2017
Date Analyzed: 09/18/2017
Date File: E1531.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous- μ g/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-003
 Client ID: FIELD_BLANK_
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1532.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	ND		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-003
 Client ID: FIELD_BLANK_
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1532.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 0

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-003
Client ID: FIELD_BLANK_
Date Received: 09/14/2017
Date Analyzed: 09/18/2017
Date File: E1532.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-004
 Client ID: MW-14
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1533.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	3.91		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	4.33		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	18.7		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	19.0		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-004
 Client ID: MW-14
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1533.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	0.845		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 46.8

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-004
Client ID: MW-14
Date Received: 09/14/2017
Date Analyzed: 09/18/2017
Date File: E1533.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-005
 Client ID: MW-3
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1534.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	1.23		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	41.8		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	70.4		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	31.2		0.500	0.493
cis-1,2-Dichloroethene	0.463	J	0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	0.500		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	0.962		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-005
 Client ID: MW-3
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1534.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	0.410	J	0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	0.352	J	0.500	0.351
1,4-Dichlorobenzene	0.410	J	0.500	0.341
1,2-Dichlorobenzene	1.91		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331
Total Target Compounds (52):	150	J		

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-005
Client ID: MW-3
Date Received: 09/14/2017
Date Analyzed: 09/18/2017
Date File: E1534.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous- μ g/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-006
 Client ID: MW-13
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1535.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	581	E	0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	11.7		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	13.2		0.500	0.493
cis-1,2-Dichloroethene	0.960		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	0.955		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-006
 Client ID: MW-13
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1535.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 608 E

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS Tentatively Identified Compounds

Lab ID: E17-07838-006
Client ID: MW-13
Date Received: 09/14/2017
Date Analyzed: 09/18/2017
Date File: E1535.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
000074-96-4	Ethane, bromo-	6.90	JN	3.95

Total TICs = 6.90 JN

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-006DL
 Client ID: MW-13
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1542.D

GC/MS Column: DB-624
 Sample wt/vol: 1mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 5
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		5.00	3.31
Chloromethane	ND		2.50	2.32
Vinyl chloride	ND		5.00	2.96
Bromomethane	ND		5.00	2.72
Chloroethane	665	D	2.50	2.48
Trichlorofluoromethane	ND		2.50	2.17
1,1-Dichloroethene	13.7	D	2.50	2.47
Acetone	ND		10.0	6.65
Carbon disulfide	ND		2.50	2.32
Methylene chloride	ND		5.00	4.95
trans-1,2-Dichloroethene	ND		2.50	2.27
Methyl tert-butyl ether (MTBE)	ND		2.50	2.40
1,1-Dichloroethane	15.2	D	2.50	2.47
cis-1,2-Dichloroethene	ND		2.50	2.26
2-Butanone (MEK)	ND		10.0	8.31
Bromochloromethane	ND		5.00	2.98
Chloroform	ND		2.50	2.35
1,1,1-Trichloroethane	ND		2.50	2.31
Carbon tetrachloride	ND		2.50	2.25
1,2-Dichloroethane (EDC)	ND		2.50	2.29
Benzene	ND		2.50	2.32
Trichloroethene	ND		2.50	2.47
1,2-Dichloropropane	ND		2.50	2.24
1,4-Dioxane	ND		500	492
Bromodichloromethane	ND		2.50	1.77
cis-1,3-Dichloropropene	ND		2.50	1.66
4-Methyl-2-pentanone (MIBK)	ND		10.0	3.50

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-006DL
 Client ID: MW-13
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1542.D

GC/MS Column: DB-624
 Sample wt/vol: 1mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 5
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		2.50	1.90
trans-1,3-Dichloropropene	ND		2.50	1.61
1,1,2-Trichloroethane	ND		5.00	2.37
Tetrachloroethene	ND		2.50	2.26
2-Hexanone	ND		10.0	3.81
Dibromochloromethane	ND		5.00	2.21
1,2-Dibromoethane (EDB)	ND		2.50	2.01
Chlorobenzene	ND		2.50	1.88
Ethylbenzene	ND		2.50	1.72
Total Xylenes	ND		5.00	4.62
Styrene	ND		2.50	1.45
Bromoform	ND		2.50	2.23
Isopropylbenzene	ND		2.50	1.62
1,1,2,2-Tetrachloroethane	ND		2.50	2.29
1,3-Dichlorobenzene	ND		2.50	1.76
1,4-Dichlorobenzene	ND		2.50	1.71
1,2-Dichlorobenzene	ND		2.50	1.82
1,2-Dibromo-3-chloropropane	ND		5.00	2.67
1,2,4-Trichlorobenzene	ND		2.50	1.52
1,2,3-Trichlorobenzene	ND		2.50	1.70
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.00	2.82
Methyl acetate	ND		2.50	2.43
Cyclohexane	ND		5.00	2.06
Methylcyclohexane	ND		5.00	2.06
1,3-Dichloropropene (cis- and trans-)	ND		2.50	1.66

Total Target Compounds (52): 694 D

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-007
 Client ID: MW-2
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1536.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	978	E	0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	7.65		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	28.1		0.500	0.493
cis-1,2-Dichloroethene	1.08		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	0.851		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-007
 Client ID: MW-2
 Date Received: 09/14/2017
 Date Analyzed: 09/18/2017
 Data file: E1536.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 1020 E

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS Tentatively Identified Compounds

Lab ID: E17-07838-007
Client ID: MW-2
Date Received: 09/14/2017
Date Analyzed: 09/18/2017
Date File: E1536.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
000074-96-4	Ethane, bromo-	8.00	JN	3.95

Total TICs = 8.00 JN

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-007DL
 Client ID: MW-2
 Date Received: 09/13/2017
 Date Analyzed: 09/19/2017
 Data file: E1572.D

GC/MS Column: DB-624
 Sample wt/vol: 0.5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 10
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		10.0	6.62
Chloromethane	ND		5.00	4.63
Vinyl chloride	ND		10.0	5.91
Bromomethane	ND		10.0	5.44
Chloroethane	900	D	5.00	4.95
Trichlorofluoromethane	ND		5.00	4.33
1,1-Dichloroethene	10.3	D	5.00	4.93
Acetone	ND		20.0	13.3
Carbon disulfide	ND		5.00	4.64
Methylene chloride	ND		10.0	9.90
trans-1,2-Dichloroethene	ND		5.00	4.54
Methyl tert-butyl ether (MTBE)	ND		5.00	4.79
1,1-Dichloroethane	31.8	D	5.00	4.93
cis-1,2-Dichloroethene	ND		5.00	4.51
2-Butanone (MEK)	ND		20.0	16.6
Bromochloromethane	ND		10.0	5.96
Chloroform	ND		5.00	4.69
1,1,1-Trichloroethane	ND		5.00	4.62
Carbon tetrachloride	ND		5.00	4.49
1,2-Dichloroethane (EDC)	ND		5.00	4.58
Benzene	ND		5.00	4.64
Trichloroethene	ND		5.00	4.93
1,2-Dichloropropane	ND		5.00	4.47
1,4-Dioxane	ND		1000	984
Bromodichloromethane	ND		5.00	3.53
cis-1,3-Dichloropropene	ND		5.00	3.31
4-Methyl-2-pentanone (MIBK)	ND		20.0	6.99

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-007DL
 Client ID: MW-2
 Date Received: 09/13/2017
 Date Analyzed: 09/19/2017
 Data file: E1572.D

GC/MS Column: DB-624
 Sample wt/vol: 0.5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 10
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		5.00	3.79
trans-1,3-Dichloropropene	ND		5.00	3.21
1,1,2-Trichloroethane	ND		10.0	4.73
Tetrachloroethene	ND		5.00	4.51
2-Hexanone	ND		20.0	7.61
Dibromochloromethane	ND		10.0	4.42
1,2-Dibromoethane (EDB)	ND		5.00	4.02
Chlorobenzene	ND		5.00	3.76
Ethylbenzene	ND		5.00	3.44
Total Xylenes	ND		10.0	9.23
Styrene	ND		5.00	2.90
Bromoform	ND		5.00	4.45
Isopropylbenzene	ND		5.00	3.23
1,1,2,2-Tetrachloroethane	ND		5.00	4.58
1,3-Dichlorobenzene	ND		5.00	3.51
1,4-Dichlorobenzene	ND		5.00	3.41
1,2-Dichlorobenzene	ND		5.00	3.64
1,2-Dibromo-3-chloropropane	ND		10.0	5.33
1,2,4-Trichlorobenzene	ND		5.00	3.04
1,2,3-Trichlorobenzene	ND		5.00	3.39
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	5.63
Methyl acetate	ND		5.00	4.85
Cyclohexane	ND		10.0	4.11
Methylcyclohexane	ND		10.0	4.11
1,3-Dichloropropene (cis- and trans-)	ND		5.00	3.31

Total Target Compounds (52): 942 D

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-008
 Client ID: MW-2D
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1559.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	4.45		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	0.499	J	0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-008
 Client ID: MW-2D
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1559.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 4.95 J

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-008
Client ID: MW-2D
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Date File: E1559.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-009
 Client ID: TRIP_BLANK
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1560.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	ND		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-009
 Client ID: TRIP_BLANK
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1560.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 0

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS Tentatively Identified Compounds

Lab ID: E17-07838-009
Client ID: TRIP_BLANK
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Date File: E1560.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-010
 Client ID: MW-1
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1561.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	11.4		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	6.71		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	0.761		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-010
 Client ID: MW-1
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1561.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 18.9

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS Tentatively Identified Compounds

Lab ID: E17-07838-010
Client ID: MW-1
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Date File: E1561.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-011
 Client ID: MW-5
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1562.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	ND		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-011
 Client ID: MW-5
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1562.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	1.18		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 1.18

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-011
Client ID: MW-5
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Date File: E1562.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-012
 Client ID: MW-8
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1563.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	16.1		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	6.43		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-012
 Client ID: MW-8
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1563.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 22.5

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS Tentatively Identified Compounds

Lab ID: E17-07838-012
Client ID: MW-8
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Date File: E1563.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-013
 Client ID: MW-10
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1564.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	2.32		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	38.1		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-013
 Client ID: MW-10
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1564.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	1.21		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 41.6

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-013
Client ID: MW-10
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Date File: E1564.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-014
 Client ID: MW-9
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1565.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	228	E	0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	196		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	11.2		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	3.97		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-014
 Client ID: MW-9
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1565.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 439 E

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-014
Client ID: MW-9
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Date File: E1565.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-014DL
 Client ID: MW-9
 Date Received: 09/13/2017
 Date Analyzed: 09/19/2017
 Data file: E1571.D

GC/MS Column: DB-624
 Sample wt/vol: 2.5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 2
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		2.00	1.32
Chloromethane	ND		1.00	0.926
Vinyl chloride	ND		2.00	1.18
Bromomethane	ND		2.00	1.09
Chloroethane	ND		1.00	0.990
Trichlorofluoromethane	ND		1.00	0.866
1,1-Dichloroethene	181	D	1.00	0.986
Acetone	ND		4.00	2.66
Carbon disulfide	ND		1.00	0.928
Methylene chloride	ND		2.00	1.98
trans-1,2-Dichloroethene	ND		1.00	0.908
Methyl tert-butyl ether (MTBE)	ND		1.00	0.958
1,1-Dichloroethane	168	D	1.00	0.986
cis-1,2-Dichloroethene	ND		1.00	0.902
2-Butanone (MEK)	ND		4.00	3.32
Bromochloromethane	ND		2.00	1.19
Chloroform	ND		1.00	0.938
1,1,1-Trichloroethane	9.24	D	1.00	0.924
Carbon tetrachloride	ND		1.00	0.898
1,2-Dichloroethane (EDC)	4.37	D	1.00	0.916
Benzene	ND		1.00	0.928
Trichloroethene	ND		1.00	0.986
1,2-Dichloropropane	ND		1.00	0.894
1,4-Dioxane	ND		200	197
Bromodichloromethane	ND		1.00	0.706
cis-1,3-Dichloropropene	ND		1.00	0.662
4-Methyl-2-pentanone (MIBK)	ND		4.00	1.40

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-014DL

Client ID: MW-9

Date Received: 09/13/2017

Date Analyzed: 09/19/2017

Data file: E1571.D

GC/MS Column: DB-624

Sample wt/vol: 2.5mL

Matrix-Units: Aqueous-µg/L

Dilution Factor: 2

% Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		1.00	0.758
trans-1,3-Dichloropropene	ND		1.00	0.642
1,1,2-Trichloroethane	ND		2.00	0.946
Tetrachloroethene	ND		1.00	0.902
2-Hexanone	ND		4.00	1.52
Dibromochloromethane	ND		2.00	0.884
1,2-Dibromoethane (EDB)	ND		1.00	0.804
Chlorobenzene	ND		1.00	0.752
Ethylbenzene	ND		1.00	0.688
Total Xylenes	ND		2.00	1.85
Styrene	ND		1.00	0.580
Bromoform	ND		1.00	0.890
Isopropylbenzene	ND		1.00	0.646
1,1,2,2-Tetrachloroethane	ND		1.00	0.916
1,3-Dichlorobenzene	ND		1.00	0.702
1,4-Dichlorobenzene	ND		1.00	0.682
1,2-Dichlorobenzene	ND		1.00	0.728
1,2-Dibromo-3-chloropropane	ND		2.00	1.07
1,2,4-Trichlorobenzene	ND		1.00	0.608
1,2,3-Trichlorobenzene	ND		1.00	0.678
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.00	1.13
Methyl acetate	ND		1.00	0.970
Cyclohexane	ND		2.00	0.822
Methylcyclohexane	ND		2.00	0.822
1,3-Dichloropropene (cis- and trans-)	ND		1.00	0.662

Total Target Compounds (52): 363 D

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-015
 Client ID: FIELD_BLANK_
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1566.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	ND		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-015
 Client ID: FIELD_BLANK_
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1566.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 0

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS Tentatively Identified Compounds

Lab ID: E17-07838-015
Client ID: FIELD_BLANK_
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Data file: E1566.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-016
 Client ID: MW-11D
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1567.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	1.51		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	1.00		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-016
 Client ID: MW-11D
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1567.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 2.51

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-016
Client ID: MW-11D
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Data file: E1567.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-017
 Client ID: MW-11
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1568.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	1.35		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	1.24		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	1.40		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: E17-07838-017
 Client ID: MW-11
 Date Received: 09/14/2017
 Date Analyzed: 09/19/2017
 Data file: E1568.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 3.99

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: E17-07838-017
Client ID: MW-11
Date Received: 09/14/2017
Date Analyzed: 09/19/2017
Data file: E1568.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous- $\mu\text{g/L}$
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

VOLATILE ORGANICS

VOLATILE ORGANICS QC SUMMARY

VOLATILE SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 09/18/2017

Lab Sample ID	Matrix	File ID	SMC1 #	SMC2 #	SMC3 #
BLKA170918	AQUEOUS	E1529.D	101	99	94
E17-07838-001	AQUEOUS	E1530.D	96	97	93
E17-07838-002	AQUEOUS	E1531.D	94	98	95
E17-07838-003	AQUEOUS	E1532.D	98	98	96
E17-07838-004	AQUEOUS	E1533.D	98	98	93
E17-07838-005	AQUEOUS	E1534.D	96	97	93
E17-07838-006	AQUEOUS	E1535.D	97	96	95
E17-07838-007	AQUEOUS	E1536.D	99	96	96
E17-07836-002	AQUEOUS	E1537.D	96	98	92
E17-07836-003	AQUEOUS	E1538.D	95	98	95
LCSA170918	AQUEOUS	E1539.D	92	102	101
E17-07782-005MS	AQUEOUS	E1540.D	87	101	99
E17-07782-005MSD	AQUEOUS	E1541.D	83	101	97
E17-07838-006DL	AQUEOUS	E1542.D	84	99	92
E17-07782-005	AQUEOUS	E1543.D	85	95	91
E17-07782-006	AQUEOUS	E1544.D	88	96	95
E17-07782-007	AQUEOUS	E1545.D	90	98	93
E17-07782-008	AQUEOUS	E1546.D	92	97	92
E17-07782-009	AQUEOUS	E1547.D	89	98	95
E17-07782-010	AQUEOUS	E1548.D	89	96	93

	Concentration	Leachate		
		DKQPs	Aqueous/Meoh	Soil
SMC1 = 1,2-Dichloroethane-d4	50 ppb	70-130	59-138	43-133
SMC2 = Toluene-d8	50 ppb	70-130	40-133	39-137
SMC3 = Bromofluorobenzene	50 ppb	70-130	42-152	45-145

Column used to flag recovery values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

D Surrogate diluted out

M Matrix interference

VOLATILE SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 09/19/2017

Lab Sample ID	Matrix	File ID	SMC1 #	SMC2 #	SMC3 #
BLKA170918a	AQUEOUS	E1553.D	83	98	91
E17-07689-001	AQUEOUS	E1554.D	84	99	97
LCSA170918a	AQUEOUS	E1555.D	82	101	96
E17-07838-008MS	AQUEOUS	E1556.D	79	101	97
E17-07838-008MSD	AQUEOUS	E1557.D	78	100	96
E17-07838-008	AQUEOUS	E1559.D	82	93	95
E17-07838-009	AQUEOUS	E1560.D	81	96	92
E17-07838-010	AQUEOUS	E1561.D	82	98	90
E17-07838-011	AQUEOUS	E1562.D	102	97	94
E17-07838-012	AQUEOUS	E1563.D	87	96	92
E17-07838-013	AQUEOUS	E1564.D	89	97	93
E17-07838-014	AQUEOUS	E1565.D	89	96	94
E17-07838-015	AQUEOUS	E1566.D	91	96	93
E17-07838-016	AQUEOUS	E1567.D	88	97	92
E17-07838-017	AQUEOUS	E1568.D	87	97	91
E17-07794-001	AQUEOUS	E1569.D	86	98	95
E17-07736-001	AQUEOUS	E1570.D	80	99	94
E17-07838-014DL	AQUEOUS	E1571.D	99	95	94
E17-07838-007DL	AQUEOUS	E1572.D	99	96	93

	Concentration	Leachate DKQPs Aqueous/Meoh	Soil
SMC1 = 1,2-Dichloroethane-d4	50 ppb	70-130	43-133
SMC2 = Toluene-d8	50 ppb	70-130	39-137
SMC3 = Bromofluorobenzene	50 ppb	70-130	42-152

Column used to flag recovery values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

D Surrogate diluted out

M Matrix interference

INTEGRATED ANALYTICAL LABORATORIES

8260

LCS ACCURACY REPORT

Lab ID: LCSA170918
Date Received: NA
Date Analyzed: 09/18/2017
LCS Data file: E1539.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Conc. Add	Conc. LCS	%Rec. LCS	#	Limits
Dichlorodifluoromethane	50.0	46.3	93		52-137
Chloromethane	50.0	42.2	84		39-129
Vinyl chloride	50.0	51.5	103		48-133
Bromomethane	50.0	56.9	114		71-143
Chloroethane	50.0	48.1	96		63-134
Trichlorofluoromethane	50.0	60.9	122		56-133
1,1-Dichloroethene	50.0	49.7	99		69-115
Acetone	100	115.6	116		16-211
Carbon disulfide	50.0	55.0	110		68-122
Vinyl acetate	50.0	39.8	80		59-114
Methylene chloride	50.0	53.0	106		72-133
Acrylonitrile	150.0	112.8	75		63-150
tert-Butyl alcohol (TBA)	100.0	87.2	87		58-135
trans-1,2-Dichloroethene	50.0	50.8	102		68-135
Methyl tert-butyl ether (MTBE)	50.0	45.1	90		41-142
1,1-Dichloroethane	50.0	51.8	104		73-128
Diisopropyl ether (DIPE)	50.0	55.9	112		57-137
cis-1,2-Dichloroethene	50.0	52.4	105		77-134
2,2-Dichloropropane	50.0	63.7	127		53-138
2-Butanone (MEK)	100	72.6	73		16-158
Bromochloromethane	50.0	45.7	91		76-134
Chloroform	50.0	51.6	103		78-133
1,1,1-Trichloroethane	50.0	57.8	116		70-137
Carbon tetrachloride	50.0	55.8	112		71-141
1,1-Dichloropropene	50.0	50.8	102		66-139
1,2-Dichloroethane (EDC)	50.0	46.6	93		75-132
Benzene	50.0	49.9	100		72-130
Trichloroethene	50.0	48.7	97		71-138
1,2-Dichloropropane	50.0	49.7	99		78-131
Dibromomethane	50.0	43.7	87		76-137
1,4-Dioxane	1500	1527	102		48-153
Bromodichloromethane	50.0	50.5	101		79-140
cis-1,3-Dichloropropene	50.0	52.6	105		71-140
4-Methyl-2-pentanone (MIBK)	100	80.3	80		13-164
Toluene	50.0	50.0	100		69-140
trans-1,3-Dichloropropene	50.0	45.6	91		63-150
1,1,2-Trichloroethane	50.0	43.0	86		76-140
Tetrachloroethene	50.0	51.6	103		63-141
1,3-Dichloropropane	50.0	44.1	88		68-144

INTEGRATED ANALYTICAL LABORATORIES

LCS ACCURACY REPORT

Lab ID: LCSA170918
 Date Received: NA
 Date Analyzed: 09/18/2017
 LCS Data file: E1539.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1

Compound	Conc. Add	Conc. LCS	%Rec. LCS	#	Limits
2-Hexanone	100	76.5	77		13-163
Dibromochloromethane	50.0	44.1	88		70-148
1,2-Dibromoethane (EDB)	50.0	44.6	89		72-150
Chlorobenzene	50.0	49.4	99		75-125
1,1,1,2-Tetrachloroethane	50.0	51.1	102		80-121
Ethylbenzene	50.0	51.3	103		69-130
m,p-Xylene	100.0	100.8	101		62-128
o-Xylene	50.0	54.3	109		58-129
Styrene	50.0	53.6	107		67-130
Bromoform	50.0	41.8	84		79-134
Isopropylbenzene	50.0	54.8	110		68-127
1,1,2,2-Tetrachloroethane	50.0	38.5	77		71-120
Bromobenzene	50.0	50.0	100		73-136
1,2,3-Trichloropropane	50.0	38.7	77		72-123
n-Propylbenzene	50.0	52.1	104		67-133
2-Chlorotoluene	50.0	50.8	102		69-129
1,3,5-Trimethylbenzene	50.0	53.6	107		68-127
4-Chlorotoluene	50.0	51.0	102		72-129
tert-Butylbenzene	50.0	56.6	113		68-130
1,2,4-Trimethylbenzene	50.0	51.2	102		69-128
sec-Butylbenzene	50.0	55.7	111		62-130
1,3-Dichlorobenzene	50.0	51.4	103		60-142
4-Isopropyltoluene	50.0	56.3	113		62-131
1,4-Dichlorobenzene	50.0	50.5	101		63-134
n-Butylbenzene	50.0	56.4	113		54-130
1,2-Dichlorobenzene	50.0	51.8	104		63-134
1,2-Dibromo-3-chloropropane	50.0	35.2	70		51-138
1,2,4-Trichlorobenzene	50.0	52.1	104		62-126
Hexachlorobutadiene	50.0	53.1	106		47-153
Naphthalene	50.0	43.6	87		53-134
1,2,3-Trichlorobenzene	50.0	48.4	97		58-144
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.4	111		49-126
Methyl acetate	50.0	53.4	107		40-147
Cyclohexane	50.0	51.2	102		59-120
Methylcyclohexane	50.0	52.0	104		62-131

Leachate
 Aqueous/Meoh Soil/Sediment

LCS Recovery Limits 70-130 70-130

Column used to flag recovery and RPD values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

INTEGRATED ANALYTICAL LABORATORIES

LCS ACCURACY REPORT

Lab ID: LCSA170918
 Date Received: NA
 Date Analyzed: 09/18/2017
 LCS Data file: E1539.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1

Compound	Conc. Add	LCS	MS Conc.	%Rec	#
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As per SW-846 8260C, up to 10% of the compounds may be out , but must be within 40-160%
 As per NJDEP DKQPs, only the following compounds may be in the 40-160% range:
 Acetone; Bromomethane; 2-Butanone (MEK); Carbon disulfide; Chloroethane; Chloromethane
 1,2-Dibromo-3-chloropropane; Dichlorodifluoromethane; 1,4-Dioxane; 2-Hexanone
 Naphthalene; 4-Methyl-2-pentanone (MIBK); Trichlorofluoromethane

LCS ACCURACY (%REC)	Leachate	
	Aqueous/Meoh	Soil/Sediment
	70-130	70-130

Column used to flag recovery values that did not meet criteria
 * Values outside of QC limits
 \$ Values outside of NJ DKQP limits
 NC Not calculable

INTEGRATED ANALYTICAL LABORATORIES

8260

LCS ACCURACY REPORT

Lab ID: LCSA170918a
Date Received: NA
Date Analyzed: 09/19/2017
LCS Data file: E1555.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Conc. Add	Conc. LCS	%Rec. LCS	#	Limits
Dichlorodifluoromethane	50.0	51.8	104		52-137
Chloromethane	50.0	45.5	91		39-129
Vinyl chloride	50.0	56.5	113		48-133
Bromomethane	50.0	58.5	117		71-143
Chloroethane	50.0	56.8	114		63-134
Trichlorofluoromethane	50.0	53.8	108		56-133
1,1-Dichloroethene	50.0	52.0	104		69-115
Acetone	100	107.1	107		16-211
Carbon disulfide	50.0	54.2	108		68-122
Vinyl acetate	50.0	44.9	90		59-114
Methylene chloride	50.0	53.2	106		72-133
Acrylonitrile	150.0	127.0	85		63-150
tert-Butyl alcohol (TBA)	100.0	81.8	82		58-135
trans-1,2-Dichloroethene	50.0	54.2	108		68-135
Methyl tert-butyl ether (MTBE)	50.0	38.8	78		41-142
1,1-Dichloroethane	50.0	56.2	112		73-128
Diisopropyl ether (DIPE)	50.0	53.4	107		57-137
cis-1,2-Dichloroethene	50.0	54.7	109		77-134
2,2-Dichloropropane	50.0	55.3	111		53-138
2-Butanone (MEK)	100	81.6	82		16-158
Bromochloromethane	50.0	42.7	85		76-134
Chloroform	50.0	54.2	108		78-133
1,1,1-Trichloroethane	50.0	63.8	128		70-137
Carbon tetrachloride	50.0	58.0	116		71-141
1,1-Dichloropropene	50.0	52.9	106		66-139
1,2-Dichloroethane (EDC)	50.0	41.4	83		75-132
Benzene	50.0	51.1	102		72-130
Trichloroethene	50.0	50.9	102		71-138
1,2-Dichloropropane	50.0	47.2	94		78-131
Dibromomethane	50.0	39.6	79		76-137
1,4-Dioxane	1500	1580	105		48-153
Bromodichloromethane	50.0	46.4	93		79-140
cis-1,3-Dichloropropene	50.0	44.8	90		71-140
4-Methyl-2-pentanone (MIBK)	100	87.8	88		13-164
Toluene	50.0	48.4	97		69-140
trans-1,3-Dichloropropene	50.0	37.5	75		63-150
1,1,2-Trichloroethane	50.0	38.0	76		76-140
Tetrachloroethene	50.0	49.0	98		63-141
1,3-Dichloropropane	50.0	35.7	71		68-144

INTEGRATED ANALYTICAL LABORATORIES

LCS ACCURACY REPORT

Lab ID: LCSA170918a
 Date Received: NA
 Date Analyzed: 09/19/2017
 LCS Data file: E1555.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1

Compound	Conc. Add	Conc. LCS	%Rec. LCS	#	Limits
2-Hexanone	100	86.3	86		13-163
Dibromochloromethane	50.0	36.9	74		70-148
1,2-Dibromoethane (EDB)	50.0	42.4	85		72-150
Chlorobenzene	50.0	47.3	95		75-125
1,1,1,2-Tetrachloroethane	50.0	50.4	101		80-121
Ethylbenzene	50.0	51.2	102		69-130
m,p-Xylene	100.0	100.8	101		62-128
o-Xylene	50.0	53.6	107		58-129
Styrene	50.0	50.7	101		67-130
Bromoform	50.0	47.6	95		79-134
Isopropylbenzene	50.0	55.0	110		68-127
1,1,2,2-Tetrachloroethane	50.0	56.3	113		71-120
Bromobenzene	50.0	44.7	89		73-136
1,2,3-Trichloropropane	50.0	44.4	89		72-123
n-Propylbenzene	50.0	51.3	103		67-133
2-Chlorotoluene	50.0	50.4	101		69-129
1,3,5-Trimethylbenzene	50.0	52.9	106		68-127
4-Chlorotoluene	50.0	49.9	100		72-129
tert-Butylbenzene	50.0	59.1	118		68-130
1,2,4-Trimethylbenzene	50.0	52.3	105		69-128
sec-Butylbenzene	50.0	54.5	109		62-130
1,3-Dichlorobenzene	50.0	47.8	96		60-142
4-Isopropyltoluene	50.0	55.8	112		62-131
1,4-Dichlorobenzene	50.0	47.0	94		63-134
n-Butylbenzene	50.0	54.5	109		54-130
1,2-Dichlorobenzene	50.0	45.4	91		63-134
1,2-Dibromo-3-chloropropane	50.0	40.0	80		51-138
1,2,4-Trichlorobenzene	50.0	45.4	91		62-126
Hexachlorobutadiene	50.0	52.3	105		47-153
1,2,3-Trichlorobenzene	50.0	37.2	74		58-144
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.5	113		49-126
Methyl acetate	50.0	41.2	82		40-147
Cyclohexane	50.0	53.7	107		59-120
Methylcyclohexane	50.0	50.9	102		62-131

Leachate
 Aqueous/Meoh Soil/Sediment

LCS Recovery Limits 70-130 70-130

Column used to flag recovery and RPD values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

INTEGRATED ANALYTICAL LABORATORIES

LCS ACCURACY REPORT

Lab ID: LCSA170918a Date Received: NA Date Analyzed: 09/19/2017 LCS Data file: E1555.D	GC/MS Column: DB-624 Sample wt/vol: 5mL Matrix-Units: Aqueous-µg/L % Moisture: 100 Dilution Factor: 1
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Compound	Conc. Add	LCS	MS Conc.	%Rec	#
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As per SW-846 8260C, up to 10% of the compounds may be out , but must be within 40-160%

As per NJDEP DKQPs, only the following compounds may be in the 40-160% range:

Acetone; Bromomethane; 2-Butanone (MEK); Carbon disulfide; Chloroethane; Chloromethane
 1,2-Dibromo-3-chloropropane; Dichlorodifluoromethane; 1,4-Dioxane; 2-Hexanone
 Naphthalene; 4-Methyl-2-pentanone (MIBK); Trichlorofluoromethane

	Leachate
	Aqueous/Meoh Soil/Sediment
LCS ACCURACY (%REC)	70-130 70-130

Column used to flag recovery values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

NC Not calculable

INTEGRATED ANALYTICAL LABORATORIES

8260

MS/MSD ACCURACY REPORT

Lab ID: E17-07782-005
 Client ID: SW-1-091117
 Date Received: NA
 Date Analyzed: 09/18/2017
 MS Data file: E1540.D
 MSD Data file: E1541.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1
 Dilution Factor: 1

Compound	Conc. Add	Sample	Conc. MS	%Rec. MS	#	Conc. MSD	%Rec. MSD	#	% RPD	#	Limits
Dichlorodifluoromethane	50.0	0.0	53.0	106		49.1	98	8			61-164/17
Chloromethane	50.0	0.0	44.1	88		43.5	87	1			29-149/20
Vinyl chloride	50.0	0.0	55.8	112		53.8	108	4			30-167/23
Bromomethane	50.0	0.0	53.1	106		56.6	113	6			53-158/18
Chloroethane	50.0	0.0	56.7	113		58.0	116	2			57-144/14
Trichlorofluoromethane	50.0	0.0	60.3	121		59.7	119	1			50-159/18
1,1-Dichloroethene	50.0	0.0	52.9	106		49.9	100	6			55-135/13
Acetone	100	0.0	87.9	88		93.9	94	7			37-160/21
Carbon disulfide	50.0	0.0	57.5	115		58.0	116	1			46-143/16
Vinyl acetate	50.0	0.0	54.1	108		56.6	113	5			24-151/21
Methylene chloride	50.0	0.0	53.9	108		51.2	102	5			63-136/12
Acrylonitrile	150	0.0	188	125		191	127	2			55-180/21
tert-Butyl alcohol (TBA)	100	0.0	97.8	98		94.9	95	3			42-143/17
trans-1,2-Dichloroethene	50.0	0.0	53.3	107		50.8	102	5			58-142/14
Methyl tert-butyl ether (MTBE)	50.0	0.0	41.5	83		39.1	78	6			35-132/16
1,1-Dichloroethane	50.0	0.0	55.0	110		52.7	105	4			63-140/13
Diisopropyl ether (DIPE)	50.0	0.0	54.5	109		52.3	105	4			41-160/20
cis-1,2-Dichloroethene	50.0	0.0	54.1	108		52.5	105	3			54-158/17
2,2-Dichloropropane	50.0	0.0	50.1	100		57.9	116	14			29-152/21
2-Butanone (MEK)	100	0.0	101.5	102		105.9	106	4			50-163/19
Bromochloromethane	50.0	0.0	44.8	90		42.8	86	5			63-155/15
Chloroform	50.0	0.0	53.3	107		51.1	102	4			66-159/16
1,1,1-Trichloroethane	50.0	0.0	60.8	122		58.8	118	3			68-152/14
Carbon tetrachloride	50.0	0.0	58.1	116		55.5	111	5			60-165/18
1,1-Dichloropropene	50.0	0.0	52.5	105		50.1	100	5			52-141/15
1,2-Dichloroethane (EDC)	50.0	0.0	43.3	87		41.0	82	5			63-159/16
Benzene	50.0	0.0	51.1	102		49.5	99	3			53-143/15
Trichloroethene	50.0	0.0	49.1	98		48.3	97	2			62-153/15
1,2-Dichloropropane	50.0	0.0	48.4	97		47.4	95	2			55-147/15
Dibromomethane	50.0	0.0	39.5	79		37.8	76	4			51-146/16
1,4-Dioxane	1,500	0.0	1529	102		1245	83	20			40-173/22
Bromodichloromethane	50.0	0.0	48.1	96		47.3	95	2			63-150/14
cis-1,3-Dichloropropene	50.0	0.0	48.3	97		47.6	95	1			66-143/13
4-Methyl-2-pentanone (MIBK)	100	0.0	95.6	96		90.9	91	5			45-155/18
Toluene	50.0	0.0	48.9	98		47.7	95	2			70-138/12
trans-1,3-Dichloropropene	50.0	0.0	41.6	83		40.9	82	2			58-156/16
1,1,2-Trichloroethane	50.0	0.0	37.7	75		36.7	73	3			58-156/16
Tetrachloroethene	50.0	0.0	50.4	101		49.6	99	2			57-157/17
1,3-Dichloropropane	50.0	0.0	39.1	78		37.6	75	4			56-158/17

INTEGRATED ANALYTICAL LABORATORIES

MS/MSD ACCURACY REPORT

Lab ID: E17-07782-005
 Client ID: SW-1-091117
 Date Received: NA
 Date Analyzed: 09/18/2017
 MS Data file: E1540.D
 MSD Data file: E1541.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1
 Dilution Factor: 1

Compound	Conc. Add	Sample	Conc. MS	%Rec. MS	#	Conc. MSD	%Rec. MSD	#	% RPD	#	Limits
2-Hexanone	100	0.0	103.5	104		109.6	110	6			36-169/22
Dibromochloromethane	50.0	0.0	40.8	82		38.6	77	6			53-153/17
1,2-Dibromoethane (EDB)	50.0	0.0	37.7	75		36.3	73	4			55-140/14
Chlorobenzene	50.0	0.0	48.7	97		46.2	92	5			65-136/12
1,1,1,2-Tetrachloroethane	50.0	0.0	51.4	103		49.2	98	4			60-136/13
Ethylbenzene	50.0	0.0	50.4	101		48.6	97	4			63-144/14
m,p-Xylene	100	0.0	103.1	103		98.4	98	5			51-144/15
o-Xylene	50.0	0.0	55.2	110		51.9	104	6			47-141/16
Styrene	50.0	0.0	52.4	105		50.4	101	4			59-140/14
Bromoform	50.0	0.0	36.2	72		40.9	82	12			63-135/12
Isopropylbenzene	50.0	0.0	54.8	110		52.9	106	4			61-139/13
1,1,2,2-Tetrachloroethane	50.0	0.0	48.6	97		49.9	100	3			62-119/10
Bromobenzene	50.0	0.0	47.0	94		45.2	90	4			63-144/14
1,2,3-Trichloropropane	50.0	0.0	44.0	88		41.7	83	5			37-149/19
n-Propylbenzene	50.0	0.0	51.0	102		49.1	98	4			63-149/14
2-Chlorotoluene	50.0	0.0	52.0	104		49.6	99	5			68-144/13
1,3,5-Trimethylbenzene	50.0	0.0	55.4	111		51.9	104	7			64-140/13
4-Chlorotoluene	50.0	0.0	50.6	101		48.9	98	3			67-144/13
tert-Butylbenzene	50.0	0.0	57.8	116		56.0	112	3			68-142/12
1,2,4-Trimethylbenzene	50.0	0.0	52.7	105		51.1	102	3			63-139/13
sec-Butylbenzene	50.0	0.0	57.3	115		54.0	108	6			61-146/14
1,3-Dichlorobenzene	50.0	0.0	49.8	100		48.4	97	3			70-141/12
4-Isopropyltoluene	50.0	0.0	57.7	115		54.6	109	6			65-144/13
1,4-Dichlorobenzene	50.0	0.0	50.0	100		47.9	96	4			70-147/13
n-Butylbenzene	50.0	0.0	58.0	116		56.1	112	3			53-147/16
1,2-Dichlorobenzene	50.0	0.0	49.6	99		47.1	94	5			71-133/10
1,2-Dibromo-3-chloropropane	50.0	0.0	59.7	119		56.9	114	5			51-131/13
1,2,4-Trichlorobenzene	50.0	0.0	50.1	100		46.2	92	8			49-140/15
Hexachlorobutadiene	50.0	0.0	54.4	109		51.5	103	5			48-141/16
Naphthalene	50.0	0.0	35.7	71		37.8	76	6			57-138/14
1,2,3-Trichlorobenzene	50.0	0.0	43.6	87		39.8	80	9			55-142/15
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	0.0	57.3	115		54.1	108	6			46-134/15
Methyl acetate	50.0	0.0	53.2	106		55.9	112	5			44-132/15
Cyclohexane	50.0	0.0	54.6	109		50.6	101	8			52-130/13
Methylcyclohexane	50.0	0.0	52.7	105		49.8	100	6			51-155/17

Leachate

Aqueous/Meoh Soil/Sediment

MS/MSD Recovery Limits (DKQP)

70-130

70-130

MS/MSD RPD Limits (DKQP)

20

30

Column used to flag recovery and RPD values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

NC Not calculable

INTEGRATED ANALYTICAL LABORATORIES

MS/MSD ACCURACY REPORT

Lab ID: E17-07782-005
 Client ID: SW-1-091117
 Date Received: NA
 Date Analyzed: 09/18/2017
 MS Data file: E1540.D
 MSD Data file: E1541.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1
 Dilution Factor: 1

Compound	Conc. Add	Conc. Sample	%Rec. MS	%Rec. MS	Conc. #	%Rec. MSD	%Rec. MSD	#	%RP	#
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2-Chloroethyl vinyl ether has zero spike recovery in the MS/MSD. This is due to the HCL acid preservation used on the samples. It is a known phenomenon, that this compound decomposes in the presence of acid.

As per SW-846 8260C, up to 10% of the compounds may be out , but may be within 40-160%

As per NJDEP DKQPs, only the following compounds may be in the 40-160% range:

Acetone; Bromomethane; 2-Butanone (MEK); Carbon disulfide; Chloroethane; Chloromethane
 1,2-Dibromo-3-chloropropane; Dichlorodifluoromethane; 1,4-Dioxane; 2-Hexanone
 Naphthalene; 4-Methyl-2-pentanone (MIBK); Trichlorofluoromethane

	Leachate Aqueous/Meoh	Soil/Sediment
MS/MSD Recovery Limits (DKQP)	70-130	70-130
MS/MSD RPD Limits (DKQP)	30/20	30/30

Column used to flag recovery and RPD values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

NC Not calculable

INTEGRATED ANALYTICAL LABORATORIES

8260

MS/MSD ACCURACY REPORT

Lab ID: E17-07838-008
Client ID: MW-2D
Date Received: NA
Date Analyzed: 09/19/2017
MS Data file: E1556.D
MSD Data file: E1557.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1
Dilution Factor: 1

Compound	Conc. Add	Sample	Conc. MS	%Rec. MS	#	Conc. MSD	%Rec. MSD	#	% RPD	#	Limits
Dichlorodifluoromethane	50.0	0.0	48.7	97		44.6	89	9			61-164/17
Chloromethane	50.0	0.0	43.3	87		41.1	82	5			29-149/20
Vinyl chloride	50.0	0.0	53.6	107		51.5	103	4			30-167/23
Bromomethane	50.0	0.0	53.1	106		56.6	113	6			53-158/18
Chloroethane	50.0	4.5	56.7	104		58.0	107	2			57-144/14
Trichlorofluoromethane	50.0	0.0	60.3	121		59.7	119	1			50-159/18
1,1-Dichloroethene	50.0	0.0	47.8	96		45.7	91	4			55-135/13
Acetone	100	0.0	87.9	88		93.9	94	7			37-160/21
Carbon disulfide	50.0	0.0	57.5	115		58.0	116	1			46-143/16
Vinyl acetate	50.0	0.0	54.1	108		56.6	113	5			24-151/21
Methylene chloride	50.0	0.0	49.1	98		47.7	95	3			63-136/12
Acrylonitrile	150	0.0	188	125		191	127	2			55-180/21
tert-Butyl alcohol (TBA)	100	0.0	97.8	98		94.9	95	3			42-143/17
trans-1,2-Dichloroethene	50.0	0.0	49.9	100		48.5	97	3			58-142/14
Methyl tert-butyl ether (MTBE)	50.0	0.0	38.9	78		40.9	82	5			35-132/16
1,1-Dichloroethane	50.0	0.5	51.1	101		49.0	97	4			63-140/13
Diisopropyl ether (DIPE)	50.0	0.0	48.2	96		47.0	94	3			41-160/20
cis-1,2-Dichloroethene	50.0	0.0	51.1	102		49.2	98	4			54-158/17
2,2-Dichloropropane	50.0	0.0	50.1	100		57.9	116	14			29-152/21
2-Butanone (MEK)	100	0.0	101.5	102		105.9	106	4			50-163/19
Bromochloromethane	50.0	0.0	38.6	77		37.9	76	2			63-155/15
Chloroform	50.0	0.0	50.3	101		49.2	98	2			66-159/16
1,1,1-Trichloroethane	50.0	0.0	57.6	115		56.1	112	3			68-152/14
Carbon tetrachloride	50.0	0.0	53.6	107		52.4	105	2			60-165/18
1,1-Dichloropropene	50.0	0.0	48.6	97		46.1	92	5			52-141/15
1,2-Dichloroethane (EDC)	50.0	0.0	38.2	76		36.4	73	5			63-159/16
Benzene	50.0	0.0	49.0	98		46.2	92	6			53-143/15
Trichloroethene	50.0	0.0	48.9	98		45.8	92	7			62-153/15
1,2-Dichloropropane	50.0	0.0	45.5	91		43.3	87	5			55-147/15
Dibromomethane	50.0	0.0	55.6	111		52.7	105	5			51-146/16
1,4-Dioxane	1,500	0.0	1785	119		1815	121	2			40-173/22
Bromodichloromethane	50.0	0.0	44.3	89		42.3	85	5			63-150/14
cis-1,3-Dichloropropene	50.0	0.0	43.3	87		40.5	81	7			66-143/13
4-Methyl-2-pentanone (MIBK)	100	0.0	95.6	96		90.9	91	5			45-155/18
Toluene	50.0	0.0	47.1	94		44.4	89	6			70-138/12
trans-1,3-Dichloropropene	50.0	0.0	36.1	72		40.5	81	11			58-156/16
1,1,2-Trichloroethane	50.0	0.0	44.3	89		40.7	81	8			58-156/16
Tetrachloroethene	50.0	0.0	46.7	93		43.7	87	7			57-157/17
1,3-Dichloropropane	50.0	0.0	36.8	74		35.8	72	3			56-158/17

INTEGRATED ANALYTICAL LABORATORIES

MS/MSD ACCURACY REPORT

Lab ID: E17-07838-008
 Client ID: MW-2D
 Date Received: NA
 Date Analyzed: 09/19/2017
 MS Data file: E1556.D
 MSD Data file: E1557.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1
 Dilution Factor: 1

Compound	Conc. Add	Conc. Sample	Conc. MS	%Rec. MS	Conc. # MSD	%Rec. MSD	% # RPD	Limits
2-Hexanone	100	0.0	103.5	104	109.6	110	6	36-169/22
Dibromochloromethane	50.0	0.0	35.6	71	38.7	77	8	53-153/17
1,2-Dibromoethane (EDB)	50.0	0.0	54.1	108	50.4	101	7	55-140/14
Chlorobenzene	50.0	0.0	46.2	92	44.1	88	5	65-136/12
1,1,1,2-Tetrachloroethane	50.0	0.0	48.1	96	46.5	93	3	60-136/13
Ethylbenzene	50.0	0.0	48.0	96	47.0	94	2	63-144/14
m,p-Xylene	100	0.0	98.2	98	93.3	93	5	51-144/15
o-Xylene	50.0	0.0	52.1	104	49.9	100	4	47-141/16
Styrene	50.0	0.0	48.2	96	47.5	95	1	59-140/14
Bromoform	50.0	0.0	52.7	105	50.2	100	5	63-135/12
Isopropylbenzene	50.0	0.0	53.2	106	51.4	103	3	61-139/13
1,1,2,2-Tetrachloroethane	50.0	0.0	48.6	97	49.9	100	3	62-119/10
Bromobenzene	50.0	0.0	42.7	85	40.6	81	5	63-144/14
1,2,3-Trichloropropane	50.0	0.0	44.0	88	41.7	83	5	37-149/19
n-Propylbenzene	50.0	0.0	48.3	97	47.0	94	3	63-149/14
2-Chlorotoluene	50.0	0.0	48.6	97	47.2	94	3	68-144/13
1,3,5-Trimethylbenzene	50.0	0.0	51.3	103	50.2	100	2	64-140/13
4-Chlorotoluene	50.0	0.0	48.0	96	45.8	92	5	67-144/13
tert-Butylbenzene	50.0	0.0	55.3	111	53.3	107	4	68-142/12
1,2,4-Trimethylbenzene	50.0	0.0	48.8	98	47.2	94	3	63-139/13
sec-Butylbenzene	50.0	0.0	52.1	104	51.4	103	1	61-146/14
1,3-Dichlorobenzene	50.0	0.0	46.3	93	43.6	87	6	70-141/12
4-Isopropyltoluene	50.0	0.0	52.5	105	50.5	101	4	65-144/13
1,4-Dichlorobenzene	50.0	0.0	44.0	88	43.3	87	2	70-147/13
n-Butylbenzene	50.0	0.0	52.0	104	50.5	101	3	53-147/16
1,2-Dichlorobenzene	50.0	0.0	43.2	86	41.7	83	4	71-133/10
1,2-Dibromo-3-chloropropane	50.0	0.0	59.7	119	56.9	114	5	51-131/13
1,2,4-Trichlorobenzene	50.0	0.0	40.6	81	39.0	78	4	49-140/15
Hexachlorobutadiene	50.0	0.0	50.9	102	45.0	90	12	48-141/16
Naphthalene	50.0	0.0	51.3	103	47.8	96	7	57-138/14
1,2,3-Trichlorobenzene	50.0	0.0	44.2	88	40.2	80	9	55-142/15
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	0.0	53.8	108	48.9	98	10	46-134/15
Methyl acetate	50.0	0.0	53.2	106	55.9	112	5	44-132/15
Cyclohexane	50.0	0.0	49.8	100	46.4	93	7	52-130/13
Methylcyclohexane	50.0	0.0	47.8	96	44.2	88	8	51-155/17

Leachate

Aqueous/Meoh Soil/Sediment

MS/MSD Recovery Limits (DKQP)

70-130

70-130

MS/MSD RPD Limits (DKQP)

20

30

Column used to flag recovery and RPD values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

NC Not calculable

INTEGRATED ANALYTICAL LABORATORIES

MS/MSD ACCURACY REPORT

Lab ID: E17-07838-008
 Client ID: MW-2D
 Date Received: NA
 Date Analyzed: 09/19/2017
 MS Data file: E1556.D
 MSD Data file: E1557.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 % Moisture: 100
 Dilution Factor: 1
 Dilution Factor: 1

Compound	Conc. Add	Conc. Sample	Conc. MS	%Rec. MS	#	Conc. MSD	%Rec. MSD	#	%RP	#
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2-Chloroethyl vinyl ether has zero spike recovery in the MS/MSD. This is due to the HCL acid preservation used on the samples. It is a known phenomenon, that this compound decomposes in the presence of acid.

As per SW-846 8260C, up to 10% of the compounds may be out , but may be within 40-160%

As per NJDEP DKQPs, only the following compounds may be in the 40-160% range:

Acetone; Bromomethane; 2-Butanone (MEK); Carbon disulfide; Chloroethane; Chloromethane

1,2-Dibromo-3-chloropropane; Dichlorodifluoromethane; 1,4-Dioxane; 2-Hexanone

Naphthalene; 4-Methyl-2-pentanone (MIBK); Trichlorofluoromethane

	Leachate Aqueous/Meoh	Soil/Sediment
MS/MSD Recovery Limits (DKQP)	70-130	70-130
MS/MSD RPD Limits (DKQP)	30/20	30/30

Column used to flag recovery and RPD values that did not meet criteria

* Values outside of QC limits

\$ Values outside of NJ DKQP limits

NC Not calculable

VOLATILE METHOD BLANK SUMMARY

Lab File ID: E1529.D

Instrument ID: MSD_E

Date Analyzed: 09/18/2017

Time Analyzed: 13:44

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS & MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
MW-4	E17-07838-001	09/18/2017	14:14
MW-7	E17-07838-002	09/18/2017	14:44
FIELD_BLANK_	E17-07838-003	09/18/2017	15:14
MW-14	E17-07838-004	09/18/2017	15:44
MW-3	E17-07838-005	09/18/2017	16:13
MW-13	E17-07838-006	09/18/2017	16:43
MW-2	E17-07838-007	09/18/2017	17:13
PRB-16-09131	E17-07836-002	09/18/2017	17:42
MW/RW-11-091	E17-07836-003	09/18/2017	18:13
LCSA170918	LCSA170918	09/18/2017	18:42
E17-07782-005MS	E17-07782-005MS	09/18/2017	19:12
E17-07782-005MSD	E17-07782-005MSD	09/18/2017	19:42
MW-13	E17-07838-006DL	09/18/2017	20:11
SW-1-091117	E17-07782-005	09/18/2017	20:41
SW-2-091117	E17-07782-006	09/18/2017	21:11
SW-3-091117	E17-07782-007	09/18/2017	21:40
SW-X-091117	E17-07782-008	09/18/2017	22:10
EB-091117	E17-07782-009	09/18/2017	22:40
TB-091117	E17-07782-010	09/18/2017	23:09

VOLATILE METHOD BLANK SUMMARY

Lab File ID: E1553.D

Instrument ID: MSD_E

Date Analyzed: 09/19/2017

Time Analyzed: 01:39

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS & MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
WELL_PT	E17-07689-001	09/19/2017	2:09
LCSA170918a	LCSA170918a	09/19/2017	2:39
E17-07838-008MS	E17-07838-008MS	09/19/2017	3:09
E17-07838-008MSD	E17-07838-008MSD	09/19/2017	3:38
MW-2D	E17-07838-008	09/19/2017	4:38
TRIP_BLANK	E17-07838-009	09/19/2017	5:08
MW-1	E17-07838-010	09/19/2017	5:37
MW-5	E17-07838-011	09/19/2017	6:07
MW-8	E17-07838-012	09/19/2017	6:37
MW-10	E17-07838-013	09/19/2017	7:06
MW-9	E17-07838-014	09/19/2017	7:36
FIELD_BLANK_	E17-07838-015	09/19/2017	8:06
MW-11D	E17-07838-016	09/19/2017	8:36
MW-11	E17-07838-017	09/19/2017	9:05
CR-MW1R	E17-07794-001	09/19/2017	9:35
TW-2	E17-07736-001	09/19/2017	10:05
MW-9	E17-07838-014DL	09/19/2017	10:35
MW-2	E17-07838-007DL	09/19/2017	11:04

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

Lab File ID: E1454.D

BFB Injection Date: 09/12/2017

Inst ID: MSD_E

BFB Injection Time: 13:48

m/z	Ion Abundance Criteria	%Relative Abundance
50	15 - 40.0% of mass 95	29.8
75	30.0 - 60.0% of mass 95	55.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.9 (1.4)1
174	Great than 50.0% of mass 95	61.9
175	5.0 - 9.0% of mass 174	5.3 (8.6)1
176	95.0 - 101.0% of mass 174	62.3 (100.6)1
177	5.0 - 9.0% of mass 176	4.7 (7.5)2
	1-Value is % mass 174	2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

Client ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
ICC100	ICC170912	E1459.D	09/12/2017	16:18
ICC00.5	ICC170912	E1455.D	09/12/2017	14:18
ICC001	ICC170912	E1456.D	09/12/2017	14:48
ICC005	ICC170912	E1457.D	09/12/2017	15:18
ICC020	ICC170912	E1458.D	09/12/2017	15:48
ICC150	ICC170912	E1460.D	09/12/2017	16:48
ICC200	ICC170912	E1461.D	09/12/2017	17:18
ICV100	ICV170912	E1463.D	09/12/2017	18:18
BLKA170912	BLKA170912	E1466.D	09/12/2017	19:47
TB	E17-07745-013	E1467.D	09/12/2017	20:17
FB-9	E17-07622-003	E1468.D	09/12/2017	20:48
FB-10	E17-07663-002	E1469.D	09/12/2017	21:17
TWP-1	E17-07702-001	E1470.D	09/12/2017	21:47
TWP-2	E17-07702-002	E1471.D	09/12/2017	22:17
TWP-3	E17-07702-003	E1472.D	09/12/2017	22:47
MW-5	E17-07691-001	E1473.D	09/12/2017	23:17
MW-1	E17-07720-001	E1474.D	09/12/2017	23:47
LCSA170912	LCSA170912	E1475.D	09/13/2017	0:17
E17-07691-001MS	E17-07691-001MS	E1476.D	09/13/2017	0:47
E17-07691-001MSI	E17-07691-001MS	E1477.D	09/13/2017	1:17

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

Lab File ID: E1525.D

BFB Injection Date: 09/18/2017

Inst ID: MSD_E

BFB Injection Time: 11:45

m/z	Ion Abundance Criteria	%Relative Abundance
50	15 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	47.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.4
173	Less than 2.0% of mass 174	1.5 (1.9)1
174	Great than 50.0% of mass 95	80.7
175	5.0 - 9.0% of mass 174	5.9 (7.3)1
176	95.0 - 101.0% of mass 174	81.5 (101.0)1
177	5.0 - 9.0% of mass 176	4.2 (5.1)2
	1-Value is % mass 174	2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

Client ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
CCV100	CCV170918	E1526.D	09/18/2017	12:14
BLKA170918	BLKA170918	E1529.D	09/18/2017	13:44
MW-4	E17-07838-001	E1530.D	09/18/2017	14:14
MW-7	E17-07838-002	E1531.D	09/18/2017	14:44
FIELD_BLANK_	E17-07838-003	E1532.D	09/18/2017	15:14
MW-14	E17-07838-004	E1533.D	09/18/2017	15:44
MW-3	E17-07838-005	E1534.D	09/18/2017	16:13
MW-13	E17-07838-006	E1535.D	09/18/2017	16:43
MW-2	E17-07838-007	E1536.D	09/18/2017	17:13
PRB-16-09131	E17-07836-002	E1537.D	09/18/2017	17:42
MW/RW-11-091	E17-07836-003	E1538.D	09/18/2017	18:13
LCSA170918	LCSA170918	E1539.D	09/18/2017	18:42
E17-07782-005MS	E17-07782-005MS	E1540.D	09/18/2017	19:12
E17-07782-005MSI	E17-07782-005MS	E1541.D	09/18/2017	19:42
MW-13	E17-07838-006DL	E1542.D	09/18/2017	20:11
SW-1-091117	E17-07782-005	E1543.D	09/18/2017	20:41
SW-2-091117	E17-07782-006	E1544.D	09/18/2017	21:11
SW-3-091117	E17-07782-007	E1545.D	09/18/2017	21:40
SW-X-091117	E17-07782-008	E1546.D	09/18/2017	22:10
EB-091117	E17-07782-009	E1547.D	09/18/2017	22:40

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

Lab File ID: E1525.D

BFB Injection Date : 09/18/201

Inst ID: MSD_E

BFB Injection Time: 11:45

m/z	Ion Abundance Criteria	%Relative Abundance
50	15 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	47.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.4
173	Less than 2.0% of mass 174	1.5 (1.9)1
174	Great than 50.0% of mass 95	80.7
175	5.0 - 9.0% of mass 174	5.9 (7.3)1
176	95.0 - 101.0% of mass 174	81.5 (101.0)1
177	5.0 - 9.0% of mass 176	4.2 (5.1)2
	1-Value is % mass 174	2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

Client ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
TB-091117	E17-07782-010	E1548.D	09/18/2017	23:09

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

Lab File ID: E1549.D

BFB Injection Date: 09/19/2017

Inst ID: MSD_E

BFB Injection Time: 23:40

m/z	Ion Abundance Criteria	%Relative Abundance
50	15 - 40.0% of mass 95	28.8
75	30.0 - 60.0% of mass 95	55.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.0 (1.5)1
174	Great than 50.0% of mass 95	64.6
175	5.0 - 9.0% of mass 174	4.9 (7.6)1
176	95.0 - 101.0% of mass 174	62.2 (96.3)1
177	5.0 - 9.0% of mass 176	4.2 (6.8)2
	1-Value is % mass 174	2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

Client ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
CCV100	CCV170918a	E1550.D	09/19/2017	0:09
BLKA170918a	BLKA170918a	E1553.D	09/19/2017	1:39
WELL_PT	E17-07689-001	E1554.D	09/19/2017	2:09
LCSA170918a	LCSA170918a	E1555.D	09/19/2017	2:39
E17-07838-008MS	E17-07838-008MS	E1556.D	09/19/2017	3:09
E17-07838-008MSI	E17-07838-008MS	E1557.D	09/19/2017	3:38
MW-2D	E17-07838-008	E1559.D	09/19/2017	4:38
TRIP_BLANK	E17-07838-009	E1560.D	09/19/2017	5:08
MW-1	E17-07838-010	E1561.D	09/19/2017	5:37
MW-5	E17-07838-011	E1562.D	09/19/2017	6:07
MW-8	E17-07838-012	E1563.D	09/19/2017	6:37
MW-10	E17-07838-013	E1564.D	09/19/2017	7:06
MW-9	E17-07838-014	E1565.D	09/19/2017	7:36
FIELD_BLANK_	E17-07838-015	E1566.D	09/19/2017	8:06
MW-11D	E17-07838-016	E1567.D	09/19/2017	8:36
MW-11	E17-07838-017	E1568.D	09/19/2017	9:05
CR-MW1R	E17-07794-001	E1569.D	09/19/2017	9:35
TW-2	E17-07736-001	E1570.D	09/19/2017	10:05
MW-9	E17-07838-014DL	E1571.D	09/19/2017	10:35
MW-2	E17-07838-007DL	E1572.D	09/19/2017	11:04

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): E1459.D

Date Analyzed: 09/12/2017

Instrument ID: MSD_E

Time Analyzed: 16:18

	50UG/L	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	749966	6.40	1343564	7.23	1101227	10.57
	UPPER LIMIT	1499932	6.90	2687128	7.73	2202454	11.07
	LOWER LIMIT	374983	5.90	671782	6.73	550613.5	10.07
	LAB SAMPLE ID						
01	ICC170912	676483	6.40	1243496	7.23	970114	10.58
02	ICC170912	661560	6.40	1211441	7.23	949578	10.58
03	ICC170912	679851	6.40	1214244	7.23	967292	10.58
04	ICC170912	703764	6.40	1260145	7.23	1028392	10.57
05	ICC170912	796123	6.40	1409701	7.23	1165937	10.57
06	ICC170912	844835	6.40	1502491	7.22	1224236	10.57
07	ICV170912	814558	6.40	1437084	7.23	1192727	10.58
08	BLKA170912	711885	6.41	1305803	7.23	1037650	10.58
09	E17-07745-013	671336	6.41	1235941	7.23	979960	10.58
10	E17-07622-003	666182	6.41	1251886	7.23	984211	10.58
11	E17-07663-002	644190	6.41	1183970	7.23	958420	10.58
12	E17-07702-001	668855	6.40	1201446	7.23	962323	10.58
13	E17-07702-002	623842	6.40	1188456	7.23	920236	10.58
14	E17-07702-003	600131	6.41	1132369	7.23	896753	10.58
15	E17-07691-001	598141	6.41	1131640	7.23	887950	10.58
16	E17-07720-001	576469	6.41	1098627	7.23	850212	10.58
17	LCSA170912	663968	6.40	1222115	7.23	978907	10.58
18	E17-07691-001MS	665465	6.40	1223400	7.22	979992	10.57
19	E17-07691-001MSD	680279	6.40	1236651	7.23	975924	10.57
20							
21							
22							

IS1 = PENTAFLUOROBENZENE

IS2 = 1,4-DIFLUOROBENZENE

IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): E1526.D

Date Analyzed: 09/18/2017

Instrument ID: MSD_E

Time Analyzed: 12:14

	50UG/L	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	720990	6.41	1281681	7.23	1055527	10.58
	UPPER LIMIT	1441980	6.91	2563362	7.73	2111054	11.08
	LOWER LIMIT	360495	5.91	640840.5	6.73	527763.5	10.08
	LAB SAMPLE ID						
01	BLKA170918	616434	6.41	1129461	7.23	922480	10.58
02	E17-07838-001	607847	6.40	1125192	7.23	910581	10.58
03	E17-07838-002	600912	6.41	1110981	7.23	875258	10.58
04	E17-07838-003	614544	6.41	1150645	7.23	914676	10.58
05	E17-07838-004	602727	6.41	1094976	7.23	873623	10.58
06	E17-07838-005	600150	6.41	1077017	7.23	863458	10.58
07	E17-07838-006	589182	6.41	1072569	7.23	848153	10.58
08	E17-07838-007	591118	6.41	1111103	7.23	868656	10.58
09	E17-07836-002	614744	6.41	1099916	7.23	869381	10.57
10	E17-07836-003	618265	6.41	1095574	7.23	862210	10.58
11	LCSA170918	613408	6.40	1111548	7.23	900208	10.58
12	E17-07782-005MS	609628	6.40	1117323	7.23	888791	10.58
13	E17-07782-005MSD	631743	6.40	1140076	7.23	929490	10.58
14	E17-07838-006DL	573315	6.40	1062412	7.23	852728	10.58
15	E17-07782-005	559871	6.40	1069027	7.23	828456	10.58
16	E17-07782-006	548853	6.40	1046937	7.23	803388	10.58
17	E17-07782-007	535132	6.40	1017546	7.23	808533	10.58
18	E17-07782-008	530944	6.40	1028646	7.22	811700	10.58
19	E17-07782-009	540647	6.40	1023457	7.23	802234	10.58
20	E17-07782-010	542463	6.40	1032198	7.23	789344	10.58
21							
22							

IS1 = PENTAFLUOROBENZENE

IS2 = 1,4-DIFLUOROBENZENE

IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): E1550.D

Date Analyzed: 09/19/2017

Instrument ID: MSD_E

Time Analyzed: 0:09

	50UG/L	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	620496	6.40	1085871	7.23	884587	10.58
	UPPER LIMIT	1240992	6.90	2171742	7.73	1769174	11.08
	LOWER LIMIT	310248	5.90	542935.5	6.73	442293.5	10.08
	LAB SAMPLE ID						
01	BLKA170918a	544445	6.40	1013002	7.23	801723	10.58
02	E17-07689-001	550897	6.40	1038193	7.23	824137	10.58
03	LCSA170918a	657905	6.40	1216181	7.23	966442	10.58
04	E17-07838-008MS	691103	6.40	1244142	7.22	993378	10.58
05	E17-07838-008MSD	698160	6.40	1272336	7.23	993585	10.58
06	E17-07838-008	620516	6.40	1195667	7.23	889265	10.57
07	E17-07838-009	589786	6.40	1105986	7.23	859864	10.58
08	E17-07838-010	578732	6.40	1076278	7.22	858118	10.58
09	E17-07838-011	612768	6.41	1164699	7.23	921674	10.58
10	E17-07838-012	566150	6.41	1080822	7.23	840149	10.58
11	E17-07838-013	541844	6.40	1027988	7.23	800916	10.58
12	E17-07838-014	553327	6.40	1026151	7.23	790568	10.58
13	E17-07838-015	533811	6.40	1025080	7.23	798922	10.58
14	E17-07838-016	528516	6.40	1015725	7.23	791503	10.58
15	E17-07838-017	529366	6.41	994003	7.23	783235	10.58
16	E17-07794-001	538477	6.40	1005288	7.23	771198	10.58
17	E17-07736-001	553486	6.40	1002822	7.23	781886	10.58
18	E17-07838-014DL	598655	6.40	1117073	7.23	862724	10.58
19	E17-07838-007DL	551046	6.40	1033805	7.23	817585	10.58
20							
21							
22							

IS1 = PENTAFLUOROBENZENE

IS2 = 1,4-DIFLUOROBENZENE

IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

VOLATILE ORGANICS SAMPLE DATA

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1530.D
Acq On : 18 Sep 2017 14:14
Operator : BARBARA
Sample : MW-4, E17-07838-001, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 17:14:03 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	607847	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1125192	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	910581	50.00	UG	0.00

System Monitoring Compounds

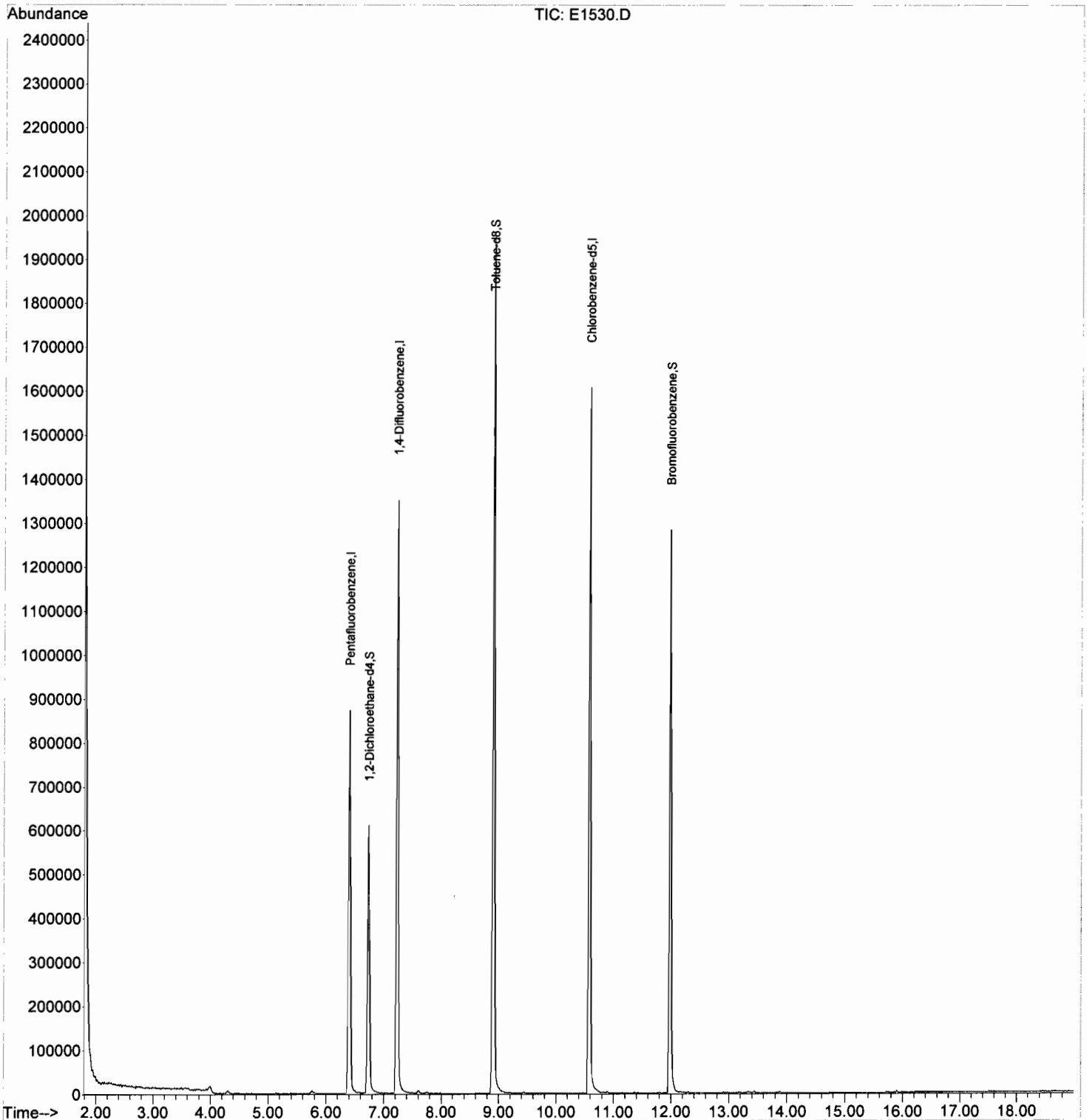
30) 1,2-Dichloroethane-d4	6.74	65	494465	47.84	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	95.68%
41) Toluene-d8	8.90	98	1400627	48.68	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.36%
59) Bromofluorobenzene	11.98	95	496448	46.43	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	92.86%

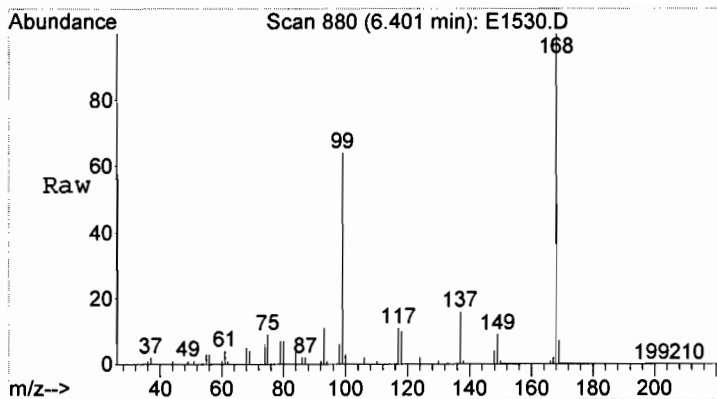
Target Compounds	Qvalue
------------------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1530.D
Acq On : 18 Sep 2017 14:14
Operator : BARBARA
Sample : MW-4, E17-07838-001, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 4 Sample Multiplier: 1

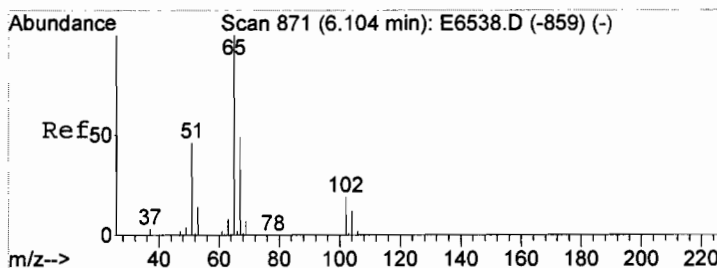
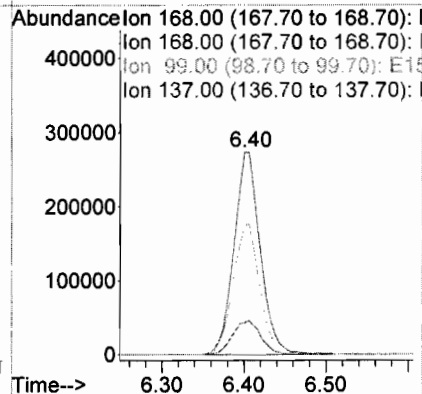
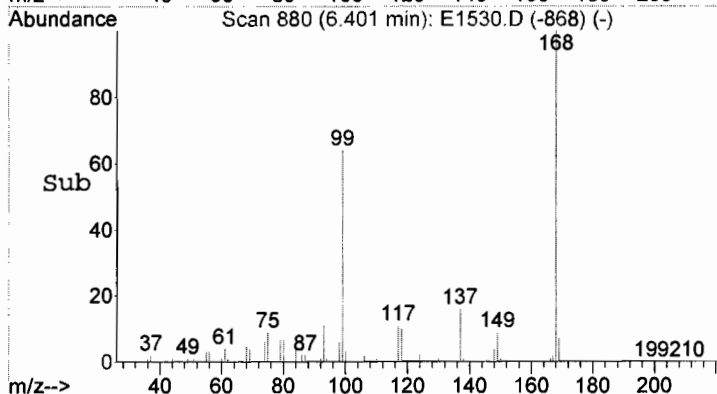
Quant Time: Sep 18 17:14:03 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





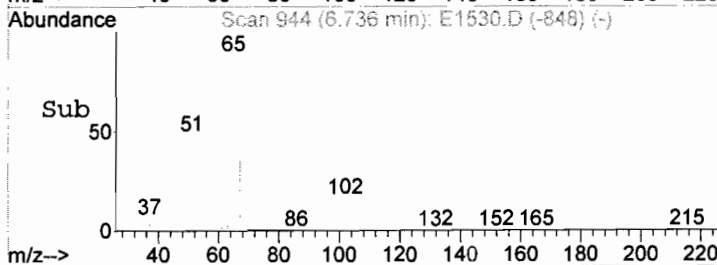
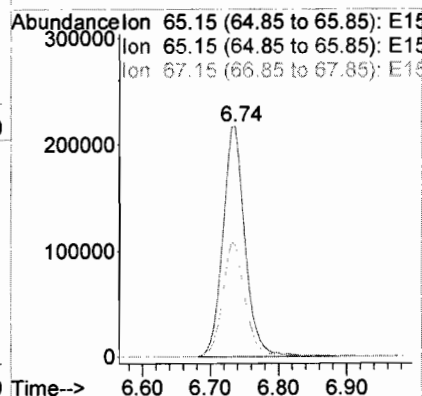
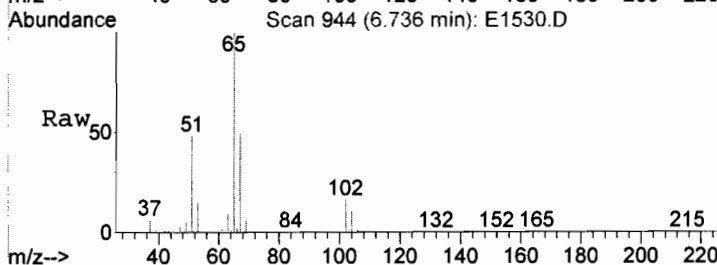
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. -0.00 min
Lab File: E1530.D
Acq: 18 Sep 2017 14:14

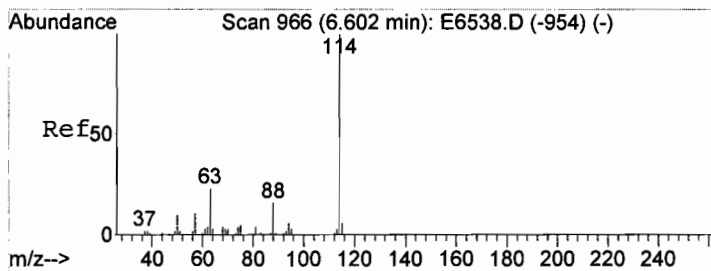
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#30
1,2-Dichloroethane-d4
Concen: 47.84 UG
RT: 6.74 min Scan# 944
Delta R.T. 0.01 min
Lab File: E1530.D
Acq: 18 Sep 2017 14:14

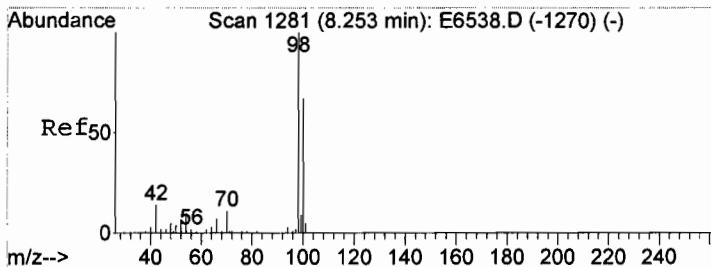
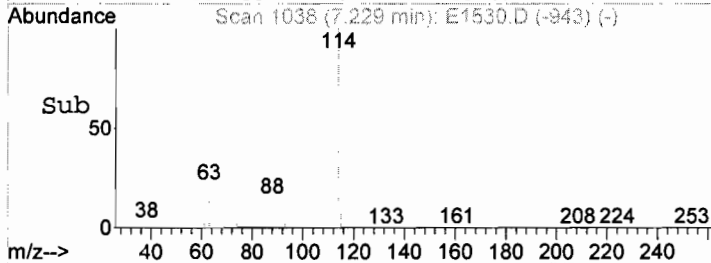
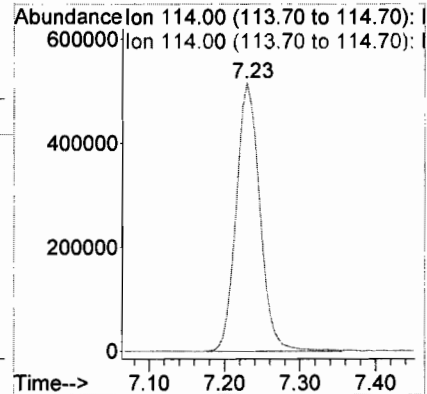
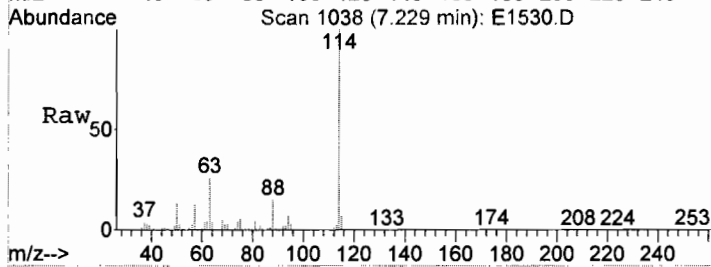
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.8	43.2	64.8





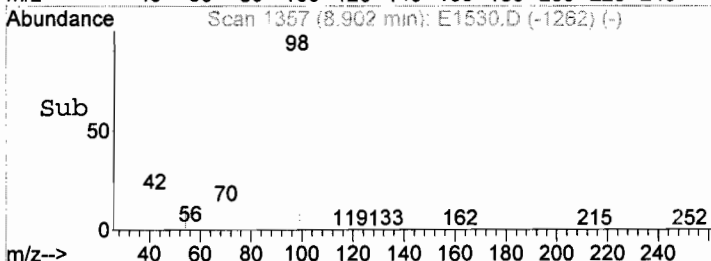
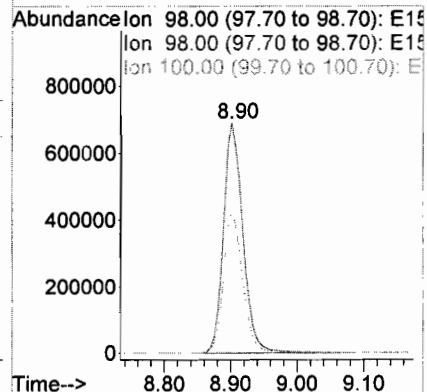
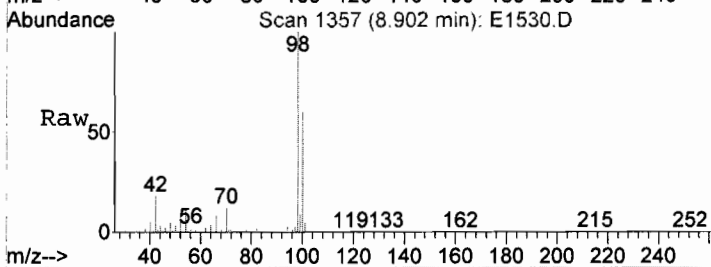
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. -0.00 min
Lab File: E1530.D
Acq: 18 Sep 2017 14:14

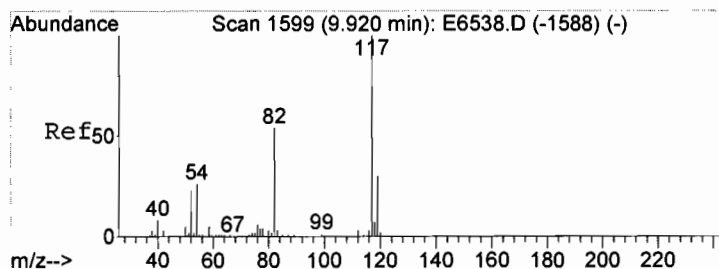
Tgt Ion: 114 Resp: 1125192
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 48.68 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1530.D
Acq: 18 Sep 2017 14:14

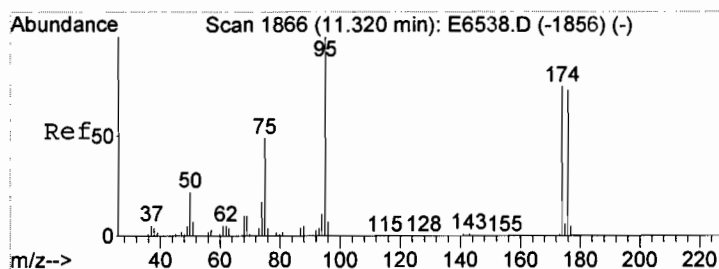
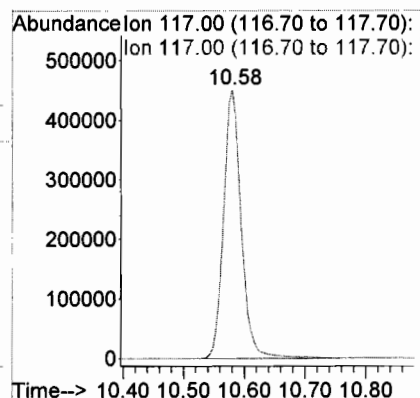
Tgt Ion: 98 Resp: 1400627
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.4 53.4 80.0





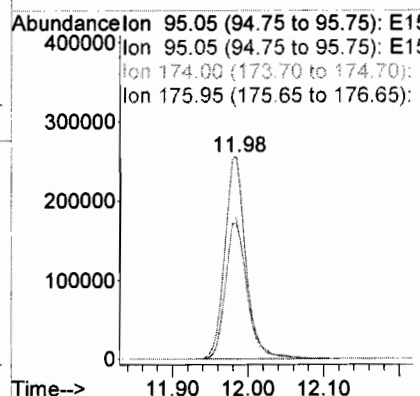
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1530.D
Acq: 18 Sep 2017 14:14

Tgt Ion: 117 Resp: 910581
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 46.43 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1530.D
Acq: 18 Sep 2017 14:14

Tgt Ion: 95 Resp: 496448
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 69.8 62.9 94.3
176 69.9 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1530.D
Acq On : 18 Sep 2017 14:14
Operator : BARBARA
Sample : MW-4, E17-07838-001, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.516	128	139	174	rVB	8427	79584	1.96%	0.481%
2	3.999	411	422	439	rVB3	16632	69856	1.72%	0.422%
3	6.401	868	880	908	rBV	873452	2029392	49.88%	12.263%
4	6.736	929	944	976	rBV	609250	1420493	34.92%	8.584%
5	7.229	1022	1038	1075	rBV	1350911	2944948	72.39%	17.796%
6	8.902	1343	1357	1398	rBV	1952705	4068416	100.00%	24.584%
7	10.579	1664	1677	1716	rBV	1608212	3346974	82.27%	20.225%
8	11.979	1932	1944	1975	rBV	1284647	2589163	63.64%	15.646%

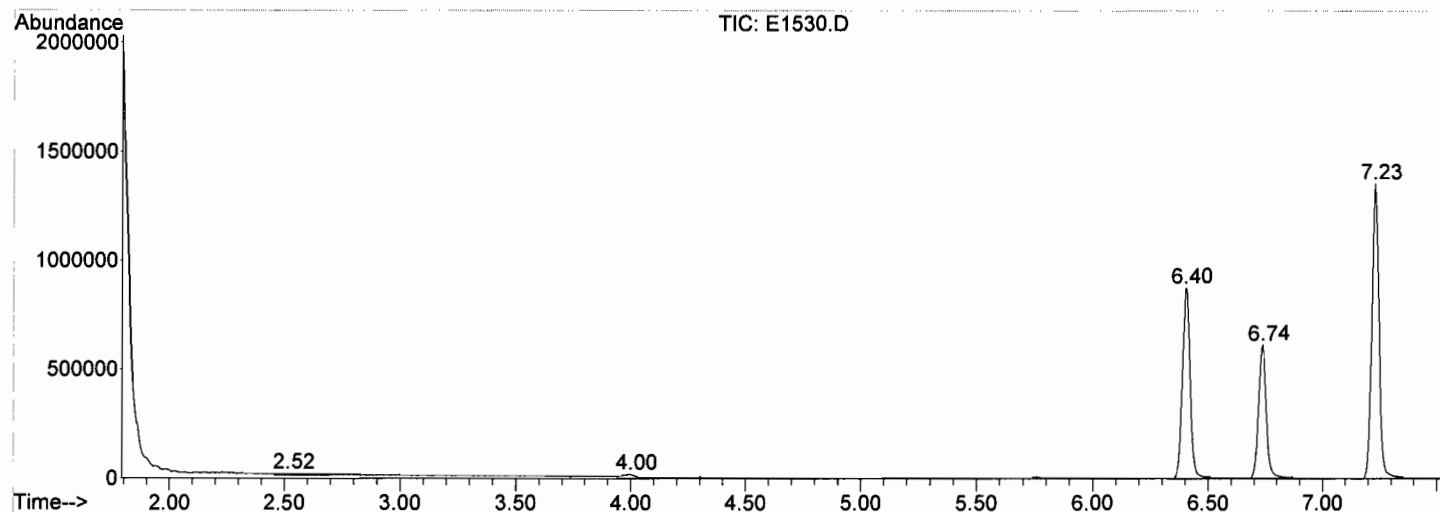
Sum of corrected areas: 16548826

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1530.D
 Acq On : 18 Sep 2017 14:14
 Operator : BARBARA
 Sample : MW-4, E17-07838-001, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1531.D
Acq On : 18 Sep 2017 14:44
Operator : BARBARA
Sample : MW-7, E17-07838-002, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 18 17:14:59 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	600912	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1110981	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	875258	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.74	65	478514	46.83	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	93.66%
41) Toluene-d8	8.91	98	1398352	49.22	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.44%
59) Bromofluorobenzene	11.98	95	486870	47.37	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	94.74%

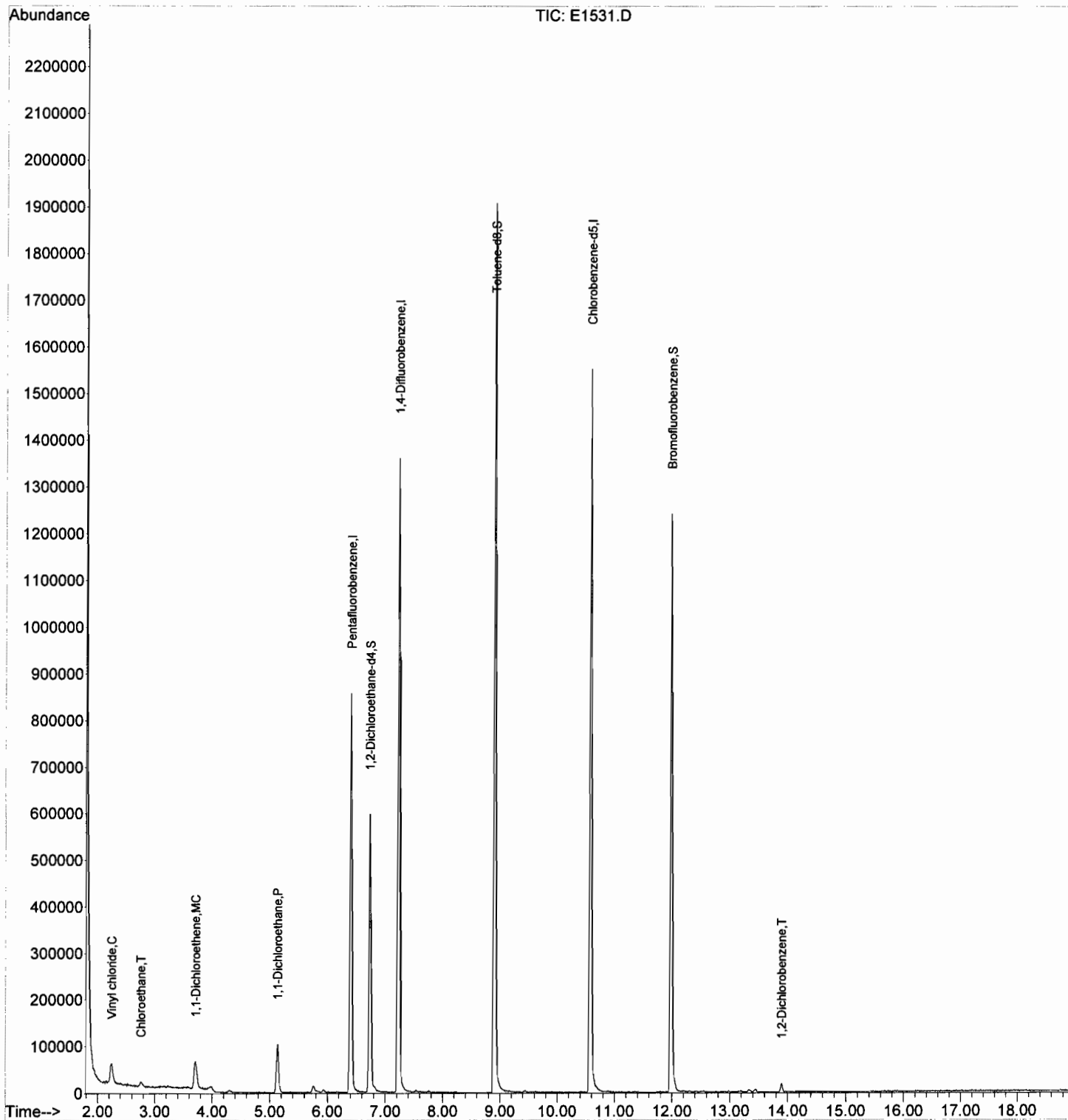
Target Compounds

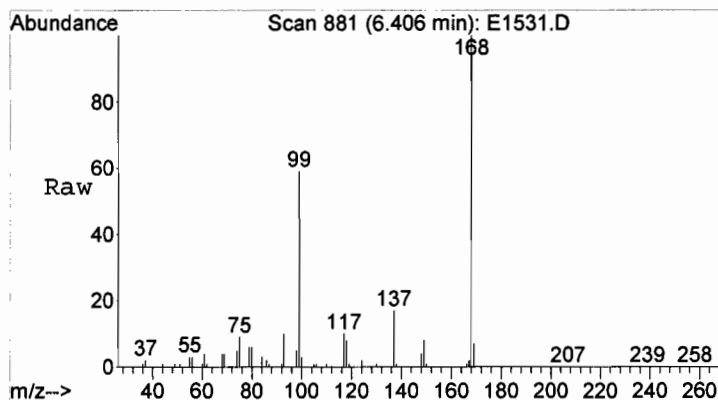
					Qvalue	
4) Vinyl chloride	2.24	62	80088	9.32	UG	99
6) Chloroethane	2.75	64	14291	3.58	UG	# 100
9) 1,1-Dichloroethene	3.71	96	34766	5.18	UG	# 100
18) 1,1-Dichloroethane	5.14	63	136219	9.15	UG	# 84
74) 1,2-Dichlorobenzene	13.90	146	6922	0.48	UG	# 81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1531.D
Acq On : 18 Sep 2017 14:44
Operator : BARBARA
Sample : MW-7, E17-07838-002, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 5 Sample Multiplier: 1

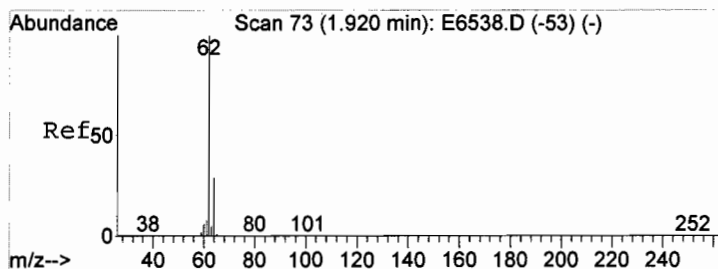
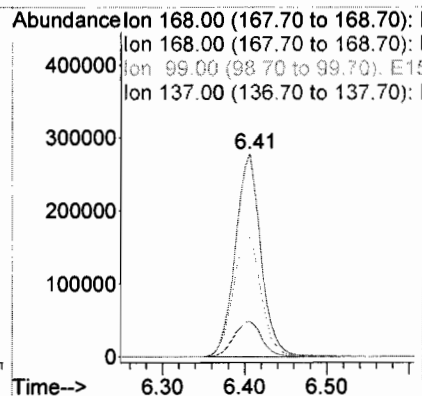
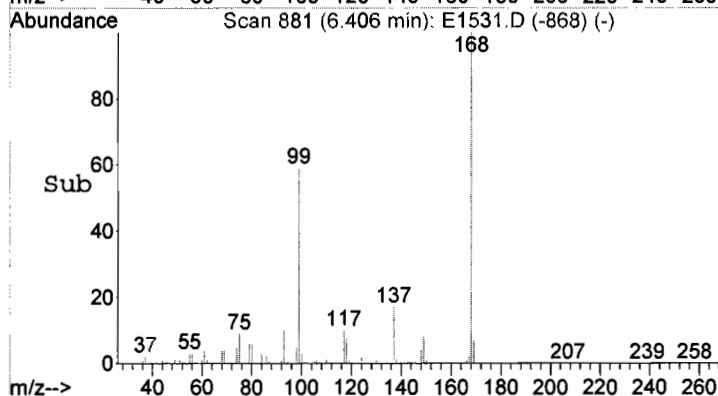
Quant Time: Sep 18 17:14:59 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





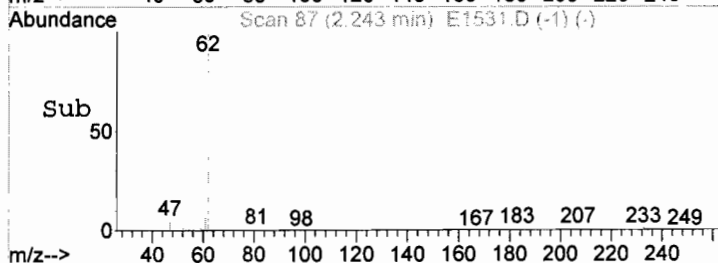
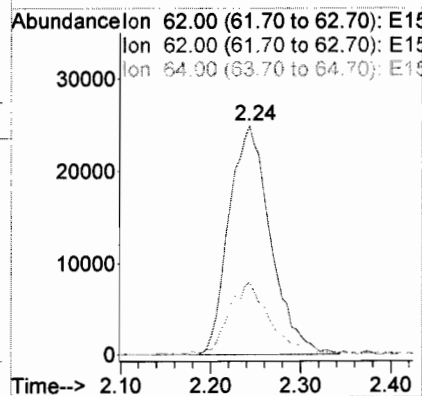
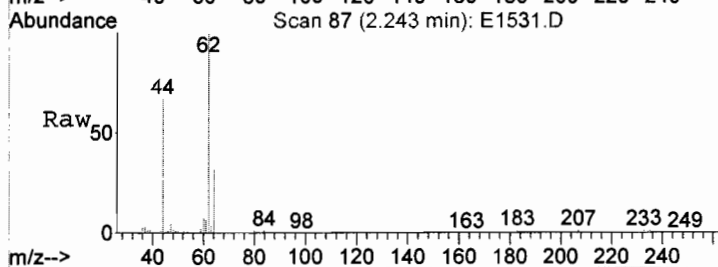
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

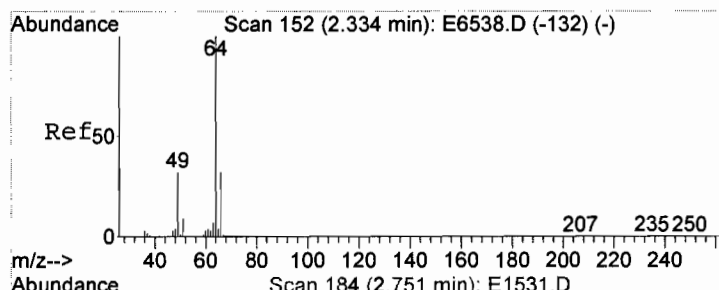
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#4
Vinyl chloride
Concen: 9.32 UG
RT: 2.24 min Scan# 87
Delta R.T. -0.00 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

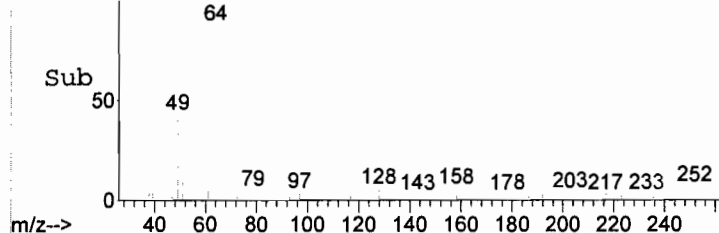
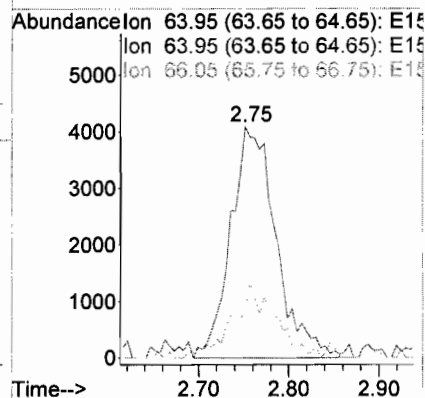
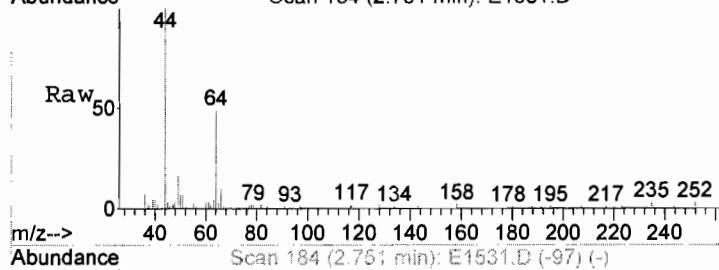
Tgt Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	30.8	26.1	39.1





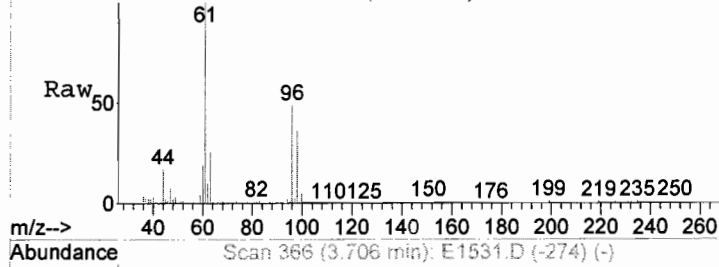
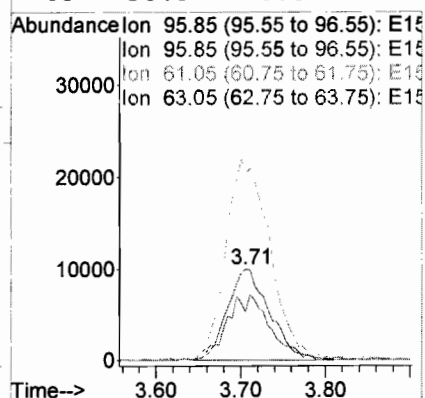
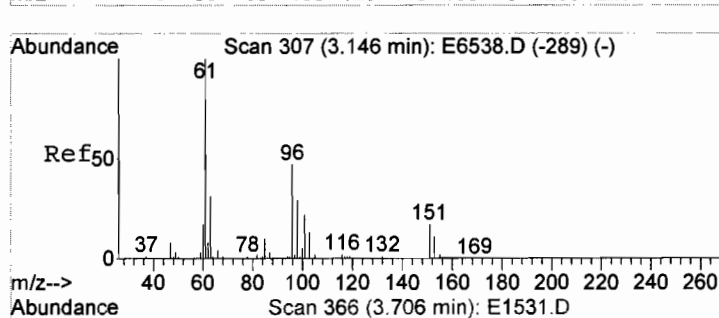
#6
Chloroethane
Concen: 3.58 UG
RT: 2.75 min Scan# 184
Delta R.T. -0.04 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

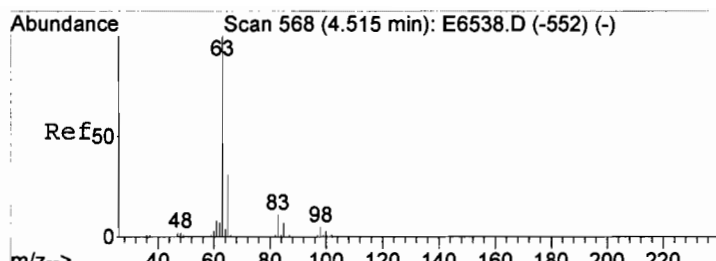
Tgt Ion	Ratio	Lower	Upper
64	100		
64	100.0	80.0	120.0
66	29.6	0.0	0.0#



#9
1,1-Dichloroethene
Concen: 5.18 UG
RT: 3.71 min Scan# 366
Delta R.T. -0.02 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

Tgt Ion	Ratio	Lower	Upper
96	100		
96	100.0	80.0	120.0
61	0.0	0.0	0.0
63	38.3	0.0	0.0#

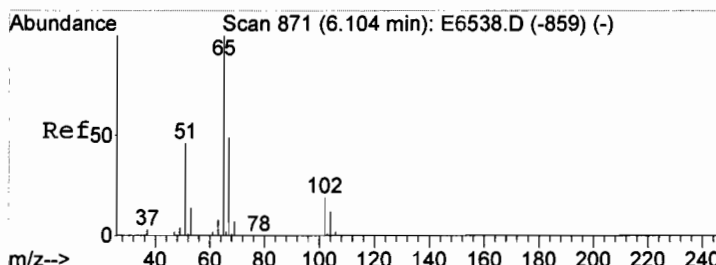
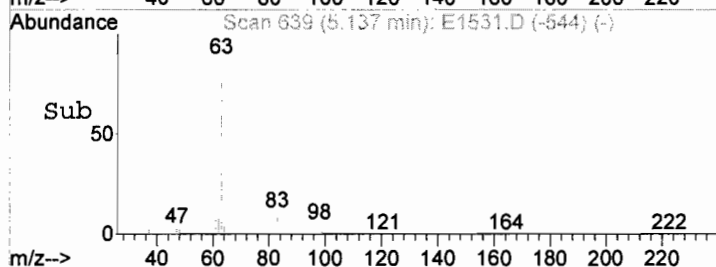
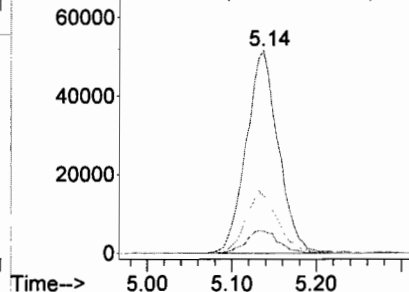




#18
1,1-Dichloroethane
Concen: 9.15 UG
RT: 5.14 min Scan# 639
Delta R.T. -0.00 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

Tgt Ion: 63 Resp: 136219
Ion Ratio Lower Upper
63 100
63 100.0 80.0 120.0
65 0.0 25.6 38.4#
83 0.0 11.3 16.9#

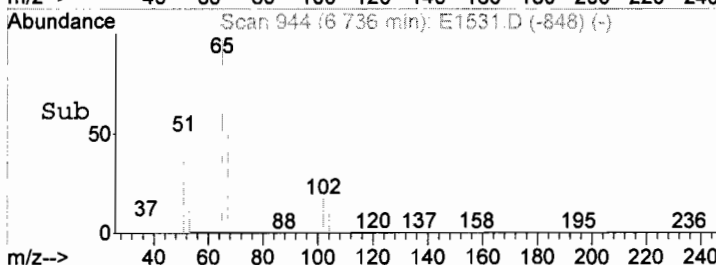
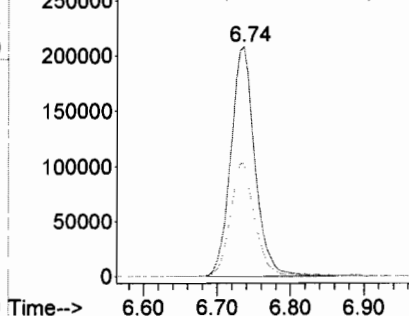
Abundance Ion 62.95 (62.65 to 63.65): E15
80000 Ion 62.95 (62.65 to 63.65): E15
Ion 64.95 (64.65 to 65.65): E15
Ion 83.10 (82.80 to 83.80): E15

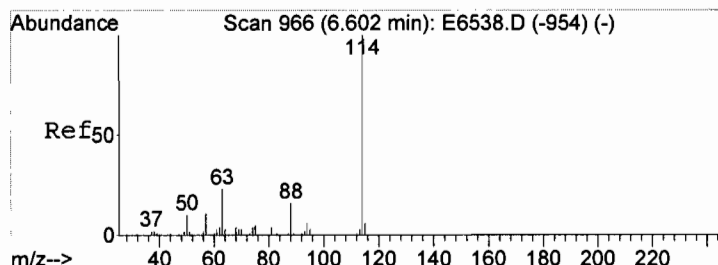


#30
1,2-Dichloroethane-d4
Concen: 46.83 UG
RT: 6.74 min Scan# 944
Delta R.T. 0.01 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

Tgt Ion: 65 Resp: 478514
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
67 49.9 43.2 64.8

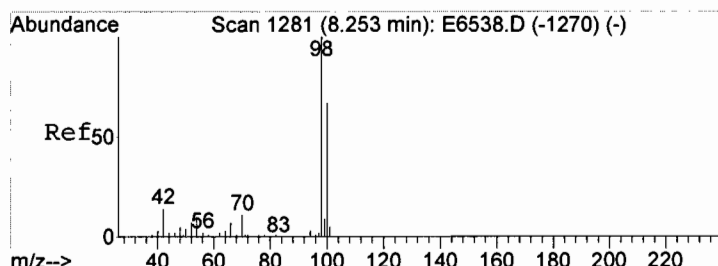
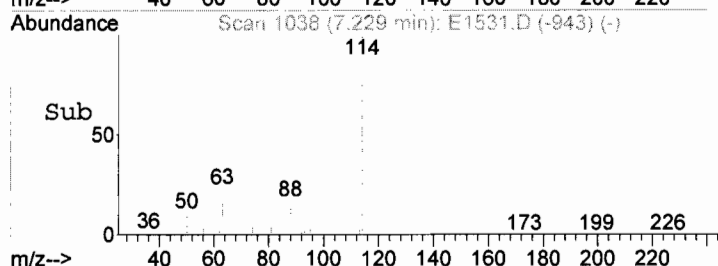
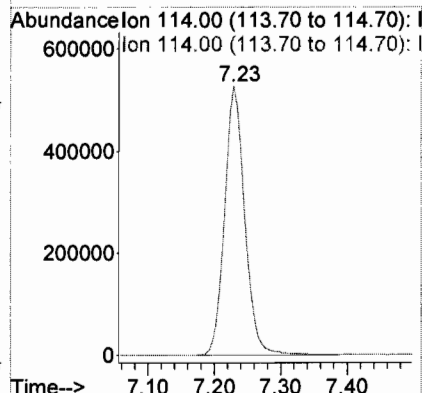
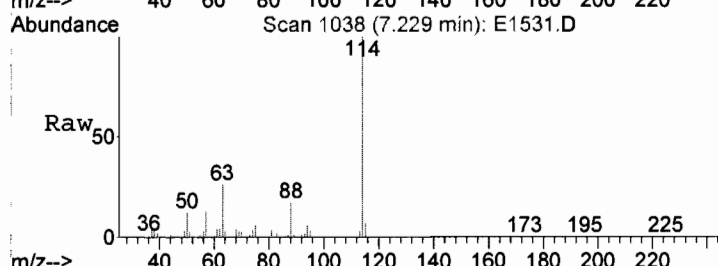
Abundance Ion 65.15 (64.85 to 65.85): E15
250000 Ion 65.15 (64.85 to 65.85): E15
Ion 67.15 (66.85 to 67.85): E15





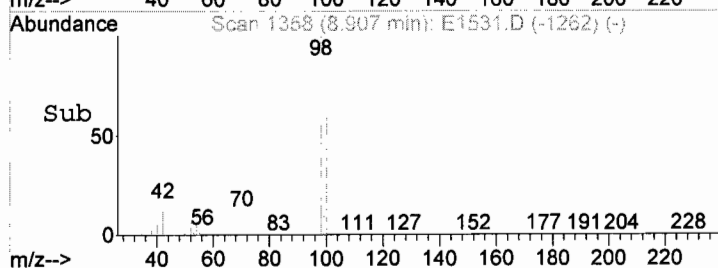
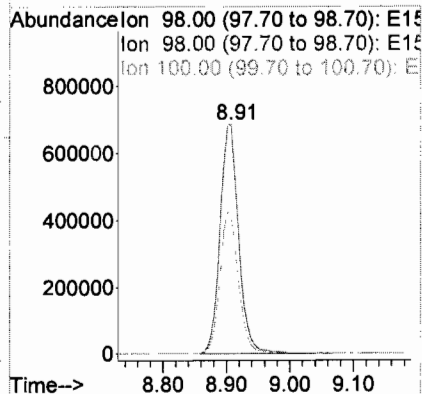
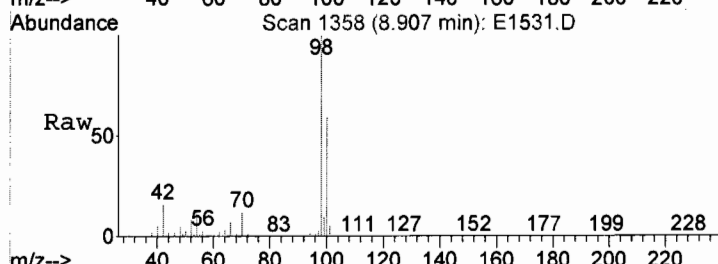
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. -0.00 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

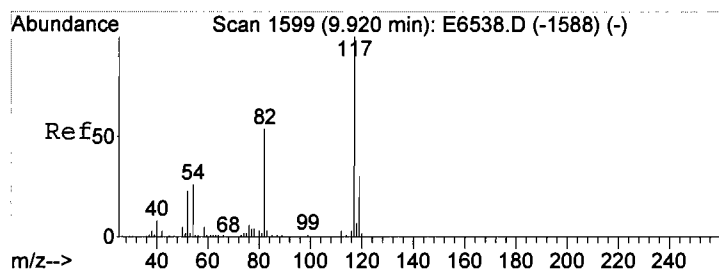
Tgt Ion: 114 Resp: 1110981
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 49.22 UG
RT: 8.91 min Scan# 1358
Delta R.T. 0.01 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

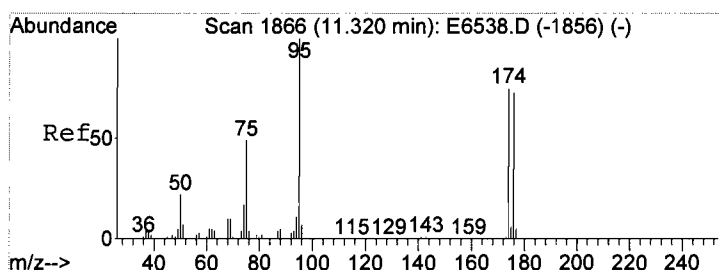
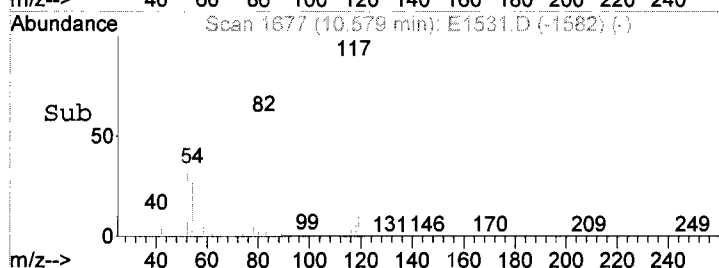
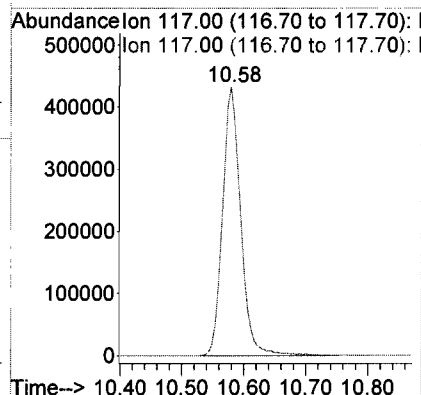
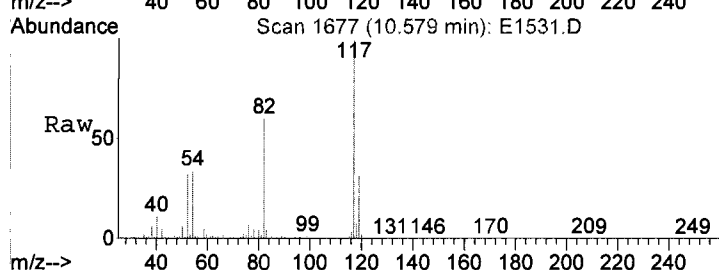
Tgt Ion: 98 Resp: 1398352
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.5 53.4 80.0





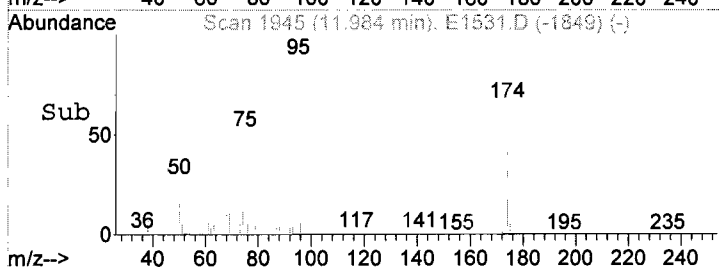
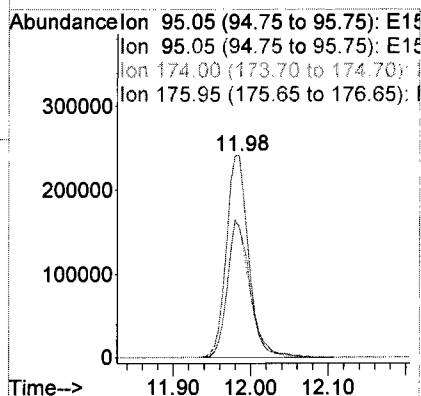
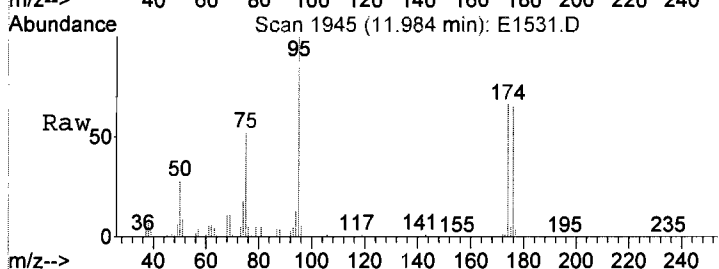
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

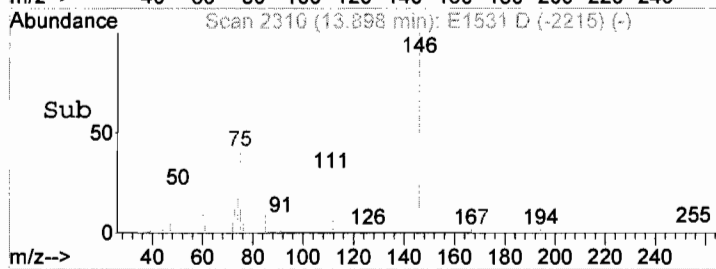
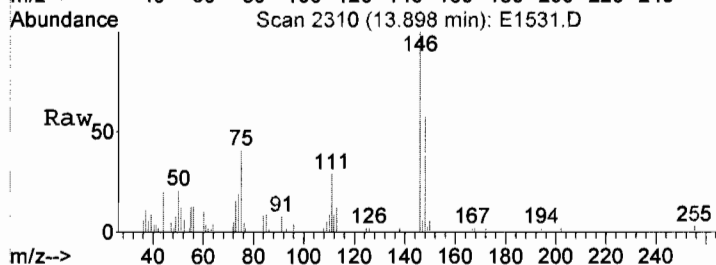
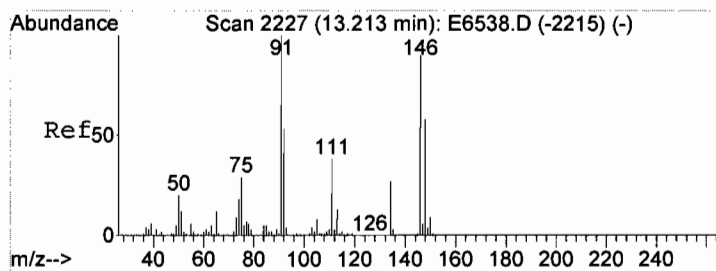
Tgt Ion: 117 Resp: 875258
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 47.37 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1531.D
Acq: 18 Sep 2017 14:44

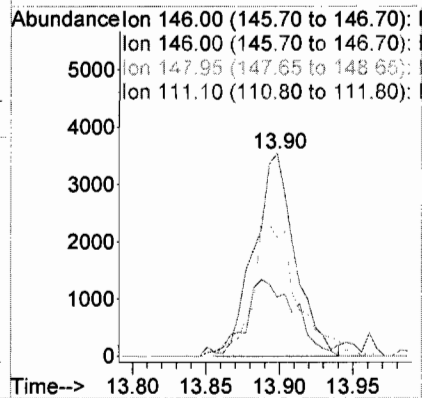
Tgt Ion: 95 Resp: 486870
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 66.6 62.9 94.3
176 67.9 60.5 90.7





#74
 1,2-Dichlorobenzene
 Concen: 0.48 UG
 RT: 13.90 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: E1531.D
 Acq: 18 Sep 2017 14:44

Tgt Ion:146 Resp: 6922
 Ion Ratio Lower Upper
 146 100
 146 100.0 80.0 120.0
 148 0.0 0.0 0.0
 111 0.0 33.2 49.8#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1531.D
Acq On : 18 Sep 2017 14:44
Operator : BARBARA
Sample : MW-7, E17-07838-002, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.1
Stop Thrs : 0.1
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.243	78	87	114	rVB	43904	163600	4.06%	0.965%
2	2.757	175	185	202	rVB4	11324	47291	1.17%	0.279%
3	3.711	351	367	399	rVB3	58590	236202	5.86%	1.393%
4	3.978	408	418	434	rVB8	12227	59267	1.47%	0.349%
5	5.137	622	639	655	rBV2	102773	287836	7.15%	1.697%
6	5.761	745	758	773	rBV2	13761	52155	1.29%	0.308%
7	6.406	866	881	902	rBV	857750	2000655	49.67%	11.798%
8	6.731	930	943	967	rBV	595562	1379331	34.25%	8.134%
9	7.229	1027	1038	1068	rBV	1359232	2908436	72.21%	17.151%
10	8.902	1345	1357	1396	rBV	1906639	4027514	100.00%	23.750%
11	10.579	1663	1677	1719	rBV2	1551996	3247001	80.62%	19.147%
12	11.979	1933	1944	1979	rBV	1242392	2508380	62.28%	14.792%
13	13.893	2300	2309	2318	rVB5	17895	40542	1.01%	0.239%

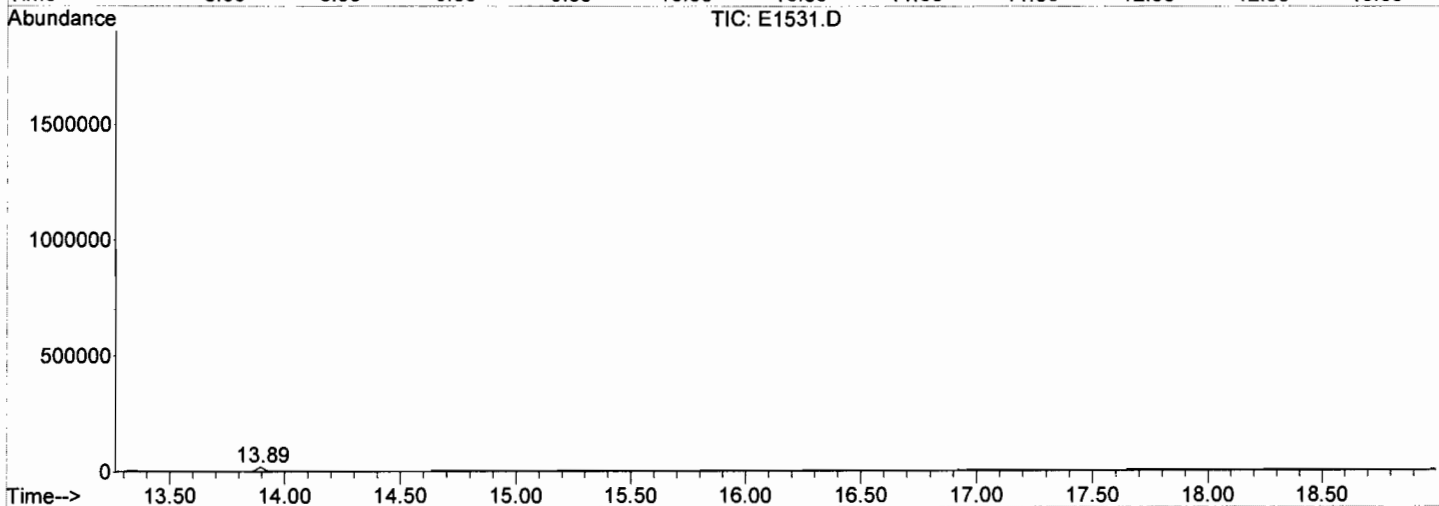
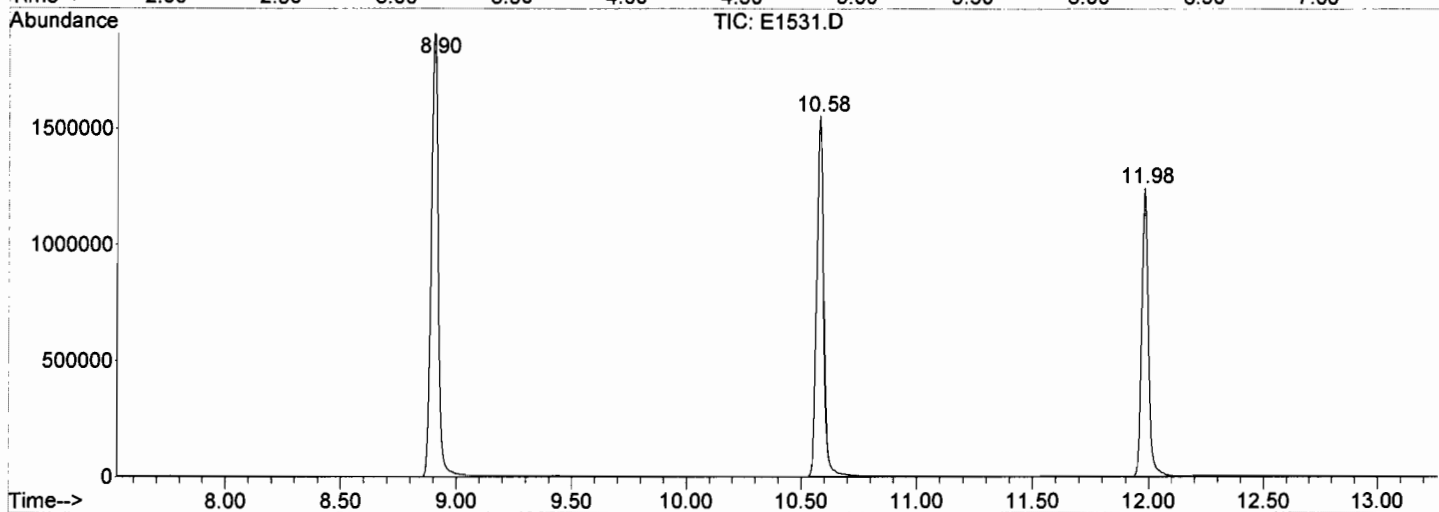
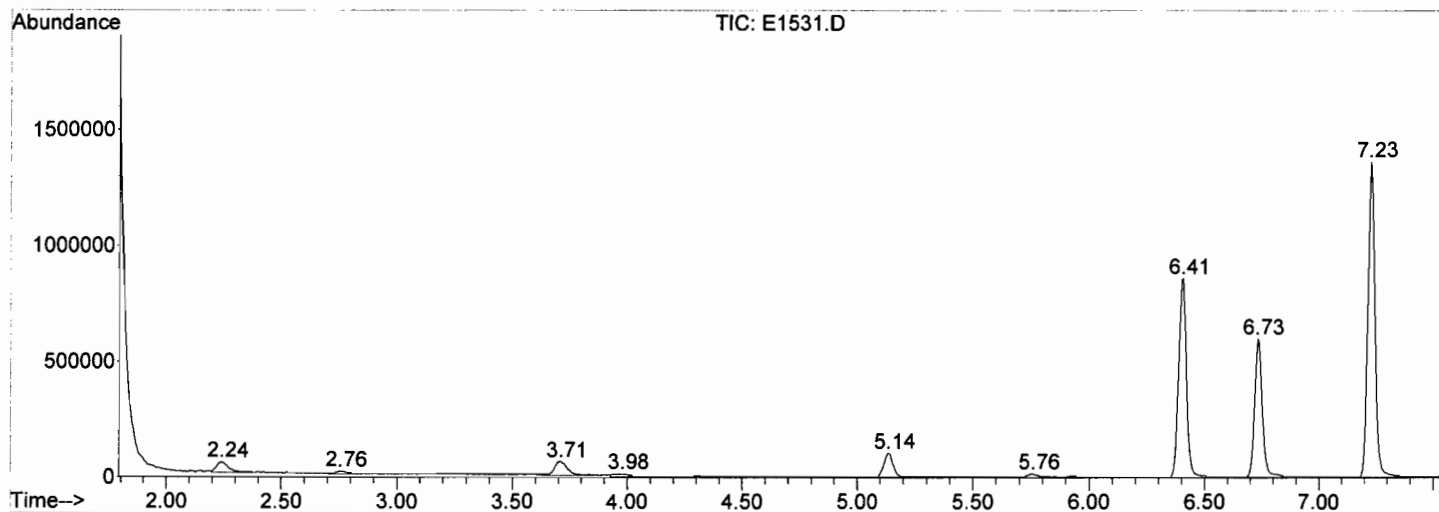
Sum of corrected areas: 16958210

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1531.D
 Acq On : 18 Sep 2017 14:44
 Operator : BARBARA
 Sample : MW-7, E17-07838-002, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1532.D
Acq On : 18 Sep 2017 15:14
Operator : BARBARA
Sample : FIELD BLANK, E17-07838-003, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 17:15:44 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	614544	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1150645	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	914676	50.00	UG	0.00

System Monitoring Compounds

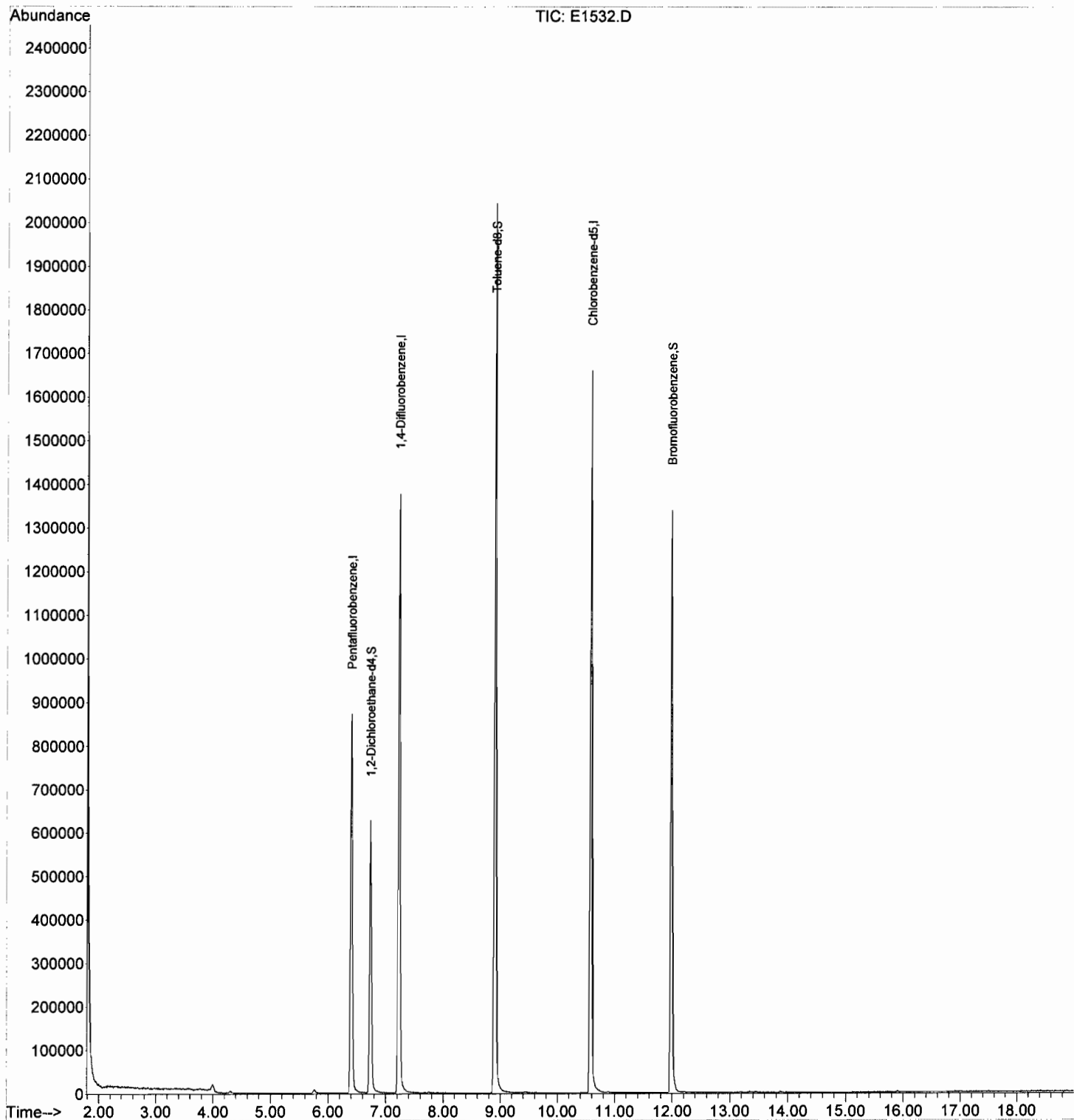
30) 1,2-Dichloroethane-d4	6.73	65	513472	49.14	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	98.28%
41) Toluene-d8	8.90	98	1445028	49.11	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.22%
59) Bromofluorobenzene	11.98	95	517168	48.15	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	96.30%

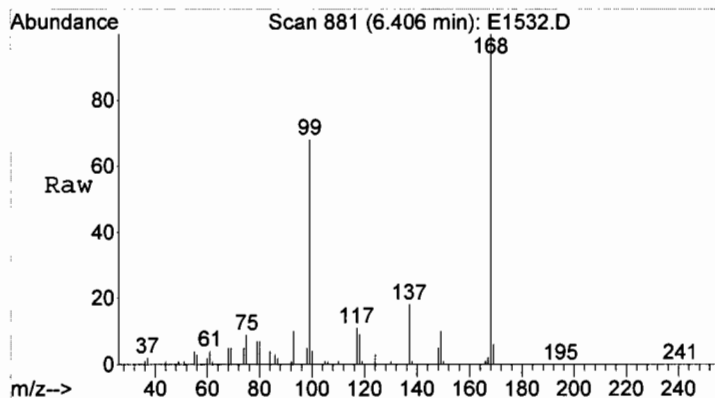
Target Compounds	Qvalue
------------------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1532.D
Acq On : 18 Sep 2017 15:14
Operator : BARBARA
Sample : FIELD BLANK, E17-07838-003, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 6 Sample Multiplier: 1

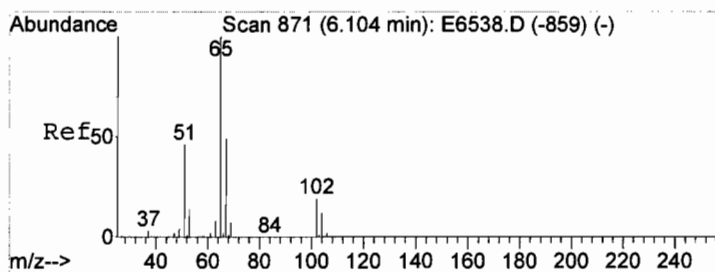
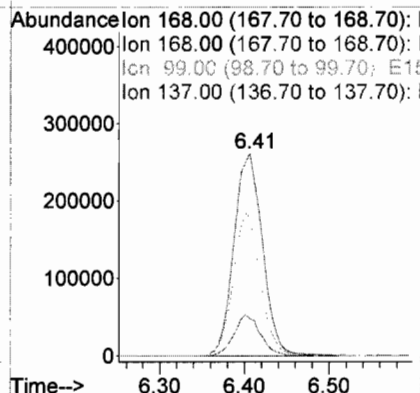
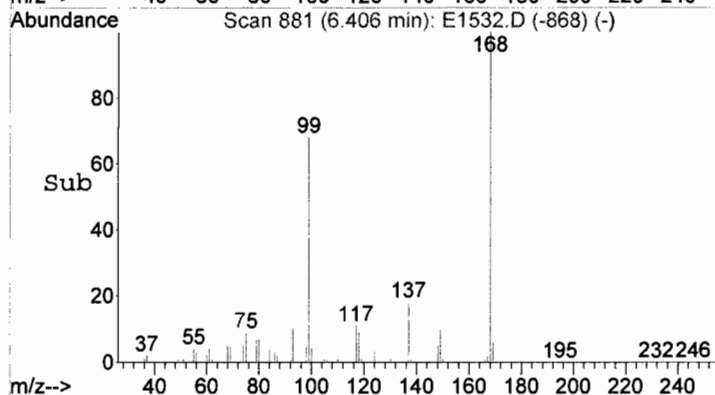
Quant Time: Sep 18 17:15:44 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





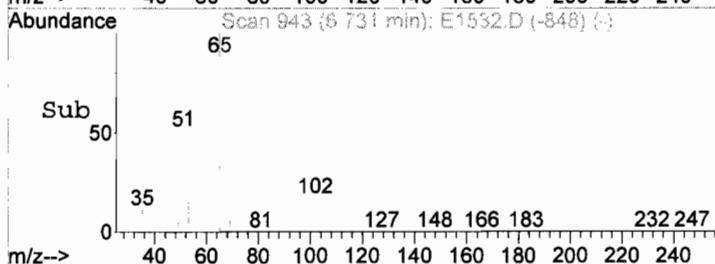
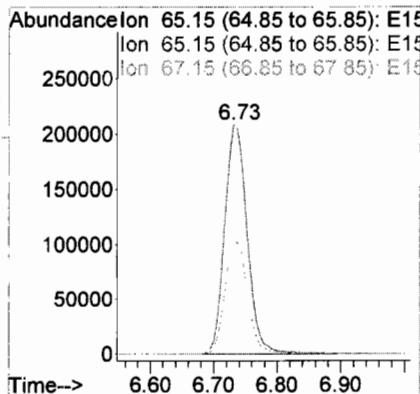
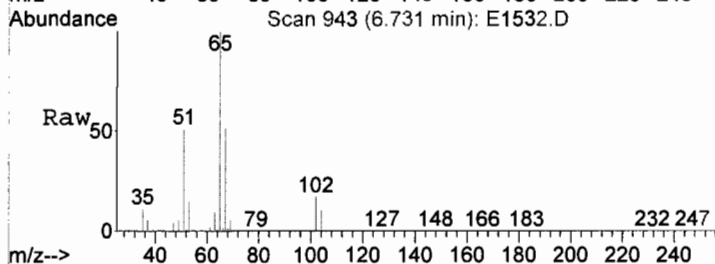
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1532.D
Acq: 18 Sep 2017 15:14

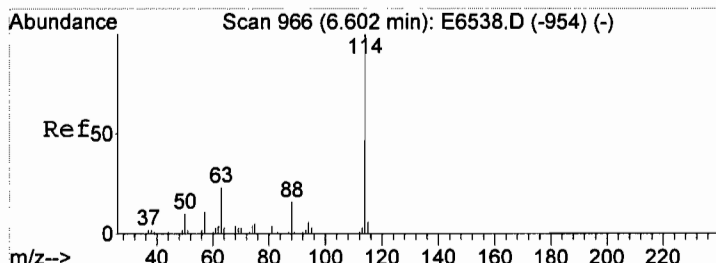
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	67.3	0.0	0.0#
137	19.0	0.0	0.0#



#30
1,2-Dichloroethane-d4
Concen: 49.14 UG
RT: 6.73 min Scan# 943
Delta R.T. -0.00 min
Lab File: E1532.D
Acq: 18 Sep 2017 15:14

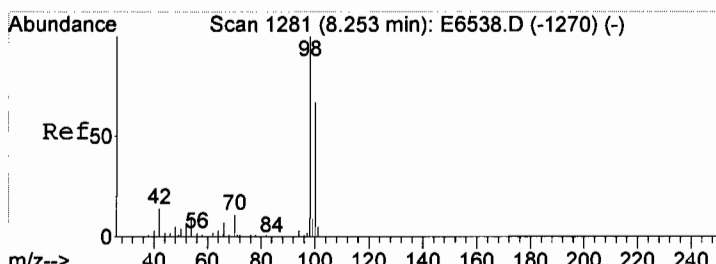
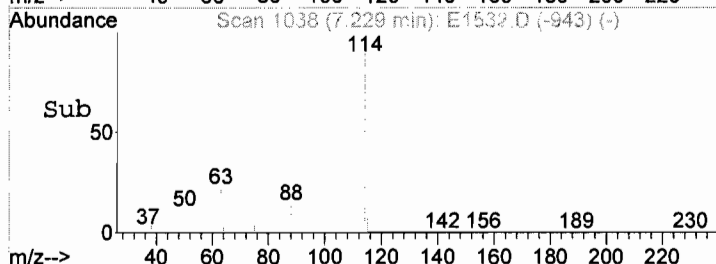
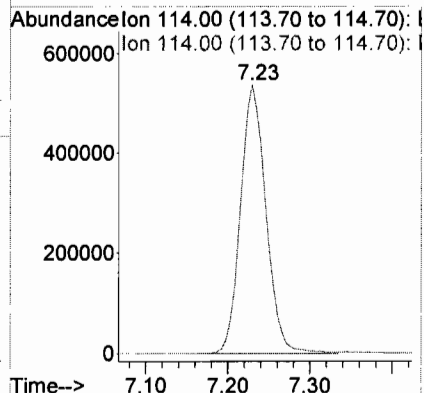
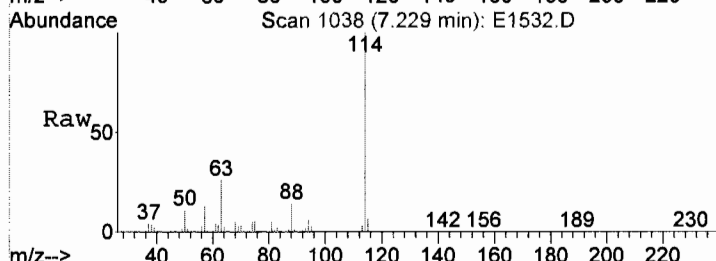
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.4	43.2	64.8





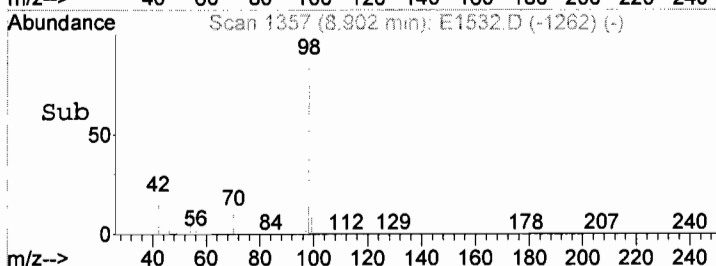
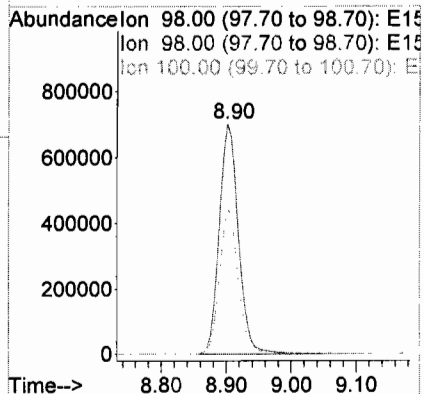
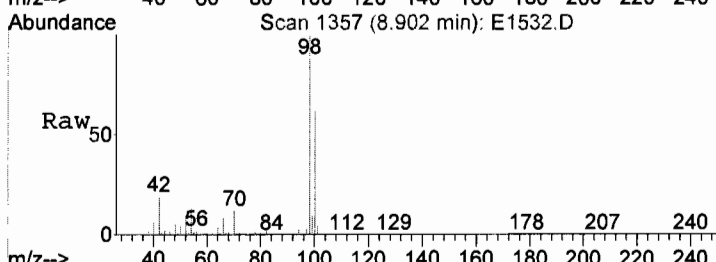
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. -0.00 min
Lab File: E1532.D
Acq: 18 Sep 2017 15:14

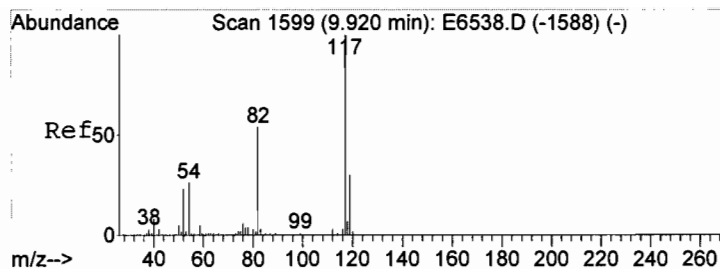
Tgt Ion: 114 Resp: 1150645
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 49.11 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1532.D
Acq: 18 Sep 2017 15:14

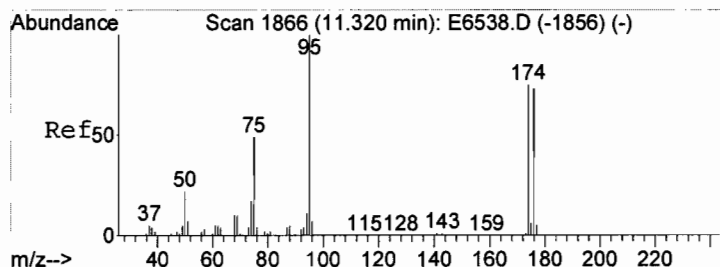
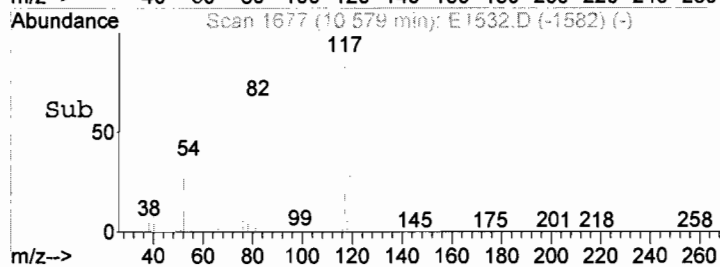
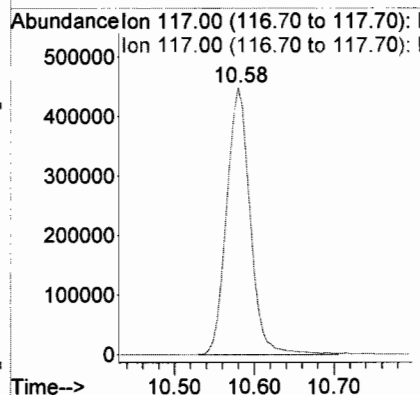
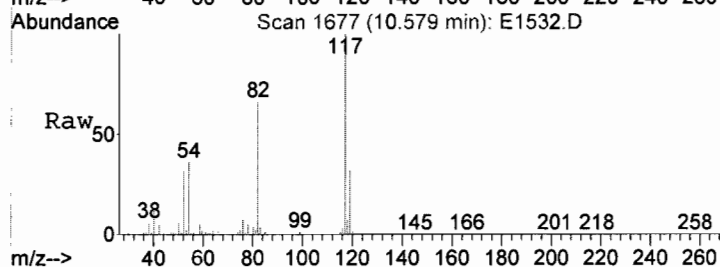
Tgt Ion: 98 Resp: 1445028
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.8 53.4 80.0





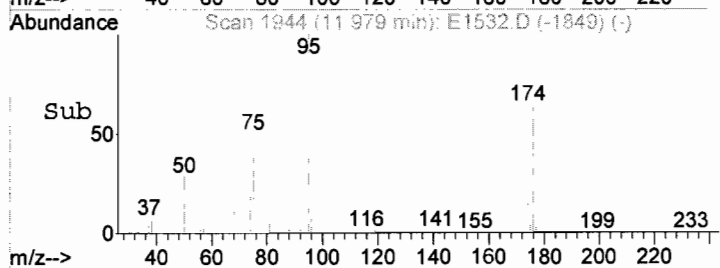
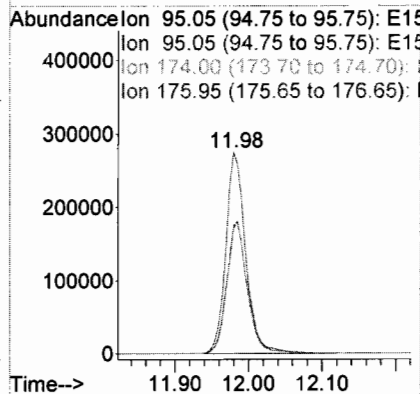
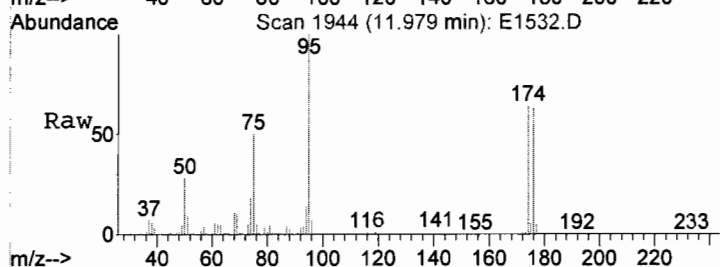
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1532.D
Acq: 18 Sep 2017 15:14

Tgt Ion: 117 Resp: 914676
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 48.15 UG
RT: 11.98 min Scan# 1944
Delta R.T. -0.00 min
Lab File: E1532.D
Acq: 18 Sep 2017 15:14

Tgt Ion: 95 Resp: 517168
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 67.2 62.9 94.3
176 68.3 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1532.D
Acq On : 18 Sep 2017 15:14
Operator : BARBARA
Sample : FIELD BLANK, E17-07838-003, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

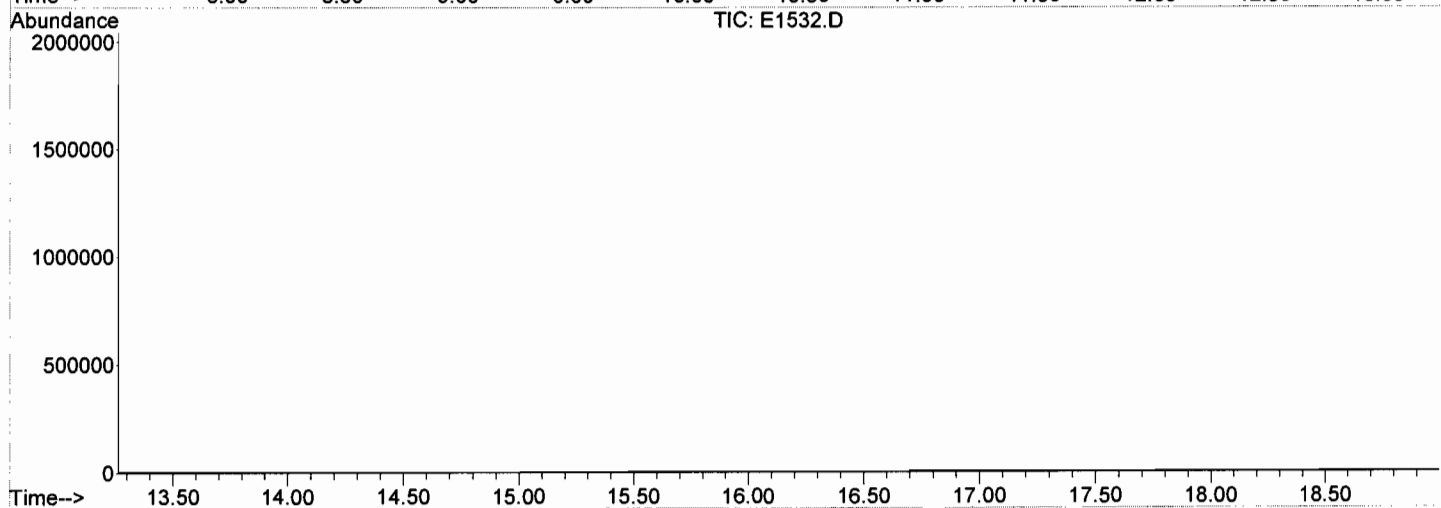
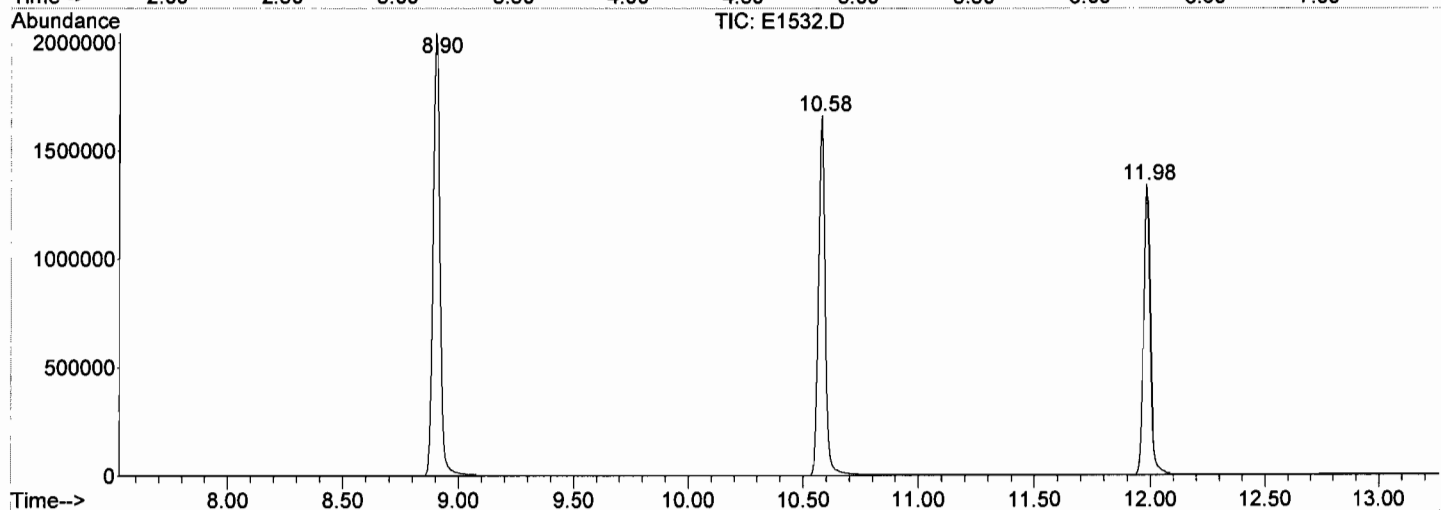
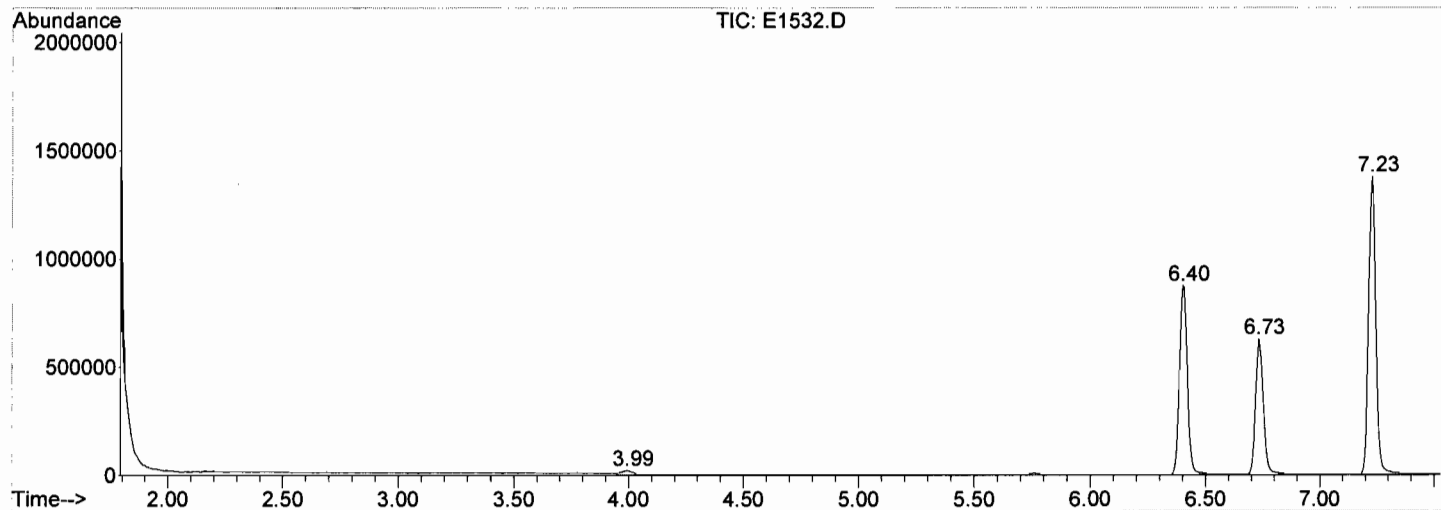
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.994	412	421	443	rVB3	19241	72662	1.73%	0.430%
2	6.401	868	880	905	rBV2	872576	2068303	49.29%	12.251%
3	6.731	929	943	978	rBV	625532	1485044	35.39%	8.796%
4	7.229	1025	1038	1084	rBV	1376900	3038280	72.40%	17.996%
5	8.902	1346	1357	1397	rBV	2042473	4196232	100.00%	24.855%
6	10.579	1666	1677	1723	rBV	1661015	3375944	80.45%	19.996%
7	11.979	1934	1944	1972	rBV	1340128	2646718	63.07%	15.677%

Sum of corrected areas: 16883183

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1532.D
Acq On : 18 Sep 2017 15:14
Operator : BARBARA
Sample : FIELD BLANK, E17-07838-003, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1533.D
Acq On : 18 Sep 2017 15:44
Operator : BARBARA
Sample : MW-14, E17-07838-004, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 17:17:09 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	602727	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1094976	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	873623	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	504472	49.22	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	98.44%
41) Toluene-d8	8.90	98	1367098	48.82	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.64%
59) Bromofluorobenzene	11.98	95	478553	46.65	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.30%

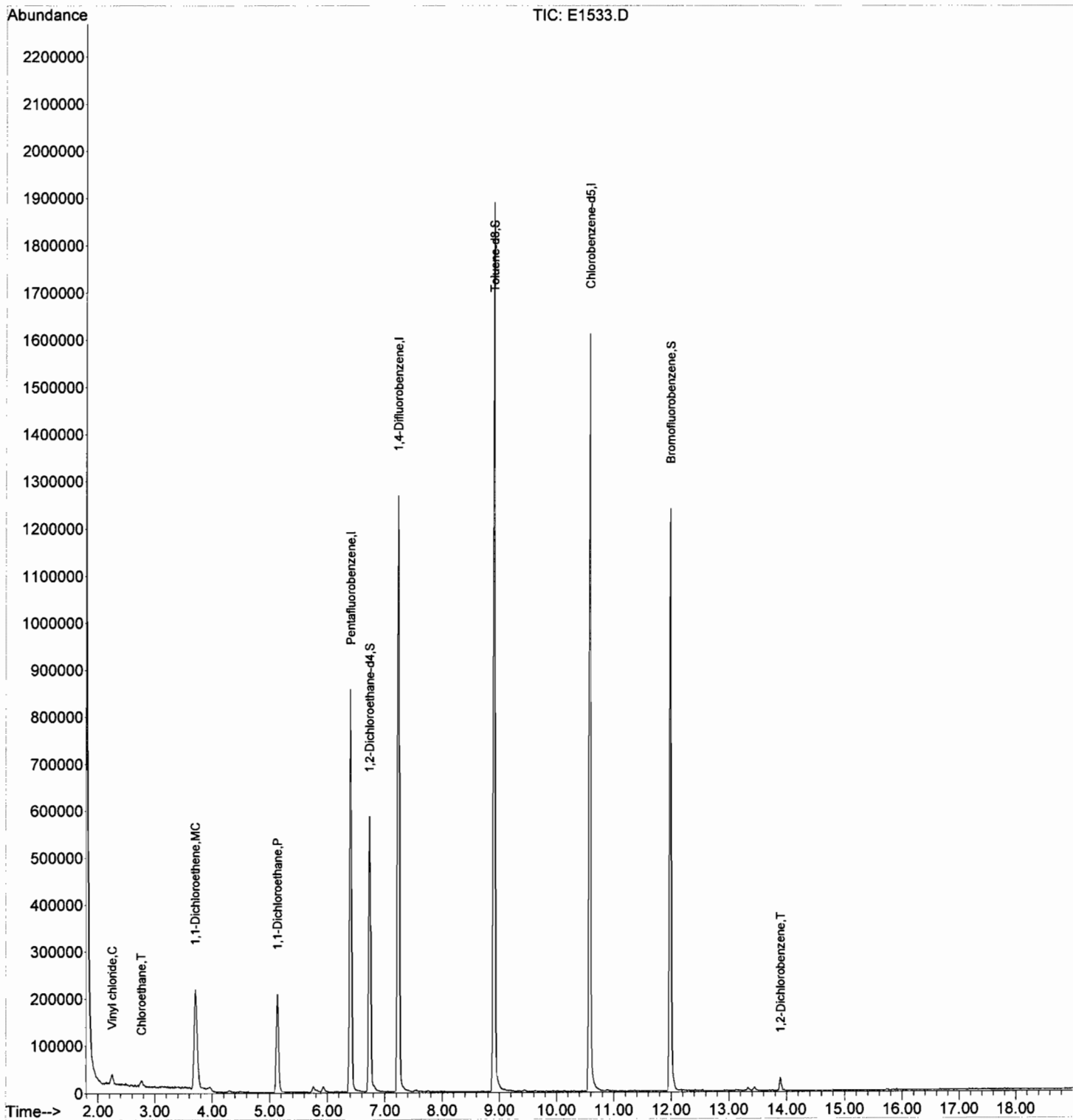
Target Compounds

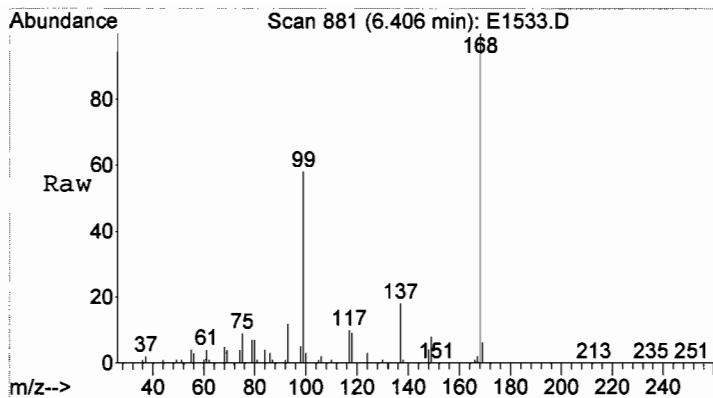
						Qvalue
4) Vinyl chloride	2.25	62	33712	3.91	UG	100
6) Chloroethane	2.76	64	17370	4.33	UG	# 100
9) 1,1-Dichloroethene	3.71	96	125676	18.66	UG	# 100
18) 1,1-Dichloroethane	5.14	63	283302	18.97	UG	# 96
74) 1,2-Dichlorobenzene	13.90	146	12108	0.85	UG	# 81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1533.D
Acq On : 18 Sep 2017 15:44
Operator : BARBARA
Sample : MW-14, E17-07838-004, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 7 Sample Multiplier: 1

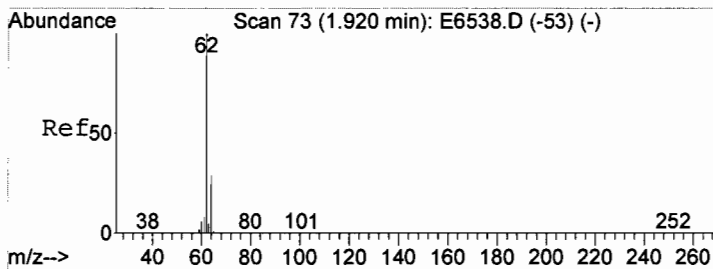
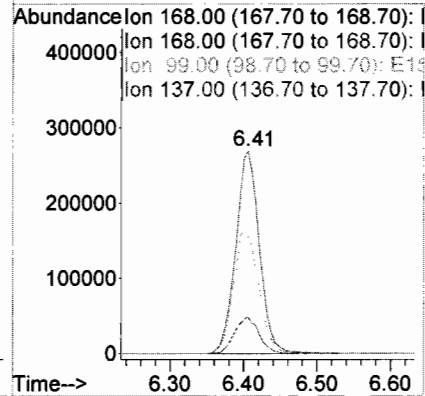
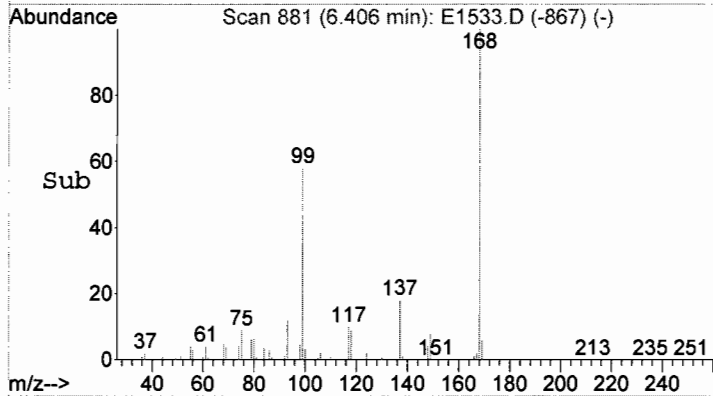
Quant Time: Sep 18 17:17:09 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





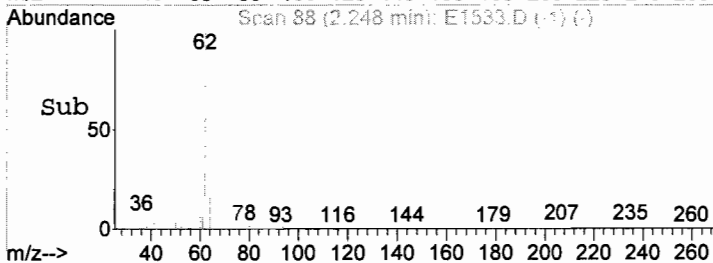
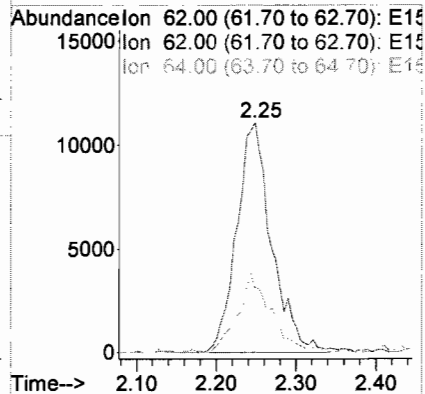
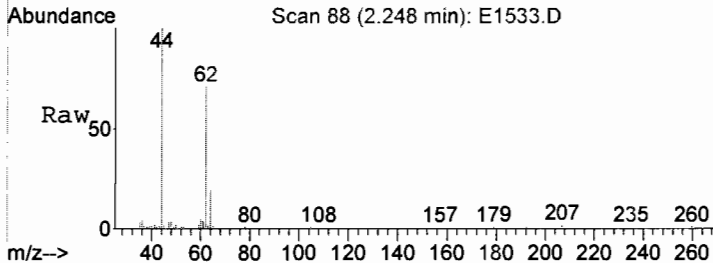
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

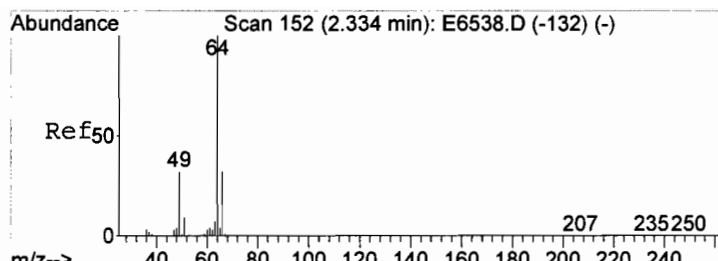
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	65.8	0.0	0.0#
137	18.8	0.0	0.0#



#4
Vinyl chloride
Concen: 3.91 UG
RT: 2.25 min Scan# 88
Delta R.T. 0.01 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

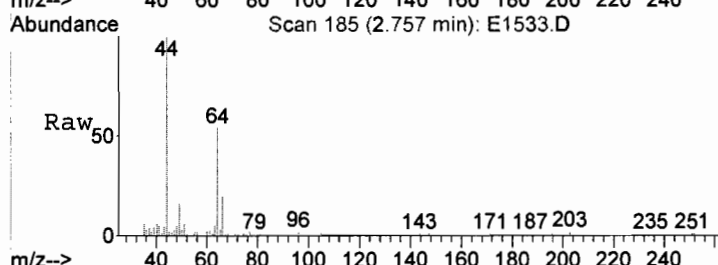
Tgt Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	32.8	26.1	39.1



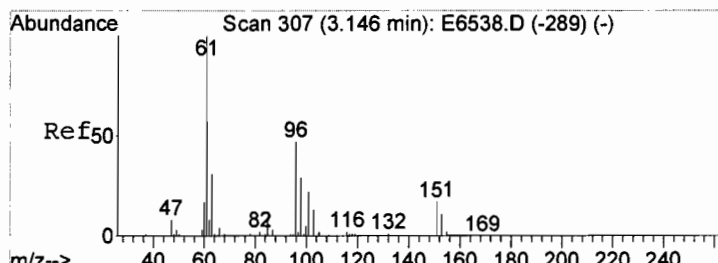
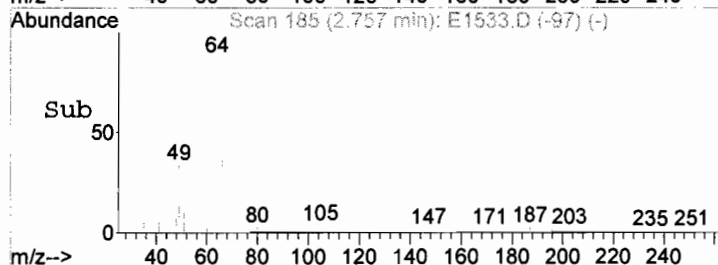
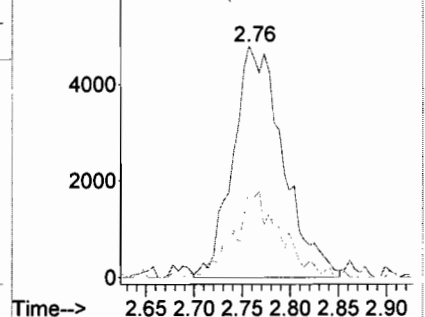


#6
Chloroethane
Concen: 4.33 UG
RT: 2.76 min Scan# 185
Delta R.T. -0.04 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

Tgt Ion: 64 Resp: 17370
Ion Ratio Lower Upper
64 100
64 100.0 80.0 120.0
66 34.3 0.0 0.0#

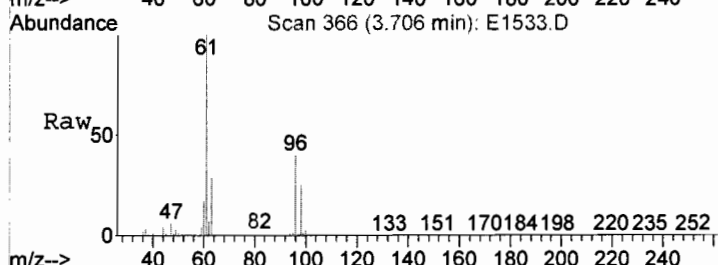


Abundance Ion 63.95 (63.65 to 64.65): E15
Ion 63.95 (63.65 to 64.65): E15
Ion 66.05 (65.75 to 66.75): E15

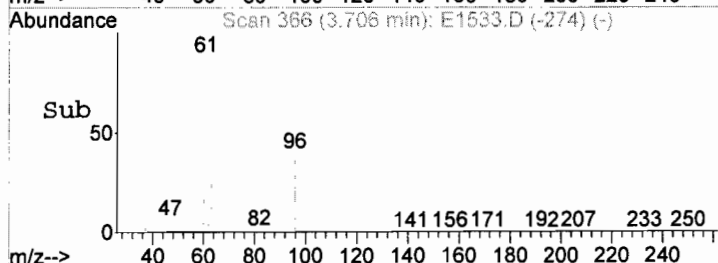
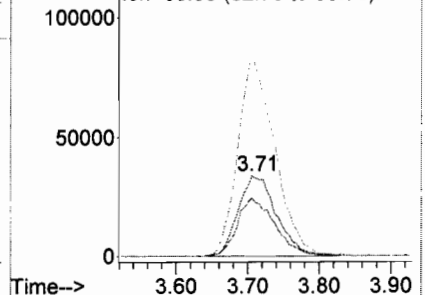


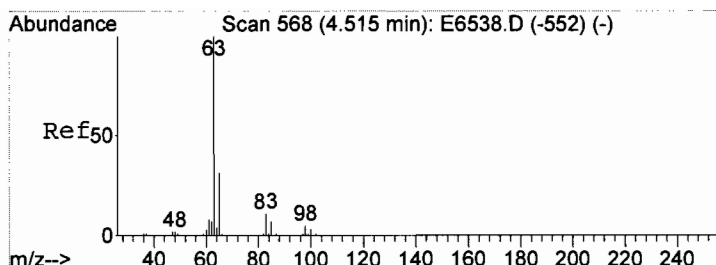
#9
1,1-Dichloroethene
Concen: 18.66 UG
RT: 3.71 min Scan# 366
Delta R.T. -0.02 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

Tgt Ion: 96 Resp: 125676
Ion Ratio Lower Upper
96 100
96 100.0 80.0 120.0
61 0.0 0.0 0.0
63 0.0 0.0 0.0



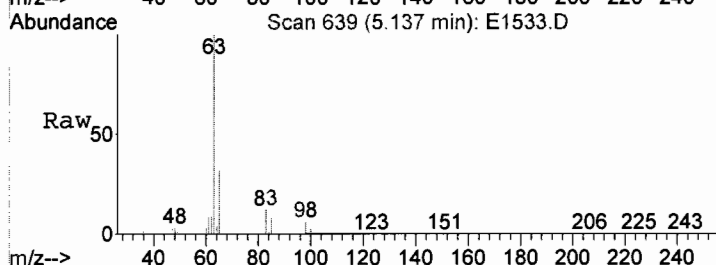
Abundance Ion 95.85 (95.55 to 96.55): E15
Ion 95.85 (95.55 to 96.55): E15
Ion 61.05 (60.75 to 61.75): E15
Ion 63.05 (62.75 to 63.75): E15



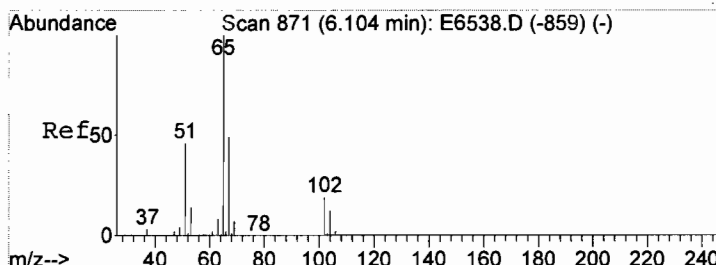
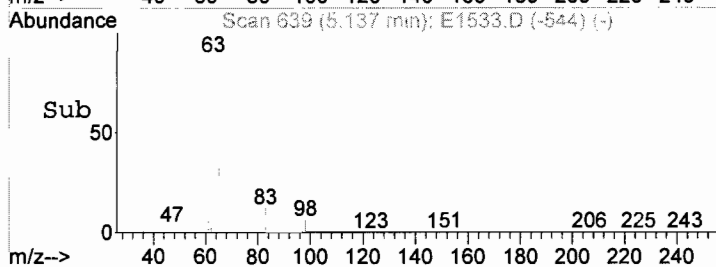
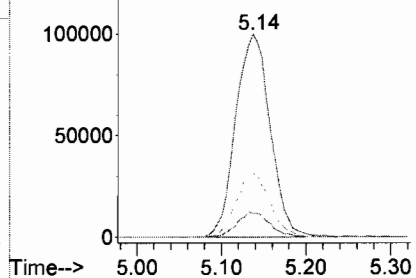


#18
 1,1-Dichloroethane
 Concen: 18.97 UG
 RT: 5.14 min Scan# 639
 Delta R.T. -0.00 min
 Lab File: E1533.D
 Acq: 18 Sep 2017 15:44

Tgt Ion: 63 Resp: 283302
 Ion Ratio Lower Upper
 63 100
 63 100.0 80.0 120.0
 65 30.8 25.6 38.4
 83 0.0 11.3 16.9#

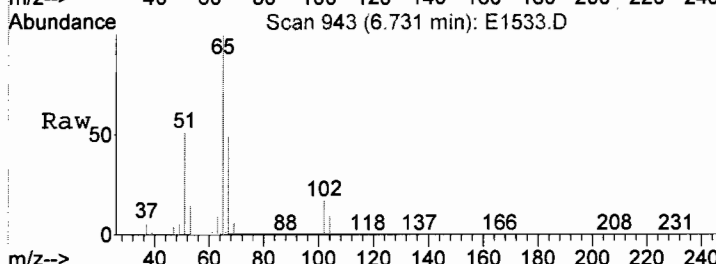


Abundance Ion 62.95 (62.65 to 63.65): E15
 Ion 62.95 (62.65 to 63.65): E15
 Ion 64.95 (64.65 to 65.65): E15
 Ion 83.10 (82.80 to 83.80): E15

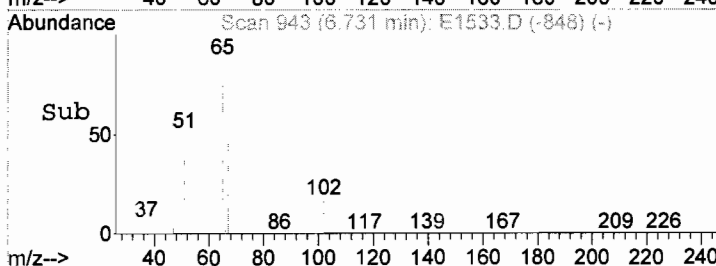
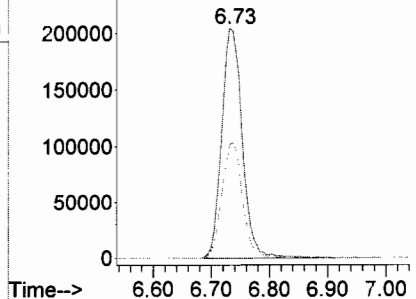


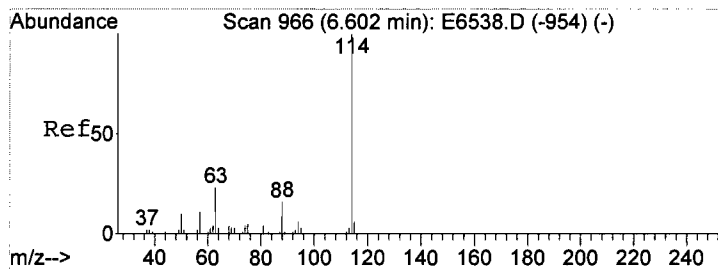
#30
 1,2-Dichloroethane-d4
 Concen: 49.22 UG
 RT: 6.73 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: E1533.D
 Acq: 18 Sep 2017 15:44

Tgt Ion: 65 Resp: 504472
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 67 50.5 43.2 64.8



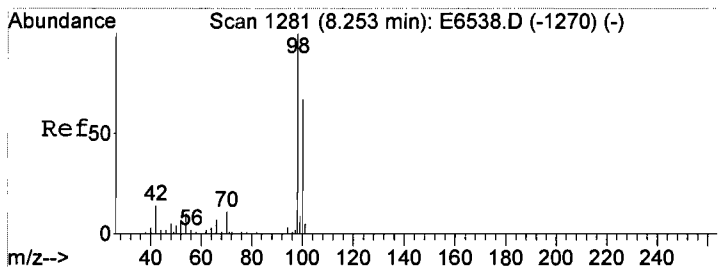
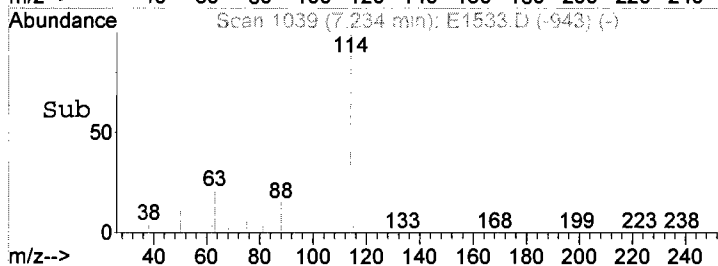
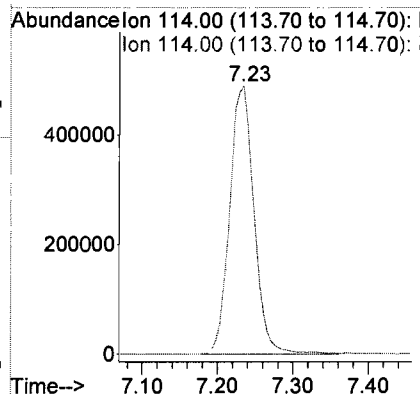
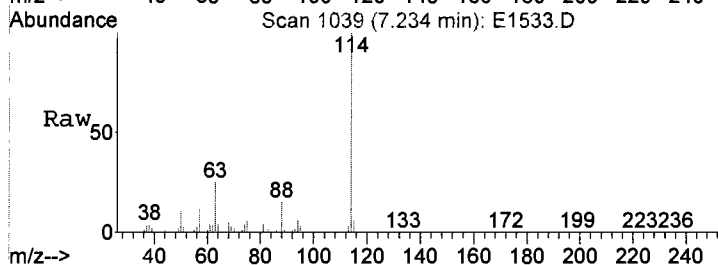
Abundance Ion 65.15 (64.85 to 65.85): E15
 Ion 65.15 (64.85 to 65.85): E15
 Ion 67.15 (66.85 to 67.85): E15





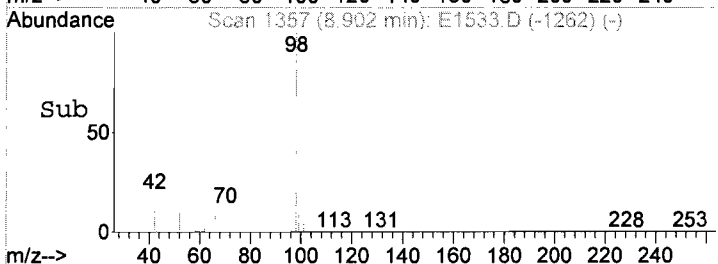
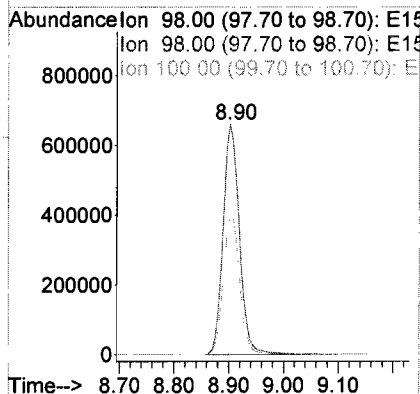
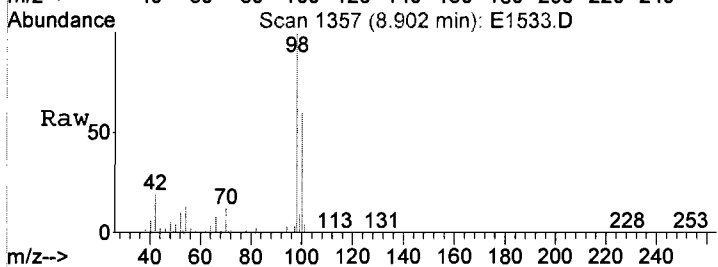
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1039
Delta R.T. 0.01 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

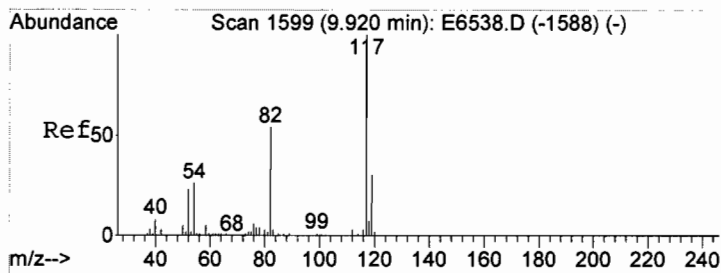
Tgt Ion: 114 Resp: 1094976
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 48.82 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

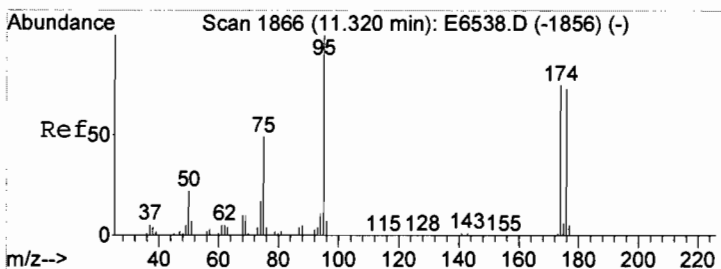
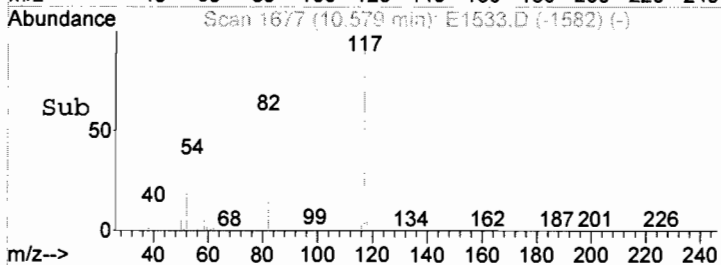
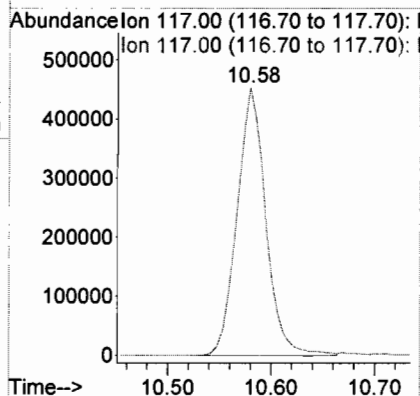
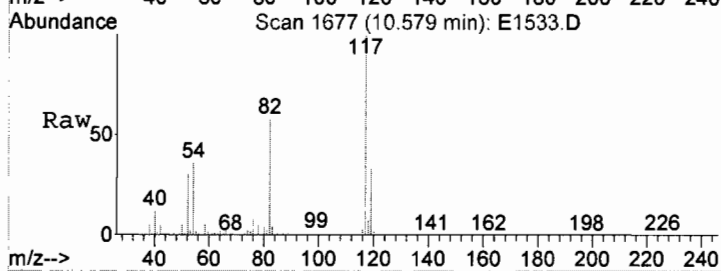
Tgt Ion: 98 Resp: 1367098
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.3 53.4 80.0





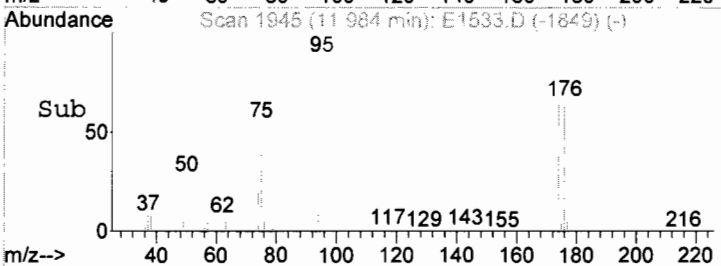
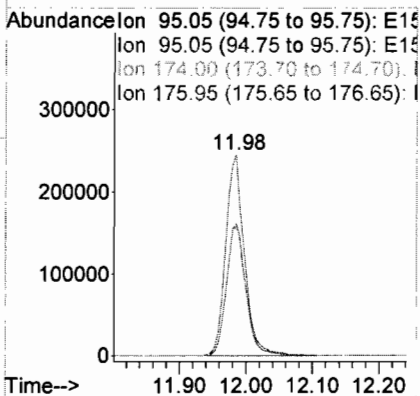
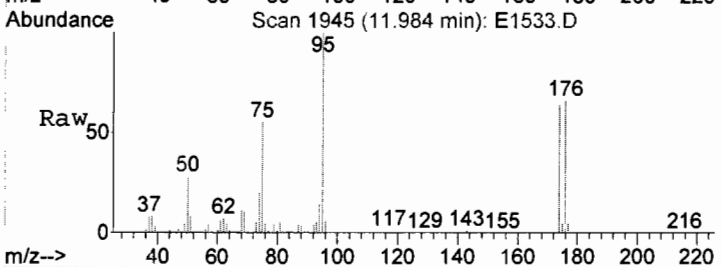
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

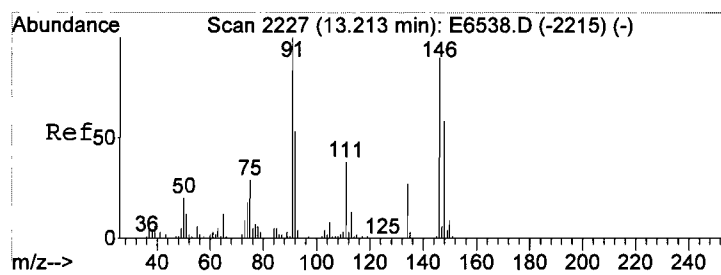
Tgt Ion: 117 Resp: 873623
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 46.65 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1533.D
Acq: 18 Sep 2017 15:44

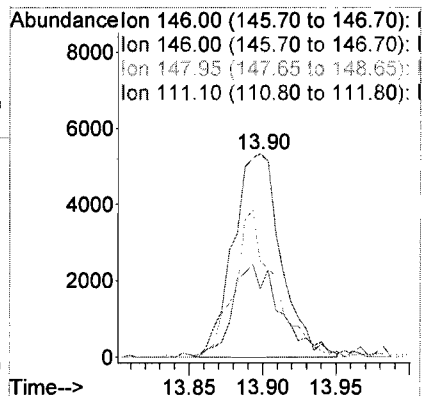
Tgt Ion: 95 Resp: 478553
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 67.4 62.9 94.3
176 68.7 60.5 90.7





#74
 1,2-Dichlorobenzene
 Concen: 0.85 UG
 RT: 13.90 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: E1533.D
 Acq: 18 Sep 2017 15:44

Tgt Ion:	146	Resp:	12108
Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	0.0	0.0	0.0
111	0.0	33.2	49.8#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1533.D
Acq On : 18 Sep 2017 15:44
Operator : BARBARA
Sample : MW-14, E17-07838-004, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.248	79	88	111	rVB3	22466	76854	1.93%	0.431%
2	2.762	177	186	211	rVB3	15033	61505	1.55%	0.345%
3	3.706	353	366	402	rVV2	213032	830332	20.90%	4.660%
4	3.963	402	415	436	rVB2	11698	60851	1.53%	0.342%
5	5.137	623	639	659	rBV2	207821	591308	14.88%	3.319%
6	5.756	747	757	781	rBV3	12470	47031	1.18%	0.264%
7	6.401	868	880	917	rBV2	857102	2024039	50.94%	11.360%
8	6.731	928	943	974	rBV	585332	1477435	37.18%	8.292%
9	7.229	1026	1038	1070	rBV2	1266839	2878040	72.43%	16.153%
10	8.902	1346	1357	1391	rBV	1889160	3973650	100.00%	22.302%
11	10.579	1666	1677	1714	rBV	1612012	3243893	81.64%	18.206%
12	11.984	1931	1945	1971	rBV	1241244	2489669	62.65%	13.973%
13	13.893	2296	2309	2319	rBV4	27135	63054	1.59%	0.354%

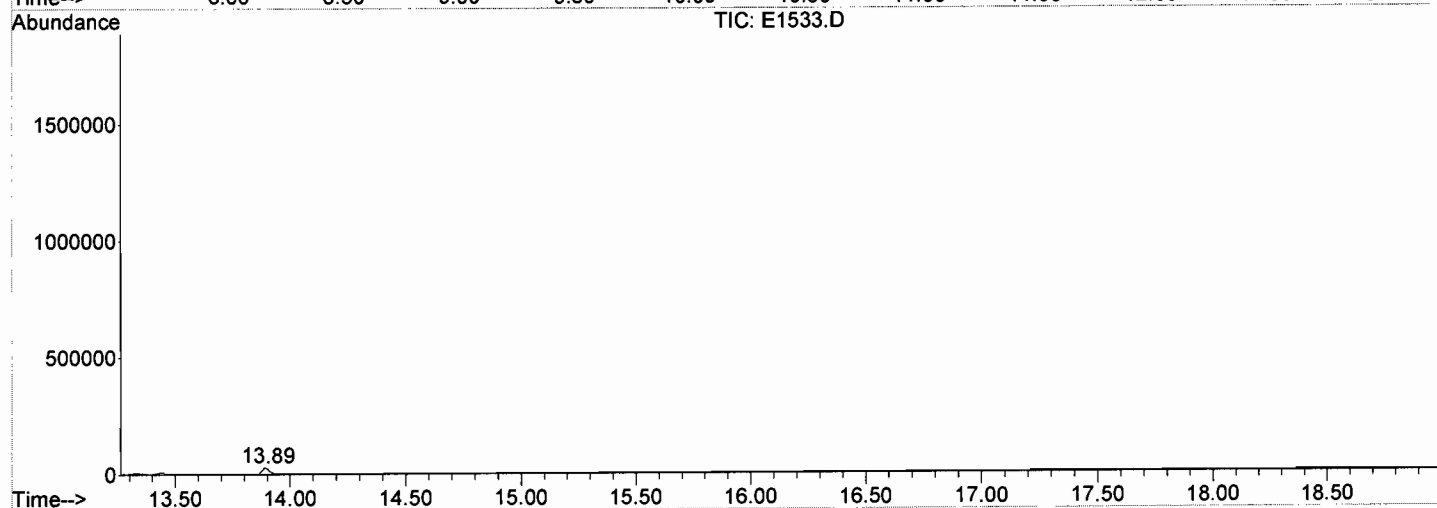
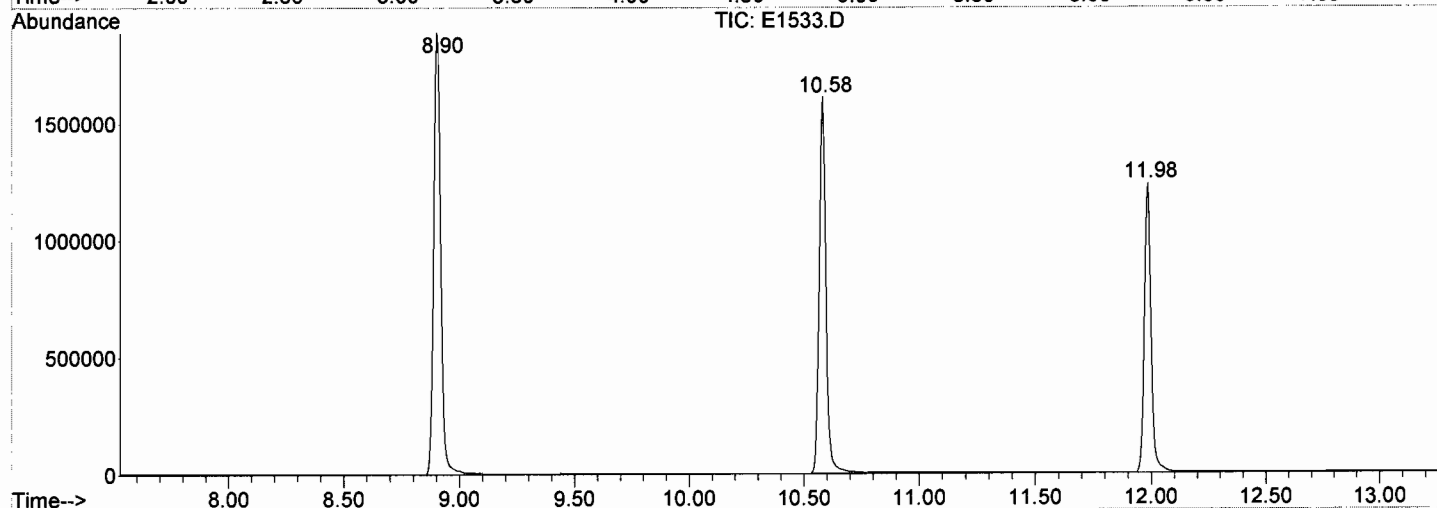
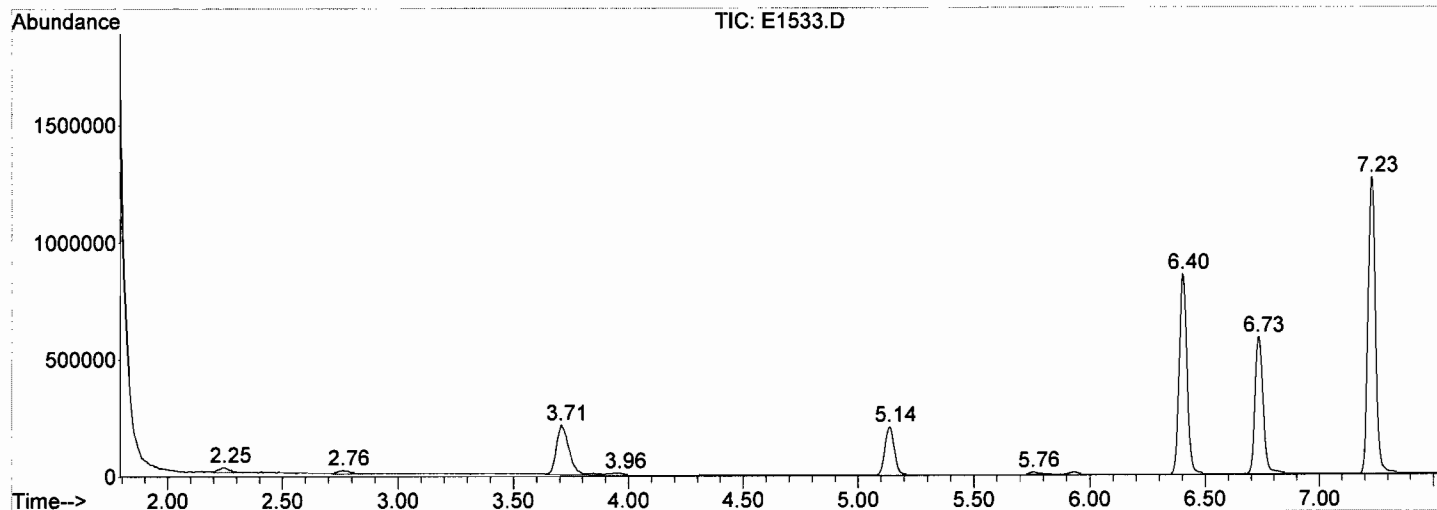
Sum of corrected areas: 17817661

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1533.D
 Acq On : 18 Sep 2017 15:44
 Operator : BARBARA
 Sample : MW-14, E17-07838-004, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1534.D
 Acq On : 18 Sep 2017 16:13
 Operator : BARBARA
 Sample : MW-3, E17-07838-005, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 15:08:22 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	600150	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1077017	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	863458	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	492029	48.21	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	96.42%
41) Toluene-d8	8.90	98	1334235	48.44	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.88%
59) Bromofluorobenzene	11.98	95	471577	46.51	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.02%

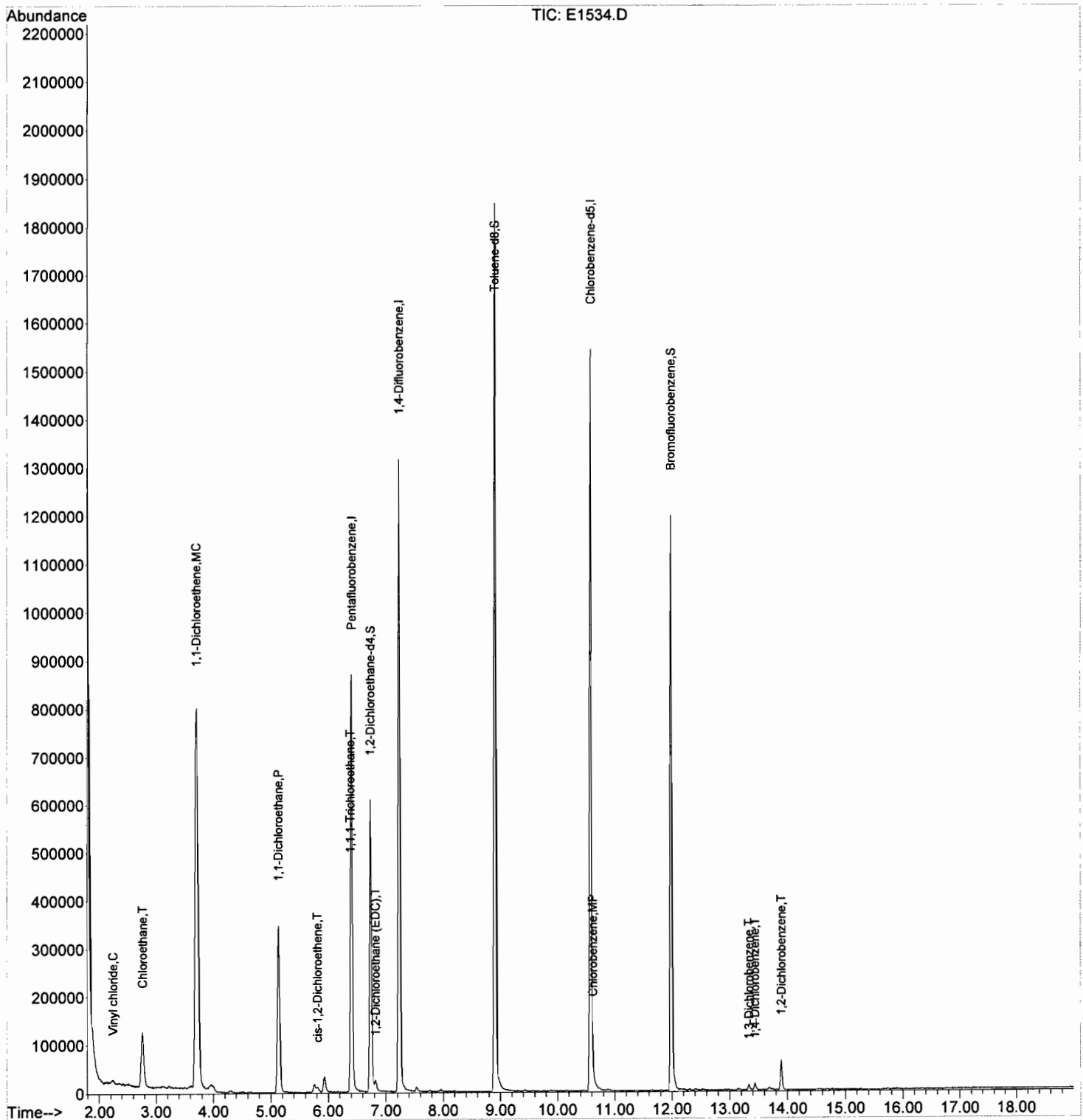
Target Compounds

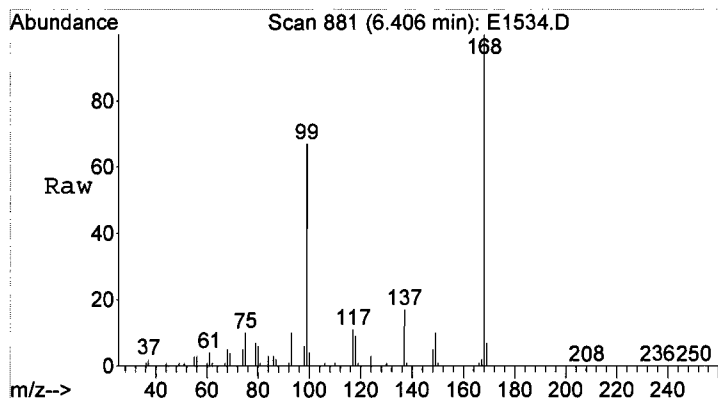
	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl chloride	2.24	62	10524	1.23	UG	# 97
6) Chloroethane	2.76	64	166863	41.81	UG	# 100
9) 1,1-Dichloroethene	3.70	96	472047	70.39	UG	# 100
18) 1,1-Dichloroethane	5.14	63	463470	31.17	UG	# 84
20) cis-1,2-Dichloroethene	5.82	96	3496m	0.46	UG	
26) 1,1,1-Trichloroethane	6.38	97	4695	0.50	UG	# 82
29) 1,2-Dichloroethane (EDC)	6.83	62	12581	0.96	UG	# 99
51) Chlorobenzene	10.62	112	8249	0.41	UG	# 96
70) 1,3-Dichlorobenzene	13.34	146	5239	0.35	UG	# 99
72) 1,4-Dichlorobenzene	13.44	146	6212	0.41	UG	# 99
74) 1,2-Dichlorobenzene	13.89	146	27040	1.91	UG	# 98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1534.D
Acq On : 18 Sep 2017 16:13
Operator : BARBARA
Sample : MW-3,E17-07838-005,A,5mL,100
Misc : BVERITAS/LEXINGTON,09/12/17,09/14/17,1
ALS Vial : 8 Sample Multiplier: 1

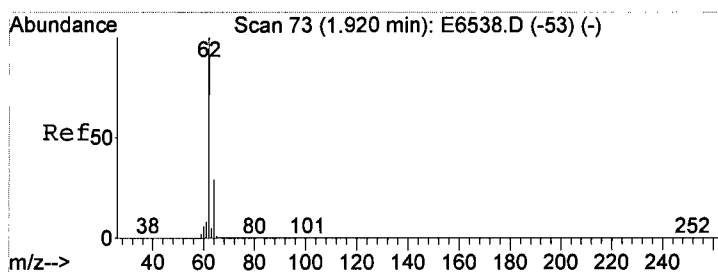
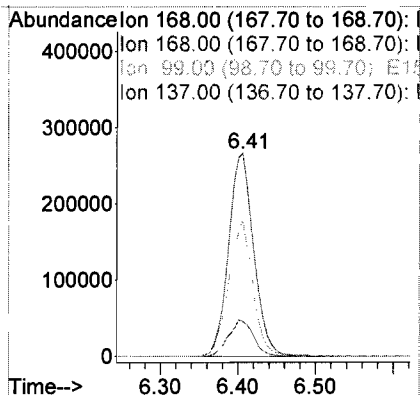
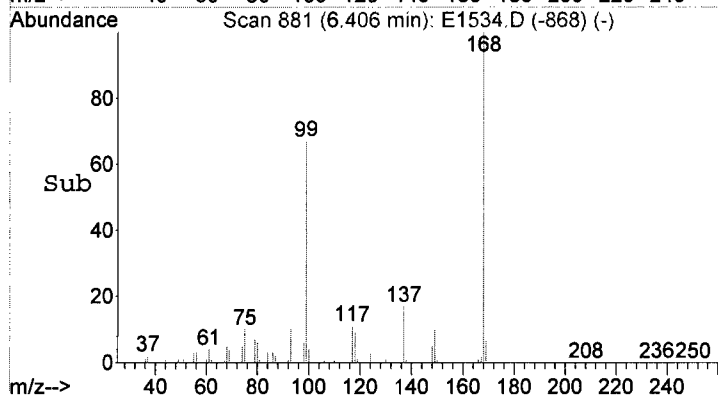
Quant Time: Sep 19 15:08:22 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





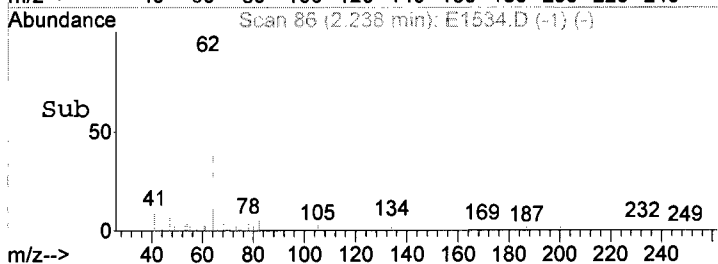
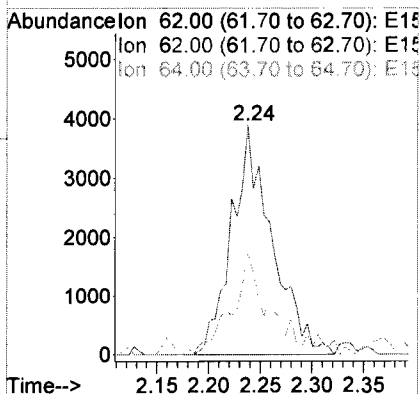
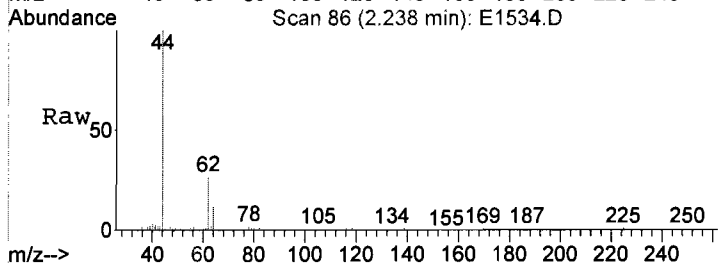
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

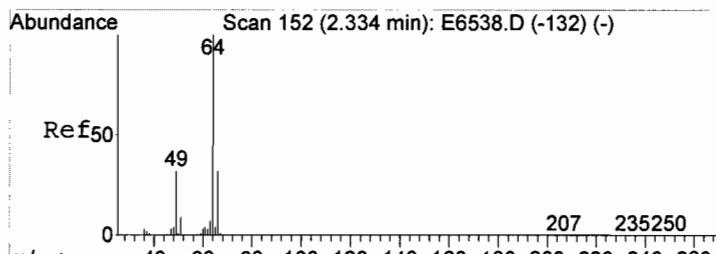
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	64.4	0.0	0.0#
137	18.0	0.0	0.0#



#4
Vinyl chloride
Concen: 1.23 UG
RT: 2.24 min Scan# 86
Delta R.T. -0.01 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

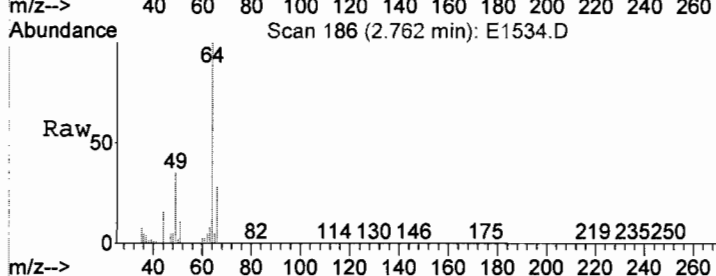
Tgt Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	39.5	26.1	39.1#



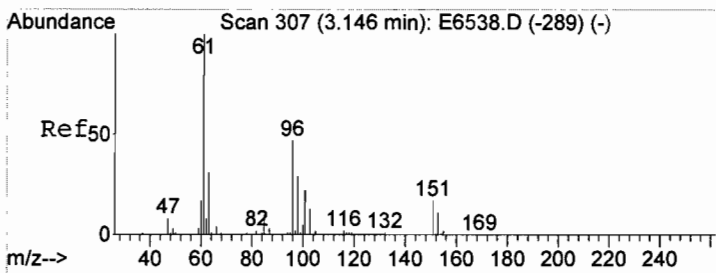
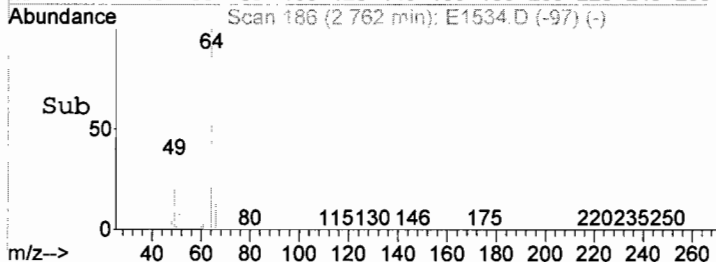
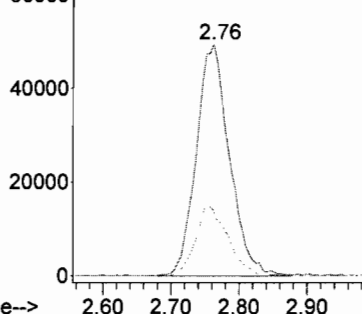


#6
Chloroethane
Concen: 41.81 UG
RT: 2.76 min Scan# 186
Delta R.T. -0.03 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 64 Resp: 166863
Ion Ratio Lower Upper
64 100
64 100.0 80.0 120.0
66 0.0 0.0 0.0

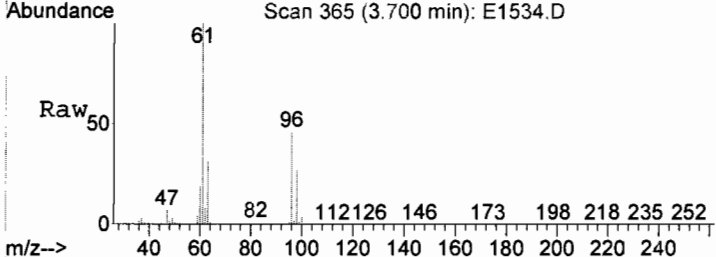


Abundance Ion 63.95 (63.65 to 64.65): E15
Ion 63.95 (63.65 to 64.65): E15
Ion 66.05 (65.75 to 66.75): E15

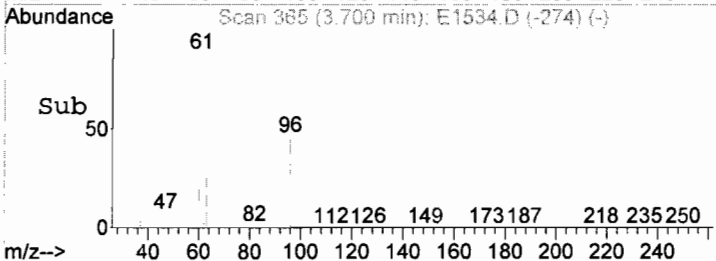
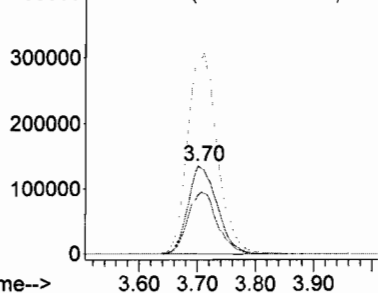


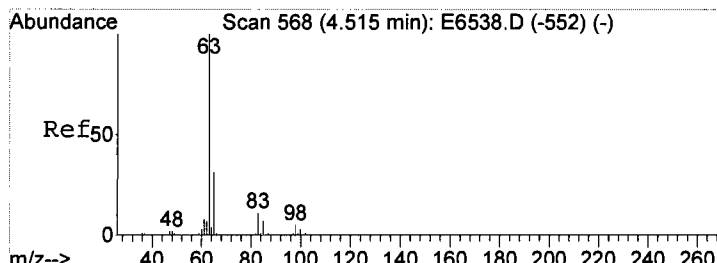
#9
1,1-Dichloroethene
Concen: 70.39 UG
RT: 3.70 min Scan# 365
Delta R.T. -0.02 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 96 Resp: 472047
Ion Ratio Lower Upper
96 100
96 100.0 80.0 120.0
61 231.1 0.0 0.0#
63 70.2 0.0 0.0#



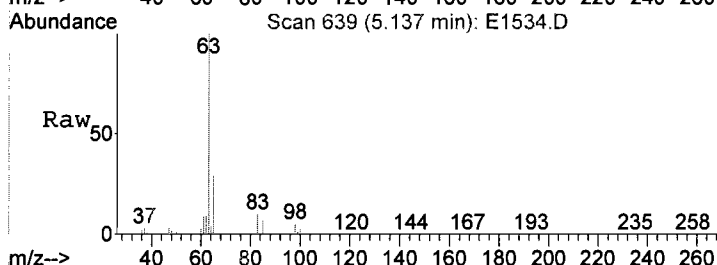
Abundance Ion 95.85 (95.55 to 96.55): E15
Ion 95.85 (95.55 to 96.55): E15
Ion 61.05 (60.75 to 61.75): E15
Ion 63.05 (62.75 to 63.75): E15



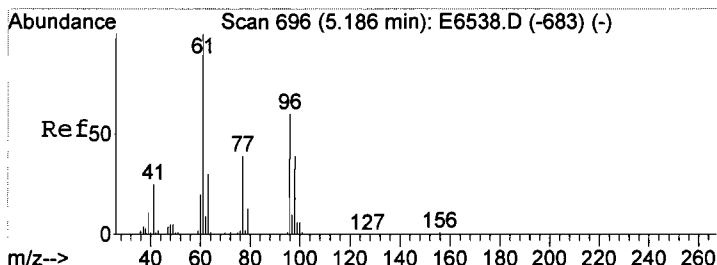
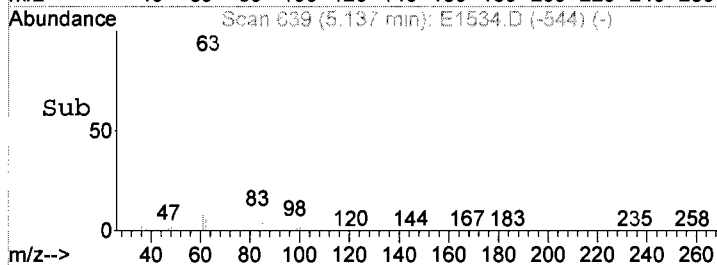
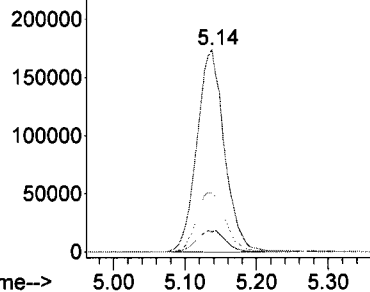


#18
1,1-Dichloroethane
Concen: 31.17 UG
RT: 5.14 min Scan# 639
Delta R.T. -0.00 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 63 Resp: 463470
Ion Ratio Lower Upper
63 100
63 100.0 80.0 120.0
65 0.0 25.6 38.4#
83 0.0 11.3 16.9#

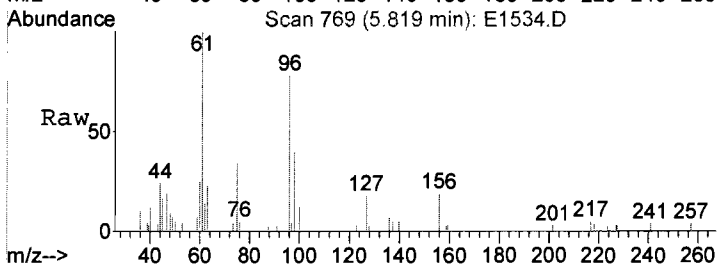


Abundance Ion 62.95 (62.65 to 63.65): E15
Ion 62.95 (62.65 to 63.65): E15
Ion 64.95 (64.65 to 65.65): E15
Ion 83.10 (82.80 to 83.80): E15

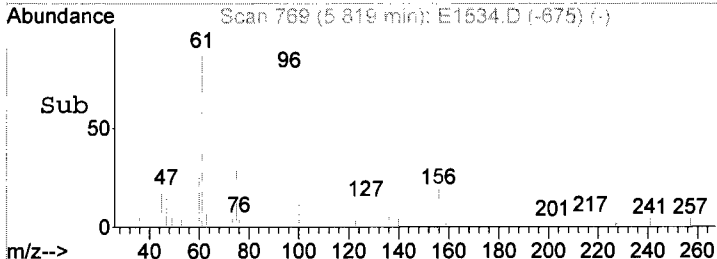
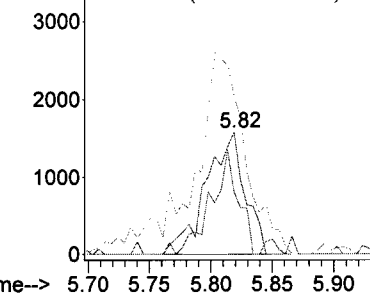


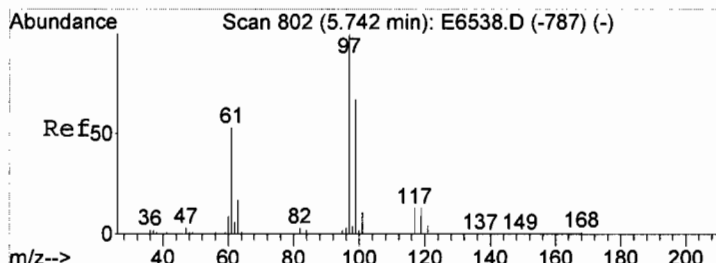
#20
cis-1,2-Dichloroethene
Concen: 0.46 UG m
RT: 5.82 min Scan# 769
Delta R.T. -0.01 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 96 Resp: 3496
Ion Ratio Lower Upper
96 100
96 0.0 80.0 120.0#
61 0.0 0.0 0.0
98 0.0 0.0 0.0



Abundance Ion 95.85 (95.55 to 96.55): E15
Ion 95.85 (95.55 to 96.55): E15
Ion 61.00 (60.70 to 61.70): E15
Ion 98.10 (97.80 to 98.80): E15

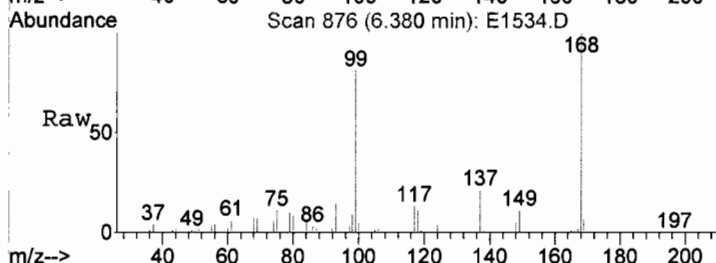




#26
1,1,1-Trichloroethane
Concen: 0.50 UG
RT: 6.38 min Scan# 876
Delta R.T. -0.01 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 97 Resp: 4695

Ion	Ratio	Lower	Upper
97	100		
97	100.0	80.0	120.0
99	0.0	0.0	0.0
61	0.0	31.7	47.5#



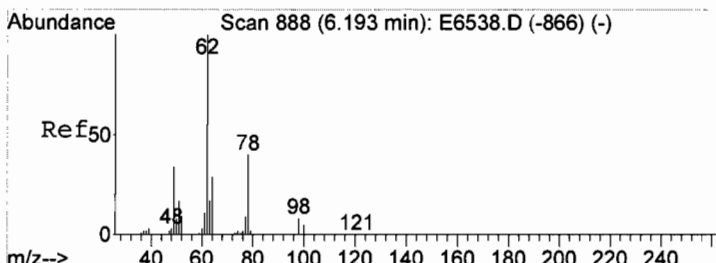
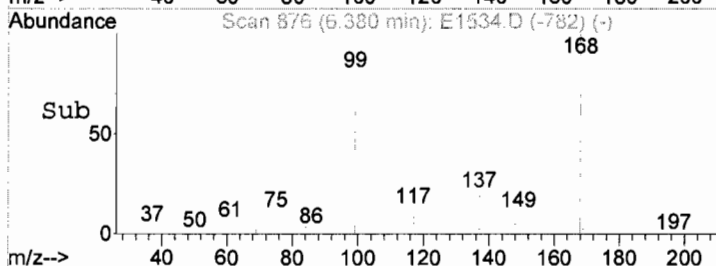
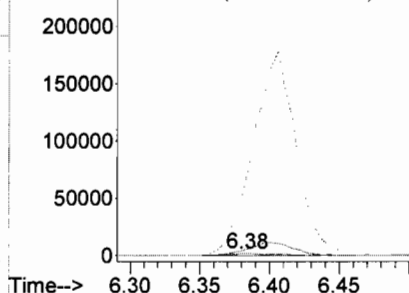
Abundance

Ion 96.90 (96.60 to 97.60): E15

Ion 96.90 (96.60 to 97.60): E15

Ion 98.90 (98.60 to 99.60): E15

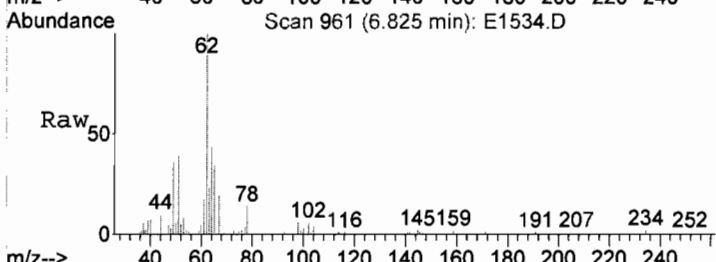
Ion 61.00 (60.70 to 61.70): E15



#29
1,2-Dichloroethane (EDC)
Concen: 0.96 UG
RT: 6.83 min Scan# 961
Delta R.T. 0.01 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 62 Resp: 12581

Ion	Ratio	Lower	Upper
62	100		
62	100.0	90.0	110.0
64	34.1	29.1	35.5
49	0.0	0.0	0.0



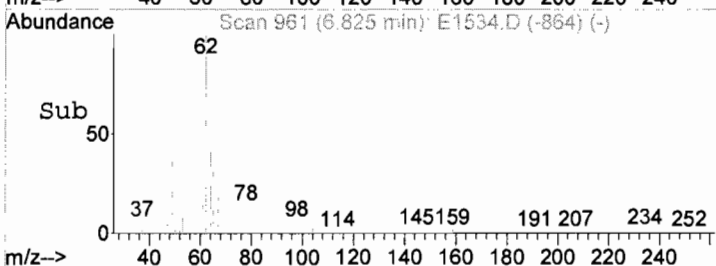
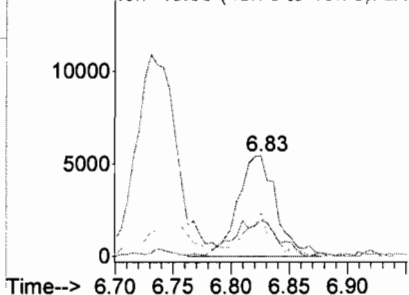
Abundance

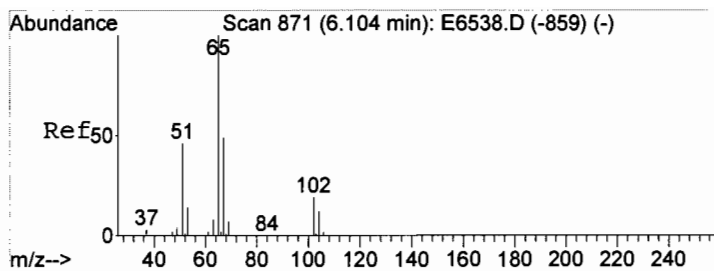
Ion 61.95 (61.65 to 62.65): E15

Ion 61.95 (61.65 to 62.65): E15

Ion 63.95 (63.65 to 64.65): E15

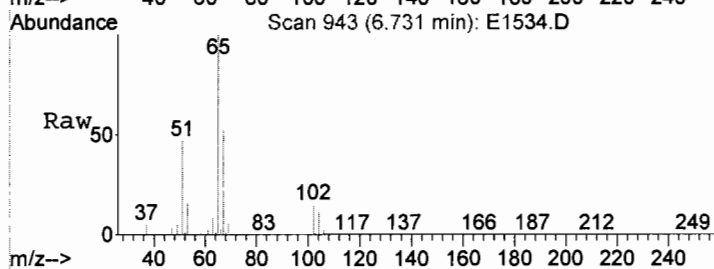
Ion 49.00 (48.70 to 49.70): E15



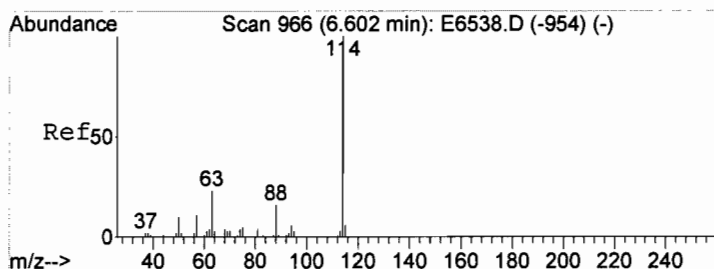
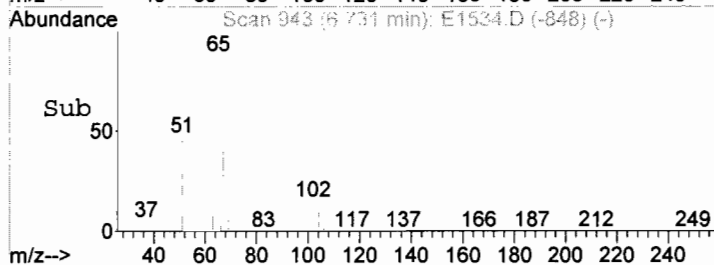
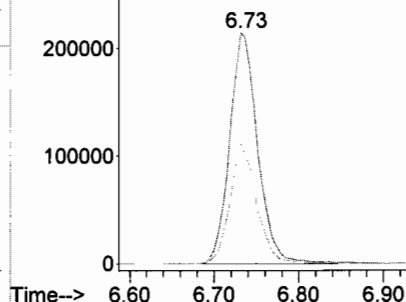


#30
 1,2-Dichloroethane-d4
 Concen: 48.21 UG
 RT: 6.73 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: E1534.D
 Acq: 18 Sep 2017 16:13

Tgt Ion: 65 Resp: 492029
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 67 49.9 43.2 64.8

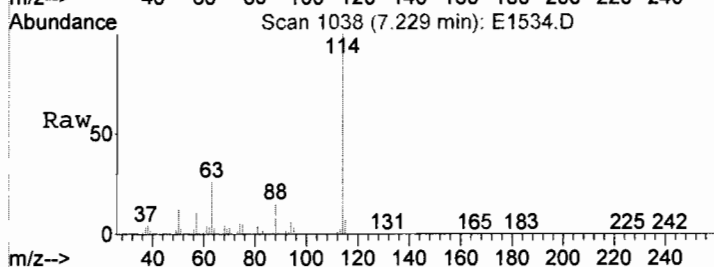


Abundance Ion 65.15 (64.85 to 65.85): E1534.D
 Ion 65.15 (64.85 to 65.85): E1534.D
 Ion 67.15 (66.85 to 67.85): E1534.D

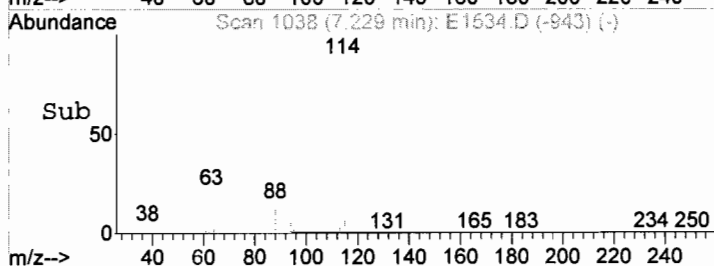
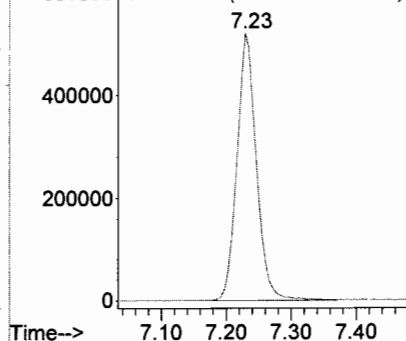


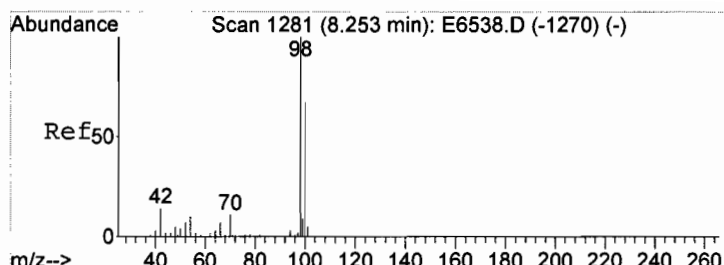
#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.23 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: E1534.D
 Acq: 18 Sep 2017 16:13

Tgt Ion: 114 Resp: 1077017
 Ion Ratio Lower Upper
 114 100
 114 100.0 80.0 120.0



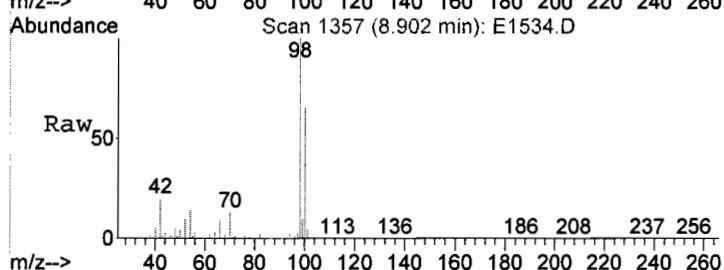
Abundance Ion 114.00 (113.70 to 114.70): E1534.D
 Ion 114.00 (113.70 to 114.70): E1534.D



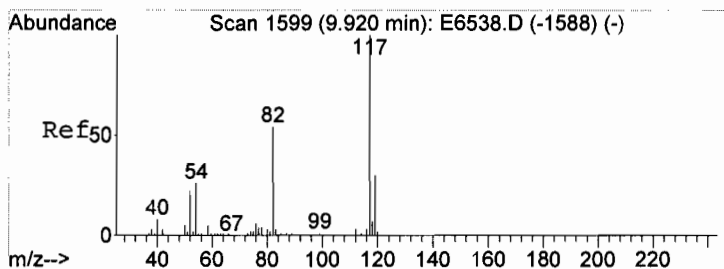
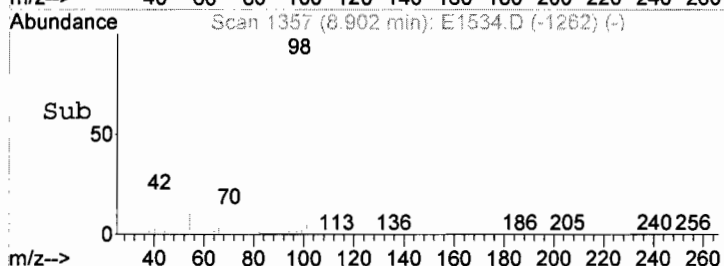
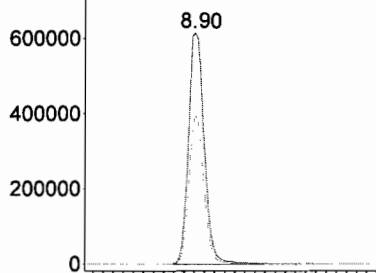


#41
Toluene-d8
Concen: 48.44 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 98 Resp: 1334235
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.8 53.4 80.0

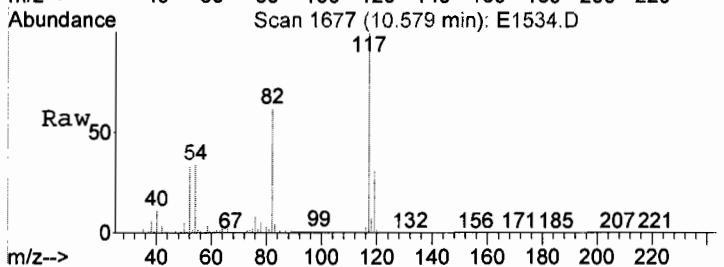


Abundance Ion 98.00 (97.70 to 98.70): E15
Ion 98.00 (97.70 to 98.70): E15
Ion 100.00 (99.70 to 100.70): E15

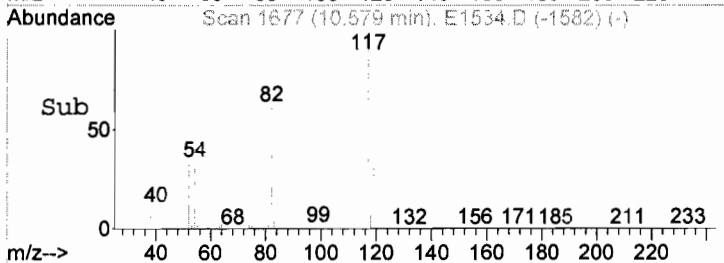
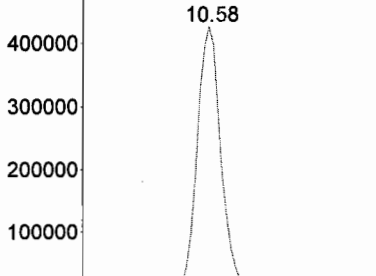


#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

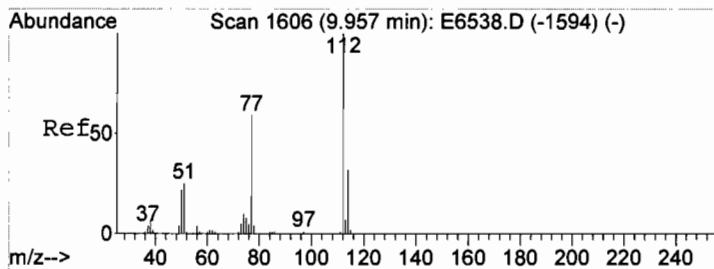
Tgt Ion: 117 Resp: 863458
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



Abundance Ion 117.00 (116.70 to 117.70): I
Ion 117.00 (116.70 to 117.70): I

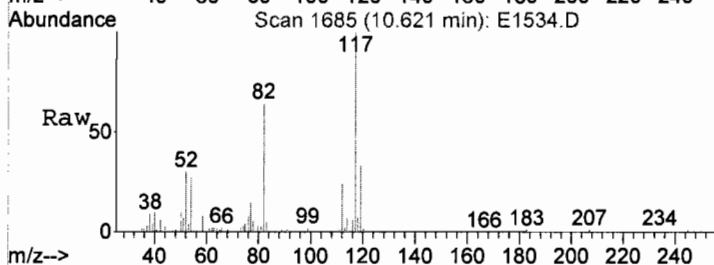


Time-->

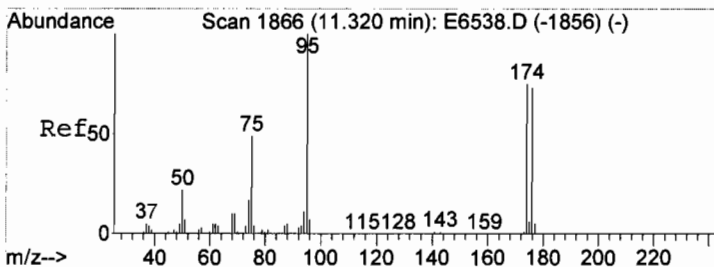
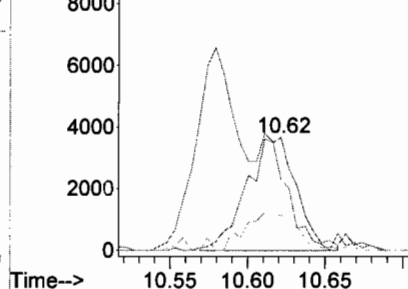
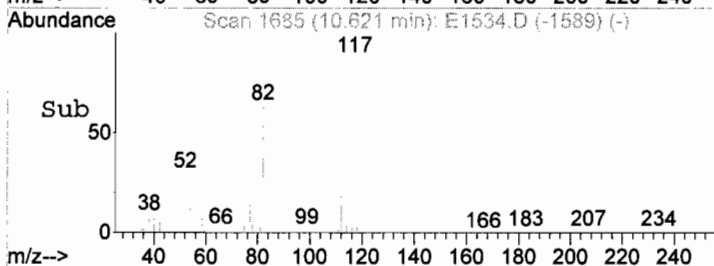


#51
Chlorobenzene
Concen: 0.41 UG
RT: 10.62 min Scan# 1685
Delta R.T. 0.01 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 112 Resp: 8249
Ion Ratio Lower Upper
112 100
112 100.0 80.0 120.0
114 33.2 0.0 0.0#
77 63.2 44.2 66.4

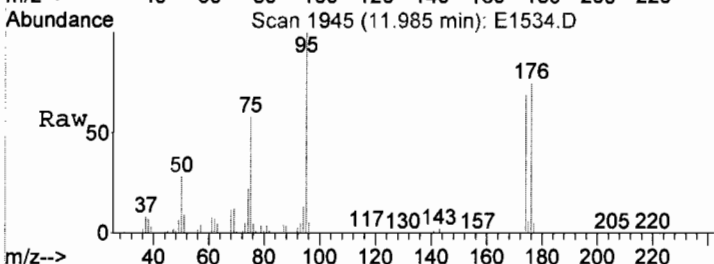


Abundance Ion 112.00 (111.70 to 112.70): 10000
Ion 112.00 (111.70 to 112.70): 10000
Ion 114.00 (113.70 to 114.70): 10000
Ion 77.15 (76.85 to 77.85): 10000

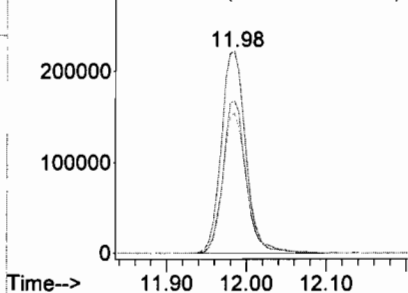
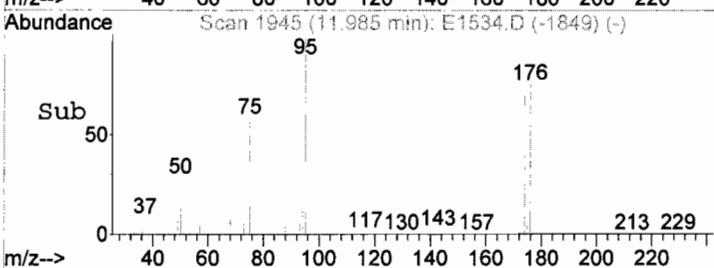


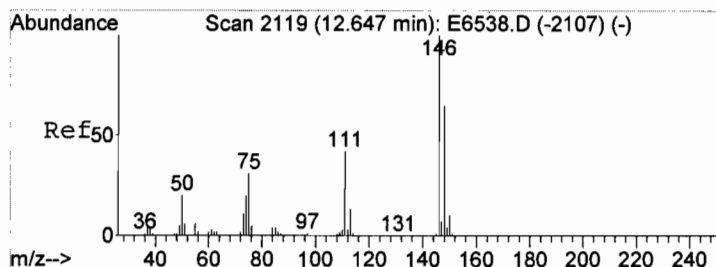
#59
Bromofluorobenzene
Concen: 46.51 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1534.D
Acq: 18 Sep 2017 16:13

Tgt Ion: 95 Resp: 471577
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 68.0 62.9 94.3
176 70.8 60.5 90.7



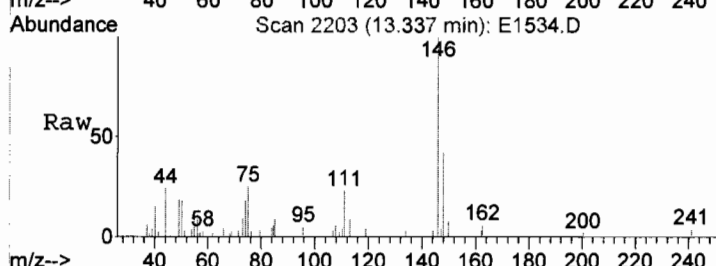
Abundance Ion 95.05 (94.75 to 95.75): 300000
Ion 95.05 (94.75 to 95.75): 300000
Ion 174.00 (173.70 to 174.70): 300000
Ion 175.95 (175.65 to 176.65): 300000



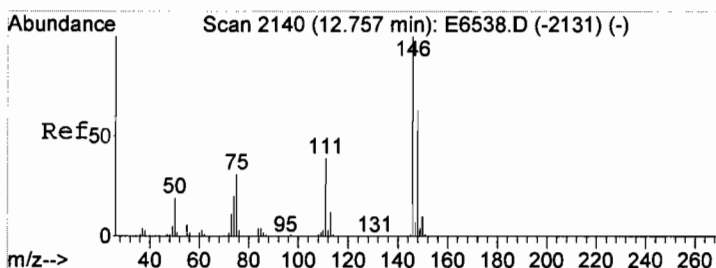
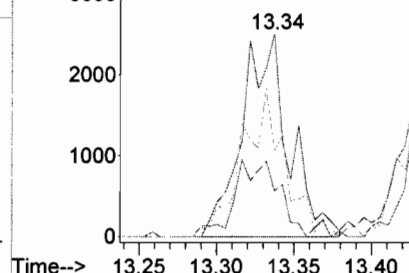
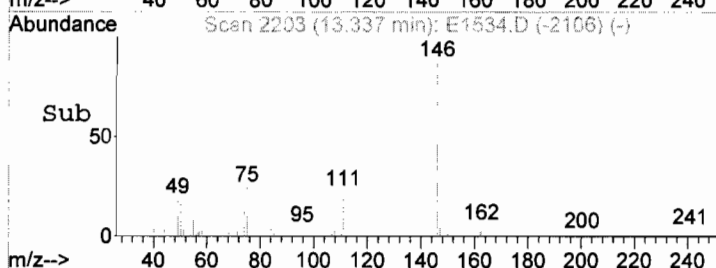


#70
 1,3-Dichlorobenzene
 Concen: 0.35 UG
 RT: 13.34 min Scan# 2203
 Delta R.T. 0.01 min
 Lab File: E1534.D
 Acq: 18 Sep 2017 16:13

Tgt Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	66.5	51.1	76.7
111	0.0	0.0	0.0

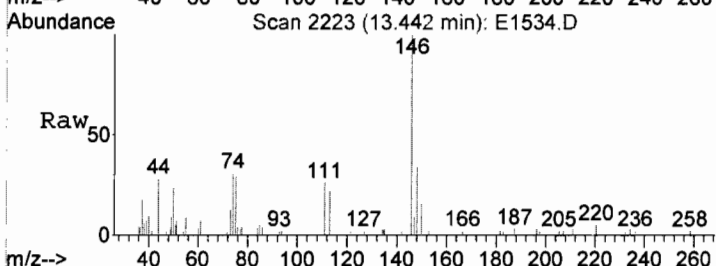


Abundance Ion 146.00 (145.70 to 146.70): I
 4000 Ion 146.00 (145.70 to 146.70): I
 Ion 147.95 (147.65 to 148.65): I
 Ion 111.00 (110.70 to 111.70): I

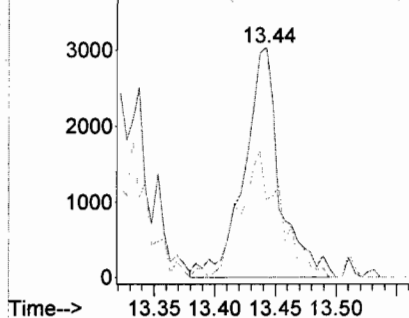
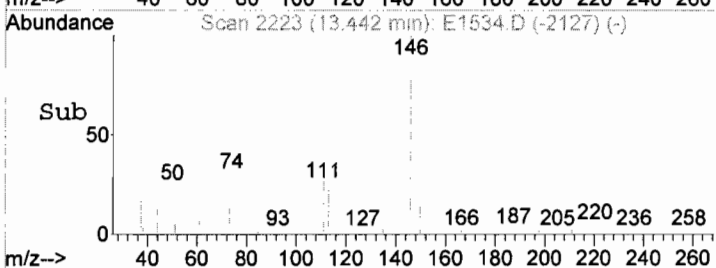


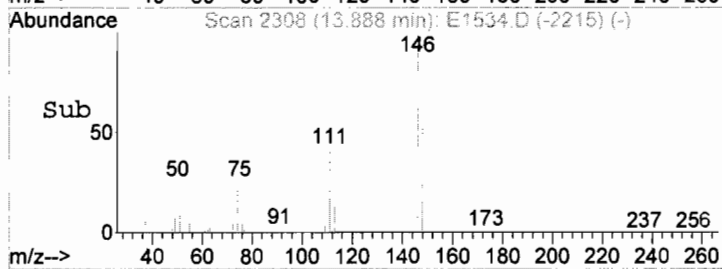
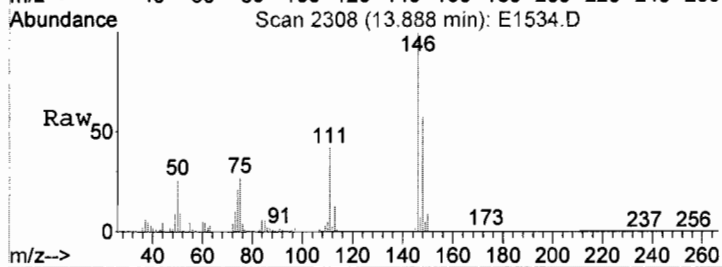
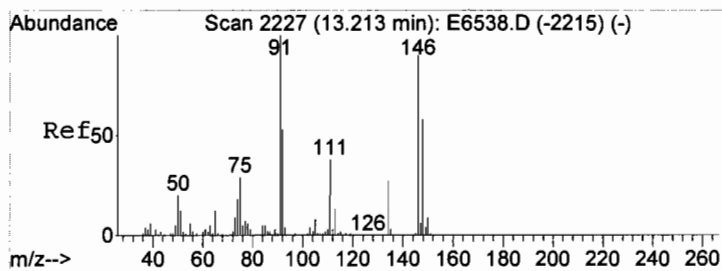
#72
 1,4-Dichlorobenzene
 Concen: 0.41 UG
 RT: 13.44 min Scan# 2223
 Delta R.T. 0.01 min
 Lab File: E1534.D
 Acq: 18 Sep 2017 16:13

Tgt Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	61.9	51.1	76.7



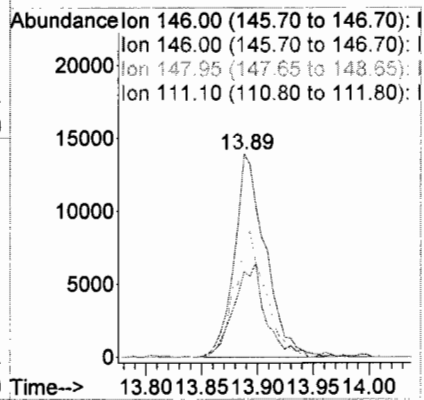
Abundance Ion 146.00 (145.70 to 146.70): I
 4000 Ion 146.00 (145.70 to 146.70): I
 Ion 147.95 (147.65 to 148.65): I





#74
 1,2-Dichlorobenzene
 Concen: 1.91 UG
 RT: 13.89 min Scan# 2308
 Delta R.T. -0.01 min
 Lab File: E1534.D
 Acq: 18 Sep 2017 16:13

Tgt Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	61.7	0.0	0.0#
111	46.4	33.2	49.8



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1534.D
Acq On : 18 Sep 2017 16:13
Operator : BARBARA
Sample : MW-3, E17-07838-005, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.243	78	87	117	rVB2	9887	49755	1.28%	0.242%
2	2.762	171	186	225	rVB3	114591	400664	10.28%	1.947%
3	3.711	352	367	401	rVV2	792067	2893321	74.25%	14.062%
4	3.968	401	416	437	rVB9	16007	99018	2.54%	0.481%
5	5.137	624	639	661	rBV	346826	949072	24.36%	4.613%
6	5.756	744	757	764	rBV3	17273	53574	1.37%	0.260%
7	5.934	779	791	805	rBV2	32582	99409	2.55%	0.483%
8	6.406	869	881	904	rBV	869265	1982302	50.87%	9.634%
9	6.731	930	943	956	rBV	607748	1398940	35.90%	6.799%
10	6.815	956	959	981	rVB3	22540	60531	1.55%	0.294%
11	7.229	1025	1038	1082	rBV	1315971	2835580	72.77%	13.781%
12	8.902	1345	1357	1392	rBV	1847408	3896726	100.00%	18.939%
13	10.579	1662	1677	1714	rBV	1544016	3233838	82.99%	15.717%
14	11.979	1930	1944	1973	rBV	1198678	2489054	63.88%	12.097%
15	13.893	2298	2309	2322	rBV2	61752	133490	3.43%	0.649%

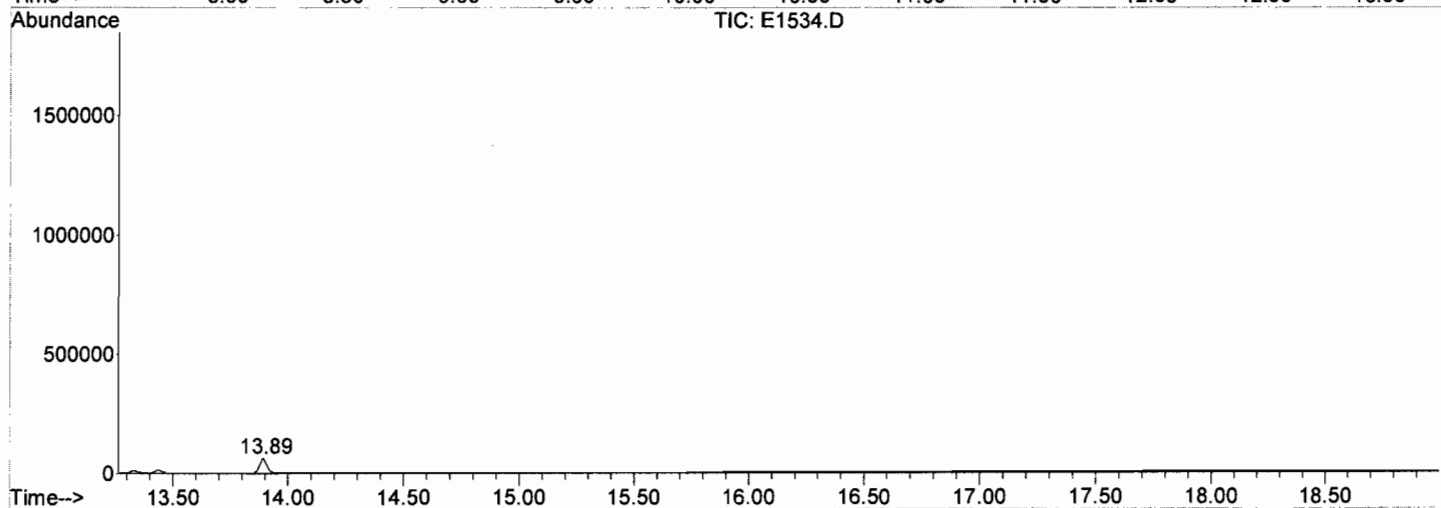
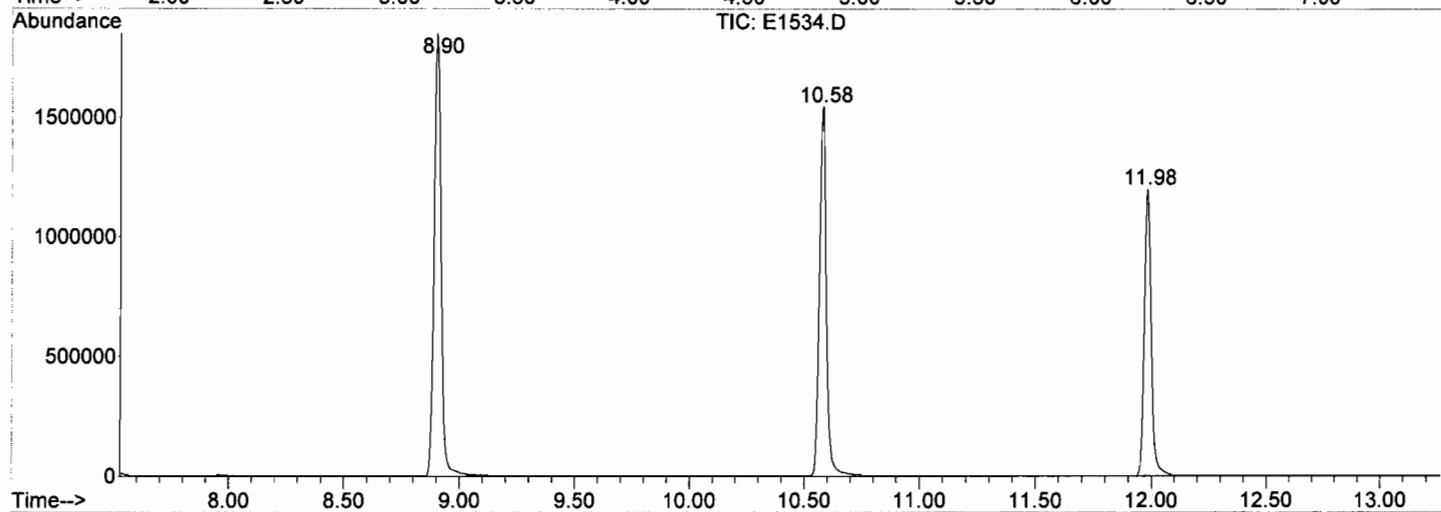
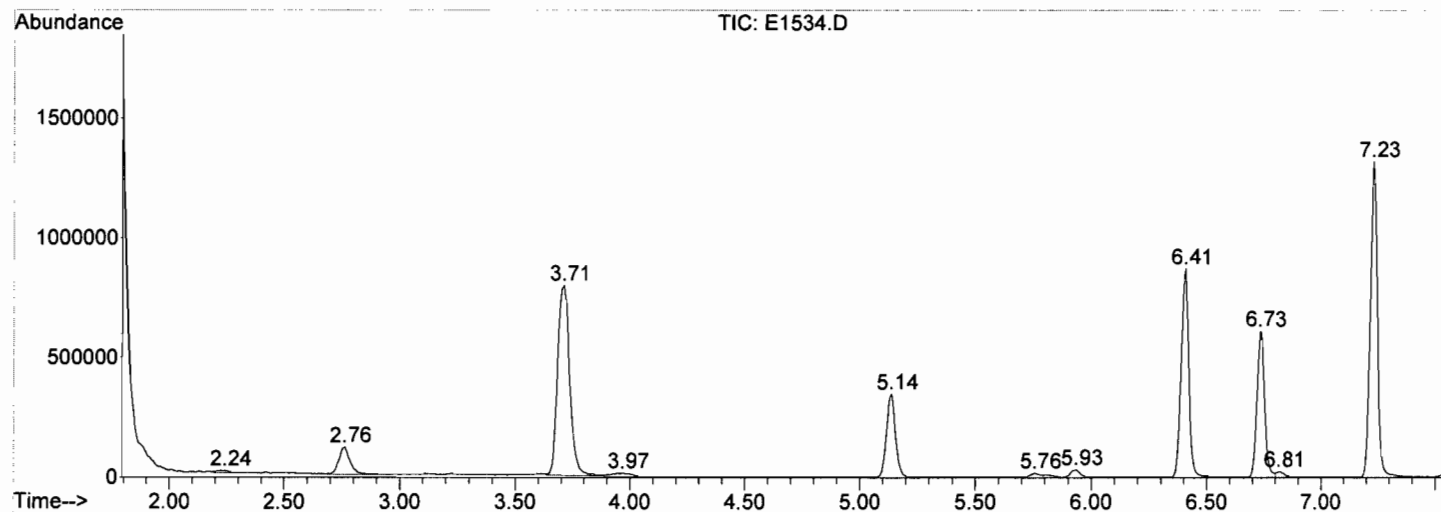
Sum of corrected areas: 20575274

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1534.D
 Acq On : 18 Sep 2017 16:13
 Operator : BARBARA
 Sample : MW-3, E17-07838-005, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1535.D
 Acq On : 18 Sep 2017 16:43
 Operator : BARBARA
 Sample : MW-13, E17-07838-006, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 17:19:52 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	589182	50.00	UG	0.01
31) 1,4-Difluorobenzene	7.23	114	1072569	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	848153	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.74	65	486557	48.57	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	97.14%
41) Toluene-d8	8.90	98	1322964	48.23	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.46%
59) Bromofluorobenzene	11.98	95	473945	47.58	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	95.16%

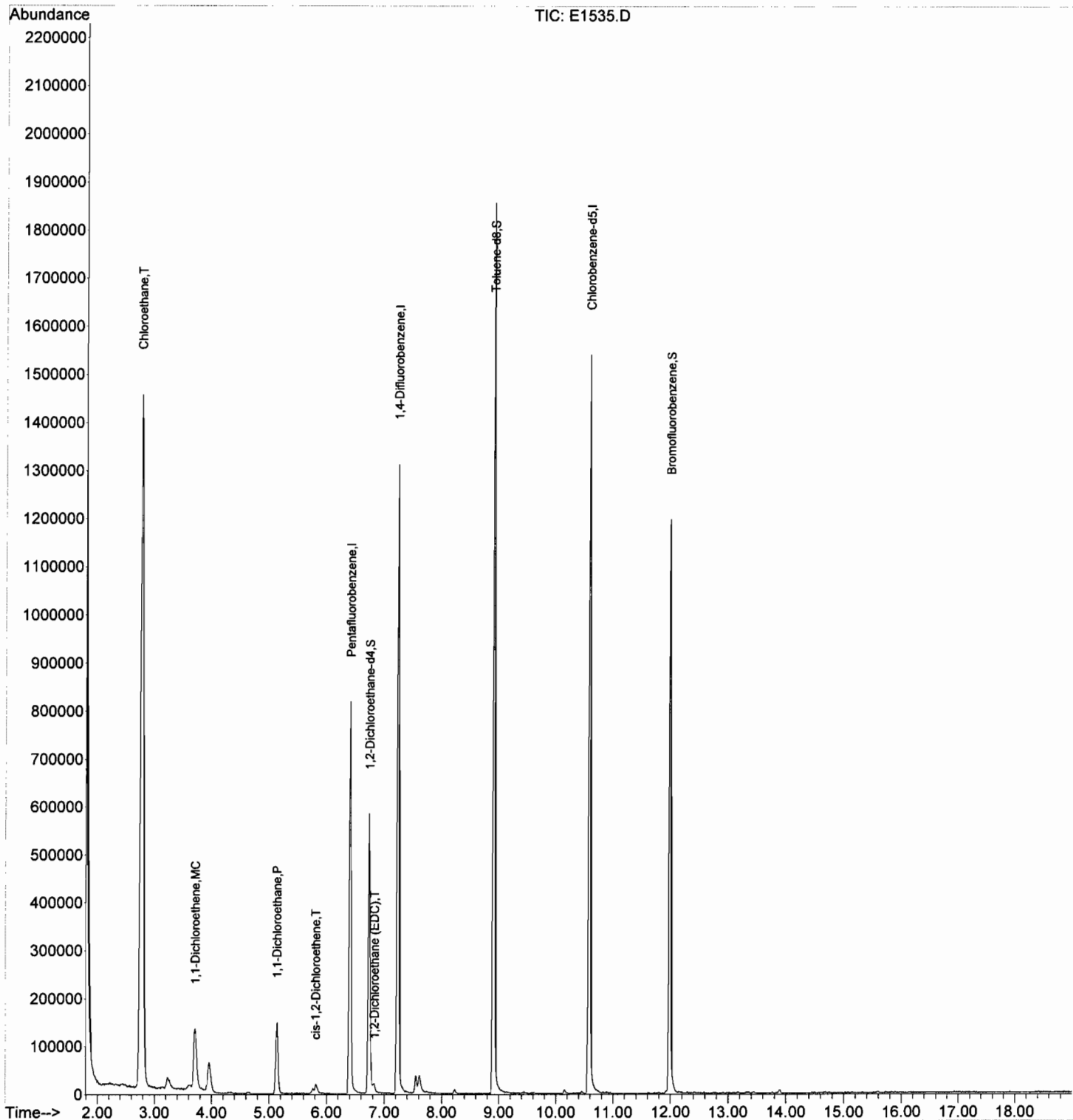
Target Compounds

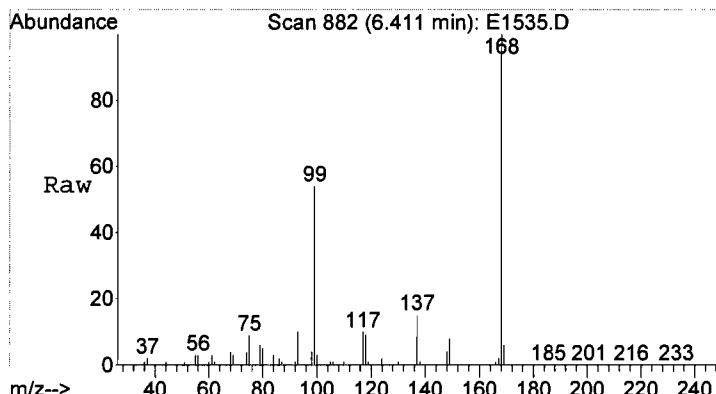
						Qvalue
6) Chloroethane	2.76	64	2277527	581.26	UG	# 100
9) 1,1-Dichloroethene	3.71	96	77168	11.72	UG	# 100
18) 1,1-Dichloroethane	5.14	63	192123	13.16	UG	# 99
20) cis-1,2-Dichloroethene	5.81	96	7116	0.96	UG	# 100
29) 1,2-Dichloroethane (EDC)	6.83	62	12265	0.96	UG	# 86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1535.D
Acq On : 18 Sep 2017 16:43
Operator : BARBARA
Sample : MW-13, E17-07838-006, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 9 Sample Multiplier: 1

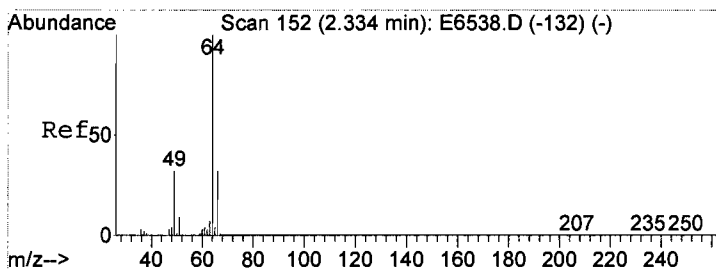
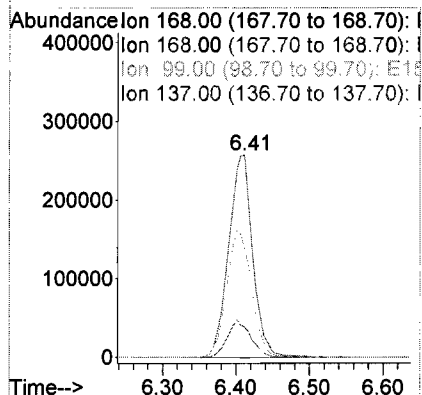
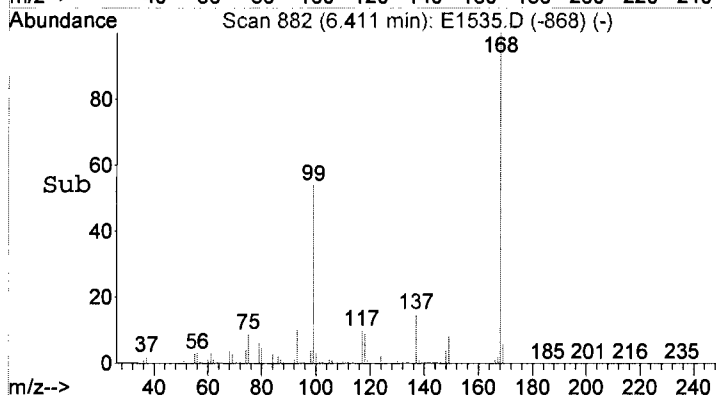
Quant Time: Sep 18 17:19:52 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





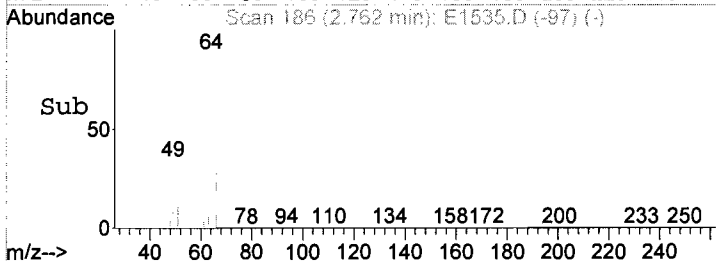
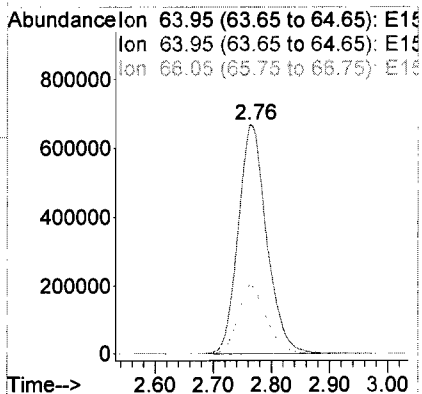
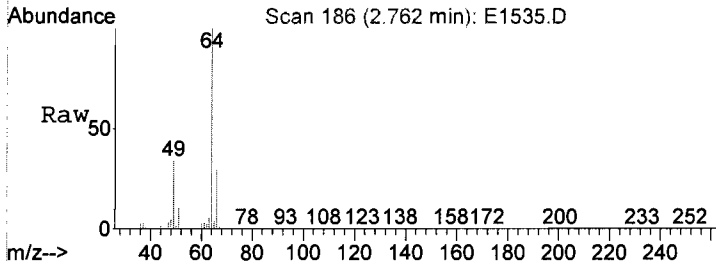
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 882
Delta R.T. 0.01 min
Lab File: E1535.D
Acq: 18 Sep 2017 16:43

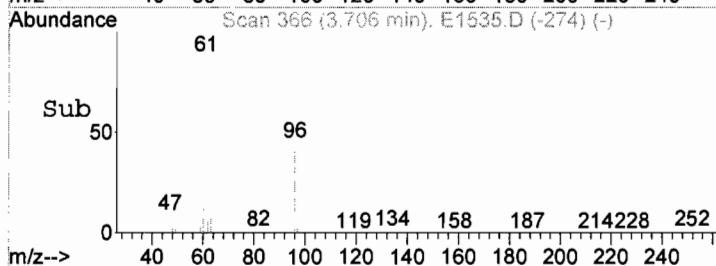
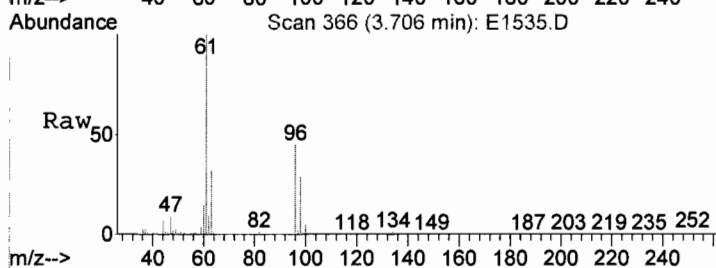
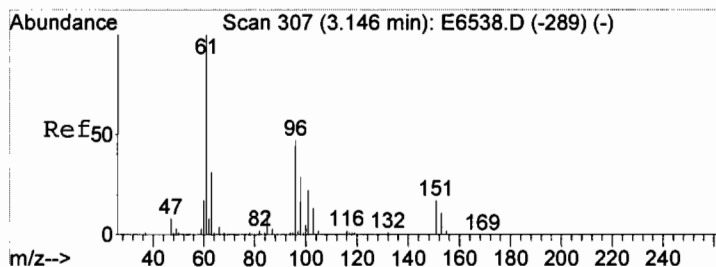
Tgt Ion: 168 Resp: 589182
Ion Ratio Lower Upper
168 100
168 100.0 80.0 120.0
99 65.5 0.0 0.0#
137 18.0 0.0 0.0#



#6
Chloroethane
Concen: 581.26 UG
RT: 2.76 min Scan# 186
Delta R.T. -0.03 min
Lab File: E1535.D
Acq: 18 Sep 2017 16:43

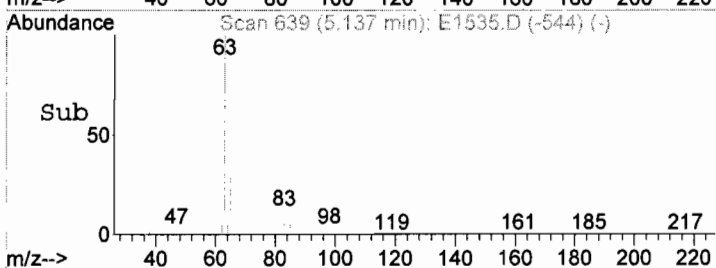
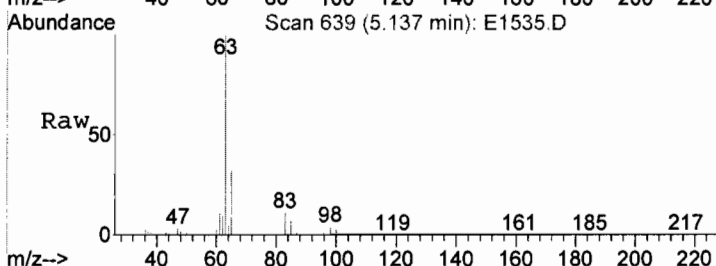
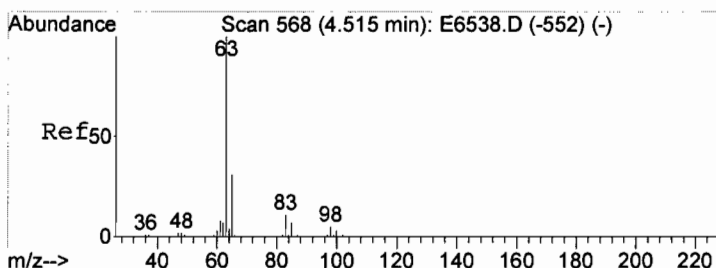
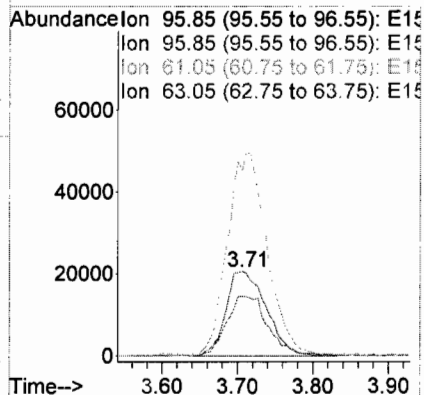
Tgt Ion: 64 Resp: 2277527
Ion Ratio Lower Upper
64 100
64 100.0 80.0 120.0
66 29.9 0.0 0.0#





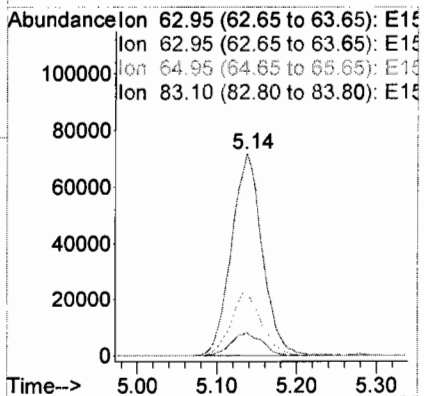
#9
1,1-Dichloroethene
Concen: 11.72 UG
RT: 3.71 min Scan# 366
Delta R.T. -0.02 min
Lab File: E1535.D
Acq: 18 Sep 2017 16:43

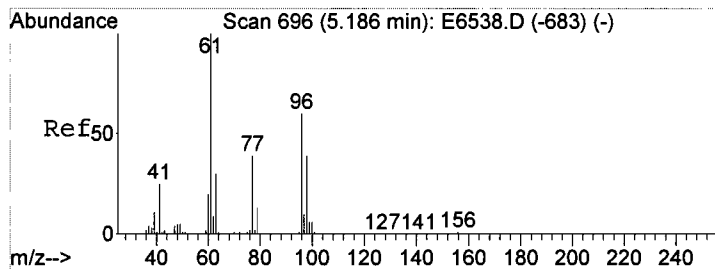
Tgt Ion: 96 Resp: 77168
Ion Ratio Lower Upper
96 100
96 100.0 80.0 120.0
61 233.5 0.0 0.0#
63 0.0 0.0 0.0



#18
1,1-Dichloroethane
Concen: 13.16 UG
RT: 5.14 min Scan# 639
Delta R.T. 0.00 min
Lab File: E1535.D
Acq: 18 Sep 2017 16:43

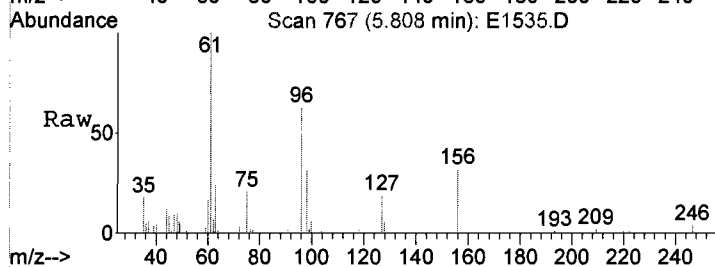
Tgt Ion: 63 Resp: 192123
Ion Ratio Lower Upper
63 100
63 100.0 80.0 120.0
65 31.2 25.6 38.4
83 11.2 11.3 16.9#



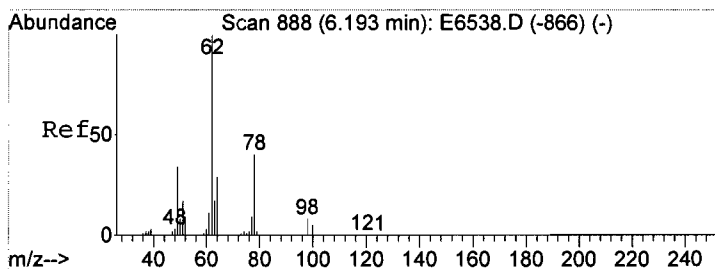
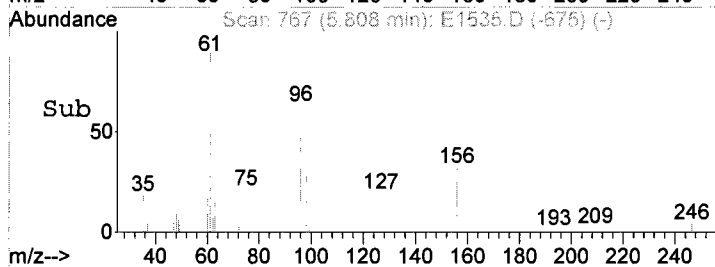
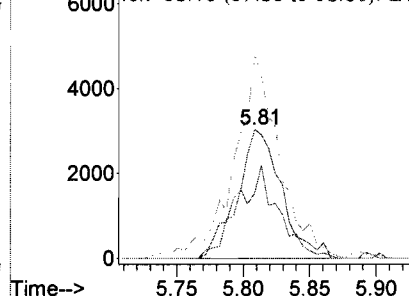


#20
 cis-1,2-Dichloroethene
 Concen: 0.96 UG
 RT: 5.81 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: E1535.D
 Acq: 18 Sep 2017 16:43

Tgt Ion: 96 Resp: 7116
 Ion Ratio Lower Upper
 96 100
 96 100.0 80.0 120.0
 61 0.0 0.0 0.0
 98 64.8 0.0 0.0#

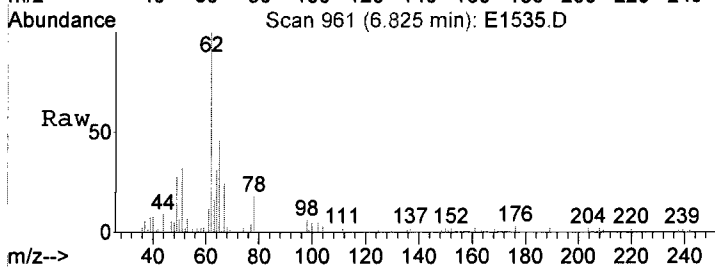


Abundance Ion 95.85 (95.55 to 96.55): E15
 Ion 95.85 (95.55 to 96.55): E15
 Ion 61.00 (60.70 to 61.70): E15
 Ion 98.10 (97.80 to 98.80): E15

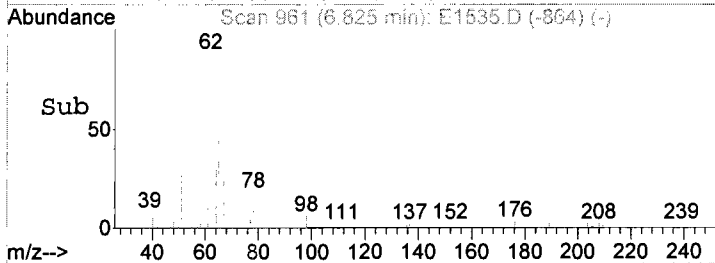
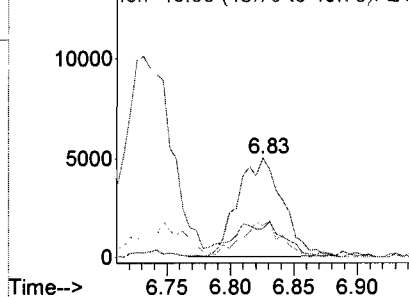


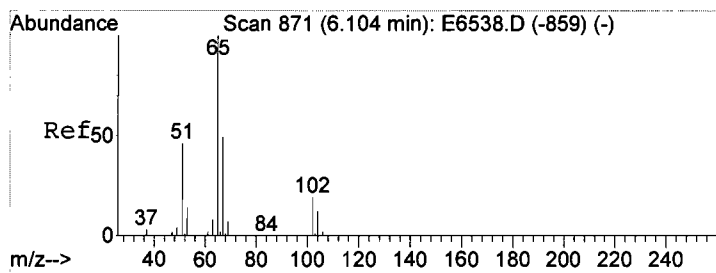
#29
 1,2-Dichloroethane (EDC)
 Concen: 0.96 UG
 RT: 6.83 min Scan# 961
 Delta R.T. 0.01 min
 Lab File: E1535.D
 Acq: 18 Sep 2017 16:43

Tgt Ion: 62 Resp: 12265
 Ion Ratio Lower Upper
 62 100
 62 100.0 90.0 110.0
 64 0.0 29.1 35.5#
 49 0.0 0.0 0.0



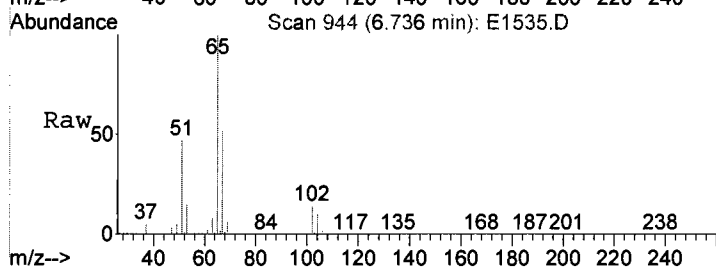
Abundance Ion 61.95 (61.65 to 62.65): E15
 Ion 61.95 (61.65 to 62.65): E15
 Ion 63.95 (63.65 to 64.65): E15
 Ion 49.00 (48.70 to 49.70): E15



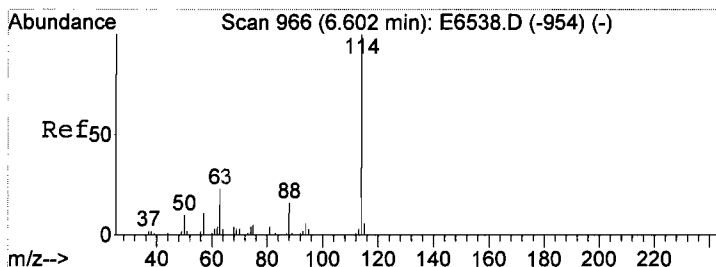
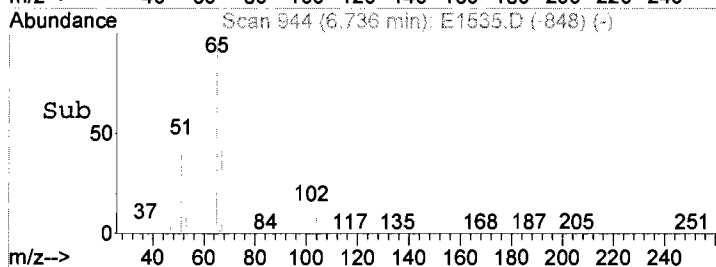
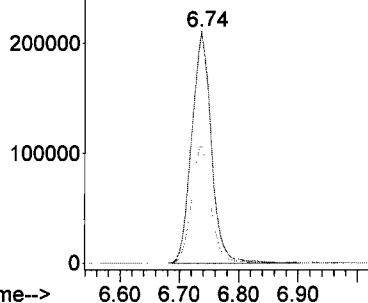


#30
 1,2-Dichloroethane-d4
 Concen: 48.57 UG
 RT: 6.74 min Scan# 944
 Delta R.T. 0.01 min
 Lab File: E1535.D
 Acq: 18 Sep 2017 16:43

Tgt Ion: 65 Resp: 486557
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 67 50.4 43.2 64.8

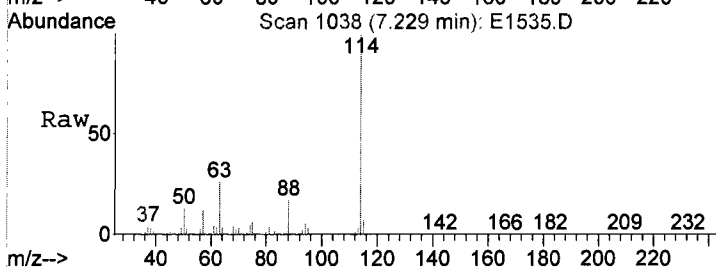


Abundance Ion 65.15 (64.85 to 65.85): E1535.D
 Ion 65.15 (64.85 to 65.85): E1535.D
 Ion 67.15 (66.85 to 67.85): E1535.D

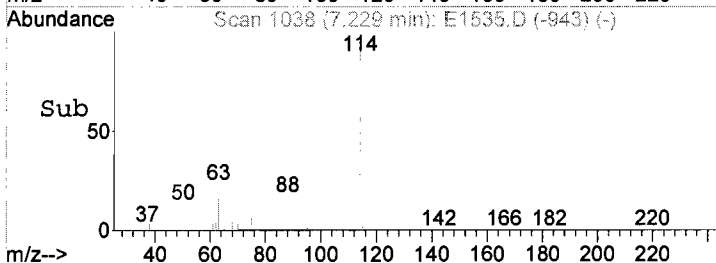
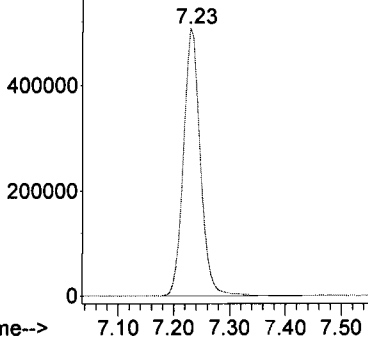


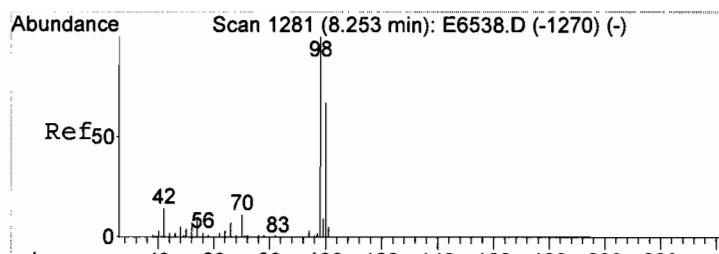
#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.23 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: E1535.D
 Acq: 18 Sep 2017 16:43

Tgt Ion: 114 Resp: 1072569
 Ion Ratio Lower Upper
 114 100
 114 100.0 80.0 120.0



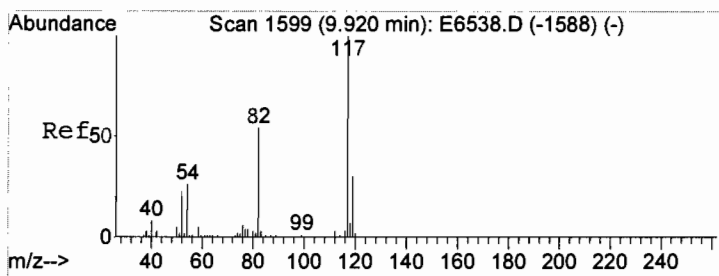
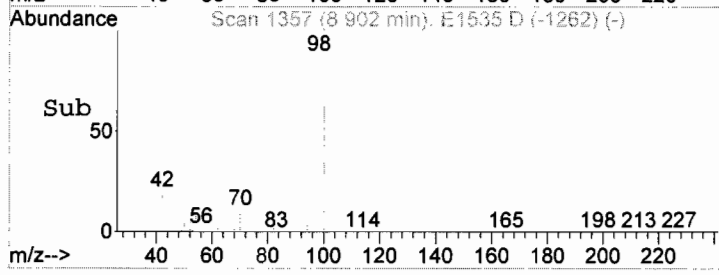
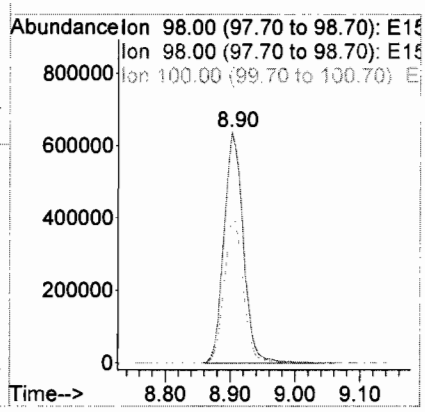
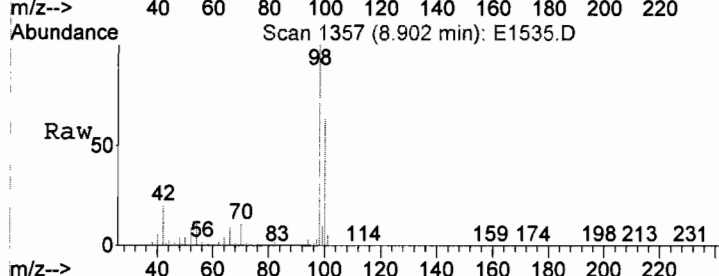
Abundance Ion 114.00 (113.70 to 114.70): E1535.D
 Ion 114.00 (113.70 to 114.70): E1535.D





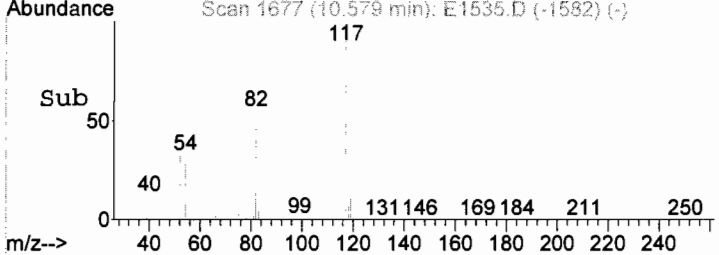
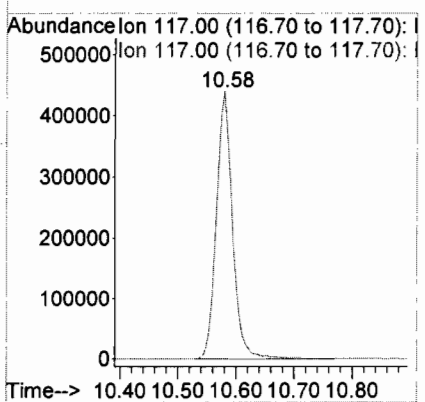
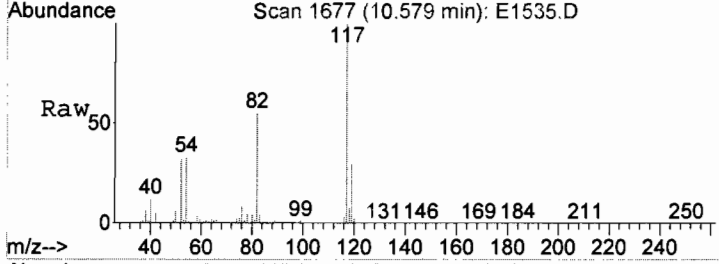
#41
Toluene-d8
Concen: 48.23 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1535.D
Acq: 18 Sep 2017 16:43

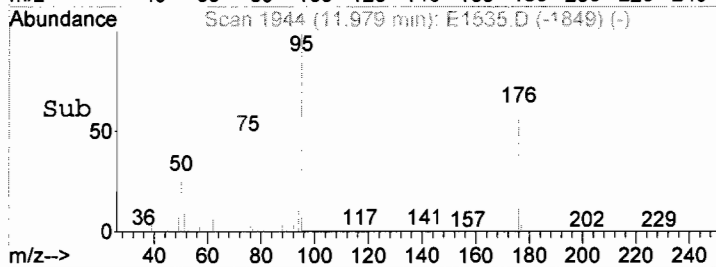
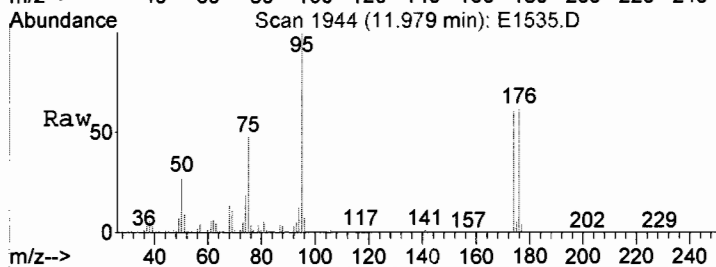
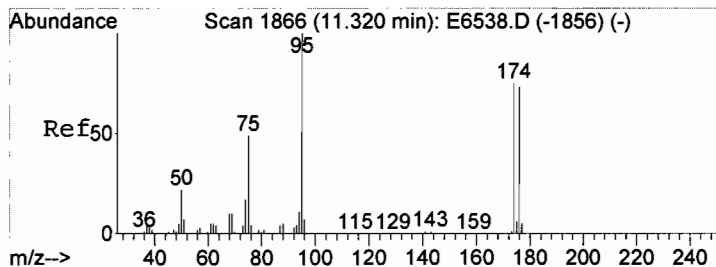
Tgt Ion:	98	Resp:	1322964
Ion	Ratio	Lower	Upper
98	100		
98	100.0	80.0	120.0
100	62.1	53.4	80.0



#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1535.D
Acq: 18 Sep 2017 16:43

Tgt Ion:	117	Resp:	848153
Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0





#59

Bromofluorobenzene

Concen: 47.58 UG

RT: 11.98 min Scan# 1944

Delta R.T. 0.00 min

Lab File: E1535.D

Acq: 18 Sep 2017 16:43

Tgt Ion: 95 Resp: 473945

Ion Ratio Lower Upper

95 100

95 100.0 80.0 120.0

174 66.6 62.9 94.3

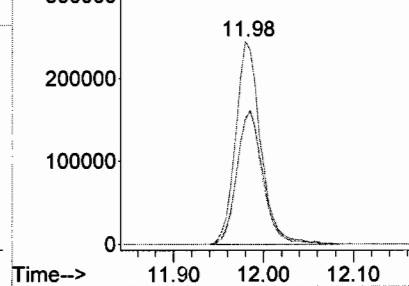
176 69.0 60.5 90.7

Abundance Ion 95.05 (94.75 to 95.75): E15

Ion 95.05 (94.75 to 95.75): E15

Ion 174.00 (173.70 to 174.70): E15

Ion 175.95 (175.65 to 176.65): E15



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1535.D
Acq On : 18 Sep 2017 16:43
Operator : BARBARA
Sample : MW-13, E17-07838-006, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.1
Stop Thrs : 0.1
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.217	64	82	115	rVB5	7284	58557	1.18%	0.263%
2	2.762	170	186	229	rVB	1443144	4958957	100.00%	22.309%
3	3.234	266	276	319	rVB3	24219	111992	2.26%	0.504%
4	3.711	355	367	400	rVV3	128594	526608	10.62%	2.369%
5	3.952	400	413	441	rVB3	63051	270381	5.45%	1.216%
6	5.137	627	639	666	rBV	147818	403746	8.14%	1.816%
7	5.808	763	767	781	rVB6	18339	51570	1.04%	0.232%
8	6.406	869	881	920	rBV2	818028	1964516	39.62%	8.838%
9	6.736	929	944	977	rBV	583401	1428733	28.81%	6.427%
10	7.229	1026	1038	1063	rBV	1311510	2803122	56.53%	12.610%
11	7.544	1085	1098	1104	rBV3	35422	83489	1.68%	0.376%
12	7.612	1104	1111	1131	rVB5	34375	112789	2.27%	0.507%
13	8.902	1347	1357	1401	rBV	1854754	3861299	77.87%	17.371%
14	10.579	1665	1677	1720	rBV	1540398	3135525	63.23%	14.106%
15	11.985	1926	1945	1971	rBV	1198300	2457704	49.56%	11.056%

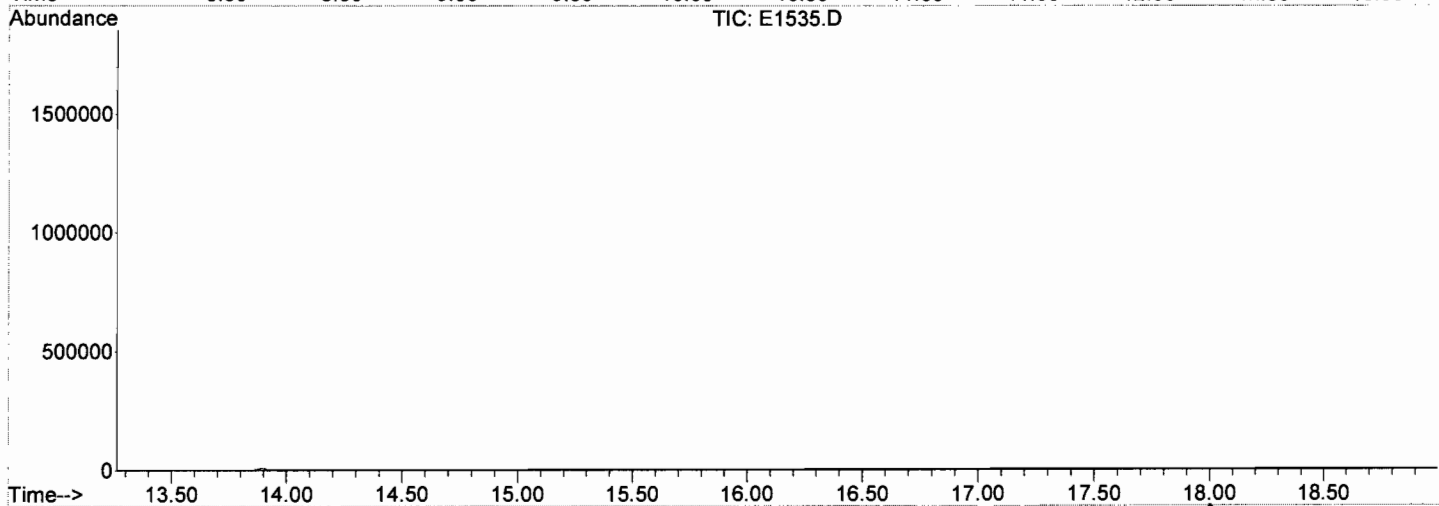
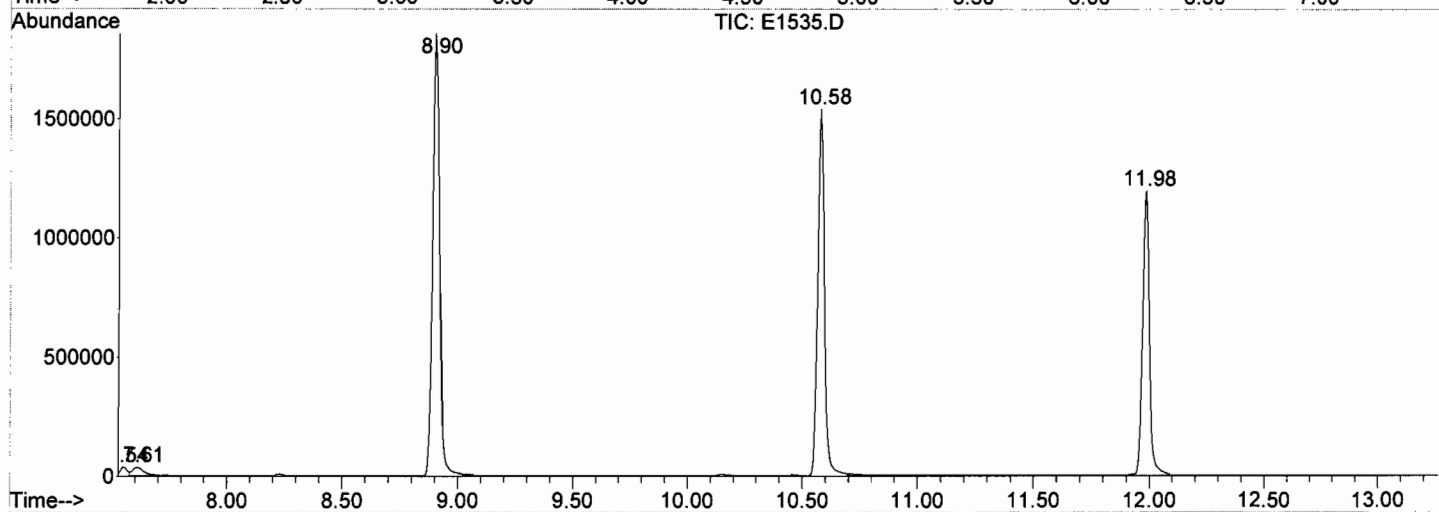
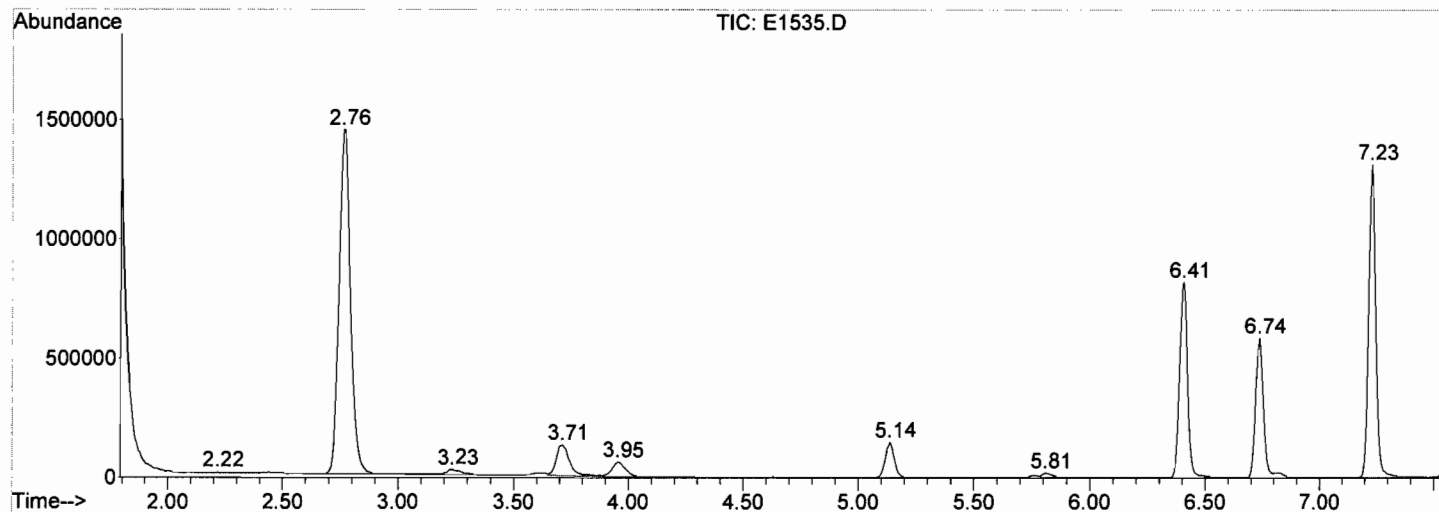
Sum of corrected areas: 22228988

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1535.D
Acq On : 18 Sep 2017 16:43
Operator : BARBARA
Sample : MW-13, E17-07838-006, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P



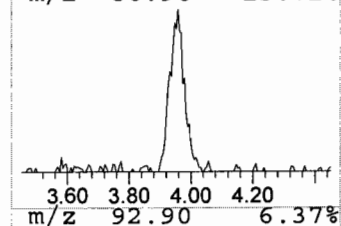
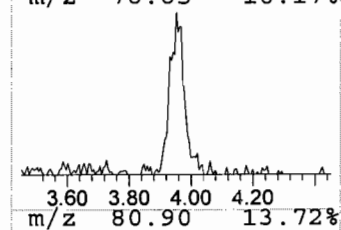
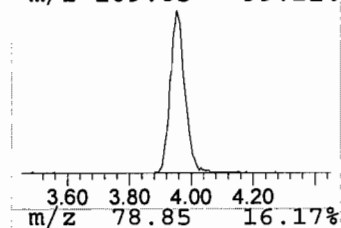
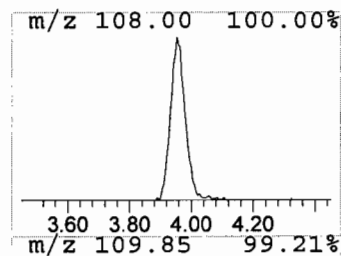
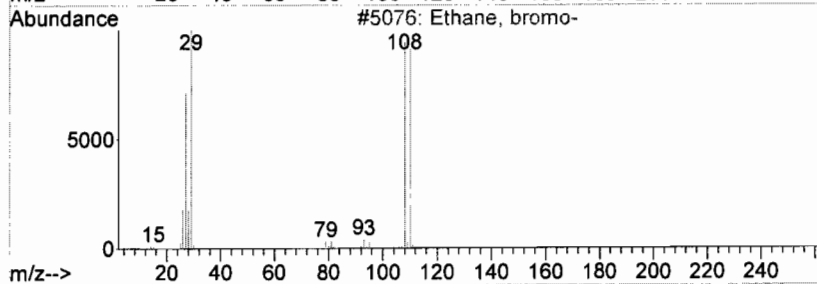
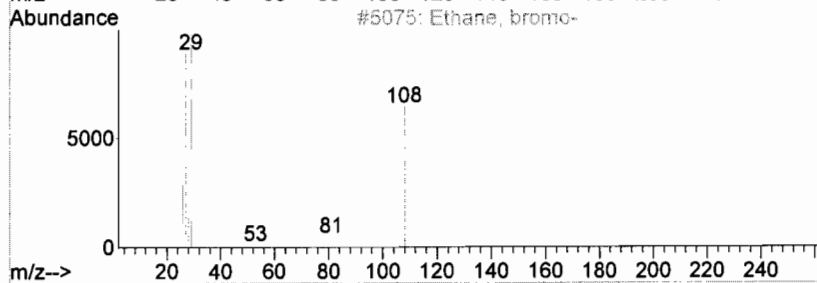
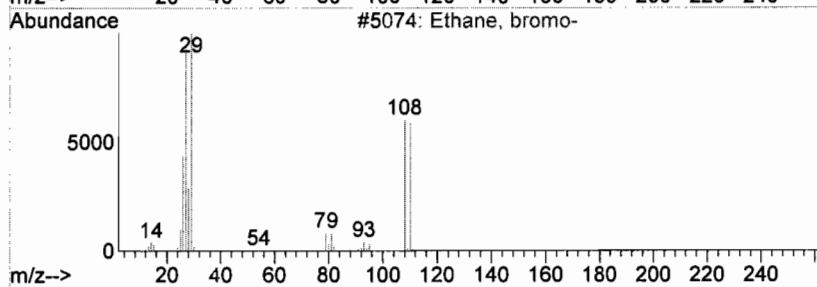
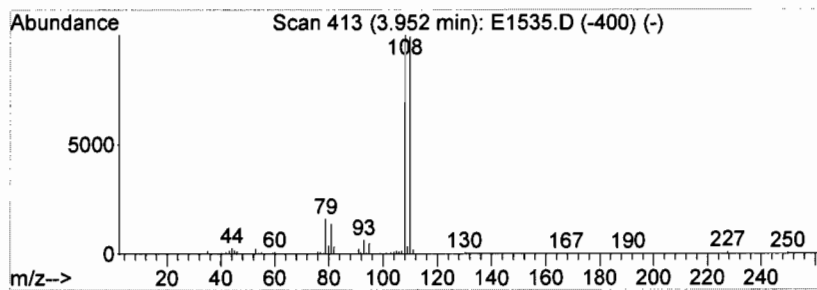
Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1535.D
Acq On : 18 Sep 2017 16:43
Operator : BARBARA
Sample : MW-13, E17-07838-006, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Ethane, bromo- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
3.95	6.88 UG	270381	Pentafluorobenzene	6.41	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, bromo-	108	C2H5Br	000074-96-4	86
2	Ethane, bromo-	108	C2H5Br	000074-96-4	86
3	Ethane, bromo-	108	C2H5Br	000074-96-4	80
4	1,2-Benzenediamine	108	C6H8N2	000095-54-5	9
5	2-Methyl-1-vinylimidazole	108	C6H8N2	002851-95-8	9



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1542.D
Acq On : 18 Sep 2017 20:11
Operator : BARBARA
Sample : MW-13,E17-07838-006DL,A,1mL,100
Misc : BVERITAS/LEXINGTON,09/12/17,09/14/17,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 19 09:42:41 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	573315	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1062412	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	852728	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	410102	42.07	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	84.14%
41) Toluene-d8	8.90	98	1339745	49.31	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.62%
59) Bromofluorobenzene	11.98	95	462802	46.22	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	92.44%

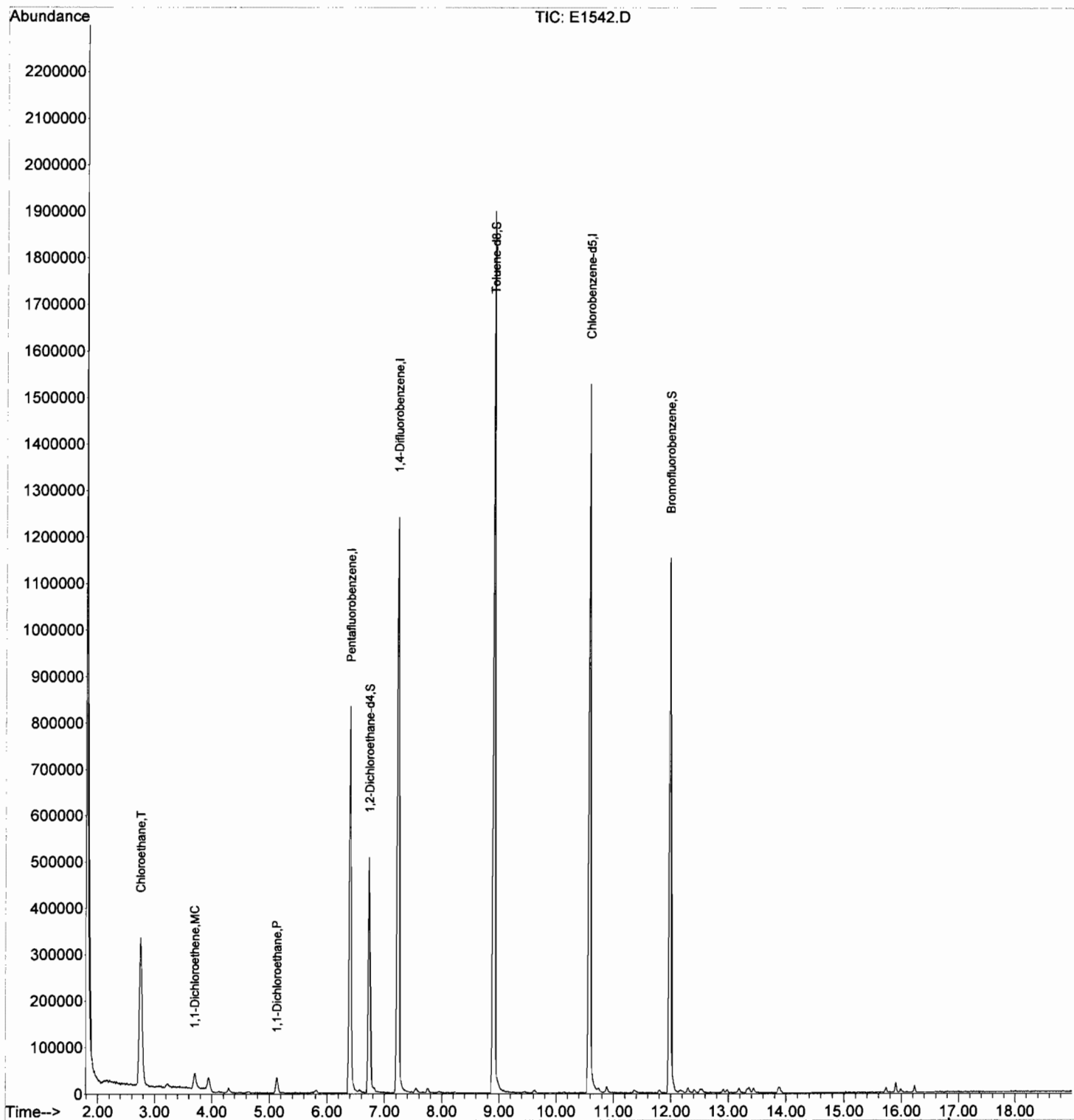
Target Compounds

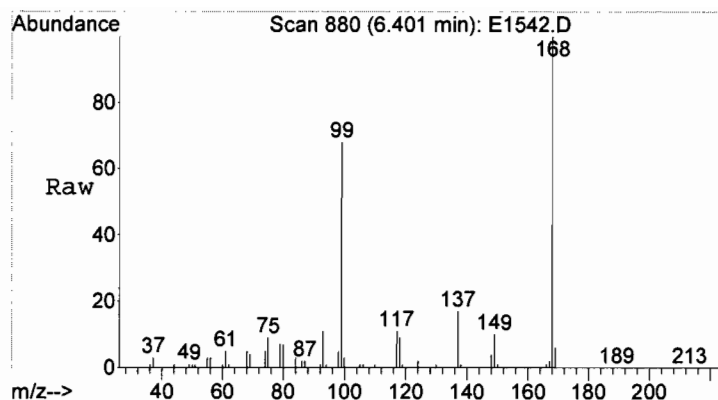
						Qvalue
6) Chloroethane	2.76	64	507135	133.01	UG	# 100
9) 1,1-Dichloroethene	3.70	96	17554	2.74	UG	# 100
18) 1,1-Dichloroethane	5.13	63	43165	3.04	UG	# 84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1542.D
Acq On : 18 Sep 2017 20:11
Operator : BARBARA
Sample : MW-13, E17-07838-006DL, A, 1mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 16 Sample Multiplier: 1

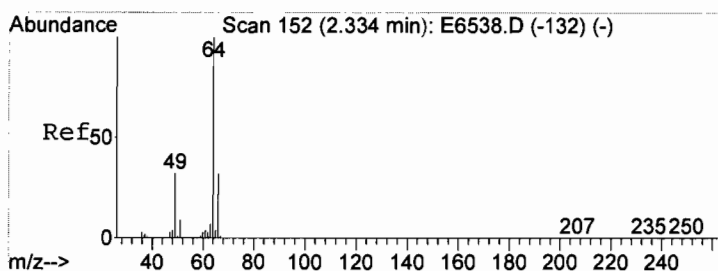
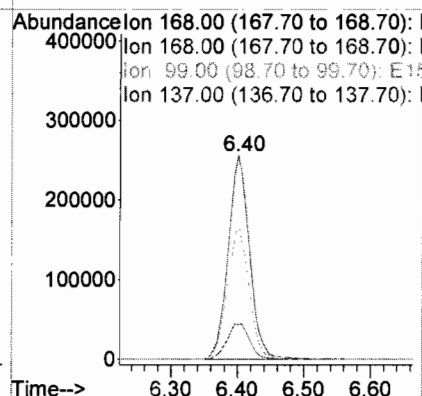
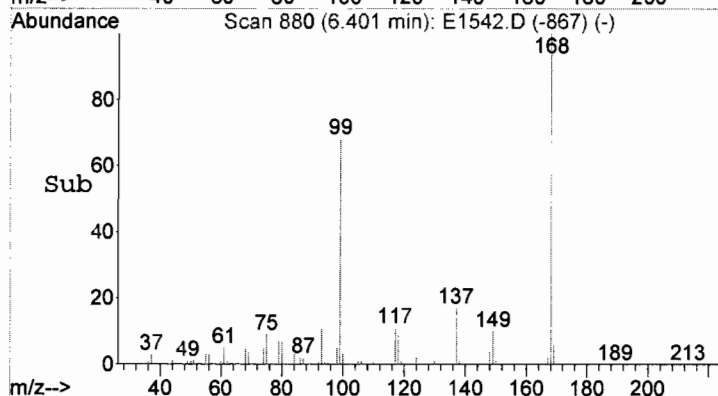
Quant Time: Sep 19 09:42:41 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





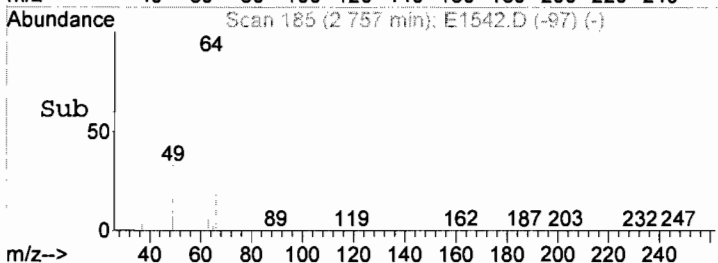
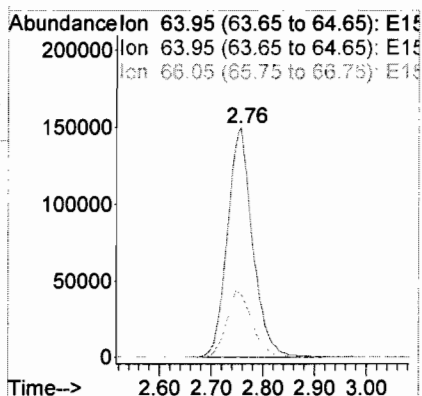
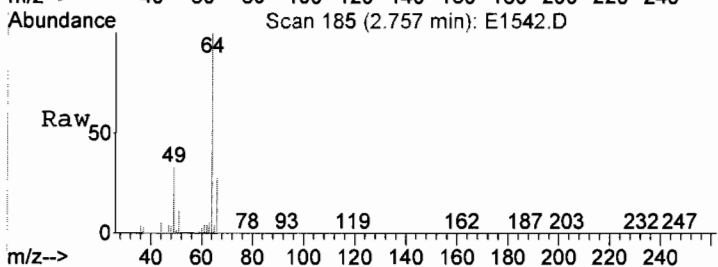
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. -0.00 min
Lab File: E1542.D
Acq: 18 Sep 2017 20:11

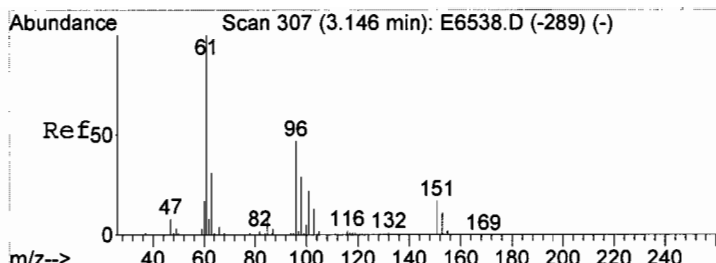
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	67.6	0.0	0.0#
137	0.0	0.0	0.0



#6
Chloroethane
Concen: 133.01 UG
RT: 2.76 min Scan# 185
Delta R.T. -0.04 min
Lab File: E1542.D
Acq: 18 Sep 2017 20:11

Tgt Ion	Ratio	Lower	Upper
64	100		
64	100.0	80.0	120.0
66	0.0	0.0	0.0

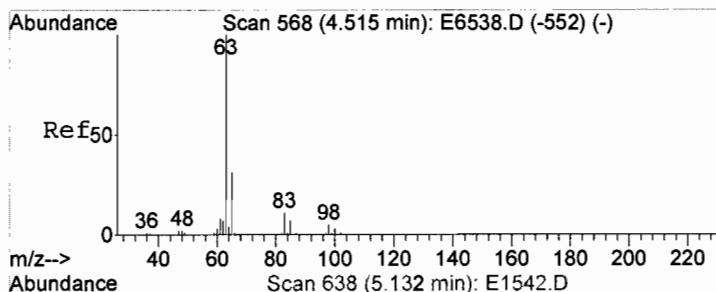
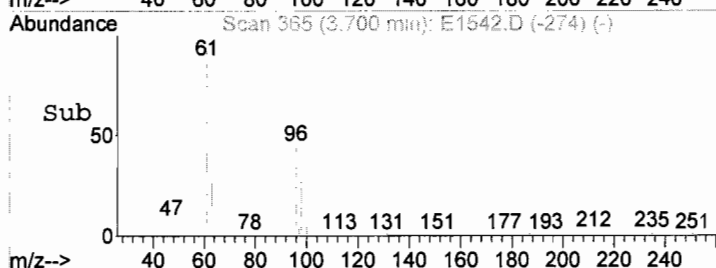
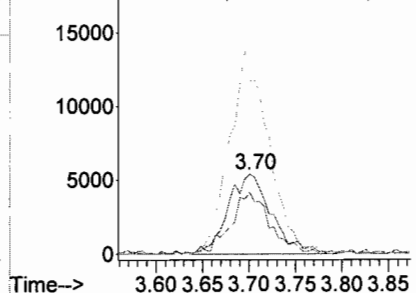




#9
1,1-Dichloroethene
Concen: 2.74 UG
RT: 3.70 min Scan# 365
Delta R.T. -0.02 min
Lab File: E1542.D
Acq: 18 Sep 2017 20:11

Tgt Ion:	96	Resp:	17554
Ion	Ratio	Lower	Upper
96	100		
96	100.0	80.0	120.0
61	0.0	0.0	0.0
63	0.0	0.0	0.0

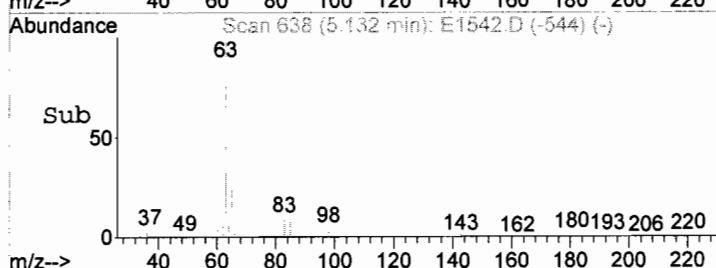
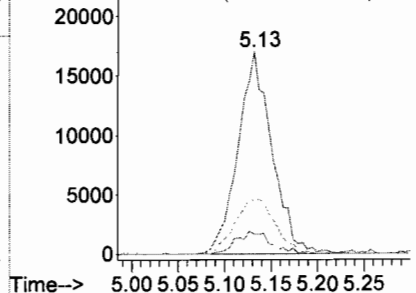
Abundance Ion 95.85 (95.55 to 96.55): E15
Ion 95.85 (95.55 to 96.55): E15
Ion 61.05 (60.75 to 61.75): E15
Ion 63.05 (62.75 to 63.75): E15

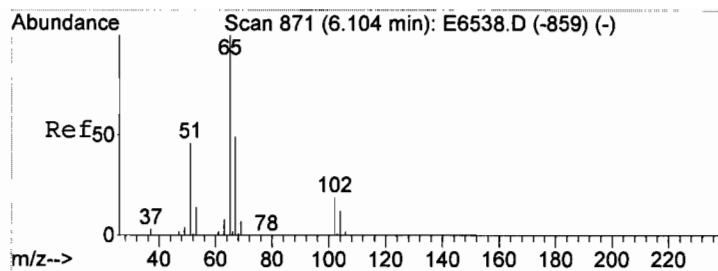


#18
1,1-Dichloroethane
Concen: 3.04 UG
RT: 5.13 min Scan# 638
Delta R.T. -0.01 min
Lab File: E1542.D
Acq: 18 Sep 2017 20:11

Tgt Ion:	63	Resp:	43165
Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	0.0	25.6	38.4#
83	0.0	11.3	16.9#

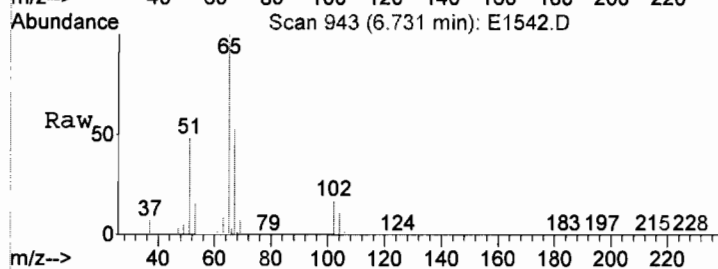
Abundance Ion 62.95 (62.65 to 63.65): E15
Ion 62.95 (62.65 to 63.65): E15
Ion 64.95 (64.65 to 65.65): E15
Ion 83.10 (82.80 to 83.80): E15





#30
 1,2-Dichloroethane-d4
 Concen: 42.07 UG
 RT: 6.73 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: E1542.D
 Acq: 18 Sep 2017 20:11

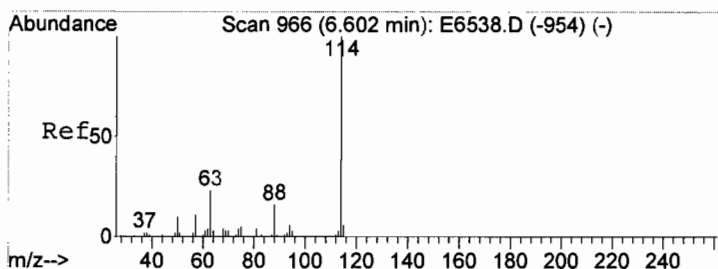
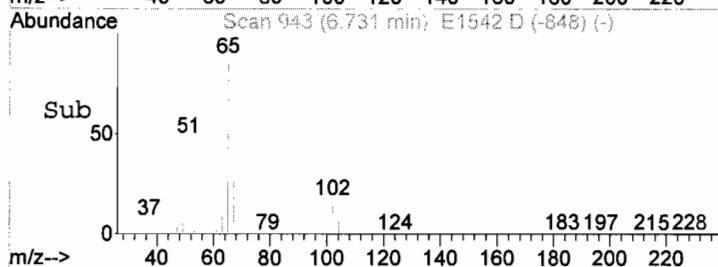
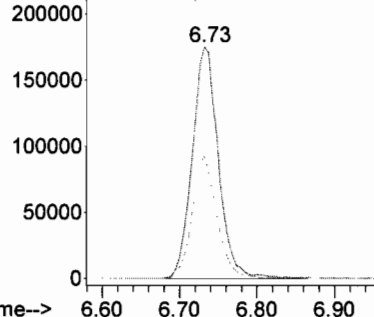
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	49.9	43.2	64.8



Abundance Ion 65.15 (64.85 to 65.85): E1542.D

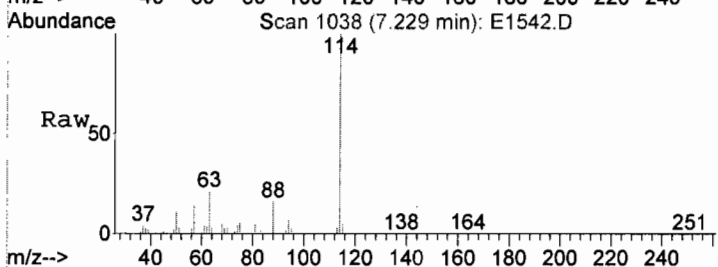
Ion 65.15 (64.85 to 65.85): E1542.D

Ion 67.15 (66.85 to 67.85): E1542.D



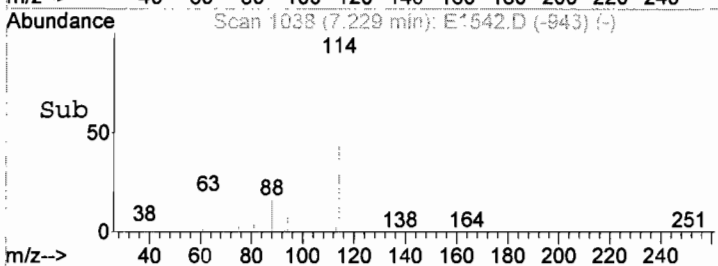
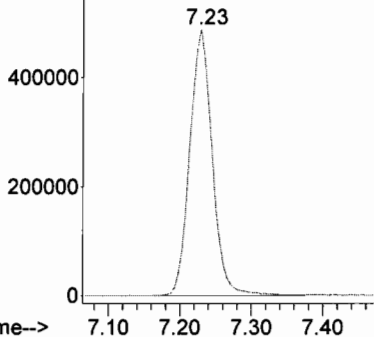
#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.23 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: E1542.D
 Acq: 18 Sep 2017 20:11

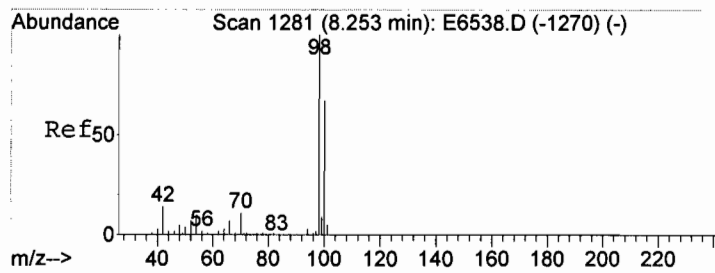
Tgt Ion	Ratio	Lower	Upper
114	100		
114	100.0	80.0	120.0



Abundance Ion 114.00 (113.70 to 114.70): E1542.D

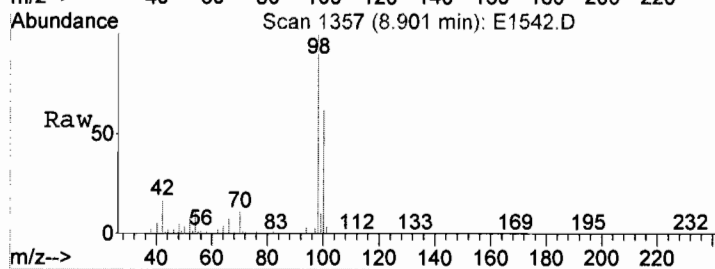
Ion 114.00 (113.70 to 114.70): E1542.D



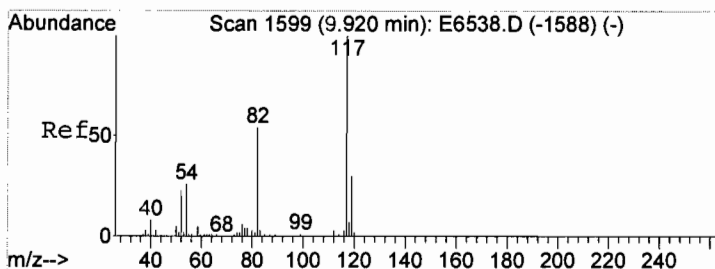
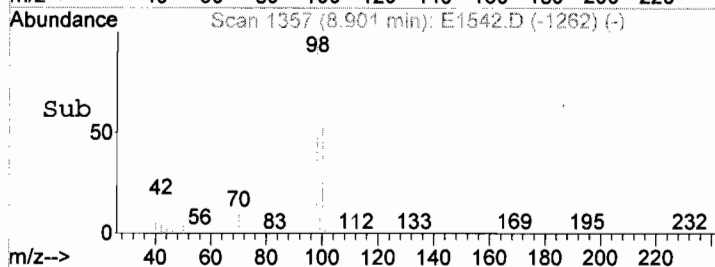
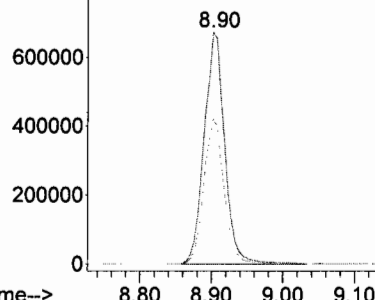


#41
Toluene-d8
Concen: 49.31 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1542.D
Acq: 18 Sep 2017 20:11

Tgt Ion: 98 Resp: 1339745
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 62.1 53.4 80.0

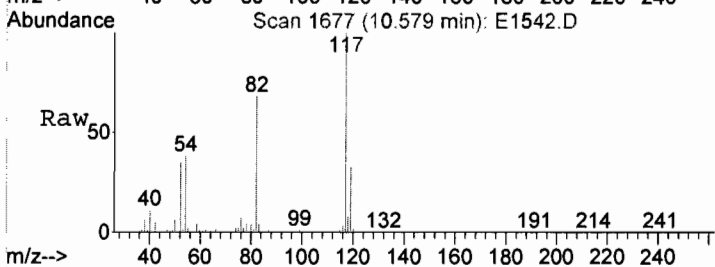


Abundance Ion 98.00 (97.70 to 98.70): E1542.D
Ion 98.00 (97.70 to 98.70): E1542.D
Ion 100.00 (99.70 to 100.70): E1542.D

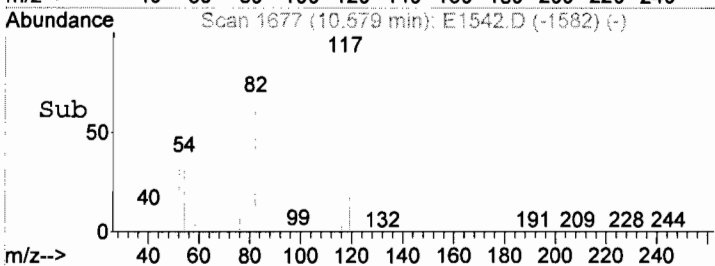
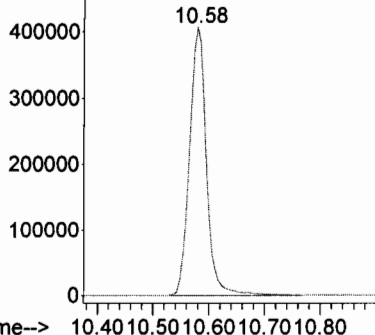


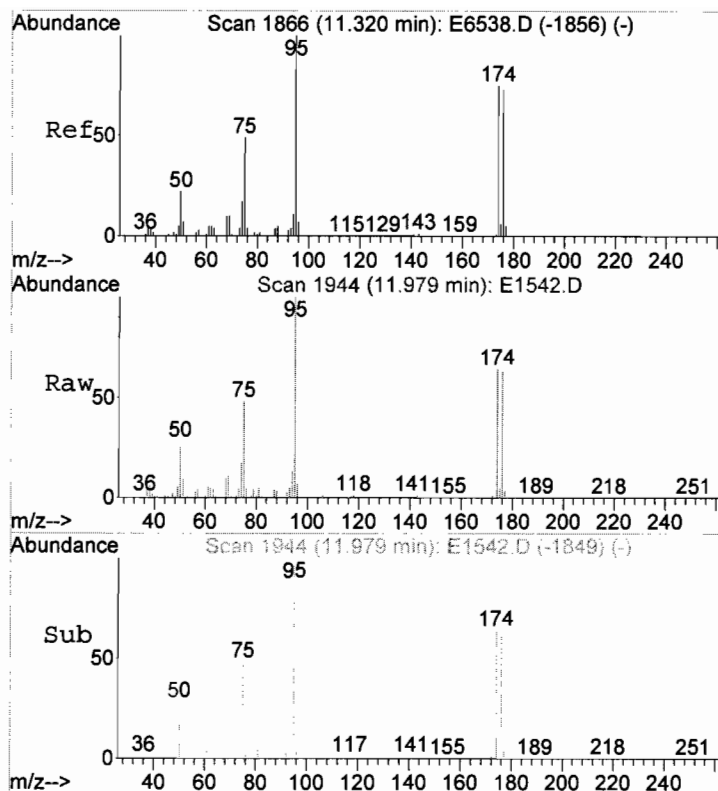
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1542.D
Acq: 18 Sep 2017 20:11

Tgt Ion: 117 Resp: 852728
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



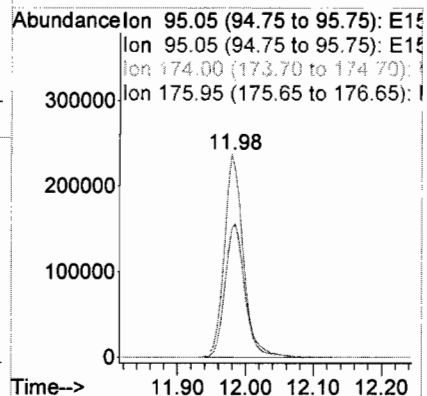
Abundance Ion 117.00 (116.70 to 117.70): E1542.D
Ion 117.00 (116.70 to 117.70): E1542.D





#59
 Bromofluorobenzene
 Concen: 46.22 UG
 RT: 11.98 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: E1542.D
 Acq: 18 Sep 2017 20:11

Tgt Ion: 95 Resp: 462802
 Ion Ratio Lower Upper
 95 100
 95 100.0 80.0 120.0
 174 67.9 62.9 94.3
 176 68.8 60.5 90.7



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1536.D
Acq On : 18 Sep 2017 17:13
Operator : BARBARA
Sample : MW-2, E17-07838-007, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 15:12:12 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	591118	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1111103	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	868656	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	500018	49.75	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	99.50%
41) Toluene-d8	8.90	98	1357736	47.79	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.58%
59) Bromofluorobenzene	11.98	95	489141	47.95	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	95.90%

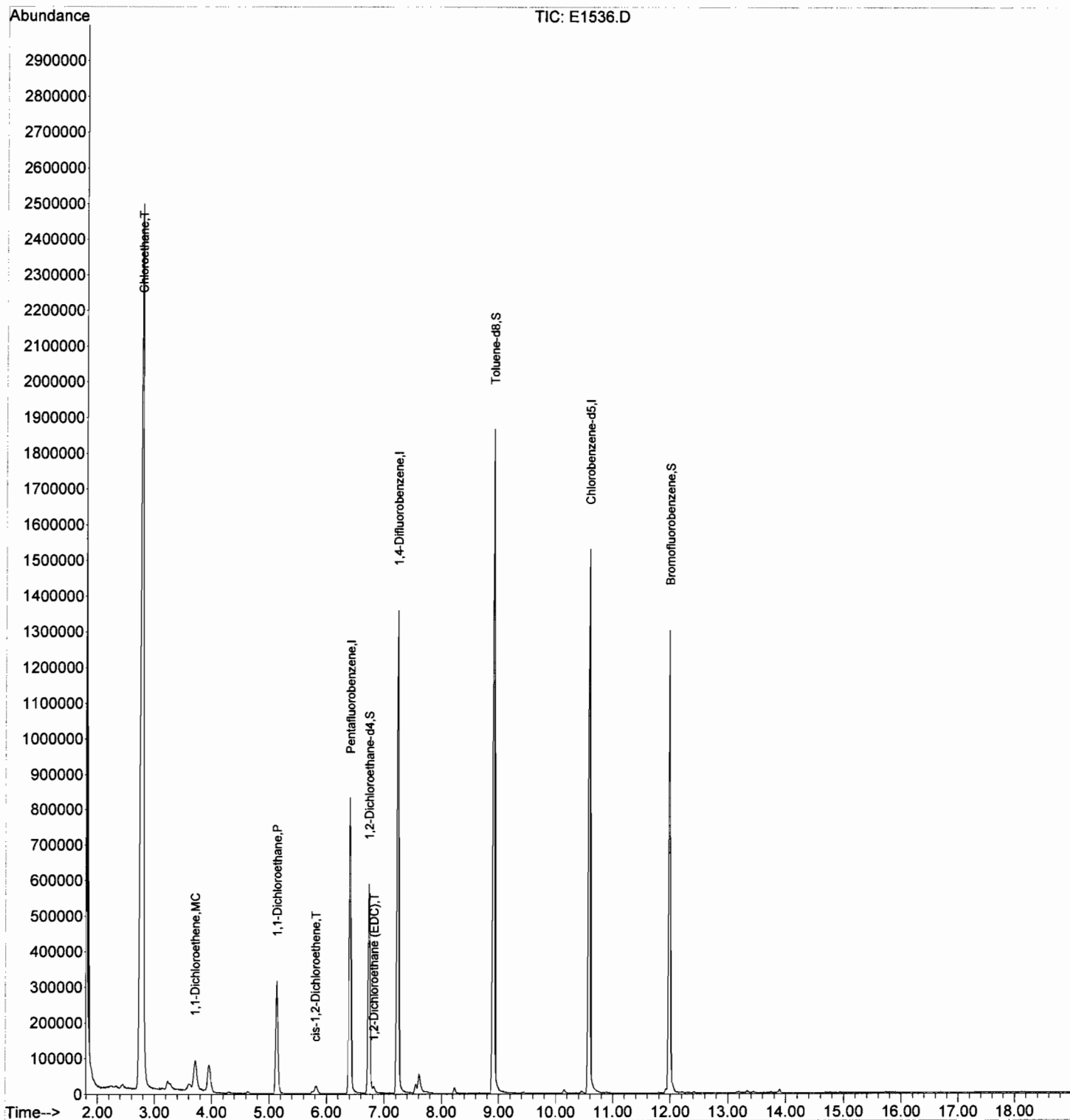
Target Compounds

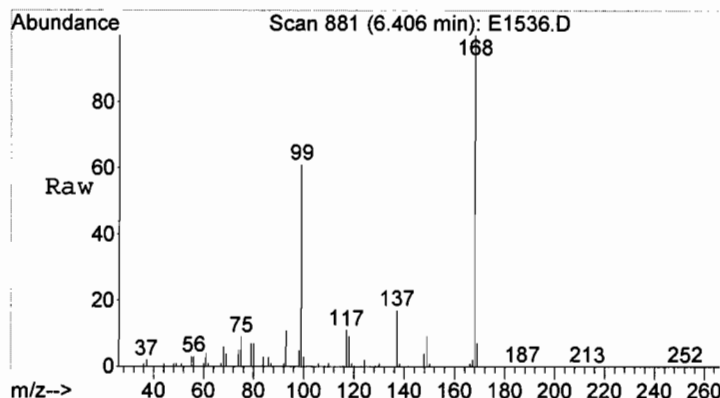
						Qvalue
6) Chloroethane	2.77	64	3844280	977.90	UG	# 100
9) 1,1-Dichloroethene	3.72	96	50518	7.65	UG	# 100
18) 1,1-Dichloroethane	5.14	63	411770	28.12	UG	# 96
20) cis-1,2-Dichloroethene	5.80	96	8015	1.08	UG	# 100
29) 1,2-Dichloroethane (EDC)	6.83	62	10966	0.85	UG	# 97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1536.D
Acq On : 18 Sep 2017 17:13
Operator : BARBARA
Sample : MW-2, E17-07838-007, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 10 Sample Multiplier: 1

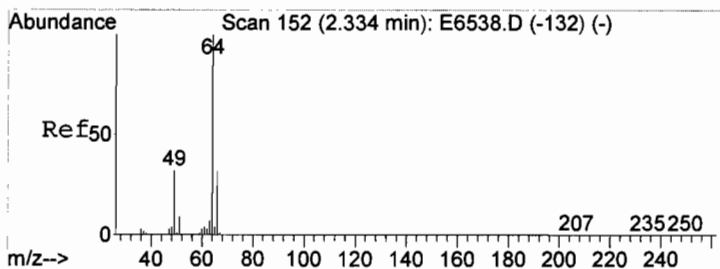
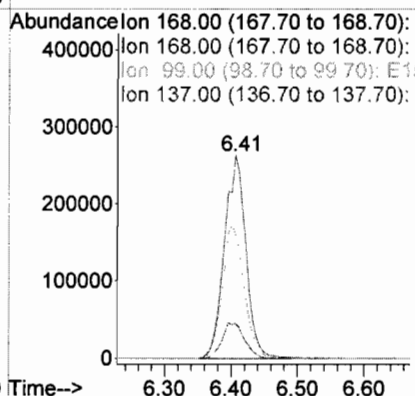
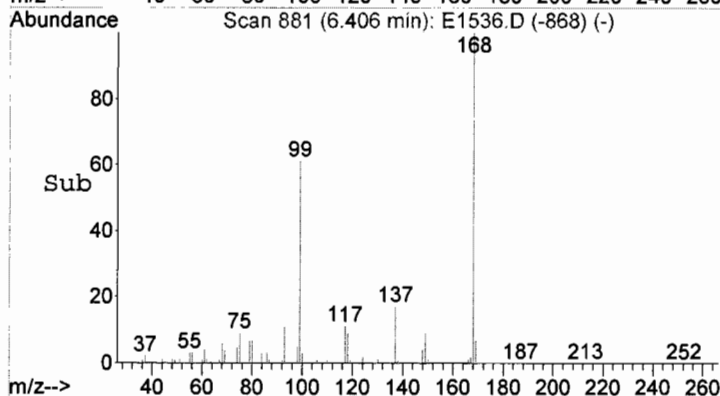
Quant Time: Sep 19 15:12:12 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
Qlast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





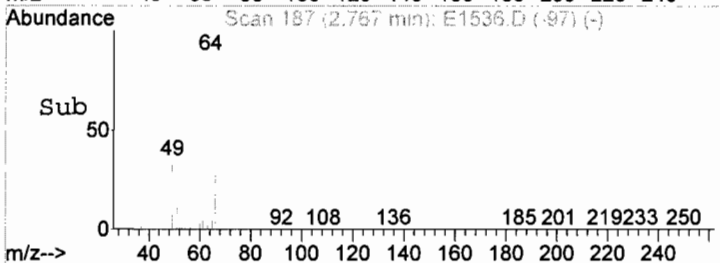
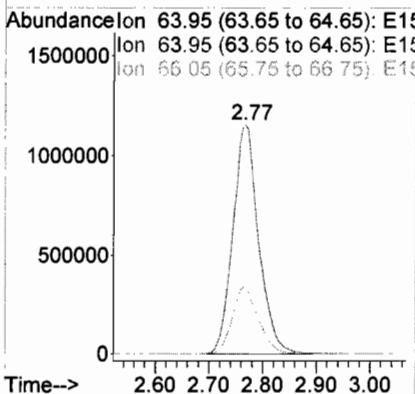
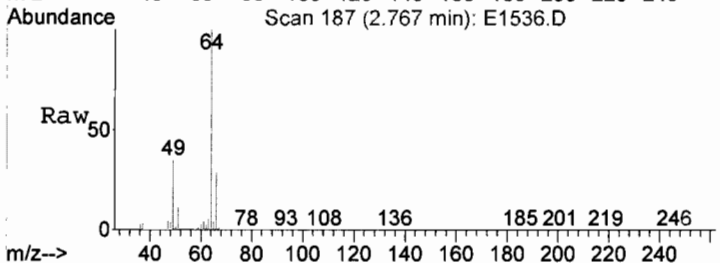
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1536.D
Acq: 18 Sep 2017 17:13

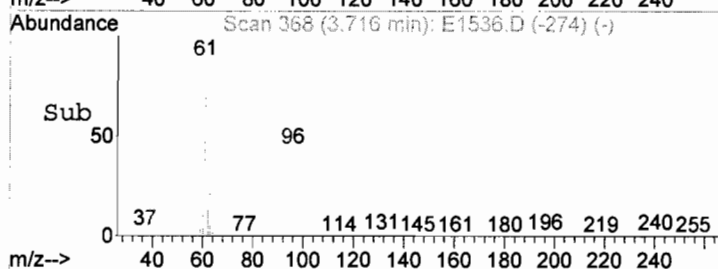
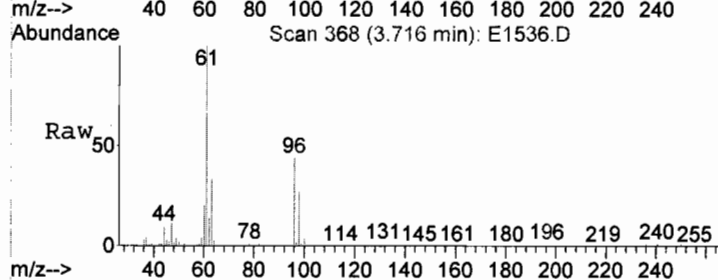
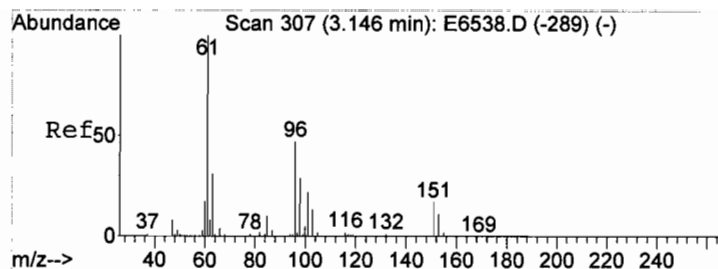
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	66.4	0.0	0.0#
137	18.3	0.0	0.0#



#6
Chloroethane
Concen: 977.90 UG
RT: 2.77 min Scan# 187
Delta R.T. -0.03 min
Lab File: E1536.D
Acq: 18 Sep 2017 17:13

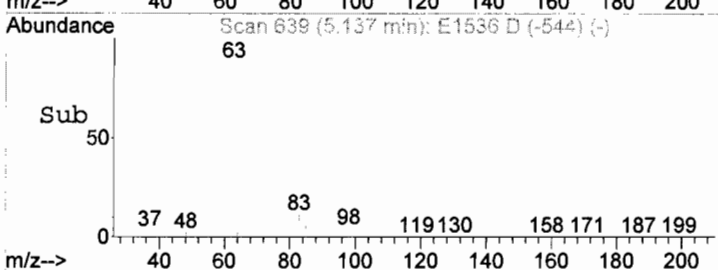
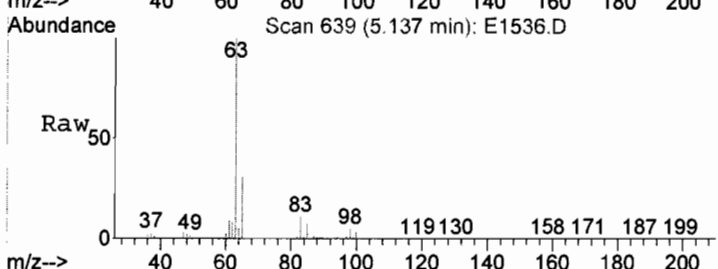
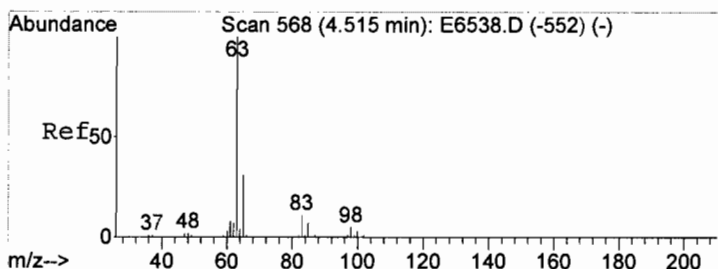
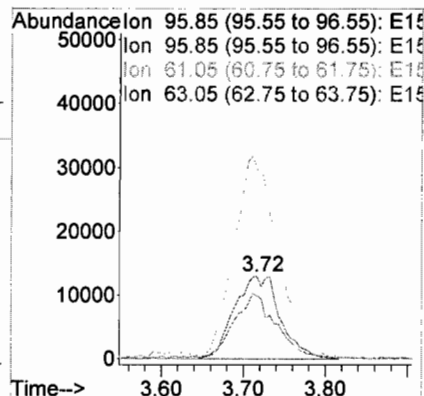
Tgt Ion	Ratio	Lower	Upper
64	100		
64	100.0	80.0	120.0
66	0.0	0.0	0.0





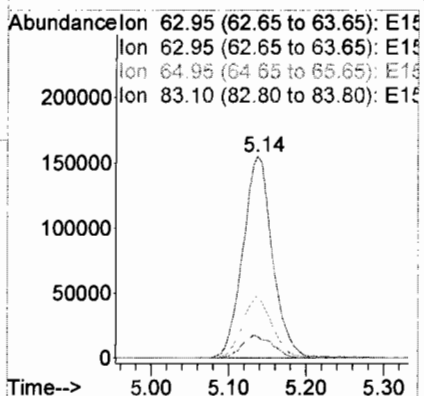
#9
1,1-Dichloroethene
Concen: 7.65 UG
RT: 3.72 min Scan# 368
Delta R.T. -0.01 min
Lab File: E1536.D
Acq: 18 Sep 2017 17:13

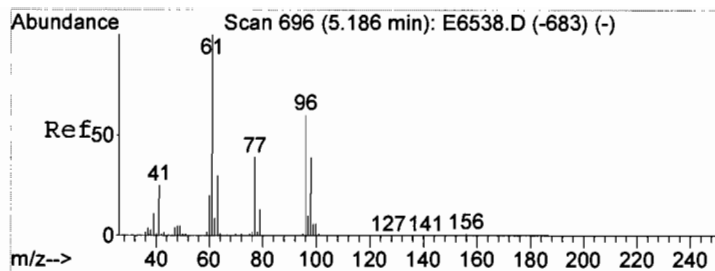
Tgt Ion	Ratio	Lower	Upper
96	100		
96	100.0	80.0	120.0
61	0.0	0.0	0.0
63	0.0	0.0	0.0



#18
1,1-Dichloroethane
Concen: 28.12 UG
RT: 5.14 min Scan# 639
Delta R.T. -0.00 min
Lab File: E1536.D
Acq: 18 Sep 2017 17:13

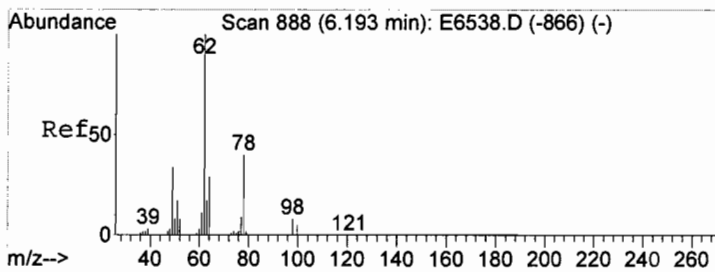
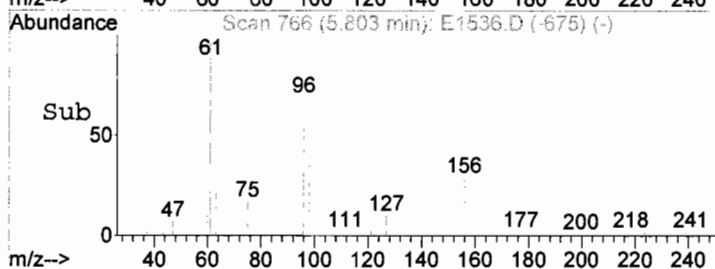
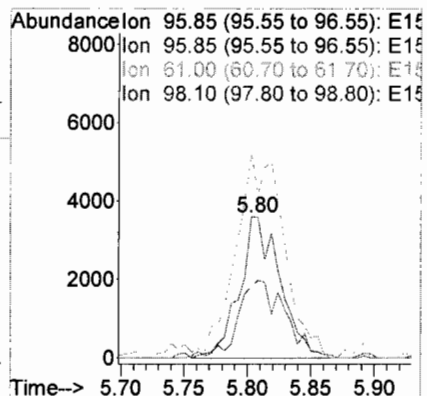
Tgt Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	30.2	25.6	38.4
83	0.0	11.3	16.9#





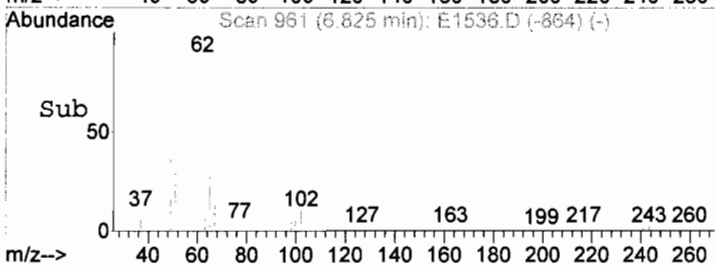
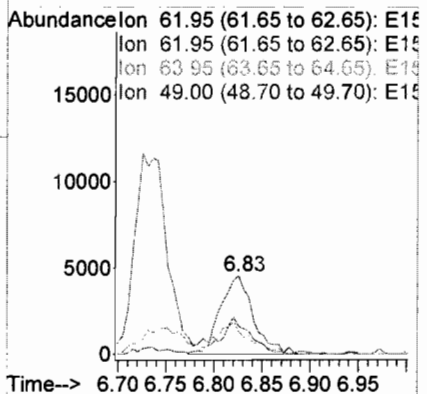
#20
 cis-1,2-Dichloroethene
 Concen: 1.08 UG
 RT: 5.80 min Scan# 766
 Delta R.T. -0.02 min
 Lab File: E1536.D
 Acq: 18 Sep 2017 17:13

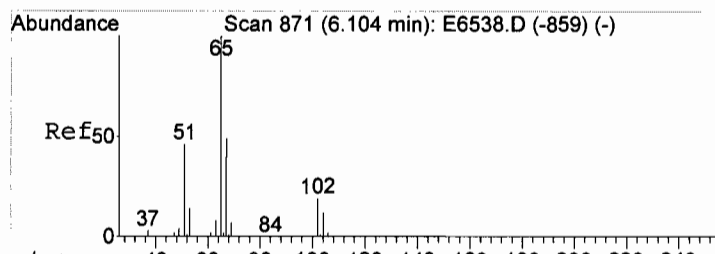
Tgt Ion: 96 Resp: 8015
 Ion Ratio Lower Upper
 96 100
 96 100.0 80.0 120.0
 61 0.0 0.0 0.0
 98 63.5 0.0 0.0#



#29
 1,2-Dichloroethane (EDC)
 Concen: 0.85 UG
 RT: 6.83 min Scan# 961
 Delta R.T. 0.01 min
 Lab File: E1536.D
 Acq: 18 Sep 2017 17:13

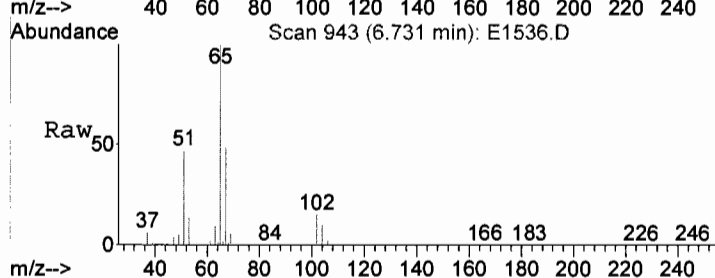
Tgt Ion: 62 Resp: 10966
 Ion Ratio Lower Upper
 62 100
 62 100.0 90.0 110.0
 64 38.2 29.1 35.5#
 49 44.0 0.0 0.0#



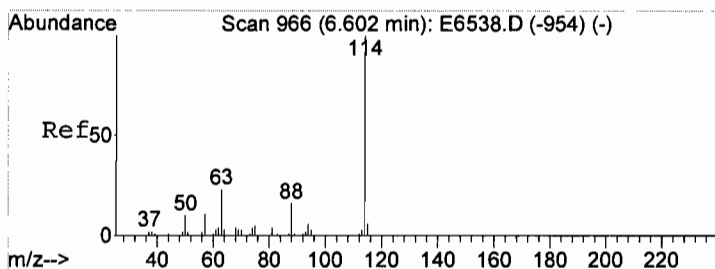
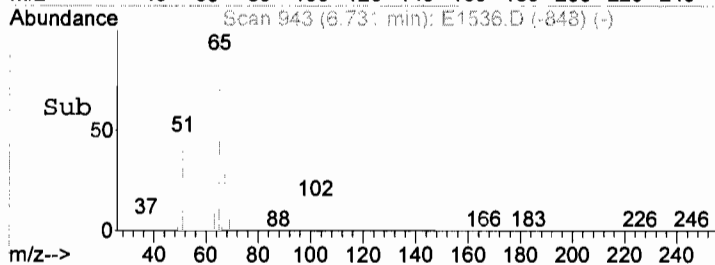
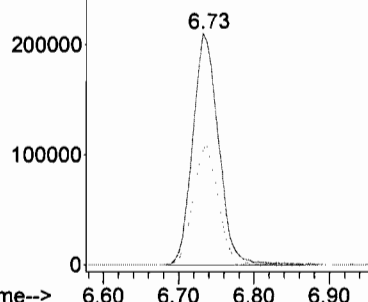


#30
 1,2-Dichloroethane-d4
 Concen: 49.75 UG
 RT: 6.73 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: E1536.D
 Acq: 18 Sep 2017 17:13

Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.9	43.2	64.8

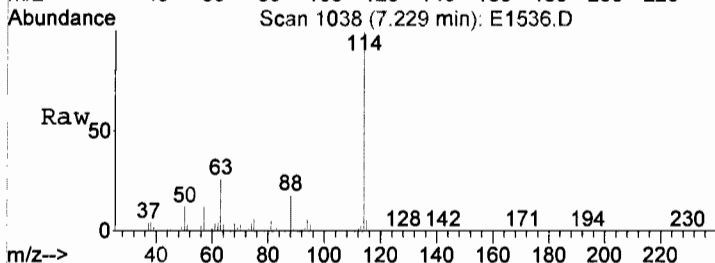


Abundance Ion 65.15 (64.85 to 65.85): E1536.D
 Ion 65.15 (64.85 to 65.85): E1536.D
 Ion 67.15 (66.85 to 67.85): E1536.D

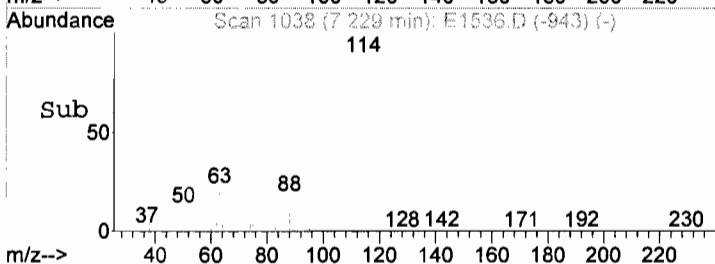
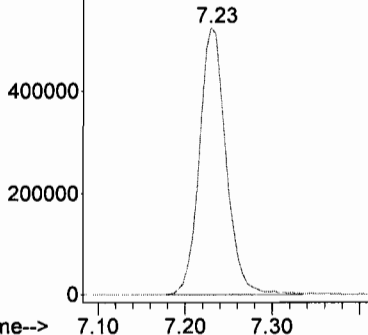


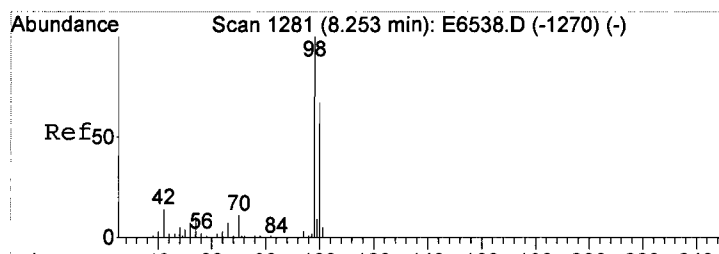
#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.23 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: E1536.D
 Acq: 18 Sep 2017 17:13

Tgt Ion	Ratio	Lower	Upper
114	100		
114	100.0	80.0	120.0



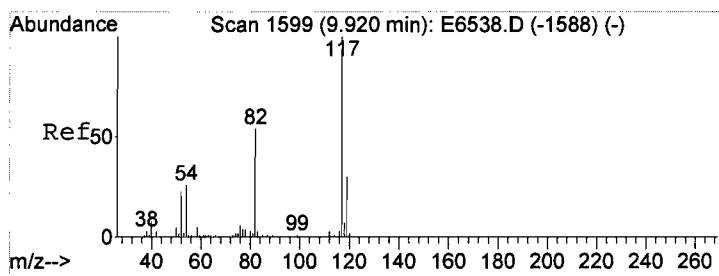
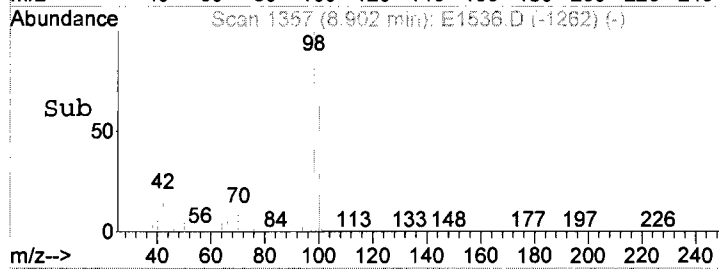
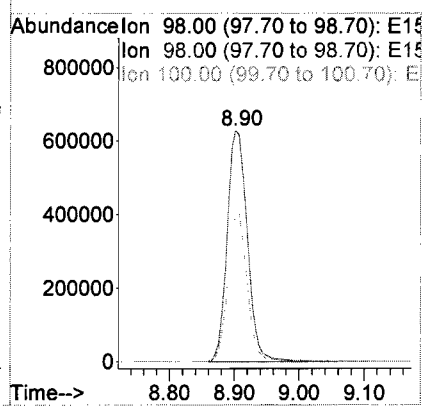
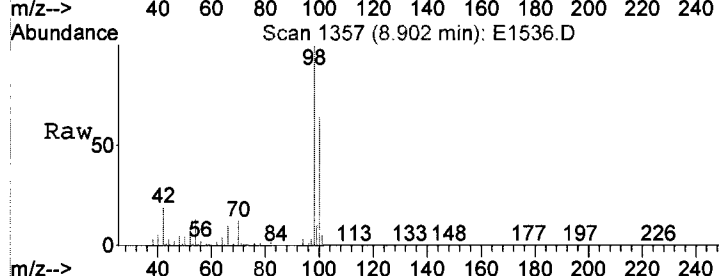
Abundance Ion 114.00 (113.70 to 114.70): E1536.D
 Ion 114.00 (113.70 to 114.70): E1536.D





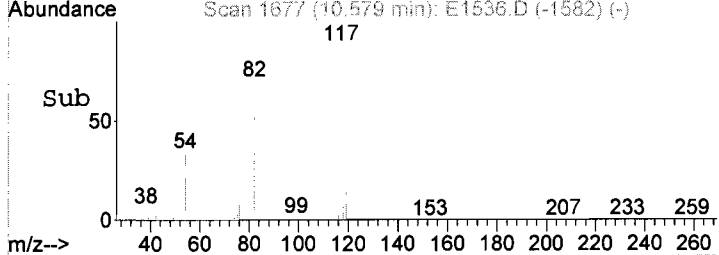
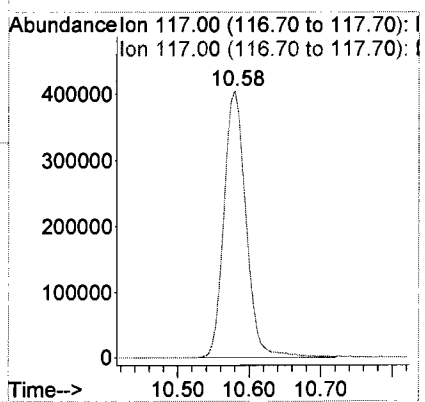
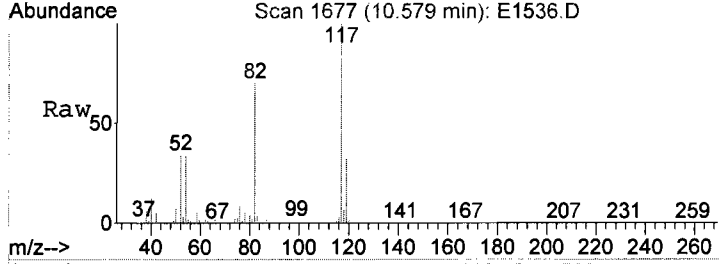
#41
Toluene-d8
Concen: 47.79 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1536.D
Acq: 18 Sep 2017 17:13

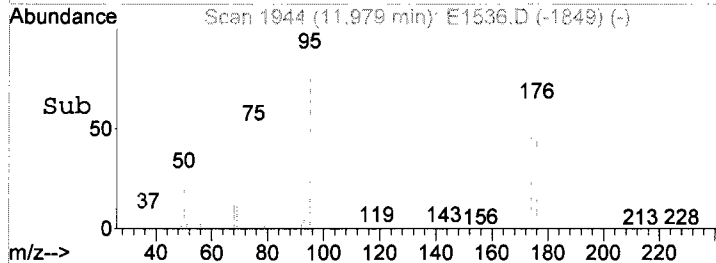
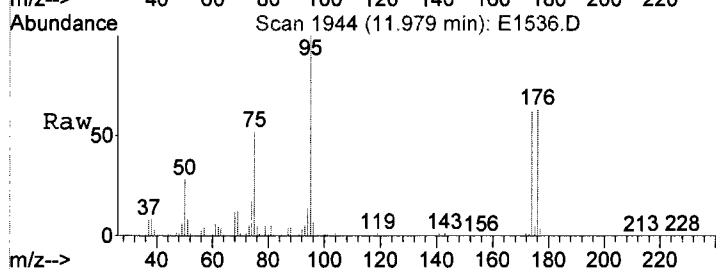
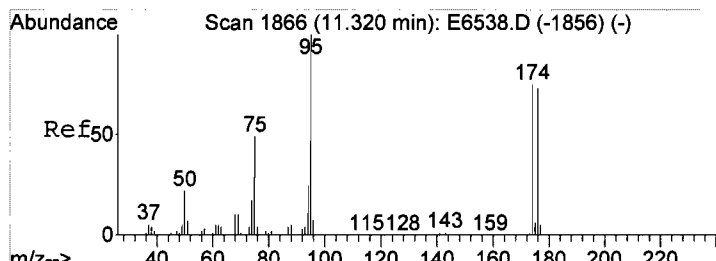
Tgt Ion:	98	Resp:	1357736
Ion	Ratio	Lower	Upper
98	100		
98	100.0	80.0	120.0
100	62.2	53.4	80.0



#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1536.D
Acq: 18 Sep 2017 17:13

Tgt Ion:	117	Resp:	868656
Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0





#59

Bromofluorobenzene

Concen: 47.95 UG

RT: 11.98 min Scan# 1944

Delta R.T. -0.00 min

Lab File: E1536.D

Acq: 18 Sep 2017 17:13

Tgt Ion: 95 Resp: 489141

Ion Ratio Lower Upper

95 100

95 100.0 80.0 120.0

174 67.7 62.9 94.3

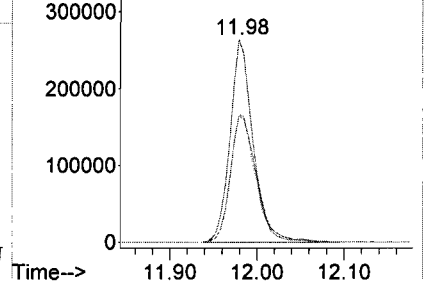
176 69.7 60.5 90.7

Abundance Ion 95.05 (94.75 to 95.75): E15

Ion 95.05 (94.75 to 95.75): E15

Ion 174.00 (173.70 to 174.70): E15

Ion 175.95 (175.65 to 176.65): E15



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1536.D
Acq On : 18 Sep 2017 17:13
Operator : BARBARA
Sample : MW-2, E17-07838-007, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.767	169	187	246	rVB	2485060	8406027	100.00%	31.888%
2	3.234	267	276	319	rVB4	25958	149240	1.78%	0.566%
3	3.711	357	367	396	rVB2	83867	352569	4.19%	1.337%
4	3.952	399	413	439	rVB4	77603	319575	3.80%	1.212%
5	5.137	626	639	654	rBV	315011	843861	10.04%	3.201%
6	6.406	866	881	908	rBV3	832752	1995977	23.74%	7.572%
7	6.736	929	944	956	rBV	587241	1422936	16.93%	5.398%
8	7.229	1026	1038	1072	rBV	1358718	2904920	34.56%	11.020%
9	7.607	1103	1110	1135	rVB4	50404	161231	1.92%	0.612%
10	8.902	1346	1357	1402	rBV	1867408	3987465	47.44%	15.126%
11	10.579	1665	1677	1721	rBV2	1531356	3280176	39.02%	12.443%
12	11.979	1936	1944	1971	rVB	1303078	2536819	30.18%	9.623%

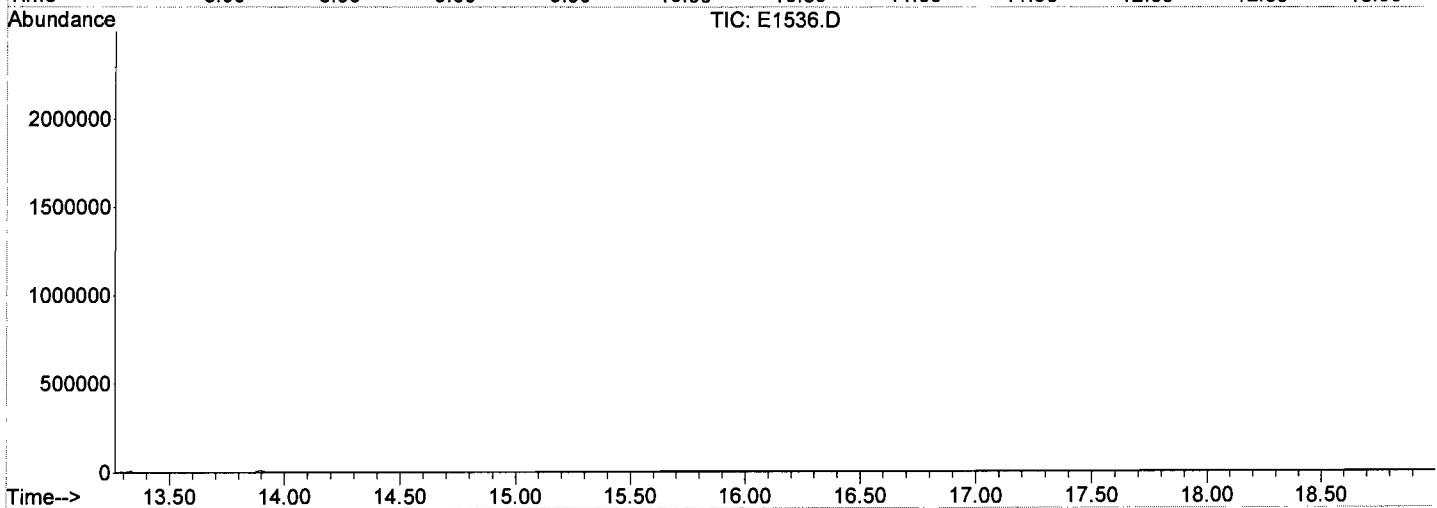
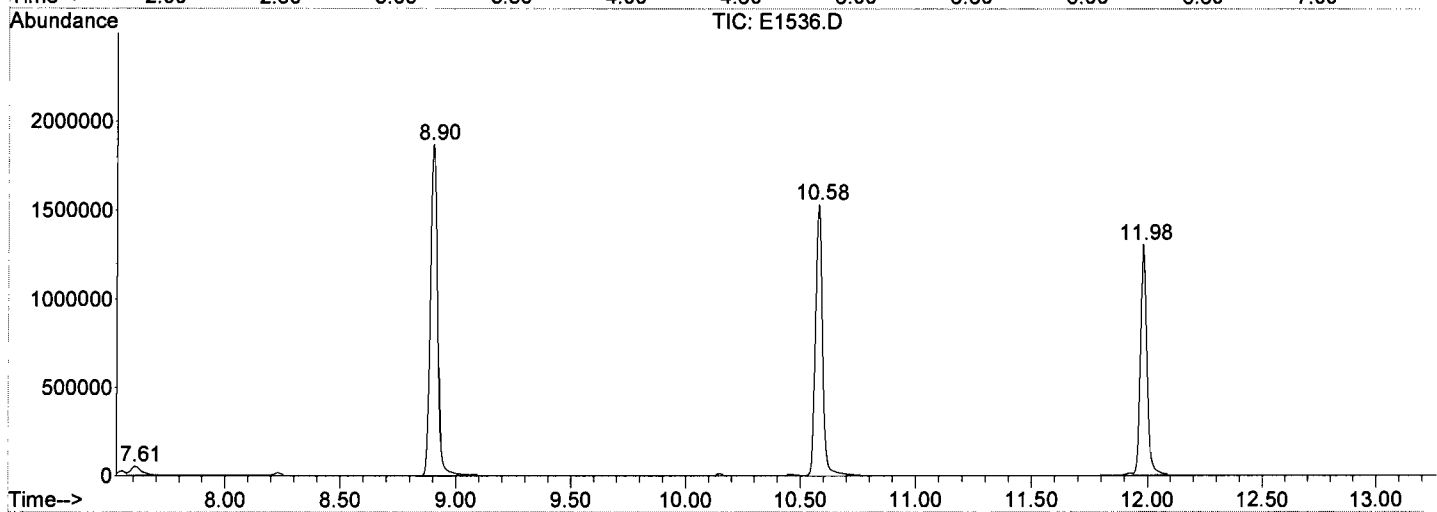
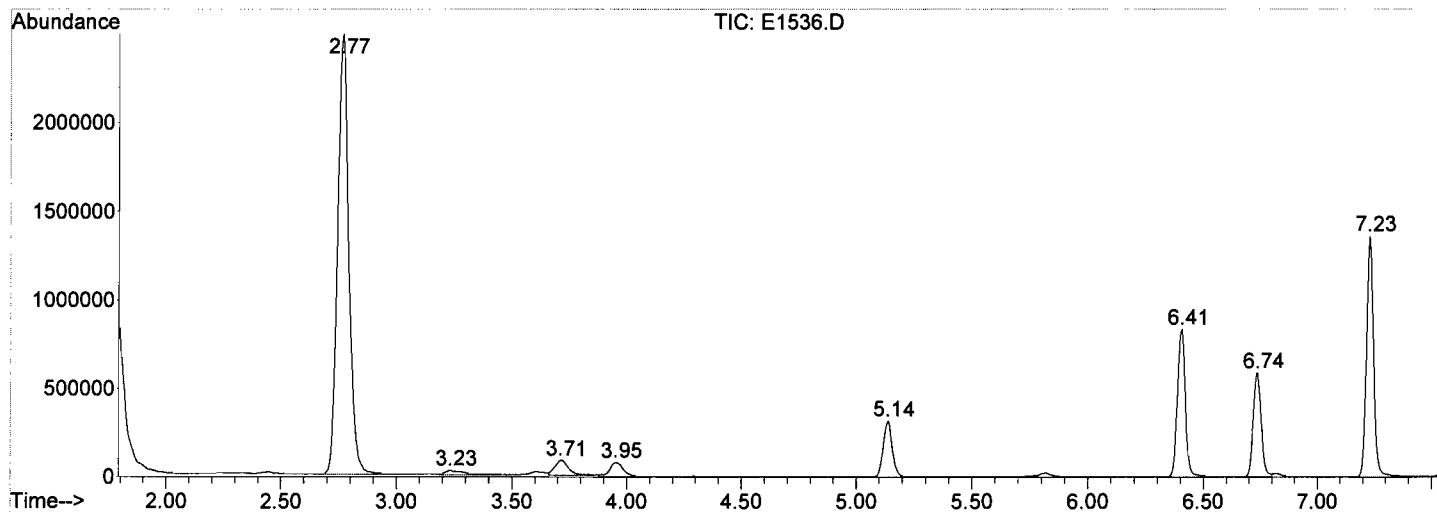
Sum of corrected areas: 26360796

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1536.D
 Acq On : 18 Sep 2017 17:13
 Operator : BARBARA
 Sample : MW-2, E17-07838-007, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1536.D
Acq On : 18 Sep 2017 17:13
Operator : BARBARA
Sample : MW-2, E17-07838-007, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 10 Sample Multiplier: 1

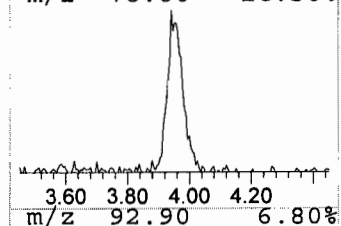
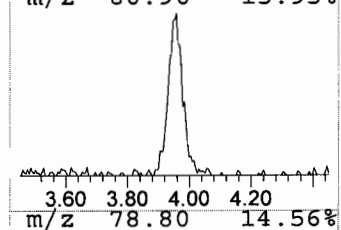
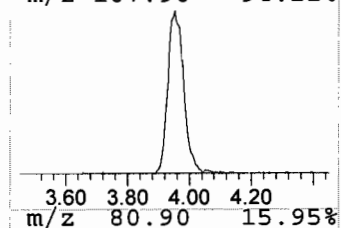
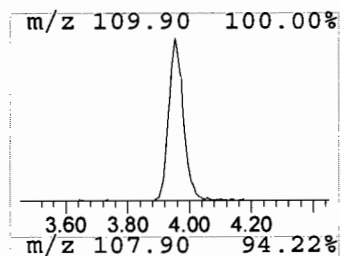
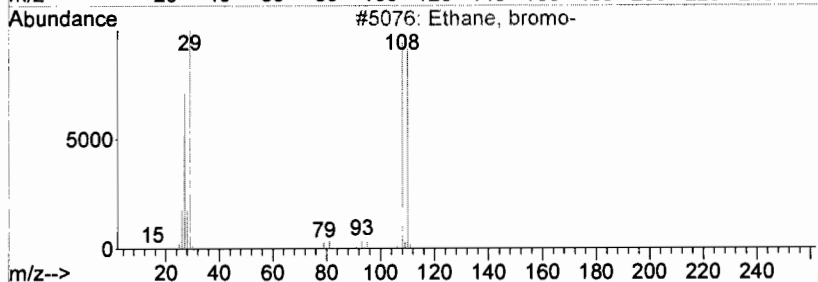
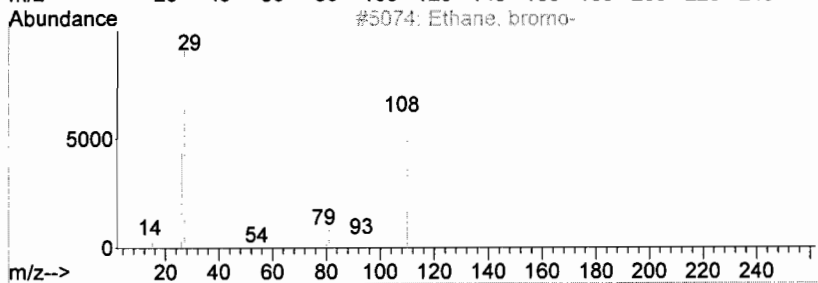
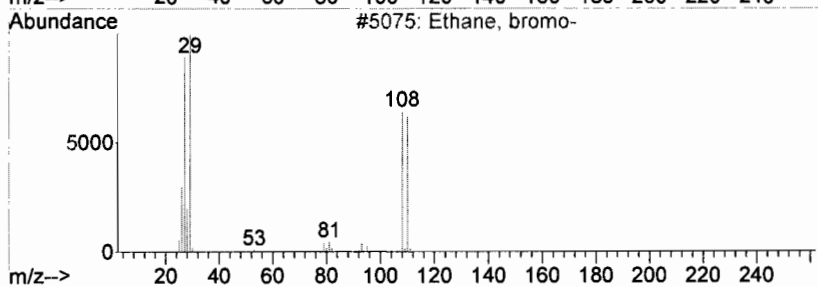
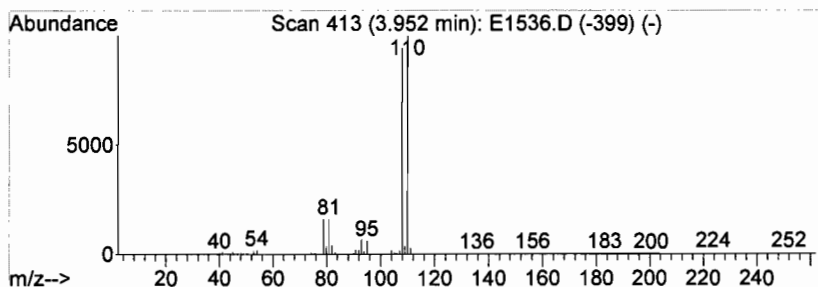
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Ethane, bromo- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.95	8.01 UG	319575	Pentafluorobenzene	6.41

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Ethane, bromo-	108	C2H5Br	000074-96-4	86
2			Ethane, bromo-	108	C2H5Br	000074-96-4	86
3			Ethane, bromo-	108	C2H5Br	000074-96-4	80
4			Phosphine, phenyl-	110	C6H7P	000638-21-1	39
5			Pyridine, 2-(diethoxymethyl)-	181	C10H15NO2	027443-37-4	9



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1572.D
Acq On : 19 Sep 2017 11:04
Operator : BARBARA
Sample : MW-2, E17-07838-007DL, A, 0.5mL, 100
Misc : JMC/ARSYNCO, 09/13/17, 09/13/17, 1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 19 18:05:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	551046	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1033805	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	817585	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.74	65	462376	49.35	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	98.70%
41) Toluene-d8	8.90	98	1275414	48.24	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.48%
59) Bromofluorobenzene	11.98	95	446852	46.54	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.08%

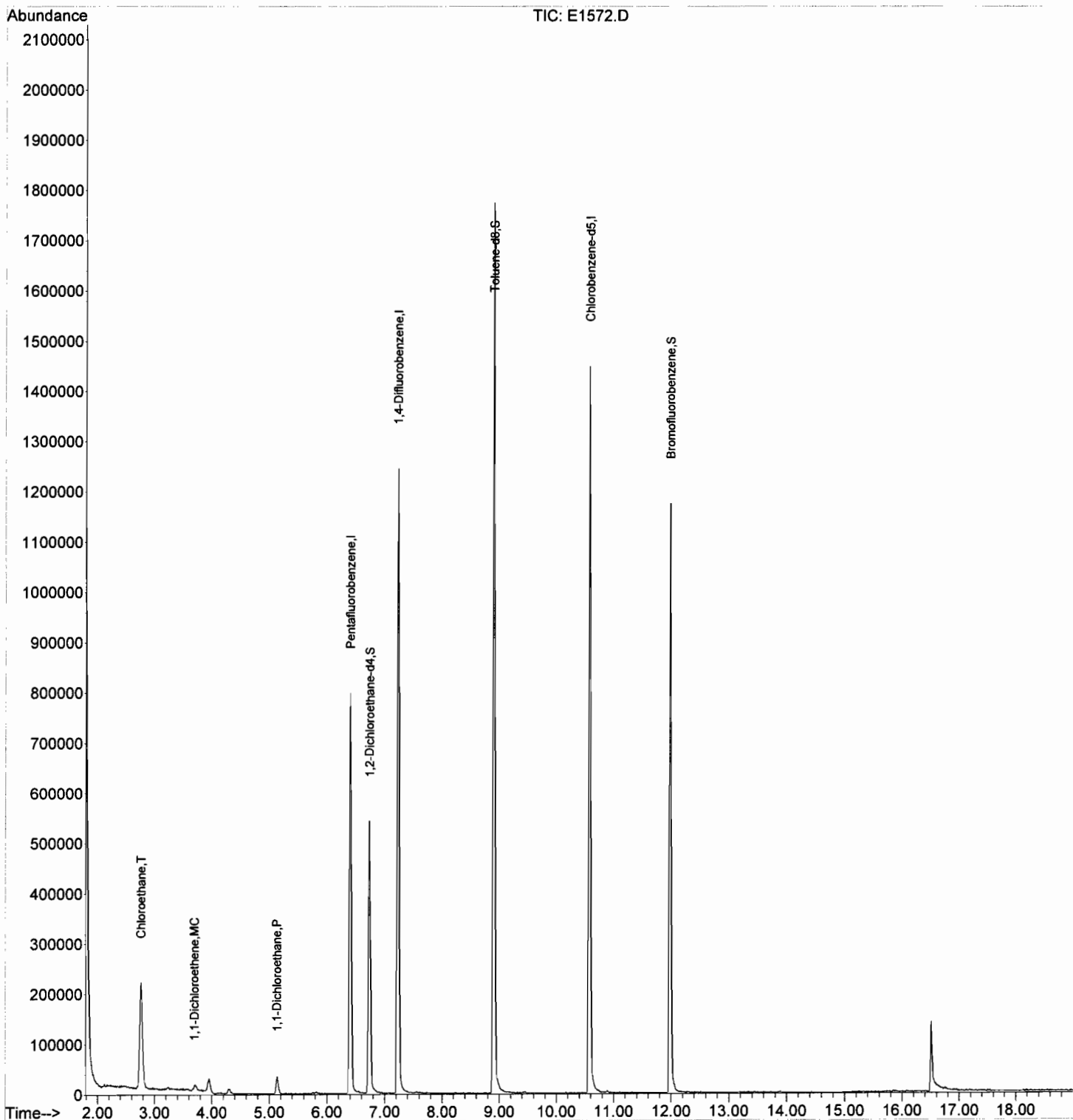
Target Compounds

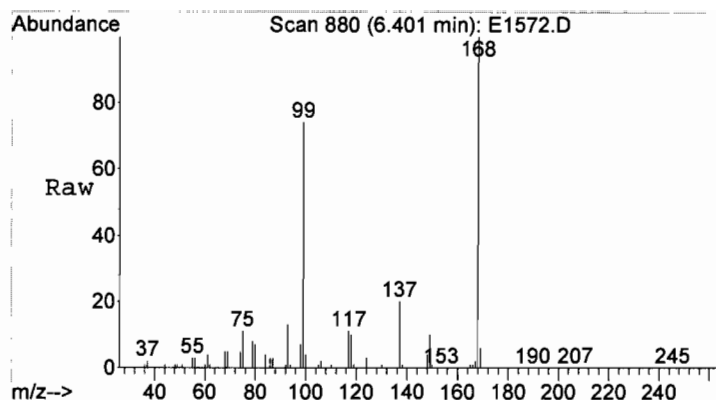
						Qvalue
6) Chloroethane	2.76	64	329940	90.03	UG	# 100
9) 1,1-Dichloroethene	3.70	96	6313m	1.03	UG	
18) 1,1-Dichloroethane	5.13	63	43386	3.18	UG	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1572.D
Acq On : 19 Sep 2017 11:04
Operator : BARBARA
Sample : MW-2, E17-07838-007DL, A, 0.5mL, 100
Misc : JMC/ARSYNCO, 09/13/17, 09/13/17, 1
ALS Vial : 19 Sample Multiplier: 1

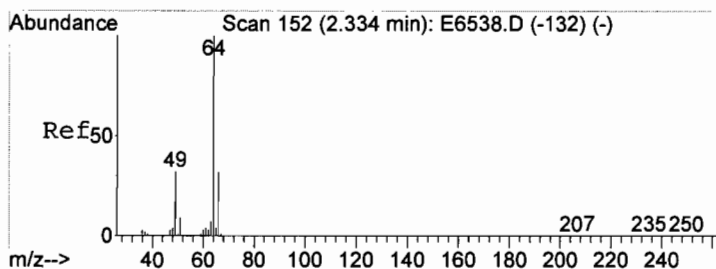
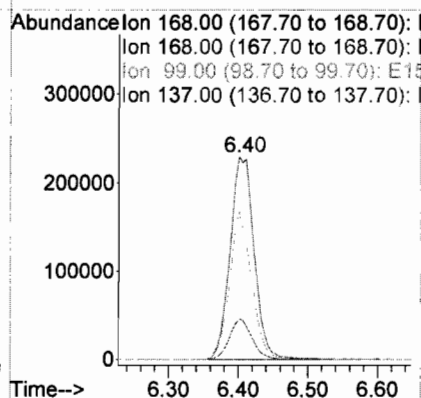
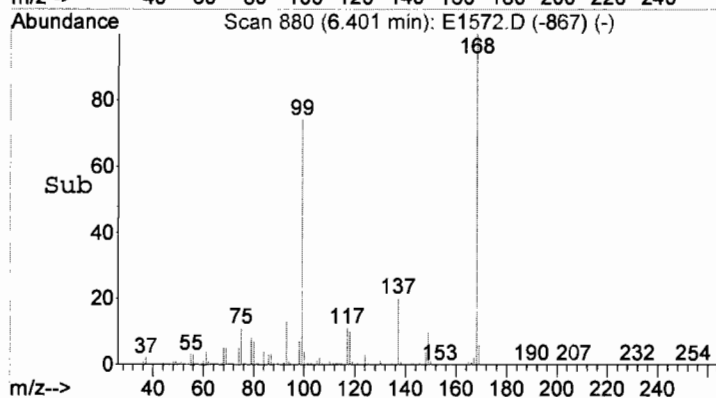
Quant Time: Sep 19 18:05:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





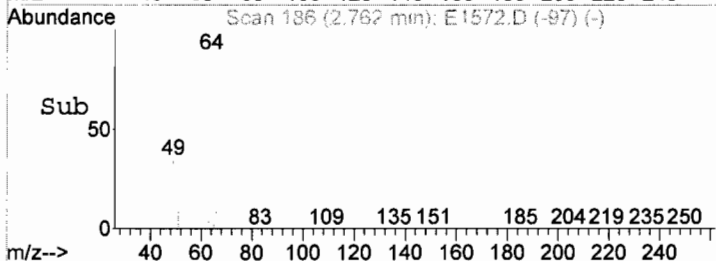
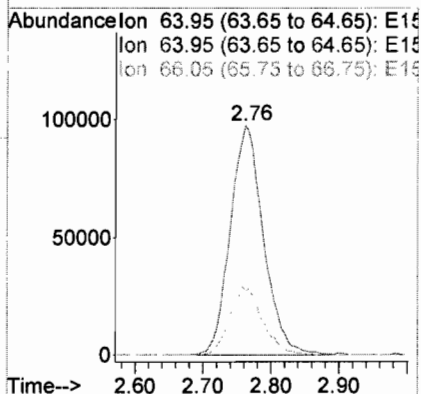
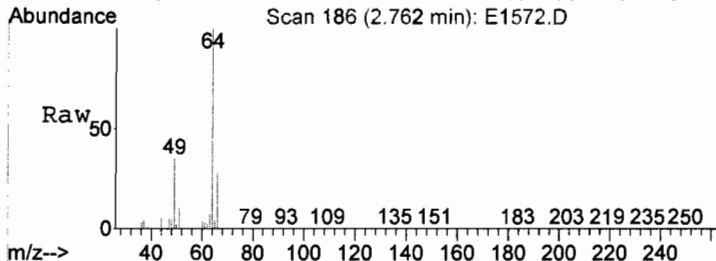
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1572.D
Acq: 19 Sep 2017 11:04

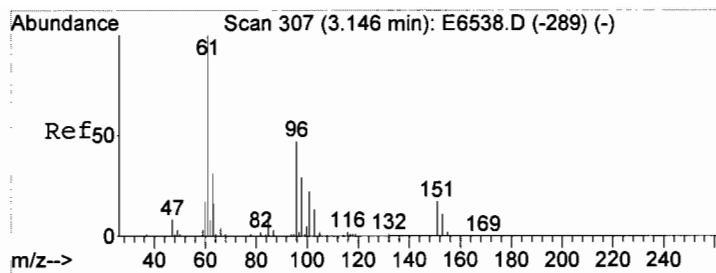
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#6
Chloroethane
Concen: 90.03 UG
RT: 2.76 min Scan# 186
Delta R.T. -0.03 min
Lab File: E1572.D
Acq: 19 Sep 2017 11:04

Tgt Ion	Ratio	Lower	Upper
64	100		
64	100.0	80.0	120.0
66	0.0	0.0	0.0

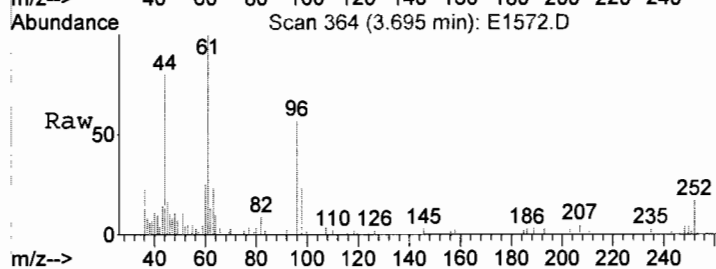




#9
1,1-Dichloroethene
Concen: 1.03 UG m
RT: 3.70 min Scan# 364
Delta R.T. -0.03 min
Lab File: E1572.D
Acq: 19 Sep 2017 11:04

Tgt Ion: 96 Resp: 6313

Ion	Ratio	Lower	Upper
96	100		
96	50.2	80.0	120.0#
61	214.3	0.0	0.0#
63	70.6	0.0	0.0#



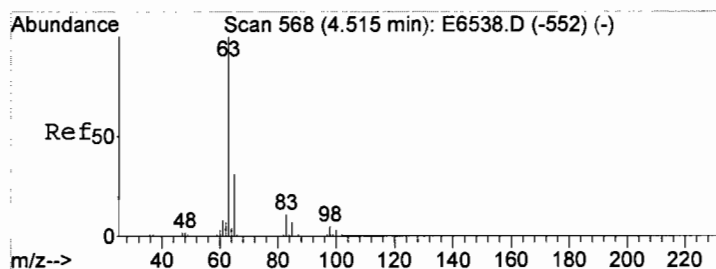
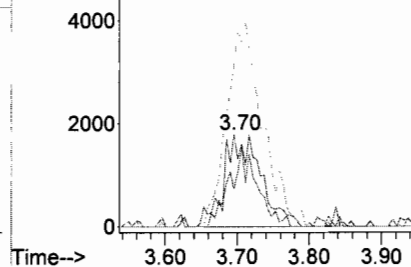
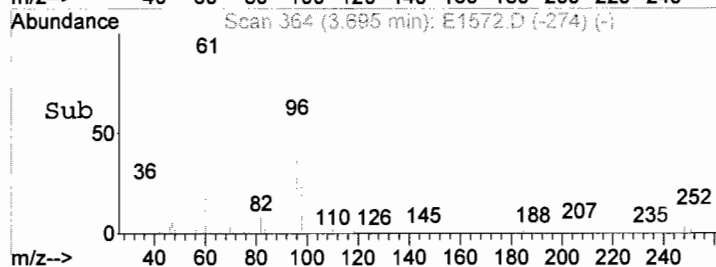
Abundance

Ion 95.85 (95.55 to 96.55): E15

Ion 95.85 (95.55 to 96.55): E15

Ion 61.05 (60.75 to 61.75): E15

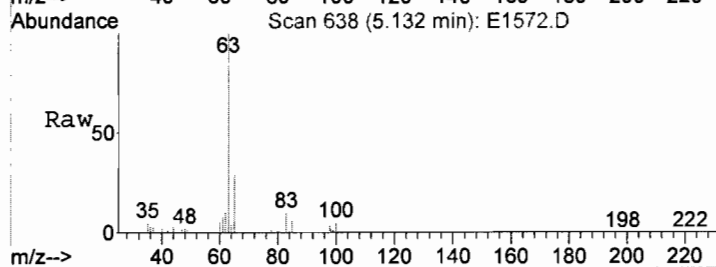
Ion 63.05 (62.75 to 63.75): E15



#18
1,1-Dichloroethane
Concen: 3.18 UG
RT: 5.13 min Scan# 638
Delta R.T. -0.01 min
Lab File: E1572.D
Acq: 19 Sep 2017 11:04

Tgt Ion: 63 Resp: 43386

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	30.5	25.6	38.4
83	12.1	11.3	16.9



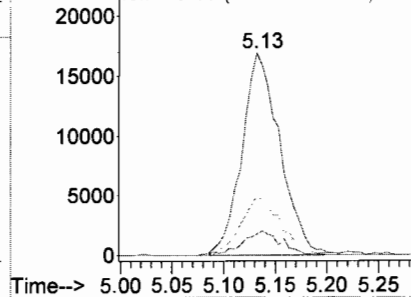
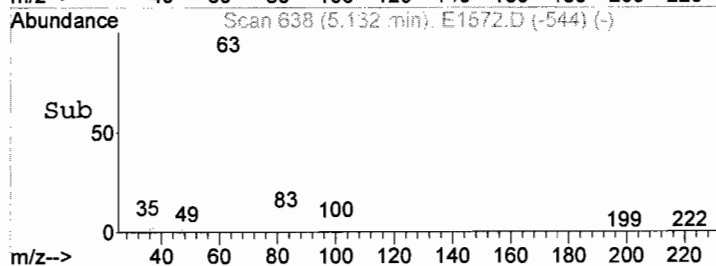
Abundance

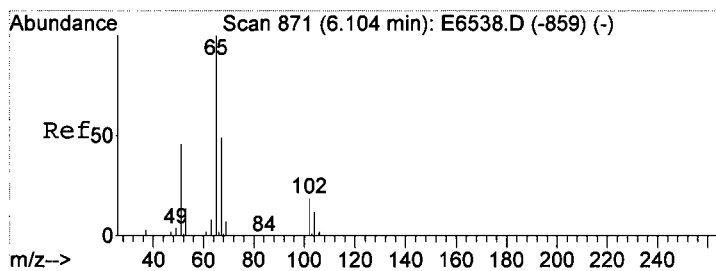
Ion 62.95 (62.65 to 63.65): E15

Ion 62.95 (62.65 to 63.65): E15

Ion 64.95 (64.65 to 65.65): E15

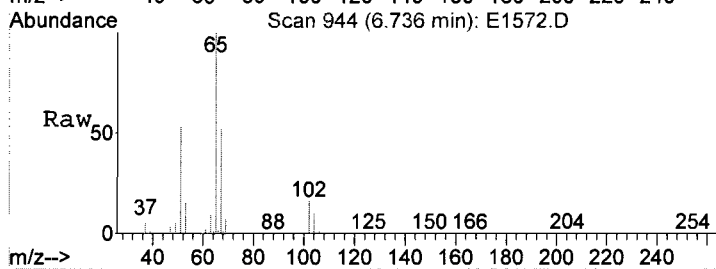
Ion 83.10 (82.80 to 83.80): E15



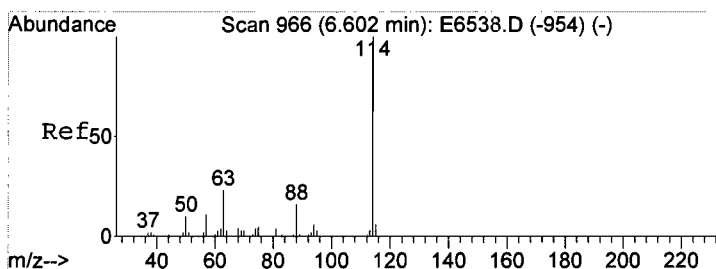
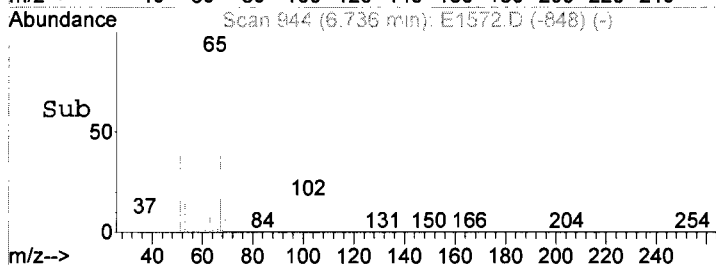
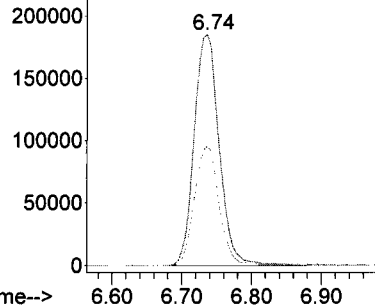


#30
 1,2-Dichloroethane-d4
 Concen: 49.35 UG
 RT: 6.74 min Scan# 944
 Delta R.T. 0.01 min
 Lab File: E1572.D
 Acq: 19 Sep 2017 11:04

Tgt Ion: 65 Resp: 462376
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 67 51.4 43.2 64.8

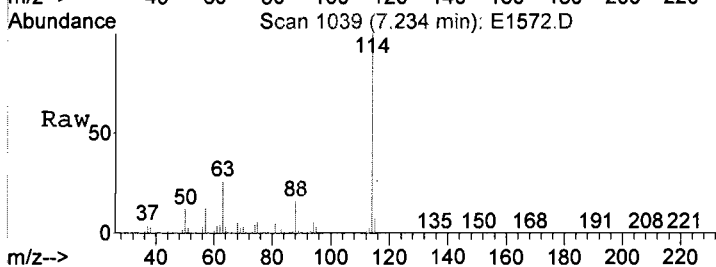


Abundance Ion 65.15 (64.85 to 65.85): E1572.D
 250000 Ion 65.15 (64.85 to 65.85): E1572.D
 Ion 67.15 (66.85 to 67.85): E1572.D

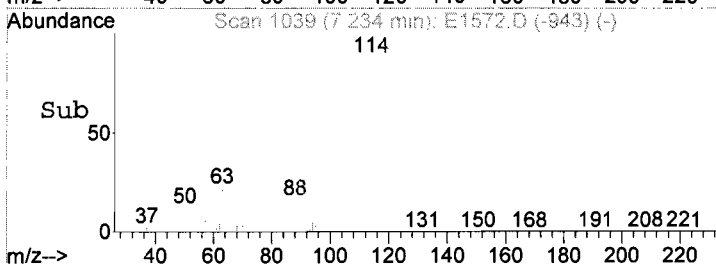
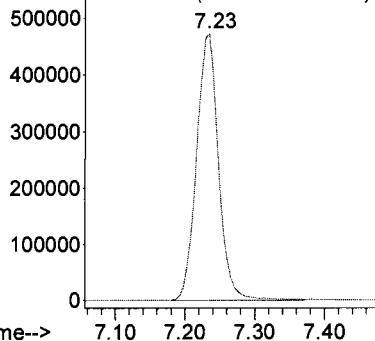


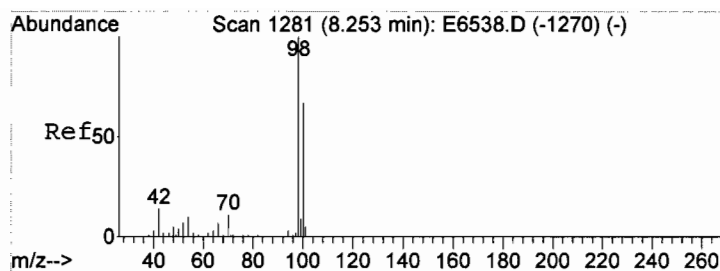
#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.23 min Scan# 1039
 Delta R.T. 0.01 min
 Lab File: E1572.D
 Acq: 19 Sep 2017 11:04

Tgt Ion: 114 Resp: 1033805
 Ion Ratio Lower Upper
 114 100
 114 100.0 80.0 120.0



Abundance Ion 114.00 (113.70 to 114.70): E1572.D
 Ion 114.00 (113.70 to 114.70): E1572.D





#41

Toluene-d8

Concen: 48.24 UG

RT: 8.90 min Scan# 1357

Delta R.T. 0.00 min

Lab File: E1572.D

Acq: 19 Sep 2017 11:04

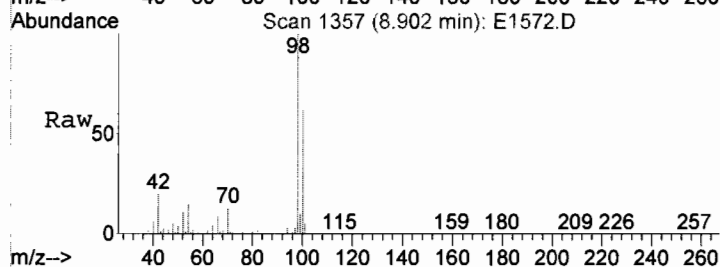
Tgt Ion: 98 Resp: 1275414

Ion Ratio Lower Upper

98 100

98 100.0 80.0 120.0

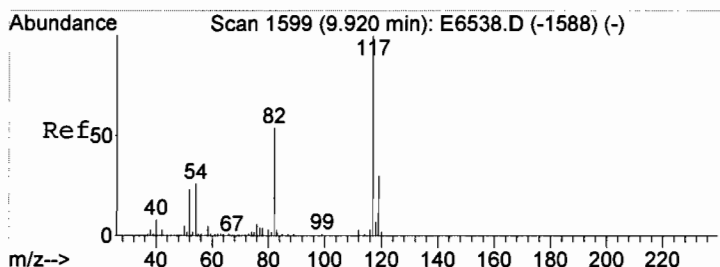
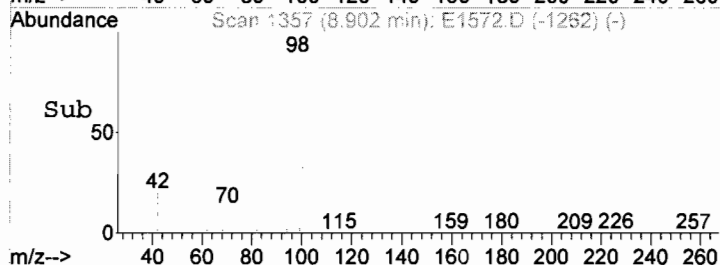
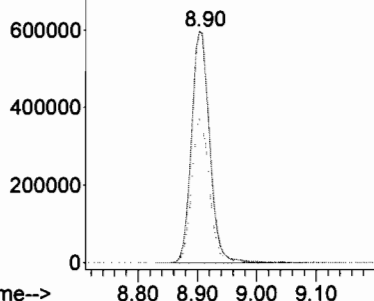
100 61.3 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): E1572.D

Ion 98.00 (97.70 to 98.70): E1572.D

Ion 100.00 (99.70 to 100.70): E1572.D



#50

Chlorobenzene-d5

Concen: 50.00 UG

RT: 10.58 min Scan# 1677

Delta R.T. 0.00 min

Lab File: E1572.D

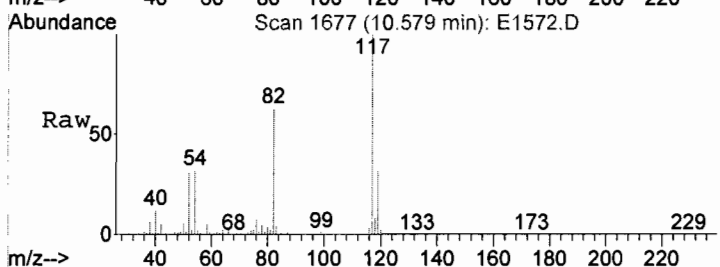
Acq: 19 Sep 2017 11:04

Tgt Ion: 117 Resp: 817585

Ion Ratio Lower Upper

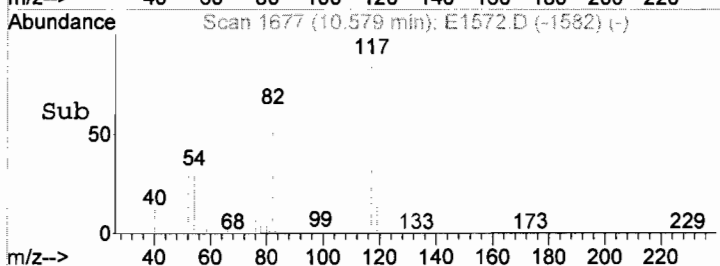
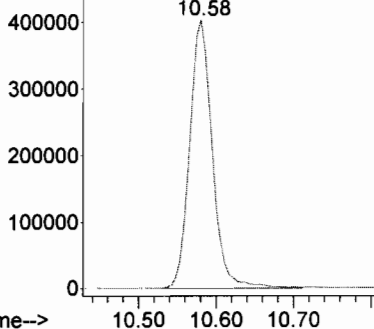
117 100

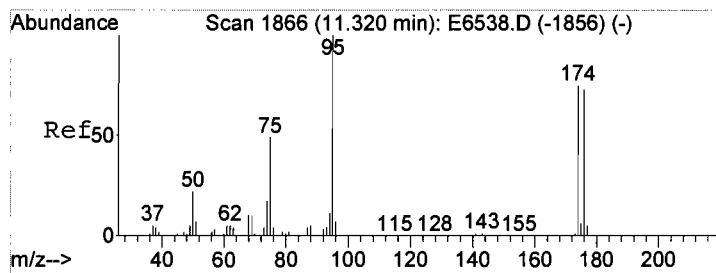
117 100.0 80.0 120.0



Abundance Ion 117.00 (116.70 to 117.70): E1572.D

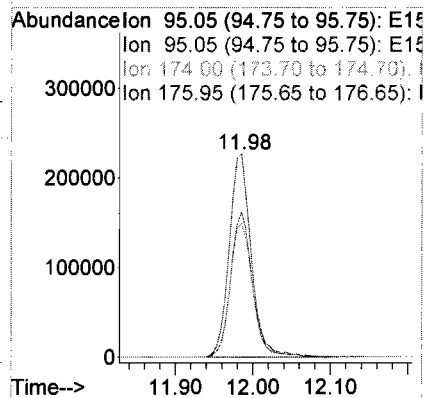
Ion 117.00 (116.70 to 117.70): E1572.D





#59
 Bromofluorobenzene
 Concen: 46.54 UG
 RT: 11.98 min Scan# 1945
 Delta R.T. 0.01 min
 Lab File: E1572.D
 Acq: 19 Sep 2017 11:04

Tgt Ion:	95	Resp:	446852
Ion	Ratio	Lower	Upper
95	100		
95	100.0	80.0	120.0
174	68.1	62.9	94.3
176	70.4	60.5	90.7



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1559.D
Acq On : 19 Sep 2017 4:38
Operator : BARBARA
Sample : MW-2D,E17-07838-008,A,5mL,100
Misc : BVERITAS/LEXINGTON,09/12/17,09/14/17,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 19 09:52:34 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	620516	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1195667	50.00	UG	0.00
50) Chlorobenzene-d5	10.57	117	889265	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	430198	40.77	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	81.54%
41) Toluene-d8	8.90	98	1424463	46.59	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.18%
59) Bromofluorobenzene	11.98	95	496455	47.54	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	95.08%

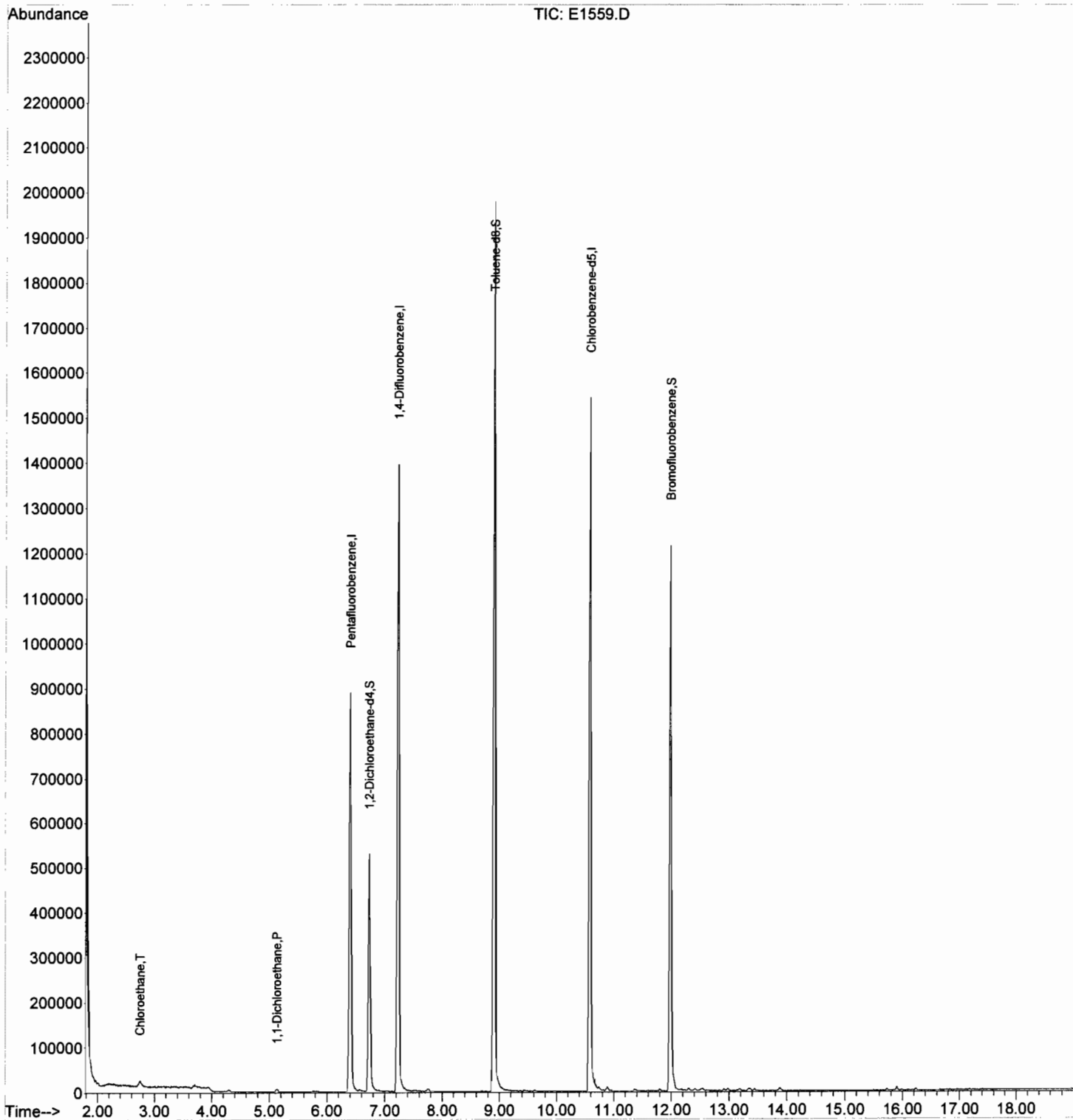
Target Compounds

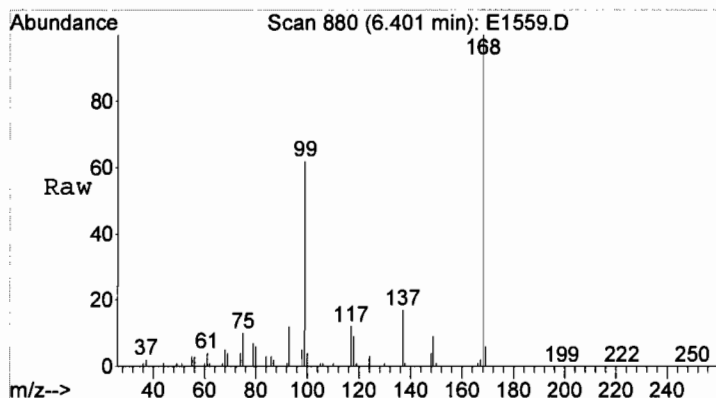
					Qvalue
6) Chloroethane	2.75	64	18360	4.45	UG # 100
18) 1,1-Dichloroethane	5.14	63	7676	0.50	UG # 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1559.D
Acq On : 19 Sep 2017 4:38
Operator : BARBARA
Sample : MW-2D,E17-07838-008,A,5mL,100
Misc : BVERITAS/LEXINGTON,09/12/17,09/14/17,1
ALS Vial : 33 Sample Multiplier: 1

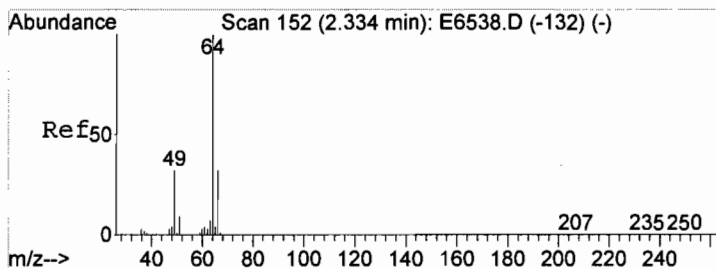
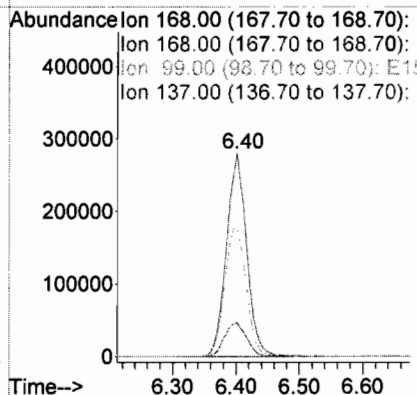
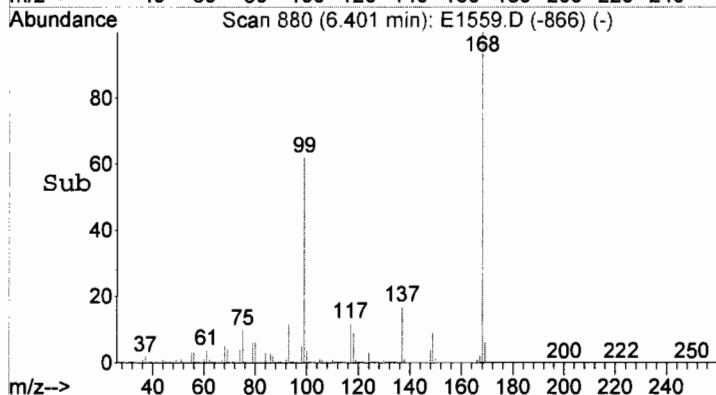
Quant Time: Sep 19 09:52:34 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





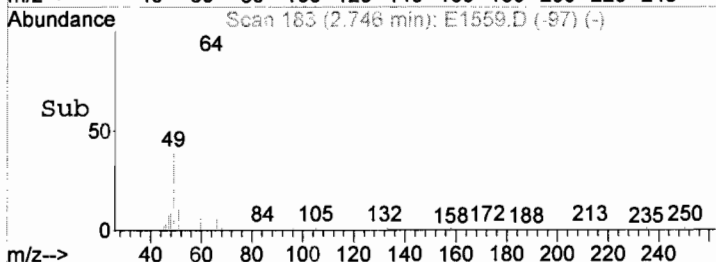
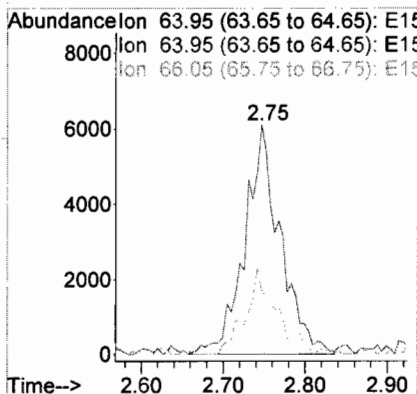
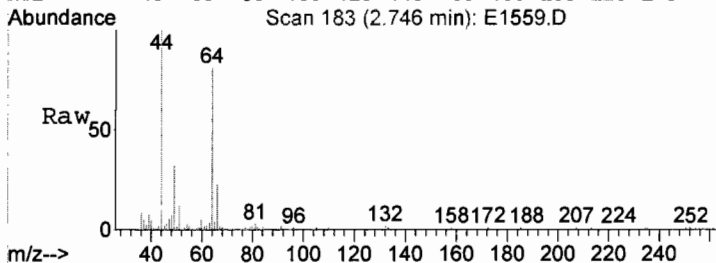
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1559.D
Acq: 19 Sep 2017 4:38

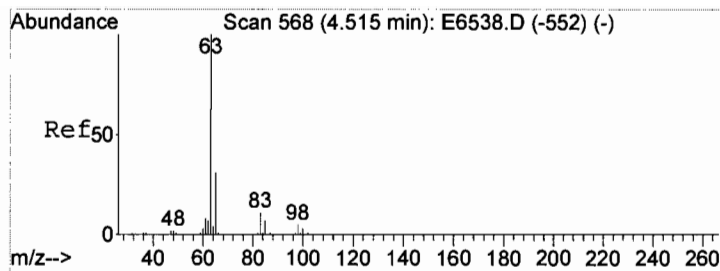
Tgt Ion: 168 Resp: 620516
Ion Ratio Lower Upper
168 100
168 100.0 80.0 120.0
99 0.0 0.0 0.0
137 0.0 0.0 0.0



#6
Chloroethane
Concen: 4.45 UG
RT: 2.75 min Scan# 183
Delta R.T. -0.05 min
Lab File: E1559.D
Acq: 19 Sep 2017 4:38

Tgt Ion: 64 Resp: 18360
Ion Ratio Lower Upper
64 100
64 100.0 80.0 120.0
66 0.0 0.0 0.0

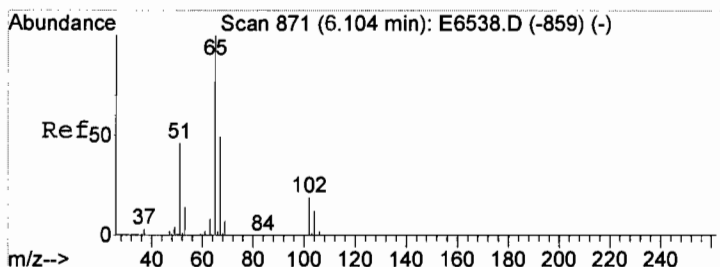
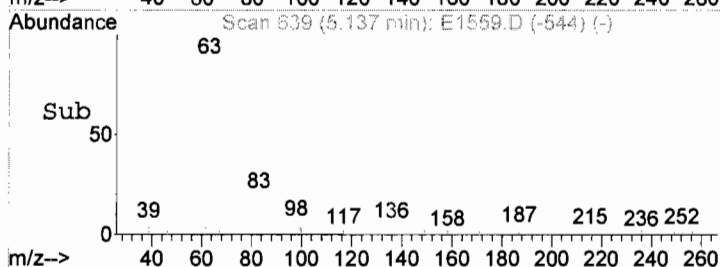
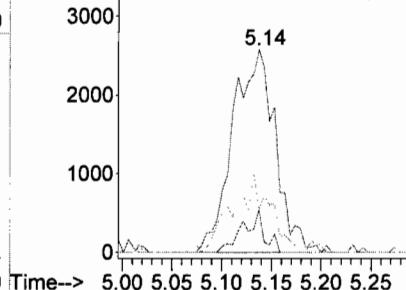




#18
1,1-Dichloroethane
Concen: 0.50 UG
RT: 5.14 min Scan# 639
Delta R.T. 0.00 min
Lab File: E1559.D
Acq: 19 Sep 2017 4:38

Tgt Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	0.0	25.6	38.4#
83	10.4	11.3	16.9#

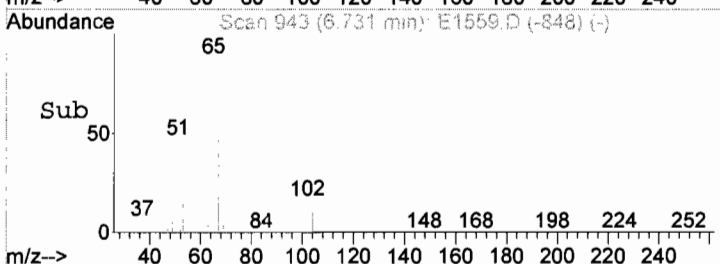
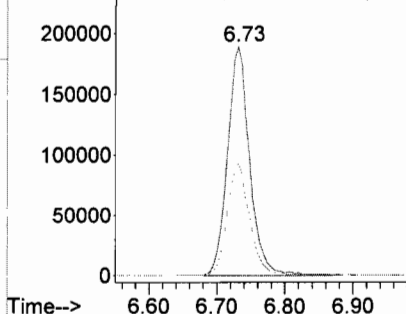
Abundance Ion 62.95 (62.65 to 63.65): E15
4000 Ion 62.95 (62.65 to 63.65): E15
Ion 64.95 (64.65 to 65.65): E15
Ion 83.10 (82.80 to 83.80): E15

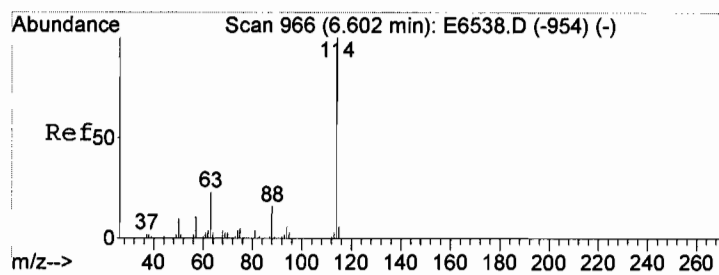


#30
1,2-Dichloroethane-d4
Concen: 40.77 UG
RT: 6.73 min Scan# 943
Delta R.T. 0.00 min
Lab File: E1559.D
Acq: 19 Sep 2017 4:38

Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.3	43.2	64.8

Abundance Ion 65.15 (64.85 to 65.85): E15
250000 Ion 65.15 (64.85 to 65.85): E15
Ion 67.15 (66.85 to 67.85): E15

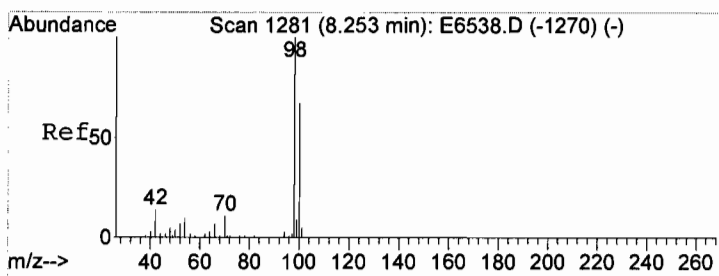
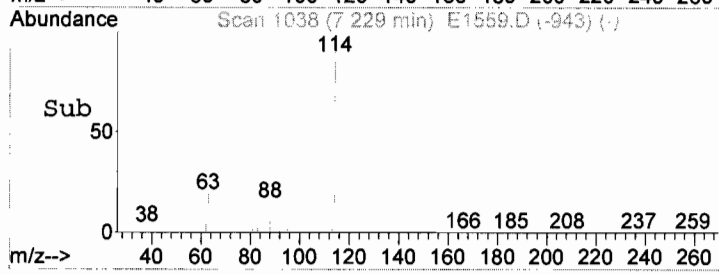
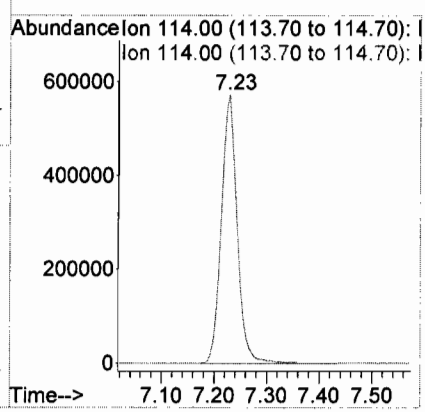
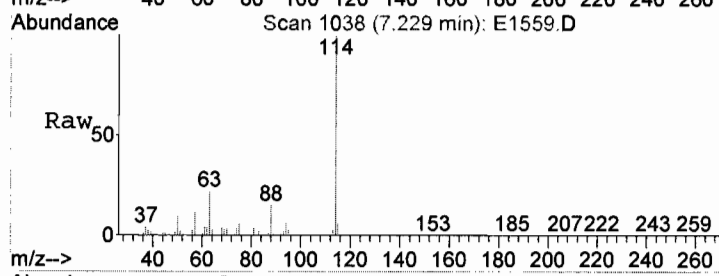




#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.23 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: E1559.D
 Acq: 19 Sep 2017 4:38

Tgt Ion: 114 Resp: 1195667

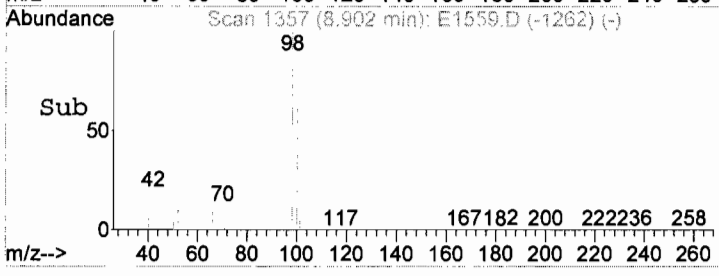
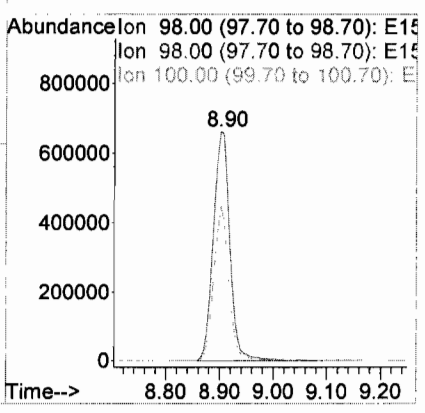
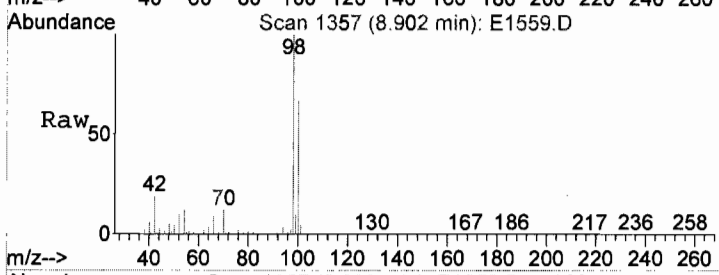
Ion	Ratio	Lower	Upper
114	100		
114	100.0	80.0	120.0

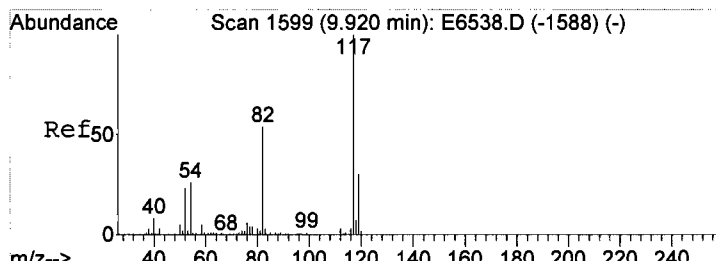


#41
 Toluene-d8
 Concen: 46.59 UG
 RT: 8.90 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: E1559.D
 Acq: 19 Sep 2017 4:38

Tgt Ion: 98 Resp: 1424463

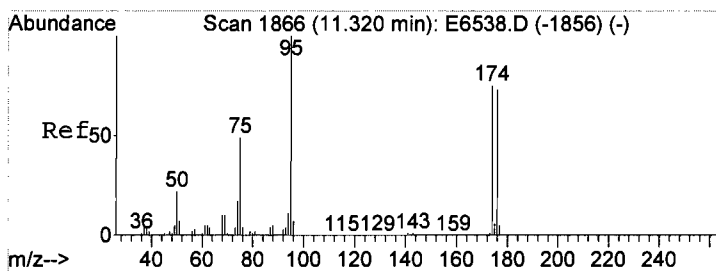
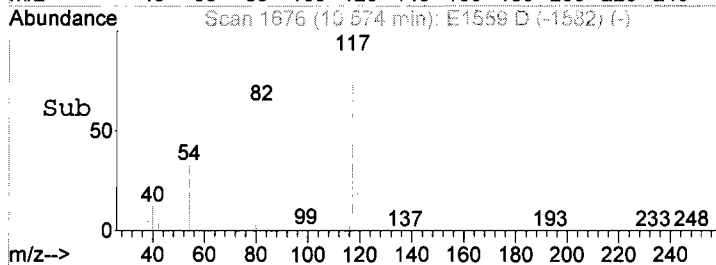
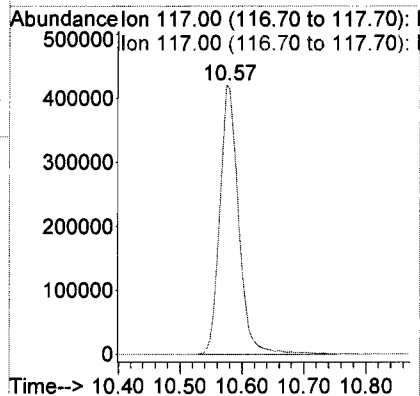
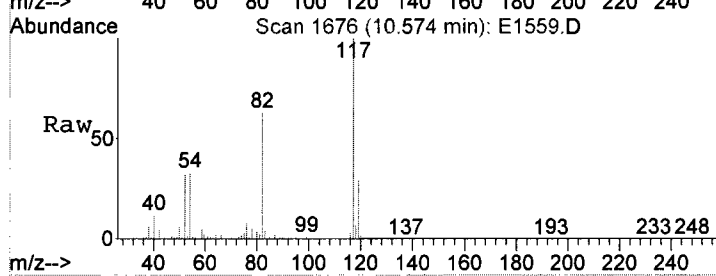
Ion	Ratio	Lower	Upper
98	100		
98	100.0	80.0	120.0
100	61.9	53.4	80.0





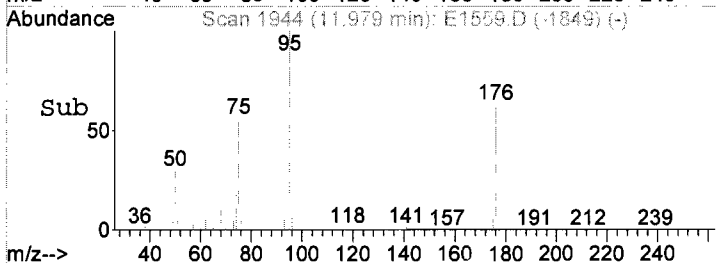
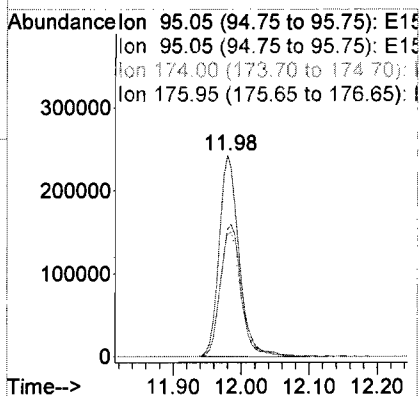
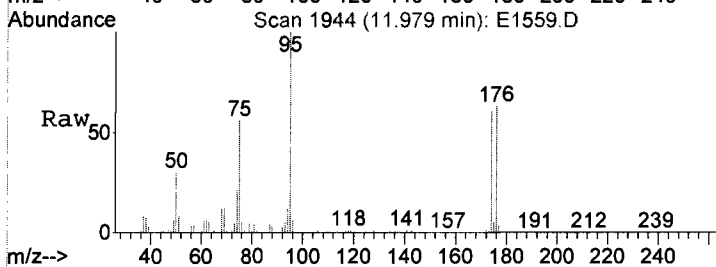
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.57 min Scan# 1676
Delta R.T. -0.01 min
Lab File: E1559.D
Acq: 19 Sep 2017 4:38

Tgt Ion: 117 Resp: 889265
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 47.54 UG
RT: 11.98 min Scan# 1944
Delta R.T. 0.00 min
Lab File: E1559.D
Acq: 19 Sep 2017 4:38

Tgt Ion: 95 Resp: 496455
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 65.5 62.9 94.3
176 67.7 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1559.D
Acq On : 19 Sep 2017 4:38
Operator : BARBARA
Sample : MW-2D,E17-07838-008,A,5mL,100
Misc : BVERITAS/LEXINGTON,09/12/17,09/14/17,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.746	173	183	210	rVB4	14260	55301	1.32%	0.335%
2	6.401	866	880	906	rBV	888961	2093795	50.11%	12.696%
3	6.731	929	943	973	rBV	528832	1233474	29.52%	7.479%
4	7.229	1026	1038	1072	rBV	1396201	3086089	73.85%	18.713%
5	8.902	1344	1357	1400	rBV	1978465	4178697	100.00%	25.338%
6	10.580	1664	1677	1705	rBV	1544682	3307886	79.16%	20.058%
7	11.979	1934	1944	1975	rBV	1216948	2536687	60.71%	15.381%

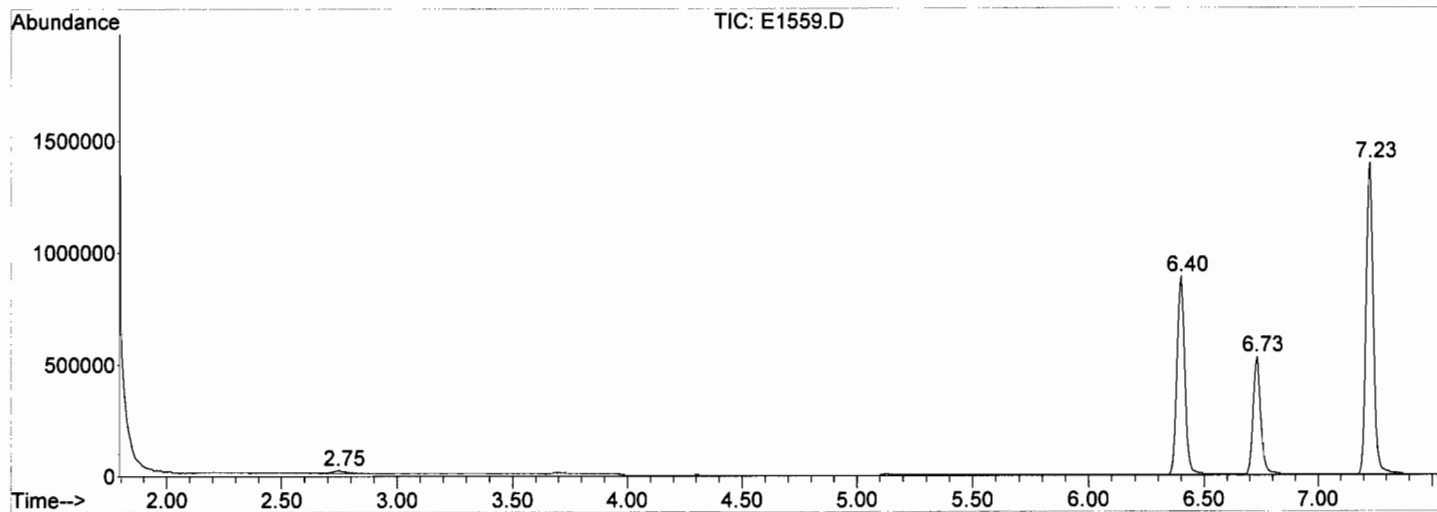
Sum of corrected areas: 16491929

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1559.D
 Acq On : 19 Sep 2017 4:38
 Operator : BARBARA
 Sample : MW-2D, E17-07838-008, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1560.D
Acq On : 19 Sep 2017 5:08
Operator : BARBARA
Sample : TRIP_BLANK, E17-07838-009, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 19 09:52:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	589786	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1105986	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	859864	50.00	UG	0.00

System Monitoring Compounds

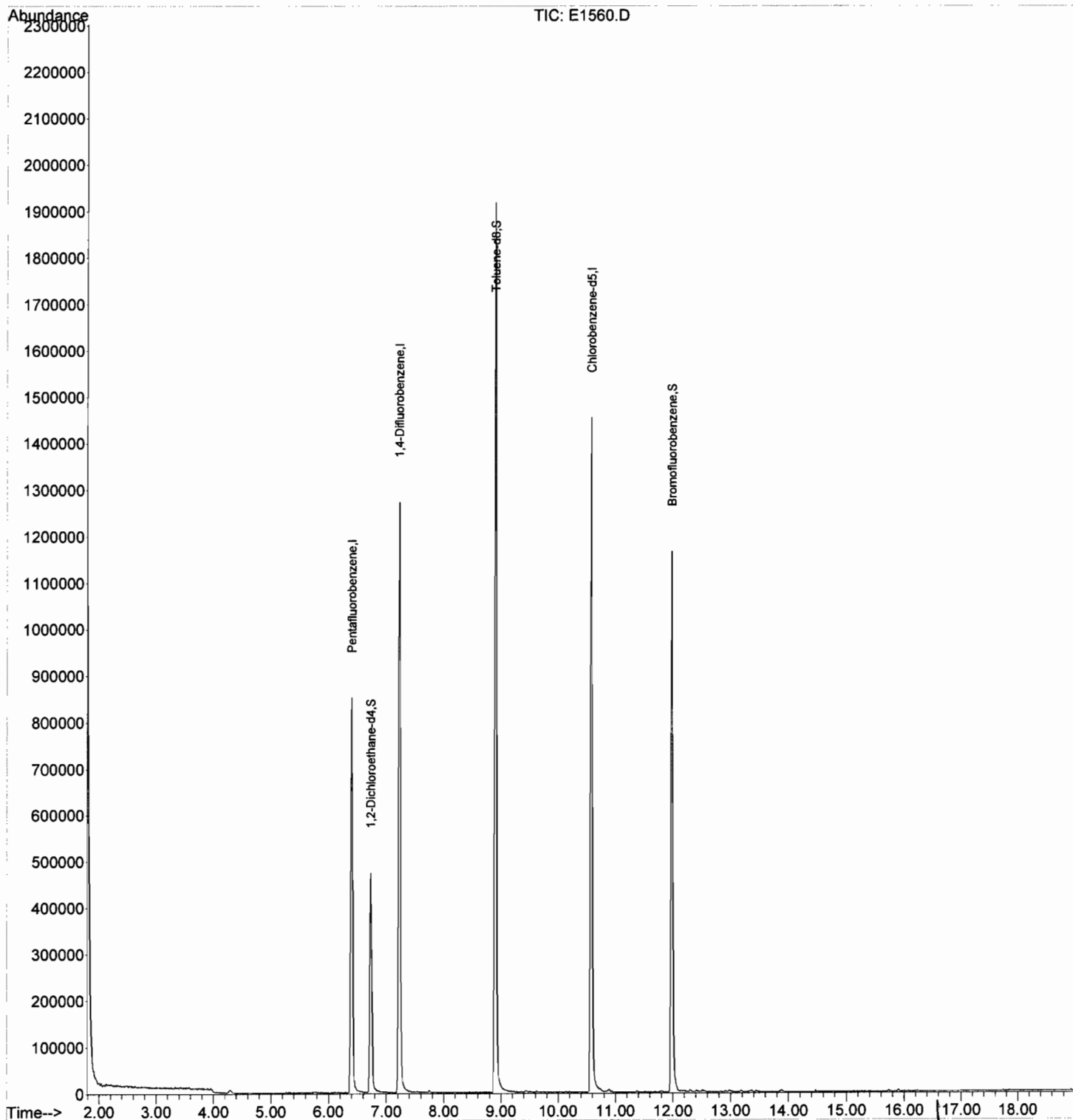
30) 1,2-Dichloroethane-d4	6.73	65	406928	40.58	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	81.16%
41) Toluene-d8	8.90	98	1363372	48.21	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.42%
59) Bromofluorobenzene	11.98	95	465352	46.09	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	92.18%

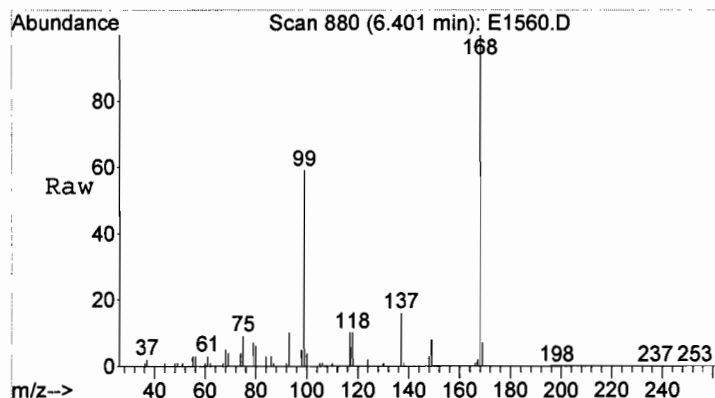
Target Compounds	Qvalue
------------------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1560.D
Acq On : 19 Sep 2017 5:08
Operator : BARBARA
Sample : TRIP BLANK, E17-07838-009, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 34 Sample Multiplier: 1

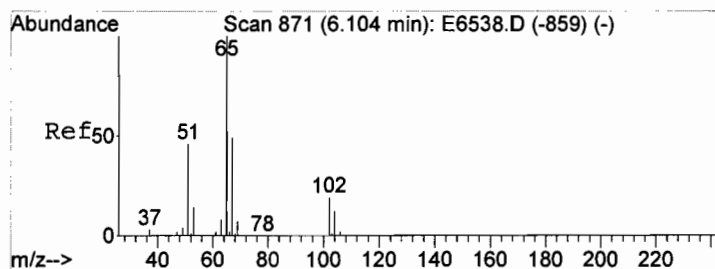
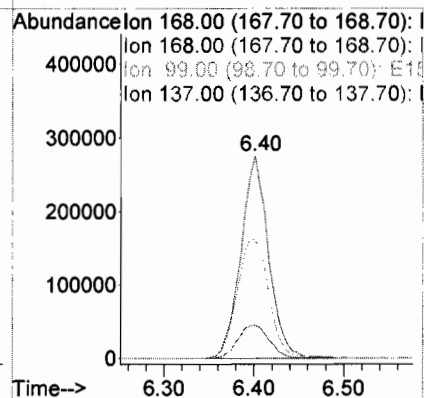
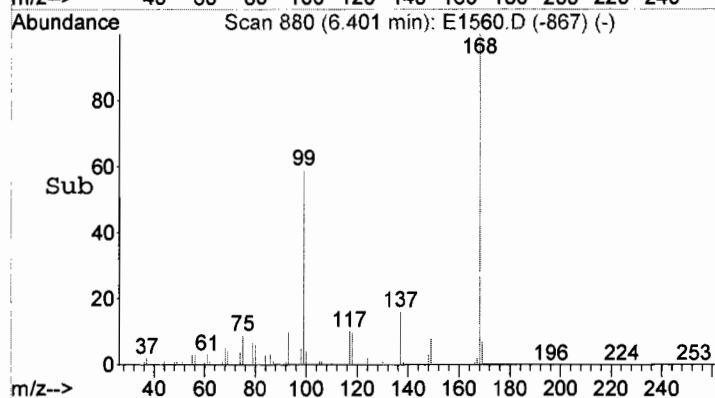
Quant Time: Sep 19 09:52:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





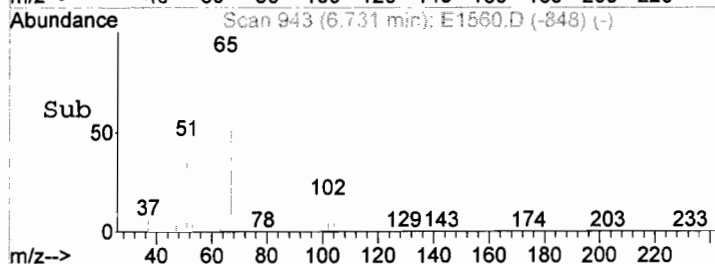
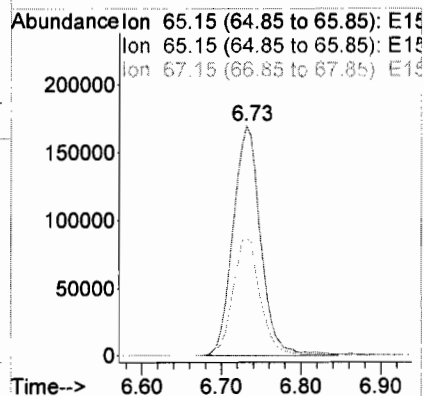
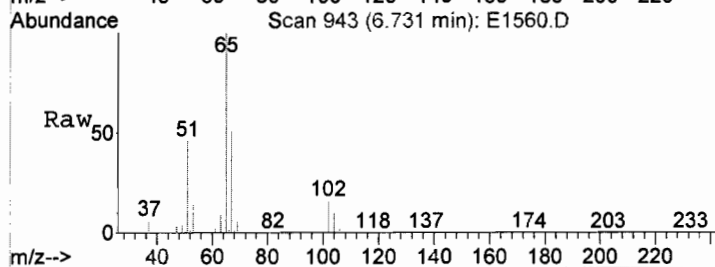
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1560.D
Acq: 19 Sep 2017 5:08

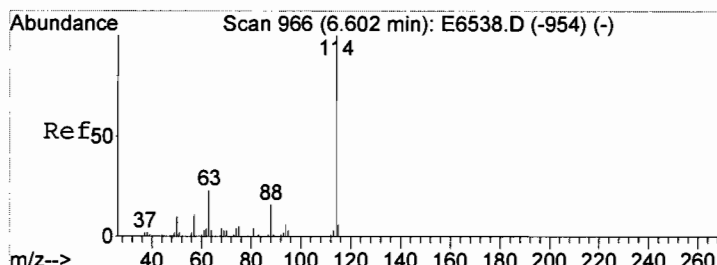
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#30
1,2-Dichloroethane-d4
Concen: 40.58 UG
RT: 6.73 min Scan# 943
Delta R.T. 0.00 min
Lab File: E1560.D
Acq: 19 Sep 2017 5:08

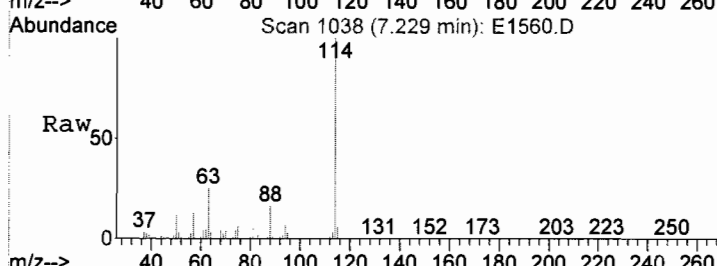
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.8	43.2	64.8



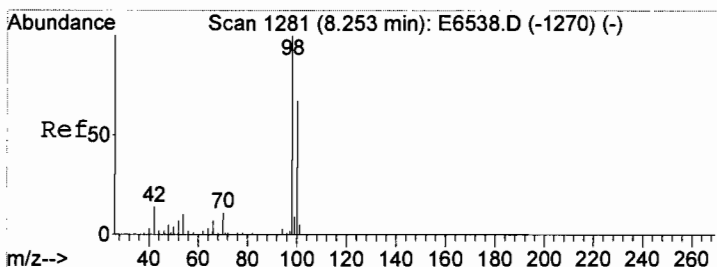
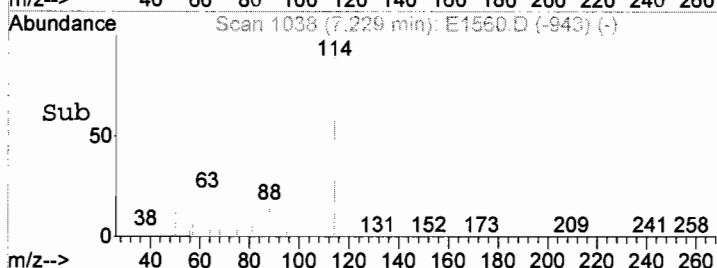
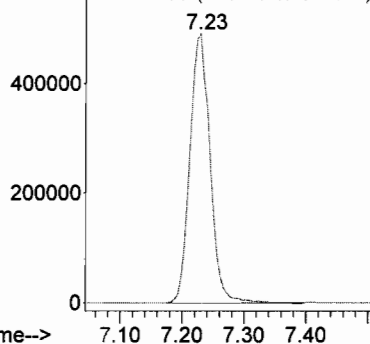


#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. 0.00 min
Lab File: E1560.D
Acq: 19 Sep 2017 5:08

Tgt Ion: 114 Resp: 1105986
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0

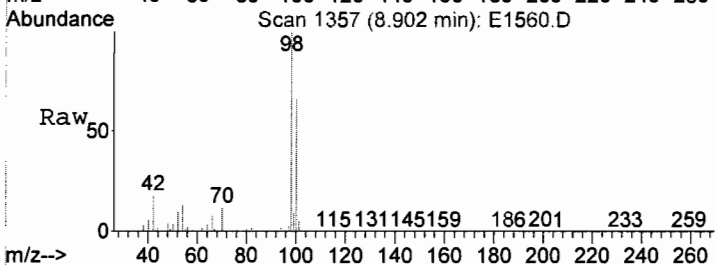


Abundance Ion 114.00 (113.70 to 114.70): I
Ion 114.00 (113.70 to 114.70): I

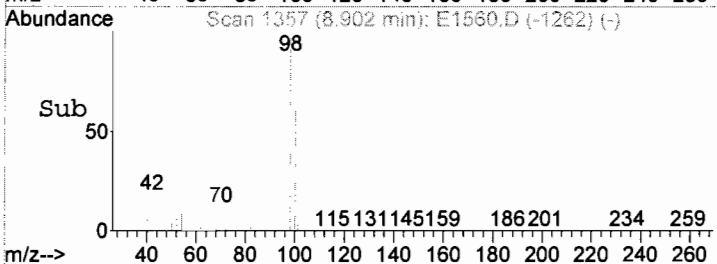
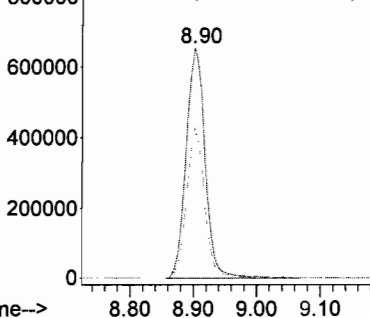


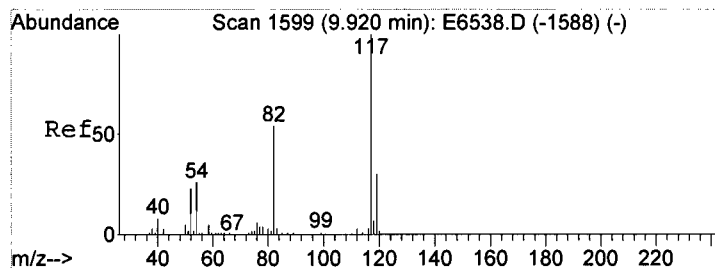
#41
Toluene-d8
Concen: 48.21 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1560.D
Acq: 19 Sep 2017 5:08

Tgt Ion: 98 Resp: 1363372
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 62.6 53.4 80.0



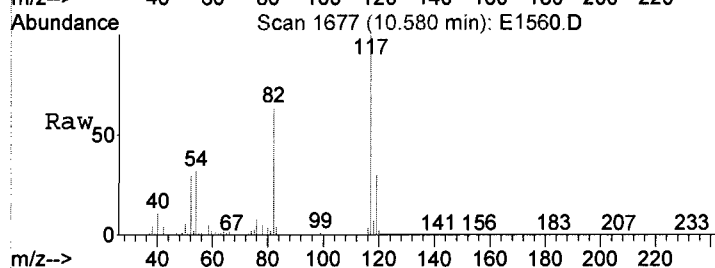
Abundance Ion 98.00 (97.70 to 98.70): E15
Ion 98.00 (97.70 to 98.70): E15
Ion 100.00 (99.70 to 100.70): E



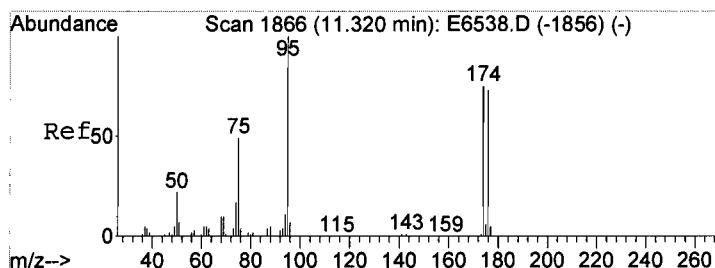
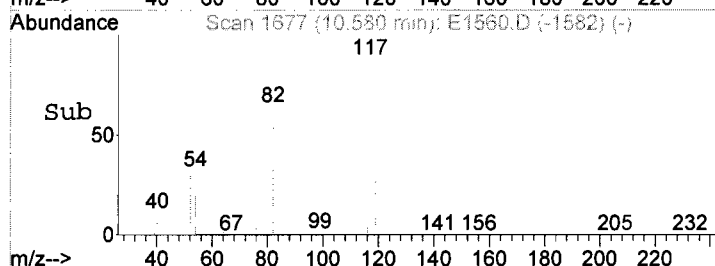
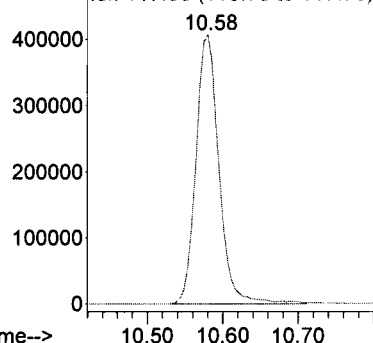


#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1560.D
Acq: 19 Sep 2017 5:08

Tgt Ion: 117 Resp: 859864
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0

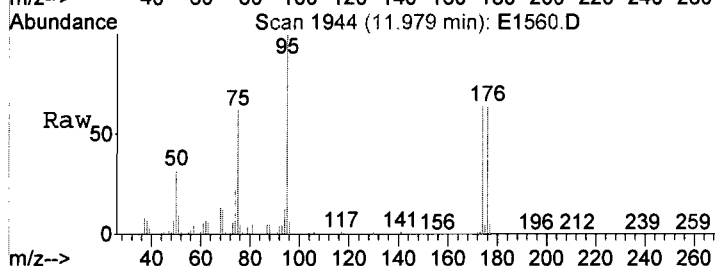


Abundance Ion 117.00 (116.70 to 117.70): I
Ion 117.00 (116.70 to 117.70): I

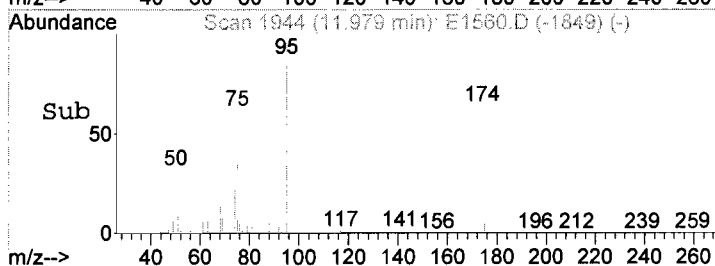
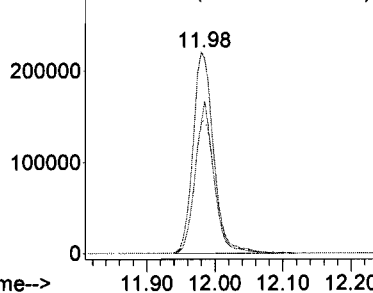


#59
Bromofluorobenzene
Concen: 46.09 UG
RT: 11.98 min Scan# 1944
Delta R.T. 0.00 min
Lab File: E1560.D
Acq: 19 Sep 2017 5:08

Tgt Ion: 95 Resp: 465352
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 66.9 62.9 94.3
176 68.5 60.5 90.7



Abundance Ion 95.05 (94.75 to 95.75): E15
Ion 95.05 (94.75 to 95.75): E15
Ion 174.00 (173.70 to 174.70): I
Ion 175.95 (175.65 to 176.65): I



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1560.D
Acq On : 19 Sep 2017 5:08
Operator : BARBARA
Sample : TRIP BLANK, E17-07838-009, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 34 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.123	61	64	110	rVB	6526	46171	1.16%	0.294%
2	6.401	867	880	909	rBV	851291	1986820	49.74%	12.672%
3	6.731	930	943	974	rBV	472501	1173495	29.38%	7.485%
4	7.224	1027	1037	1069	rBV	1271993	2901751	72.64%	18.508%
5	8.902	1346	1357	1402	rBV	1917036	3994636	100.00%	25.479%
6	10.580	1665	1677	1720	rBV	1455417	3145129	78.73%	20.060%
7	11.985	1931	1945	1973	rBV2	1167781	2430284	60.84%	15.501%

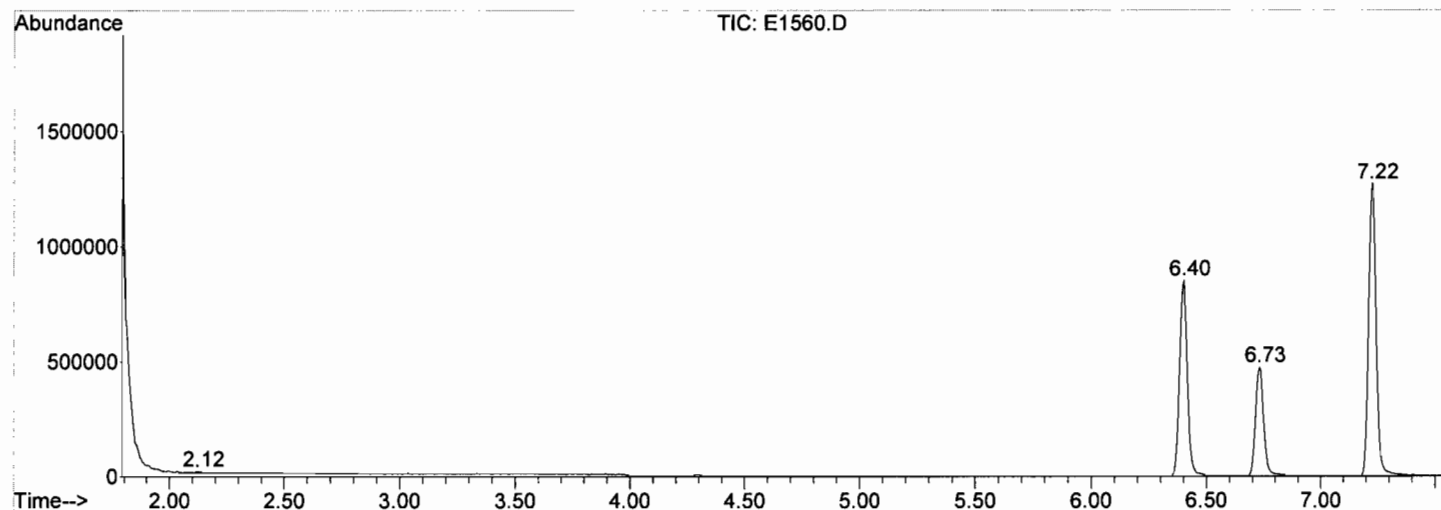
Sum of corrected areas: 15678286

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1560.D
 Acq On : 19 Sep 2017 5:08
 Operator : BARBARA
 Sample : TRIP_BLANK, E17-07838-009, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1561.D
Acq On : 19 Sep 2017 5:37
Operator : BARBARA
Sample : MW-1, E17-07838-010, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 19 09:51:49 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	578732	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.22	114	1076278	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	858118	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	401711	40.82	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	81.64%
41) Toluene-d8	8.90	98	1347478	48.96	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.92%
59) Bromofluorobenzene	11.98	95	453822	45.04	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	90.08%

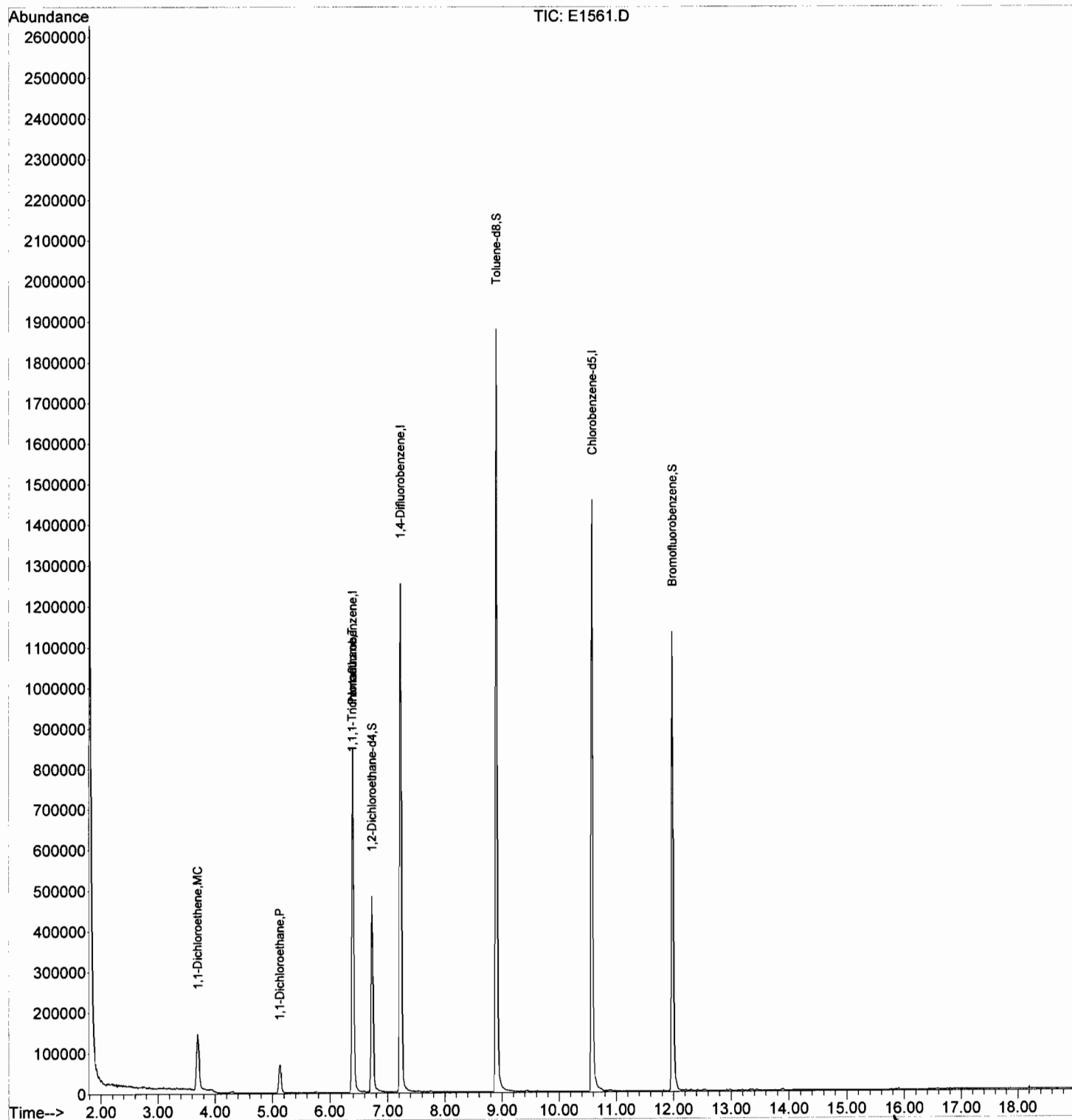
Target Compounds

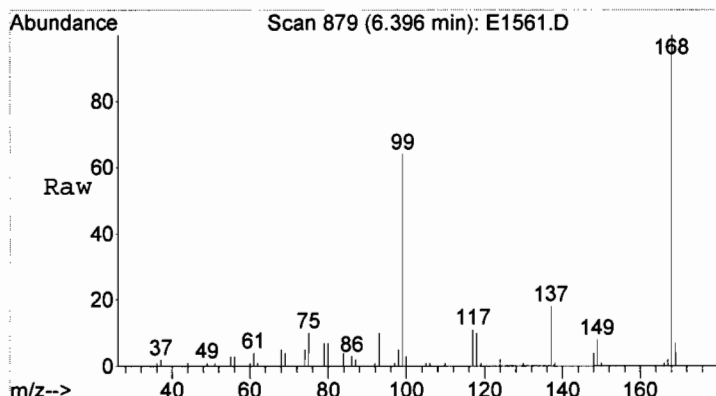
						Qvalue
9) 1,1-Dichloroethene	3.69	96	73511	11.37	UG	# 100
18) 1,1-Dichloroethane	5.13	63	96182	6.71	UG	# 99
26) 1,1,1-Trichloroethane	6.39	97	6893	0.76	UG	# 82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1561.D
Acq On : 19 Sep 2017 5:37
Operator : BARBARA
Sample : MW-1, E17-07838-010, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 35 Sample Multiplier: 1

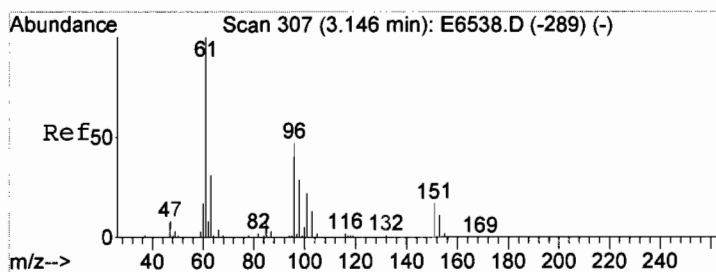
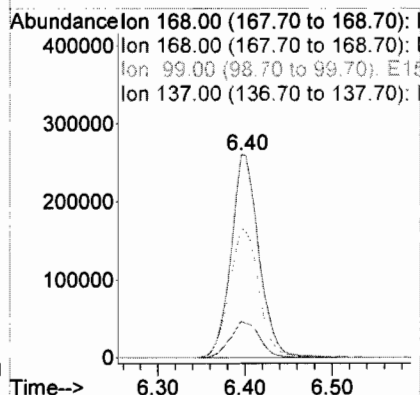
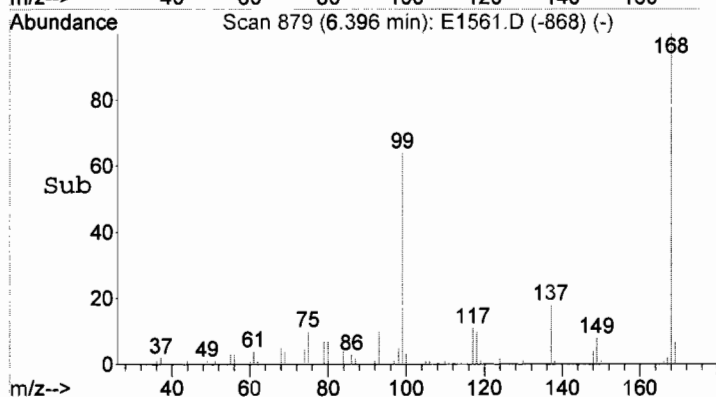
Quant Time: Sep 19 09:51:49 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





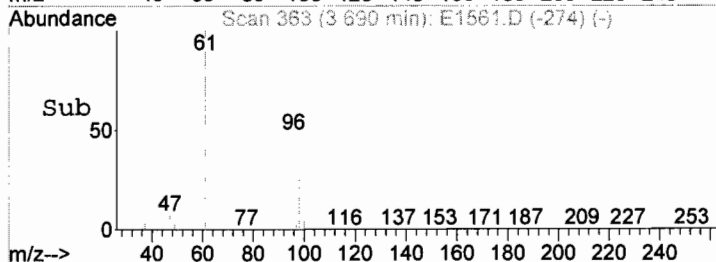
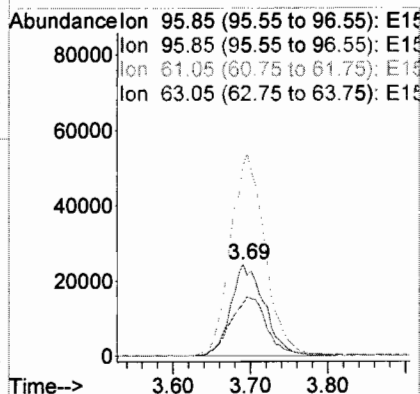
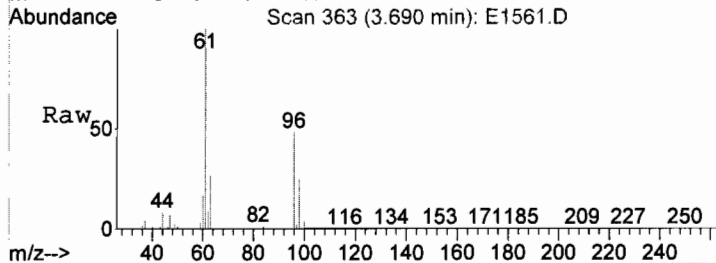
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 879
Delta R.T. -0.01 min
Lab File: E1561.D
Acq: 19 Sep 2017 5:37

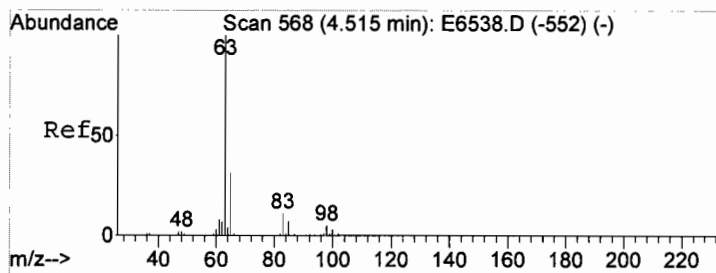
Tgt Ion: 168 Resp: 578732
Ion Ratio Lower Upper
168 100
168 100.0 80.0 120.0
99 0.0 0.0 0.0
137 0.0 0.0 0.0



#9
1,1-Dichloroethene
Concen: 11.37 UG
RT: 3.69 min Scan# 363
Delta R.T. -0.03 min
Lab File: E1561.D
Acq: 19 Sep 2017 5:37

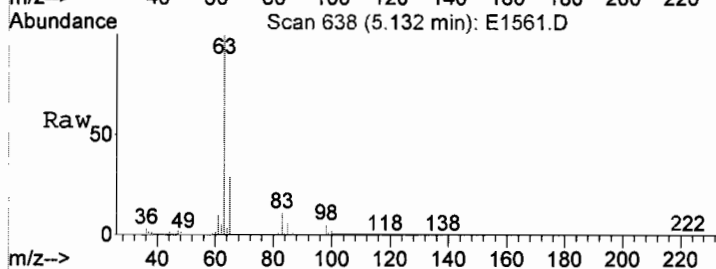
Tgt Ion: 96 Resp: 73511
Ion Ratio Lower Upper
96 100
96 100.0 80.0 120.0
61 226.2 0.0 0.0#
63 68.7 0.0 0.0#



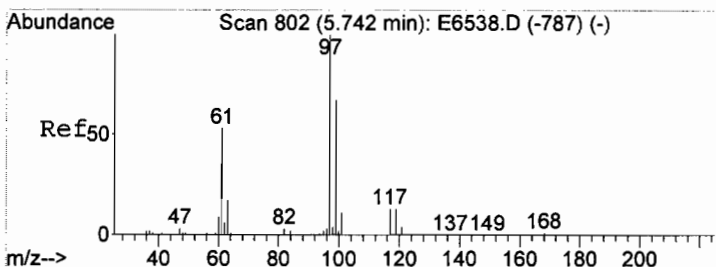
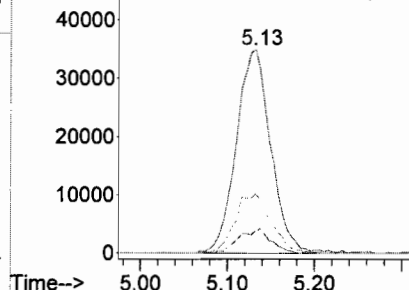
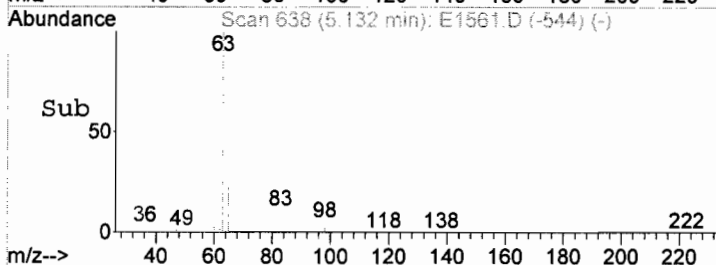


#18
 1,1-Dichloroethane
 Concen: 6.71 UG
 RT: 5.13 min Scan# 638
 Delta R.T. -0.01 min
 Lab File: E1561.D
 Acq: 19 Sep 2017 5:37

Tgt Ion: 63 Resp: 96182
 Ion Ratio Lower Upper
 63 100
 65 100.0 80.0 120.0
 83 11.4 11.3 16.9

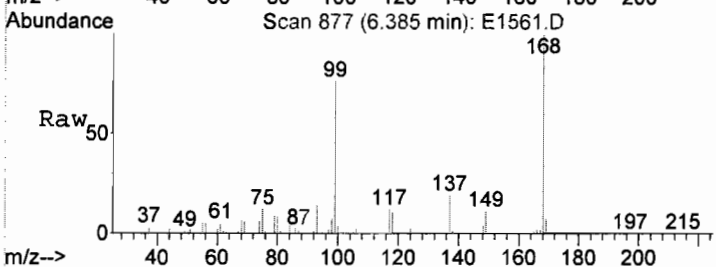


Abundance Ion 62.95 (62.65 to 63.65): E15
 Ion 62.95 (62.65 to 63.65): E15
 Ion 64.95 (64.65 to 65.65): E15
 Ion 83.10 (82.80 to 83.80): E15

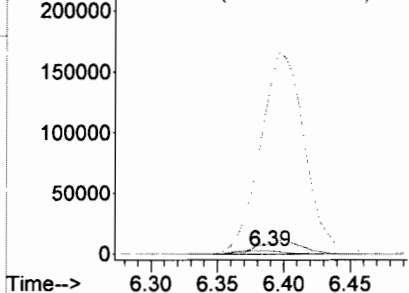
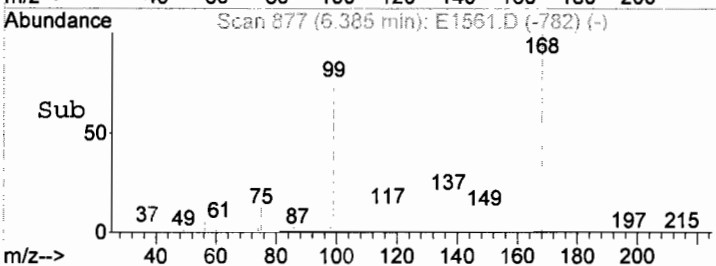


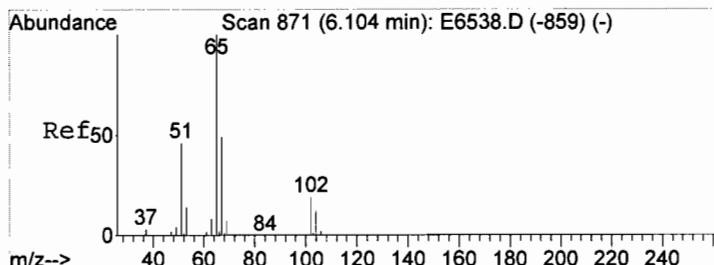
#26
 1,1,1-Trichloroethane
 Concen: 0.76 UG
 RT: 6.39 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: E1561.D
 Acq: 19 Sep 2017 5:37

Tgt Ion: 97 Resp: 6893
 Ion Ratio Lower Upper
 97 100
 99 100.0 80.0 120.0
 99 0.0 0.0 0.0
 61 0.0 31.7 47.5#



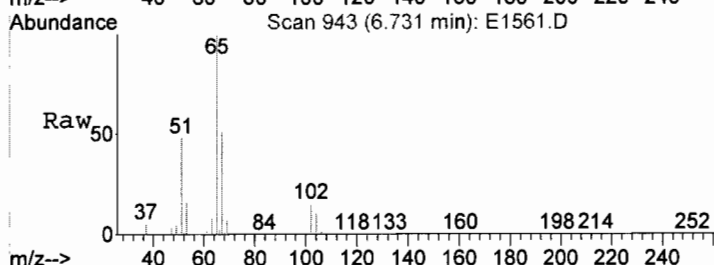
Abundance Ion 96.90 (96.60 to 97.60): E15
 Ion 96.90 (96.60 to 97.60): E15
 Ion 98.90 (98.60 to 99.60): E15
 Ion 61.00 (60.70 to 61.70): E15



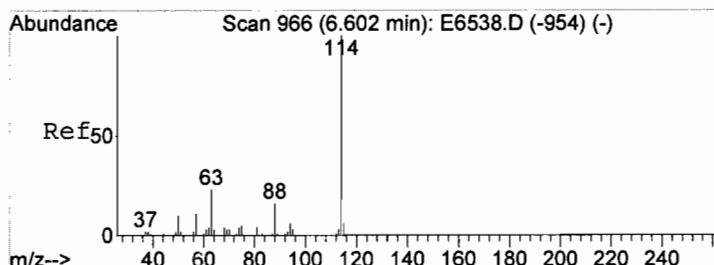
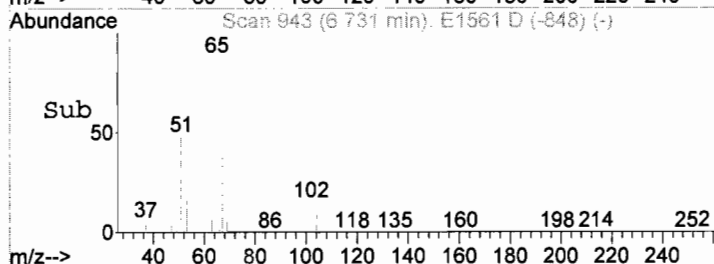
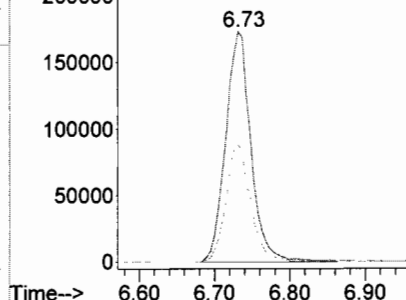


#30
 1,2-Dichloroethane-d4
 Concen: 40.82 UG
 RT: 6.73 min Scan# 943
 Delta R.T. 0.00 min
 Lab File: E1561.D
 Acq: 19 Sep 2017 5:37

Tgt Ion: 65 Resp: 401711
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 67 50.5 43.2 64.8

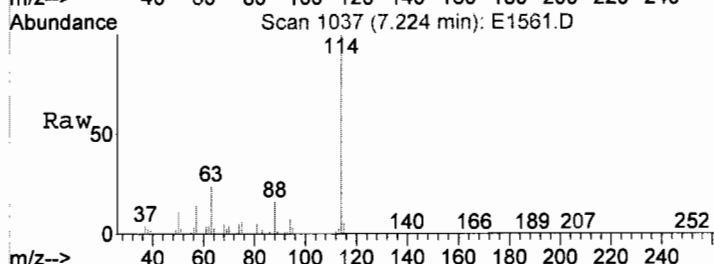


Abundance Ion 65.15 (64.85 to 65.85): E15
 Ion 65.15 (64.85 to 65.85): E15
 Ion 67.15 (66.85 to 67.85): E15

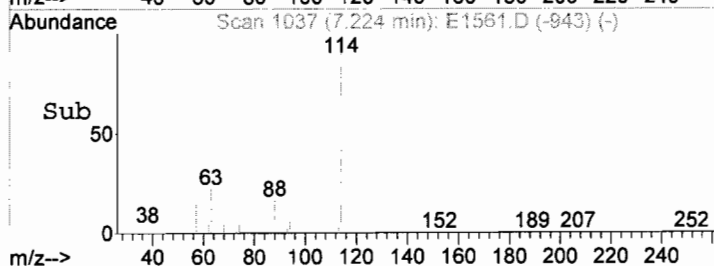
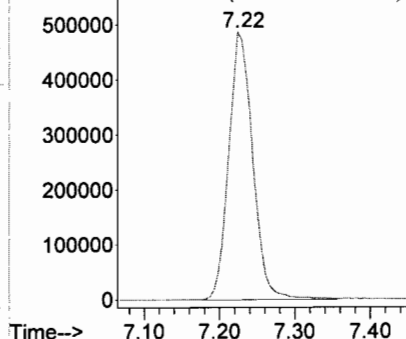


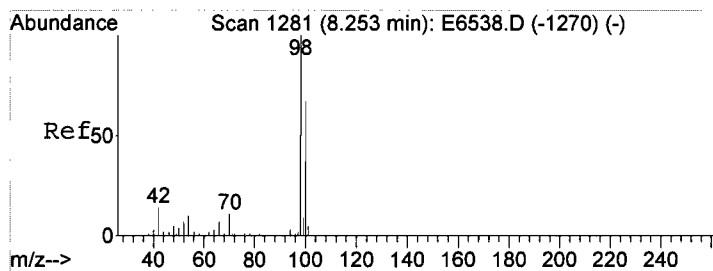
#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.22 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: E1561.D
 Acq: 19 Sep 2017 5:37

Tgt Ion: 114 Resp: 1076278
 Ion Ratio Lower Upper
 114 100
 114 100.0 80.0 120.0



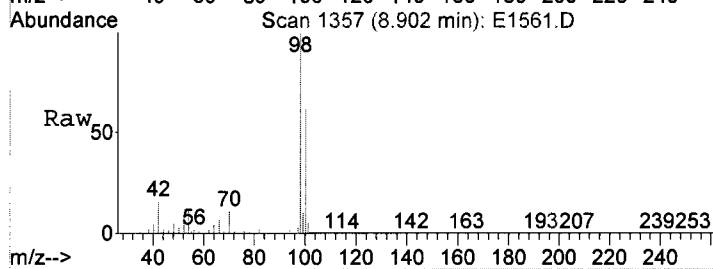
Abundance Ion 114.00 (113.70 to 114.70): I
 Ion 114.00 (113.70 to 114.70): I



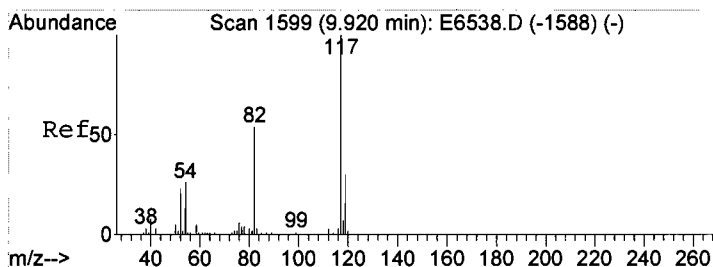
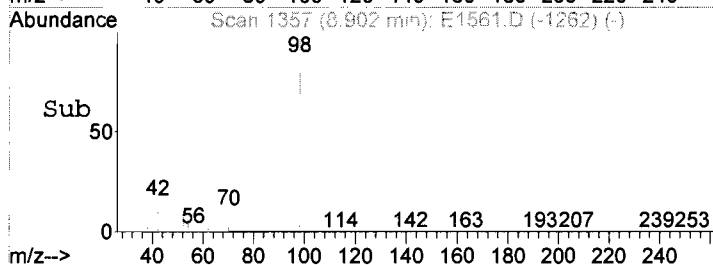
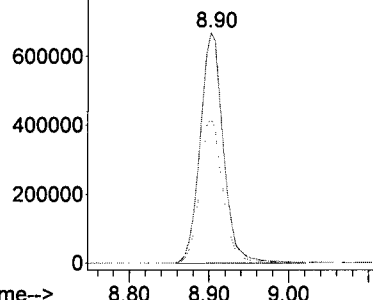


#41
Toluene-d8
Concen: 48.96 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1561.D
Acq: 19 Sep 2017 5:37

Tgt Ion: 98 Resp: 1347478
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.8 53.4 80.0

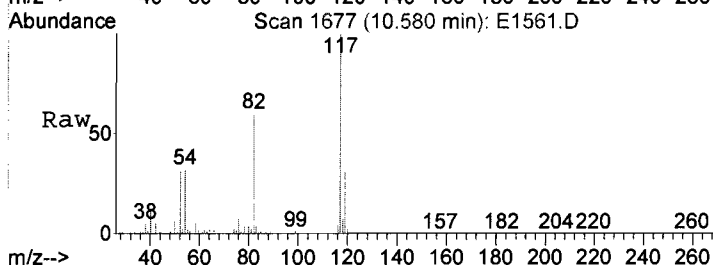


Abundance Ion 98.00 (97.70 to 98.70): E1561.D
Ion 98.00 (97.70 to 98.70): E1561.D
Ion 100.00 (99.70 to 100.70): E1561.D

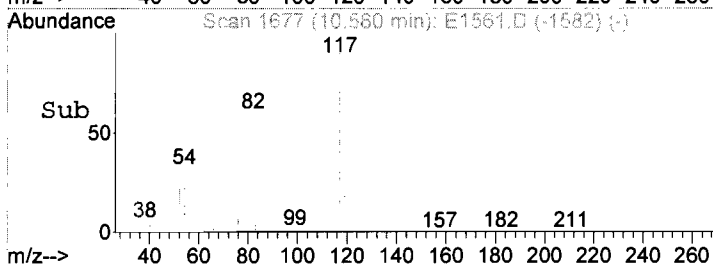
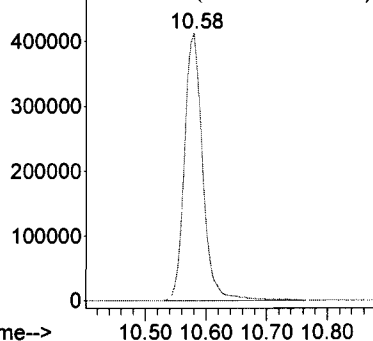


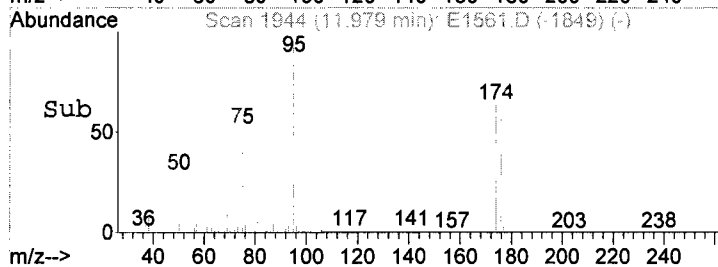
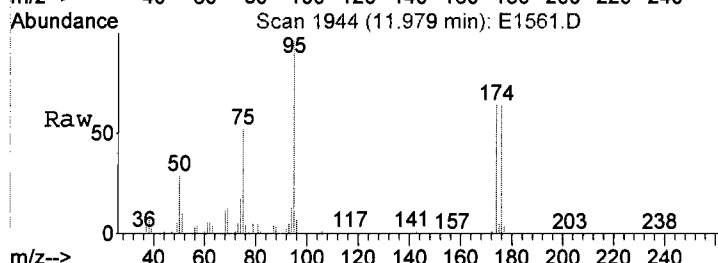
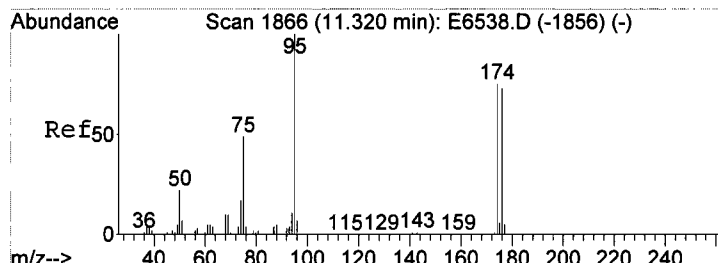
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1561.D
Acq: 19 Sep 2017 5:37

Tgt Ion: 117 Resp: 858118
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



Abundance Ion 117.00 (116.70 to 117.70): E1561.D
Ion 117.00 (116.70 to 117.70): E1561.D





#59

Bromofluorobenzene

Concen: 45.04 UG

RT: 11.98 min Scan# 1944

Delta R.T. 0.00 min

Lab File: E1561.D

Acq: 19 Sep 2017 5:37

Tgt Ion: 95 Resp: 453822

Ion Ratio Lower Upper

95 100

95 100.0 80.0 120.0

174 66.7 62.9 94.3

176 68.3 60.5 90.7

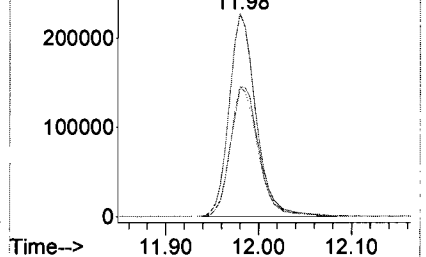
Abundance

Ion 95.05 (94.75 to 95.75): E15

Ion 95.05 (94.75 to 95.75): E15

Ion 174.00 (173.70 to 174.70): E15

Ion 175.95 (175.65 to 176.65): E15



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1561.D
Acq On : 19 Sep 2017 5:37
Operator : BARBARA
Sample : MW-1, E17-07838-010, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 35 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.1
Stop Thrs : 0.1
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

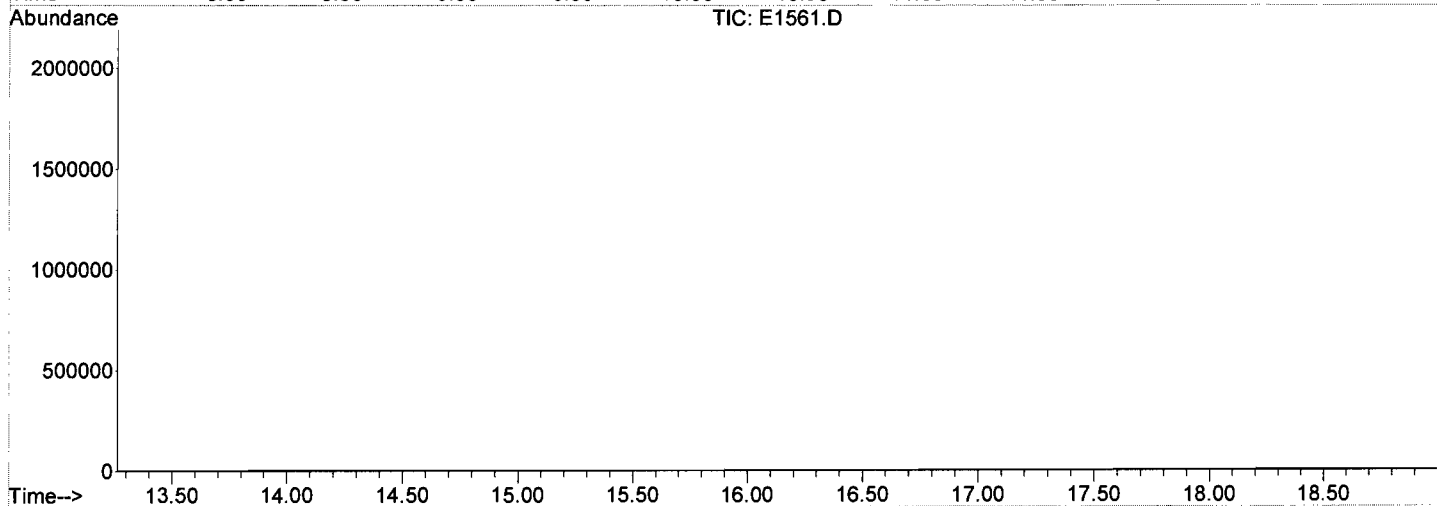
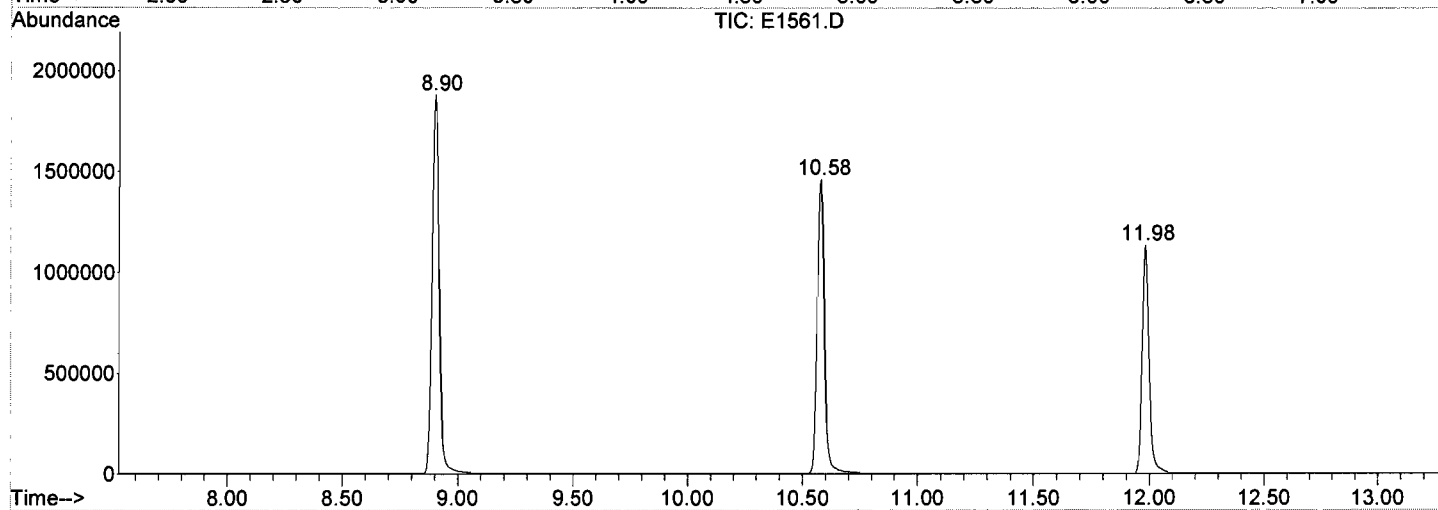
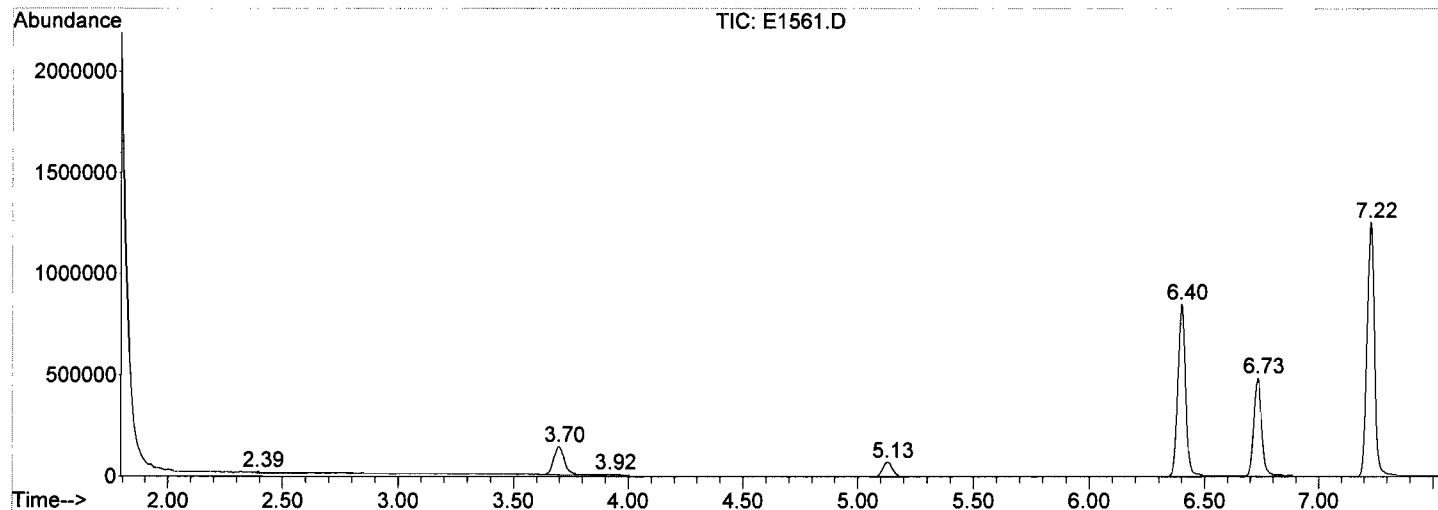
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.390	114	115	156	rVB3	6743	40537	1.03%	0.250%
2	3.695	352	364	403	rVV3	138724	493916	12.53%	3.044%
3	3.921	403	407	434	rVB3	9299	46284	1.17%	0.285%
4	5.127	626	637	654	rBV	68832	203442	5.16%	1.254%
5	6.396	866	879	905	rBV	846935	1978445	50.18%	12.194%
6	6.731	931	943	968	rBV2	482573	1159015	29.40%	7.143%
7	7.224	1023	1037	1077	rBV	1253809	2860339	72.54%	17.629%
8	8.902	1345	1357	1398	rBV	1879587	3942879	100.00%	24.301%
9	10.580	1663	1677	1717	rBV	1459158	3135468	79.52%	19.325%
10	11.979	1930	1944	1973	rBV2	1135249	2364544	59.97%	14.574%

Sum of corrected areas: 16224869

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1561.D
Acq On : 19 Sep 2017 5:37
Operator : BARBARA
Sample : MW-1, E17-07838-010, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 35 Sample Multiplier: 1

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1562.D
Acq On : 19 Sep 2017 6:07
Operator : BARBARA
Sample : MW-5, E17-07838-011, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 19 09:51:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	612768	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1164699	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	921674	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	528846	50.75	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	101.50%
41) Toluene-d8	8.90	98	1443976	48.48	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.96%
59) Bromofluorobenzene	11.98	95	507593	46.90	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.80%

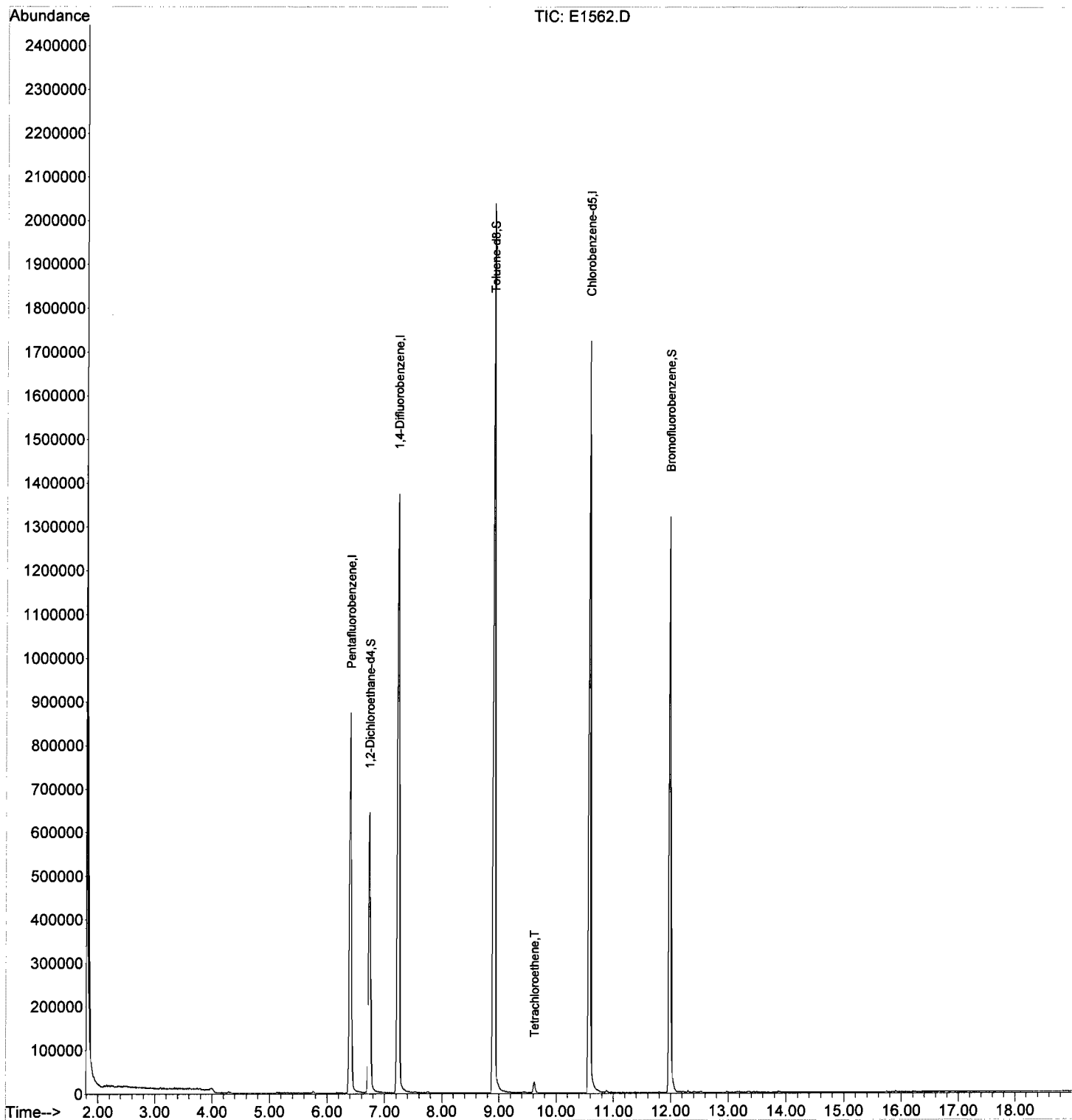
Target Compounds

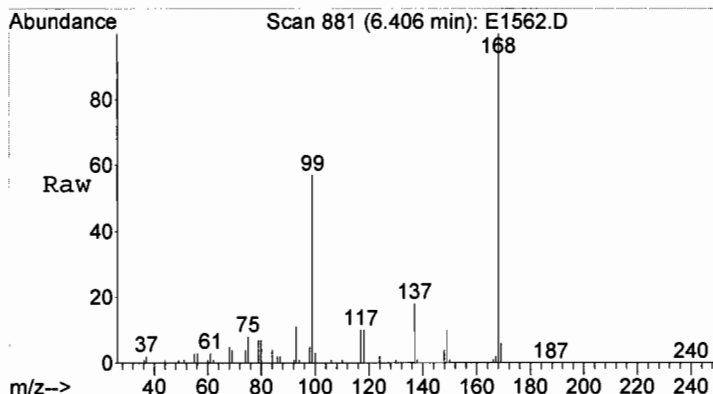
					Qvalue
45) Tetrachloroethene	9.62	166	7889	1.18	UG # 77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1562.D
Acq On : 19 Sep 2017 6:07
Operator : BARBARA
Sample : MW-5, E17-07838-011, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 36 Sample Multiplier: 1

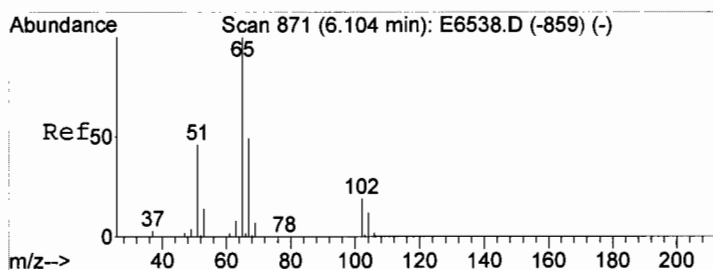
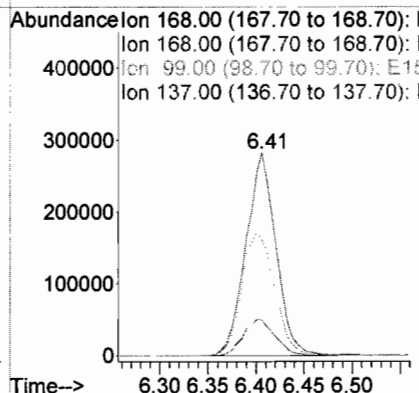
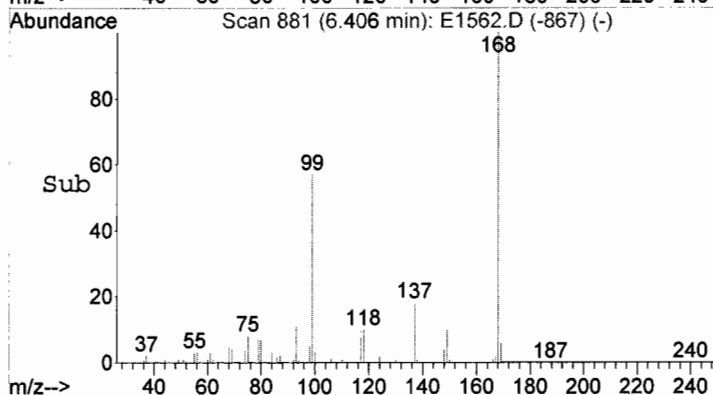
Quant Time: Sep 19 09:51:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





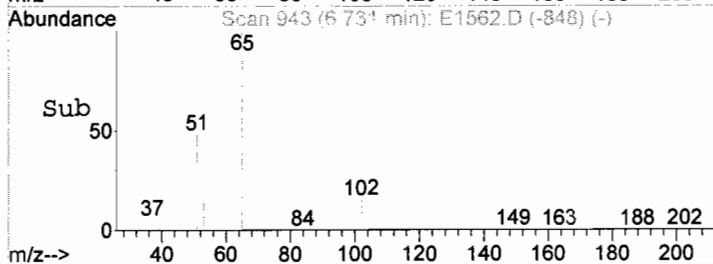
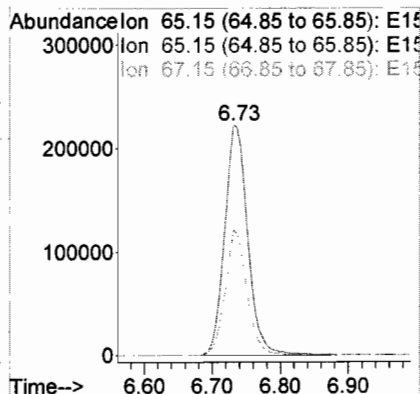
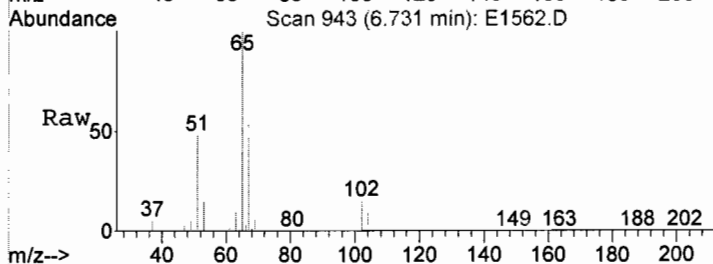
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1562.D
Acq: 19 Sep 2017 6:07

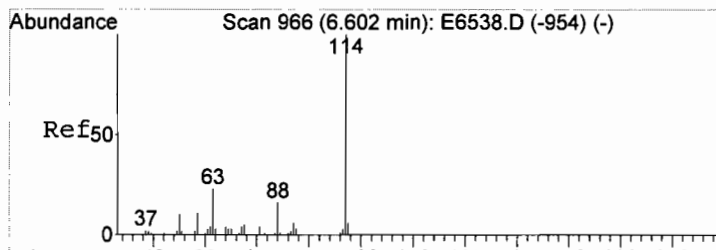
Tgt Ion: 168 Resp: 612768
Ion Ratio Lower Upper
168 100
168 100.0 80.0 120.0
99 67.1 0.0 0.0#
137 19.2 0.0 0.0#



#30
1,2-Dichloroethane-d4
Concen: 50.75 UG
RT: 6.73 min Scan# 943
Delta R.T. -0.00 min
Lab File: E1562.D
Acq: 19 Sep 2017 6:07

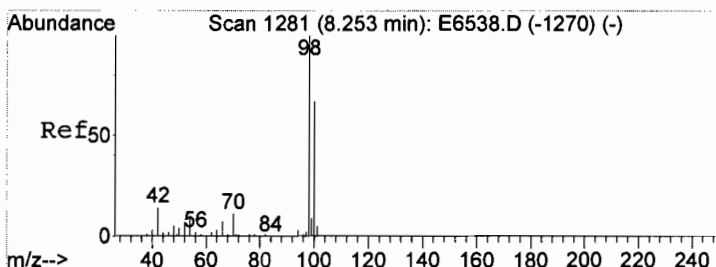
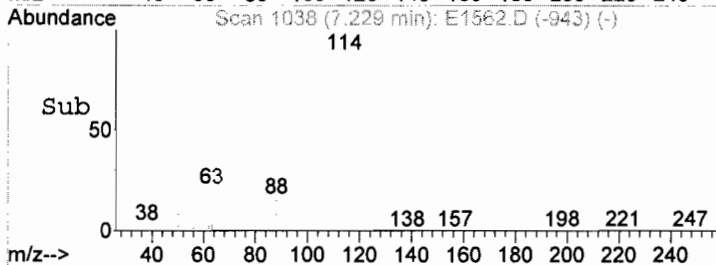
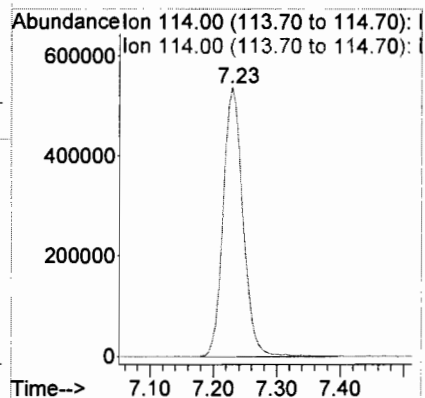
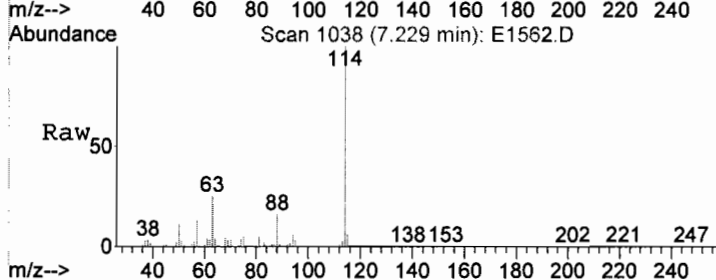
Tgt Ion: 65 Resp: 528846
Ion Ratio Lower Upper
65 100
65 100.0 80.0 120.0
67 51.0 43.2 64.8





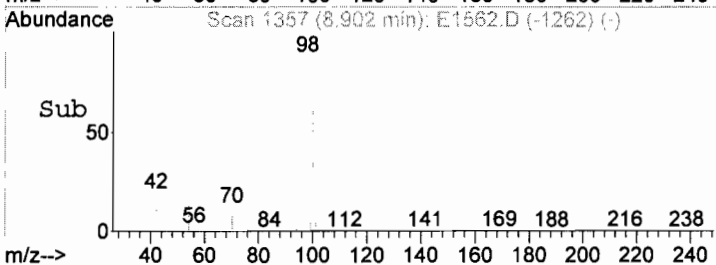
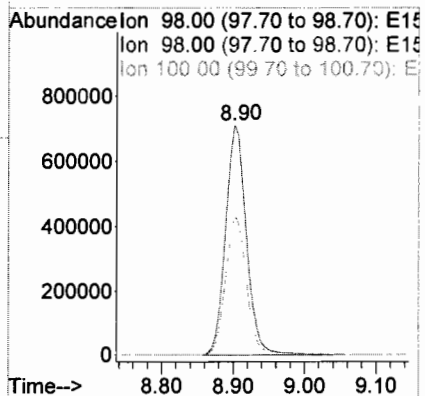
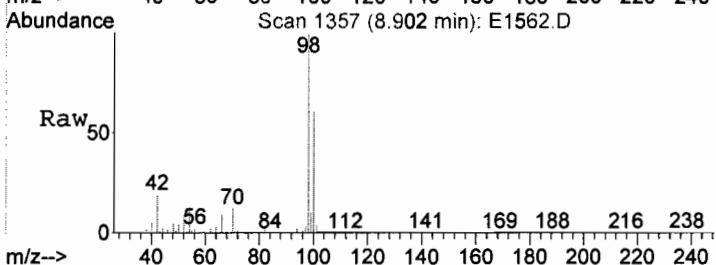
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. -0.00 min
Lab File: E1562.D
Acq: 19 Sep 2017 6:07

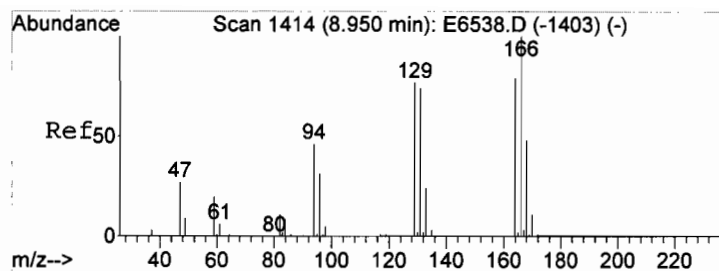
Tgt Ion: 114 Resp: 1164699
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 48.48 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1562.D
Acq: 19 Sep 2017 6:07

Tgt Ion: 98 Resp: 1443976
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.1 53.4 80.0





#45

Tetrachloroethene

Concen: 1.18 UG

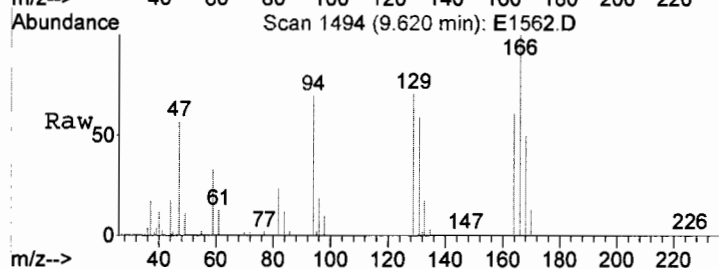
RT: 9.62 min Scan# 1494

Delta R.T. 0.01 min

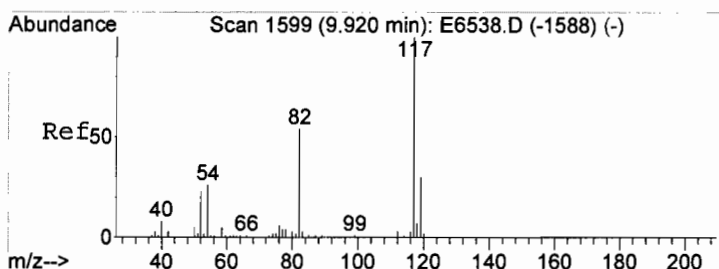
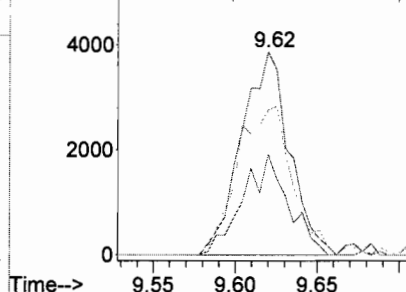
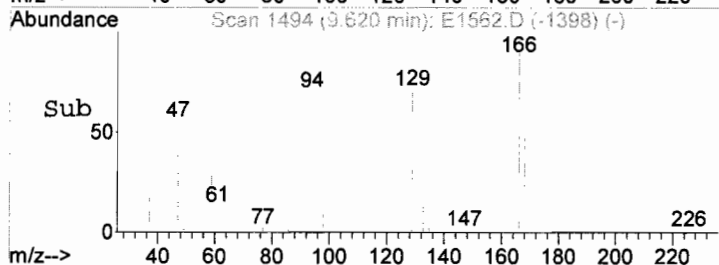
Lab File: E1562.D

Acq: 19 Sep 2017 6:07

Tgt Ion:	166	Resp:	7889
Ion Ratio	Lower	Upper	
166	100		
166	100.0	80.0	120.0
129	0.0	0.0	0.0
168	0.0	38.3	57.5#



Abundance Ion 165.90 (165.60 to 166.60): I
6000 Ion 165.90 (165.60 to 166.60): I
Ion 129.00 (128.70 to 129.70): I
Ion 167.90 (167.60 to 168.60): I



#50

Chlorobenzene-d5

Concen: 50.00 UG

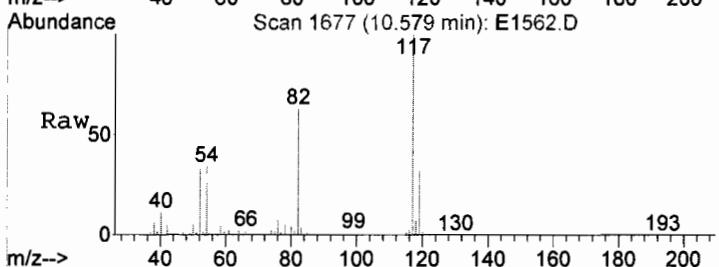
RT: 10.58 min Scan# 1677

Delta R.T. -0.00 min

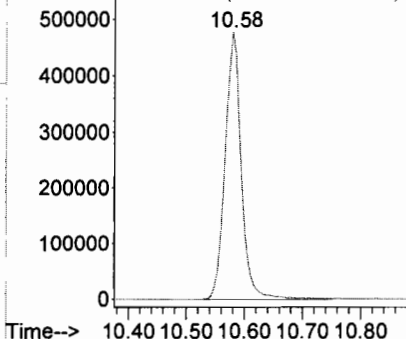
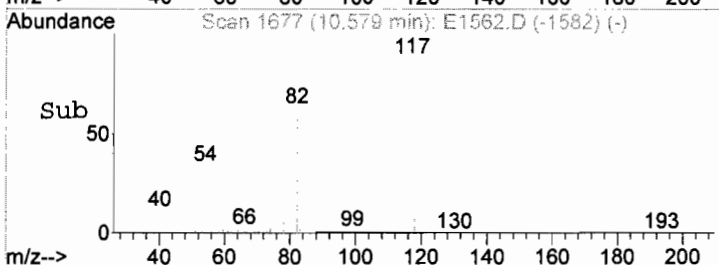
Lab File: E1562.D

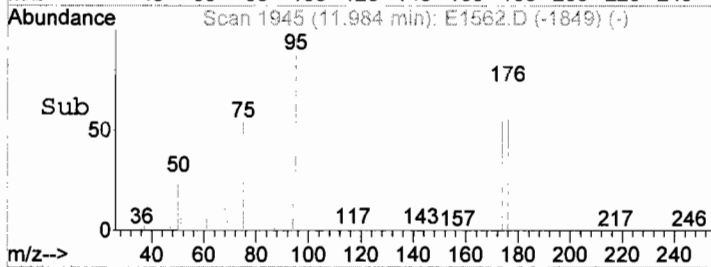
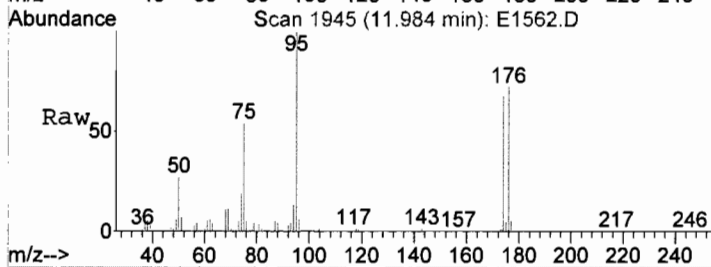
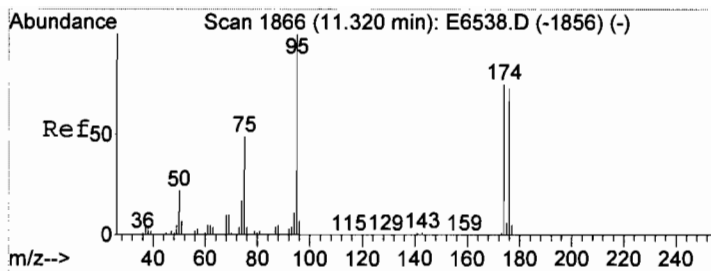
Acq: 19 Sep 2017 6:07

Tgt Ion:	117	Resp:	921674
Ion Ratio	Lower	Upper	
117	100		
117	100.0	80.0	120.0



Abundance Ion 117.00 (116.70 to 117.70): I
Ion 117.00 (116.70 to 117.70): I





#59

Bromofluorobenzene

Concen: 46.90 UG

RT: 11.98 min Scan# 1945

Delta R.T. 0.01 min

Lab File: E1562.D

Acq: 19 Sep 2017 6:07

Tgt Ion:	95	Resp:	507593
Ion	Ratio	Lower	Upper
95	100		
95	100.0	80.0	120.0
174	66.7	62.9	94.3
176	70.1	60.5	90.7

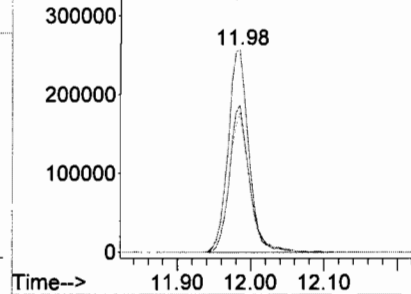
Abundance

Ion 95.05 (94.75 to 95.75): E15

Ion 95.05 (94.75 to 95.75): E15

Ion 174.00 (173.70 to 174.70): E15

Ion 175.95 (175.65 to 176.65): E15



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1562.D
Acq On : 19 Sep 2017 6:07
Operator : BARBARA
Sample : MW-5, E17-07838-011, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.406	868	881	912	rBV2	872653	2075799	49.39%	12.227%
2	6.736	926	944	965	rBV	642158	1522223	36.22%	8.967%
3	7.229	1021	1038	1073	rBV	1373833	3053948	72.67%	17.989%
4	8.902	1344	1357	1397	rBV	2038132	4202502	100.00%	24.755%
5	9.620	1484	1494	1515	rVB4	25360	65714	1.56%	0.387%
6	10.579	1664	1677	1715	rBV	1724904	3419009	81.36%	20.140%
7	11.979	1933	1944	1971	rBV	1322887	2637416	62.76%	15.536%

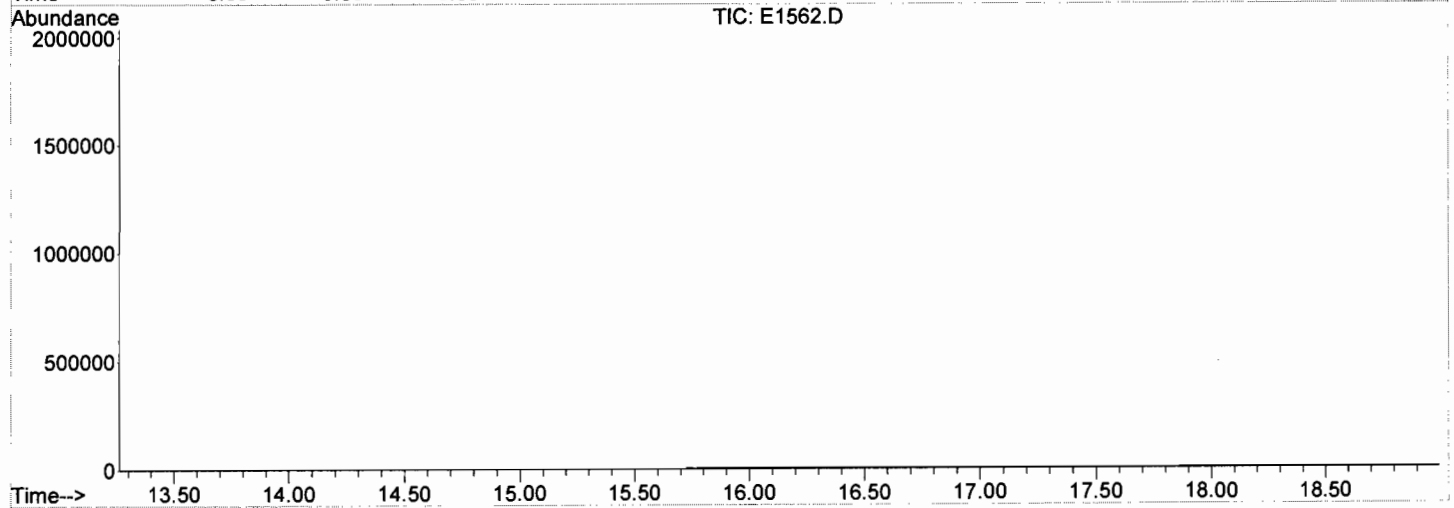
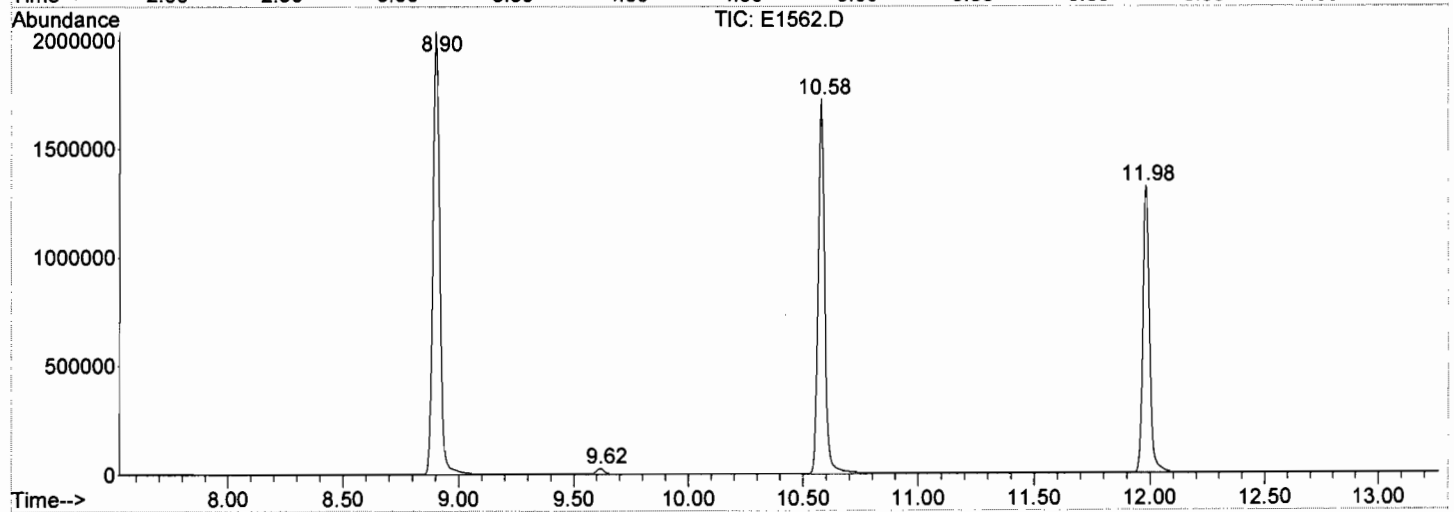
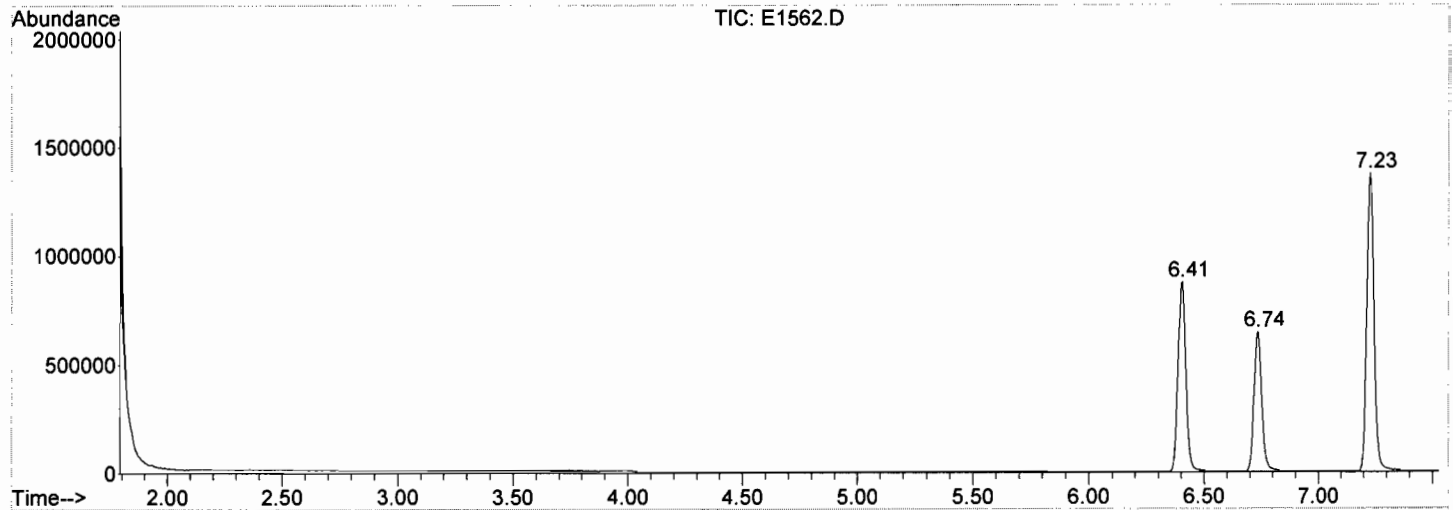
Sum of corrected areas: 16976611

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1562.D
 Acq On : 19 Sep 2017 6:07
 Operator : BARBARA
 Sample : MW-5, E17-07838-011, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/12/17, 09/14/17, 1
 ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1563.D
Acq On : 19 Sep 2017 6:37
Operator : BARBARA
Sample : MW-8, E17-07838-012, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 19 09:50:54 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	566150	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1080822	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	840149	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	420437	43.67	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	87.34%
41) Toluene-d8	8.90	98	1328762	48.08	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.16%
59) Bromofluorobenzene	11.98	95	455644	46.18	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	92.36%

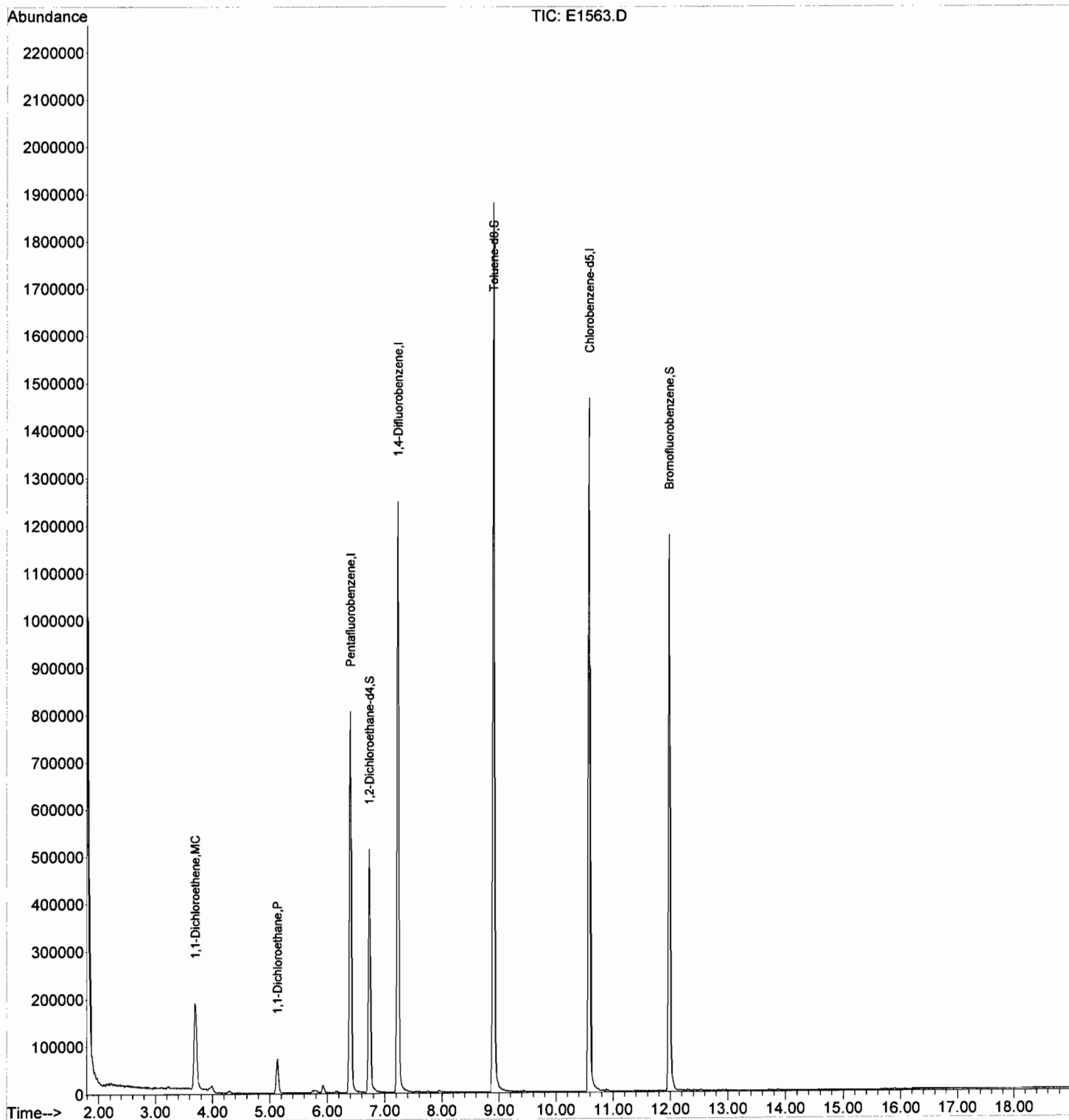
Target Compounds

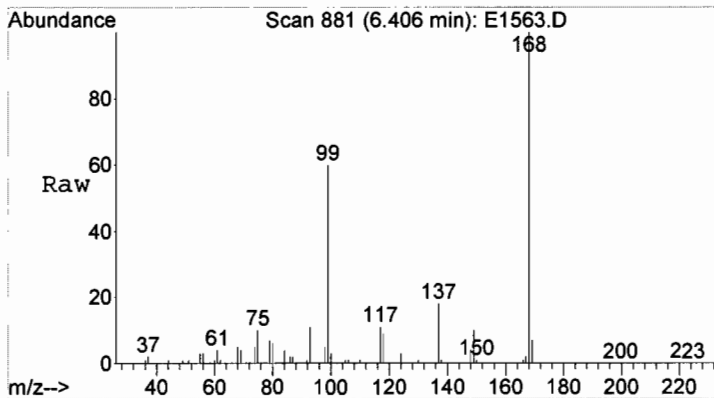
					Qvalue
9) 1,1-Dichloroethene	3.70	96	101864	16.10	UG # 100
18) 1,1-Dichloroethane	5.13	63	90140	6.43	UG 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1563.D
Acq On : 19 Sep 2017 6:37
Operator : BARBARA
Sample : MW-8,E17-07838-012,A,5mL,100
Misc : BVERITAS/LEXINGTON,09/13/17,09/14/17,1
ALS Vial : 37 Sample Multiplier: 1

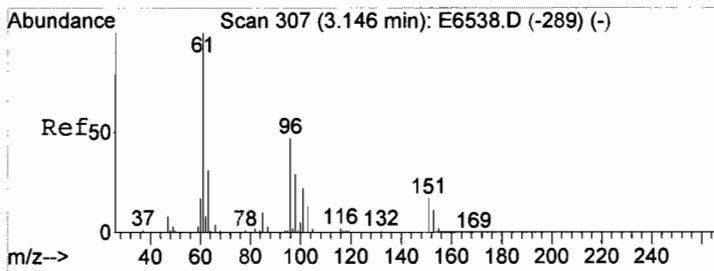
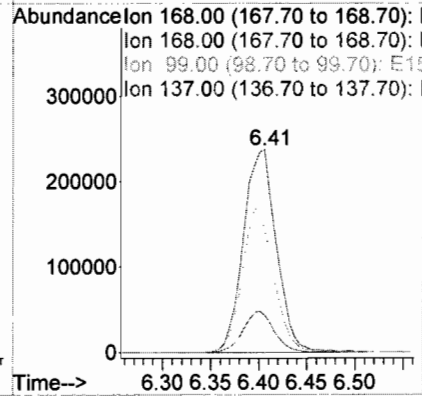
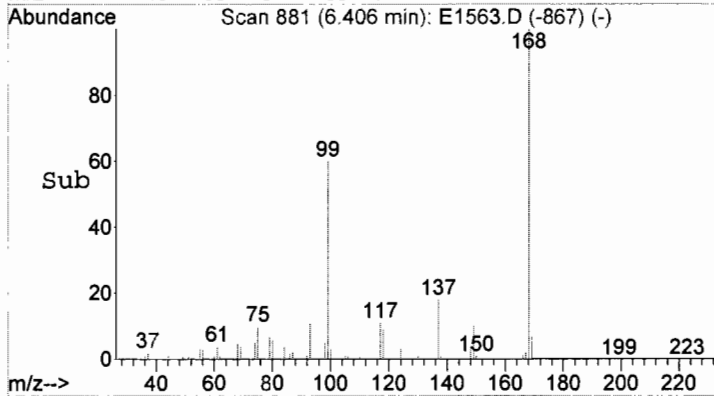
Quant Time: Sep 19 09:50:54 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





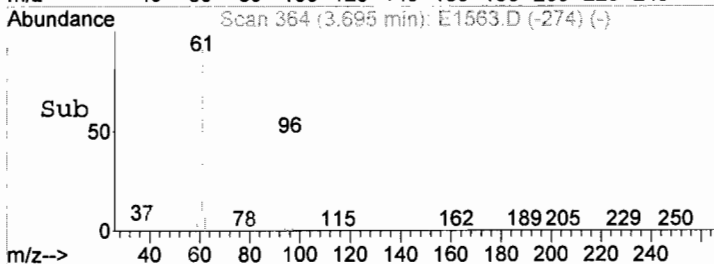
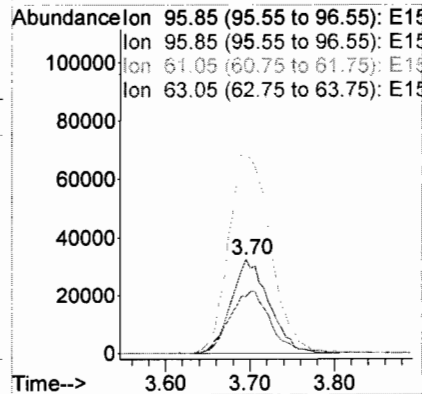
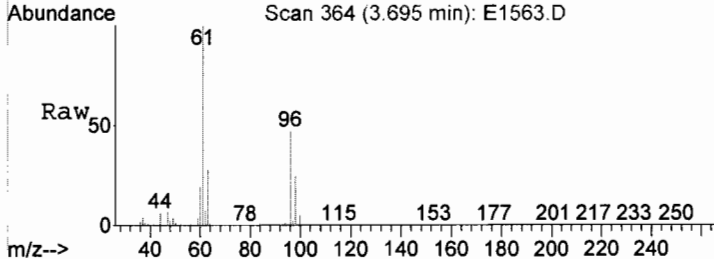
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

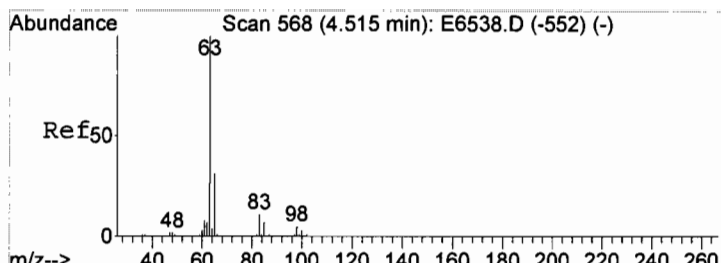
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	68.3	0.0	0.0#
137	19.3	0.0	0.0#



#9
1,1-Dichloroethene
Concen: 16.10 UG
RT: 3.70 min Scan# 364
Delta R.T. -0.03 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

Tgt Ion	Ratio	Lower	Upper
96	100		
96	100.0	80.0	120.0
61	0.0	0.0	0.0
63	70.0	0.0	0.0#





#18
1,1-Dichloroethane
Concen: 6.43 UG
RT: 5.13 min Scan# 637
Delta R.T. -0.01 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

Tgt Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	31.4	25.6	38.4
83	11.9	11.3	16.9

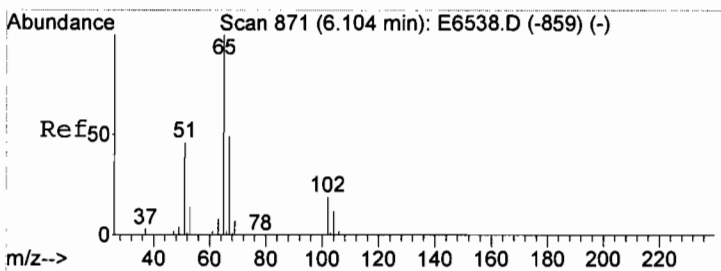
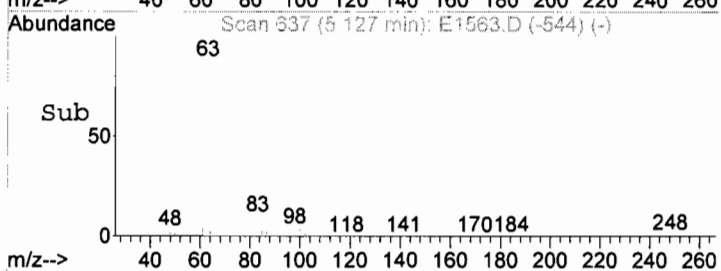
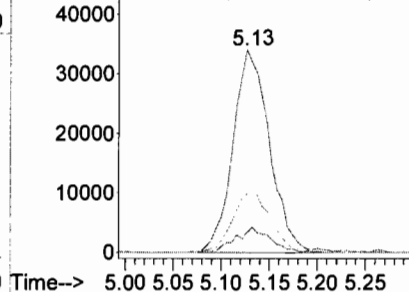
Abundance

Ion 62.95 (62.65 to 63.65): E15

Ion 62.95 (62.65 to 63.65): E15

Ion 64.95 (64.65 to 65.65): E15

Ion 83.10 (82.80 to 83.80): E15



#30
1,2-Dichloroethane-d4
Concen: 43.67 UG
RT: 6.73 min Scan# 943
Delta R.T. -0.00 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

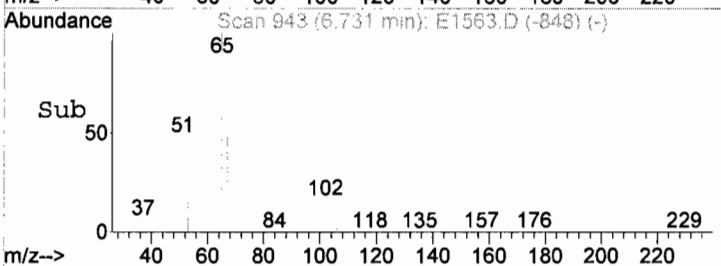
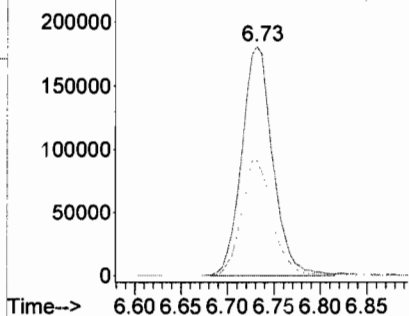
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.8	43.2	64.8

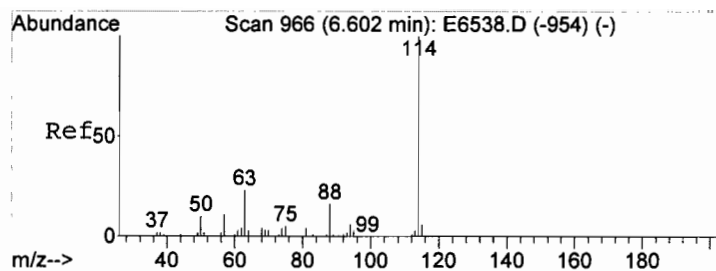
Abundance

Ion 65.15 (64.85 to 65.85): E15

Ion 65.15 (64.85 to 65.85): E15

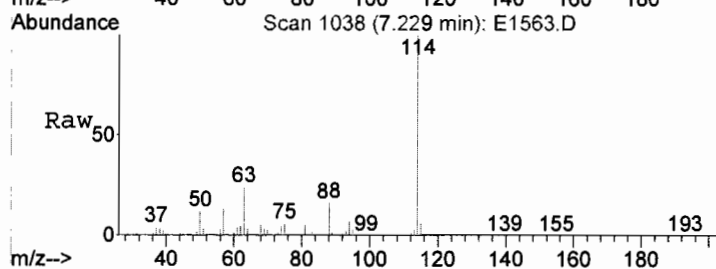
Ion 67.15 (66.85 to 67.85): E15



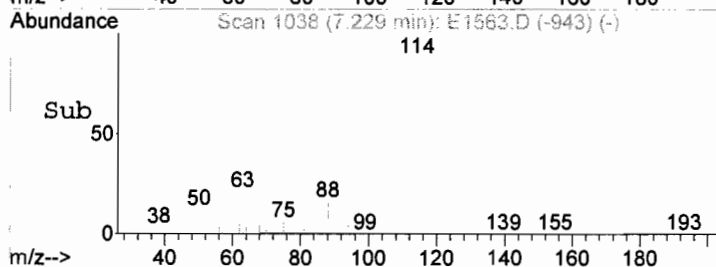
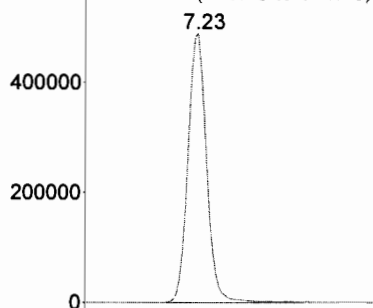


#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. -0.00 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

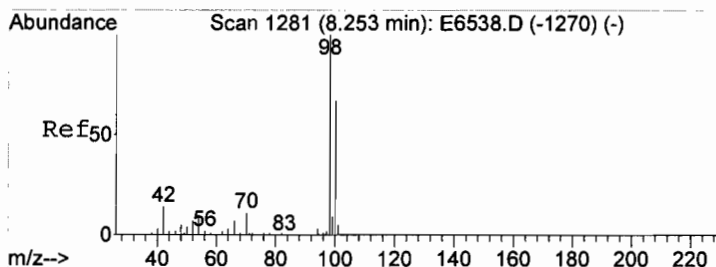
Tgt Ion: 114 Resp: 1080822
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



Abundance Ion 114.00 (113.70 to 114.70): I
Ion 114.00 (113.70 to 114.70): I

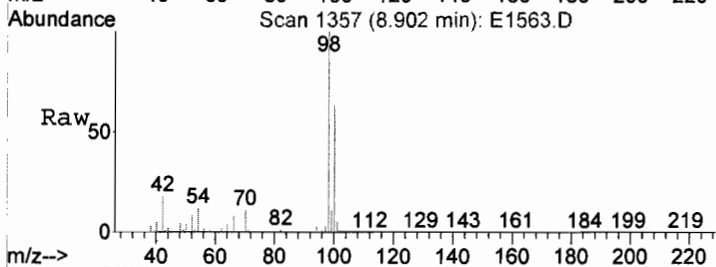


Time--> 7.10 7.20 7.30 7.40 7.50

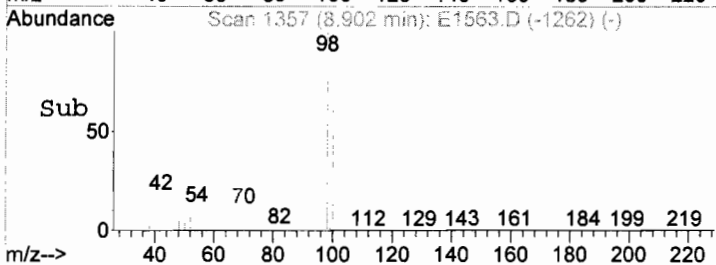
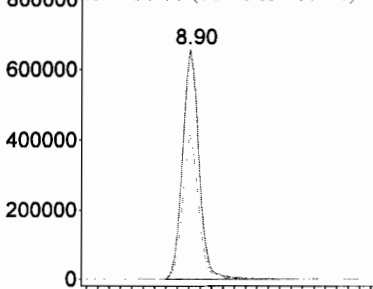


#41
Toluene-d8
Concen: 48.08 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

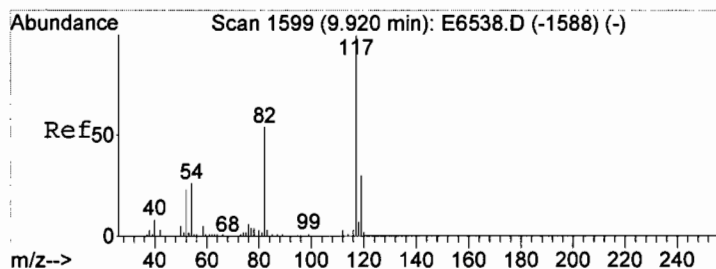
Tgt Ion: 98 Resp: 1328762
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.6 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): E15
Ion 98.00 (97.70 to 98.70): E15
Ion 100.00 (99.70 to 100.70): E15

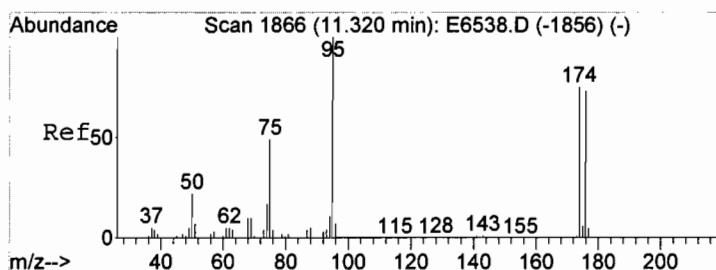
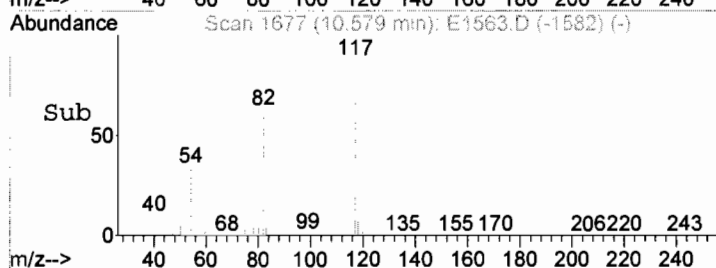
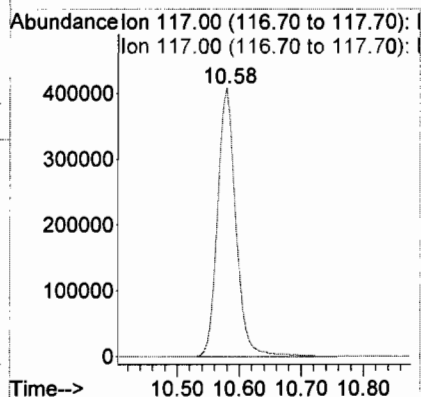
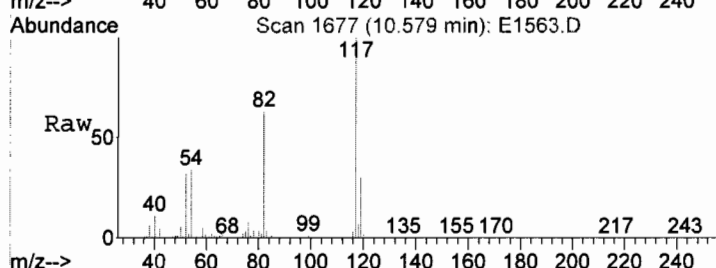


Time--> 8.80 8.90 9.00 9.10



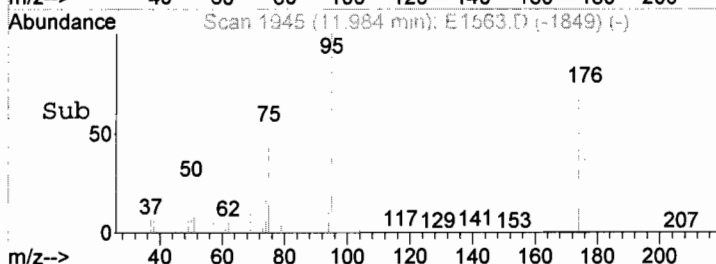
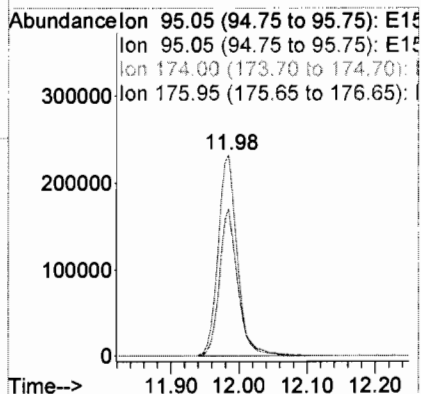
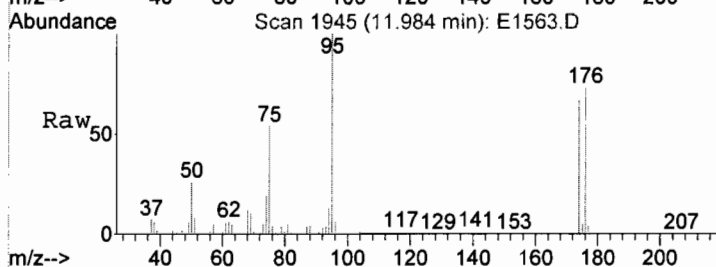
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

Tgt Ion: 117 Resp: 840149
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 46.18 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1563.D
Acq: 19 Sep 2017 6:37

Tgt Ion: 95 Resp: 455644
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 68.3 62.9 94.3
176 70.0 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1563.D
Acq On : 19 Sep 2017 6:37
Operator : BARBARA
Sample : MW-8, E17-07838-012, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 37 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.695	351	364	407	rVV2	182670	677384	17.58%	4.163%
2	3.984	407	419	437	rVB2	15382	67841	1.76%	0.417%
3	5.132	625	638	657	rBV2	71483	194744	5.05%	1.197%
4	5.923	781	789	799	rBV2	15996	40558	1.05%	0.249%
5	6.401	867	880	906	rBV2	806442	1923985	49.93%	11.824%
6	6.731	930	943	976	rBV2	513103	1237554	32.11%	7.606%
7	7.229	1025	1038	1060	rBV	1248883	2789280	72.38%	17.142%
8	8.902	1346	1357	1390	rBV	1879700	3853639	100.00%	23.683%
9	10.579	1666	1677	1716	rBV	1467989	3099565	80.43%	19.049%
10	11.979	1934	1944	1975	rBV	1178727	2387064	61.94%	14.670%

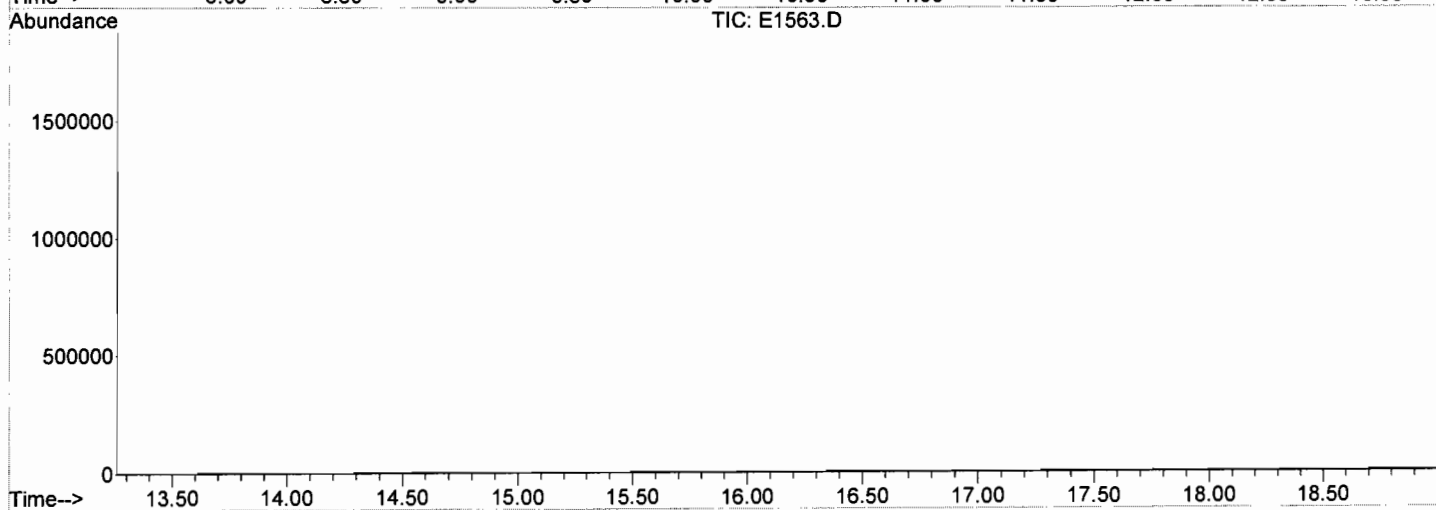
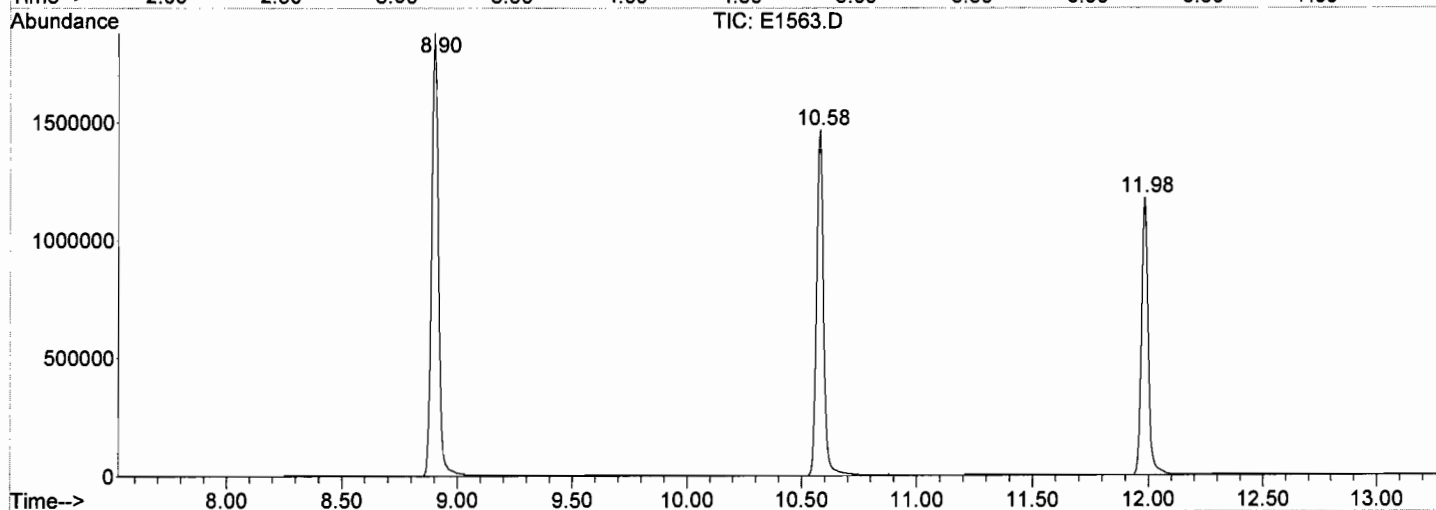
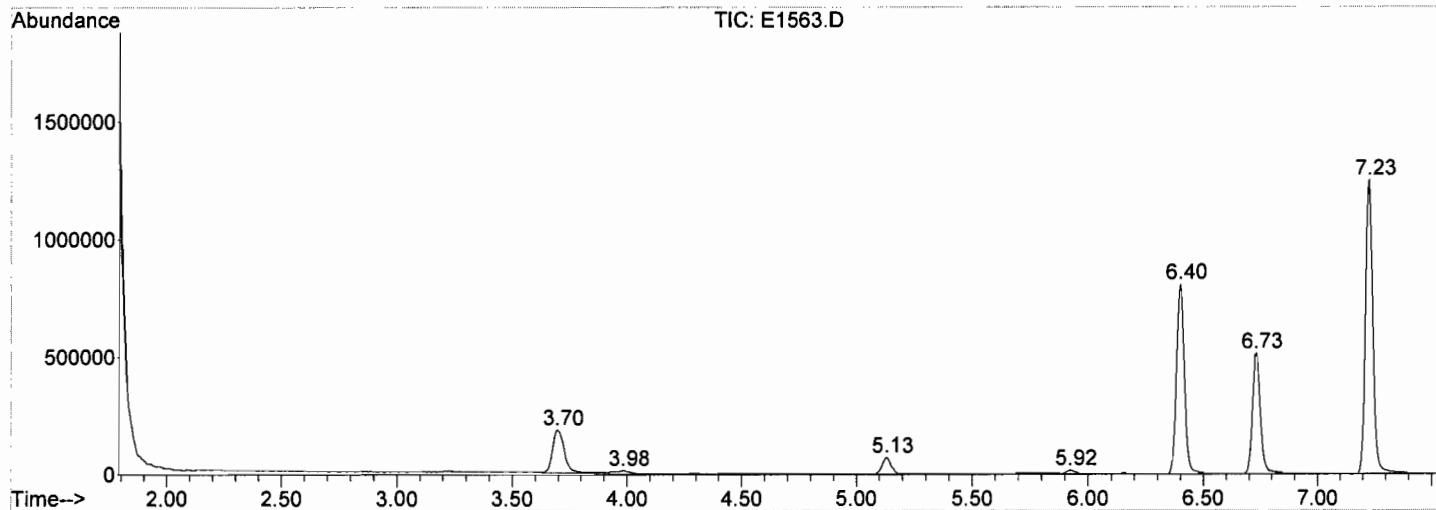
Sum of corrected areas: 16271614

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1563.D
 Acq On : 19 Sep 2017 6:37
 Operator : BARBARA
 Sample : MW-8, E17-07838-012, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
 ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1564.D
Acq On : 19 Sep 2017 7:06
Operator : BARBARA
Sample : MW-10, E17-07838-013, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 19 18:17:23 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	541844	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1027988	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	800916	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	411756	44.69	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	89.38%
41) Toluene-d8	8.90	98	1272566	48.41	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.82%
59) Bromofluorobenzene	11.98	95	437768	46.54	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.08%

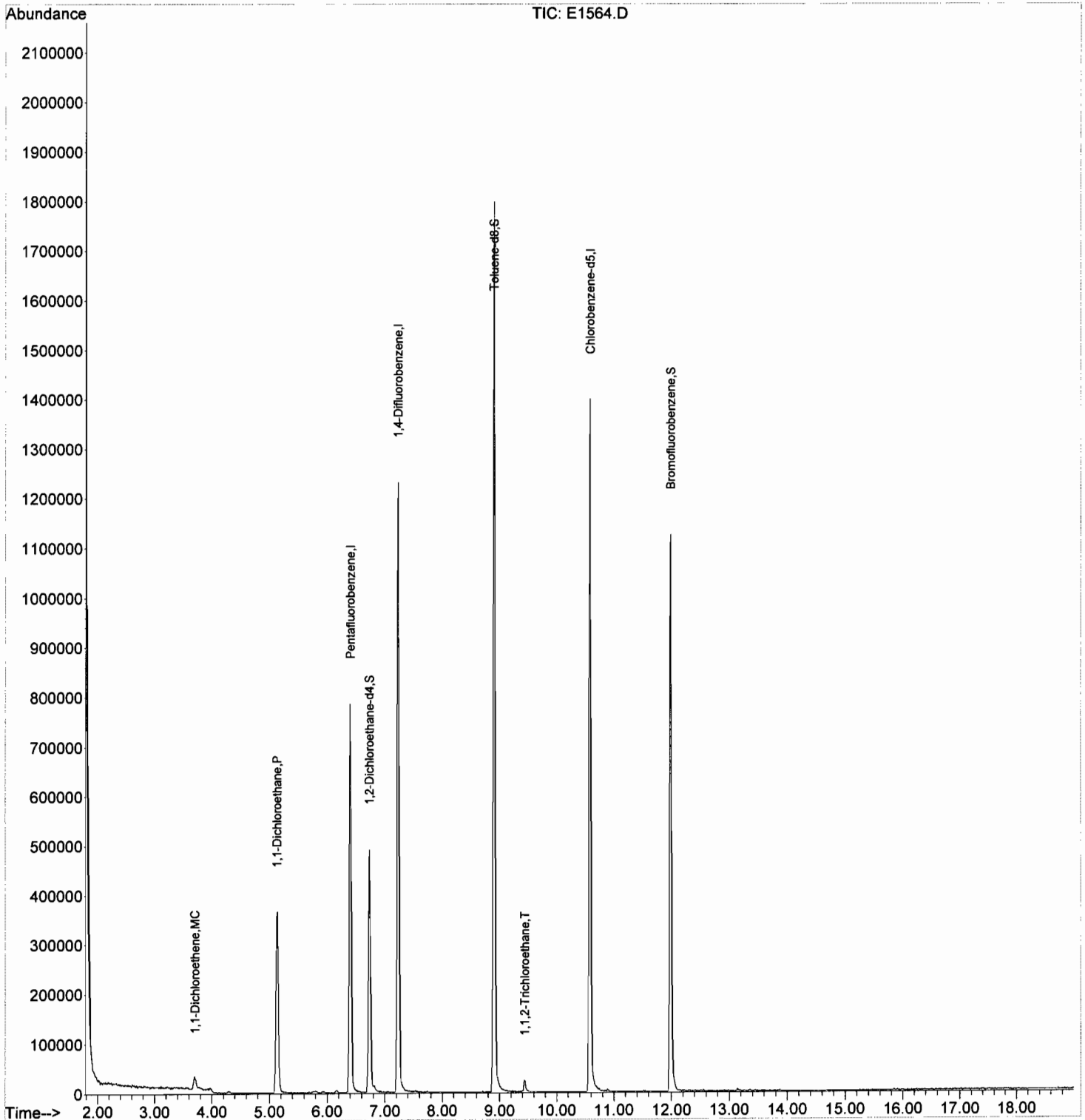
Target Compounds

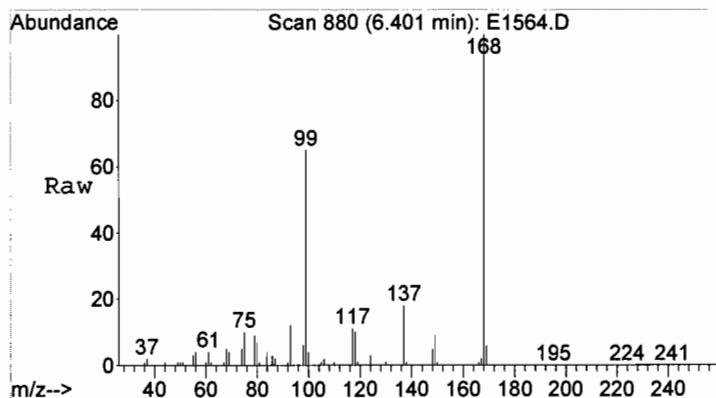
						Qvalue
9) 1,1-Dichloroethene	3.71	96	14026	2.32	UG	# 100
18) 1,1-Dichloroethane	5.14	63	510730	38.05	UG	# 96
44) 1,1,2-Trichloroethane	9.44	83	6694	1.21	UG	# 78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1564.D
Acq On : 19 Sep 2017 7:06
Operator : BARBARA
Sample : MW-10, E17-07838-013, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 38 Sample Multiplier: 1

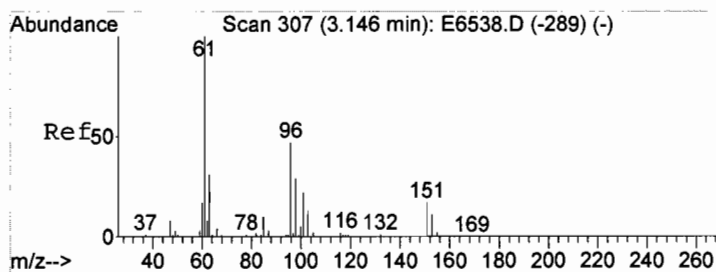
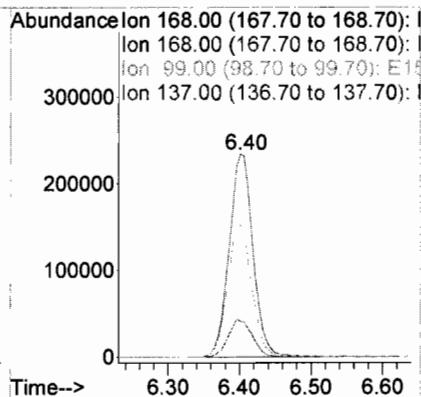
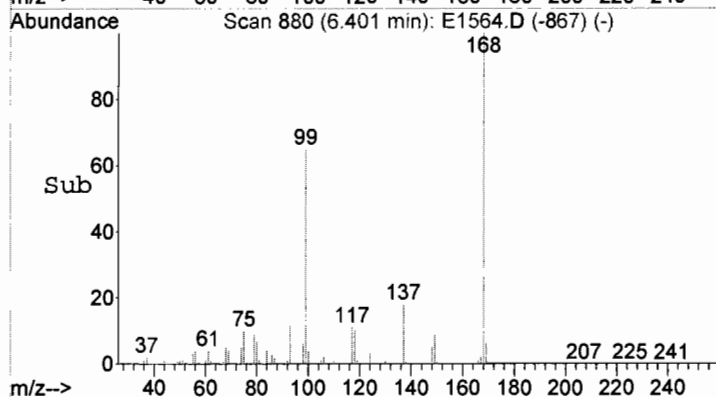
Quant Time: Sep 19 18:17:23 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





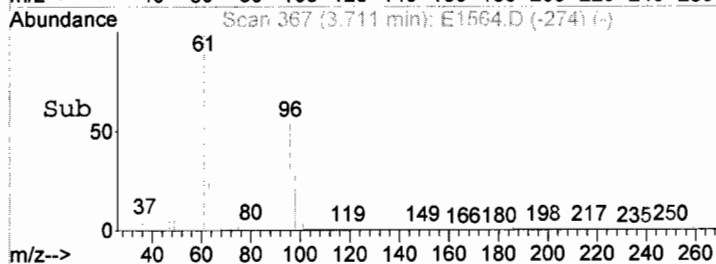
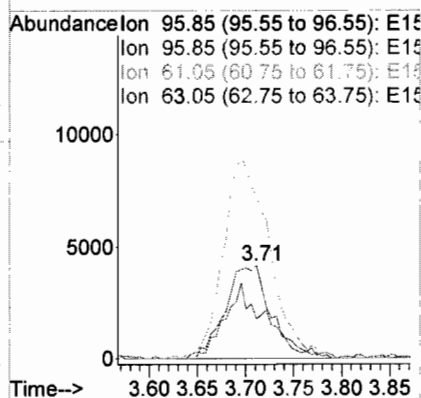
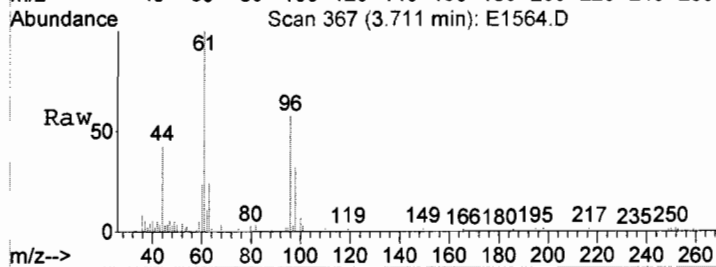
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

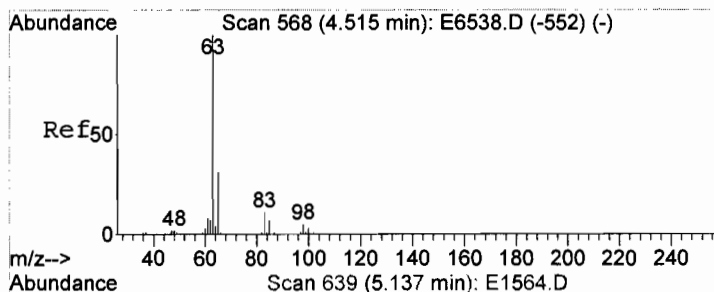
Tgt Ion:	168	Resp:	541844
Ion Ratio	Lower	Upper	
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#9
1,1-Dichloroethene
Concen: 2.32 UG
RT: 3.71 min Scan# 367
Delta R.T. -0.01 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

Tgt Ion:	96	Resp:	14026
Ion Ratio	Lower	Upper	
96	100.0	80.0	120.0
61	0.0	0.0	0.0
63	0.0	0.0	0.0

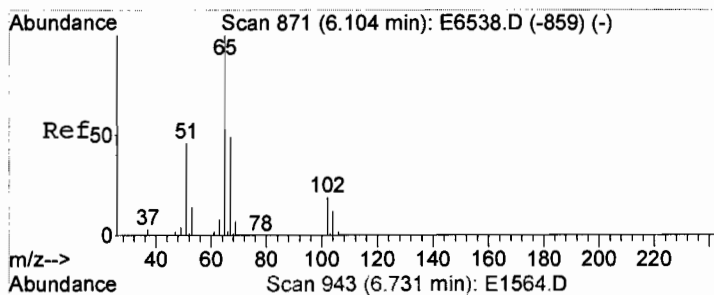
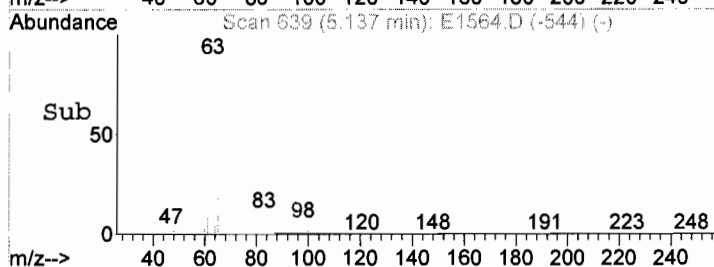
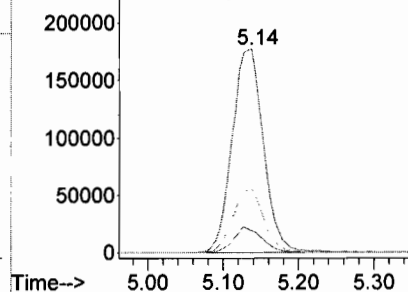




#18
1,1-Dichloroethane
Concen: 38.05 UG
RT: 5.14 min Scan# 639
Delta R.T. 0.00 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

Tgt Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	30.9	25.6	38.4
83	0.0	11.3	16.9

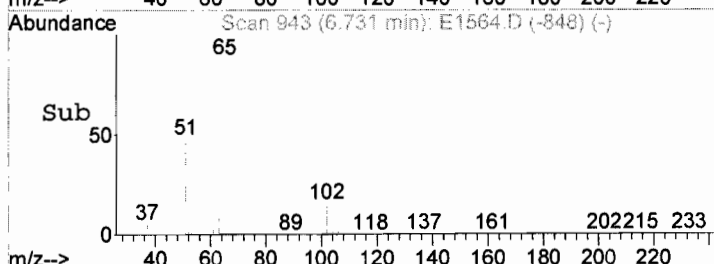
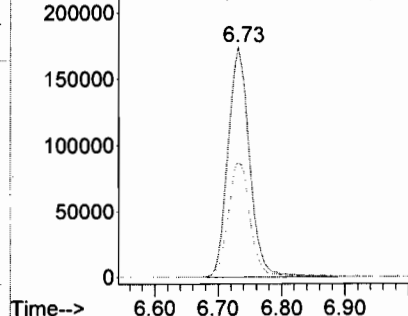
Abundance Ion 62.95 (62.65 to 63.65): E15
Ion 62.95 (62.65 to 63.65): E15
Ion 64.95 (64.65 to 65.65): E15
Ion 83.10 (82.80 to 83.80): E15

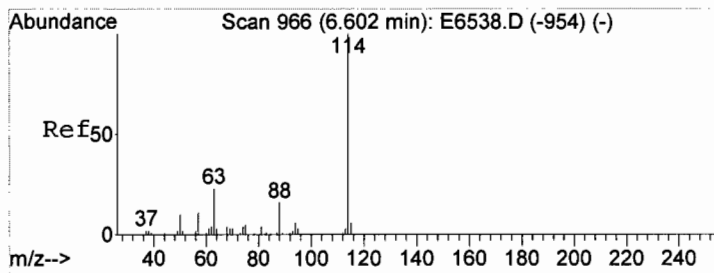


#30
1,2-Dichloroethane-d4
Concen: 44.69 UG
RT: 6.73 min Scan# 943
Delta R.T. 0.00 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.7	43.2	64.8

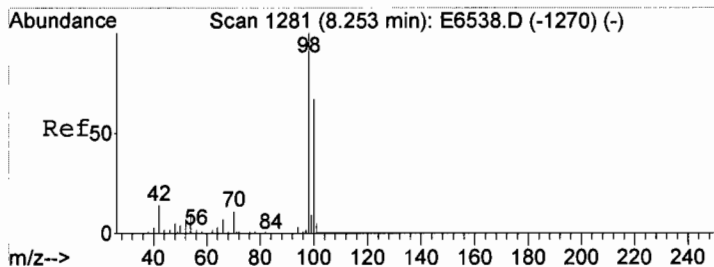
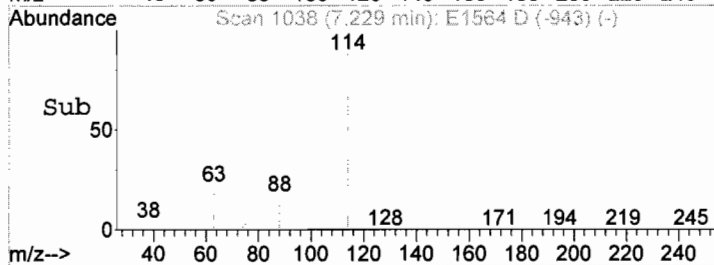
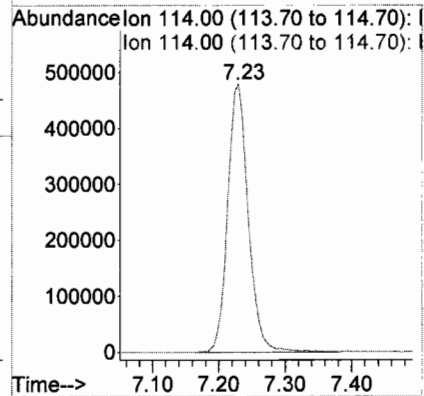
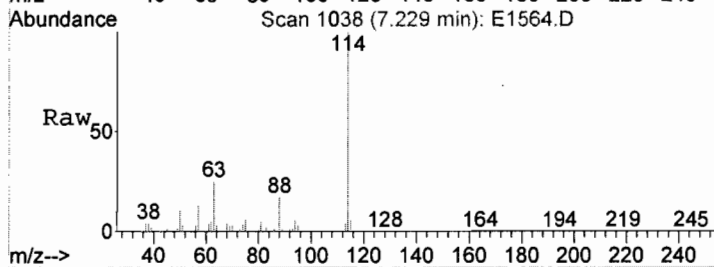
Abundance Ion 65.15 (64.85 to 65.85): E15
Ion 65.15 (64.85 to 65.85): E15
Ion 67.15 (66.85 to 67.85): E15





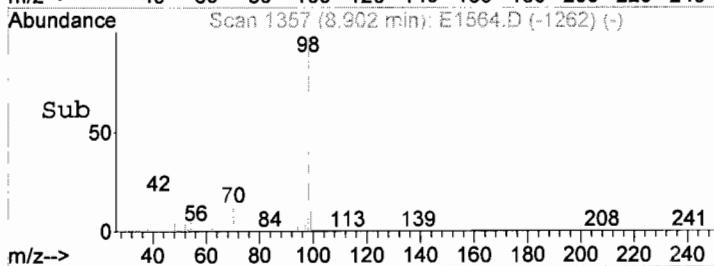
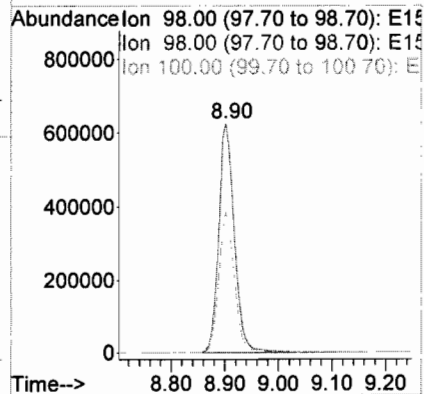
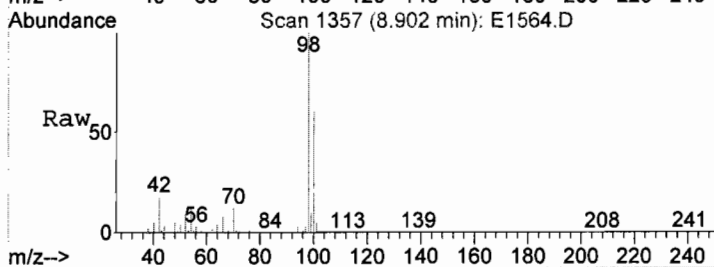
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. 0.00 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

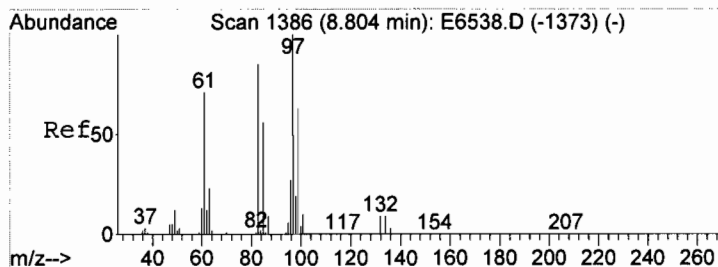
Tgt Ion: 114 Resp: 1027988
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 48.41 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

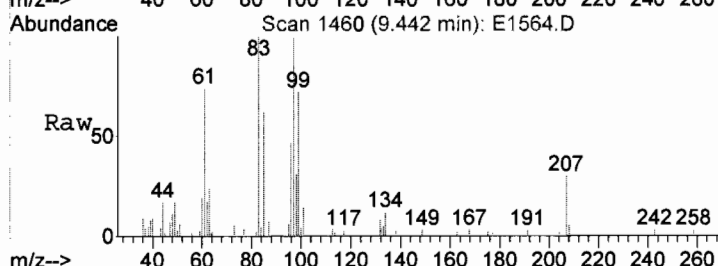
Tgt Ion: 98 Resp: 1272566
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.4 53.4 80.0





#44
1,1,2-Trichloroethane
Concen: 1.21 UG
RT: 9.44 min Scan# 1460
Delta R.T. -0.01 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

Tgt Ion:	83	Resp:	6694
Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
97	112.3	97.9	146.9
85	0.0	51.9	77.9#



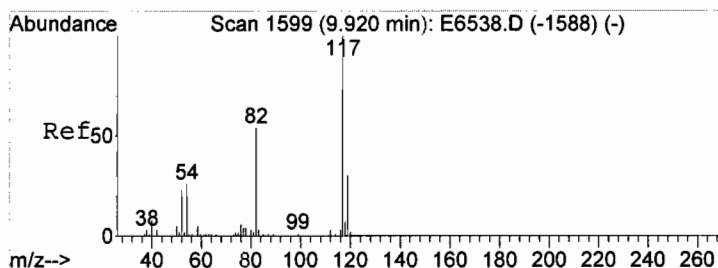
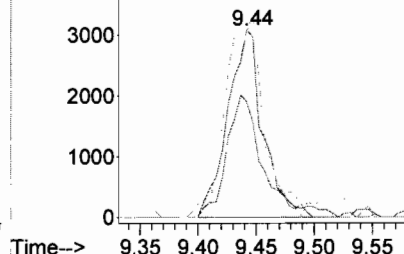
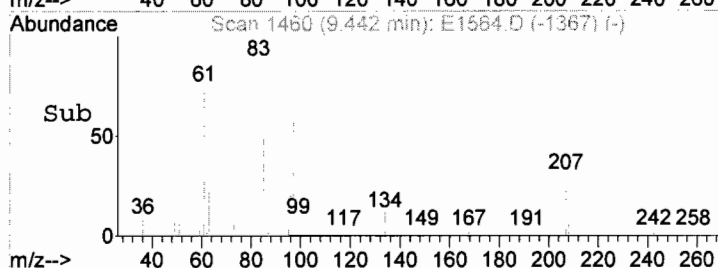
Abundance

Ion 83.10 (82.80 to 83.80): E15

Ion 83.10 (82.80 to 83.80): E15

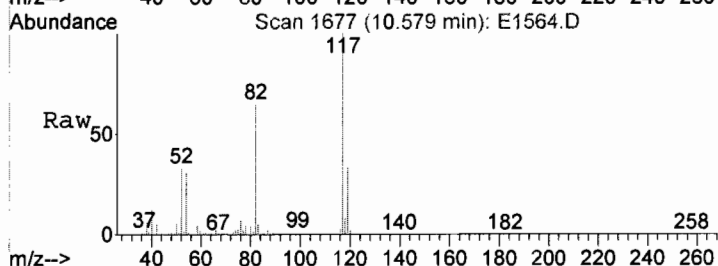
Ion 97.10 (96.80 to 97.80): E15

Ion 85.10 (84.80 to 85.80): E15



#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1564.D
Acq: 19 Sep 2017 7:06

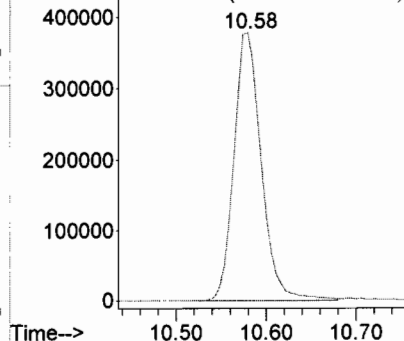
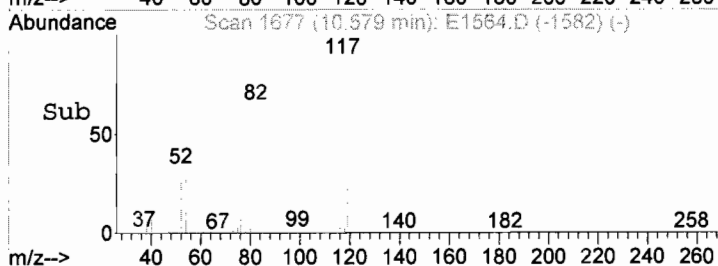
Tgt Ion:	117	Resp:	800916
Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0

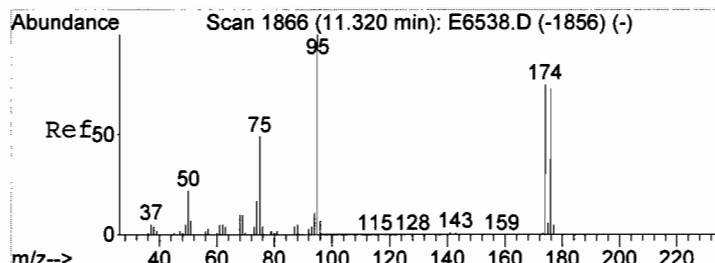


Abundance

Ion 117.00 (116.70 to 117.70): I

Ion 117.00 (116.70 to 117.70): I

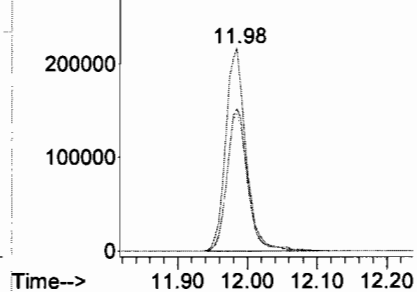




#59
 Bromofluorobenzene
 Concen: 46.54 UG
 RT: 11.98 min Scan# 1945
 Delta R.T. 0.01 min
 Lab File: E1564.D
 Acq: 19 Sep 2017 7:06

Tgt Ion:	95	Resp:	437768
Ion	Ratio	Lower	Upper
95	100		
95	100.0	80.0	120.0
174	68.5	62.9	94.3
176	70.5	60.5	90.7

Abundance Ion 95.05 (94.75 to 95.75): E15
 Ion 95.05 (94.75 to 95.75): E15
 Ion 174.00 (173.70 to 174.70): E15
 Ion 175.95 (175.65 to 176.65): E15



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1564.D
Acq On : 19 Sep 2017 7:06
Operator : BARBARA
Sample : MW-10, E17-07838-013, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 38 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.332	90	104	154	rVB	8391	92889	2.50%	0.578%
2	3.695	354	364	395	rVB4	26634	106463	2.86%	0.663%
3	5.132	624	638	660	rBV2	365160	1054129	28.35%	6.560%
4	6.401	866	880	901	rBV2	785516	1830801	49.25%	11.394%
5	6.731	928	943	978	rBV	490376	1205049	32.41%	7.499%
6	7.229	1024	1038	1073	rBV	1230973	2701376	72.66%	16.812%
7	8.902	1346	1357	1405	rBV	1798225	3717709	100.00%	23.137%
8	9.431	1449	1458	1484	rBV5	22479	57576	1.55%	0.358%
9	10.579	1664	1677	1706	rBV	1400379	2981895	80.21%	18.557%
10	11.985	1931	1945	1982	rBV	1125689	2320632	62.42%	14.442%

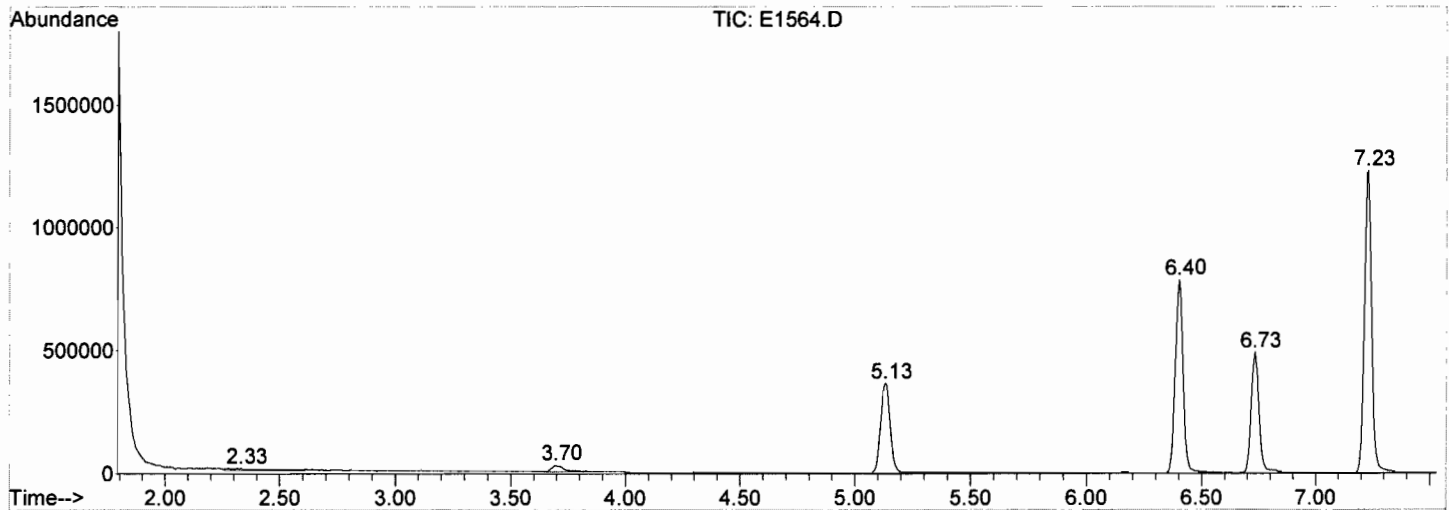
Sum of corrected areas: 16068519

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1564.D
 Acq On : 19 Sep 2017 7:06
 Operator : BARBARA
 Sample : MW-10, E17-07838-013, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
 ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1565.D
Acq On : 19 Sep 2017 7:36
Operator : BARBARA
Sample : MW-9, E17-07838-014, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 19 09:49:50 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	553327	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1026151	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	790568	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	418663	44.50	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	89.00%
41) Toluene-d8	8.90	98	1255120	47.83	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.66%
59) Bromofluorobenzene	11.98	95	437714	47.15	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	94.30%

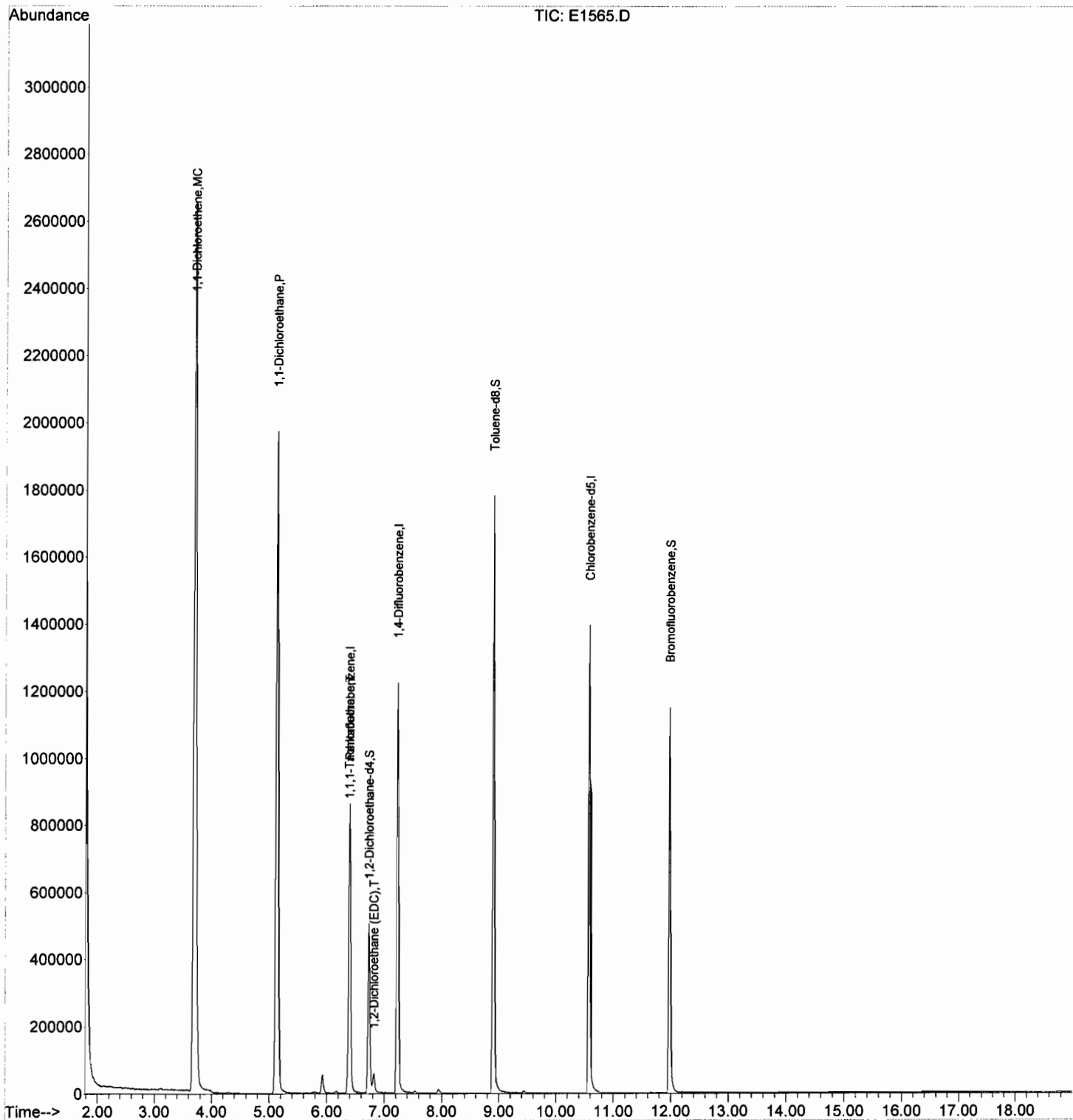
Target Compounds

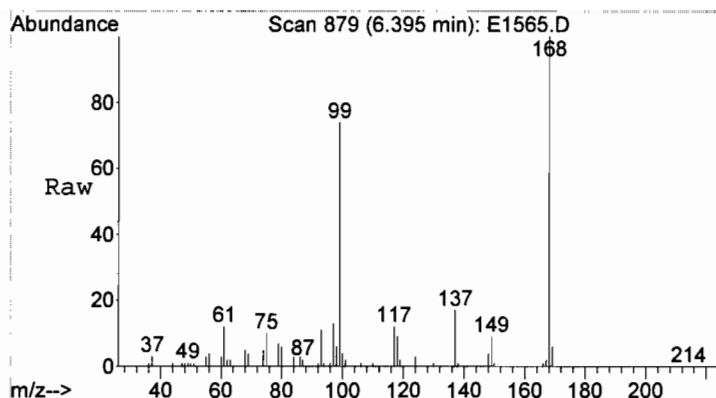
						Qvalue
9) 1,1-Dichloroethene	3.70	96	1407939	227.70	UG	# 100
18) 1,1-Dichloroethane	5.13	63	2688101	196.11	UG	# 99
26) 1,1,1-Trichloroethane	6.38	97	96834	11.18	UG	# 82
29) 1,2-Dichloroethane (EDC)	6.82	62	47922	3.97	UG	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1565.D
Acq On : 19 Sep 2017 7:36
Operator : BARBARA
Sample : MW-9, E17-07838-014, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 39 Sample Multiplier: 1

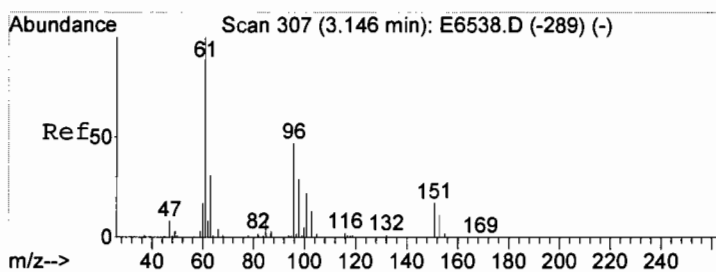
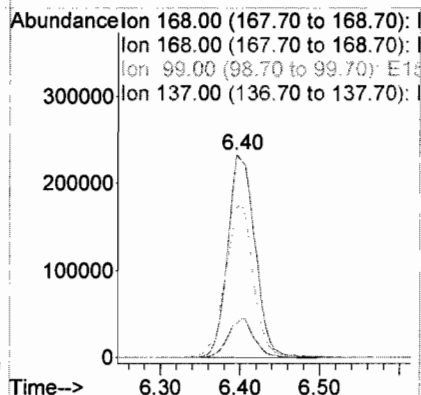
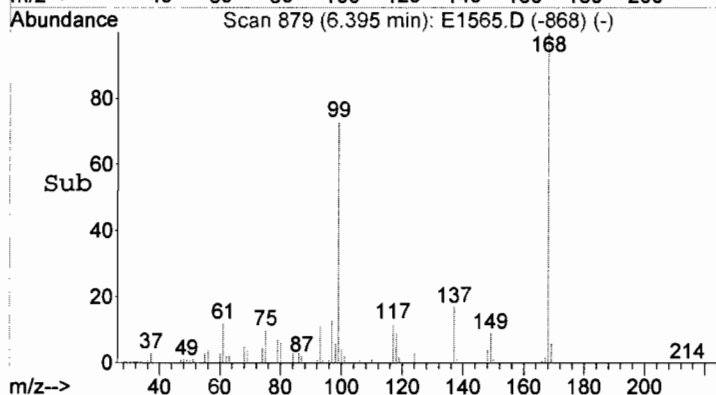
Quant Time: Sep 19 09:49:50 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





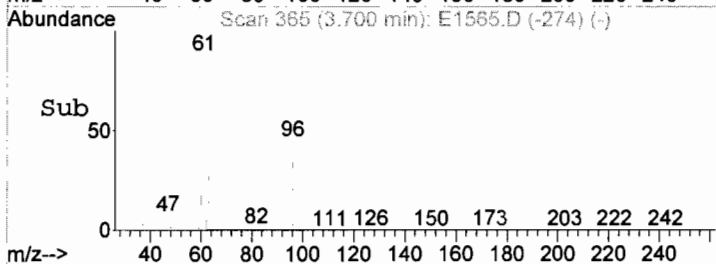
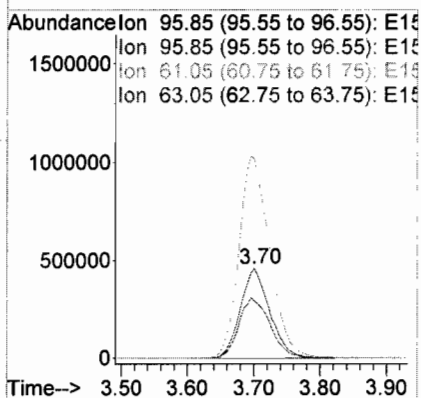
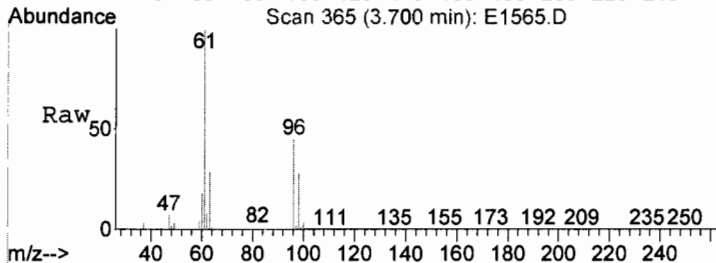
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 879
Delta R.T. -0.01 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

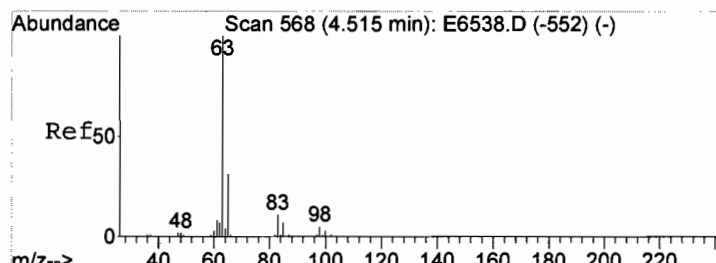
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	77.3	0.0	0.0#
137	18.4	0.0	0.0#



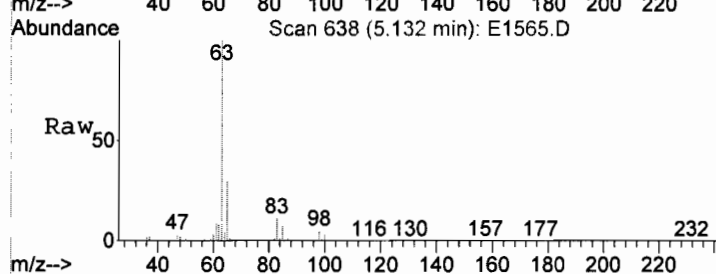
#9
1,1-Dichloroethene
Concen: 227.70 UG
RT: 3.70 min Scan# 365
Delta R.T. -0.02 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

Tgt Ion	Ratio	Lower	Upper
96	100		
96	100.0	80.0	120.0
61	0.0	0.0	0.0
63	0.0	0.0	0.0





#18
 1,1-Dichloroethane
 Concen: 196.11 UG
 RT: 5.13 min Scan# 638
 Delta R.T. -0.01 min
 Lab File: E1565.D
 Acq: 19 Sep 2017 7:36



Tgt Ion: 63 Resp: 2688101

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	30.5	25.6	38.4
83	11.2	11.3	16.9

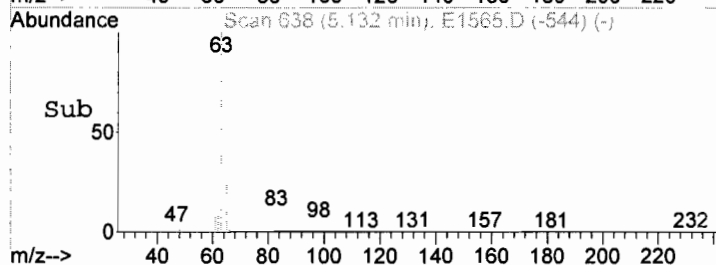
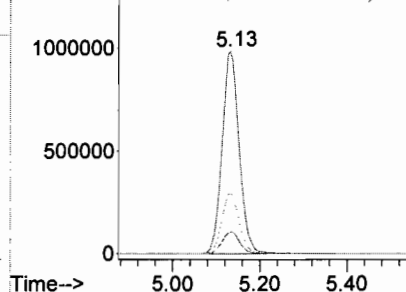
Abundance

Scan 638 (5.132 min): E1565.D (-544) (-)

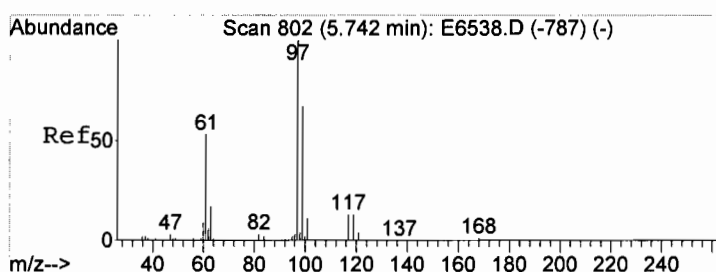
Ion 62.95 (62.65 to 63.65): E15

Ion 64.95 (64.65 to 65.65): E15

Ion 83.10 (82.80 to 83.80): E15



#26
 1,1,1-Trichloroethane
 Concen: 11.18 UG
 RT: 6.38 min Scan# 877
 Delta R.T. -0.00 min
 Lab File: E1565.D
 Acq: 19 Sep 2017 7:36



Tgt Ion: 97 Resp: 96834

Ion	Ratio	Lower	Upper
97	100		
97	100.0	80.0	120.0
99	0.0	0.0	0.0
61	0.0	31.7	47.5

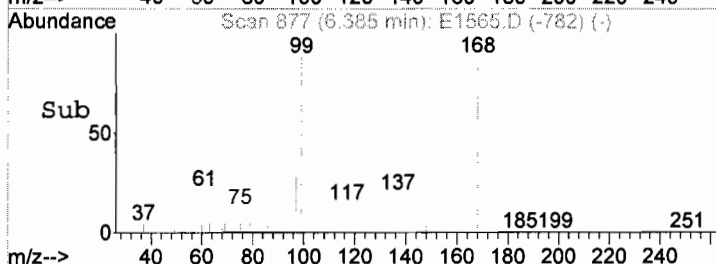
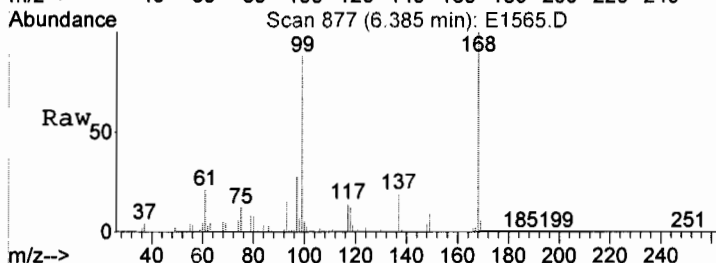
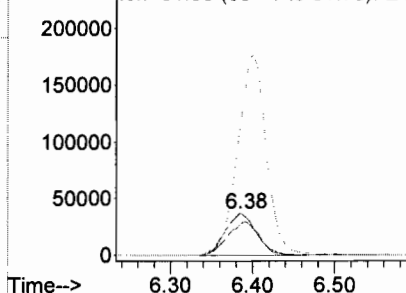
Abundance

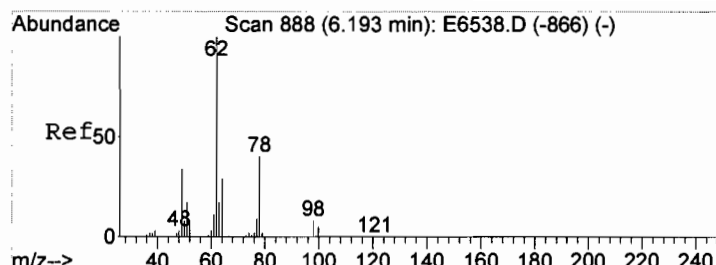
Scan 877 (6.385 min): E1565.D (-782) (-)

Ion 96.90 (96.60 to 97.60): E15

Ion 98.90 (98.60 to 99.60): E15

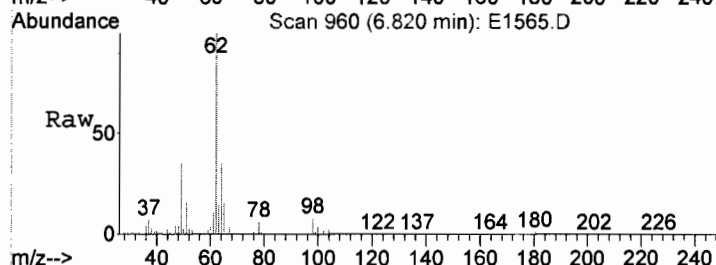
Ion 61.00 (60.70 to 61.70): E15





#29
1,2-Dichloroethane (EDC)
Concen: 3.97 UG
RT: 6.82 min Scan# 960
Delta R.T. 0.01 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

Tgt Ion:	62	Resp:	47922
Ion	Ratio	Lower	Upper
62	100		
62	100.0	90.0	110.0
64	31.4	29.1	35.5
49	0.0	0.0	0.0



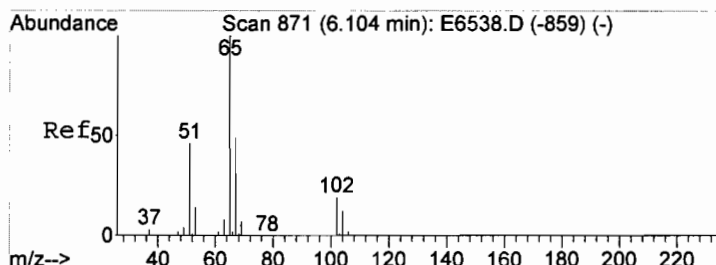
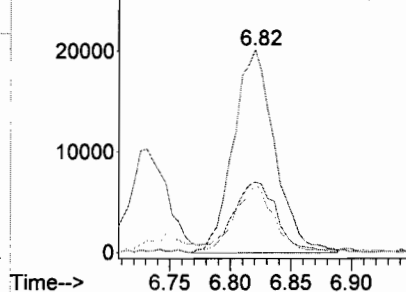
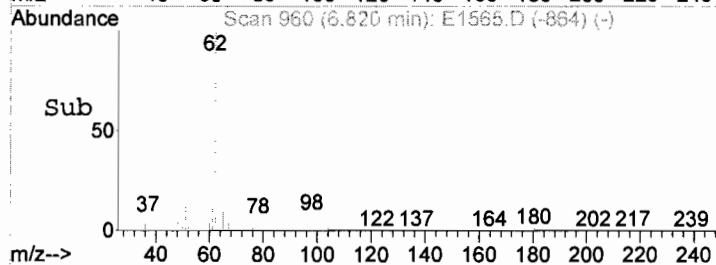
Abundance

Ion 61.95 (61.65 to 62.65): E15

Ion 61.95 (61.65 to 62.65): E15

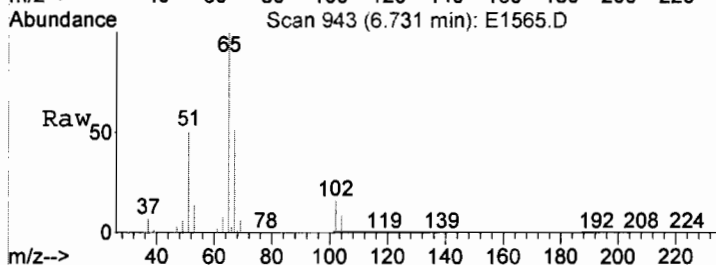
Ion 63.95 (63.65 to 64.65): E15

Ion 49.00 (48.70 to 49.70): E15



#30
1,2-Dichloroethane-d4
Concen: 44.50 UG
RT: 6.73 min Scan# 943
Delta R.T. -0.00 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

Tgt Ion:	65	Resp:	418663
Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	49.7	43.2	64.8

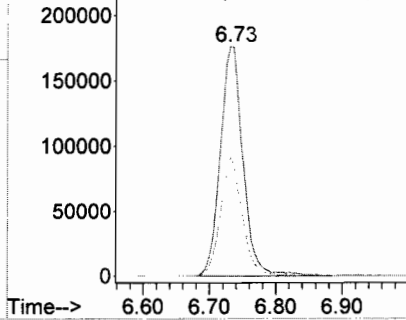
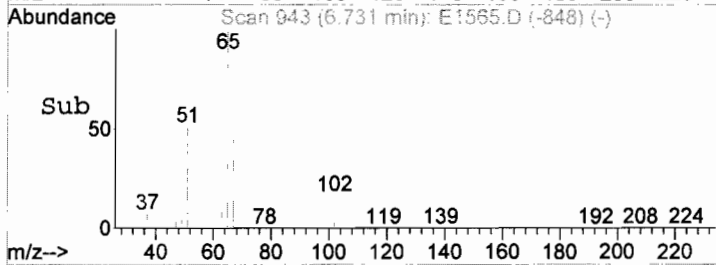


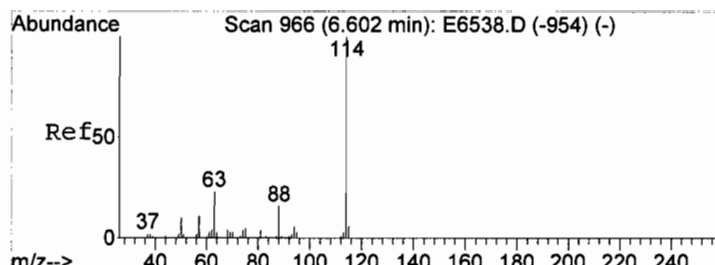
Abundance

Ion 65.15 (64.85 to 65.85): E15

Ion 65.15 (64.85 to 65.85): E15

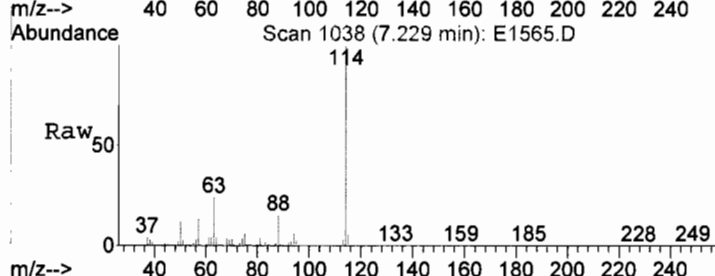
Ion 67.15 (66.85 to 67.85): E15



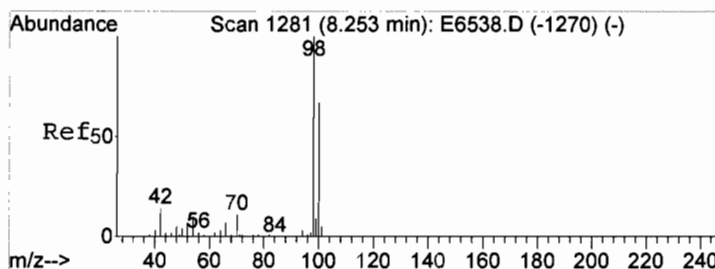
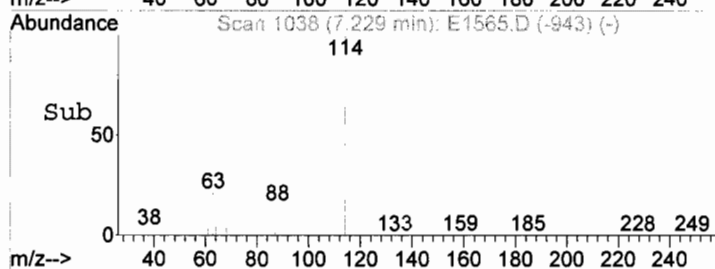
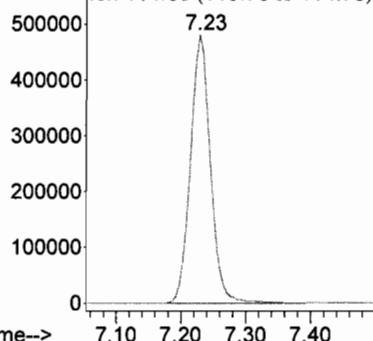


#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. -0.00 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

Tgt Ion: 114 Resp: 1026151
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0

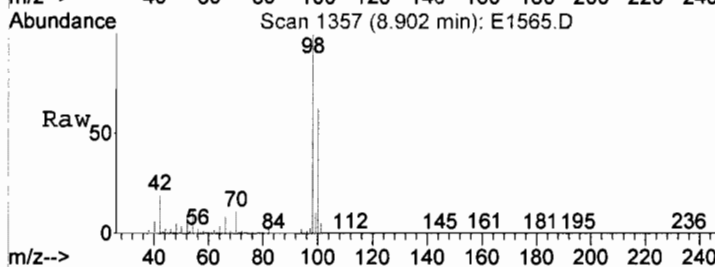


Abundance Ion 114.00 (113.70 to 114.70): I
Ion 114.00 (113.70 to 114.70): I

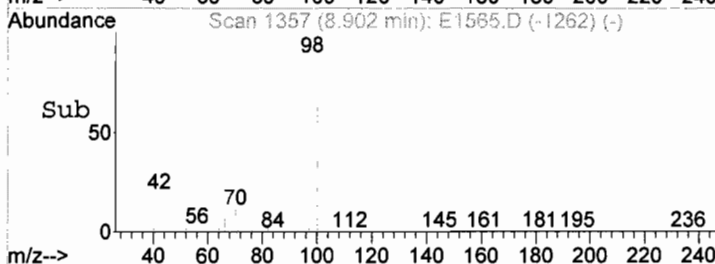
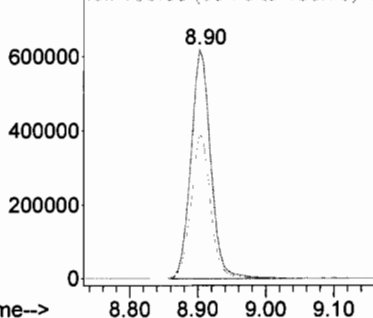


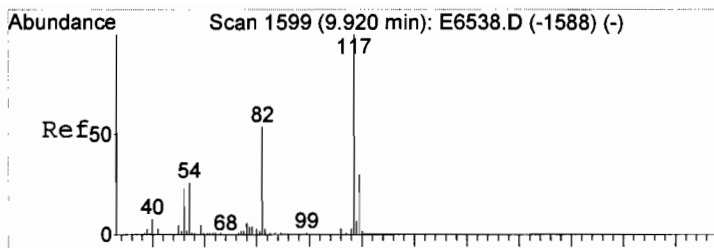
#41
Toluene-d8
Concen: 47.83 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

Tgt Ion: 98 Resp: 1255120
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.9 53.4 80.0



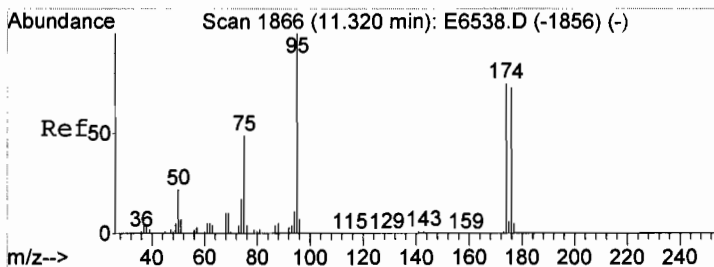
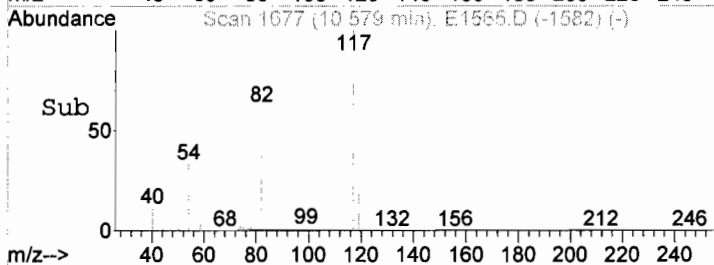
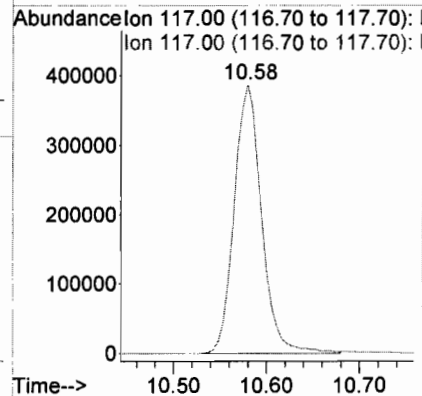
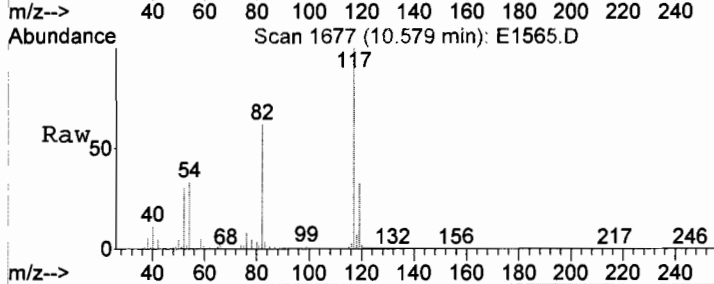
Abundance Ion 98.00 (97.70 to 98.70): E15
Ion 98.00 (97.70 to 98.70): E15
Ion 100.00 (99.70 to 100.70): E15





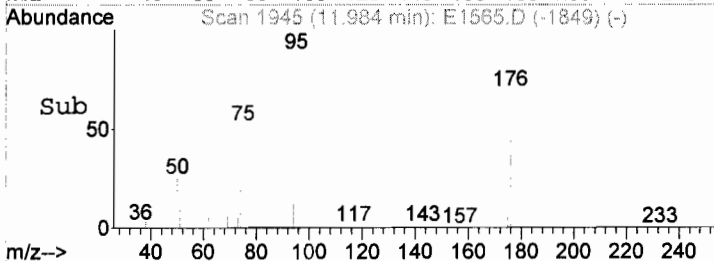
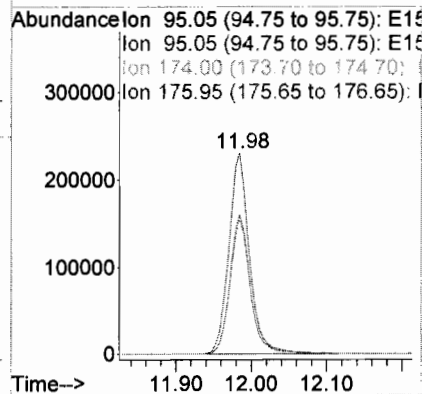
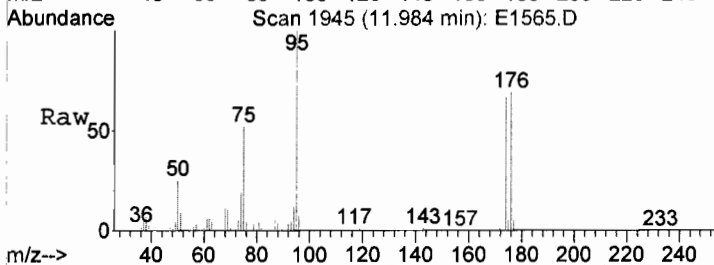
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

Tgt Ion: 117 Resp: 790568
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 47.15 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1565.D
Acq: 19 Sep 2017 7:36

Tgt Ion: 95 Resp: 437714
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 66.7 62.9 94.3
176 68.4 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1565.D
Acq On : 19 Sep 2017 7:36
Operator : BARBARA
Sample : MW-9, E17-07838-014, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 39 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.1
Stop Thrs : 0.1
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

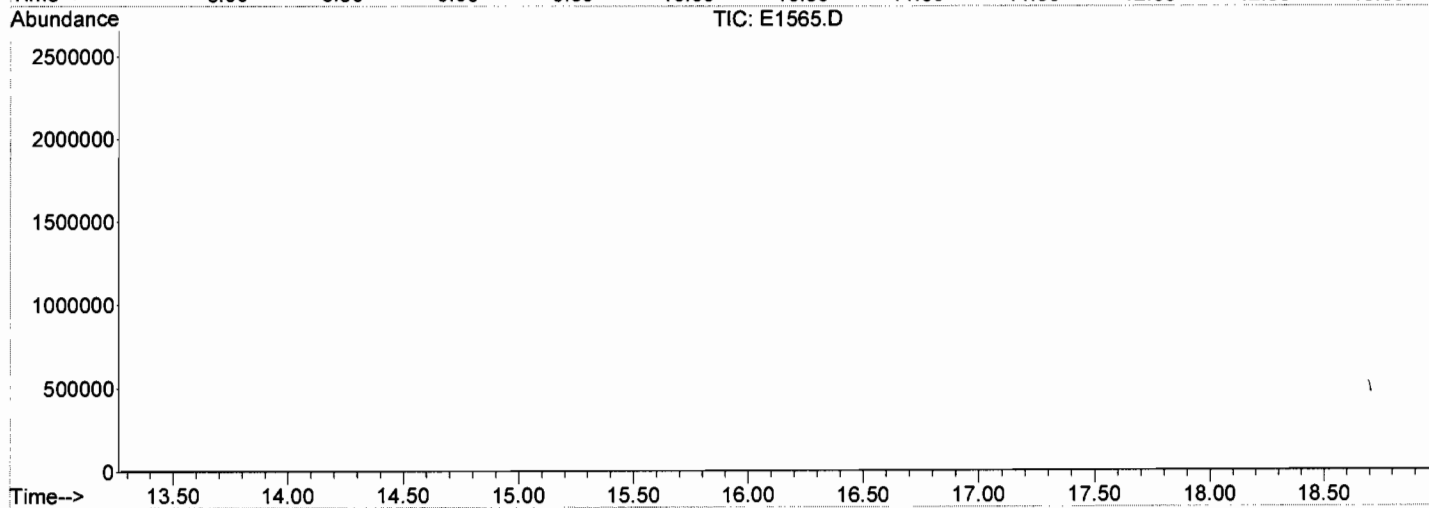
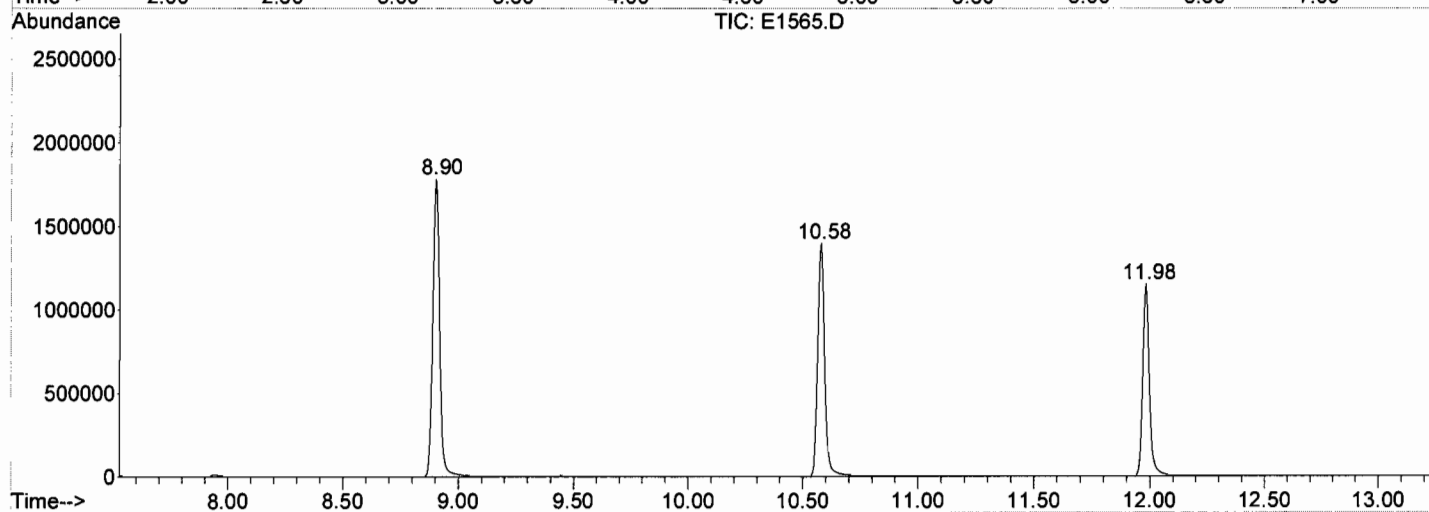
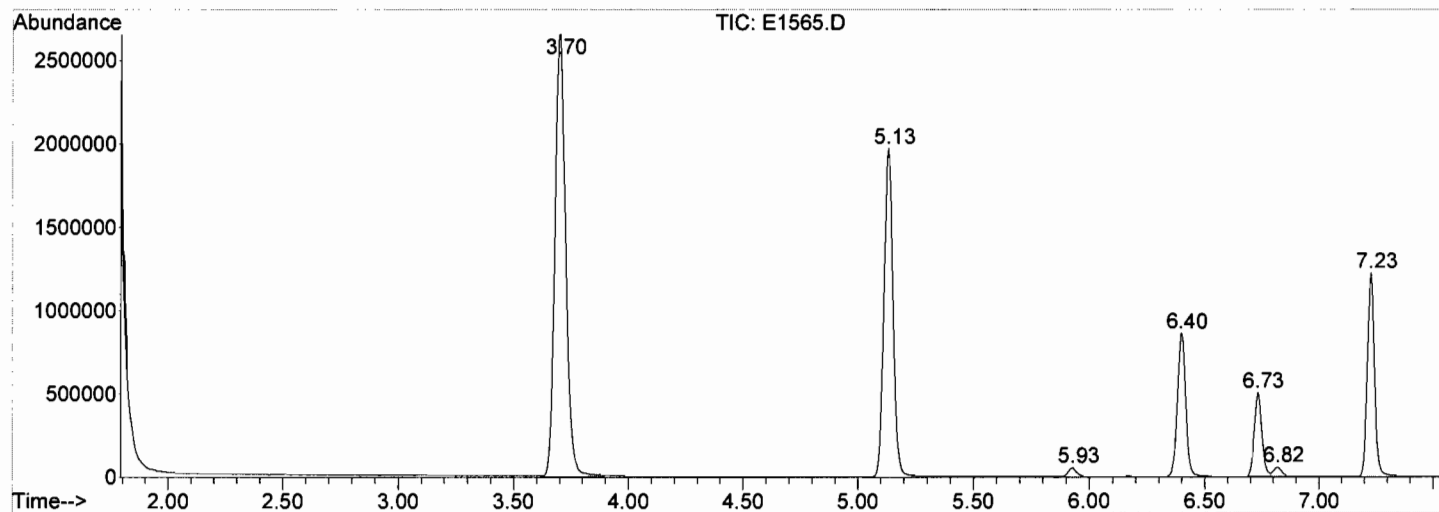
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.700	350	365	402	rBV	2647920	8578836	100.00%	29.377%
2	5.132	621	638	670	rBV	1972847	5405468	63.01%	18.510%
3	5.929	776	790	809	rBV2	54895	144076	1.68%	0.493%
4	6.395	865	879	903	rBV4	862237	2183045	25.45%	7.476%
5	6.731	933	943	954	rBV	503425	1165527	13.59%	3.991%
6	6.820	954	960	979	rVB2	56927	143286	1.67%	0.491%
7	7.229	1025	1038	1069	rBV	1223708	2673736	31.17%	9.156%
8	8.902	1346	1357	1389	rBV	1782931	3669552	42.77%	12.566%
9	10.579	1664	1677	1714	rBV	1397407	2954642	34.44%	10.118%
10	11.984	1935	1945	1976	rBV	1152414	2284347	26.63%	7.822%

Sum of corrected areas: 29202515

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1565.D
Acq On : 19 Sep 2017 7:36
Operator : BARBARA
Sample : MW-9, E17-07838-014, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1571.D
 Acq On : 19 Sep 2017 10:35
 Operator : BARBARA
 Sample : MW-9, E17-07838-014DL, A, 2.5mL, 100
 Misc : JMC/ARSYNCO, 09/13/17, 09/13/17, 1
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 19 18:04:38 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	598655	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1117073	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	862724	50.00	UG	0.00

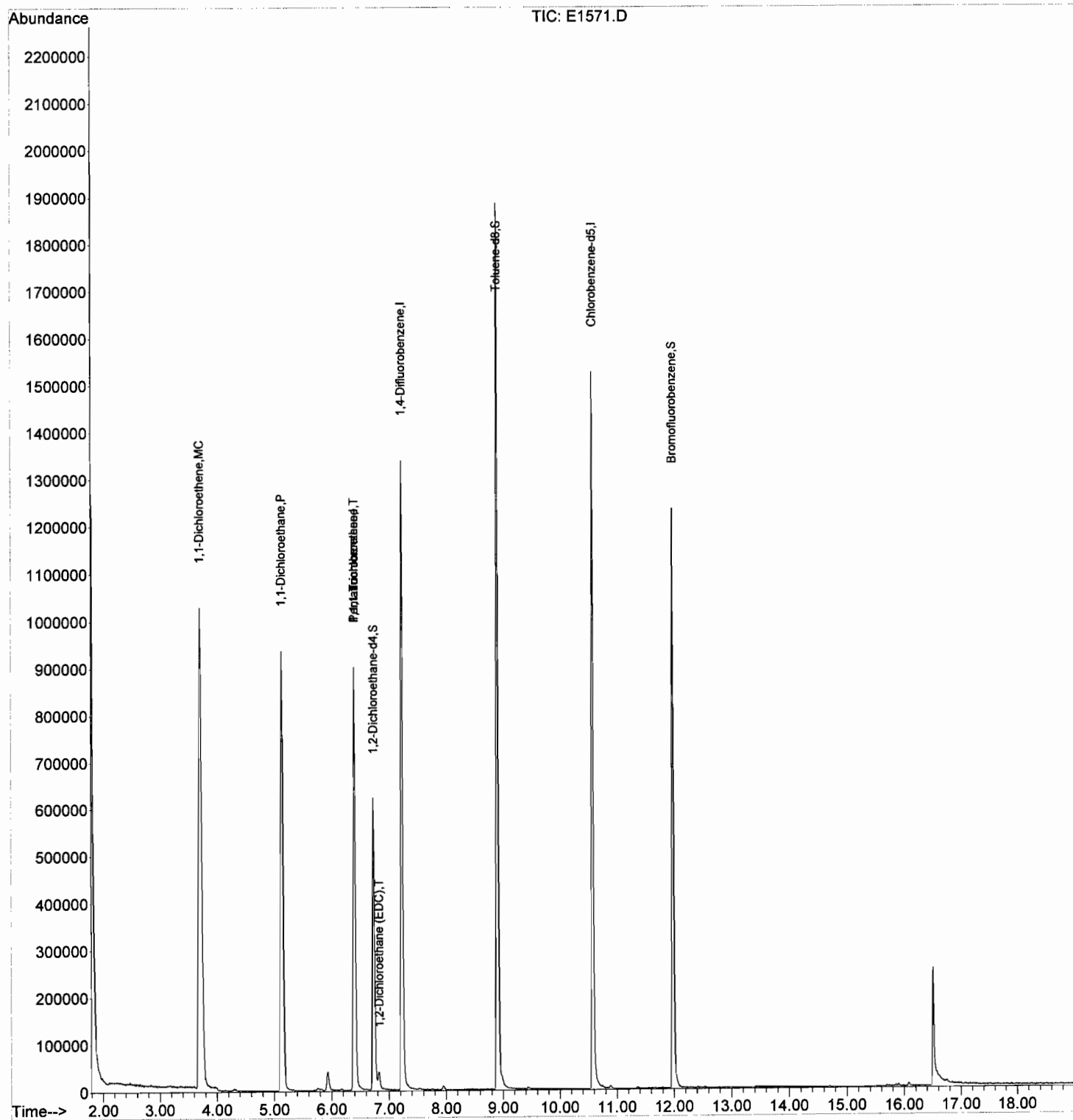
System Monitoring Compounds						
30) 1,2-Dichloroethane-d4	6.74	65	506033	49.71	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	99.42%
41) Toluene-d8	8.90	98	1353613	47.39	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.78%
59) Bromofluorobenzene	11.98	95	476118	47.00	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	94.00%

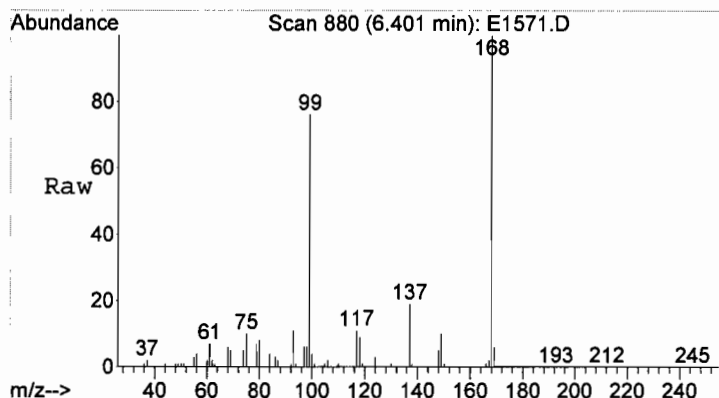
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1-Dichloroethene	3.71	96	606279	90.63	UG	# 100
18) 1,1-Dichloroethane	5.14	63	1243467	83.85	UG	# 99
26) 1,1,1-Trichloroethane	6.40	97	43289	4.62	UG	# 65
29) 1,2-Dichloroethane (EDC)	6.83	62	28478	2.18	UG	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1571.D
Acq On : 19 Sep 2017 10:35
Operator : BARBARA
Sample : MW-9, E17-07838-014DL, A, 2.5mL, 100
Misc : JMC/ARSYNCO, 09/13/17, 09/13/17, 1
ALS Vial : 45 Sample Multiplier: 1

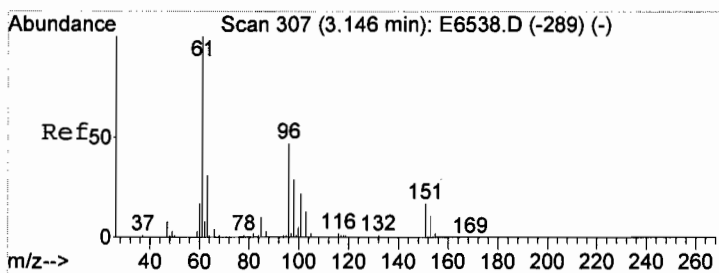
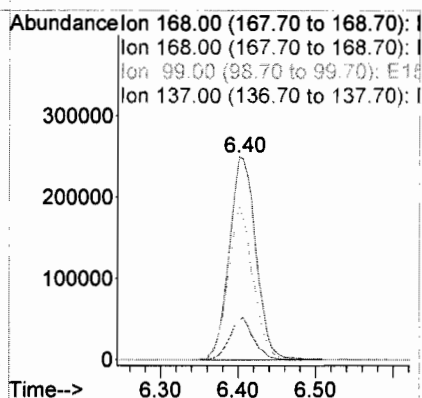
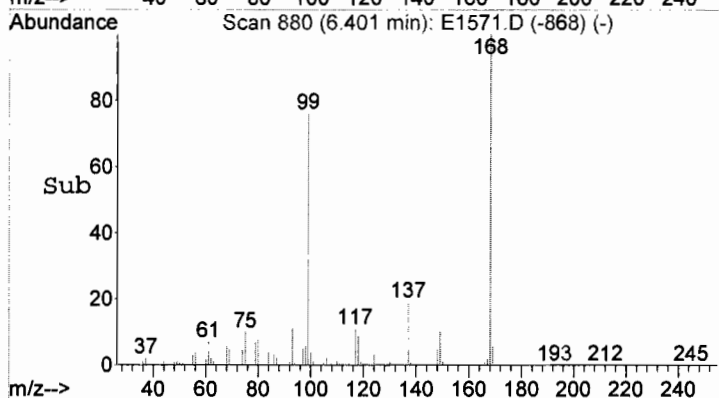
Quant Time: Sep 19 18:04:38 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





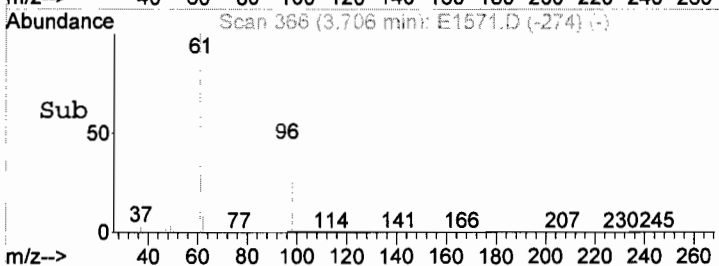
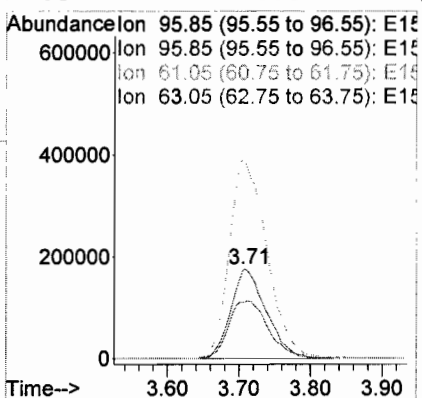
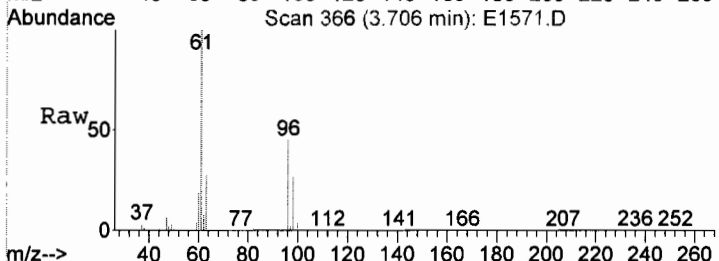
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

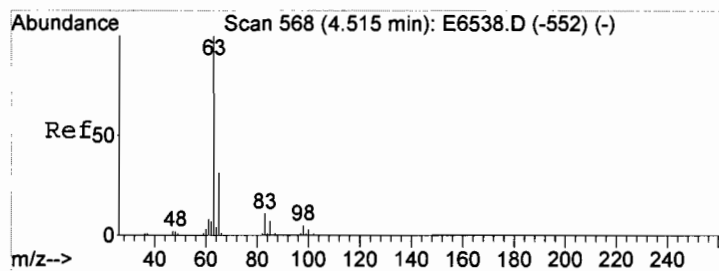
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	72.1	0.0	0.0#
137	0.0	0.0	0.0



#9
1,1-Dichloroethene
Concen: 90.63 UG
RT: 3.71 min Scan# 366
Delta R.T. -0.02 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

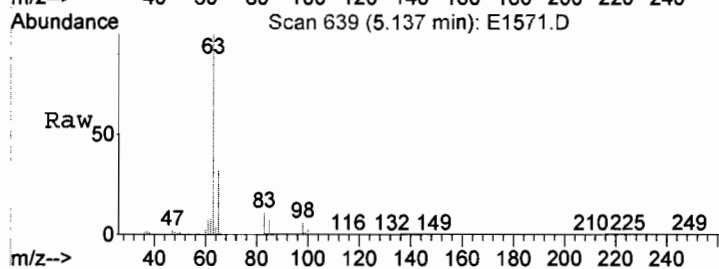
Tgt Ion	Ratio	Lower	Upper
96	100		
96	100.0	80.0	120.0
61	0.0	0.0	0.0
63	71.0	0.0	0.0#



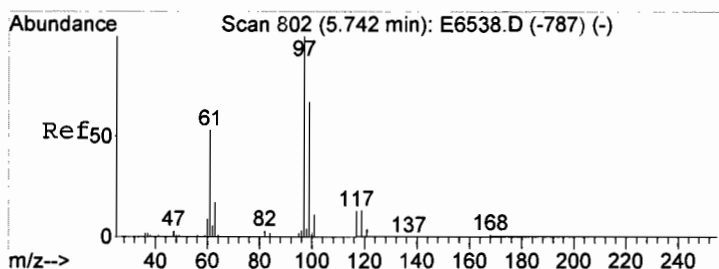
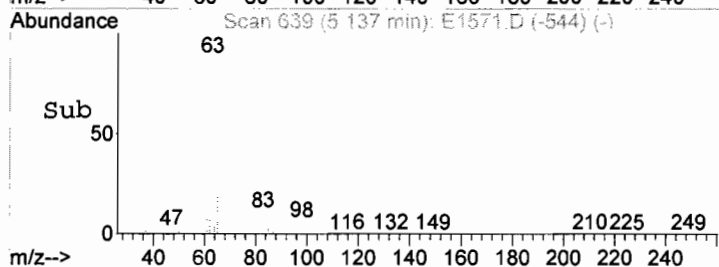
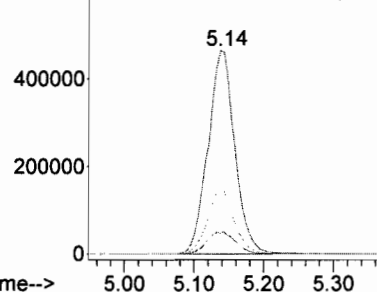


#18
1,1-Dichloroethane
Concen: 83.85 UG
RT: 5.14 min Scan# 639
Delta R.T. 0.00 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

Tgt Ion: 63 Resp: 1243467
Ion Ratio Lower Upper
63 100
63 100.0 80.0 120.0
65 31.4 25.6 38.4
83 11.8 11.3 16.9

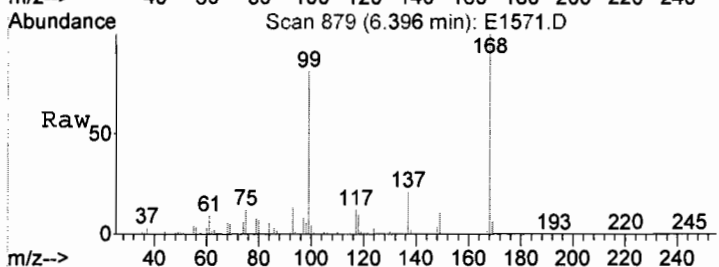


Abundance Ion 62.95 (62.65 to 63.65): E15
Ion 62.95 (62.65 to 63.65): E15
Ion 64.95 (64.65 to 65.65): E15
Ion 83.10 (82.80 to 83.80): E15

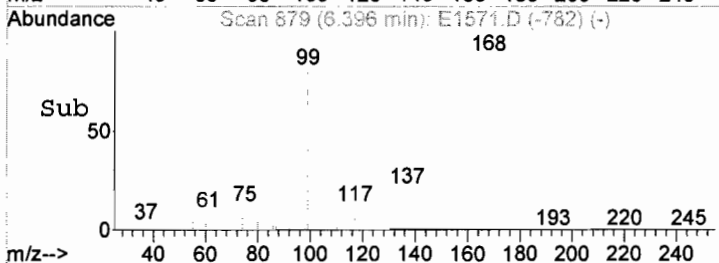
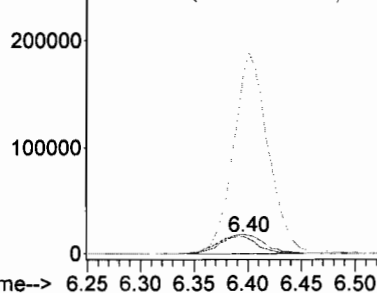


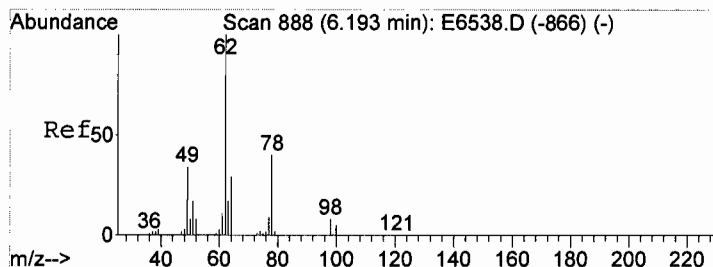
#26
1,1,1-Trichloroethane
Concen: 4.62 UG
RT: 6.40 min Scan# 879
Delta R.T. 0.01 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

Tgt Ion: 97 Resp: 43289
Ion Ratio Lower Upper
97 100
97 100.0 80.0 120.0
99 0.0 0.0 0.0
61 115.0 31.7 47.5#



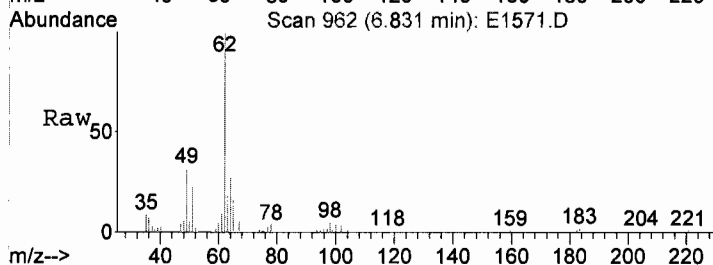
Abundance Ion 96.90 (96.60 to 97.60): E15
Ion 96.90 (96.60 to 97.60): E15
Ion 98.90 (98.60 to 99.60): E15
Ion 61.00 (60.70 to 61.70): E15





#29
1,2-Dichloroethane (EDC)
Concen: 2.18 UG
RT: 6.83 min Scan# 962
Delta R.T. 0.02 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

Tgt Ion	Ratio	Lower	Upper
62	100		
62	100.0	90.0	110.0
64	32.9	29.1	35.5
49	40.7	0.0	0.0#



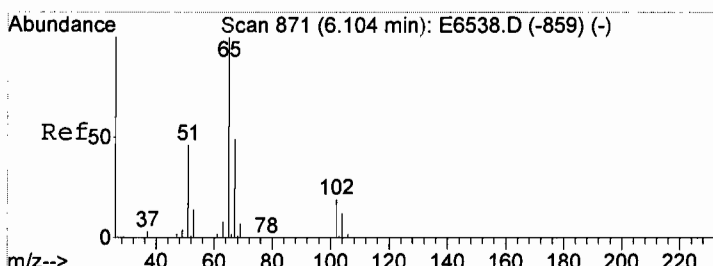
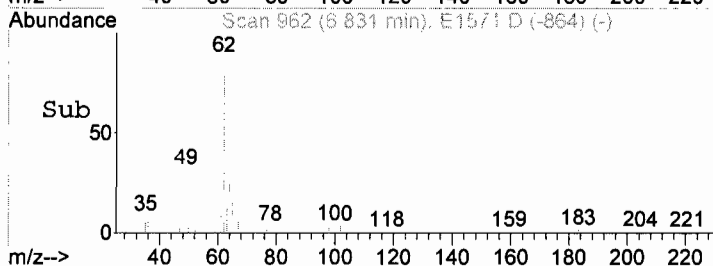
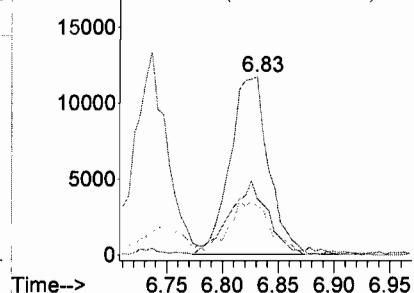
Abundance

Ion 61.95 (61.65 to 62.65): E1571.D

Ion 61.95 (61.65 to 62.65): E1571.D

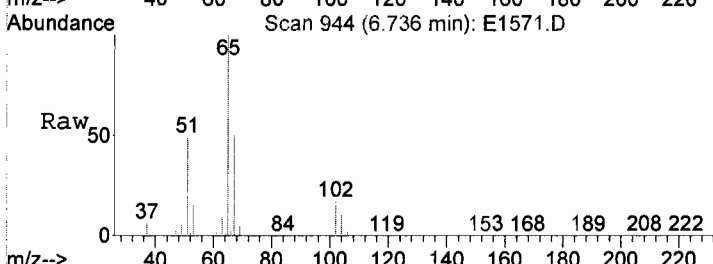
Ion 63.95 (63.65 to 64.65): E1571.D

Ion 49.00 (48.70 to 49.70): E1571.D



#30
1,2-Dichloroethane-d4
Concen: 49.71 UG
RT: 6.74 min Scan# 944
Delta R.T. 0.01 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.2	43.2	64.8

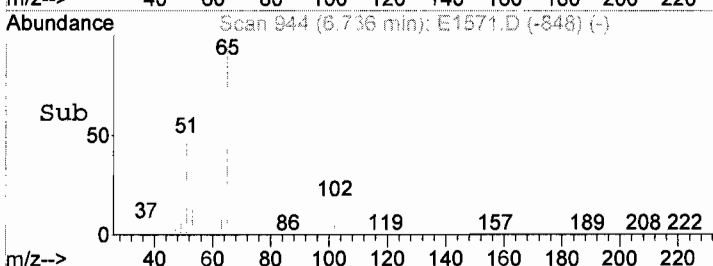
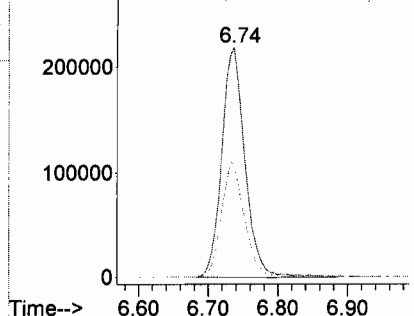


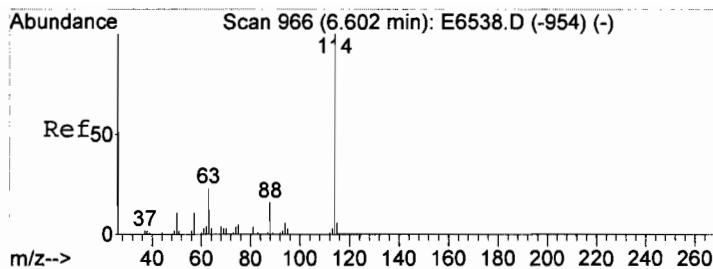
Abundance

Ion 65.15 (64.85 to 65.85): E1571.D

Ion 65.15 (64.85 to 65.85): E1571.D

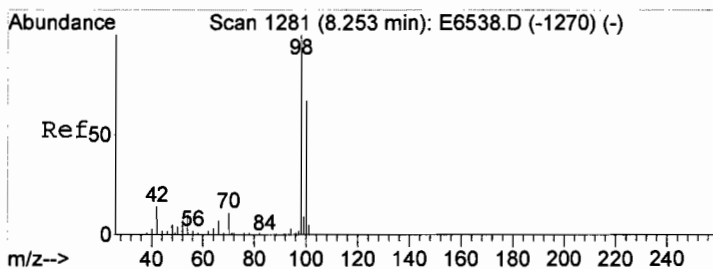
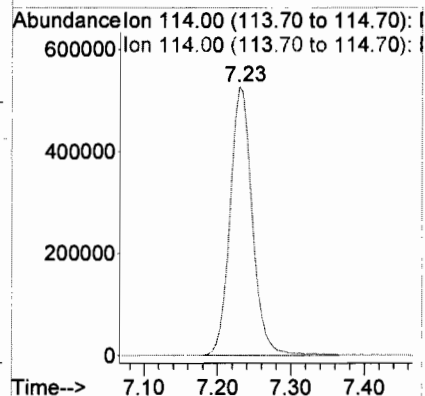
Ion 67.15 (66.85 to 67.85): E1571.D





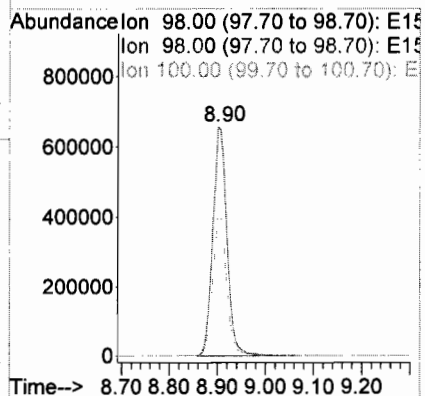
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. 0.00 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

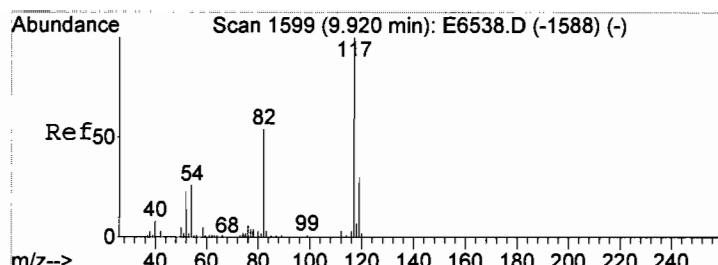
Tgt Ion: 114 Resp: 1117073
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 47.39 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

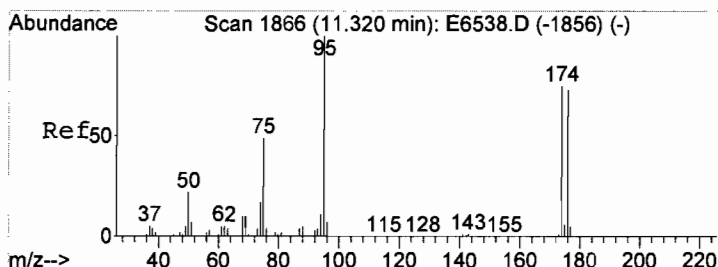
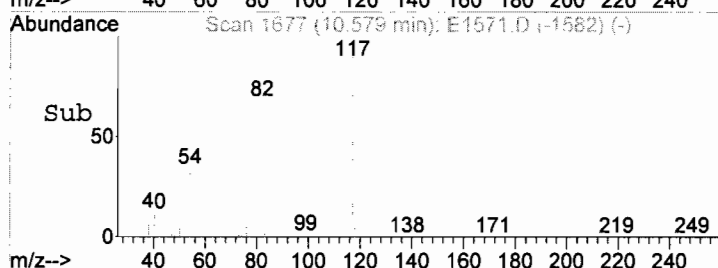
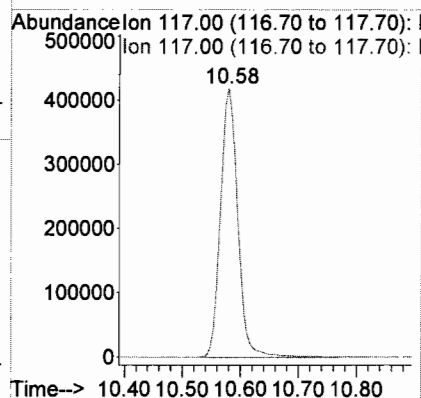
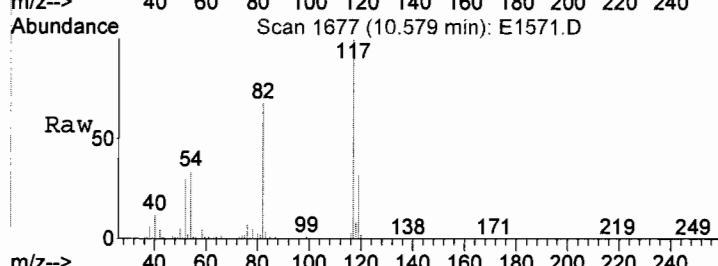
Tgt Ion: 98 Resp: 1353613
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.1 53.4 80.0





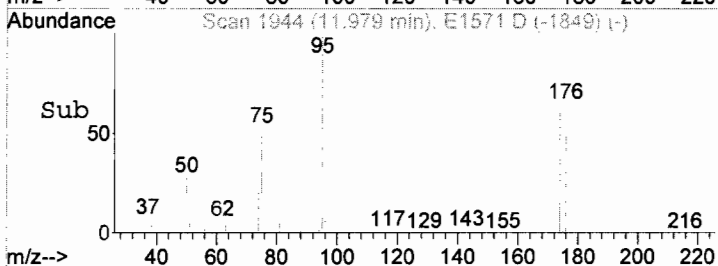
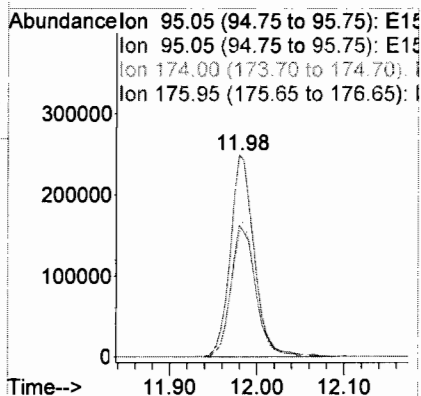
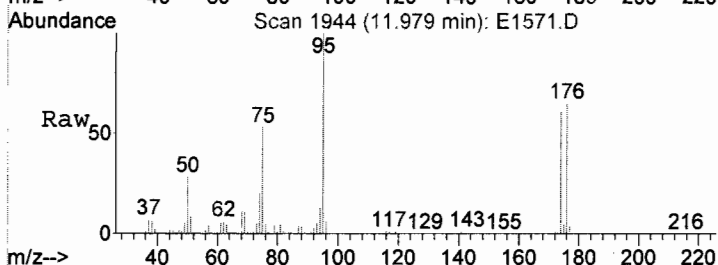
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

Tgt Ion: 117 Resp: 862724
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 47.00 UG
RT: 11.98 min Scan# 1944
Delta R.T. 0.00 min
Lab File: E1571.D
Acq: 19 Sep 2017 10:35

Tgt Ion: 95 Resp: 476118
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 67.7 62.9 94.3
176 68.1 60.5 90.7



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1566.D
Acq On : 19 Sep 2017 8:06
Operator : BARBARA
Sample : FIELD BLANK_, E17-07838-015, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 19 09:49:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	533811	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1025080	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	798922	50.00	UG	0.00

System Monitoring Compounds

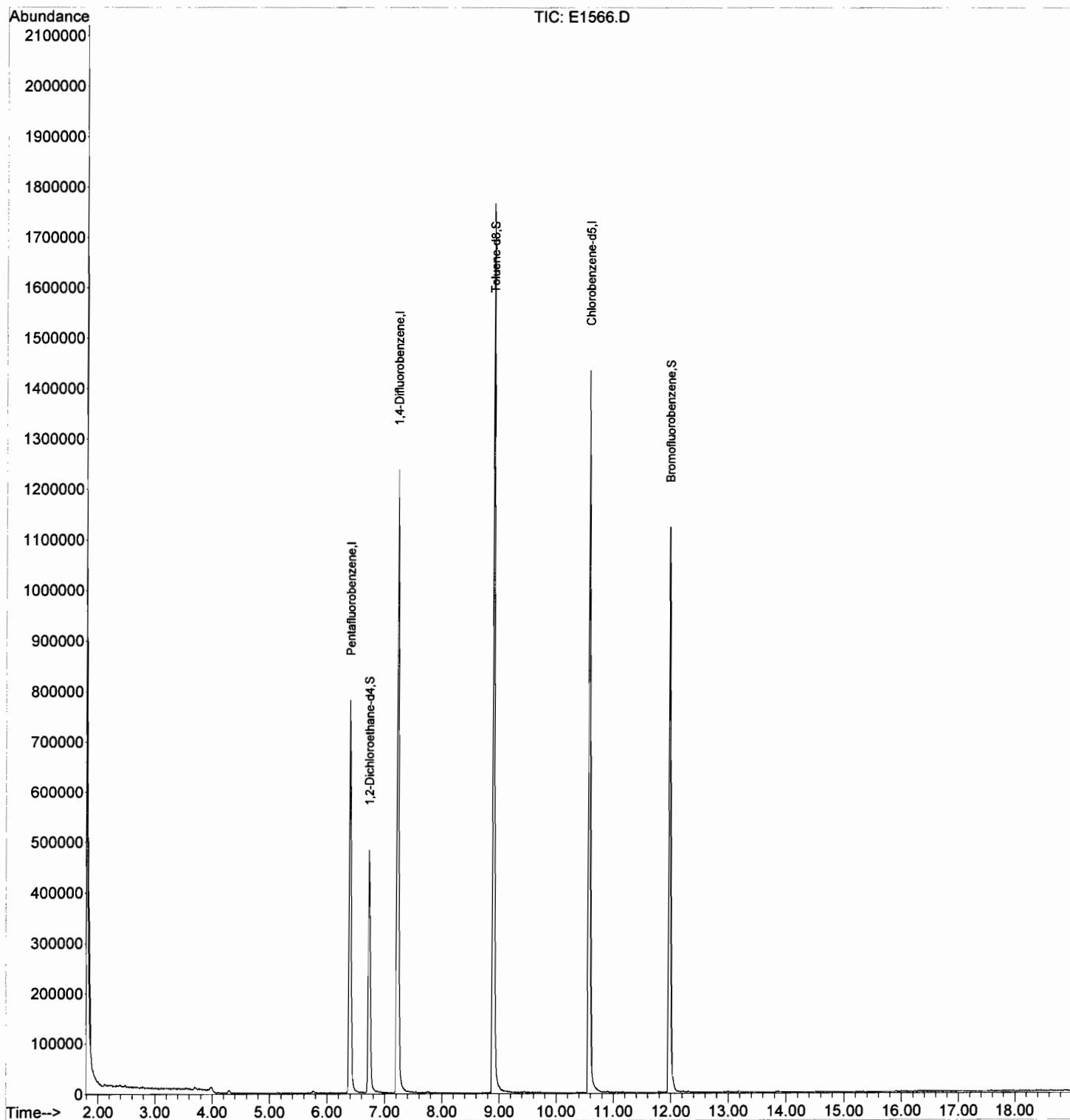
30) 1,2-Dichloroethane-d4	6.73	65	411492	45.33	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	90.66%
41) Toluene-d8	8.90	98	1252759	47.79	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.58%
59) Bromofluorobenzene	11.98	95	437185	46.60	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.20%

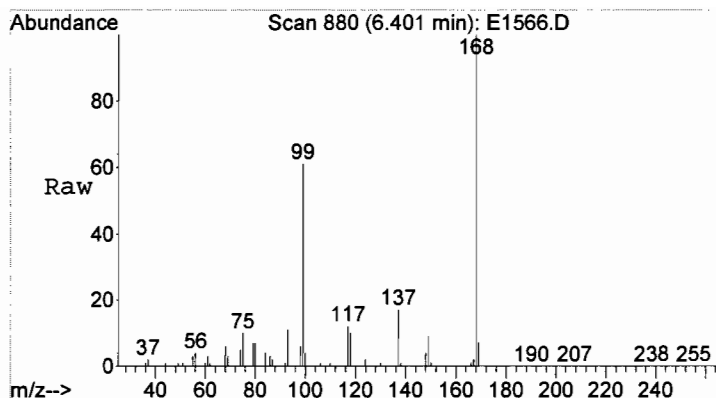
Target Compounds	Qvalue
------------------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1566.D
Acq On : 19 Sep 2017 8:06
Operator : BARBARA
Sample : FIELD BLANK, E17-07838-015, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 40 Sample Multiplier: 1

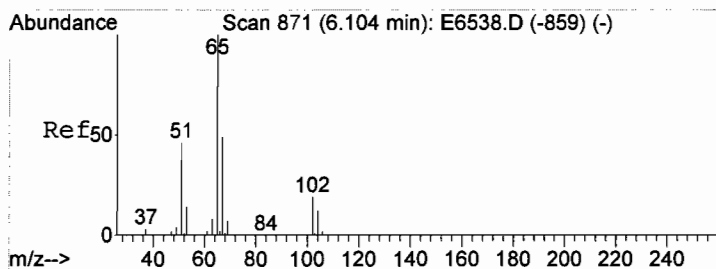
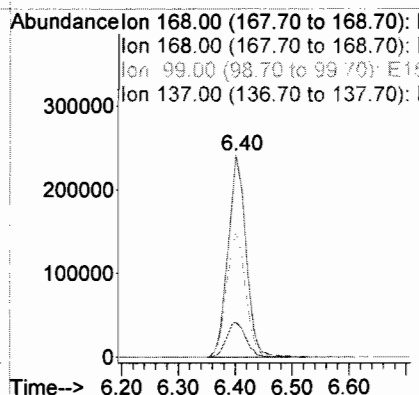
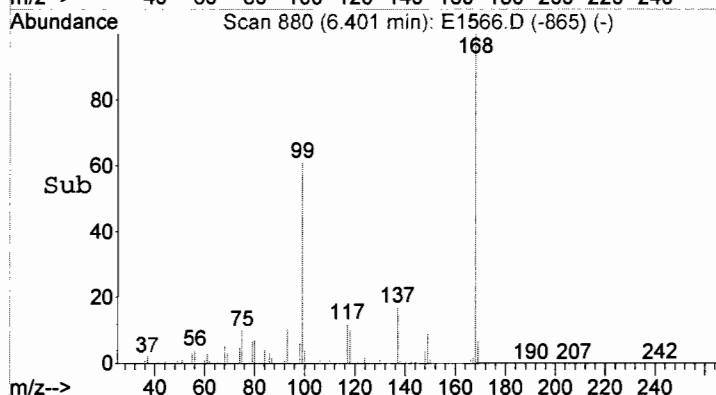
Quant Time: Sep 19 09:49:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





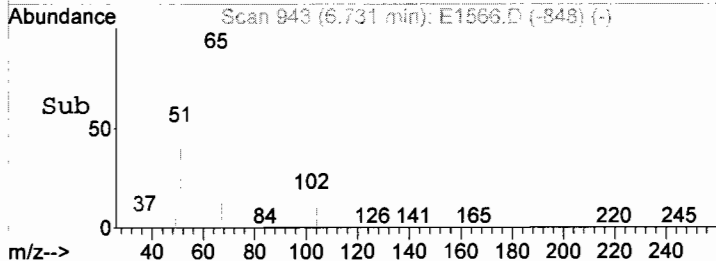
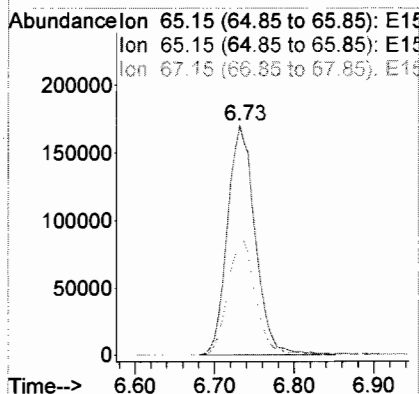
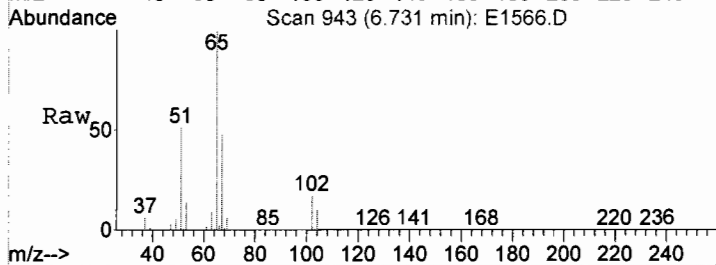
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1566.D
Acq: 19 Sep 2017 8:06

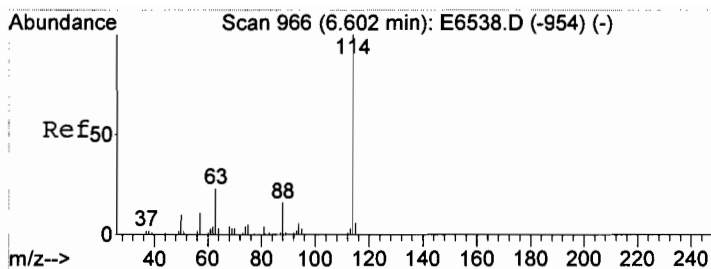
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#30
1,2-Dichloroethane-d4
Concen: 45.33 UG
RT: 6.73 min Scan# 943
Delta R.T. 0.00 min
Lab File: E1566.D
Acq: 19 Sep 2017 8:06

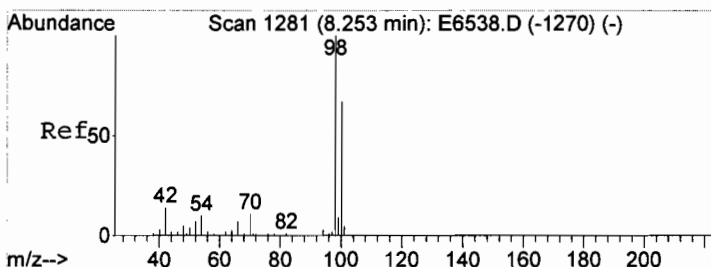
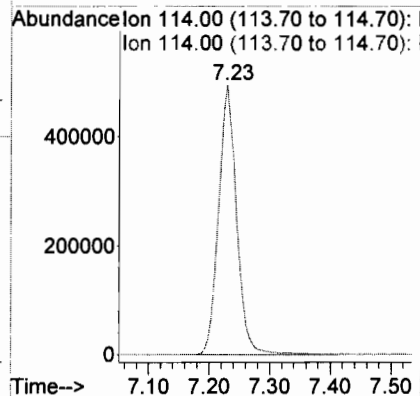
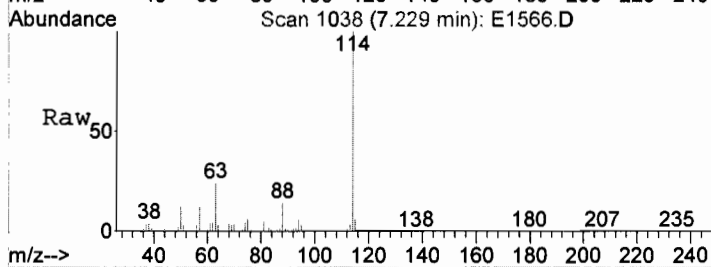
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.1	43.2	64.8





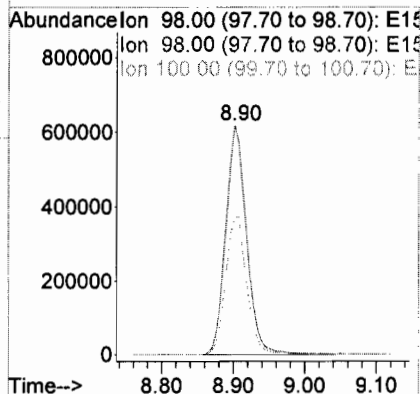
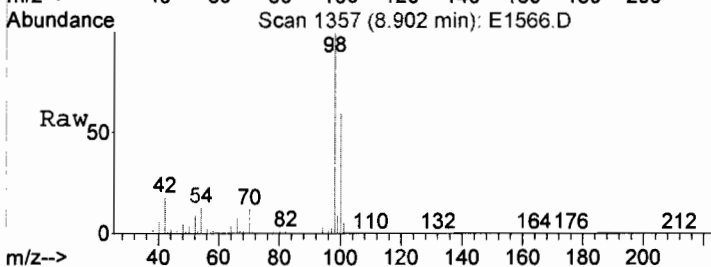
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. 0.00 min
Lab File: E1566.D
Acq: 19 Sep 2017 8:06

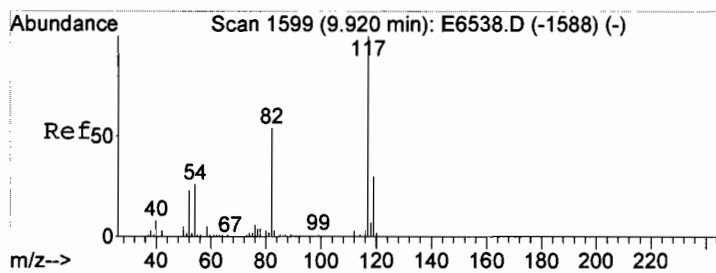
Tgt Ion: 114 Resp: 1025080
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 47.79 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1566.D
Acq: 19 Sep 2017 8:06

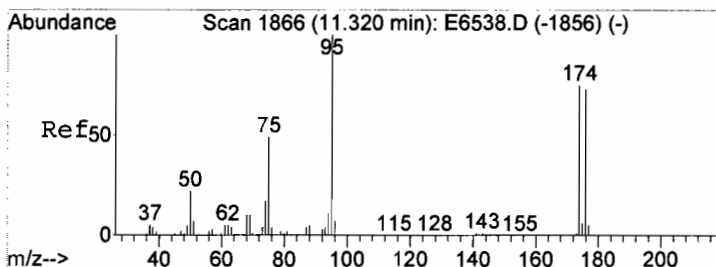
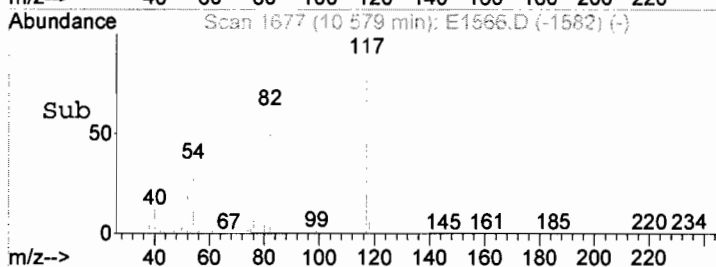
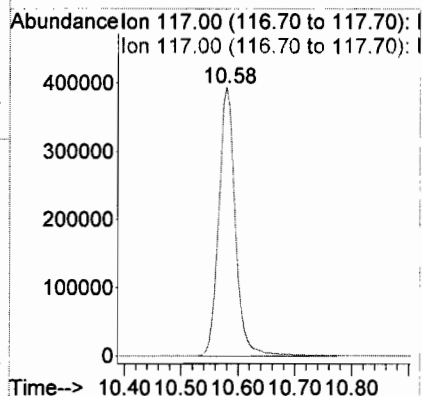
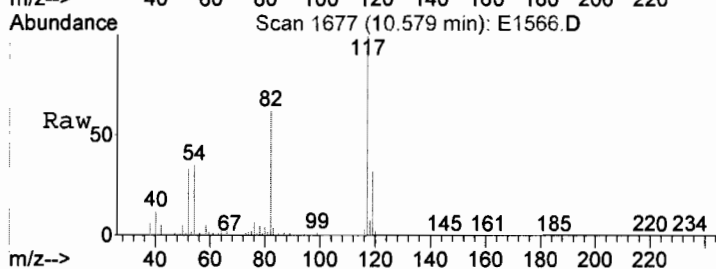
Tgt Ion: 98 Resp: 1252759
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.6 53.4 80.0





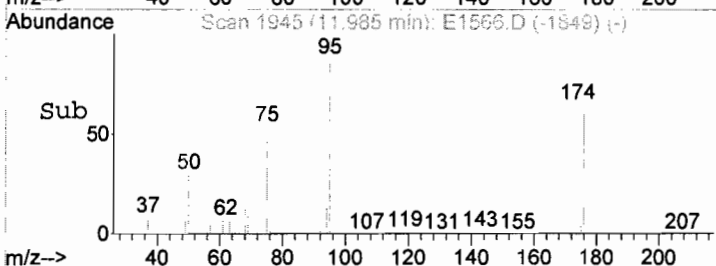
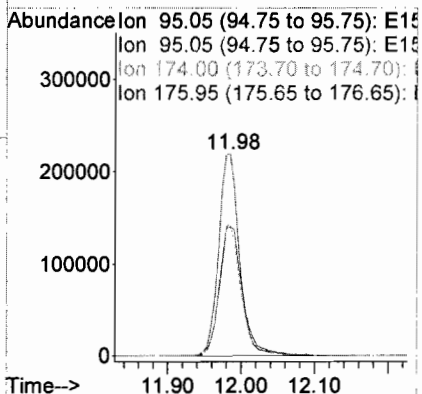
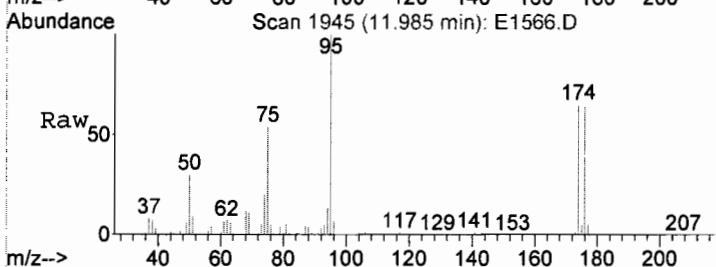
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1566.D
Acq: 19 Sep 2017 8:06

Tgt Ion: 117 Resp: 798922
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 46.60 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1566.D
Acq: 19 Sep 2017 8:06

Tgt Ion: 95 Resp: 437185
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 67.2 62.9 94.3
176 68.3 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1566.D
Acq On : 19 Sep 2017 8:06
Operator : BARBARA
Sample : FIELD BLANK, E17-07838-015, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 40 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.1
Stop Thrs : 0.1
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.978	411	418	435	rVB4	11706	47192	1.29%	0.324%
2	6.401	863	880	913	rBV	781492	1794688	49.17%	12.328%
3	6.731	930	943	967	rBV2	482206	1181914	32.38%	8.119%
4	7.229	1024	1038	1067	rBV	1237087	2656287	72.78%	18.246%
5	8.902	1340	1357	1384	rBV	1765766	3649910	100.00%	25.071%
6	10.579	1665	1677	1718	rBV	1435759	2958164	81.05%	20.320%
7	11.979	1934	1944	1970	rBV	1124009	2269891	62.19%	15.592%

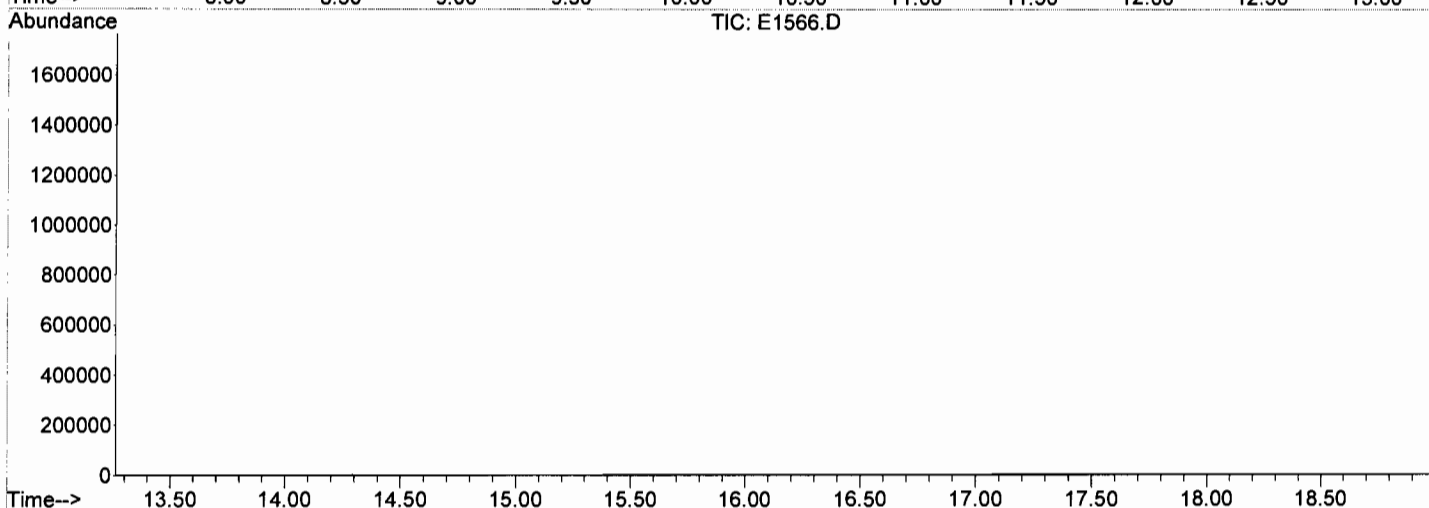
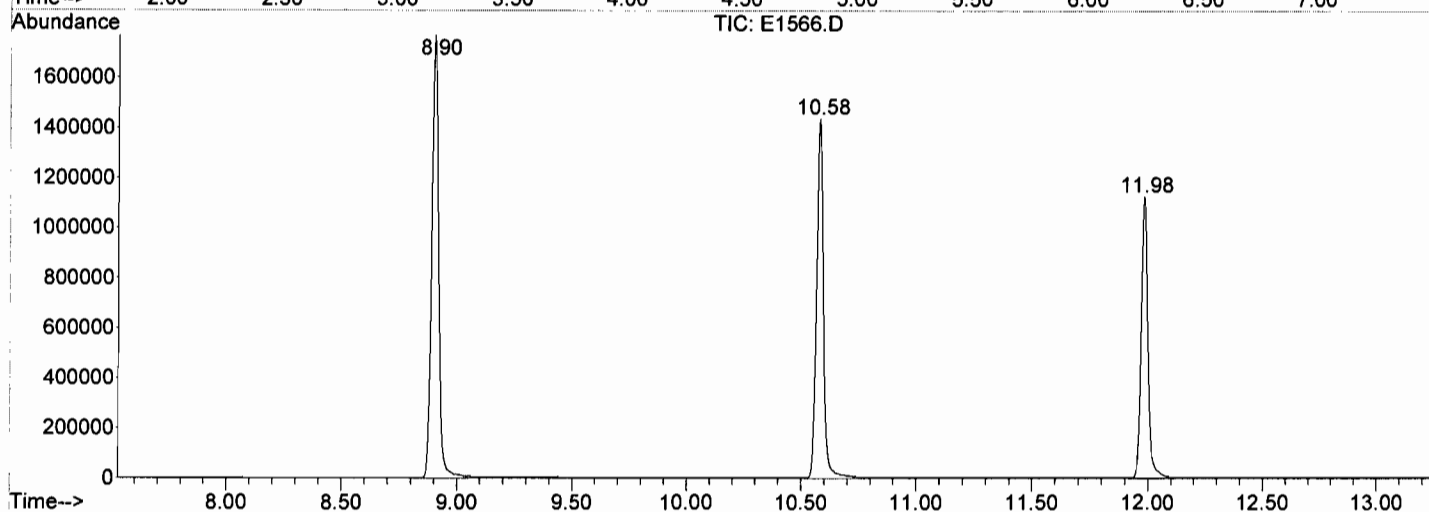
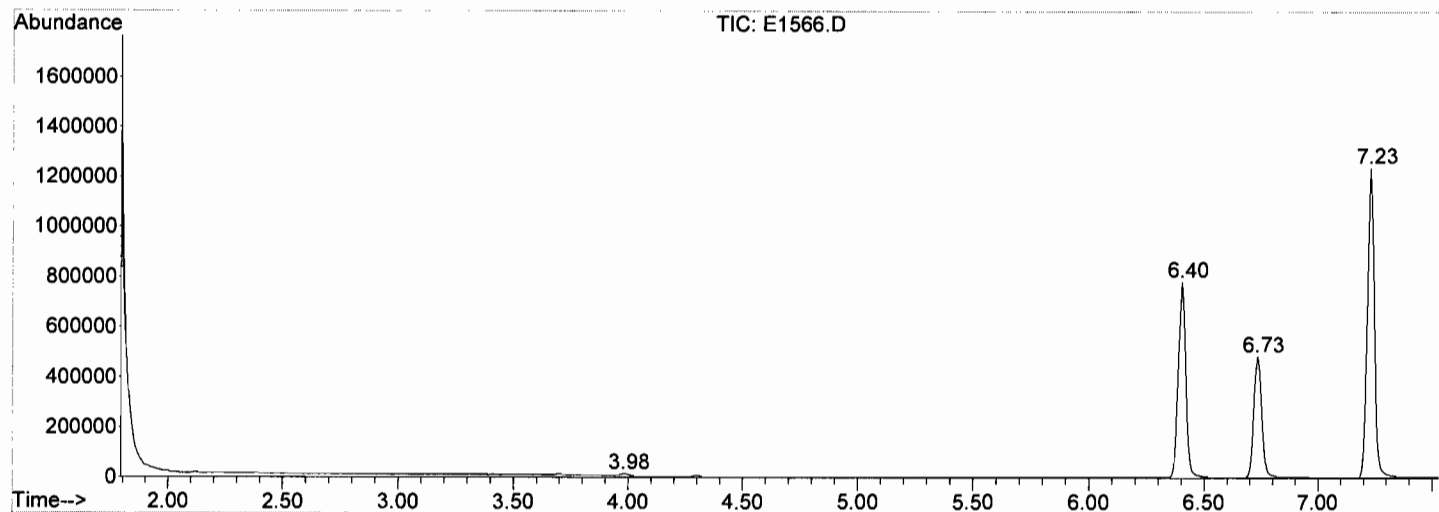
Sum of corrected areas: 14558046

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1566.D
 Acq On : 19 Sep 2017 8:06
 Operator : BARBARA
 Sample : FIELD BLANK, E17-07838-015, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
 ALS Vial : 40 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1567.D
Acq On : 19 Sep 2017 8:36
Operator : BARBARA
Sample : MW-11D, E17-07838-016, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 19 17:59:59 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	528516	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1015725	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	791503	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	394430	43.89	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	87.78%
41) Toluene-d8	8.90	98	1262054	48.59	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.18%
59) Bromofluorobenzene	11.98	95	426791	45.92	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	91.84%

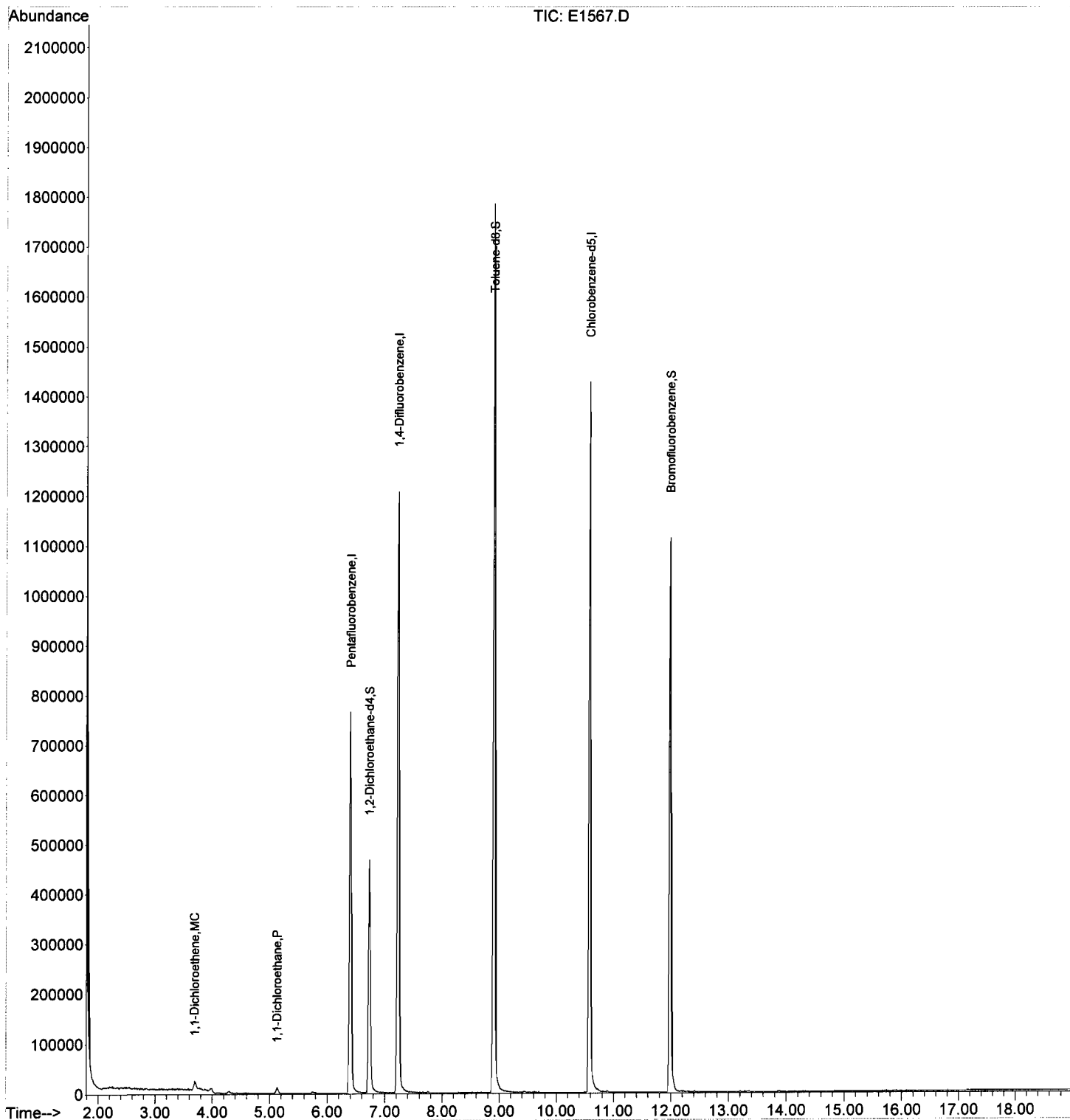
Target Compounds

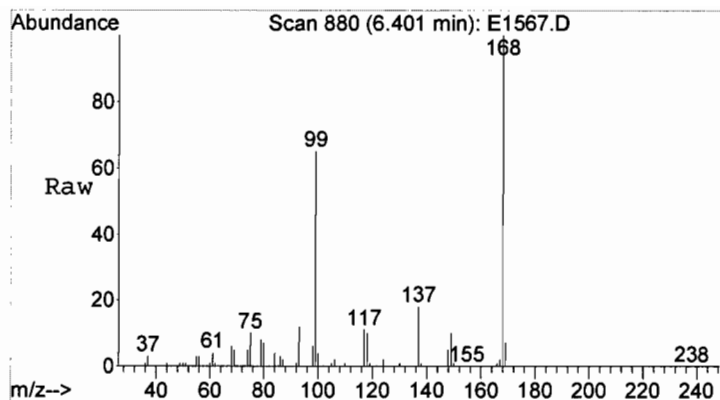
						Qvalue
9) 1,1-Dichloroethene	3.69	96	8903	1.51	UG	# 100
18) 1,1-Dichloroethane	5.13	63	13115	1.00	UG	# 96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1567.D
Acq On : 19 Sep 2017 8:36
Operator : BARBARA
Sample : MW-11D, E17-07838-016, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 41 Sample Multiplier: 1

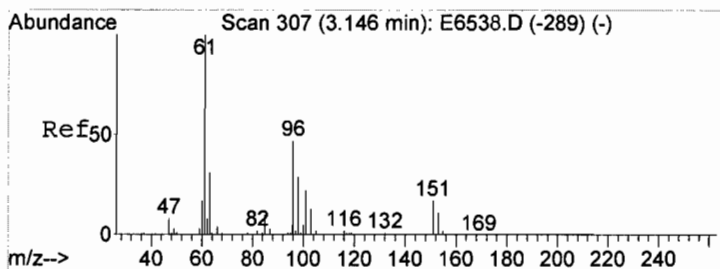
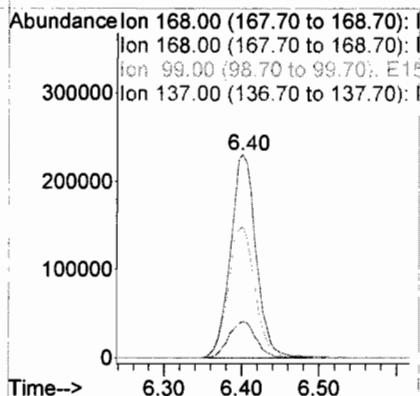
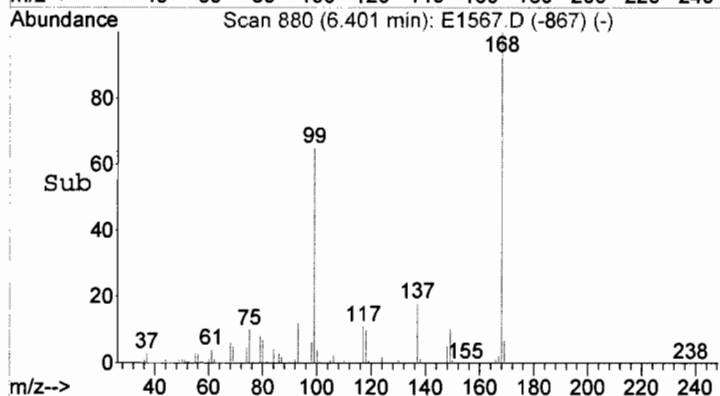
Quant Time: Sep 19 17:59:59 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





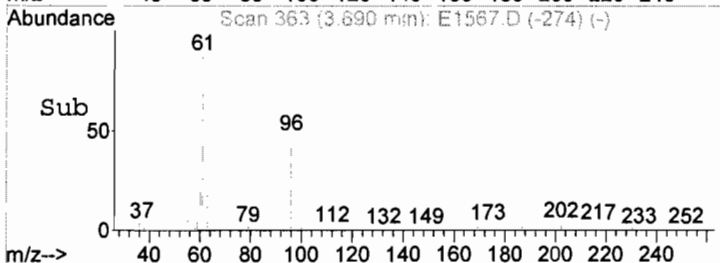
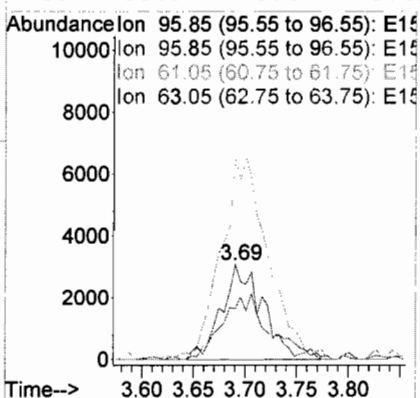
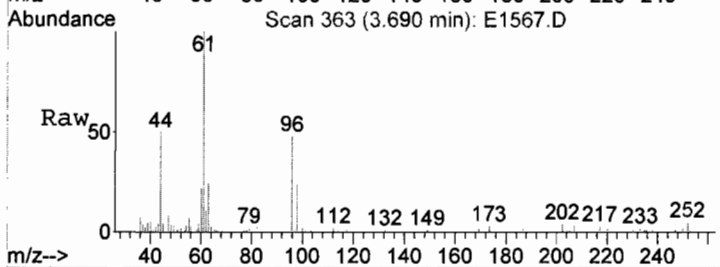
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1567.D
Acq: 19 Sep 2017 8:36

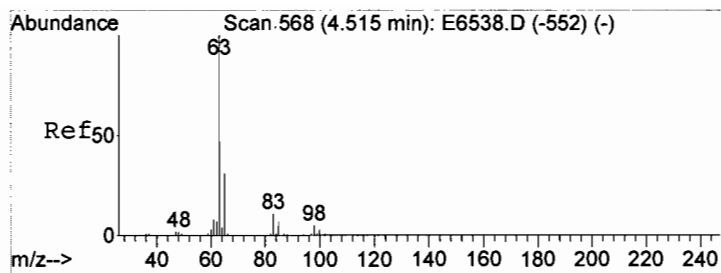
Tgt Ion: 168 Resp: 528516
Ion Ratio Lower Upper
168 100
168 100.0 80.0 120.0
99 0.0 0.0 0.0
137 0.0 0.0 0.0



#9
1,1-Dichloroethene
Concen: 1.51 UG
RT: 3.69 min Scan# 363
Delta R.T. -0.03 min
Lab File: E1567.D
Acq: 19 Sep 2017 8:36

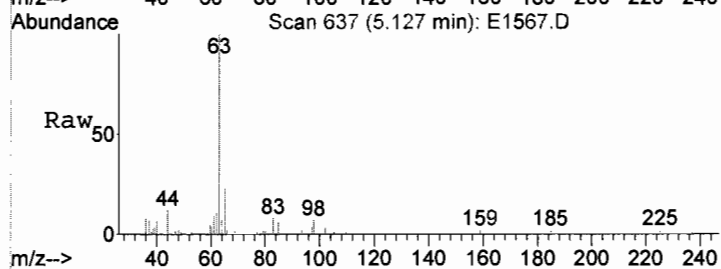
Tgt Ion: 96 Resp: 8903
Ion Ratio Lower Upper
96 100
96 100.0 80.0 120.0
61 231.0 0.0 0.0#
63 68.9 0.0 0.0#



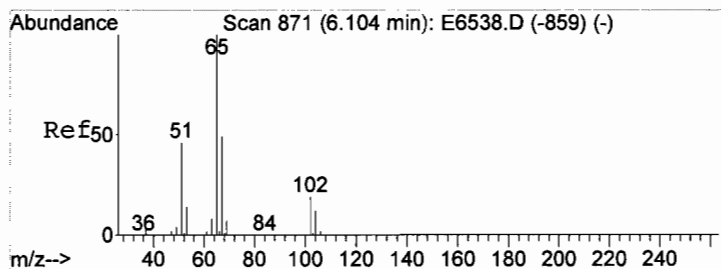
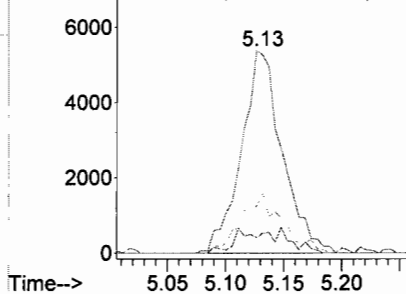
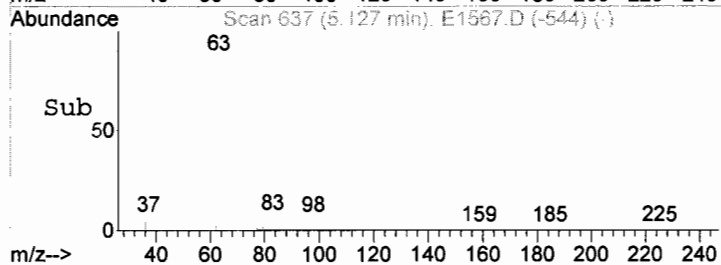


#18
 1,1-Dichloroethane
 Concen: 1.00 UG
 RT: 5.13 min Scan# 637
 Delta R.T. -0.01 min
 Lab File: E1567.D
 Acq: 19 Sep 2017 8:36

Tgt Ion: 63 Resp: 13115
 Ion Ratio Lower Upper
 63 100
 63 100.0 80.0 120.0
 65 29.6 25.6 38.4
 83 0.0 11.3 16.9#

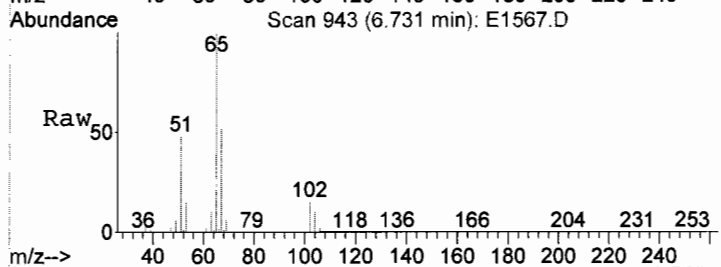


Abundance Ion 62.95 (62.65 to 63.65): E15
 Ion 62.95 (62.65 to 63.65): E15
 Ion 64.95 (64.65 to 65.65): E15
 Ion 83.10 (82.80 to 83.80): E15

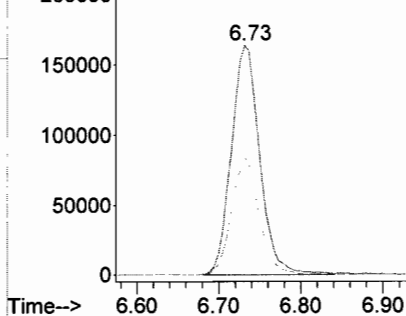
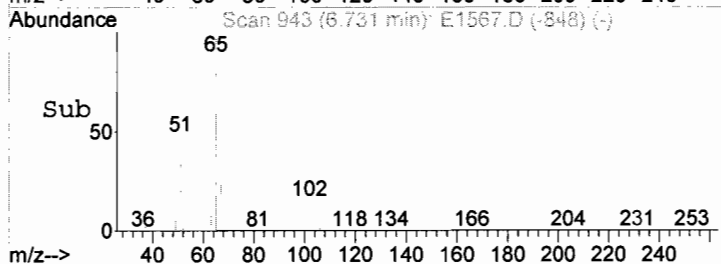


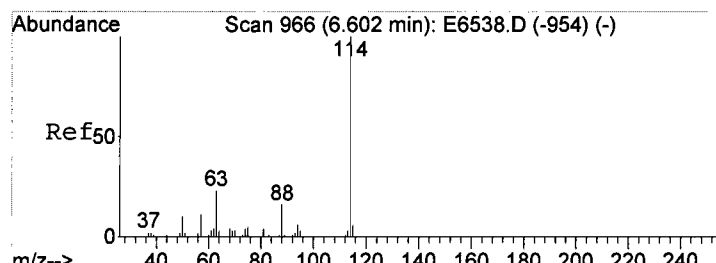
#30
 1,2-Dichloroethane-d4
 Concen: 43.89 UG
 RT: 6.73 min Scan# 943
 Delta R.T. 0.00 min
 Lab File: E1567.D
 Acq: 19 Sep 2017 8:36

Tgt Ion: 65 Resp: 394430
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 67 49.9 43.2 64.8



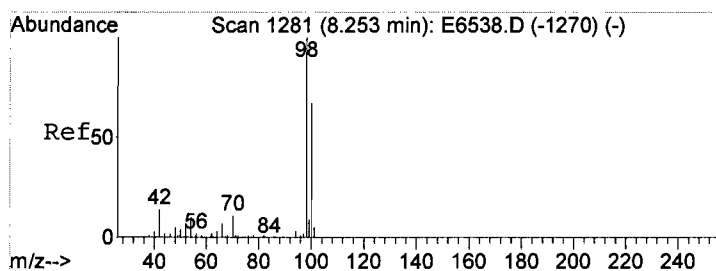
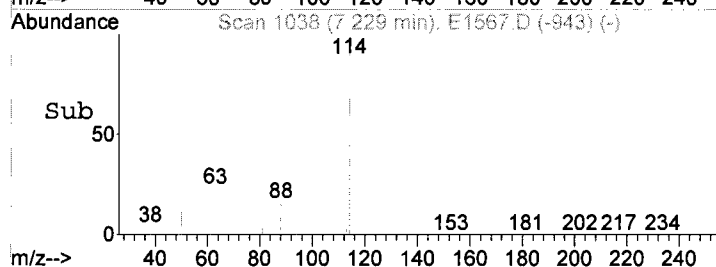
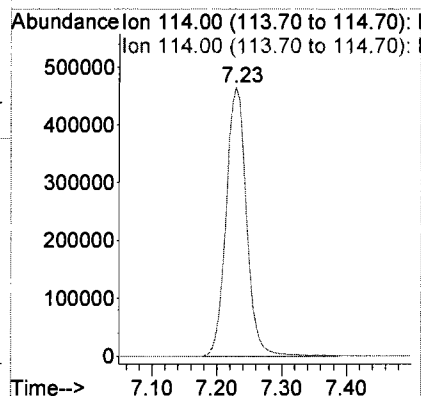
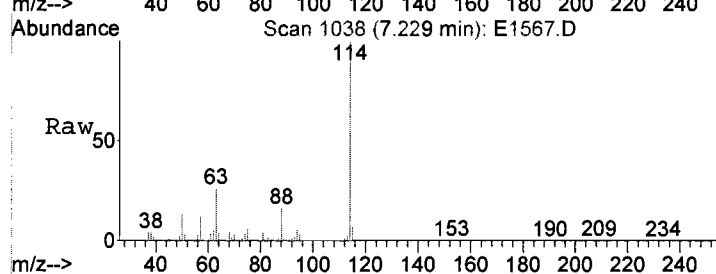
Abundance Ion 65.15 (64.85 to 65.85): E15
 Ion 65.15 (64.85 to 65.85): E15
 Ion 67.15 (66.85 to 67.85): E15





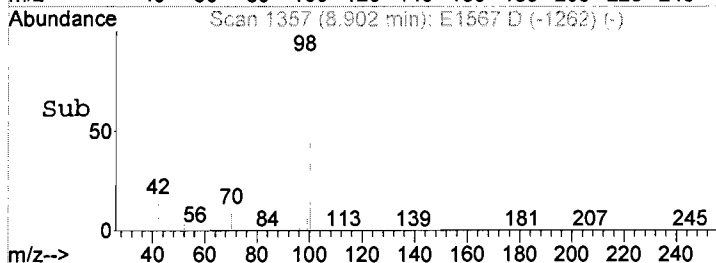
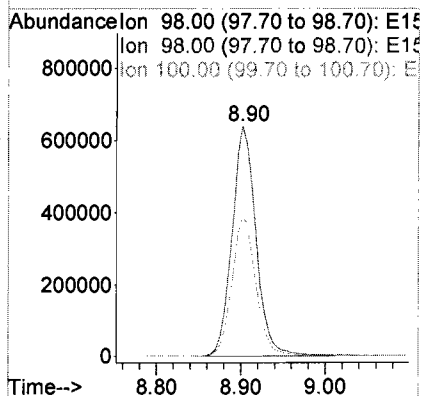
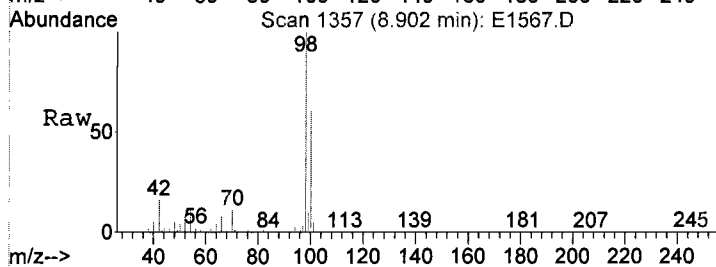
#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. 0.00 min
Lab File: E1567.D
Acq: 19 Sep 2017 8:36

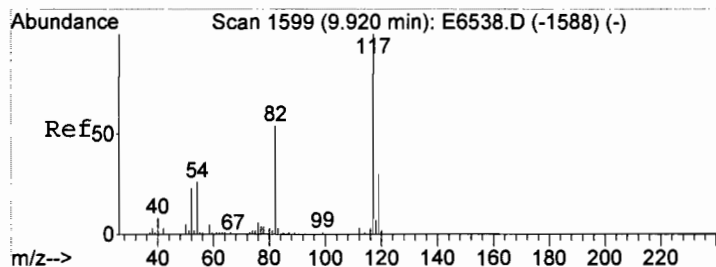
Tgt Ion: 114 Resp: 1015725
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0



#41
Toluene-d8
Concen: 48.59 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1567.D
Acq: 19 Sep 2017 8:36

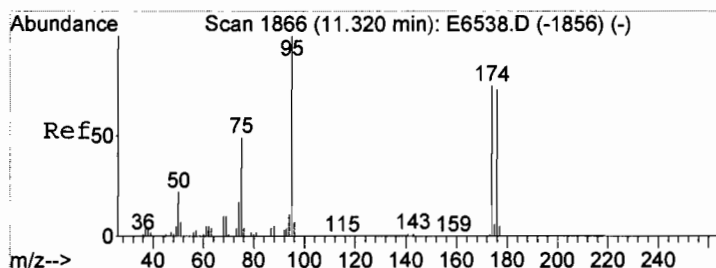
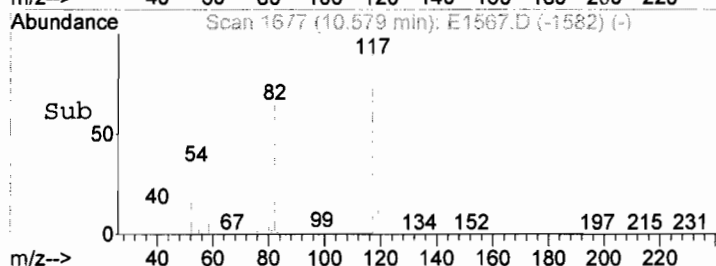
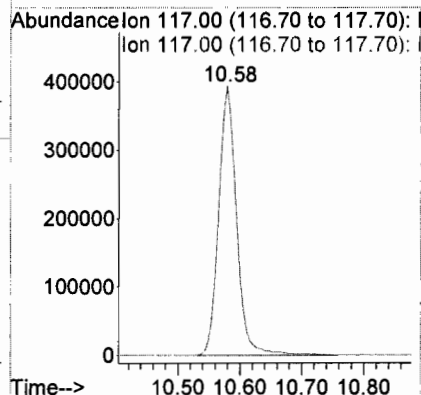
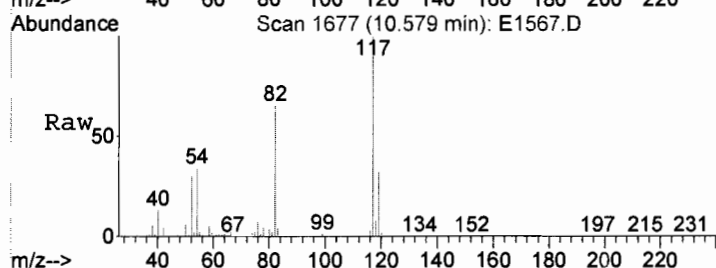
Tgt Ion: 98 Resp: 1262054
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.3 53.4 80.0





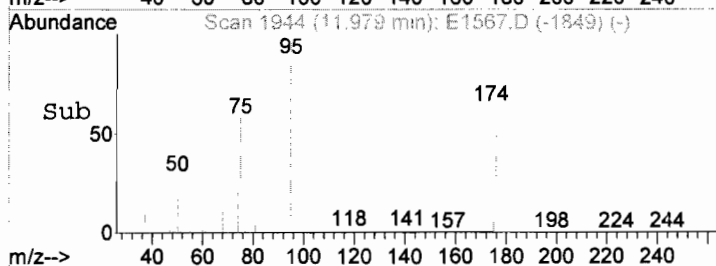
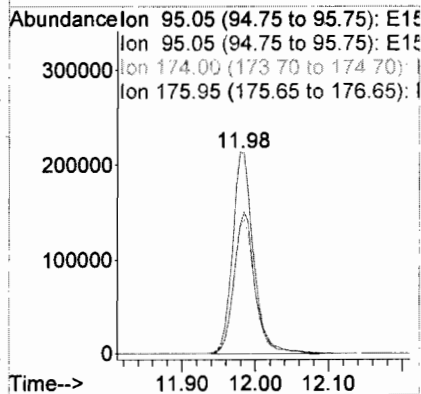
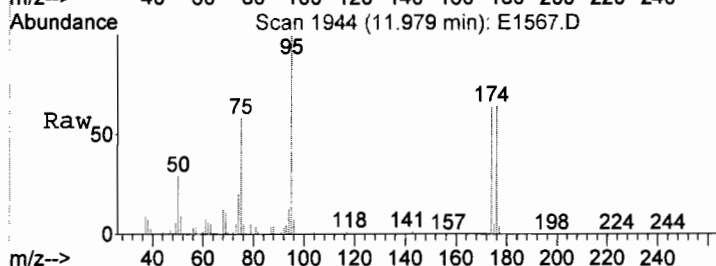
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1567.D
Acq: 19 Sep 2017 8:36

Tgt Ion: 117 Resp: 791503
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 45.92 UG
RT: 11.98 min Scan# 1944
Delta R.T. 0.00 min
Lab File: E1567.D
Acq: 19 Sep 2017 8:36

Tgt Ion: 95 Resp: 426791
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 67.4 62.9 94.3
176 70.0 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1567.D
Acq On : 19 Sep 2017 8:36
Operator : BARBARA
Sample : MW-11D,E17-07838-016,A,5mL,100
Misc : BVERITAS/LEXINGTON,09/13/17,09/14/17,1
ALS Vial : 41 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.690	354	363	394	rBV4	18279	68713	1.87%	0.472%
2	3.968	409	416	432	rVB8	10030	40560	1.10%	0.279%
3	6.401	868	880	908	rBV	766276	1798092	48.91%	12.358%
4	6.731	930	943	979	rBV	467992	1141400	31.05%	7.845%
5	7.229	1026	1038	1067	rBV	1207474	2650781	72.11%	18.219%
6	8.902	1342	1357	1396	rBV	1785876	3676259	100.00%	25.267%
7	10.579	1666	1677	1717	rBV	1428445	2927671	79.64%	20.122%
8	11.985	1932	1945	1976	rBV	1115897	2246450	61.11%	15.440%

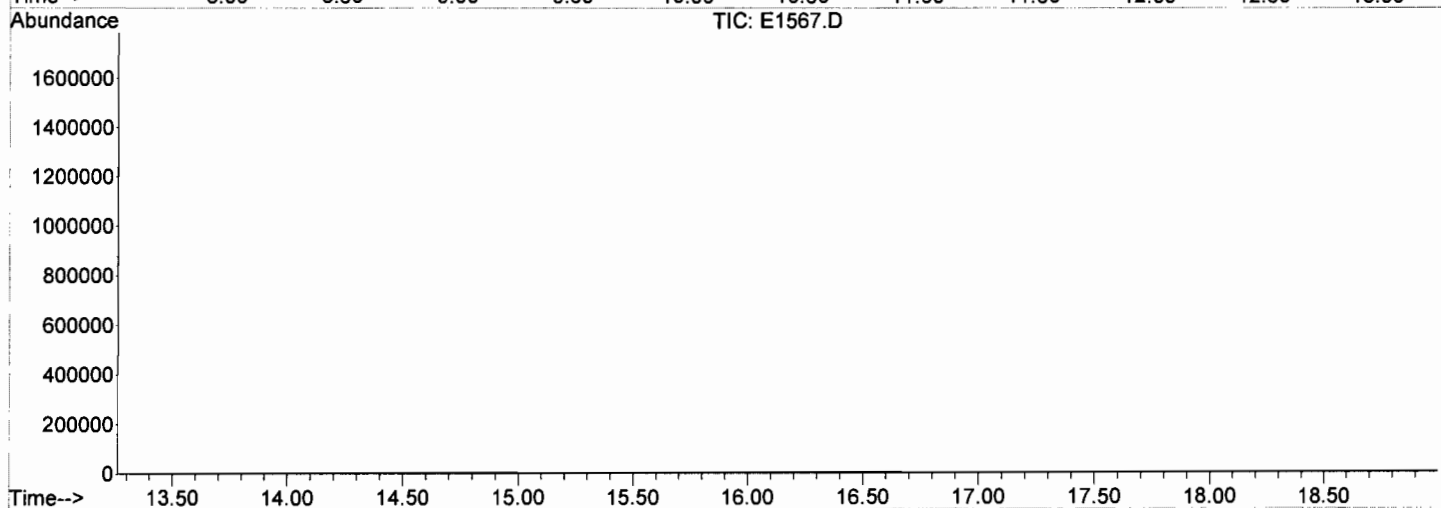
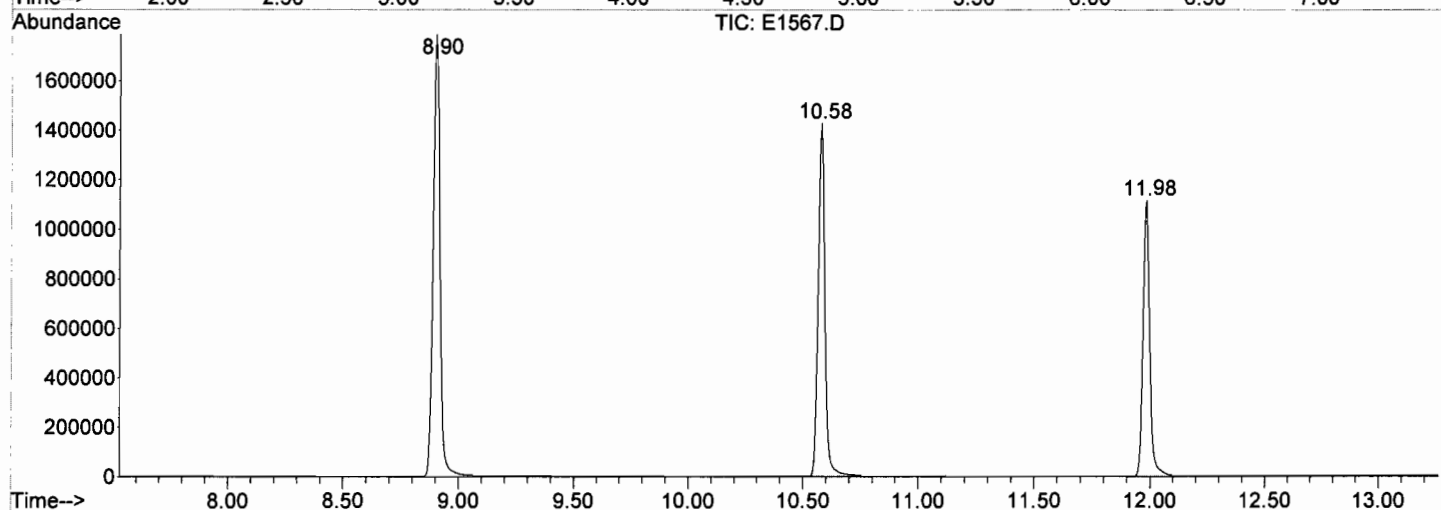
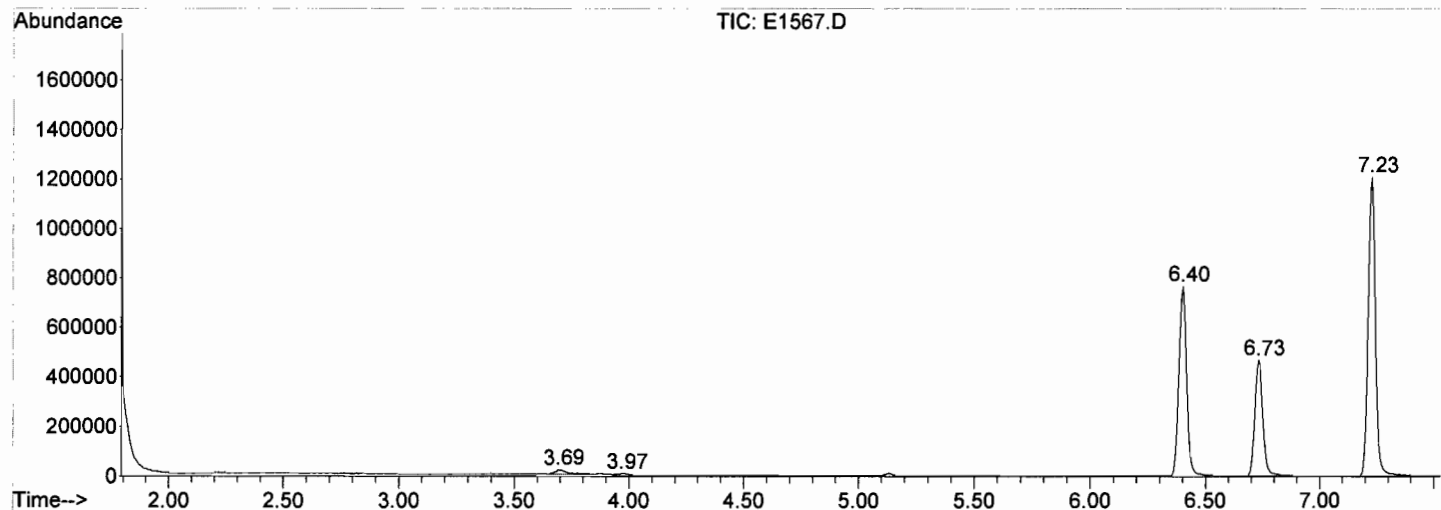
Sum of corrected areas: 14549926

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1567.D
 Acq On : 19 Sep 2017 8:36
 Operator : BARBARA
 Sample : MW-11D, E17-07838-016, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
 ALS Vial : 41 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1568.D
 Acq On : 19 Sep 2017 9:05
 Operator : BARBARA
 Sample : MW-11, E17-07838-017, A, 5mL, 100
 Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 19 18:00:32 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	529366	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	994003	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	783235	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	391765	43.52	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	87.04%
41) Toluene-d8	8.90	98	1238480	48.72	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.44%
59) Bromofluorobenzene	11.98	95	420306	45.70	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	91.40%

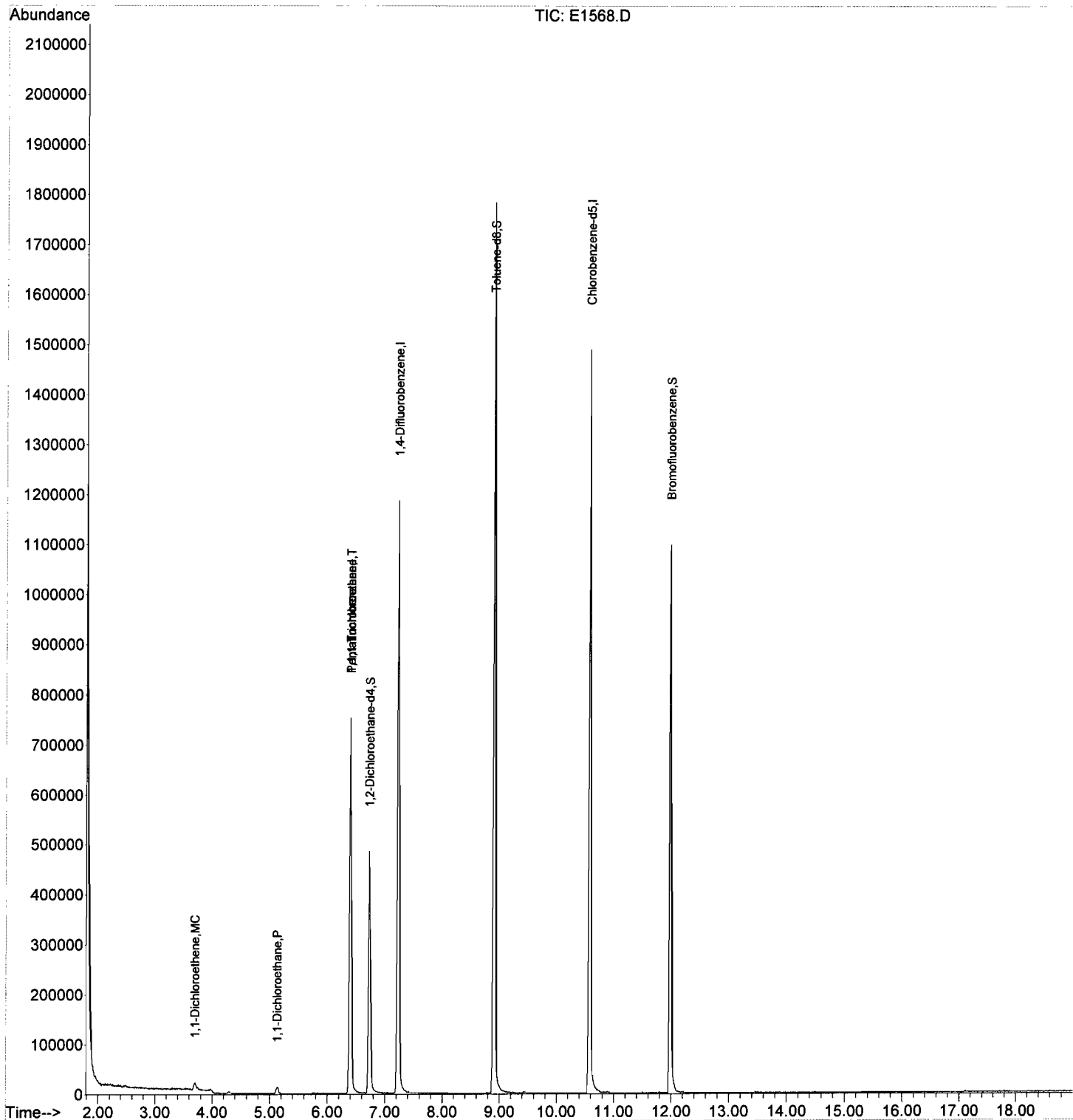
Target Compounds

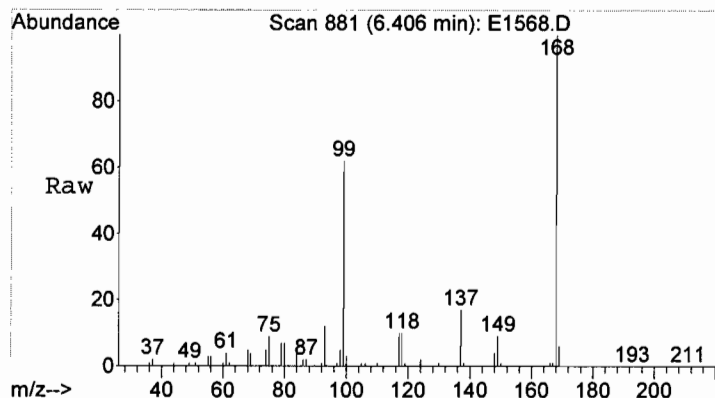
						Qvalue
9) 1,1-Dichloroethene	3.70	96	7961	1.35	UG	# 100
18) 1,1-Dichloroethane	5.13	63	16314	1.24	UG	99
26) 1,1,1-Trichloroethane	6.40	97	11604	1.40	UG	# 82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1568.D
Acq On : 19 Sep 2017 9:05
Operator : BARBARA
Sample : MW-11, E17-07838-017, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 42 Sample Multiplier: 1

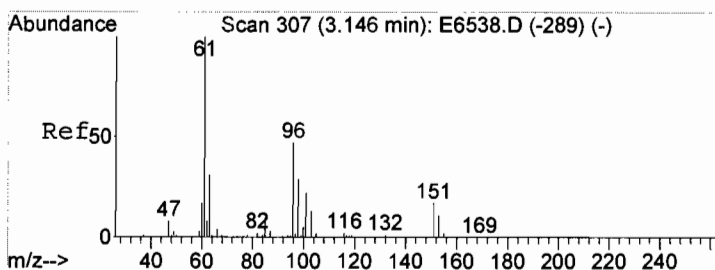
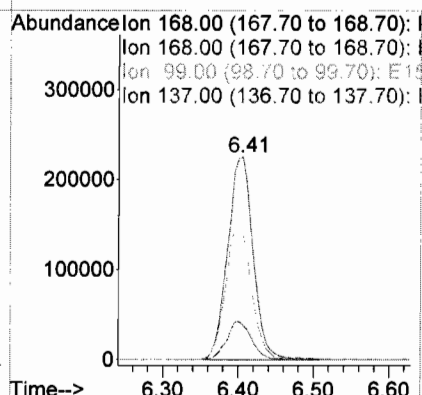
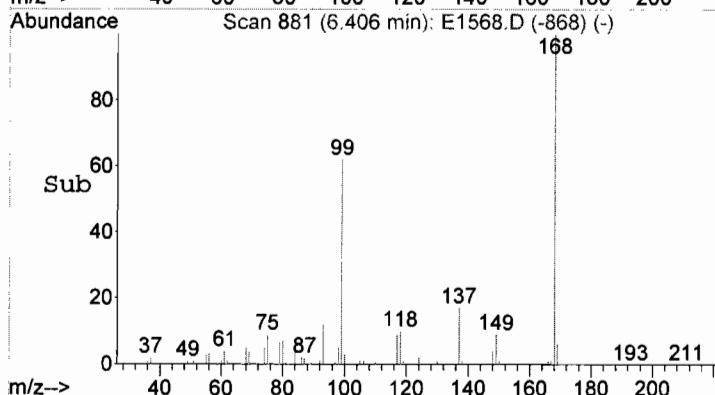
Quant Time: Sep 19 18:00:32 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





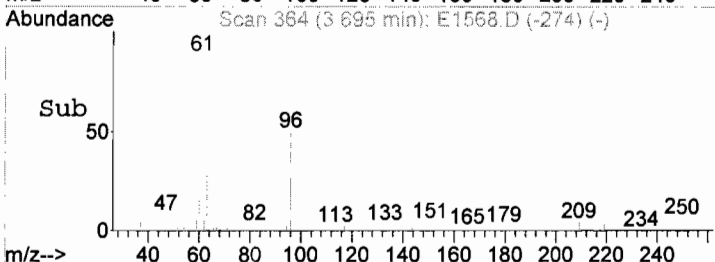
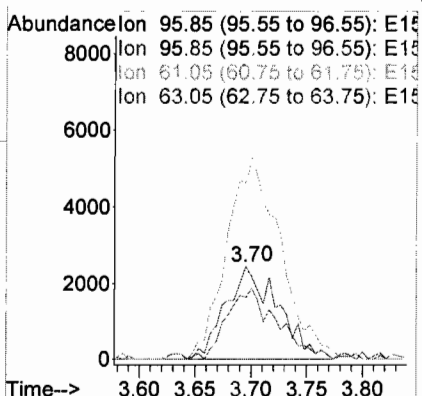
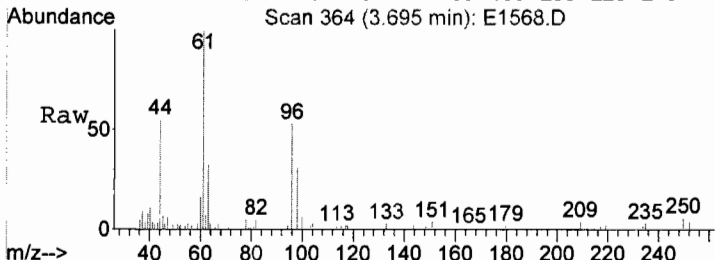
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1568.D
Acq: 19 Sep 2017 9:05

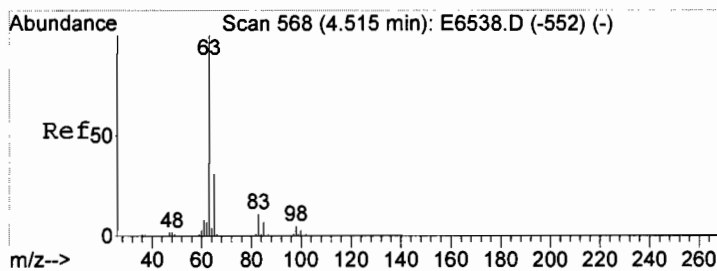
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	67.6	0.0	0.0#
137	18.6	0.0	0.0#



#9
1,1-Dichloroethene
Concen: 1.35 UG
RT: 3.70 min Scan# 364
Delta R.T. -0.03 min
Lab File: E1568.D
Acq: 19 Sep 2017 9:05

Tgt Ion	Ratio	Lower	Upper
96	100		
96	100.0	80.0	120.0
61	223.1	0.0	0.0#
63	72.9	0.0	0.0#

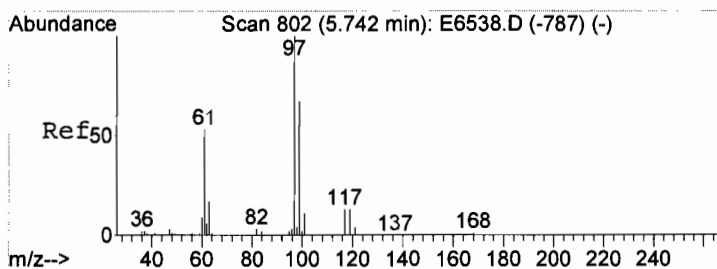
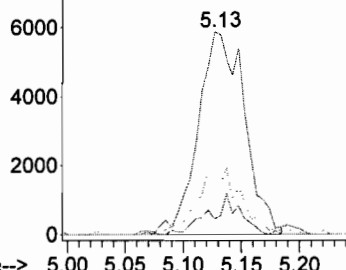




#18
1,1-Dichloroethane
Concen: 1.24 UG
RT: 5.13 min Scan# 637
Delta R.T. -0.01 min
Lab File: E1568.D
Acq: 19 Sep 2017 9:05

Tgt Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	31.2	25.6	38.4
83	13.2	11.3	16.9

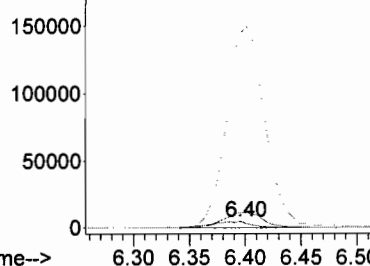
Abundance Ion 62.95 (62.65 to 63.65): E15
Ion 62.95 (62.65 to 63.65): E15
Ion 64.95 (64.65 to 65.65): E15
Ion 83.10 (82.80 to 83.80): E15

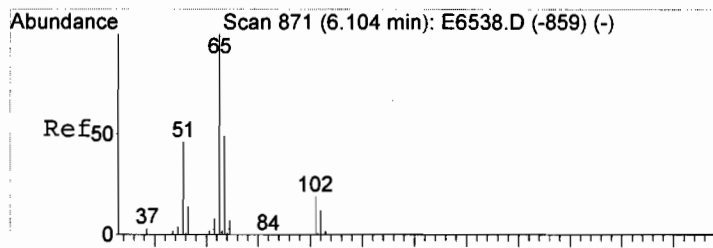


#26
1,1,1-Trichloroethane
Concen: 1.40 UG
RT: 6.40 min Scan# 879
Delta R.T. 0.01 min
Lab File: E1568.D
Acq: 19 Sep 2017 9:05

Tgt Ion	Ratio	Lower	Upper
97	100		
97	100.0	80.0	120.0
99	0.0	0.0	0.0
61	0.0	31.7	47.5#

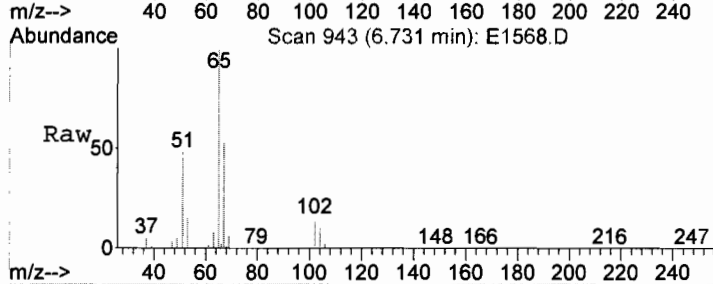
Abundance Ion 96.90 (96.60 to 97.60): E15
Ion 96.90 (96.60 to 97.60): E15
Ion 98.90 (98.60 to 99.60): E15
Ion 61.00 (60.70 to 61.70): E15



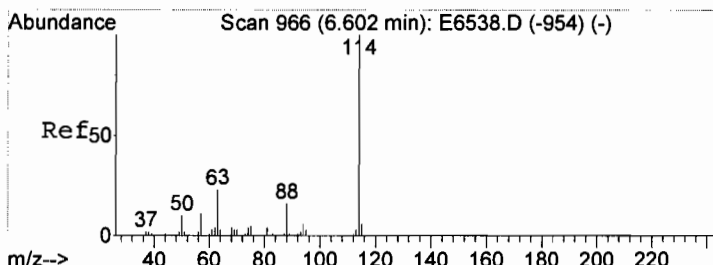
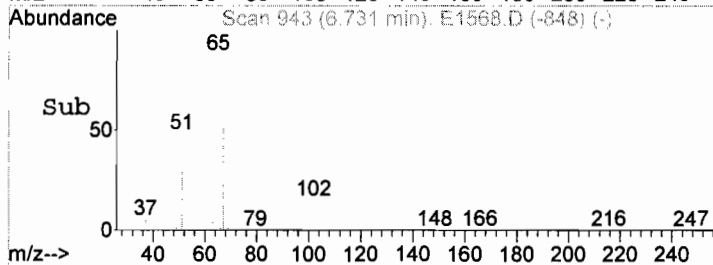
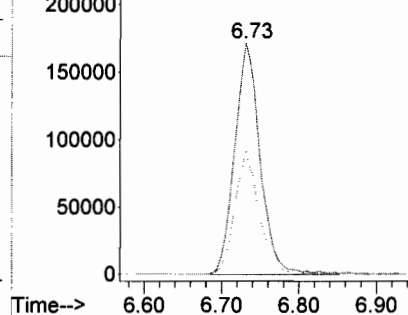


#30
 1,2-Dichloroethane-d4
 Concen: 43.52 UG
 RT: 6.73 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: E1568.D
 Acq: 19 Sep 2017 9:05

Tgt Ion: 65 Resp: 391765
 Ion Ratio Lower Upper
 65 100
 65 100.0 80.0 120.0
 67 50.7 43.2 64.8

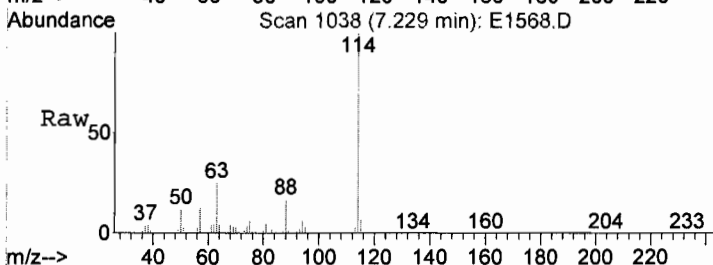


Abundance Ion 65.15 (64.85 to 65.85): E1568.D
 Ion 65.15 (64.85 to 65.85): E1568.D
 Ion 67.15 (66.85 to 67.85): E1568.D

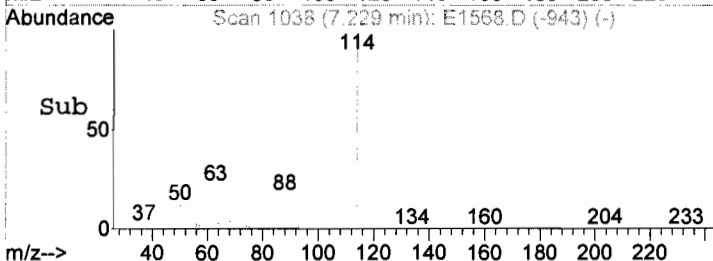
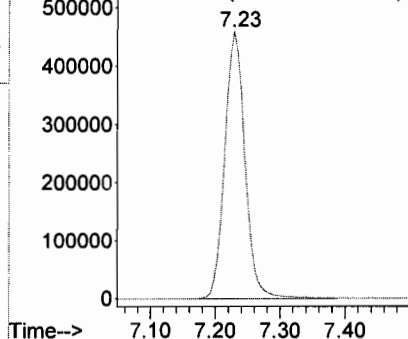


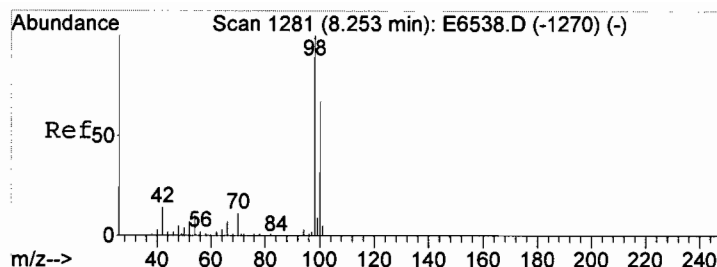
#31
 1,4-Difluorobenzene
 Concen: 50.00 UG
 RT: 7.23 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: E1568.D
 Acq: 19 Sep 2017 9:05

Tgt Ion: 114 Resp: 994003
 Ion Ratio Lower Upper
 114 100
 114 100.0 80.0 120.0



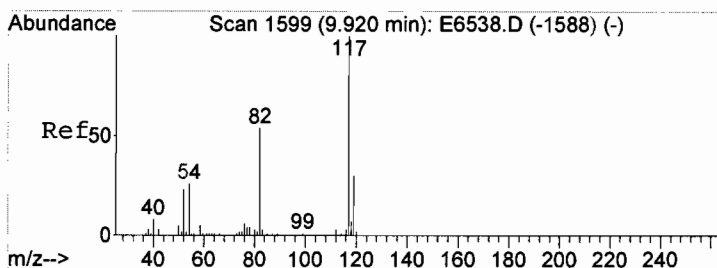
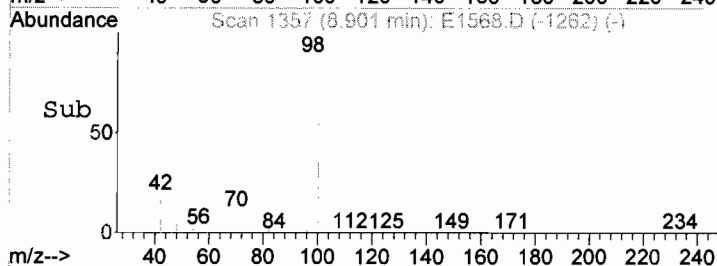
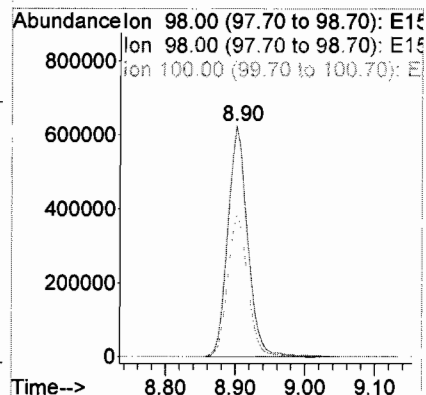
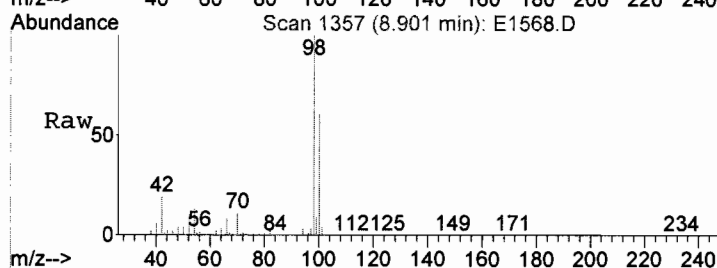
Abundance Ion 114.00 (113.70 to 114.70): E1568.D
 Ion 114.00 (113.70 to 114.70): E1568.D





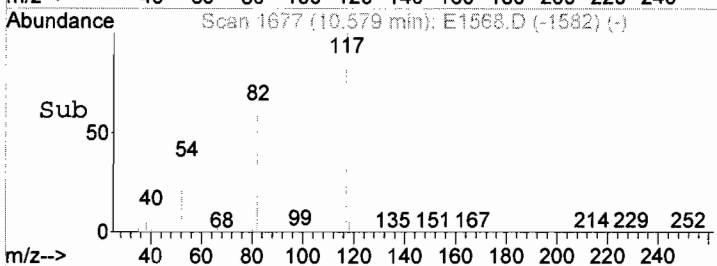
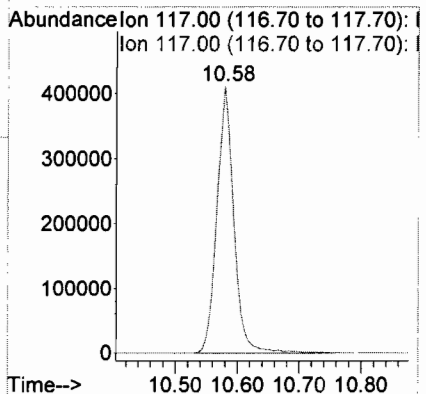
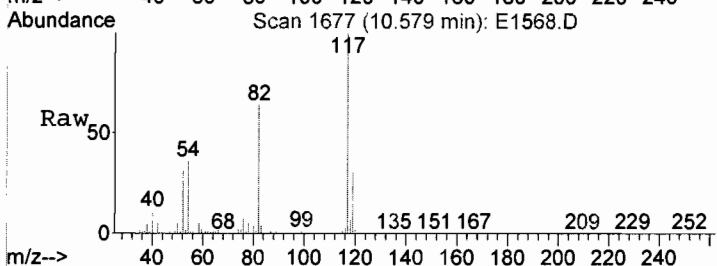
#41
Toluene-d8
Concen: 48.72 UG
RT: 8.90 min Scan# 1357
Delta R.T. -0.00 min
Lab File: E1568.D
Acq: 19 Sep 2017 9:05

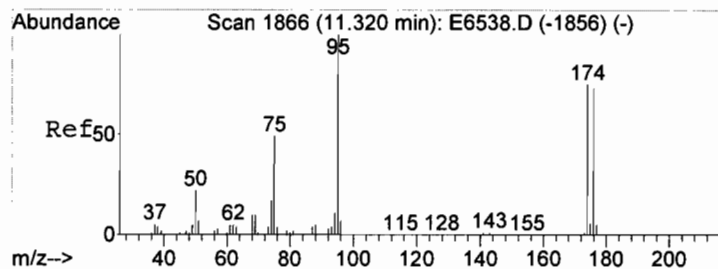
Tgt Ion: 98 Resp: 1238480
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 62.3 53.4 80.0



#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. -0.00 min
Lab File: E1568.D
Acq: 19 Sep 2017 9:05

Tgt Ion: 117 Resp: 783235
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0





#59
 Bromofluorobenzene
 Concen: 45.70 UG
 RT: 11.98 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: E1568.D
 Acq: 19 Sep 2017 9:05

Tgt Ion:	95	Resp:	420306
Ion Ratio	Lower	Upper	
95	100		
95	100.0	80.0	120.0
174	69.2	62.9	94.3
176	72.2	60.5	90.7

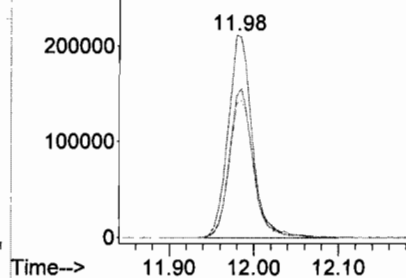
Abundance

Ion 95.05 (94.75 to 95.75): E15

Ion 95.05 (94.75 to 95.75): E15

Ion 174.00 (173.70 to 174.70): E15

Ion 175.95 (175.65 to 176.65): E15



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1568.D
Acq On : 19 Sep 2017 9:05
Operator : BARBARA
Sample : MW-11, E17-07838-017, A, 5mL, 100
Misc : BVERITAS/LEXINGTON, 09/13/17, 09/14/17, 1
ALS Vial : 42 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs : 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.222	80	83	124	rVB2	6896	40185	1.10%	0.277%
2	3.700	355	365	372	rBV4	15400	46367	1.27%	0.320%
3	5.137	627	639	654	rBV3	13913	45244	1.24%	0.312%
4	6.401	864	880	903	rBV2	752545	1809986	49.55%	12.473%
5	6.731	930	943	974	rBV2	483782	1132955	31.01%	7.808%
6	7.229	1023	1038	1068	rBV	1186464	2617571	71.65%	18.039%
7	8.901	1344	1357	1405	rBV	1782613	3653038	100.00%	25.175%
8	10.579	1665	1677	1718	rBV	1490046	2929777	80.20%	20.190%
9	11.984	1933	1945	1971	rBV	1100035	2235686	61.20%	15.407%

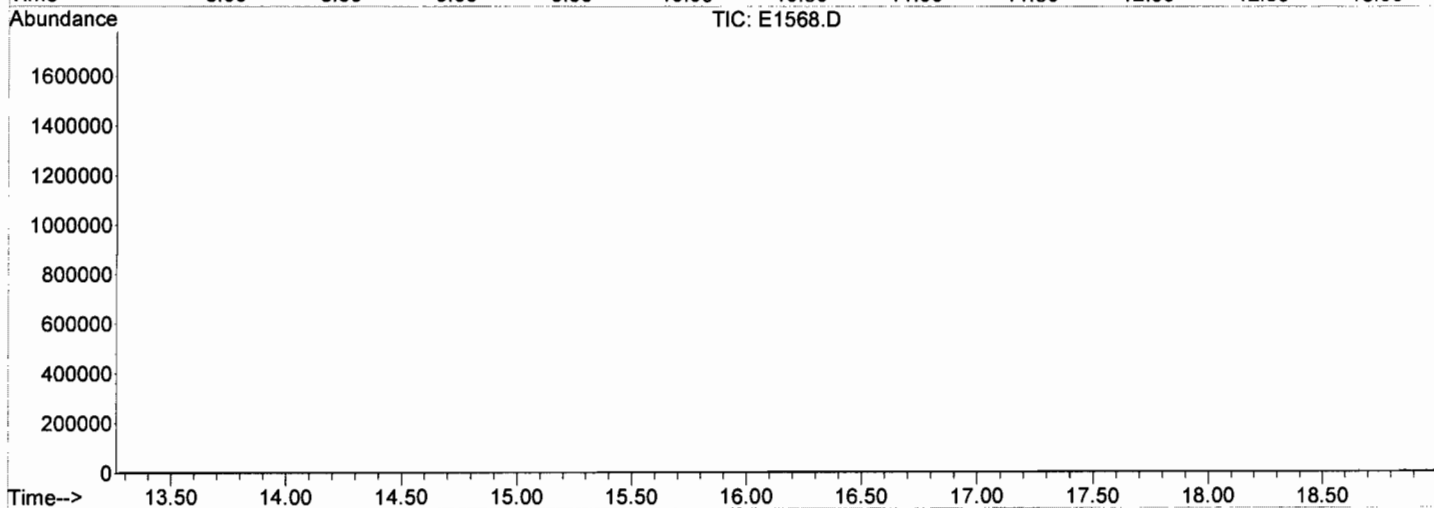
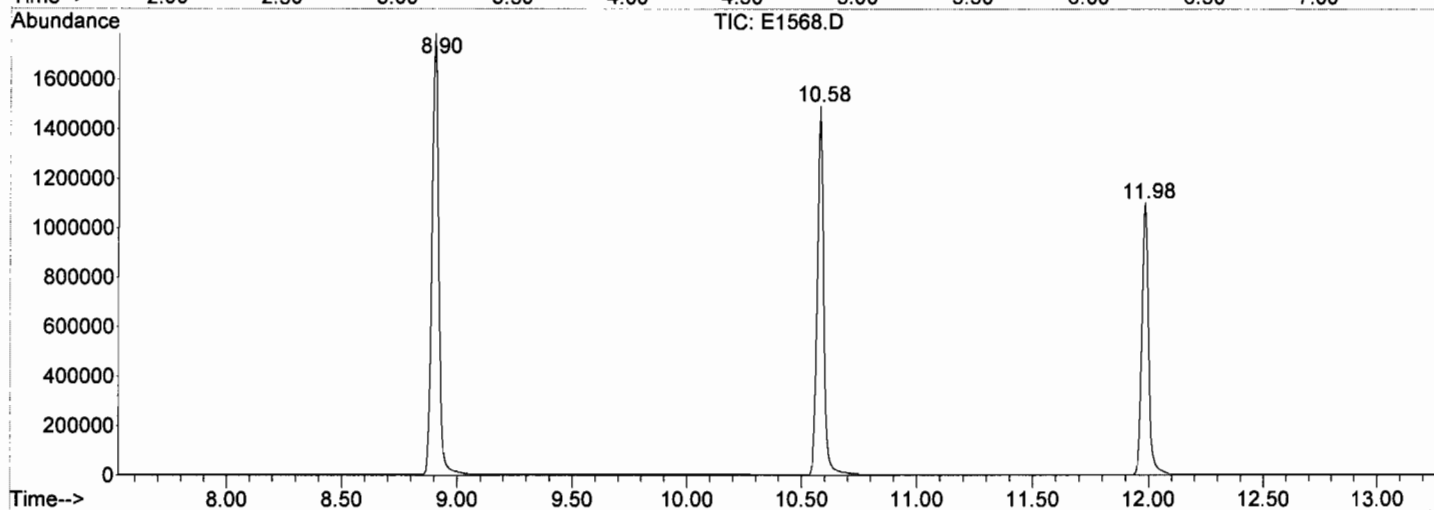
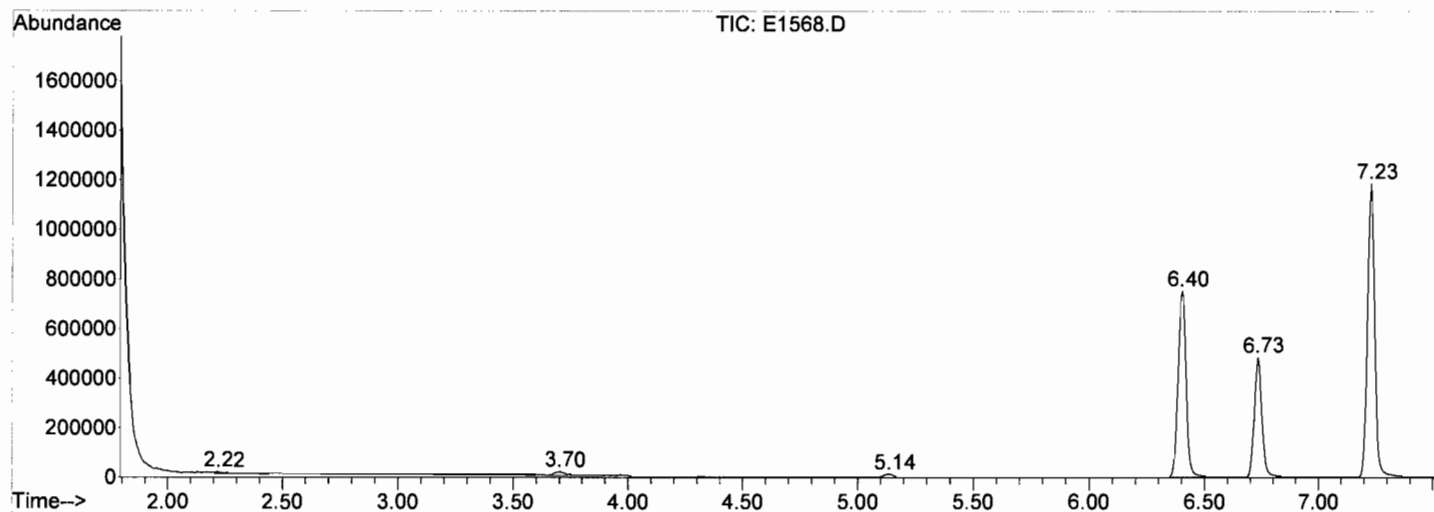
Sum of corrected areas: 14510809

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1568.D
 Acq On : 19 Sep 2017 9:05
 Operator : BARBARA
 Sample : MW-11,E17-07838-017,A,5mL,100
 Misc : BVERITAS/LEXINGTON,09/13/17,09/14/17,1
 ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P



VOLATILE ORGANICS STANDARDS

Response Factor Report MSD_E

Method Path : C:\MSDCHEM\1\METHODS\
 Method File : E8091217.M
 Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 Last Update : Wed Sep 13 10:48:46 2017
 Response Via : Initial Calibration

Calibration Files

0.5 =E1455.D 1.0 =E1456.D 5.0 =E1457.D
 20. =E1458.D 100 =E1459.D 150 =E1460.D 200 =E1461.D

Compound		0.5	1.0	5.0	20.	100	150	200	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----								
2) T	Dichlorodifluorom		0.352	0.341	0.359	0.380	0.378	0.385	0.366	4.80
3) P	Chloromethane	1.098	1.164	0.897	0.892	0.872	0.864	0.893	0.954	12.88
4) C	Vinyl chloride		0.898	0.681	0.687	0.678	0.676	0.669	0.715	12.56
5) T	Bromomethane		0.233	0.261	0.218	0.246	0.231	0.175	0.227	12.88
6) T	Chloroethane	0.367	0.366	0.312	0.242	0.339	0.348	0.354	0.333	13.28
7) T	Trichlorofluorome	0.534	0.519	0.446	0.421	0.597	0.635		0.526	15.82
8) T	Acrolein	0.127	0.115	0.113	0.104	0.121	0.110	0.121	0.116	6.53
9) MC	1,1-Dichloroethen	0.484	0.609	0.522	0.547	0.576	0.568	0.606	0.559	8.05
10) T	Acetone		0.449	0.325	0.290	0.318	0.291	0.312	0.331	18.03
11) T	Carbon disulfide	1.143	1.521	1.467	1.205	1.426	1.368	1.348	1.354	10.13
12) T	Vinyl acetate		1.156	1.075	1.033	1.172	1.047	1.129	1.102	5.31
13) T	Methylene chlorid		0.682	0.630	0.558	0.596	0.566	0.572	0.601	7.93
14) T	Acrylonitrile	0.339	0.305	0.313	0.293	0.339	0.312	0.340	0.320	5.90
15) T	tert-Butyl alcoho		0.091	0.060	0.059	0.070	0.061	0.071	0.069	17.70
16) T	trans-1,2-Dichlor	0.488	0.664	0.543	0.547	0.574	0.564	0.577	0.565	9.35
17) T	Methyl tert-butyl	1.463	1.574	1.580	1.543	1.816	1.726	1.854	1.651	8.99
18) P	1,1-Dichloroethan	1.076	1.284	1.237	1.193	1.304	1.269	1.307	1.239	6.62
19) T	Diisopropyl ether	2.224	2.391	2.573	2.661	3.010	2.927	3.037	2.689	11.76
20) T	cis-1,2-Dichloroe	0.580	0.673	0.578	0.596	0.665	0.644	0.665	0.629	6.77
21) T	2,2-Dichloropropa		0.603	0.560	0.502	0.568	0.508	0.500	0.540	7.96
22) T	2-Butanone (MEK)		0.352	0.348	0.331	0.391	0.355	0.379	0.359	6.11
23) T	Bromochloromethan		0.322	0.281	0.276	0.300	0.284	0.299	0.294	5.70
25) C	Chloroform	0.971	1.163	1.078	1.052	1.140	1.101	1.153	1.094	6.20
26) T	1,1,1-Trichloroet	0.731	0.923	0.761	0.738	0.808	0.760	0.758	0.783	8.51
27) T	Carbon tetrachlor	0.555	0.804	0.647	0.647	0.741	0.727	0.733	0.693	11.87
28) T	1,1-Dichloroprope	0.657	1.063	0.785	0.801	0.885	0.870	0.909	0.853	14.70
29) T	1,2-Dichloroethan	0.978	1.113	1.066	1.036	1.147	1.112	1.177	1.090	6.25
30) S	1,2-Dichloroethan	0.877	0.877	0.847	0.848	0.843	0.831	0.829	0.850	2.33
31) I	1,4-Difluorobenzene	-----ISTD-----								
32) M	Benzene	1.258	1.470	1.371	1.331	1.470	1.462	1.530	1.413	6.78
33) M	Trichloroethene	0.308	0.410	0.337	0.327	0.352	0.351	0.358	0.349	9.19
34) C	1,2-Dichloropropa	0.418	0.423	0.398	0.397	0.450	0.434	0.460	0.426	5.65
35) T	Dibromomethane		0.227	0.207	0.204	0.233	0.221	0.232	0.221	5.69
36) T	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	9.43
37) T	Bromodichlorometh	0.465	0.452	0.442	0.451	0.511	0.507	0.532	0.480	7.44
39) T	cis-1,3-Dichlorop	0.397	0.433	0.495	0.529	0.640	0.619	0.650	0.538	18.98
40) T	4-Methyl-2-pentan		0.293	0.369	0.404	0.498	0.451	0.474	0.415	18.32
41) S	Toluene-d8	1.251	1.270	1.286	1.295	1.284	1.290	1.274	1.279	1.17
42) MC	Toluene	0.742	0.952	0.840	0.805	0.903	0.882	0.931	0.865	8.58
43) T	trans-1,3-Dichlor	0.398	0.453	0.437	0.480	0.578	0.572	0.608	0.504	16.19
44) T	1,1,2-Trichloroet		0.281	0.252	0.248	0.282	0.272	0.283	0.270	5.83
45) T	Tetrachloroethene	0.202	0.340	0.310	0.274	0.299	0.290	0.303	0.288	14.85
46) T	1,3-Dichloropropa	0.468	0.542	0.524	0.527	0.599	0.587	0.615	0.552	9.34
47) T	2-Hexanone		0.280	0.264	0.277	0.348	0.312	0.340	0.303	11.60
48) T	Dibromochlorometh		0.307	0.280	0.285	0.340	0.332	0.348	0.315	9.11
49) T	1,2-Dibromoethane	0.225	0.249	0.268	0.269	0.308	0.298	0.317	0.276	12.08
50) I	Chlorobenzene-d5	-----ISTD-----								
51) MP	Chlorobenzene	1.072	1.367	1.147	1.063	1.159	1.143	1.210	1.166	8.76
52) T	1,1,1,2-Tetrachlo	0.332	0.384	0.357	0.357	0.408	0.395	0.421	0.379	8.41
53) C	Ethylbenzene	1.649	2.282	1.891	1.908	2.148	2.115	2.277	2.039	11.42

54)	T	m,p-Xylene	0.514	0.849	0.735	0.716	0.799	0.799	0.870	0.755	15.86
55)	T	o-Xylene	0.487	0.677	0.651	0.695	0.797	0.798	0.832	0.705	16.82
56)	T	Styrene	0.981	0.950	1.110	1.161	1.390	1.383	1.518	1.213	18.10
57)	P	Bromoform	0.191	0.198	0.192	0.201	0.250	0.237	0.251	0.217	12.68
58)	T	Isopropylbenzene	1.191	1.786	1.698	1.773	2.045	2.044	2.138	1.811	17.68
59)	S	Bromofluorobenzen	0.564	0.582	0.595	0.585	0.593	0.593	0.599	0.587	2.03
60)	P	1,1,2,2-Tetrachlo	0.613	0.589	0.528	0.491	0.564	0.518	0.563	0.552	7.68
61)	T	Bromobenzene	0.415	0.478	0.417	0.413	0.444	0.426	0.458	0.436	5.72
62)	T	1,2,3-Trichloropr	0.551	0.535	0.469	0.445	0.506	0.473	0.509	0.498	7.66
63)	T	n-Propylbenzene	1.741	2.909	2.341	2.280	2.526	2.510	2.661	2.424	15.10
64)	T	2-Chlorotoluene	1.095	1.642	1.365	1.360	1.535	1.487	1.572	1.437	12.71
65)	T	1,3,5-Trimethylbe	1.048	1.706	1.547	1.530	1.779	1.778	1.863	1.607	17.16
66)	T	4-Chlorotoluene	1.229	1.975	1.666	1.609	1.819	1.796	1.940	1.719	14.73
68)	T	1,2,4-Trimethylbe		1.634	1.579	1.585	1.824	1.797	1.923	1.724	8.34
69)	T	sec-Butylbenzene	1.142	2.091	1.844	1.845	2.149	2.091	2.260	1.917	19.55
70)	T	1,3-Dichlorobenze	0.635	1.052	0.861	0.797	0.902	0.864	0.924	0.862	14.75
72)	T	1,4-Dichlorobenze	0.634	1.071	0.851	0.822	0.917	0.896	0.955	0.878	15.31
74)	T	1,2-Dichlorobenze	0.559	0.912	0.827	0.785	0.899	0.865	0.892	0.820	15.04
75)	T	1,2-Dibromo-3-chl		0.088	0.075	0.079	0.101	0.092	0.101	0.089	12.23
76)	T	1,2,4-Trichlorobe	0.339	0.529	0.425	0.440	0.568	0.544	0.576	0.489	18.24
77)	T	Hexachlorobutadie	0.131	0.214	0.190	0.164	0.171	0.168	0.177	0.174	14.56
79)	T	1,2,3-Trichlorobe	0.301	0.479	0.427	0.417	0.522	0.487	0.526	0.451	17.41
80)	T	1,1,2-Trichloro-1		0.336	0.369	0.356	0.368	0.369	0.386	0.364	4.54
81)	T	Methyl acetate	0.852	0.805	0.756	0.707	0.798	0.715	0.779	0.773	6.68
82)	T	Cyclohexane		1.273	0.831	0.902	0.936	0.916	0.956	0.969	15.98
83)	T	Methylcyclohexane		0.927	0.600	0.618	0.681	0.679	0.711	0.703	16.75

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

E8091217.M Thu Sep 14 11:00:05 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1455.D
 Acq On : 12 Sep 2017 14:18
 Operator : BARBARA
 Sample : ICC00.5, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 2 Sample Multiplier: 1

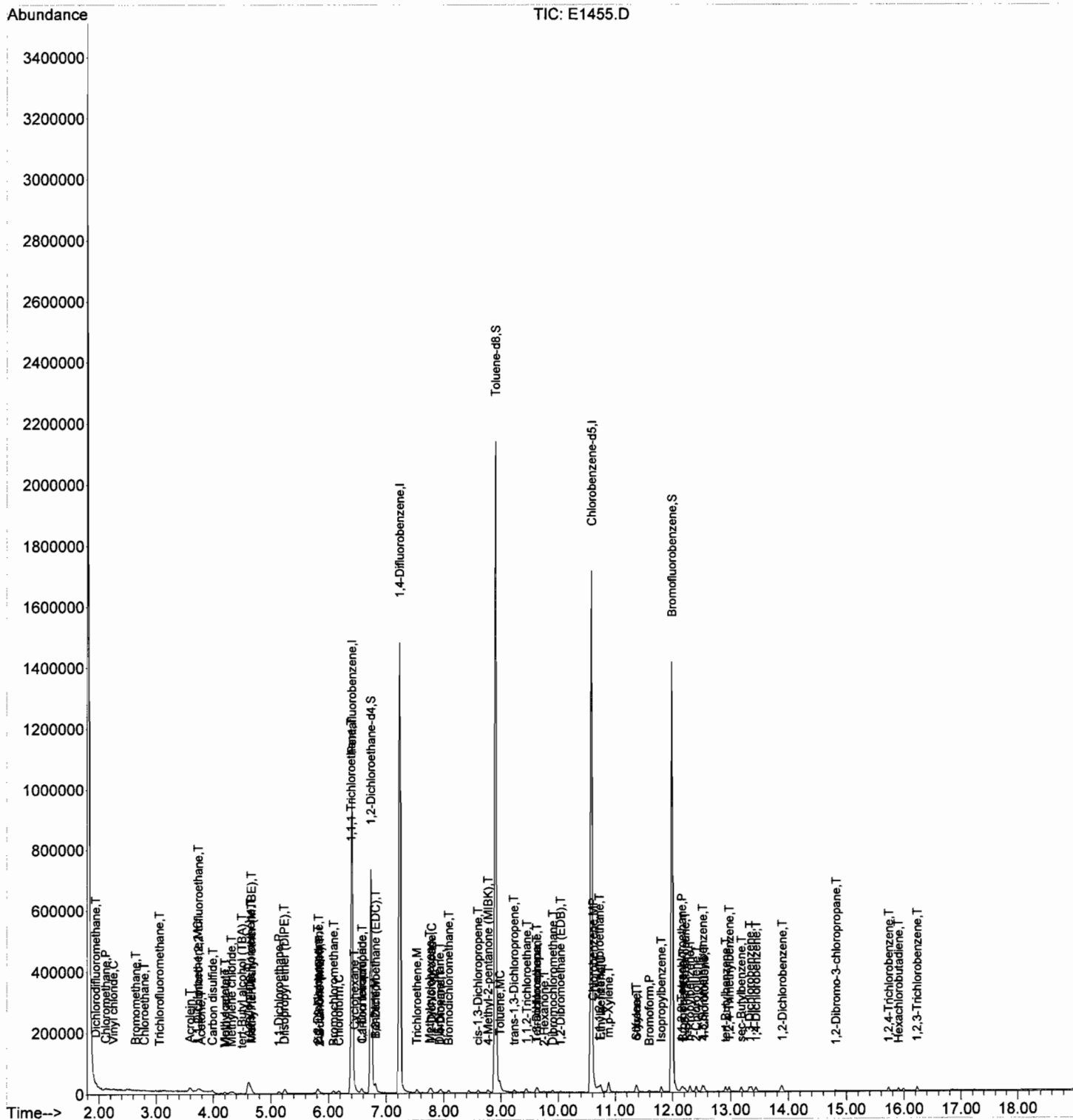
Quant Time: Sep 13 10:46:58 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:19:37 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

46) 1,3-Dichloropropane	9.63	76	5823	0.42	UG	# 93
47) 2-Hexanone	9.76	43	3804	0.52	UG	# 70
48) Dibromochloromethane	9.91	129	3149m	0.41	UG	
49) 1,2-Dibromoethane (EDB)	10.04	107	2794	0.40	UG	91
51) Chlorobenzene	10.62	112	10402	0.46	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.71	131	3216	0.44	UG	# 53
53) Ethylbenzene	10.74	91	15993	0.40	UG	99
54) m,p-Xylene	10.88	106	9976m	0.66	UG	
55) o-Xylene	11.36	106	4728m	0.34	UG	
56) Styrene	11.37	104	9518m	0.41	UG	
57) Bromoform	11.59	173	1857m	0.44	UG	
58) Isopropylbenzene	11.80	105	11557	0.32	UG	98
60) 1,1,2,2-Tetrachloroethane	12.15	83	5943	0.57	UG	# 95
61) Bromobenzene	12.17	156	4027	0.48	UG	# 98
62) 1,2,3-Trichloropropane	12.21	75	5348	0.57	UG	# 1
63) n-Propylbenzene	12.30	91	16885	0.35	UG	99
64) 2-Chlorotoluene	12.40	91	10625	0.37	UG	100
65) 1,3,5-Trimethylbenzene	12.51	105	10162	0.31	UG	98
66) 4-Chlorotoluene	12.54	91	11926	0.35	UG	98
67) tert-Butylbenzene	12.92	119	6798	0.28	UG	# 1
68) 1,2,4-Trimethylbenzene	12.98	105	9472	0.29	UG	99
69) sec-Butylbenzene	13.19	105	11079m	0.28	UG	
70) 1,3-Dichlorobenzene	13.33	146	6164	0.35	UG	# 95
72) 1,4-Dichlorobenzene	13.44	146	6153	0.35	UG	95
74) 1,2-Dichlorobenzene	13.90	146	5424	0.33	UG	# 95
75) 1,2-Dibromo-3-chloropropan	14.82	75	681	0.40	UG	# 60
76) 1,2,4-Trichlorobenzene	15.73	180	3285	0.34	UG	96
77) Hexachlorobutadiene	15.91	225	1270	0.36	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	2917	0.32	UG	99
80) 1,1,2-Trichloro-1,2,2-trif	3.74	101	3257m	0.47	UG	
81) Methyl acetate	4.20	43	8261	0.56	UG	# 73
82) Cyclohexane	6.45	56	7798m	0.41	UG	
83) Methylcyclohexane	7.75	83	5107m	0.38	UG	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Sep 13 10:46:58 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:19:37 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1456.D
 Acq On : 12 Sep 2017 14:48
 Operator : BARBARA
 Sample : ICC001, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 13 10:46:05 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:14:27 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	661560	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1211441	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	949578	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.74	65	580513	52.10	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	104.20%
41) Toluene-d8	8.90	98	1538612	49.27	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.54%
59) Bromofluorobenzene	11.98	95	553079	49.25	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	98.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.93	85	4662m	0.97	UG	
3) Chloromethane	2.11	50	15399	1.32	UG	98
4) Vinyl chloride	2.24	62	11879	1.32	UG	# 94
5) Bromomethane	2.63	94	3089m	1.00	UG	
6) Chloroethane	2.77	64	4849m	1.18	UG	
7) Trichlorofluoromethane	3.06	101	6872	1.02	UG	# 77
8) Acrolein	3.59	56	30552	20.63	UG	# 100
9) 1,1-Dichloroethene	3.73	96	8052m	1.10	UG	
10) Acetone	3.78	43	11884m	2.93	UG	
11) Carbon disulfide	3.97	76	20130m	1.11	UG	
12) Vinyl acetate	4.20	43	15294	1.07	UG	# 100
13) Methylene chloride	4.30	84	9026m	1.16	UG	
14) Acrylonitrile	4.62	53	80835	19.43	UG	# 100
15) tert-Butyl alcohol (TBA)	4.49	59	2417m	2.92	UG	
16) trans-1,2-Dichloroethene	4.63	96	8784	1.19	UG	# 99
17) Methyl tert-butyl ether (M)	4.66	73	20825	0.94	UG	100
18) 1,1-Dichloroethane	5.14	63	16985	1.03	UG	99
19) Diisopropyl ether (DIPE)	5.25	45	31641	0.86	UG	# 79
20) cis-1,2-Dichloroethene	5.81	96	8904	1.08	UG	# 100
21) 2,2-Dichloropropane	5.81	77	7982	1.13	UG	98
22) 2-Butanone (MEK)	5.84	43	9306m	1.98	UG	
23) Bromochloromethane	6.08	128	4254	1.13	UG	# 96
25) Chloroform	6.16	83	15393	1.06	UG	97
26) 1,1,1-Trichloroethane	6.39	97	12214	1.20	UG	# 82
27) Carbon tetrachloride	6.56	117	10635	1.16	UG	# 51
28) 1,1-Dichloropropene	6.57	75	14070	1.27	UG	# 81
29) 1,2-Dichloroethane (EDC)	6.81	62	14727	1.02	UG	# 86
32) Benzene	6.81	78	35620	1.04	UG	99
33) Trichloroethene	7.53	95	9938	1.20	UG	88
34) 1,2-Dichloropropane	7.79	63	10246	1.01	UG	100
35) Dibromomethane	7.92	93	5488	1.05	UG	# 61
36) 1,4-Dioxane	7.94	88	12797	170.45	UG	# 100
37) Bromodichloromethane	8.09	83	10949	0.95	UG	# 98
38) 2-Chloroethyl vinyl ether	8.43	63	8291	1.40	UG	# 86
39) cis-1,3-Dichloropropene	8.60	75	10496	0.76	UG	99
40) 4-Methyl-2-pentanone (MIBK)	8.78	43	14182	1.36	UG	# 95
42) Toluene	8.97	92	23068	1.11	UG	98
43) trans-1,3-Dichloropropene	9.23	75	10981m	0.88	UG	
44) 1,1,2-Trichloroethane	9.43	83	6799	1.06	UG	91

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1456.D
 Acq On : 12 Sep 2017 14:48
 Operator : BARBARA
 Sample : ICC001, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 13 10:46:05 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:14:27 2017
 Response via : Initial Calibration

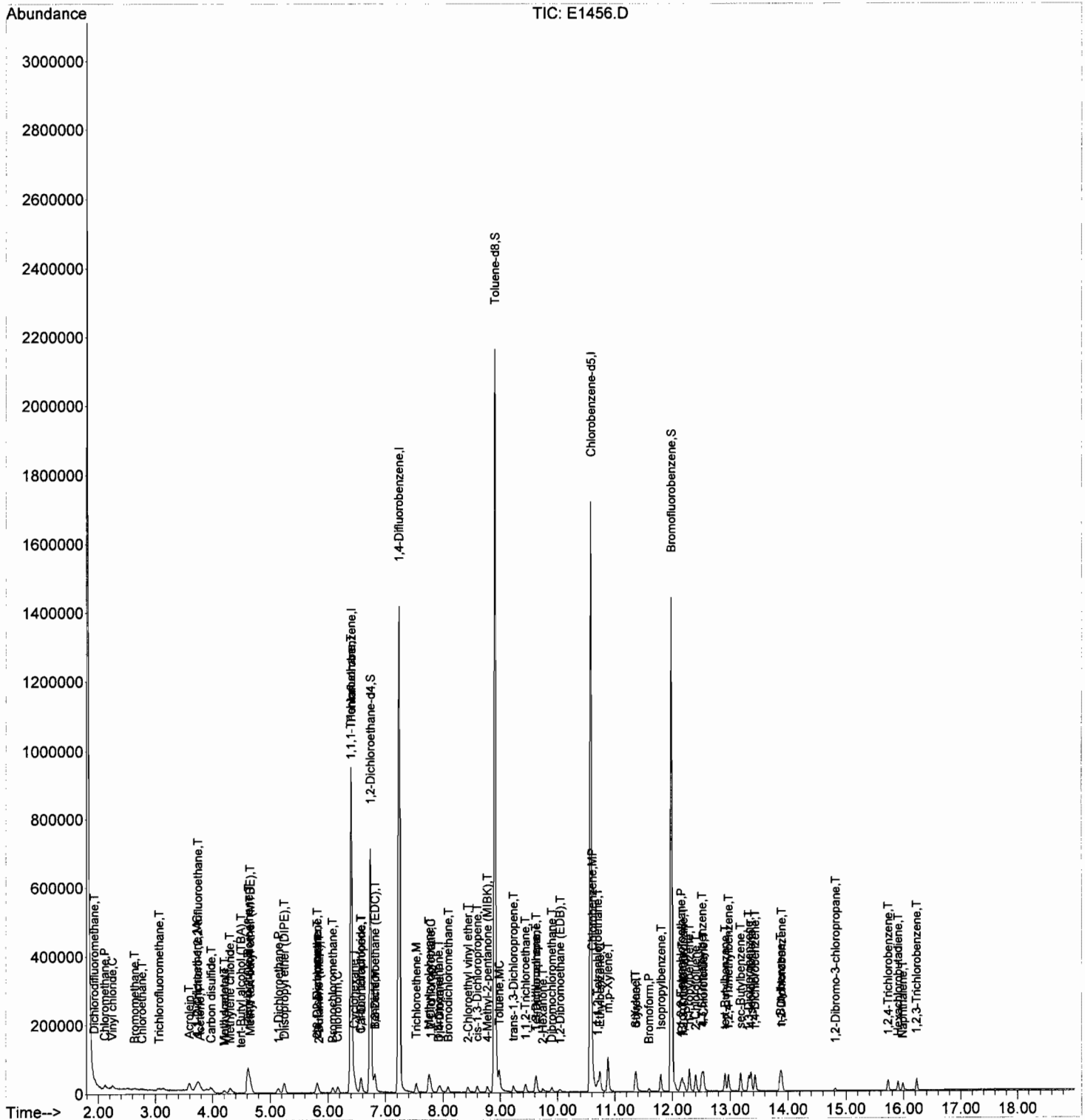
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) Tetrachloroethene	9.62	166	8231m	1.16	UG	
46) 1,3-Dichloropropane	9.63	76	13131	0.97	UG	100
47) 2-Hexanone	9.75	43	13570m	1.87	UG	
48) Dibromochloromethane	9.90	129	7449	0.99	UG	94
49) 1,2-Dibromoethane (EDB)	10.04	107	6022	0.87	UG	99
51) Chlorobenzene	10.61	112	25961	1.21	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.71	131	7284	1.01	UG	# 53
53) Ethylbenzene	10.74	91	43337	1.13	UG	99
54) m,p-Xylene	10.88	106	32248	2.23	UG	96
55) o-Xylene	11.35	106	12859	0.92	UG	92
56) Styrene	11.37	104	18049	0.75	UG	# 100
57) Bromoform	11.60	173	3763	0.90	UG	# 63
58) Isopropylbenzene	11.80	105	33927	0.95	UG	99
60) 1,1,2,2-Tetrachloroethane	12.15	83	11185	1.12	UG	# 95
61) Bromobenzene	12.17	156	9077	1.12	UG	# 51
62) 1,2,3-Trichloropropane	12.19	75	10169	1.13	UG	# 1
63) n-Propylbenzene	12.29	91	55243	1.20	UG	98
64) 2-Chlorotoluene	12.40	91	31178	1.14	UG	100
65) 1,3,5-Trimethylbenzene	12.51	105	32403	1.03	UG	97
66) 4-Chlorotoluene	12.54	91	37505	1.15	UG	99
67) tert-Butylbenzene	12.91	119	22752	0.96	UG	# 1
68) 1,2,4-Trimethylbenzene	12.97	105	31032	0.96	UG	97
69) sec-Butylbenzene	13.18	105	39703	1.05	UG	99
70) 1,3-Dichlorobenzene	13.32	146	19980	1.23	UG	# 68
71) 4-Isopropyltoluene	13.36	119	32319	1.04	UG	# 90
72) 1,4-Dichlorobenzene	13.43	146	20339	1.23	UG	97
73) n-Butylbenzene	13.87	91	32008	1.05	UG	# 98
74) 1,2-Dichlorobenzene	13.89	146	17318	1.08	UG	# 81
75) 1,2-Dibromo-3-chloropropan	14.82	75	1680	1.02	UG	# 49
76) 1,2,4-Trichlorobenzene	15.73	180	10050	1.07	UG	95
77) Hexachlorobutadiene	15.91	225	4059m	1.23	UG	
78) Naphthalene	15.98	128	14484	0.61	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	9102	1.03	UG	95
80) 1,1,2-Trichloro-1,2,2-trif	3.74	101	6390m	0.92	UG	
81) Methyl acetate	4.20	43	15294	1.08	UG	# 82
82) Cyclohexane	6.46	56	24178	1.42	UG	# 67
83) Methylcyclohexane	7.75	83	17611	1.44	UG	# 43

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
Data File : E1456.D
Acq On : 12 Sep 2017 14:48
Operator : BARBARA
Sample : ICC001, ICC170912, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 13 10:46:05 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:14:27 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1457.D
 Acq On : 12 Sep 2017 15:18
 Operator : BARBARA
 Sample : ICC005, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 13 10:31:08 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	679851	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1214244	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	967292	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	575855	50.39	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	100.78%
41) Toluene-d8	8.90	98	1561143	49.84	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.68%
59) Bromofluorobenzene	11.98	95	575673	50.44	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	100.88%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.93	85	23196	4.58	UG	99
3) Chloromethane	2.11	50	60965	5.12	UG	99
4) Vinyl chloride	2.24	62	46308	5.00	UG	99
5) Bromomethane	2.64	94	17724	5.85	UG	97
6) Chloroethane	2.77	64	21213	5.04	UG	# 100
7) Trichlorofluoromethane	3.06	101	30338m	4.05	UG	# 100
8) Acrolein	3.59	56	153414	101.10	UG	# 100
9) 1,1-Dichloroethene	3.71	96	35493m	4.63	UG	
10) Acetone	3.79	43	44207	10.85	UG	98
11) Carbon disulfide	3.98	76	99736	5.50	UG	100
12) Vinyl acetate	4.19	43	73081	4.96	UG	# 100
13) Methylene chloride	4.30	84	42850	5.49	UG	# 68
14) Acrylonitrile	4.60	53	426143	99.55	UG	# 100
15) tert-Butyl alcohol (TBA)	4.48	59	8183	9.49	UG	# 100
16) trans-1,2-Dichloroethene	4.64	96	36929	4.84	UG	# 98
17) Methyl tert-butyl ether (M	4.66	73	107404	4.66	UG	100
18) 1,1-Dichloroethane	5.14	63	84105	4.93	UG	99
19) Diisopropyl ether (DIPE)	5.24	45	174944	4.49	UG	# 48
20) cis-1,2-Dichloroethene	5.81	96	39299	4.55	UG	# 100
21) 2,2-Dichloropropane	5.81	77	38046	5.32	UG	98
22) 2-Butanone (MEK)	5.84	43	47283	9.70	UG	# 94
23) Bromochloromethane	6.08	128	19101	4.90	UG	# 98
24) Tetrahydrofuran	5.24	42	12000	5.90	UG	# 100
25) Chloroform	6.17	83	73313	4.91	UG	99
26) 1,1,1-Trichloroethane	6.38	97	51734	4.95	UG	# 82
27) Carbon tetrachloride	6.57	117	43974	4.59	UG	99
28) 1,1-Dichloropropene	6.57	75	53361	4.61	UG	# 81
29) 1,2-Dichloroethane (EDC)	6.81	62	72473	4.85	UG	# 86
32) Benzene	6.81	78	166470	4.82	UG	100
33) Trichloroethene	7.53	95	40911	4.90	UG	90
34) 1,2-Dichloropropane	7.78	63	48324	4.66	UG	# 99
35) Dibromomethane	7.91	93	25191	4.72	UG	# 91
36) 1,4-Dioxane	7.94	88	71259	930.46	UG	# 100
37) Bromodichloromethane	8.08	83	53684	4.51	UG	# 97
38) 2-Chloroethyl vinyl ether	8.42	63	48151	7.64	UG	# 96
39) cis-1,3-Dichloropropene	8.60	75	60124	4.15	UG	99
40) 4-Methyl-2-pentanone (MIBK	8.77	43	89537	8.18	UG	# 94
42) Toluene	8.97	92	101988	4.86	UG	99
43) trans-1,3-Dichloropropene	9.23	75	53036	4.02	UG	# 79

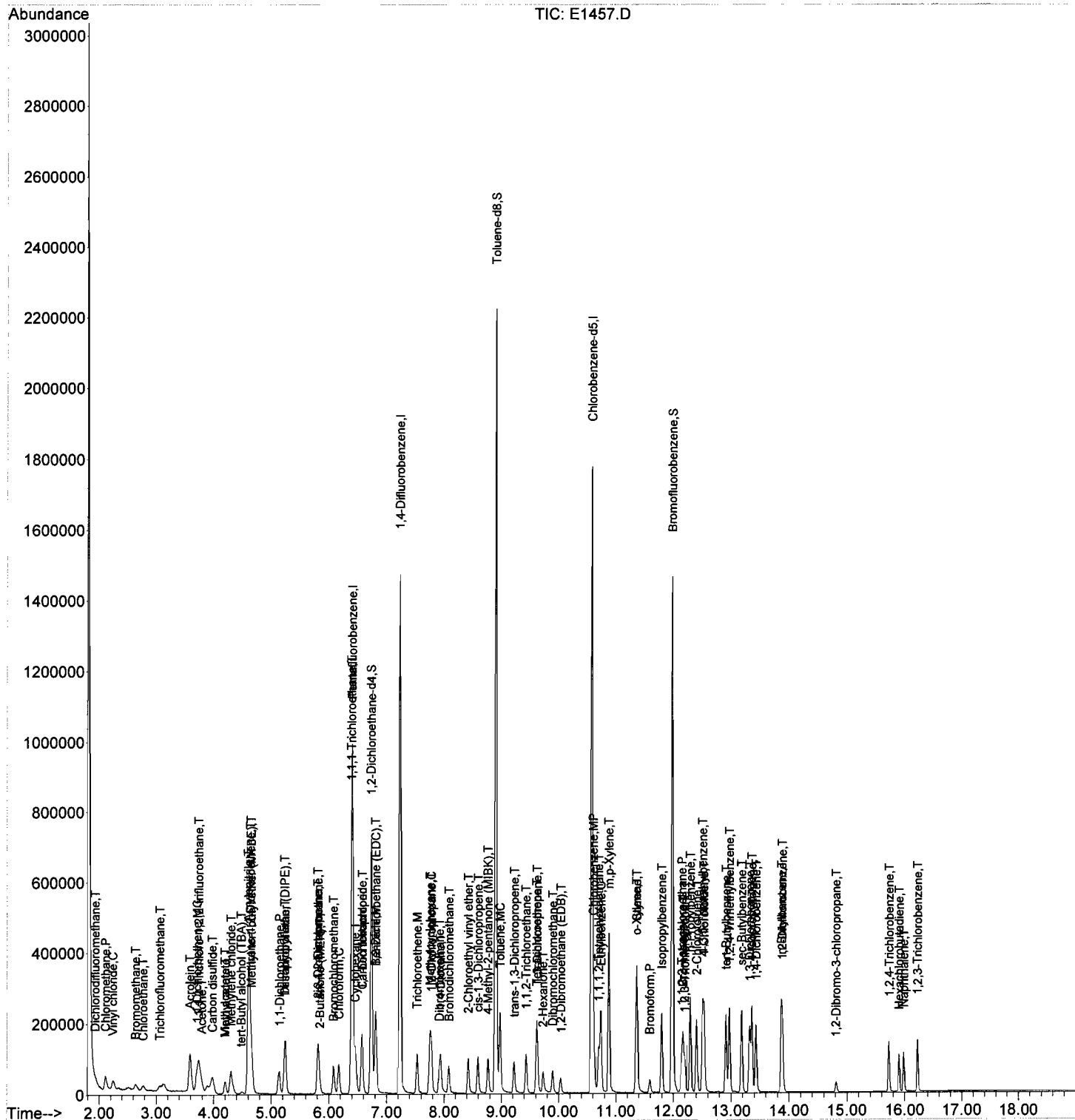
Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1457.D
 Acq On : 12 Sep 2017 15:18
 Operator : BARBARA
 Sample : ICC005, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 13 10:31:08 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,1,2-Trichloroethane	9.43	83	30640	4.72	UG	98
45) Tetrachloroethene	9.61	166	37613	5.39	UG	# 98
46) 1,3-Dichloropropane	9.63	76	63583	4.58	UG	100
47) 2-Hexanone	9.72	43	64133m	8.46	UG	
48) Dibromochloromethane	9.89	129	34046	4.40	UG	98
49) 1,2-Dibromoethane (EDB)	10.04	107	32499	4.59	UG	100
51) Chlorobenzene	10.61	112	110923	5.11	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.70	131	34541	4.61	UG	# 100
53) Ethylbenzene	10.74	91	182920	4.60	UG	99
54) m,p-Xylene	10.88	106	142182	9.53	UG	94
55) o-Xylene	11.35	106	62981	4.27	UG	88
56) Styrene	11.37	104	107373	4.23	UG	# 100
57) Bromoform	11.59	173	18610	4.19	UG	# 63
58) Isopropylbenzene	11.79	105	164272	4.35	UG	99
60) 1,1,2,2-Tetrachloroethane	12.14	83	51109	5.04	UG	# 69
61) Bromobenzene	12.17	156	40294	4.87	UG	# 100
62) 1,2,3-Trichloropropane	12.20	75	45355	4.94	UG	# 1
63) n-Propylbenzene	12.29	91	226485	4.80	UG	99
64) 2-Chlorotoluene	12.40	91	132023	4.67	UG	100
65) 1,3,5-Trimethylbenzene	12.51	105	149619	4.56	UG	97
66) 4-Chlorotoluene	12.54	91	161177	4.78	UG	98
67) tert-Butylbenzene	12.91	119	109474	4.40	UG	# 1
68) 1,2,4-Trimethylbenzene	12.97	105	152764	4.55	UG	98
69) sec-Butylbenzene	13.18	105	178401	4.55	UG	99
70) 1,3-Dichlorobenzene	13.32	146	83311	5.04	UG	# 100
71) 4-Isopropyltoluene	13.36	119	151110	4.69	UG	# 100
72) 1,4-Dichlorobenzene	13.43	146	82296	4.84	UG	99
73) n-Butylbenzene	13.87	91	134150	4.12	UG	# 98
74) 1,2-Dichlorobenzene	13.89	146	80043	4.87	UG	# 81
75) 1,2-Dibromo-3-chloropropan	14.81	75	7255m	4.15	UG	
76) 1,2,4-Trichlorobenzene	15.73	180	41075	4.10	UG	98
77) Hexachlorobutadiene	15.90	225	18377	5.66	UG	100
78) Naphthalene	15.98	128	83320	3.13	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	41313	4.49	UG	100
80) 1,1,2-Trichloro-1,2,2-trif	3.75	101	35721	5.07	UG	91
81) Methyl acetate	4.19	43	73081	5.11	UG	# 82
82) Cyclohexane	6.46	56	80416	4.53	UG	# 68
83) Methylcyclohexane	7.75	83	58076	4.55	UG	# 44

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Sep 13 10:31:08 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:11:51 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1458.D
 Acq On : 12 Sep 2017 15:48
 Operator : BARBARA
 Sample : ICC020, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 13 10:43:12 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:07:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	703764	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1260145	50.00	UG	0.00
50) Chlorobenzene-d5	10.57	117	1028392	50.00	UG	0.00

System Monitoring Compounds						
30) 1,2-Dichloroethane-d4	6.74	65	596709	50.30	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	100.60%
41) Toluene-d8	8.90	98	1632273	50.43	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.86%
59) Bromofluorobenzene	11.98	95	601239	49.33	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	98.66%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.93	85	101032	18.89	UG	100
3) Chloromethane	2.11	50	251078	20.46	UG	100
4) Vinyl chloride	2.24	62	193479	20.27	UG	99
5) Bromomethane	2.64	94	61464m	17.73	UG	
6) Chloroethane	2.76	64	68072	14.26	UG	# 100
7) Trichlorofluoromethane	3.07	101	118442	14.09	UG	99
8) Acrolein	3.59	56	294103	173.37	UG	# 100
9) 1,1-Dichloroethene	3.74	96	153849	18.98	UG	# 100
10) Acetone	3.78	43	163316	36.43	UG	98
11) Carbon disulfide	3.99	76	339193	16.90	UG	100
12) Vinyl acetate	4.20	43	290688	17.63	UG	# 100
13) Methylene chloride	4.29	84	157185	18.73	UG	# 98
14) Acrylonitrile	4.60	53	825876	173.11	UG	# 100
15) tert-Butyl alcohol (TBA)	4.49	59	33419	33.93	UG	# 100
16) trans-1,2-Dichloroethene	4.64	96	154112	19.08	UG	# 68
17) Methyl tert-butyl ether (M)	4.65	73	434314	16.99	UG	100
18) 1,1-Dichloroethane	5.13	63	335912	18.31	UG	99
19) Diisopropyl ether (DIPE)	5.23	45	749131	17.68	UG	# 75
20) cis-1,2-Dichloroethene	5.81	96	167645	17.91	UG	# 100
21) 2,2-Dichloropropane	5.81	77	141266	17.67	UG	99
22) 2-Butanone (MEK)	5.84	43	186160	33.87	UG	# 94
23) Bromochloromethane	6.08	128	77711	18.42	UG	# 99
24) Tetrahydrofuran	5.24	42	42207	20.13	UG	# 100
25) Chloroform	6.17	83	296187	18.46	UG	99
26) 1,1,1-Trichloroethane	6.39	97	207740	18.27	UG	# 85
27) Carbon tetrachloride	6.58	117	182018	17.45	UG	100
28) 1,1-Dichloropropene	6.57	75	225558	18.11	UG	# 81
29) 1,2-Dichloroethane (EDC)	6.81	62	291647	18.06	UG	# 99
32) Benzene	6.80	78	670863	18.10	UG	100
33) Trichloroethene	7.52	95	164998	18.61	UG	90
34) 1,2-Dichloropropane	7.77	63	200279	17.66	UG	# 100
35) Dibromomethane	7.91	93	102772	17.46	UG	# 37
36) 1,4-Dioxane	7.94	88	145975	1714.59	UG	# 100
37) Bromodichloromethane	8.08	83	227273	17.66	UG	# 98
38) 2-Chloroethyl vinyl ether	8.42	63	229236	32.12	UG	# 95
39) cis-1,3-Dichloropropene	8.59	75	266667	16.53	UG	98
40) 4-Methyl-2-pentanone (MIBK)	8.77	43	407133	32.44	UG	# 96
42) Toluene	8.98	92	406005	17.85	UG	97
43) trans-1,3-Dichloropropene	9.22	75	241846	16.61	UG	# 78

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1458.D
 Acq On : 12 Sep 2017 15:48
 Operator : BARBARA
 Sample : ICC020, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 5 Sample Multiplier: 1

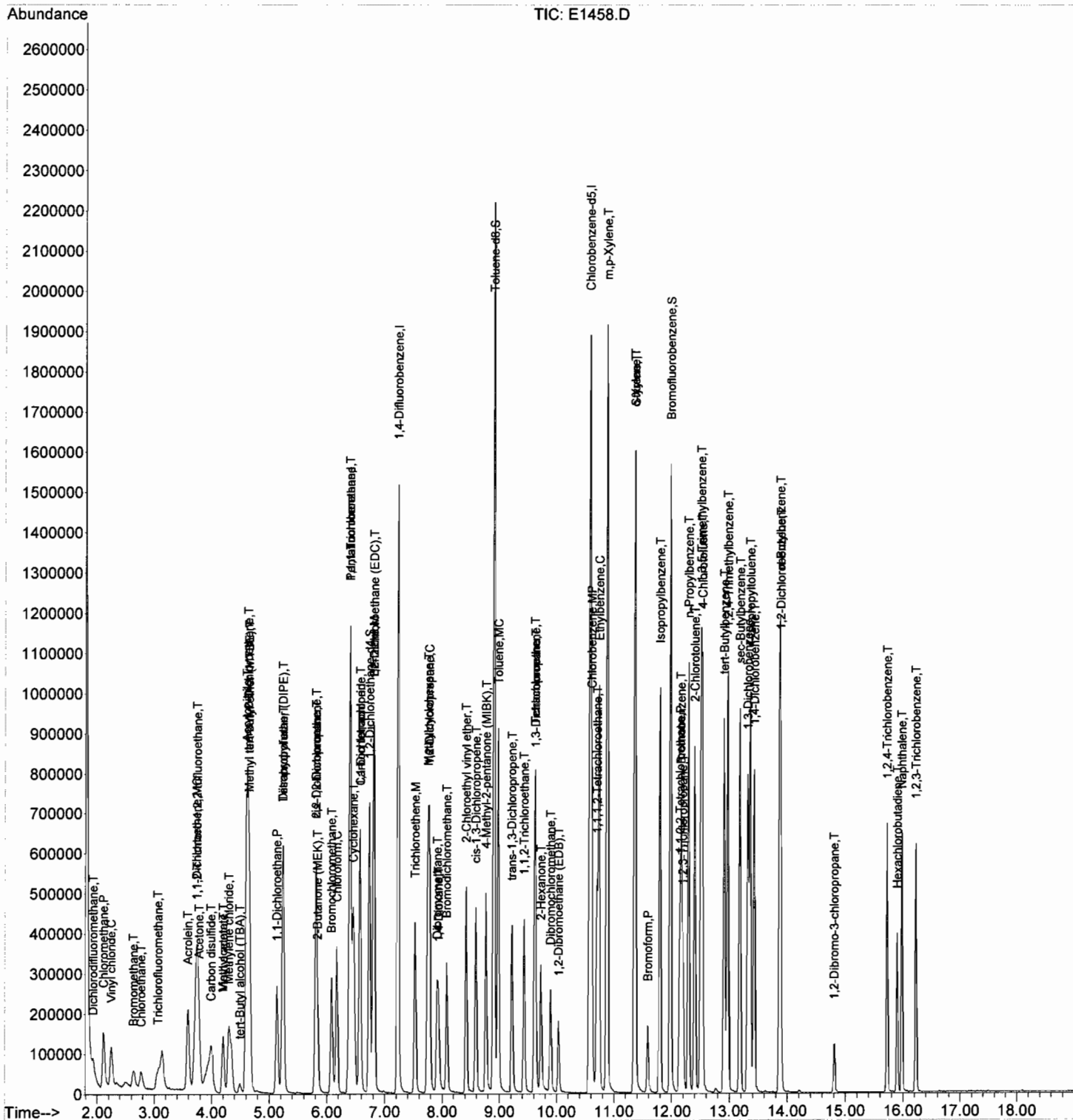
Quant Time: Sep 13 10:43:12 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:07:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,1,2-Trichloroethane	9.43	83	124825	17.57	UG	97
45) Tetrachloroethene	9.61	166	138068	18.35	UG	# 77
46) 1,3-Dichloropropane	9.63	76	265855	17.60	UG	100
47) 2-Hexanone	9.72	43	278863	31.84	UG	# 93
48) Dibromochloromethane	9.89	129	143746	16.77	UG	99
49) 1,2-Dibromoethane (EDB)	10.03	107	135584	17.48	UG	99
51) Chlorobenzene	10.61	112	437428	18.35	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.70	131	146900	17.49	UG	# 100
53) Ethylbenzene	10.74	91	784728	17.76	UG	99
54) m,p-Xylene	10.88	106	588781	35.84	UG	92
55) o-Xylene	11.35	106	285711	17.42	UG	93
56) Styrene	11.37	104	477663	16.71	UG	# 100
57) Bromoform	11.59	173	82554	16.02	UG	# 63
58) Isopropylbenzene	11.80	105	729425	17.34	UG	99
60) 1,1,2,2-Tetrachloroethane	12.14	83	201811	17.41	UG	98
61) Bromobenzene	12.17	156	170069	18.64	UG	# 99
62) 1,2,3-Trichloropropane	12.20	75	182891	17.57	UG	# 1
63) n-Propylbenzene	12.29	91	937856	18.05	UG	98
64) 2-Chlorotoluene	12.40	91	559628	17.73	UG	100
65) 1,3,5-Trimethylbenzene	12.51	105	629472	17.21	UG	98
66) 4-Chlorotoluene	12.54	91	662075	17.70	UG	99
67) tert-Butylbenzene	12.91	119	484452	17.38	UG	# 1
68) 1,2,4-Trimethylbenzene	12.97	105	652033	17.38	UG	99
69) sec-Butylbenzene	13.18	105	758757	17.16	UG	100
70) 1,3-Dichlorobenzene	13.32	146	328016	17.68	UG	# 68
71) 4-Isopropyltoluene	13.36	119	623974	17.23	UG	# 99
72) 1,4-Dichlorobenzene	13.43	146	337960	17.92	UG	99
73) n-Butylbenzene	13.87	91	617895	16.65	UG	98
74) 1,2-Dichlorobenzene	13.89	146	323023	17.47	UG	# 81
75) 1,2-Dibromo-3-chloropropan	14.81	75	32358	15.57	UG	# 79
76) 1,2,4-Trichlorobenzene	15.72	180	180940	15.48	UG	99
77) Hexachlorobutadiene	15.90	225	67633	19.23	UG	100
78) Naphthalene	15.98	128	467539	14.63	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	171669	15.99	UG	100
80) 1,1,2-Trichloro-1,2,2-trif	3.75	101	146605	19.38	UG	93
81) Methyl acetate	4.20	43	290688	17.71	UG	# 81
82) Cyclohexane	6.45	56	371186	19.27	UG	# 71
83) Methylcyclohexane	7.75	83	254054	18.13	UG	# 66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
Data File : E1458.D
Acq On : 12 Sep 2017 15:48
Operator : BARBARA
Sample : ICC020, ICC170912, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 13 10:43:12 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:07:18 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1459.D
 Acq On : 12 Sep 2017 16:18
 Operator : BARBARA
 Sample : ICC100, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 13 10:06:32 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:05:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	749966	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1343564	50.00	UG	0.00
50) Chlorobenzene-d5	10.57	117	1101227	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.74	65	632105	50.00	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	100.00%
41) Toluene-d8	8.90	98	1725344	50.00	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.00%
59) Bromofluorobenzene	11.98	95	652601	50.00	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.93	85	570015	100.00	UG	99
3) Chloromethane	2.11	50	1307808	100.00	UG	100
4) Vinyl chloride	2.25	62	1017163	100.00	UG	99
5) Bromomethane	2.63	94	369349	100.00	UG	100
6) Chloroethane	2.77	64	508707	100.00	UG	# 100
7) Trichlorofluoromethane	3.10	101	895493	100.00	UG	100
8) Acrolein	3.59	56	542318	300.00	UG	# 100
9) 1,1-Dichloroethene	3.73	96	863741	100.00	UG	# 100
10) Acetone	3.79	43	955366	200.00	UG	98
11) Carbon disulfide	3.98	76	2138267	100.00	UG	100
12) Vinyl acetate	4.19	43	1757504	100.00	UG	# 100
13) Methylene chloride	4.30	84	894132	100.00	UG	# 68
14) Acrylonitrile	4.60	53	1525195	300.00	UG	# 100
15) tert-Butyl alcohol (TBA)	4.50	59	209948	200.00	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	860769	100.00	UG	# 68
17) Methyl tert-butyl ether (M	4.66	73	2723673	100.00	UG	100
18) 1,1-Dichloroethane	5.13	63	1955534	100.00	UG	99
19) Diisopropyl ether (DIPE)	5.24	45	4515233	100.00	UG	# 48
20) cis-1,2-Dichloroethene	5.80	96	997459	100.00	UG	# 100
21) 2,2-Dichloropropane	5.81	77	851803	100.00	UG	98
22) 2-Butanone (MEK)	5.83	43	1171514	200.00	UG	# 94
23) Bromochloromethane	6.08	128	449578	100.00	UG	# 100
25) Chloroform	6.17	83	1709429	100.00	UG	98
26) 1,1,1-Trichloroethane	6.39	97	1211967	100.00	UG	# 82
27) Carbon tetrachloride	6.57	117	1111642	100.00	UG	100
28) 1,1-Dichloropropene	6.57	75	1327564	100.00	UG	# 81
29) 1,2-Dichloroethane (EDC)	6.82	62	1720486	100.00	UG	# 86
32) Benzene	6.80	78	3950703	100.00	UG	100
33) Trichloroethene	7.53	95	945090	100.00	UG	91
34) 1,2-Dichloropropane	7.78	63	1208888	100.00	UG	# 100
35) Dibromomethane	7.91	93	627411	100.00	UG	# 37
36) 1,4-Dioxane	7.94	88	272318	3000.00	UG	# 100
37) Bromodichloromethane	8.08	83	1372114	100.00	UG	98
38) 2-Chloroethyl vinyl ether	8.42	63	1521647	200.00	UG	# 95
39) cis-1,3-Dichloropropene	8.59	75	1720338	100.00	UG	98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	2676501	200.00	UG	# 79
42) Toluene	8.98	92	2425530	100.00	UG	98
43) trans-1,3-Dichloropropene	9.22	75	1552130	100.00	UG	# 78
44) 1,1,2-Trichloroethane	9.43	83	757561	100.00	UG	# 53

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1459.D
 Acq On : 12 Sep 2017 16:18
 Operator : BARBARA
 Sample : ICC100, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 6 Sample Multiplier: 1

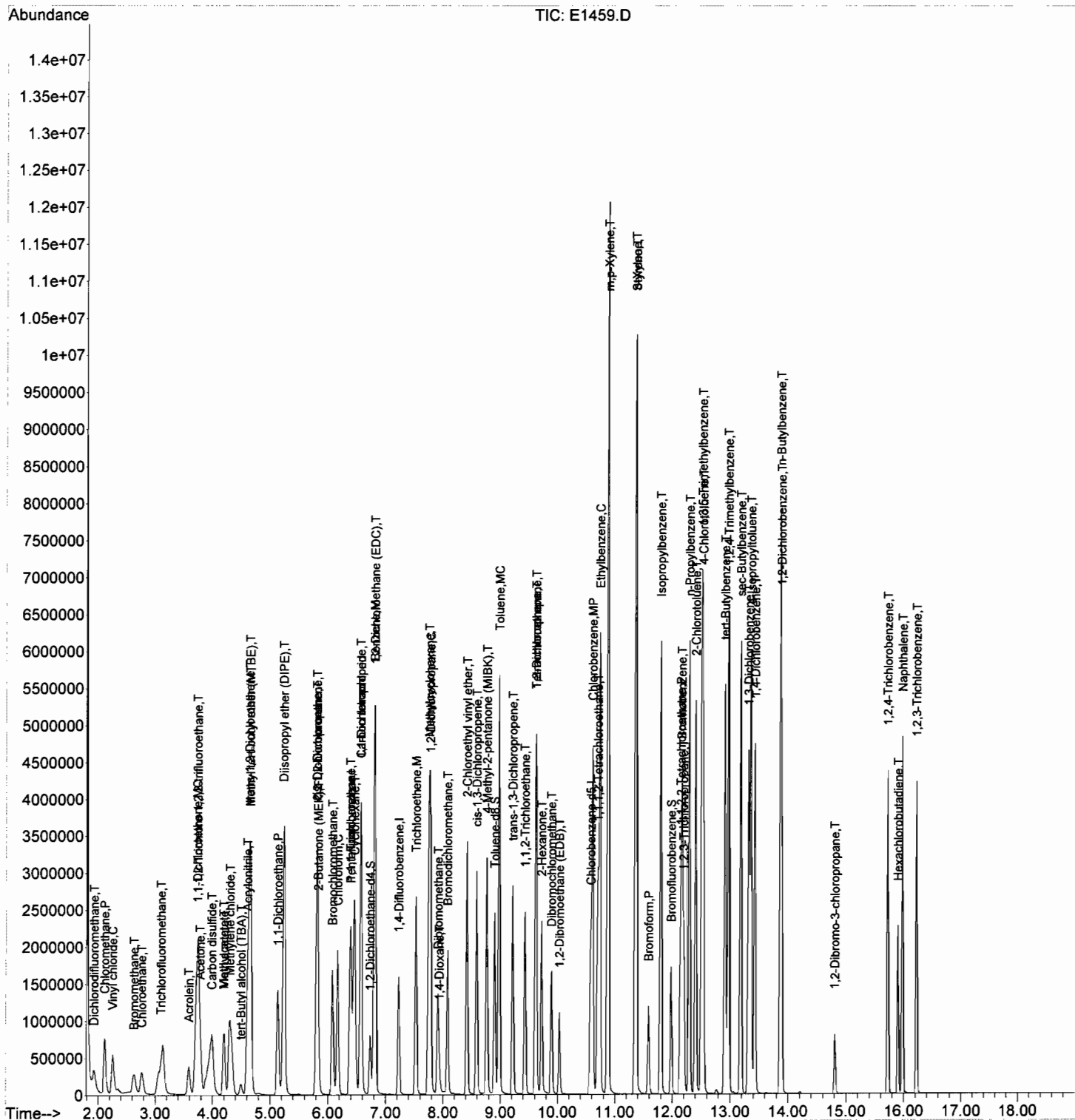
Quant Time: Sep 13 10:06:32 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:05:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Tetrachloroethene	9.61	166	802256	100.00	UG	# 100
46) 1,3-Dichloropropane	9.63	76	1610138	100.00	UG	100
47) 2-Hexanone	9.72	43	1867799	200.00	UG	95
48) Dibromochloromethane	9.89	129	914071	100.00	UG	100
49) 1,2-Dibromoethane (EDB)	10.03	107	826823	100.00	UG	100
51) Chlorobenzene	10.61	112	2552662	100.00	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.71	131	899370	100.00	UG	# 53
53) Ethylbenzene	10.74	91	4731772	100.00	UG	98
54) m,p-Xylene	10.88	106	3518610	200.00	UG	87
55) o-Xylene	11.35	106	1755998	100.00	UG	90
56) Styrene	11.37	104	3061217	100.00	UG	# 100
57) Bromoform	11.59	173	551701	100.00	UG	# 63
58) Isopropylbenzene	11.80	105	4504293	100.00	UG	99
60) 1,1,2,2-Tetrachloroethane	12.14	83	1241425	100.00	UG	97
61) Bromobenzene	12.17	156	976949	100.00	UG	# 100
62) 1,2,3-Trichloropropane	12.20	75	1114450	100.00	UG	# 1
63) n-Propylbenzene	12.29	91	5562686	100.00	UG	98
64) 2-Chlorotoluene	12.40	91	3379773	100.00	UG	99
65) 1,3,5-Trimethylbenzene	12.51	105	3917640	100.00	UG	97
66) 4-Chlorotoluene	12.54	91	4005706	100.00	UG	98
67) tert-Butylbenzene	12.91	119	2984539	100.00	UG	# 1
68) 1,2,4-Trimethylbenzene	12.97	105	4018232	100.00	UG	98
69) sec-Butylbenzene	13.18	105	4734096	100.00	UG	99
70) 1,3-Dichlorobenzene	13.32	146	1986262	100.00	UG	# 99
71) 4-Isopropyltoluene	13.36	119	3878114	100.00	UG	# 100
72) 1,4-Dichlorobenzene	13.43	146	2019488	100.00	UG	99
73) n-Butylbenzene	13.87	91	3974009	100.00	UG	98
74) 1,2-Dichlorobenzene	13.89	146	1979556	100.00	UG	# 81
75) 1,2-Dibromo-3-chloropropan	14.81	75	222489	100.00	UG	# 80
76) 1,2,4-Trichlorobenzene	15.72	180	1251831	100.00	UG	99
77) Hexachlorobutadiene	15.90	225	376625	100.00	UG	100
78) Naphthalene	15.98	128	3421745	100.00	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	1149776	100.00	UG	100
80) 1,1,2-Trichloro-1,2,2-trif	3.75	101	810216	100.00	UG	93
81) Methyl acetate	4.19	43	1757504	100.00	UG	# 82
82) Cyclohexane	6.46	56	2062450	100.00	UG	# 74
83) Methylcyclohexane	7.75	83	1500807	100.00	UG	# 46

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
Data File : E1459.D
Acq On : 12 Sep 2017 16:18
Operator : BARBARA
Sample : ICC100, ICC170912, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 13 10:06:32 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:05:51 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1460.D
 Acq On : 12 Sep 2017 16:48
 Operator : BARBARA
 Sample : ICC150, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 10:11:12 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:08:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	796123	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1409701	50.00	UG	0.00
50) Chlorobenzene-d5	10.57	117	1165937	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	661334	49.13	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	98.26%
41) Toluene-d8	8.90	98	1818699	50.02	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.04%
59) Bromofluorobenzene	11.98	95	691098	50.35	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	100.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	902514	153.42	UG	99
3) Chloromethane	2.11	50	2063381	146.94	UG	100
4) Vinyl chloride	2.25	62	1614879	148.55	UG	99
5) Bromomethane	2.60	94	551179	158.15	UG	99
6) Chloroethane	2.75	64	829978	179.45	UG	# 100
7) Trichlorofluoromethane	3.09	101	1517610	187.30	UG	100
8) Acrolein	3.58	56	699435	390.47	UG	# 100
9) 1,1-Dichloroethene	3.73	96	1356365	151.80	UG	# 100
10) Acetone	3.78	43	1388657	286.63	UG	98
11) Carbon disulfide	3.99	76	3266555	155.98	UG	100
12) Vinyl acetate	4.19	43	2499492	142.43	UG	# 100
13) Methylene chloride	4.30	84	1352985	147.21	UG	# 99
14) Acrylonitrile	4.61	53	1988295	394.97	UG	# 100
15) tert-Butyl alcohol (TBA)	4.50	59	290570	282.18	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	1346275	150.81	UG	# 100
17) Methyl tert-butyl ether (M	4.66	73	4121470	154.14	UG	100
18) 1,1-Dichloroethane	5.13	63	3030547	152.45	UG	99
19) Diisopropyl ether (DIPE)	5.24	45	6991038	154.83	UG	# 48
20) cis-1,2-Dichloroethene	5.80	96	1539156	153.37	UG	# 100
21) 2,2-Dichloropropane	5.81	77	1213323	142.47	UG	99
22) 2-Butanone (MEK)	5.83	43	1693865	295.03	UG	# 94
23) Bromochloromethane	6.08	128	679226	148.17	UG	# 100
25) Chloroform	6.16	83	2628923	150.66	UG	98
26) 1,1,1-Trichloroethane	6.38	97	1814293	147.41	UG	# 82
27) Carbon tetrachloride	6.57	117	1737329	157.25	UG	100
28) 1,1-Dichloropropene	6.57	75	2077572	154.75	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.81	62	2654829	152.75	UG	# 99
32) Benzene	6.80	78	6184189	156.61	UG	100
33) Trichloroethene	7.52	95	1485971	155.23	UG	91
34) 1,2-Dichloropropane	7.78	63	1834853	153.63	UG	# 100
35) Dibromomethane	7.91	93	936194	151.84	UG	# 92
36) 1,4-Dioxane	7.93	88	359384	4063.34	UG	# 100
37) Bromodichloromethane	8.08	83	2146161	158.34	UG	# 68
38) 2-Chloroethyl vinyl ether	8.41	63	2264905	314.71	UG	# 95
39) cis-1,3-Dichloropropene	8.59	75	2619788	158.94	UG	98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	3811034	299.76	UG	# 79
42) Toluene	8.98	92	3728724	154.85	UG	97
43) trans-1,3-Dichloropropene	9.22	75	2417428	162.17	UG	# 78
44) 1,1,2-Trichloroethane	9.43	83	1151563	154.26	UG	95

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1460.D
 Acq On : 12 Sep 2017 16:48
 Operator : BARBARA
 Sample : ICC150,ICC170912,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 7 Sample Multiplier: 1

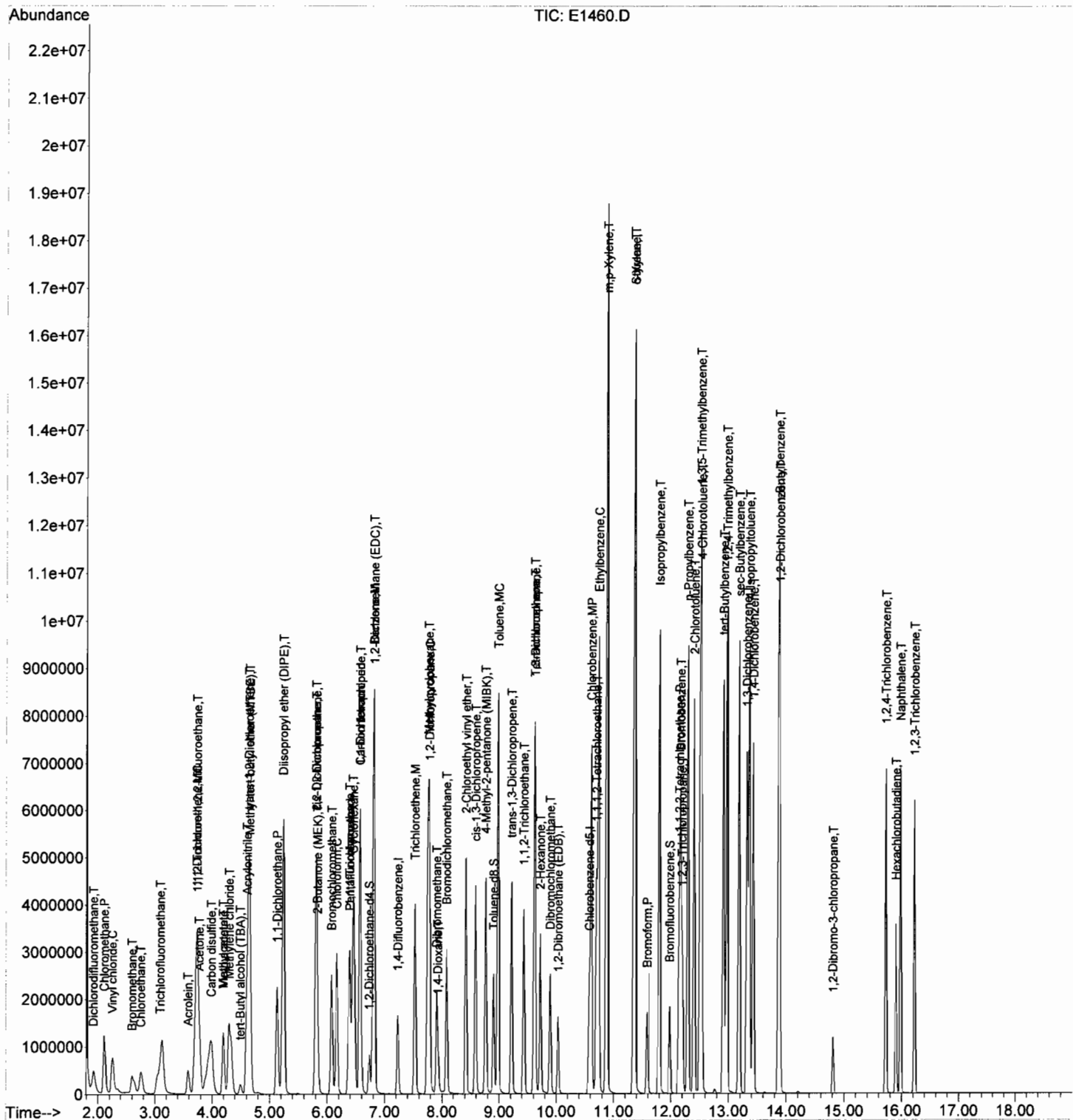
Quant Time: Sep 13 10:11:12 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:08:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Tetrachloroethene	9.61	166	1227991	152.17	UG	# 100
46) 1,3-Dichloropropane	9.63	76	2481353	156.24	UG	100
47) 2-Hexanone	9.72	43	2641935	300.26	UG	95
48) Dibromochloromethane	9.89	129	1401981	159.04	UG	100
49) 1,2-Dibromoethane (EDB)	10.03	107	1261633	155.19	UG	100
51) Chlorobenzene	10.61	112	3997467	154.27	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.71	131	1382763	154.94	UG	# 100
53) Ethylbenzene	10.74	91	7397943	156.43	UG	98
54) m,p-Xylene	10.88	106	5592588	316.73	UG	90
55) o-Xylene	11.36	106	2791200	160.47	UG	91
56) Styrene	11.37	104	4839161	162.69	UG	# 100
57) Bromoform	11.59	173	828215	157.44	UG	# 63
58) Isopropylbenzene	11.80	105	7149676	160.60	UG	99
60) 1,1,2,2-Tetrachloroethane	12.14	83	1812252	147.43	UG	98
61) Bromobenzene	12.17	156	1490000	149.12	UG	# 100
62) 1,2,3-Trichloropropane	12.20	75	1654590	149.28	UG	# 1
63) n-Propylbenzene	12.29	91	8777853	156.66	UG	98
64) 2-Chlorotoluene	12.40	91	5201565	154.10	UG	100
65) 1,3,5-Trimethylbenzene	12.51	105	6219807	161.22	UG	97
66) 4-Chlorotoluene	12.53	91	6281761	157.16	UG	98
67) tert-Butylbenzene	12.91	119	4646720	157.35	UG	# 1
68) 1,2,4-Trimethylbenzene	12.97	105	6283973	158.08	UG	97
69) sec-Butylbenzene	13.18	105	7313454	157.05	UG	99
70) 1,3-Dichlorobenzene	13.32	146	3022760	152.57	UG	# 100
71) 4-Isopropyltoluene	13.36	119	6029027	157.76	UG	# 100
72) 1,4-Dichlorobenzene	13.43	146	3133819	154.61	UG	99
73) n-Butylbenzene	13.87	91	6077576	157.65	UG	98
74) 1,2-Dichlorobenzene	13.89	146	3026857	154.16	UG	# 81
75) 1,2-Dibromo-3-chloropropan	14.81	75	320492	152.98	UG	# 80
76) 1,2,4-Trichlorobenzene	15.72	180	1902403	161.83	UG	100
77) Hexachlorobutadiene	15.90	225	588734	150.54	UG	100
78) Naphthalene	15.98	128	5009355	159.71	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	1702192	155.42	UG	100
80) 1,1,2-Trichloro-1,2,2-trif	3.74	101	1289403	152.69	UG	93
81) Methyl acetate	4.19	43	2499492	142.48	UG	# 82
82) Cyclohexane	6.45	56	3203072	149.40	UG	# 73
83) Methylcyclohexane	7.75	83	2373488	156.71	UG	# 66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
Data File : E1460.D
Acq On : 12 Sep 2017 16:48
Operator : BARBARA
Sample : ICC150, ICC170912, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 10:11:12 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:08:38 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1461.D
 Acq On : 12 Sep 2017 17:18
 Operator : BARBARA
 Sample : ICC200, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 10:26:46 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:24:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	844835	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.22	114	1502491	50.00	UG	0.00
50) Chlorobenzene-d5	10.57	117	1224236	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	700281	48.54	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	97.08%
41) Toluene-d8	8.90	98	1913643	49.77	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.54%
59) Bromofluorobenzene	11.98	95	733280	51.18	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	102.36%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	1300046	212.50	UG	99
3) Chloromethane	2.11	50	3017216	185.15	UG	100
4) Vinyl chloride	2.26	62	2260123	184.73	UG	99
5) Bromomethane	2.60	94	592940	140.42	UG	99
6) Chloroethane	2.77	64	1196431	215.27	UG	# 100
7) Trichlorofluoromethane	3.09	101	1734099m	212.74	UG	
8) Acrolein	3.58	56	1018074	523.86	UG	# 100
9) 1,1-Dichloroethene	3.74	96	2047767	220.01	UG	# 100
10) Acetone	3.79	43	2108218	372.79	UG	98
11) Carbon disulfide	3.99	76	4555443	198.98	UG	100
12) Vinyl acetate	4.20	43	3816893	206.04	UG	# 100
13) Methylene chloride	4.34	84	1931832m	188.45	UG	
14) Acrylonitrile	4.60	53	2874927	536.73	UG	# 100
15) tert-Butyl alcohol (TBA)	4.50	59	477737	413.73	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	1951469	205.03	UG	# 100
17) Methyl tert-butyl ether (M	4.65	73	6266550	229.38	UG	100
18) 1,1-Dichloroethane	5.13	63	4417463	213.04	UG	99
19) Diisopropyl ether (DIPE)	5.24	45	10262402	230.83	UG	# 48
20) cis-1,2-Dichloroethene	5.81	96	2247473	213.61	UG	# 100
21) 2,2-Dichloropropane	5.80	77	1689725	182.45	UG	99
22) 2-Butanone (MEK)	5.83	43	2562885	427.22	UG	# 94
23) Bromochloromethane	6.08	128	1011956	204.73	UG	# 100
24) Tetrahydrofuran	5.24	42	472125	176.31	UG	# 100
25) Chloroform	6.16	83	3895868	212.67	UG	98
26) 1,1,1-Trichloroethane	6.38	97	2562387	192.74	UG	# 82
27) Carbon tetrachloride	6.57	117	2476778	213.43	UG	100
28) 1,1-Dichloropropene	6.57	75	3072081	215.52	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.81	62	3976529	218.87	UG	# 99
32) Benzene	6.80	78	9195812	219.56	UG	100
33) Trichloroethene	7.52	95	2152206	206.09	UG	91
34) 1,2-Dichloropropane	7.77	63	2764853	219.07	UG	# 100
35) Dibromomethane	7.91	93	1395830	212.55	UG	# 91
36) 1,4-Dioxane	7.94	88	517829	5751.91	UG	# 100
37) Bromodichloromethane	8.08	83	3195265	225.60	UG	# 98
38) 2-Chloroethyl vinyl ether	8.41	63	3490095	505.99	UG	# 95
39) cis-1,3-Dichloropropene	8.59	75	3906565	250.51	UG	# 98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	5694170	470.48	UG	96
42) Toluene	8.98	92	5597479	218.14	UG	96
43) trans-1,3-Dichloropropene	9.22	75	3656553	250.31	UG	# 78

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1461.D
 Acq On : 12 Sep 2017 17:18
 Operator : BARBARA
 Sample : ICC200, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 8 Sample Multiplier: 1

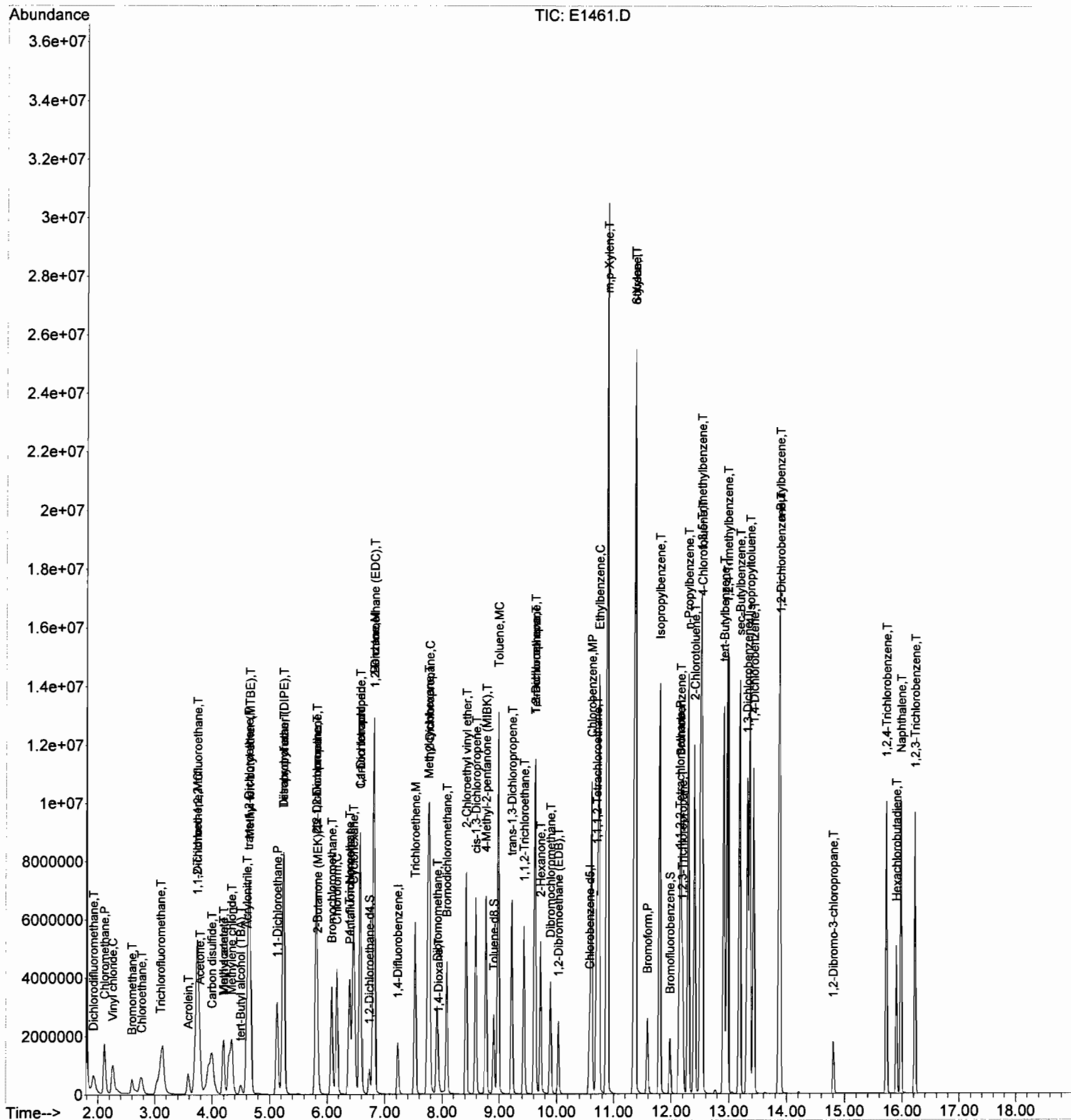
Quant Time: Sep 13 10:26:46 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:24:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,1,2-Trichloroethane	9.43	83	1699887	211.90	UG	95
45) Tetrachloroethene	9.61	166	1818993	201.48	UG	# 100
46) 1,3-Dichloropropane	9.63	76	3696087	227.27	UG	100
47) 2-Hexanone	9.72	43	4089567	459.57	UG	94
48) Dibromochloromethane	9.89	129	2090575	225.19	UG	99
49) 1,2-Dibromoethane (EDB)	10.03	107	1903820	235.25	UG	100
51) Chlorobenzene	10.61	112	5924236	208.85	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.71	131	2060055	226.08	UG	# 53
53) Ethylbenzene	10.74	91	11150654	227.85	UG	98
54) m,p-Xylene	10.88	106	8521958	473.32	UG	94
55) o-Xylene	11.36	106	4074055	243.18	UG	86
56) Styrene	11.37	104	7433845	267.13	UG	# 100
57) Bromoform	11.59	173	1229467	237.25	UG	# 63
58) Isopropylbenzene	11.80	105	10469804	243.46	UG	99
60) 1,1,2,2-Tetrachloroethane	12.14	83	2759126	204.74	UG	98
61) Bromobenzene	12.17	156	2242873	211.99	UG	# 99
62) 1,2,3-Trichloropropane	12.20	75	2490176	204.82	UG	# 1
63) n-Propylbenzene	12.29	91	13028742	223.17	UG	98
64) 2-Chlorotoluene	12.40	91	7699655	222.40	UG	99
65) 1,3,5-Trimethylbenzene	12.51	105	9120959	238.09	UG	97
66) 4-Chlorotoluene	12.54	91	9502448	230.68	UG	98
67) tert-Butylbenzene	12.91	119	6961781	247.54	UG	# 1
68) 1,2,4-Trimethylbenzene	12.97	105	9416904	228.40	UG	97
69) sec-Butylbenzene	13.19	105	11068055	242.99	UG	99
70) 1,3-Dichlorobenzene	13.32	146	4523873	216.85	UG	# 99
71) 4-Isopropyltoluene	13.36	119	9013784	241.96	UG	# 100
72) 1,4-Dichlorobenzene	13.43	146	4677814	220.85	UG	99
73) n-Butylbenzene	13.87	91	9226962	253.76	UG	98
74) 1,2-Dichlorobenzene	13.89	146	4367754	220.78	UG	# 81
75) 1,2-Dibromo-3-chloropropan	14.81	75	494132	232.09	UG	# 81
76) 1,2,4-Trichlorobenzene	15.72	180	2820969	243.02	UG	100
77) Hexachlorobutadiene	15.90	225	869166	205.12	UG	100
78) Naphthalene	15.98	128	7459948	265.11	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	2576302	239.77	UG	99
80) 1,1,2-Trichloro-1,2,2-trif	3.74	101	1890541	214.64	UG	92
81) Methyl acetate	4.20	43	3816893	201.95	UG	# 82
82) Cyclohexane	6.45	56	4683543	196.84	UG	# 74
83) Methylcyclohexane	7.75	83	3479953	202.73	UG	# 65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
Data File : E1461.D
Acq On : 12 Sep 2017 17:18
Operator : BARBARA
Sample : ICC200, ICC170912, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 10:26:46 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:24:18 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1463.D
 Acq On : 12 Sep 2017 18:18
 Operator : BARBARA
 Sample : ICV100,ICV170912,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 10:49:07 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2 T	Dichlorodifluoromethane	0.366	0.361	1.4	103	0.00
3 P	Chloromethane	0.954	0.870	8.8	108	0.00
4 C	Vinyl chloride	0.715	0.680	4.9	109	0.01
5 T	Bromomethane	0.227	0.223	1.8	98	-0.01
6 T	Chloroethane	0.333	0.322	3.3	103	-0.03
7 T	Trichlorofluoromethane	0.526	0.588	-11.8	107	0.05
8 T	Acrolein	0.116	0.108	6.9	97	0.00
9 MC	1,1-Dichloroethene	0.559	0.561	-0.4	106	0.01
10 T	Acetone	0.331	0.288	13.0	98	-0.01
11 T	Carbon disulfide	1.354	1.284	5.2	98	0.01
12 T	Vinyl acetate	1.102	1.010	8.3	94	0.00
13 T	Methylene chloride	0.601	0.573	4.7	104	-0.02
14 T	Acrylonitrile	0.320	0.314	1.9	101	0.00
15 T	tert-Butyl alcohol (TBA)	0.069	0.061	11.6	94	0.00
16 T	trans-1,2-Dichloroethene	0.565	0.560	0.9	106	-0.01
17 T	Methyl tert-butyl ether (MT)	1.651	1.687	-2.2	101	-0.01
18 P	1,1-Dichloroethane	1.239	1.274	-2.8	106	0.00
19 T	Diisopropyl ether (DIPE)	2.689	2.897	-7.7	105	0.00
20 T	cis-1,2-Dichloroethene	0.629	0.652	-3.7	106	-0.02
21 T	2,2-Dichloropropane	0.540	0.490	9.3	94	0.00
22 T	2-Butanone (MEK)	0.359	0.340	5.3	95	-0.01
23 T	Bromochloromethane	0.294	0.292	0.7	106	-0.02
25 C	Chloroform	1.094	1.113	-1.7	106	0.00
26 T	1,1,1-Trichloroethane	0.783	0.767	2.0	103	0.00
27 T	Carbon tetrachloride	0.693	0.708	-2.2	104	-0.01
28 T	1,1-Dichloropropene	0.853	0.846	0.8	104	-0.01
29 T	1,2-Dichloroethane (EDC)	1.090	1.086	0.4	103	0.00
30 S	1,2-Dichloroethane-d4	0.850	0.838	1.4	108	0.00
31 I	1,4-Difluorobenzene	1.000	1.000	0.0	107	0.00
32 M	Benzene	1.413	1.460	-3.3	106	0.00
33 M	Trichloroethene	0.349	0.352	-0.9	107	0.00
34 C	1,2-Dichloropropane	0.426	0.434	-1.9	103	-0.01
35 T	Dibromomethane	0.221	0.224	-1.4	103	-0.02
36 T	1,4-Dioxane	0.003	0.003	0.0	100	-0.01
37 T	Bromodichloromethane	0.480	0.498	-3.8	104	0.00
38 T	2-Chloroethyl vinyl ether	0.240	0.267	-11.3	101	-0.13
39 T	cis-1,3-Dichloropropene	0.538	0.621	-15.4	104	-0.02
40 T	4-Methyl-2-pentanone (MIBK)	0.415	0.429	-3.4	92	0.00
41 S	Toluene-d8	1.279	1.311	-2.5	109	0.00
42 MC	Toluene	0.865	0.878	-1.5	104	0.00
43 T	trans-1,3-Dichloropropene	0.504	0.558	-10.7	103	-0.01
44 T	1,1,2-Trichloroethane	0.270	0.267	1.1	101	-0.02
45 T	Tetrachloroethene	0.288	0.287	0.3	103	0.00
46 T	1,3-Dichloropropane	0.552	0.570	-3.3	102	0.00

47	T	2-Hexanone	0.303	0.303	0.0	93	-0.04
48	T	Dibromochloromethane	0.315	0.322	-2.2	101	-0.02
49	T	1,2-Dibromoethane (EDB)	0.276	0.293	-6.2	102	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
51	MP	Chlorobenzene	1.166	1.115	4.4	104	0.00
52	T	1,1,1,2-Tetrachloroethane	0.379	0.389	-2.6	103	-0.01
53	C	Ethylbenzene	2.039	2.069	-1.5	104	0.00
54	T	m,p-Xylene	0.755	0.776	-2.8	105	0.00
55	T	o-Xylene	0.705	0.759	-7.7	103	0.00
56	T	Styrene	1.213	1.341	-10.6	105	0.00
57	P	Bromoform	0.217	0.225	-3.7	97	0.00
58	T	Isopropylbenzene	1.811	1.947	-7.5	103	0.00
59	S	Bromofluorobenzene	0.587	0.594	-1.2	109	0.00
60	P	1,1,2,2-Tetrachloroethane	0.552	0.501	9.2	96	0.00
61	T	Bromobenzene	0.436	0.419	3.9	102	0.00
62	T	1,2,3-Trichloropropane	0.498	0.462	7.2	99	-0.02
63	T	n-Propylbenzene	2.424	2.423	0.0	104	0.00
64	T	2-Chlorotoluene	1.437	1.445	-0.6	102	0.00
65	T	1,3,5-Trimethylbenzene	1.607	1.690	-5.2	103	0.00
66	T	4-Chlorotoluene	1.719	1.715	0.2	102	0.00
67	T	tert-Butylbenzene	1.188	1.287	-8.3	103	-0.01
68	T	1,2,4-Trimethylbenzene	1.724	1.708	0.9	101	0.00
69	T	sec-Butylbenzene	1.917	2.005	-4.6	101	0.00
70	T	1,3-Dichlorobenzene	0.862	0.841	2.4	101	-0.01
71	T	4-Isopropyltoluene	1.567	1.647	-5.1	101	0.00
72	T	1,4-Dichlorobenzene	0.878	0.863	1.7	102	-0.01
73	T	n-Butylbenzene	1.542	1.656	-7.4	99	-0.01
74	T	1,2-Dichlorobenzene	0.820	0.839	-2.3	101	-0.01
75	T	1,2-Dibromo-3-chloropropane	0.089	0.086	3.4	93	-0.01
76	T	1,2,4-Trichlorobenzene	0.489	0.517	-5.7	99	0.00
77	T	Hexachlorobutadiene	0.174	0.161	7.5	102	0.00
78	T	Naphthalene	1.212	1.333	-10.0	93	0.00
79	T	1,2,3-Trichlorobenzene	0.451	0.465	-3.1	97	0.00
80	T	1,1,2-Trichloro-1,2,2-trifl	0.364	0.353	3.0	104	0.01
81	T	Methyl acetate	0.773	0.690	10.7	94	0.00
82	T	Cyclohexane	0.969	0.881	9.1	102	0.01
83	T	Methylcyclohexane	0.703	0.651	7.4	104	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

E8091217.M Thu Sep 14 11:01:25 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1463.D
 Acq On : 12 Sep 2017 18:18
 Operator : BARBARA
 Sample : ICV100,ICV170912,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 10:49:07 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	814558	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1437084	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	1192727	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.74	65	682463	49.27	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	98.54%
41) Toluene-d8	8.91	98	1884378	51.28	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.56%
59) Bromofluorobenzene	11.98	95	708648	50.59	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	101.18%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.93	85	587837	98.63	UG	99
3) Chloromethane	2.11	50	1417279	91.17	UG	100
4) Vinyl chloride	2.25	62	1107570	95.10	UG	99
5) Bromomethane	2.63	94	363415	98.06	UG	99
6) Chloroethane	2.77	64	524995	96.91	UG	# 100
7) Trichlorofluoromethane	3.10	101	957851	111.88	UG	# 88
8) Acrolein	3.58	56	528439	280.11	UG	# 100
9) 1,1-Dichloroethene	3.73	96	914391	100.46	UG	# 100
10) Acetone	3.78	43	937331	173.88	UG	98
11) Carbon disulfide	3.99	76	2092054	94.84	UG	100
12) Vinyl acetate	4.20	43	1645888	91.69	UG	# 100
13) Methylene chloride	4.30	84	933528	95.37	UG	# 98
14) Acrylonitrile	4.61	53	1534796	294.10	UG	# 100
15) tert-Butyl alcohol (TBA)	4.49	59	197196	176.12	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	912798	99.11	UG	# 100
17) Methyl tert-butyl ether (M	4.65	73	2747734	102.17	UG	100
18) 1,1-Dichloroethane	5.13	63	2076249	102.90	UG	99
19) Diisopropyl ether (DIPE)	5.23	45	4719265	107.72	UG	# 48
20) cis-1,2-Dichloroethene	5.81	96	1062065	103.69	UG	# 100
21) 2,2-Dichloropropane	5.81	77	797864	90.68	UG	99
22) 2-Butanone (MEK)	5.83	43	1108799	189.55	UG	# 86
23) Bromochloromethane	6.08	128	476422	99.58	UG	# 100
25) Chloroform	6.17	83	1813086	101.73	UG	99
26) 1,1,1-Trichloroethane	6.38	97	1250305	98.05	UG	# 91
27) Carbon tetrachloride	6.57	117	1152607	102.04	UG	100
28) 1,1-Dichloropropene	6.57	75	1378961	99.24	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.82	62	1768866	99.63	UG	# 99
32) Benzene	6.80	78	4195219	103.28	UG	100
33) Trichloroethene	7.53	95	1011914	100.87	UG	90
34) 1,2-Dichloropropane	7.78	63	1247321	101.94	UG	# 100
35) Dibromomethane	7.91	93	643629	101.41	UG	# 91
36) 1,4-Dioxane	7.93	88	271857	3090.76	UG	# 100
37) Bromodichloromethane	8.08	83	1429985	103.66	UG	98
38) 2-Chloroethyl vinyl ether	8.42	63	1536190	223.00	UG	# 95
39) cis-1,3-Dichloropropene	8.59	75	1784901	115.50	UG	# 98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	2463169	206.71	UG	96
42) Toluene	8.98	92	2523878	101.52	UG	97
43) trans-1,3-Dichloropropene	9.22	75	1604789	110.87	UG	# 78
44) 1,1,2-Trichloroethane	9.43	83	766944	98.97	UG	96

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1463.D
 Acq On : 12 Sep 2017 18:18
 Operator : BARBARA
 Sample : ICV100,ICV170912,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 10 Sample Multiplier: 1

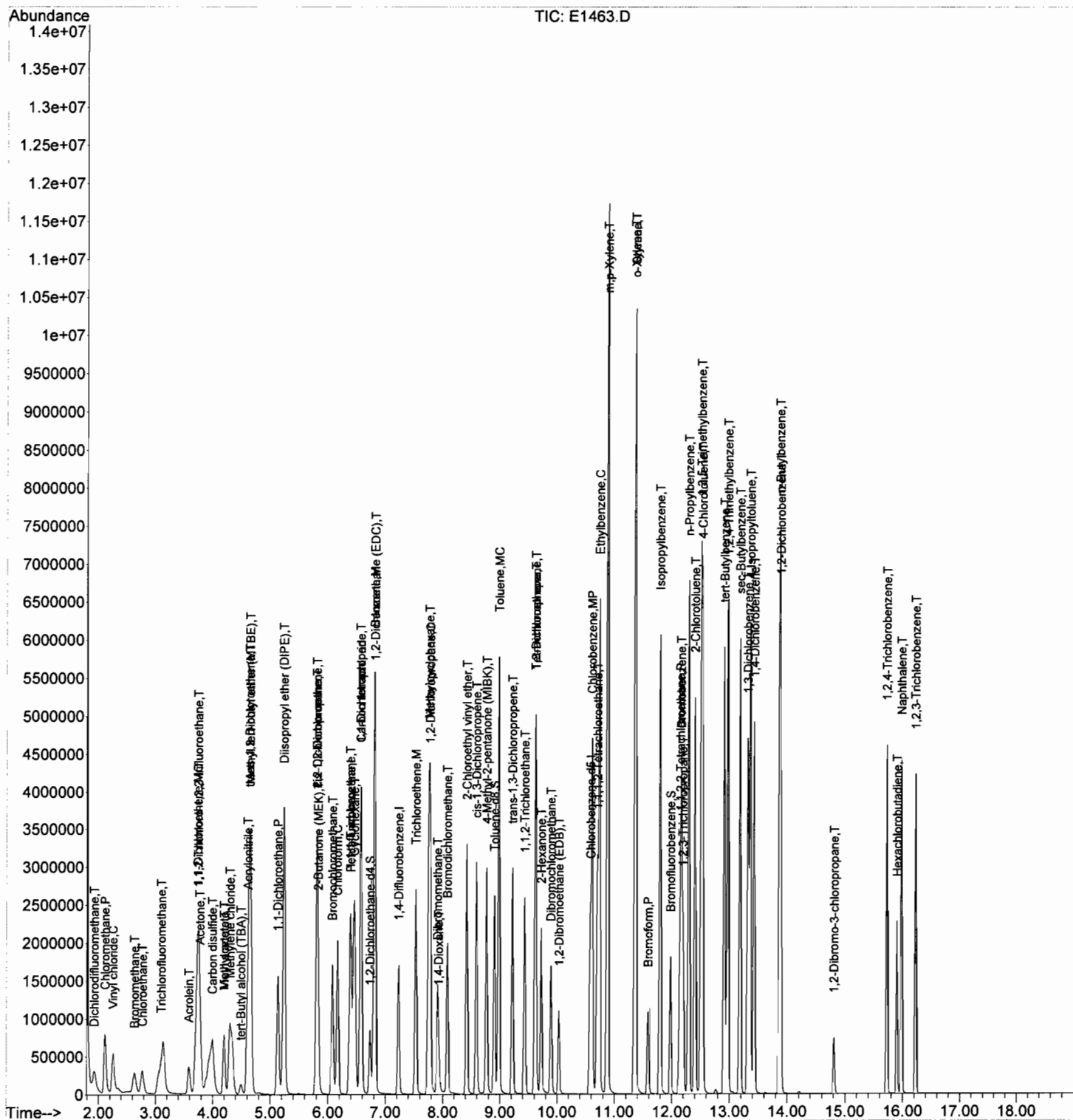
Quant Time: Sep 13 10:49:07 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Tetrachloroethene	9.61	166	825906	99.70	UG	# 100
46) 1,3-Dichloropropane	9.63	76	1637924	103.29	UG	100
47) 2-Hexanone	9.72	43	1743429	199.88	UG	95
48) Dibromochloromethane	9.89	129	926641	102.21	UG	100
49) 1,2-Dibromoethane (EDB)	10.03	107	841480	106.04	UG	100
51) Chlorobenzene	10.61	112	2659711	95.64	UG	# 73
52) 1,1,1,2-Tetrachloroethane	10.70	131	928624	102.69	UG	# 100
53) Ethylbenzene	10.74	91	4936247	101.51	UG	98
54) m,p-Xylene	10.88	106	3702057	205.66	UG	91
55) o-Xylene	11.35	106	1810739	107.62	UG	91
56) Styrene	11.37	104	3199180	110.52	UG	# 100
57) Bromoform	11.59	173	536143	103.44	UG	# 63
58) Isopropylbenzene	11.79	105	4645378	107.54	UG	99
60) 1,1,2,2-Tetrachloroethane	12.14	83	1195222	90.73	UG	98
61) Bromobenzene	12.17	156	1000694	96.26	UG	# 100
62) 1,2,3-Trichloropropane	12.19	75	1100929	92.63	UG	# 1
63) n-Propylbenzene	12.29	91	5779385	99.96	UG	98
64) 2-Chlorotoluene	12.40	91	3447589	100.60	UG	100
65) 1,3,5-Trimethylbenzene	12.51	105	4031422	105.15	UG	97
66) 4-Chlorotoluene	12.53	91	4090865	99.75	UG	98
67) tert-Butylbenzene	12.91	119	3070208	108.37	UG	# 1
68) 1,2,4-Trimethylbenzene	12.97	105	4073551	99.07	UG	98
69) sec-Butylbenzene	13.18	105	4782140	104.55	UG	99
70) 1,3-Dichlorobenzene	13.32	146	2005946	97.52	UG	# 99
71) 4-Isopropyltoluene	13.36	119	3929867	105.12	UG	# 90
72) 1,4-Dichlorobenzene	13.43	146	2057541	98.24	UG	99
73) n-Butylbenzene	13.86	91	3949237	107.36	UG	98
74) 1,2-Dichlorobenzene	13.89	146	2002525	102.38	UG	# 81
75) 1,2-Dibromo-3-chloropropan	14.81	75	206186	96.81	UG	# 80
76) 1,2,4-Trichlorobenzene	15.72	180	1234241	105.88	UG	99
77) Hexachlorobutadiene	15.90	225	384522	92.80	UG	100
78) Naphthalene	15.98	128	3179639	110.01	UG	100
79) 1,2,3-Trichlorobenzene	16.23	180	1110109	103.11	UG	99
80) 1,1,2-Trichloro-1,2,2-trif	3.75	101	842323	96.98	UG	92
81) Methyl acetate	4.20	43	1645888	89.26	UG	# 83
82) Cyclohexane	6.46	56	2100583	90.85	UG	# 75
83) Methylcyclohexane	7.75	83	1554067	92.72	UG	# 66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
Data File : E1463.D
Acq On : 12 Sep 2017 18:18
Operator : BARBARA
Sample : ICV100,ICV170912,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 10:49:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1526.D
 Acq On : 18 Sep 2017 12:14
 Operator : BARBARA
 Sample : CCV100,CCV170918,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 12:42:08 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	96	0.00
2 T	Dichlorodifluoromethane	0.366	0.382	-4.4	97	-0.01
3 P	Chloromethane	0.954	0.881	7.7	97	0.00
4 C	Vinyl chloride	0.715	0.758	-6.0	107	0.01
5 T	Bromomethane	0.227	0.263	-15.9	103	0.00
6 T	Chloroethane	0.333	0.351	-5.4	99	-0.03
7 T	Trichlorofluoromethane	0.526	0.593	-12.7	95	0.03
9 MC	1,1-Dichloroethene	0.559	0.587	-5.0	98	0.00
10 T	Acetone	0.331	0.318	3.9	96	0.00
11 T	Carbon disulfide	1.354	1.514	-11.8	102	0.00
12 T	Vinyl acetate	1.102	0.980	11.1	80	0.00
13 T	Methylene chloride	0.601	0.616	-2.5	99	-0.02
14 T	Acrylonitrile	0.320	0.314	1.9	89	0.00
15 T	tert-Butyl alcohol (TBA)	0.069	0.063	8.7	86	0.00
16 T	trans-1,2-Dichloroethene	0.565	0.589	-4.2	99	-0.01
17 T	Methyl tert-butyl ether (MT)	1.651	1.801	-9.1	95	0.00
18 P	1,1-Dichloroethane	1.239	1.321	-6.6	97	0.00
19 T	Diisopropyl ether (DIPE)	2.689	3.116	-15.9	100	0.00
20 T	cis-1,2-Dichloroethene	0.629	0.664	-5.6	96	-0.02
21 T	2,2-Dichloropropane	0.540	0.610	-13.0	103	0.00
22 T	2-Butanone (MEK)	0.359	0.377	-5.0	93	0.00
23 T	Bromochloromethane	0.294	0.304	-3.4	98	-0.02
25 C	Chloroform	1.094	1.151	-5.2	97	0.00
26 T	1,1,1-Trichloroethane	0.783	0.823	-5.1	98	0.00
27 T	Carbon tetrachloride	0.693	0.762	-10.0	99	-0.01
28 T	1,1-Dichloropropene	0.853	0.881	-3.3	96	0.00
29 T	1,2-Dichloroethane (EDC)	1.090	1.121	-2.8	94	0.00
30 S	1,2-Dichloroethane-d4	0.850	0.804	5.4	92	0.00
31 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
32 M	Benzene	1.413	1.494	-5.7	97	0.00
33 M	Trichloroethene	0.349	0.344	1.4	93	0.00
34 C	1,2-Dichloropropane	0.426	0.438	-2.8	93	-0.01
35 T	Dibromomethane	0.221	0.226	-2.3	92	-0.01
36 T	1,4-Dioxane	0.003	0.003	0.0	88	0.00
37 T	Bromodichloromethane	0.480	0.516	-7.5	96	0.00
39 T	cis-1,3-Dichloropropene	0.538	0.629	-16.9	94	-0.02
40 T	4-Methyl-2-pentanone (MIBK)	0.415	0.469	-13.0	90	0.00
41 S	Toluene-d8	1.279	1.277	0.2	95	0.00
42 MC	Toluene	0.865	0.897	-3.7	95	0.00
43 T	trans-1,3-Dichloropropene	0.504	0.567	-12.5	94	0.00
44 T	1,1,2-Trichloroethane	0.270	0.271	-0.4	92	-0.02
45 T	Tetrachloroethene	0.288	0.295	-2.4	94	0.00
46 T	1,3-Dichloropropane	0.552	0.585	-6.0	93	0.00
47 T	2-Hexanone	0.303	0.337	-11.2	93	-0.03
48 T	Dibromochloromethane	0.315	0.335	-6.3	94	-0.01

49	T	1,2-Dibromoethane (EDB)	0.276	0.298	-8.0	92	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
51	MP	Chlorobenzene	1.166	1.149	1.5	95	0.00
52	T	1,1,1,2-Tetrachloroethane	0.379	0.400	-5.5	94	0.00
53	C	Ethylbenzene	2.039	2.206	-8.2	98	0.00
54	T	m,p-Xylene	0.755	0.817	-8.2	98	0.00
55	T	o-Xylene	0.705	0.789	-11.9	95	0.00
56	T	Styrene	1.213	1.402	-15.6	97	0.00
57	P	Bromoform	0.217	0.240	-10.6	92	0.00
58	T	Isopropylbenzene	1.811	2.069	-14.2	97	0.00
59	S	Bromofluorobenzene	0.587	0.605	-3.1	98	0.00
60	P	1,1,2,2-Tetrachloroethane	0.552	0.539	2.4	92	0.00
61	T	Bromobenzene	0.436	0.440	-0.9	95	0.00
62	T	1,2,3-Trichloropropane	0.498	0.483	3.0	91	-0.01
63	T	n-Propylbenzene	2.424	2.565	-5.8	97	0.00
64	T	2-Chlorotoluene	1.437	1.511	-5.1	94	0.00
65	T	1,3,5-Trimethylbenzene	1.607	1.726	-7.4	93	0.00
66	T	4-Chlorotoluene	1.719	1.831	-6.5	96	0.00
67	T	tert-Butylbenzene	1.188	1.368	-15.2	97	0.00
68	T	1,2,4-Trimethylbenzene	1.724	1.821	-5.6	96	0.00
69	T	sec-Butylbenzene	1.917	2.150	-12.2	96	0.00
70	T	1,3-Dichlorobenzene	0.862	0.899	-4.3	96	0.00
71	T	4-Isopropyltoluene	1.567	1.793	-14.4	98	0.00
72	T	1,4-Dichlorobenzene	0.878	0.889	-1.3	93	-0.01
73	T	n-Butylbenzene	1.542	1.804	-17.0	96	0.00
74	T	1,2-Dichlorobenzene	0.820	0.882	-7.6	94	-0.01
75	T	1,2-Dibromo-3-chloropropane	0.089	0.094	-5.6	89	0.00
76	T	1,2,4-Trichlorobenzene	0.489	0.582	-19.0	98	0.00
77	T	Hexachlorobutadiene	0.174	0.185	-6.3	104	0.00
78	T	Naphthalene	1.212	1.449	-19.6	89	0.00
79	T	1,2,3-Trichlorobenzene	0.451	0.519	-15.1	95	0.00
80	T	1,1,2-Trichloro-1,2,2-trifl	0.364	0.407	-11.8	106	0.00
81	T	Methyl acetate	0.773	0.669	13.5	80	0.00
82	T	Cyclohexane	0.969	0.976	-0.7	100	0.02
83	T	Methylcyclohexane	0.703	0.719	-2.3	101	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

E8091217.M Tue Sep 19 13:55:14 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1526.D
 Acq On : 18 Sep 2017 12:14
 Operator : BARBARA
 Sample : CCV100,CCV170918,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 02 15:01:01 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	6.41	168	720990	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1281681	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	1055527	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	579401	47.26	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	94.52%
41) Toluene-d8	8.90	98	1636846	49.94	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.88%
59) Bromofluorobenzene	11.98	95	638584	51.52	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	103.04%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	550152	104.29	UG	99
3) Chloromethane	2.11	50	1270175	92.31	UG	100
4) Vinyl chloride	2.25	62	1093336	106.06	UG	99
5) Bromomethane	2.64	94	379697	115.74	UG	100
6) Chloroethane	2.77	64	505551	105.44	UG	# 100
7) Trichlorofluoromethane	3.08	101	854583	112.77	UG	99
8) Acrolein	3.60	56	386933	231.72	UG	# 100
9) 1,1-Dichloroethene	3.72	96	846276	105.04	UG	# 100
10) Acetone	3.79	43	916559	192.09	UG	98
11) Carbon disulfide	3.99	76	2182949	111.81	UG	99
12) Vinyl acetate	4.20	43	1412966	88.93	UG	# 100
13) Methylene chloride	4.30	84	888169	102.51	UG	# 99
14) Acrylonitrile	4.60	53	1358912	294.19	UG	# 100
15) tert-Butyl alcohol (TBA)	4.49	59	180344	181.97	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	849767	104.24	UG	# 100
17) Methyl tert-butyl ether (M	4.66	73	2597650	109.13	UG	100
18) 1,1-Dichloroethane	5.14	63	1904731	106.65	UG	# 96
19) Diisopropyl ether (DIPE)	5.24	45	4493825	115.89	UG	# 83
20) cis-1,2-Dichloroethene	5.80	96	957253	105.58	UG	# 100
21) 2,2-Dichloropropane	5.81	77	880205	113.02	UG	98
22) 2-Butanone (MEK)	5.84	43	1087185	209.98	UG	# 86
23) Bromochloromethane	6.08	128	438824	103.62	UG	# 99
25) Chloroform	6.17	83	1660013	105.23	UG	99
26) 1,1,1-Trichloroethane	6.38	97	1186516	105.12	UG	# 91
27) Carbon tetrachloride	6.57	117	1098749	109.89	UG	100
28) 1,1-Dichloropropene	6.57	75	1270522	103.30	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.82	62	1616027	102.84	UG	# 99
32) Benzene	6.80	78	3830300	105.73	UG	100
33) Trichloroethene	7.53	95	880901	98.46	UG	# 63
34) 1,2-Dichloropropane	7.78	63	1123686	102.97	UG	# 100
35) Dibromomethane	7.91	93	579364	102.35	UG	# 92
36) 1,4-Dioxane	7.94	88	240446	3065.10	UG	99
37) Bromodichloromethane	8.08	83	1321580	107.42	UG	# 68
39) cis-1,3-Dichloropropene	8.59	75	1611981	116.96	UG	# 98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	2402730	226.09	UG	# 96
42) Toluene	8.97	92	2300229	103.74	UG	# 97
43) trans-1,3-Dichloropropene	9.22	75	1454665	112.69	UG	# 70

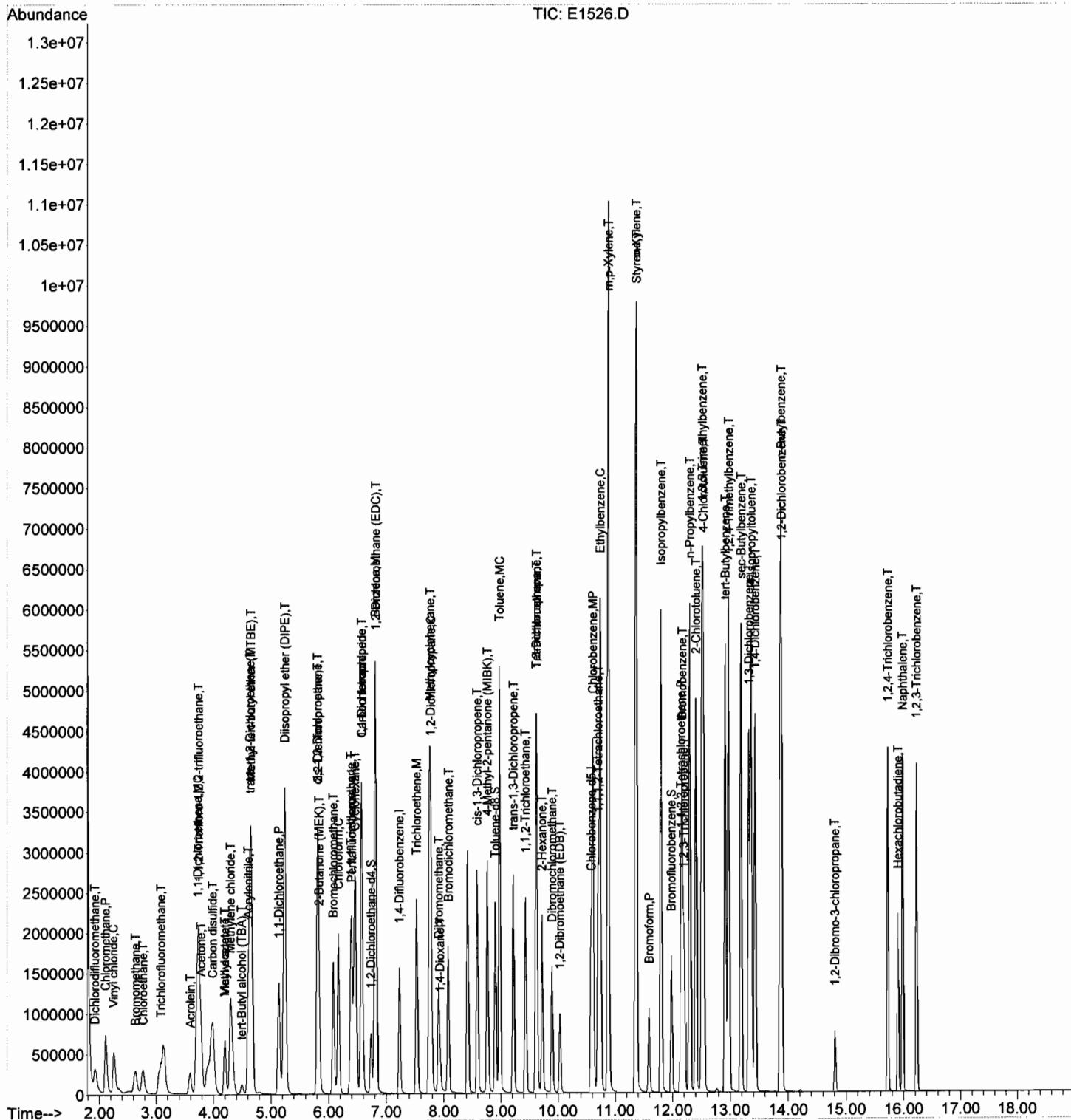
44)	1,1,2-Trichloroethane	9.43	83	695559	100.64	UG		96
45)	Tetrachloroethene	9.61	166	755854	102.31	UG	#	100
46)	1,3-Dichloropropane	9.63	76	1499299	106.01	UG		100
47)	2-Hexanone	9.72	43	1728708	222.22	UG		95
48)	Dibromochloromethane	9.90	129	857902	106.10	UG		100
49)	1,2-Dibromoethane (EDB)	10.03	107	763893	107.94	UG		100
51)	Chlorobenzene	10.61	112	2425427	98.55	UG	#	95
52)	1,1,1,2-Tetrachloroethane	10.71	131	843684	105.42	UG	#	100
53)	Ethylbenzene	10.74	91	4656737	108.21	UG		98
54)	m,p-Xylene	10.88	106	3451068	216.64	UG		92
55)	o-Xylene	11.36	106	1666481	111.92	UG		90
56)	Styrene	11.37	104	2959152	115.52	UG	#	100
57)	Bromoform	11.59	173	506462	110.41	UG	#	63
58)	Isopropylbenzene	11.80	105	4367944	114.26	UG		99
60)	1,1,2,2-Tetrachloroethane	12.14	83	1138270	97.64	UG		98
61)	Bromobenzene	12.17	156	928635	100.94	UG	#	100
62)	1,2,3-Trichloropropane	12.20	75	1019463	96.92	UG	#	1
63)	n-Propylbenzene	12.30	91	5414502	105.82	UG		98
64)	2-Chlorotoluene	12.40	91	3189241	105.16	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	3643961	107.40	UG		98
66)	4-Chlorotoluene	12.54	91	3865025	106.49	UG		98
67)	tert-Butylbenzene	12.91	119	2888242	115.20	UG	#	1
68)	1,2,4-Trimethylbenzene	12.97	105	3844372	105.65	UG		98
69)	sec-Butylbenzene	13.19	105	4538456	112.12	UG		99
70)	1,3-Dichlorobenzene	13.32	146	1898170	104.28	UG	#	100
71)	4-Isopropyltoluene	13.36	119	3786137	114.44	UG	#	90
72)	1,4-Dichlorobenzene	13.43	146	1875847	101.21	UG		100
73)	n-Butylbenzene	13.87	91	3809063	117.01	UG		98
74)	1,2-Dichlorobenzene	13.89	146	1861102	107.52	UG	#	81
75)	1,2-Dibromo-3-chloropropan	14.81	75	198659	105.40	UG	#	79
76)	1,2,4-Trichlorobenzene	15.72	180	1227681	119.01	UG		99
77)	Hexachlorobutadiene	15.91	225	390316	106.45	UG		100
78)	Naphthalene	15.98	128	3059643	119.62	UG		100
79)	1,2,3-Trichlorobenzene	16.23	180	1095390	114.97	UG		99
80)	1,1,2-Trichloro-1,2,2-trif	3.75	101	859961	111.88	UG		92
81)	Methyl acetate	4.20	43	1412966	86.59	UG	#	81
82)	Cyclohexane	6.46	56	2061214	100.74	UG	#	74
83)	Methylcyclohexane	7.75	83	1517248	102.29	UG	#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Mon Oct 02 15:01:10 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1526.D
Acq On : 18 Sep 2017 12:14
Operator : BARBARA
Sample : CCV100,CCV170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 02 15:01:01 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1550.D
 Acq On : 19 Sep 2017 00:09
 Operator : BARBARA
 Sample : CCV100,CCV170918a,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 19 10:03:21 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	83	0.00
2 T	Dichlorodifluoromethane	0.366	0.373	-1.9	81	-0.01
3 P	Chloromethane	0.954	0.876	8.2	83	-0.02
4 C	Vinyl chloride	0.715	0.784	-9.7	96	0.00
5 T	Bromomethane	0.227	0.234	-3.1	78	-0.03
6 T	Chloroethane	0.333	0.386	-15.9	94	-0.05
7 T	Trichlorofluoromethane	0.526	0.585	-11.2	81	0.01
9 MC	1,1-Dichloroethene	0.559	0.567	-1.4	81	-0.03
10 T	Acetone	0.331	0.352	-6.3	91	0.40
11 T	Carbon disulfide	1.354	1.570	-16.0	91	-0.03
12 T	Vinyl acetate	1.102	1.016	7.8	72	-0.02
13 T	Methylene chloride	0.601	0.615	-2.3	85	-0.03
14 T	Acrylonitrile	0.320	0.295	7.8	72	0.00
15 T	tert-Butyl alcohol (TBA)	0.069	0.058	15.9	69	0.00
16 T	trans-1,2-Dichloroethene	0.565	0.596	-5.5	86	-0.01
17 T	Methyl tert-butyl ether (MT)	1.651	1.456	11.8	66	-0.02
18 P	1,1-Dichloroethane	1.239	1.347	-8.7	85	0.00
19 T	Diisopropyl ether (DIPE)	2.689	2.977	-10.7	82	0.00
20 T	cis-1,2-Dichloroethene	0.629	0.674	-7.2	84	-0.02
21 T	2,2-Dichloropropane	0.540	0.609	-12.8	89	0.00
22 T	2-Butanone (MEK)	0.359	0.362	-0.8	77	0.00
23 T	Bromochloromethane	0.294	0.247	16.0	68	-0.02
25 C	Chloroform	1.094	1.153	-5.4	84	0.00
26 T	1,1,1-Trichloroethane	0.783	0.936	-19.5	96	0.00
27 T	Carbon tetrachloride	0.693	0.793	-14.4	89	-0.01
28 T	1,1-Dichloropropene	0.853	0.873	-2.3	82	-0.01
29 T	1,2-Dichloroethane (EDC)	1.090	0.912	16.3	66	0.00
30 S	1,2-Dichloroethane-d4	0.850	0.682	19.8	67	0.00
31 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
32 M	Benzene	1.413	1.488	-5.3	82	-0.01
33 M	Trichloroethene	0.349	0.359	-2.9	82	0.00
34 C	1,2-Dichloropropane	0.426	0.416	2.3	75	-0.02
35 T	Dibromomethane	0.221	0.189	14.5	65	-0.02
36 T	1,4-Dioxane	0.003	0.003	0.0	70	0.00
37 T	Bromodichloromethane	0.480	0.479	0.2	76	0.00
39 T	cis-1,3-Dichloropropene	0.538	0.534	0.7	67	-0.02
40 T	4-Methyl-2-pentanone (MIBK)	0.415	0.421	-1.4	68	0.00
41 S	Toluene-d8	1.279	1.326	-3.7	83	0.00
42 MC	Toluene	0.865	0.892	-3.1	80	0.00
43 T	trans-1,3-Dichloropropene	0.504	0.426	15.5	60	-0.01
44 T	1,1,2-Trichloroethane	0.270	0.220	18.5	63	-0.02
45 T	Tetrachloroethene	0.288	0.294	-2.1	80	0.00
46 T	1,3-Dichloropropane	0.552	0.451	18.3	61	0.00
47 T	2-Hexanone	0.303	0.283	6.6	66	0.00
48 T	Dibromochloromethane	0.315	0.260	17.5	62	-0.02

49	T	1,2-Dibromoethane (EDB)	0.276	0.250	9.4	66	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
51	MP	Chlorobenzene	1.166	1.155	0.9	80	0.00
52	T	1,1,1,2-Tetrachloroethane	0.379	0.395	-4.2	78	0.00
53	C	Ethylbenzene	2.039	2.177	-6.8	81	0.00
54	T	m,p-Xylene	0.755	0.812	-7.5	82	0.00
55	T	o-Xylene	0.705	0.812	-15.2	82	0.00
56	T	Styrene	1.213	1.354	-11.6	78	0.00
57	P	Bromoform	0.217	0.175	19.4	56	0.00
58	T	Isopropylbenzene	1.811	2.135	-17.9	84	0.00
59	S	Bromofluorobenzene	0.587	0.579	1.4	78	0.00
60	P	1,1,2,2-Tetrachloroethane	0.552	0.639	-15.8	91	0.00
61	T	Bromobenzene	0.436	0.414	5.0	75	0.00
62	T	1,2,3-Trichloropropane	0.498	0.572	-14.9	91	-0.01
63	T	n-Propylbenzene	2.424	2.555	-5.4	81	0.00
64	T	2-Chlorotoluene	1.437	1.520	-5.8	80	0.00
65	T	1,3,5-Trimethylbenzene	1.607	1.810	-12.6	82	0.00
66	T	4-Chlorotoluene	1.719	1.812	-5.4	80	0.00
67	T	tert-Butylbenzene	1.188	1.396	-17.5	83	0.00
68	T	1,2,4-Trimethylbenzene	1.724	1.878	-8.9	83	0.00
69	T	sec-Butylbenzene	1.917	2.235	-16.6	84	0.00
70	T	1,3-Dichlorobenzene	0.862	0.872	-1.2	78	-0.01
71	T	4-Isopropyltoluene	1.567	1.850	-18.1	84	0.00
72	T	1,4-Dichlorobenzene	0.878	0.857	2.4	75	-0.01
73	T	n-Butylbenzene	1.542	1.804	-17.0	80	-0.01
74	T	1,2-Dichlorobenzene	0.820	0.821	-0.1	73	-0.01
75	T	1,2-Dibromo-3-chloropropane	0.089	0.077	13.5	61	0.00
76	T	1,2,4-Trichlorobenzene	0.489	0.482	1.4	68	0.00
77	T	Hexachlorobutadiene	0.174	0.180	-3.4	85	0.00
79	T	1,2,3-Trichlorobenzene	0.451	0.370	18.0	57	0.00
80	T	1,1,2-Trichloro-1,2,2-trifl	0.364	0.412	-13.2	90	0.00
81	T	Methyl acetate	0.773	0.876	-13.3	88	-0.02
82	T	Cyclohexane	0.969	1.007	-3.9	86	0.00
83	T	Methylcyclohexane	0.703	0.725	-3.1	85	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

E8091217.M Tue Sep 19 16:28:19 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1550.D
 Acq On : 19 Sep 2017 00:09
 Operator : BARBARA
 Sample : CCV100,CCV170918a,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 19 10:03:21 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	620496	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1085871	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	884587	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	423263	40.12	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	80.24%
41) Toluene-d8	8.90	98	1439647	51.85	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.70%
59) Bromofluorobenzene	11.98	95	512023	49.29	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	98.58%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	463499	102.09	UG	100
3) Chloromethane	2.10	50	1087633	91.85	UG	100
4) Vinyl chloride	2.24	62	973149	109.69	UG	99
5) Bromomethane	2.62	94	289882	102.68	UG	100
6) Chloroethane	2.74	64	479395	116.17	UG	100
7) Trichlorofluoromethane	3.06	101	725766	111.28	UG	99
8) Acrolein	3.57	56	177927	123.81	UG	# 100
9) 1,1-Dichloroethene	3.69	96	703565	101.47	UG	# 100
10) Acetone	4.19	43	874090	212.86	UG	99
11) Carbon disulfide	3.96	76	1948927	115.99	UG	99
12) Vinyl acetate	4.19	43	1260842	92.21	UG	99
13) Methylene chloride	4.29	84	762748	102.29	UG	# 98
14) Acrylonitrile	4.60	53	1096920	275.93	UG	99
15) tert-Butyl alcohol (TBA)	4.49	59	144765	169.73	UG	99
16) trans-1,2-Dichloroethene	4.63	96	740239	105.51	UG	# 100
17) Methyl tert-butyl ether (M	4.65	73	1806763	88.19	UG	99
18) 1,1-Dichloroethane	5.13	63	1671177	108.72	UG	99
19) Diisopropyl ether (DIPE)	5.23	45	3694332	110.70	UG	# 48
20) cis-1,2-Dichloroethene	5.80	96	837030	107.27	UG	# 100
21) 2,2-Dichloropropane	5.80	77	755406	112.70	UG	99
22) 2-Butanone (MEK)	5.26	43	897633	201.44	UG	99
23) Bromochloromethane	6.08	128	306022	83.97	UG	# 99
25) Chloroform	6.16	83	1430696	105.38	UG	98
26) 1,1,1-Trichloroethane	6.39	97	1162054	119.63	UG	# 82
27) Carbon tetrachloride	6.57	117	983817	114.33	UG	99
28) 1,1-Dichloropropene	6.57	75	1083243	102.33	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.82	62	1131510	83.67	UG	# 86
32) Benzene	6.80	78	3232540	105.32	UG	100
33) Trichloroethene	7.52	95	779455	102.83	UG	91
34) 1,2-Dichloropropane	7.77	63	903692	97.74	UG	# 100
35) Dibromomethane	7.91	93	410862	85.67	UG	99
36) 1,4-Dioxane	7.23	88	190813	2871.02	UG	99
37) Bromodichloromethane	8.08	83	1041281	99.90	UG	# 98
38) 2-Chloroethyl vinyl ether	8.59	63	9488	1.82	UG	# 86
39) cis-1,3-Dichloropropene	8.59	75	1158909	99.25	UG	98
40) 4-Methyl-2-pentanone (MIBK)	8.77	43	1830540	203.31	UG	99
42) Toluene	8.98	92	1937171	103.12	UG	97

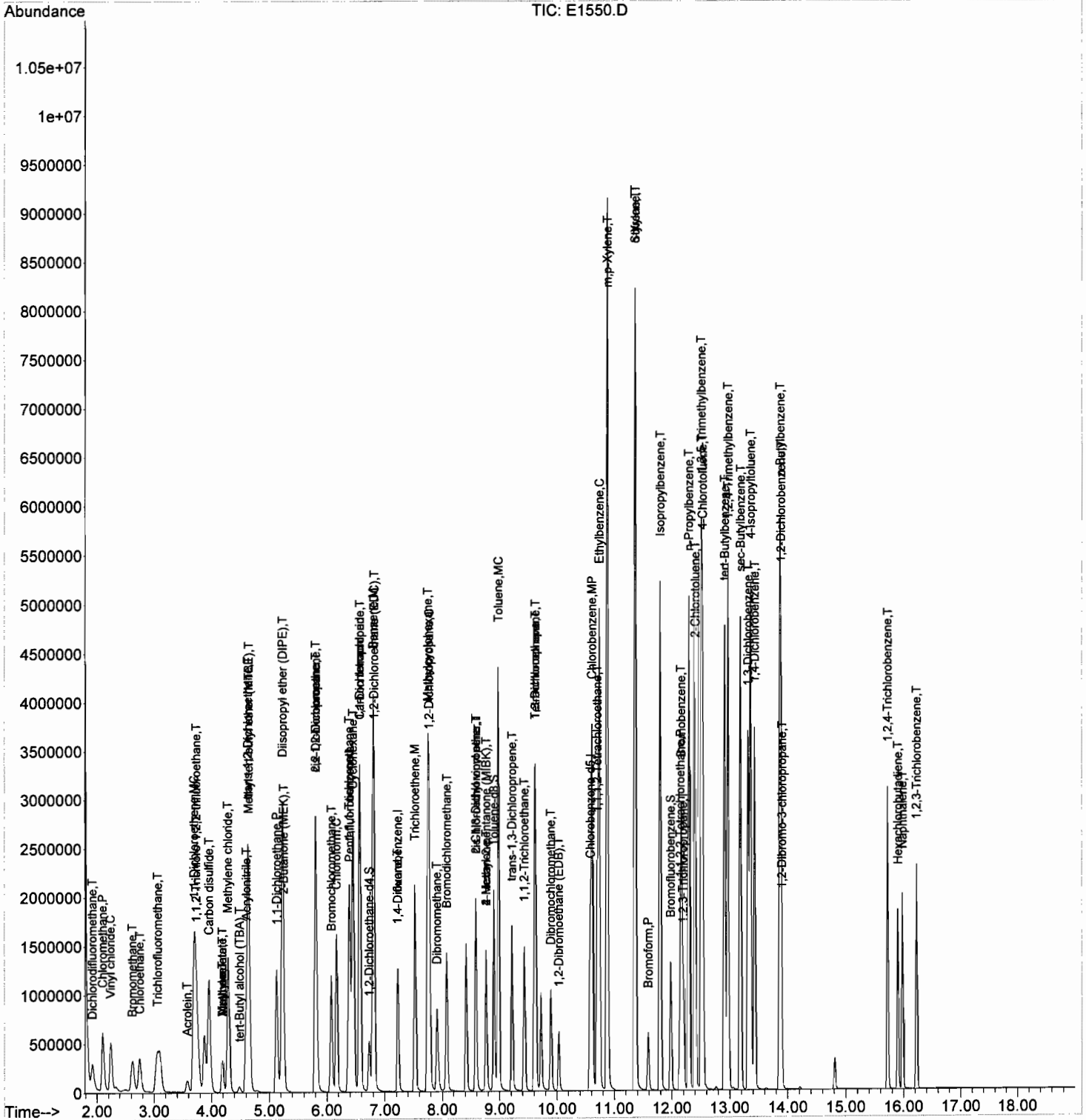
43)	trans-1,3-Dichloropropene	9.22	75	924580	84.54	UG	#	78
44)	1,1,2-Trichloroethane	9.43	83	476876	81.44	UG		99
45)	Tetrachloroethene	9.61	166	638269	101.97	UG	#	100
46)	1,3-Dichloropropane	9.63	76	979316	81.73	UG		99
47)	2-Hexanone	8.77	43	1228170	186.35	UG		99
48)	Dibromochloromethane	9.89	129	565112	82.50	UG		100
49)	1,2-Dibromoethane (EDB)	10.03	107	543702m	90.68	UG		
51)	Chlorobenzene	10.61	112	2042912	99.05	UG	#	73
52)	1,1,1,2-Tetrachloroethane	10.71	131	698578	104.16	UG	#	99
53)	Ethylbenzene	10.74	91	3852106	106.81	UG		98
54)	m,p-Xylene	10.88	106	2874069	215.29	UG		93
55)	o-Xylene	11.36	106	1437277	115.18	UG		93
56)	Styrene	11.37	104	2395755	111.60	UG	#	100
57)	Bromoform	11.59	173	309836	80.60	UG		100
58)	Isopropylbenzene	11.80	105	3776477	117.87	UG		99
60)	1,1,2,2-Tetrachloroethane	12.14	83	1129844	115.64	UG		100
61)	Bromobenzene	12.17	156	733287	95.11	UG	#	51
62)	1,2,3-Trichloropropane	12.20	75	1012447	114.86	UG		99
63)	n-Propylbenzene	12.29	91	4520976	105.43	UG		98
64)	2-Chlorotoluene	12.40	91	2688532	105.78	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	3202077	112.62	UG		98
66)	4-Chlorotoluene	12.54	91	3205610	105.39	UG		98
67)	tert-Butylbenzene	12.91	119	2469786	117.55	UG		99
68)	1,2,4-Trimethylbenzene	12.97	105	3323166	108.97	UG		98
69)	sec-Butylbenzene	13.19	105	3953989	116.56	UG		100
70)	1,3-Dichlorobenzene	13.32	146	1543549	101.18	UG	#	100
71)	4-Isopropyltoluene	13.36	119	3272611	118.04	UG	#	100
72)	1,4-Dichlorobenzene	13.43	146	1516462	97.63	UG		100
73)	n-Butylbenzene	13.86	91	3191051	116.97	UG		98
74)	1,2-Dichlorobenzene	13.89	146	1452025	100.09	UG	#	81
75)	1,2-Dibromo-3-chloropropan	13.91	75	136405	86.36	UG		100
76)	1,2,4-Trichlorobenzene	15.72	180	852957	98.66	UG		100
77)	Hexachlorobutadiene	15.90	225	318844	103.76	UG		100
78)	Naphthalene	15.98	128	1469086	68.53	UG		100
79)	1,2,3-Trichlorobenzene	16.23	180	654004	81.91	UG		99
80)	1,1,2-Trichloro-1,2,2-trif	3.74	101	728434	113.08	UG		93
81)	Methyl acetate	4.19	43	1550383	113.37	UG		100
82)	Cyclohexane	6.45	56	1781541	103.90	UG	#	73
83)	Methylcyclohexane	7.74	83	1282174	103.14	UG	#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Mon Oct 02 15:02:17 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1550.D
Acq On : 19 Sep 2017 00:09
Operator : BARBARA
Sample : CCV100, CCV170918a, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 19 10:03:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

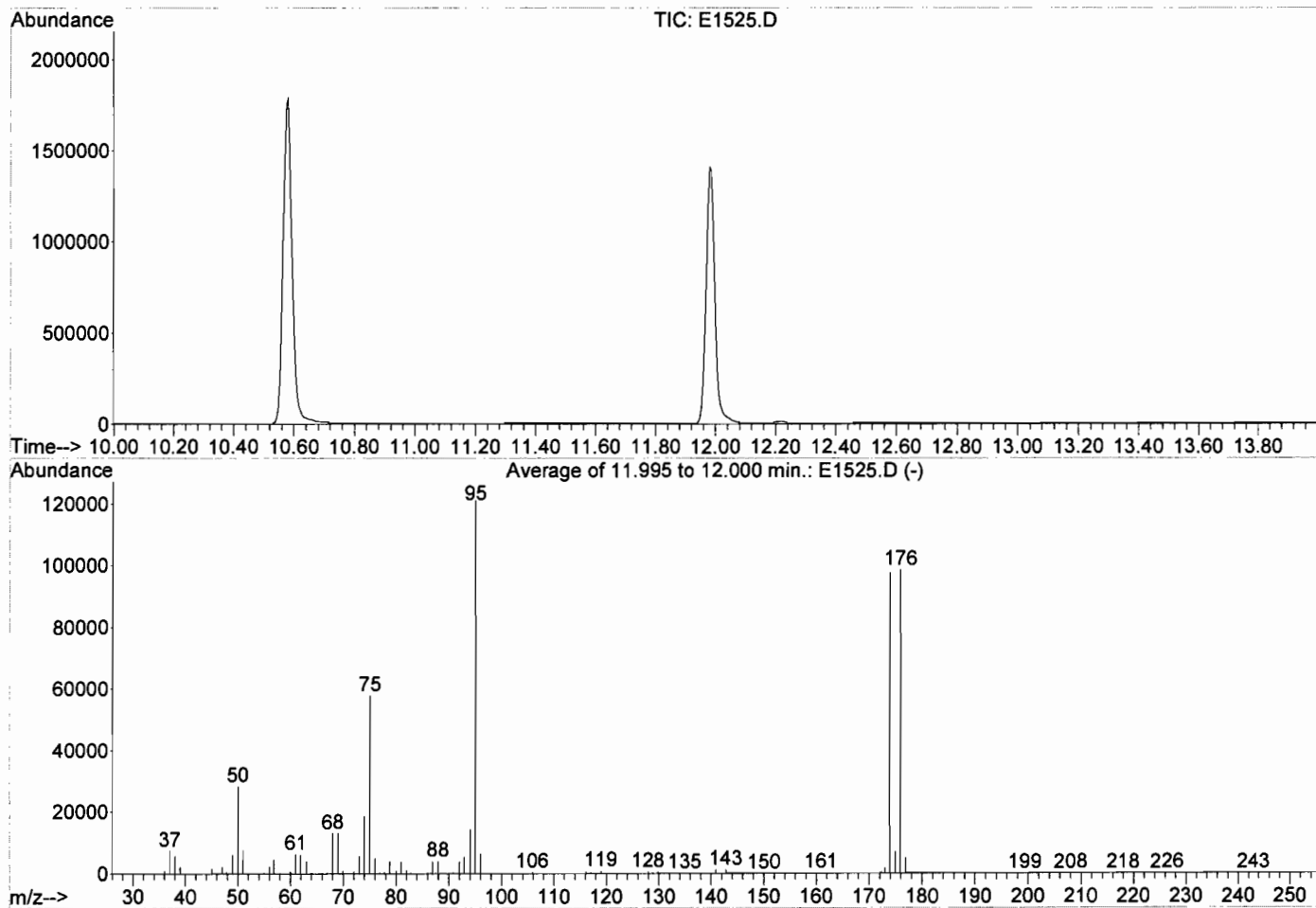


VOLATILE ORGANICS RAW QC DATA

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1525.D
Acq On : 18 Sep 2017 11:45
Operator : BARBARA
Sample : BFBA170918,BFBA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C
Last Update : Wed Sep 13 10:48:46 2017



Spectrum Information: Average of 11.995 to 12.000 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	28434	PASS
75	95	30	60	47.8	57920	PASS
95	95	100	100	100.0	121232	PASS
96	95	5	9	5.4	6529	PASS
173	174	0.00	2	1.9	1814	PASS
174	95	50	100	80.7	97806	PASS
175	174	5	9	7.3	7109	PASS
176	174	95	101	101.0	98738	PASS
177	176	5	9	5.1	5074	PASS

Average of 11.995 to 12.000 min.: E1525.D

BFBA170918,BFBA170918,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1037	50.00	28434	63.00	4146	76.00	5006
37.00	7471	51.00	7725	63.90	411	76.90	432
38.00	5758	52.00	164	67.00	376	77.80	509
39.00	2140	55.00	385	68.00	13077	78.80	4034
42.95	185	56.00	2380	69.00	13278	80.00	981
43.95	223	56.90	4758	69.95	956	80.90	3899
45.05	1661	58.05	253	70.70	43	81.95	1216
46.00	243	59.90	762	72.00	855	82.90	152
47.00	2258	60.10	509	73.00	5737	83.10	140
47.85	551	61.00	6417	74.00	18604	85.30	97
49.00	6248	61.90	6130	75.00	57920	85.90	296

Average of 11.995 to 12.000 min.: E1525.D

BFBA170918,BFBA170918,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.90	3945	102.85	103	112.80	147	127.95	614
87.95	4081	103.80	294	114.80	64	128.80	187
90.80	537	104.75	220	115.00	40	129.80	610
92.00	3883	105.85	468	116.05	621	130.70	138
92.90	5533	106.80	98	117.00	456	131.50	47
94.00	14335	107.10	74	117.80	173	134.90	254
95.00	121232	108.20	44	118.95	914	135.40	27
96.00	6529	109.90	16	123.80	108	136.00	38
97.00	85	110.85	203	125.35	88	136.85	389
100.80	33	111.55	79	125.90	95	138.70	131
101.40	25	112.05	128	126.40	41	139.65	80

Average of 11.995 to 12.000 min.: E1525.D

BFBA170918,BFBA170918,A,5mL,100

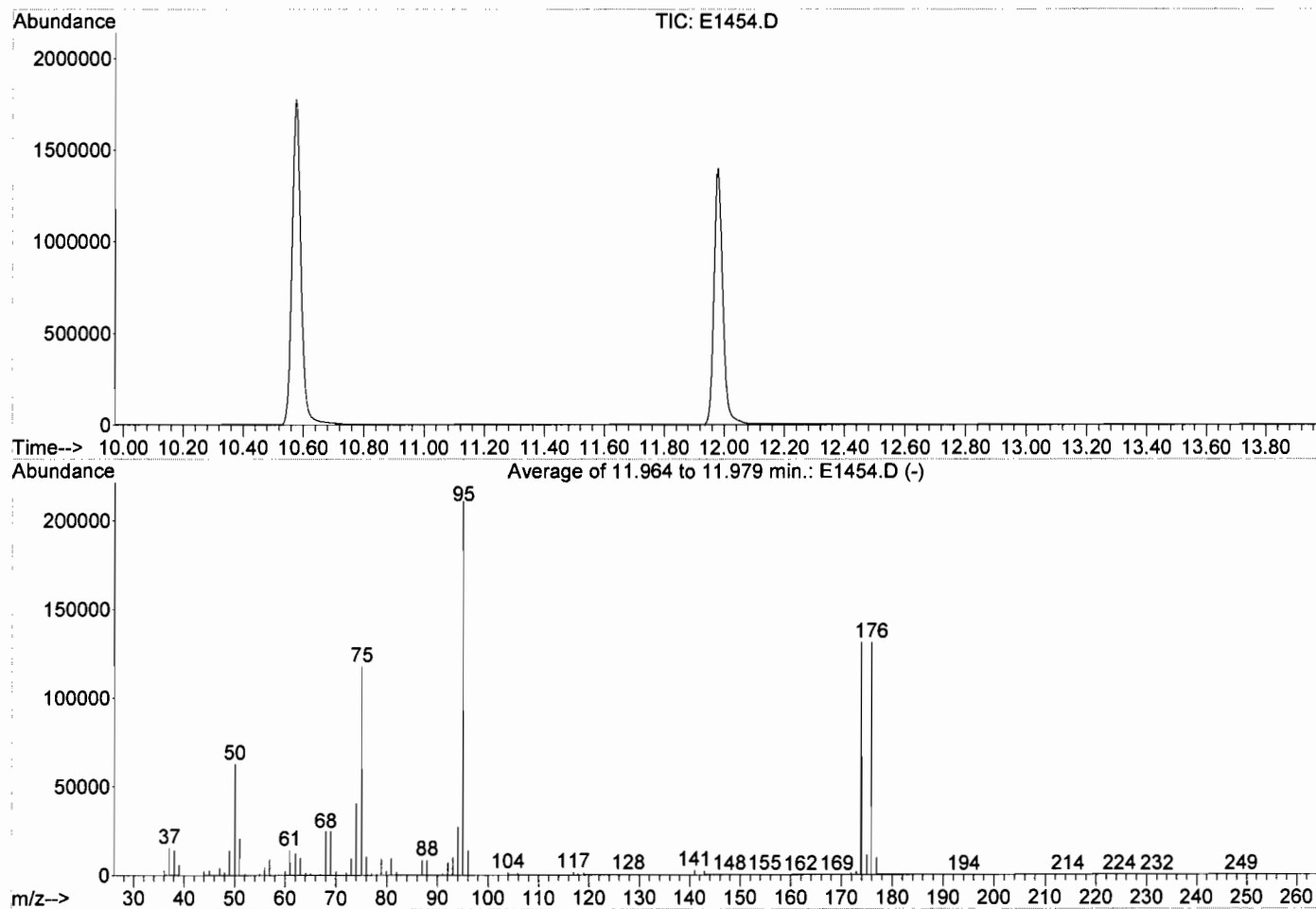
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.90	1281	151.85	174	172.30	494	226.40	57
141.70	41	153.85	65	173.00	1814	239.80	52
142.10	83	154.90	253	173.90	97806	242.95	53
142.80	1284	157.10	33	174.95	7109	245.00	31
143.80	97	158.95	152	175.90	98738		
144.80	26	160.90	307	176.85	5074		
145.75	324	163.30	62	177.85	197		
147.90	309	165.20	40	199.40	25		
148.60	60	170.20	130	203.50	26		
148.80	43	170.85	144	208.00	27		
150.05	177	172.00	266	217.95	68		

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1454.D
 Acq On : 12 Sep 2017 13:48
 Operator : BARBARA
 Sample : BFBA170912,BFBA170912,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 Last Update : Wed Sep 13 10:48:46 2017



Spectrum Information: Average of 11.964 to 11.979 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.8	62970	PASS
75	95	30	60	55.8	117815	PASS
95	95	100	100	100.0	211038	PASS
96	95	5	9	6.5	13763	PASS
173	174	0.00	2	1.4	1860	PASS
174	95	50	100	61.9	130640	PASS
175	174	5	9	8.6	11250	PASS
176	174	95	101	100.6	131369	PASS
177	176	5	9	7.5	9844	PASS

Average of 11.964 to 11.979 min.: E1454.D

BFBA170912,BFBA170912,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	2950	44.00	2367	54.15	43	63.05	10110
37.05	15465	45.05	2834	55.00	1023	64.05	1363
38.10	14101	46.00	426	56.00	4697	65.00	1021
39.00	6009	47.05	4184	57.00	8931	65.95	118
40.00	3	48.00	1693	58.10	390	66.95	772
40.10	44	49.00	14026	58.60	48	68.00	24287
40.25	158	50.00	62970	59.20	80	69.00	24937
41.40	15	51.00	20776	59.90	334	70.05	2193
41.90	25	52.05	939	60.05	2362	71.15	121
42.90	84	52.90	109	60.95	14220	72.00	1479
43.05	77	53.05	76	62.00	12523	73.00	9611

Average of 11.964 to 11.979 min.: E1454.D

BFBA170912,BFBA170912,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
74.00	40811	83.05	61	93.00	10072	103.90	1447
75.00	117815	84.80	61	94.00	27344	104.90	323
76.00	10442	85.70	71	95.00	211038	105.85	1044
77.00	1266	86.10	235	96.05	13763	106.90	290
77.50	90	87.00	8508	96.90	202	109.40	18
78.00	746	87.95	8650	97.00	135	109.85	196
78.90	9329	88.70	51	97.15	202	110.90	316
79.95	2670	89.35	29	98.00	79	111.95	239
80.90	9562	89.80	62	99.30	37	112.95	250
81.90	1874	90.95	792	102.60	29	113.70	51
82.75	105	92.05	7140	102.90	203	114.70	102

Average of 11.964 to 11.979 min.: E1454.D

BFBA170912,BFBA170912,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
114.95	196	127.85	862	136.70	74	144.95	376
115.80	267	128.80	127	136.80	154	145.85	348
115.95	594	129.05	240	136.95	190	146.70	115
116.95	1592	129.90	677	137.30	13	146.90	40
117.85	1035	130.75	147	138.20	38	147.90	366
118.95	1255	131.00	174	140.00	123	148.85	154
119.95	82	131.85	58	140.95	2620	149.70	110
121.80	14	133.85	32	141.90	251	149.95	167
122.95	118	134.10	45	142.90	2279	152.10	41
123.85	142	134.85	447	143.75	151	152.95	40
124.95	30	135.85	54	144.10	23	153.90	143

Average of 11.964 to 11.979 min.: E1454.D

BFBA170912,BFBA170912,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.20	13	167.20	52	172.95	1860	219.05	32
154.85	477	168.50	22	173.90	130640	224.60	36
156.00	68	168.65	105	174.95	11250	228.60	19
156.85	277	169.15	141	175.90	131369	232.10	14
157.90	52	169.85	196	176.95	9844	244.40	13
158.85	243	170.20	26	177.85	153	248.90	58
160.20	19	170.55	151	178.10	53	250.45	42
160.90	181	171.00	77	181.90	15	253.50	19
161.10	63	171.20	106	194.10	35	253.80	25
161.90	18	171.90	1290	214.50	70		
166.20	20	172.50	185	215.10	24		

Data Path : C:\MSDCHEM\1\DATA\09-12-17\
 Data File : E1455.D
 Acq On : 12 Sep 2017 14:18
 Operator : BARBARA
 Sample : ICC00.5, ICC170912, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 13 10:46:58 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:19:37 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	676483	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1243496	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	970114	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	593060	51.62	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	103.24%
41) Toluene-d8	8.90	98	1555877	48.68	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.36%
59) Bromofluorobenzene	11.98	95	546726	47.80	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	95.60%

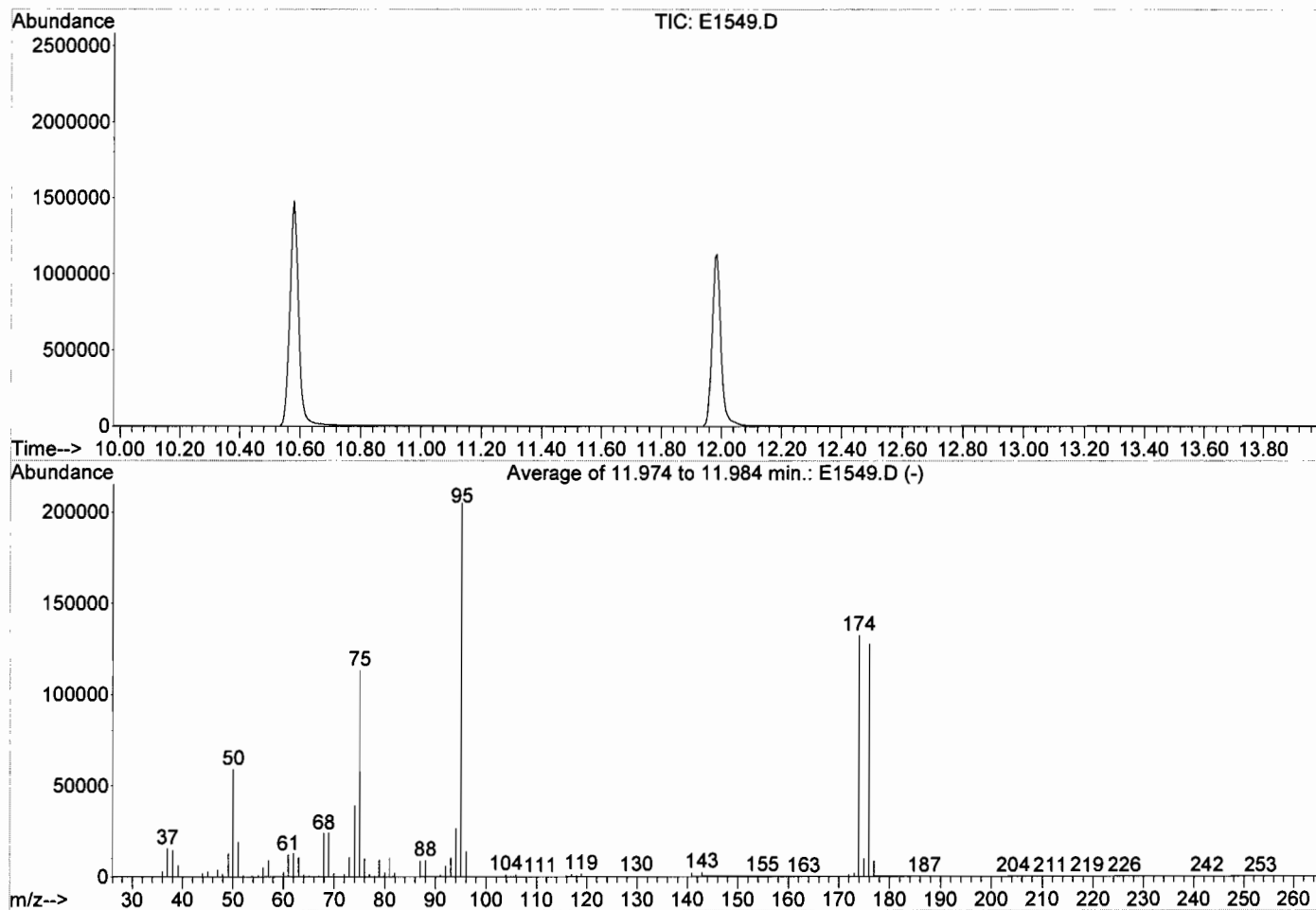
Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.93	85	2061m	0.42	UG	
3) Chloromethane	2.11	50	7430	0.59	UG	# 96
4) Vinyl chloride	2.24	62	4265	0.44	UG	# 96
5) Bromomethane	2.64	94	1947m	0.58	UG	
6) Chloroethane	2.79	64	2480m	0.57	UG	
7) Trichlorofluoromethane	3.05	101	3615m	0.52	UG	
8) Acrolein	3.59	56	17184	11.28	UG	# 100
9) 1,1-Dichloroethene	3.72	96	3276m	0.43	UG	
10) Acetone	3.79	43	7911m	1.75	UG	
11) Carbon disulfide	3.98	76	7733	0.41	UG	100
12) Vinyl acetate	4.20	43	8261	0.56	UG	# 100
13) Methylene chloride	4.32	84	4294m	0.52	UG	
14) Acrylonitrile	4.61	53	45817m	10.83	UG	
15) tert-Butyl alcohol (TBA)	4.49	59	1446m	1.56	UG	
16) trans-1,2-Dichloroethene	4.64	96	3299	0.42	UG	# 97
17) Methyl tert-butyl ether (M	4.67	73	9898	0.44	UG	100
18) 1,1-Dichloroethane	5.14	63	7281m	0.43	UG	
19) Diisopropyl ether (DIPE)	5.24	45	15046	0.41	UG	# 48
20) cis-1,2-Dichloroethene	5.82	96	3925	0.46	UG	# 100
21) 2,2-Dichloropropane	5.81	77	2956	0.40	UG	100
22) 2-Butanone (MEK)	5.84	43	4844	1.01	UG	# 86
23) Bromochloromethane	6.09	128	2391	0.60	UG	# 98
25) Chloroform	6.17	83	6567	0.44	UG	100
26) 1,1,1-Trichloroethane	6.38	97	4946	0.46	UG	# 82
27) Carbon tetrachloride	6.58	117	3755	0.39	UG	99
28) 1,1-Dichloropropene	6.58	75	4446	0.37	UG	# 90
29) 1,2-Dichloroethane (EDC)	6.81	62	6616	0.45	UG	# 86
32) Benzene	6.81	78	15647	0.44	UG	100
33) Trichloroethene	7.53	95	3825	0.43	UG	# 32
34) 1,2-Dichloropropane	7.79	63	5199	0.50	UG	# 100
35) Dibromomethane	7.92	93	2090	0.38	UG	# 73
36) 1,4-Dioxane	7.94	88	7311	97.76	UG	# 100
37) Bromodichloromethane	8.08	83	5782	0.49	UG	# 92
39) cis-1,3-Dichloropropene	8.60	75	4932m	0.36	UG	
40) 4-Methyl-2-pentanone (MIBK	8.77	43	7501	0.75	UG	# 79
42) Toluene	8.98	92	9222	0.42	UG	98
43) trans-1,3-Dichloropropene	9.23	75	4946m	0.39	UG	
44) 1,1,2-Trichloroethane	9.45	83	3189	0.48	UG	96
45) Tetrachloroethene	9.61	166	2518m	0.32	UG	

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1549.D
 Acq On : 18 Sep 2017 23:40
 Operator : BARBARA
 Sample : BFBA170918,BFB170918a,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 23 Sample Multiplier: 1

Integration File: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 Last Update : Wed Sep 13 10:48:46 2017



Spectrum Information: Average of 11.974 to 11.984 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.8	59160	PASS
75	95	30	60	55.2	113320	PASS
95	95	100	100	100.0	205205	PASS
96	95	5	9	6.8	13995	PASS
173	174	0.00	2	1.5	2053	PASS
174	95	50	100	64.6	132648	PASS
175	174	5	9	7.6	10111	PASS
176	174	95	101	96.3	127690	PASS
177	176	5	9	6.8	8719	PASS

Average of 11.974 to 11.984 min.: E1549.D

BFBA170918,BFB170918a,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	3080	47.00	4054	57.05	9014	68.00	23685
37.00	15472	47.95	1680	58.05	374	69.00	24117
38.10	14552	49.05	12844	58.80	163	69.95	2092
39.10	6237	50.00	59160	60.00	2721	70.60	40
40.20	276	51.05	19102	61.00	12367	71.00	131
42.60	52	52.00	682	62.00	12860	71.30	42
43.05	193	52.95	169	63.05	10867	71.95	1439
43.95	1986	53.30	29	64.05	1399	73.00	10876
45.05	3062	54.20	127	65.05	795	74.00	39288
45.95	275	55.00	888	65.90	252	75.00	113320
46.20	233	56.00	5168	67.00	742	76.00	10085

Average of 11.974 to 11.984 min.: E1549.D

BFBA170918,BFB170918a,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.95	1453	86.95	8862	103.90	1187	112.90	432
77.80	302	88.00	8996	104.85	364	114.85	320
78.00	526	90.95	1216	105.85	1061	115.85	823
78.90	9303	92.00	6091	106.85	137	116.90	1522
79.95	2351	93.00	10454	107.60	91	117.95	847
80.95	10421	94.00	26386	108.80	39	118.90	1599
81.90	2139	95.00	205205	109.90	266	119.85	73
82.70	147	96.00	13995	110.75	246	122.25	43
83.00	248	97.05	384	111.80	70	123.00	196
85.40	29	97.90	31	112.00	113	123.95	92
85.95	271	102.90	159	112.40	48	124.95	98

Average of 11.974 to 11.984 min.: E1549.D

BFBA170918,BFB170918a,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
125.75	112	136.85	347	145.90	396	155.90	39
127.80	661	137.40	21	146.85	253	156.70	146
128.90	314	137.90	48	147.10	26	157.00	170
129.85	704	138.85	85	147.95	453	158.95	418
131.00	345	139.75	189	148.75	149	160.75	241
131.70	28	140.85	2166	149.85	216	163.05	71
133.60	18	141.80	186	151.10	49	163.40	55
134.00	129	142.00	44	151.75	54	167.85	39
134.80	164	142.90	2471	152.70	58	169.55	127
134.95	259	144.05	149	154.15	205	170.50	184
135.80	175	145.00	478	154.95	505	170.85	236

Average of 11.974 to 11.984 min.: E1549.D

BFBA170918,BFB170918a,A,5mL,100

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.10	118	203.10	38	253.40	61		
171.95	1169	204.30	63	254.40	34		
173.00	2053	211.60	20				
173.90	132648	214.70	18				
174.95	10111	216.20	19				
175.90	127690	218.80	30				
176.90	8719	224.40	18				
177.90	121	226.20	22				
178.20	46	241.70	17				
186.80	63	242.60	20				
189.60	29	246.60	17				

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1529.D
Acq On : 18 Sep 2017 13:44
Operator : BARBARA
Sample : BLKA170918,BLKA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 18 17:13:24 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	616434	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1129461	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	922480	50.00	UG	0.00

System Monitoring Compounds

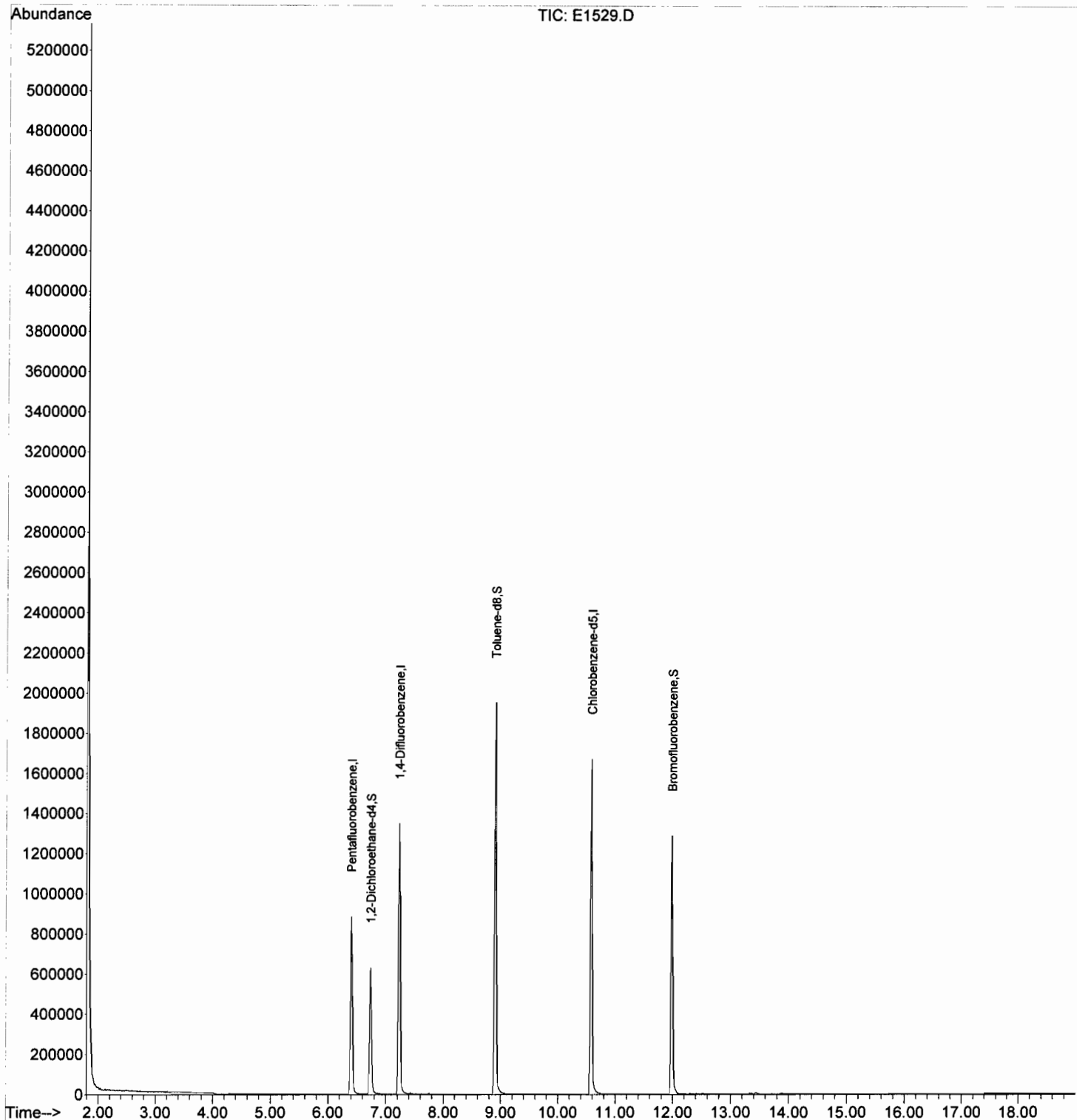
30) 1,2-Dichloroethane-d4	6.74	65	530596	50.62	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	101.24%
41) Toluene-d8	8.91	98	1432657	49.60	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.20%
59) Bromofluorobenzene	11.98	95	507952	46.89	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.78%

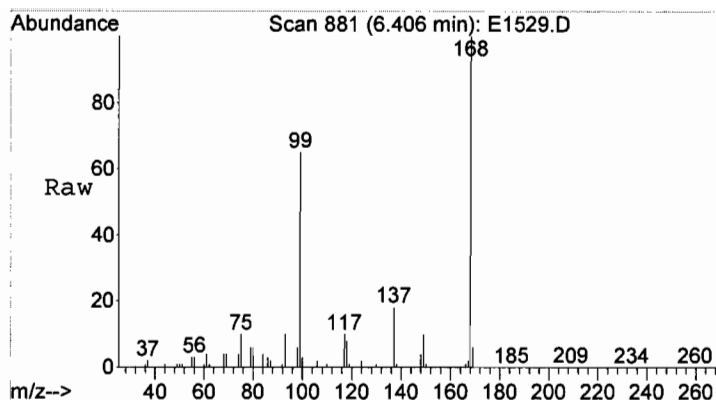
Target Compounds	Qvalue
------------------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1529.D
Acq On : 18 Sep 2017 13:44
Operator : BARBARA
Sample : BLKA170918,BLKA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 3 Sample Multiplier: 1

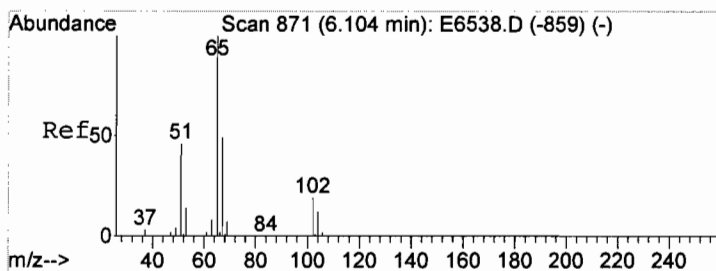
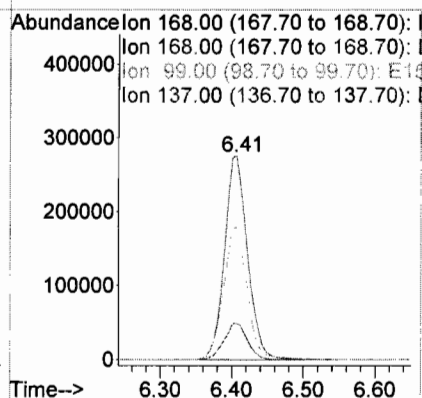
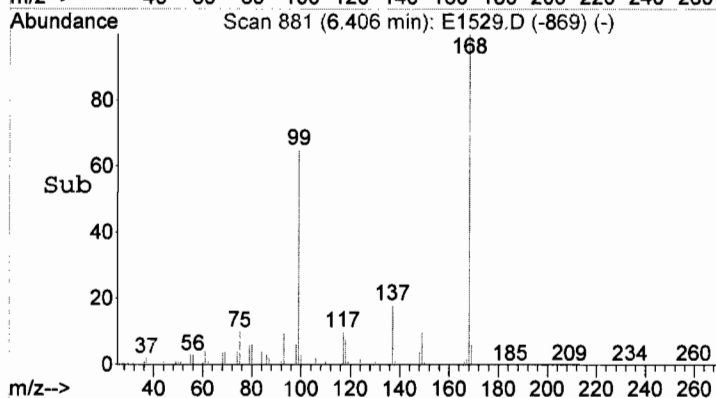
Quant Time: Sep 18 17:13:24 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





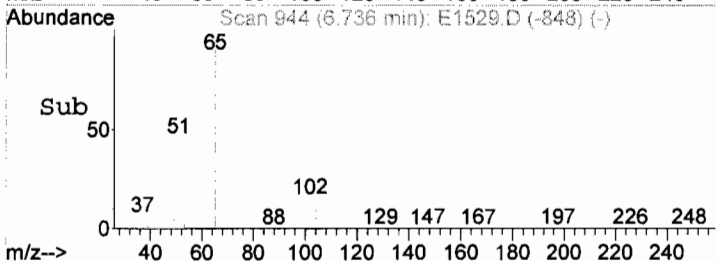
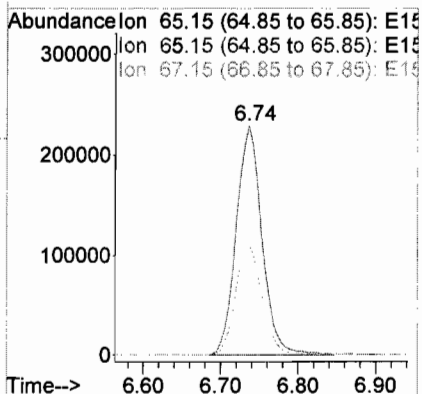
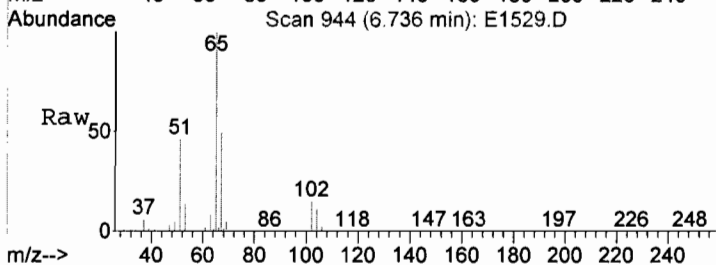
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.41 min Scan# 881
Delta R.T. 0.01 min
Lab File: E1529.D
Acq: 18 Sep 2017 13:44

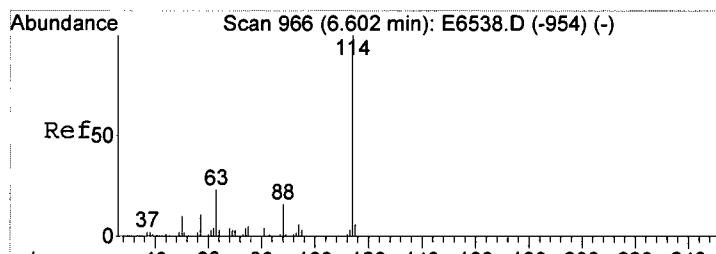
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#30
1,2-Dichloroethane-d4
Concen: 50.62 UG
RT: 6.74 min Scan# 944
Delta R.T. 0.01 min
Lab File: E1529.D
Acq: 18 Sep 2017 13:44

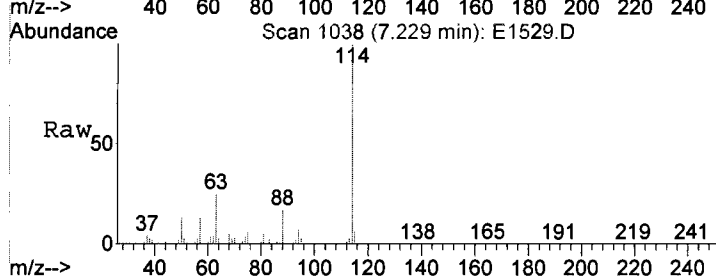
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	50.0	43.2	64.8



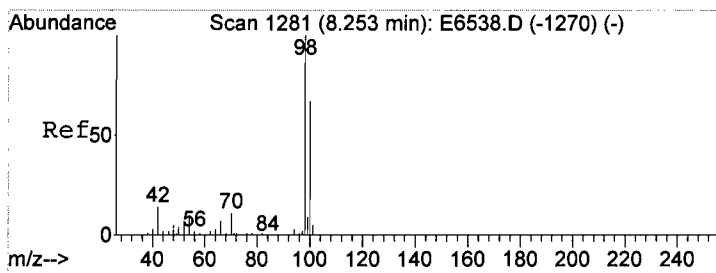
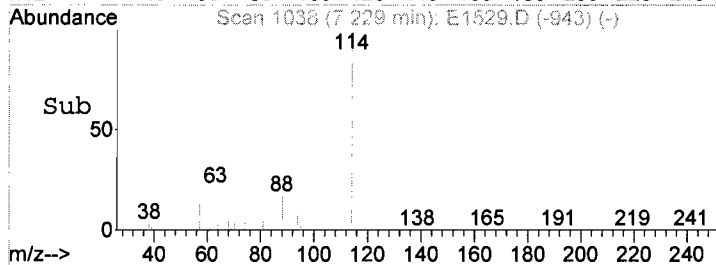
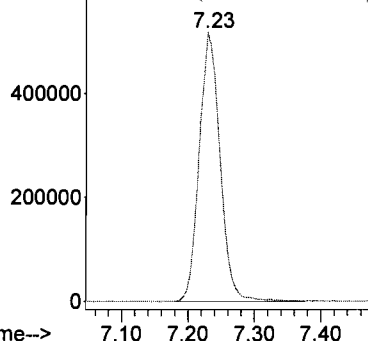


#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. 0.00 min
Lab File: E1529.D
Acq: 18 Sep 2017 13:44

Tgt Ion: 114 Resp: 1129461
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0

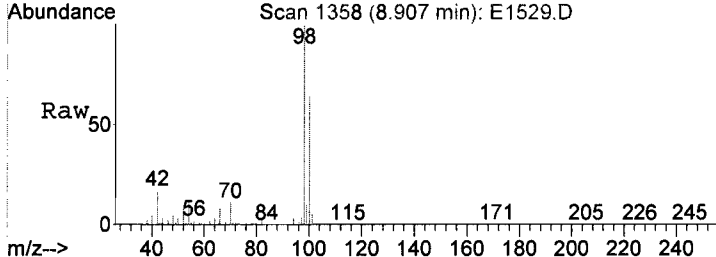


Abundance Ion 114.00 (113.70 to 114.70): I
600000 Ion 114.00 (113.70 to 114.70): I

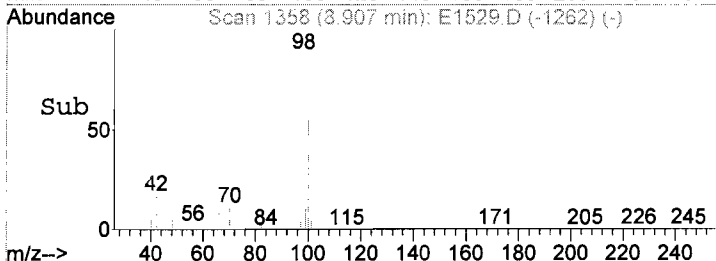
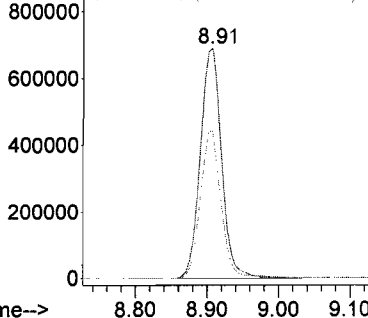


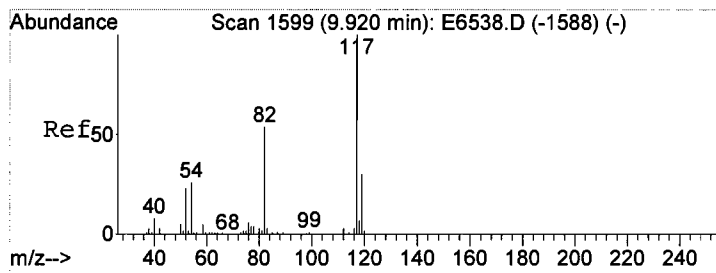
#41
Toluene-d8
Concen: 49.60 UG
RT: 8.91 min Scan# 1358
Delta R.T. 0.01 min
Lab File: E1529.D
Acq: 18 Sep 2017 13:44

Tgt Ion: 98 Resp: 1432657
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 62.3 53.4 80.0



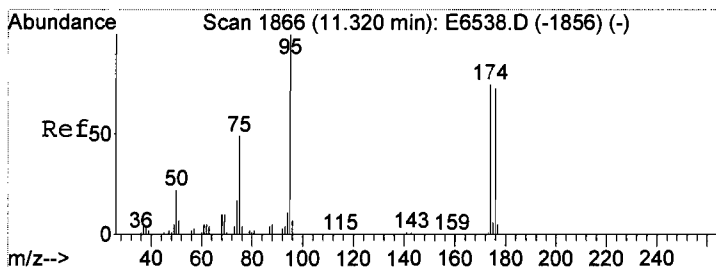
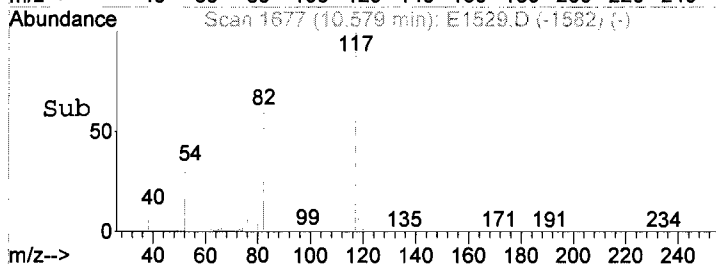
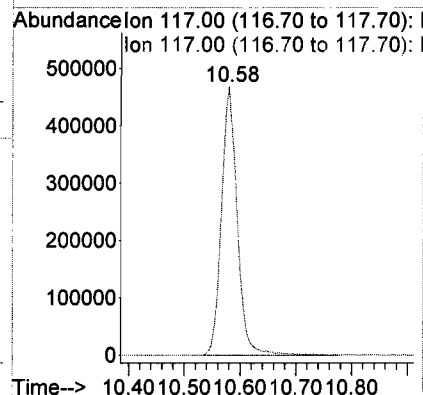
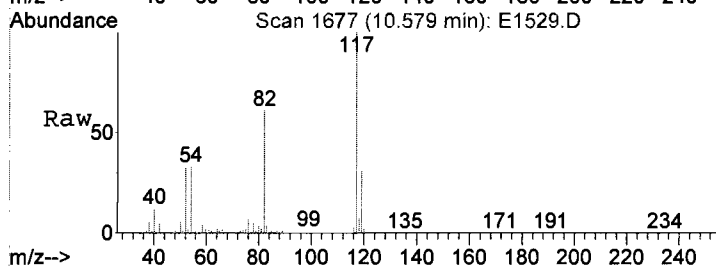
Abundance Ion 98.00 (97.70 to 98.70): E15
Ion 98.00 (97.70 to 98.70): E15
Ion 100.00 (99.70 to 100.70): E15





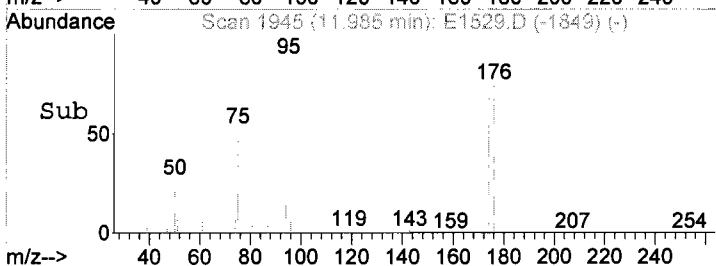
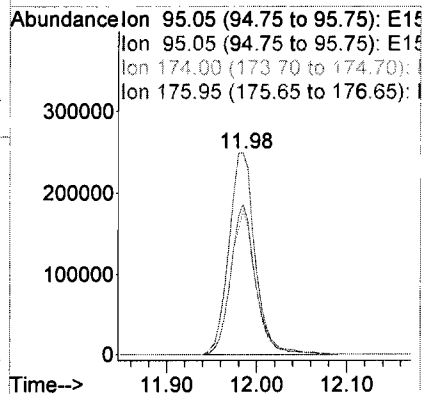
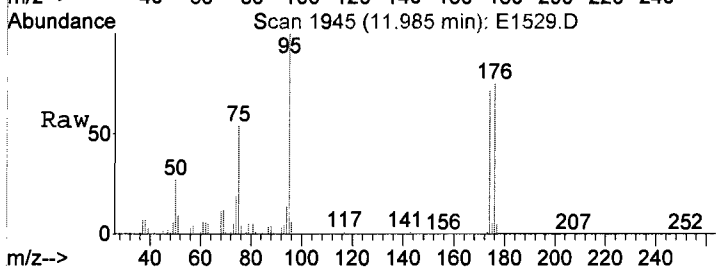
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1529.D
Acq: 18 Sep 2017 13:44

Tgt Ion: 117 Resp: 922480
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 46.89 UG
RT: 11.98 min Scan# 1945
Delta R.T. 0.01 min
Lab File: E1529.D
Acq: 18 Sep 2017 13:44

Tgt Ion: 95 Resp: 507952
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 67.7 62.9 94.3
176 70.6 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1529.D
Acq On : 18 Sep 2017 13:44
Operator : BARBARA
Sample : BLKA170918,BLKA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.1
Stop Thrs : 0.1
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.164	67	72	122	rVB	7081	51976	1.25%	0.309%
2	6.401	867	880	910	rBV	885180	2068468	49.67%	12.300%
3	6.736	932	944	966	rBV	628435	1502446	36.08%	8.934%
4	7.229	1027	1038	1073	rBV	1349221	2990780	71.82%	17.784%
5	8.902	1344	1357	1397	rBV	1955188	4164185	100.00%	24.761%
6	10.579	1666	1677	1719	rBV	1673371	3397662	81.59%	20.203%
7	11.985	1933	1945	1971	rBV	1290070	2641840	63.44%	15.709%

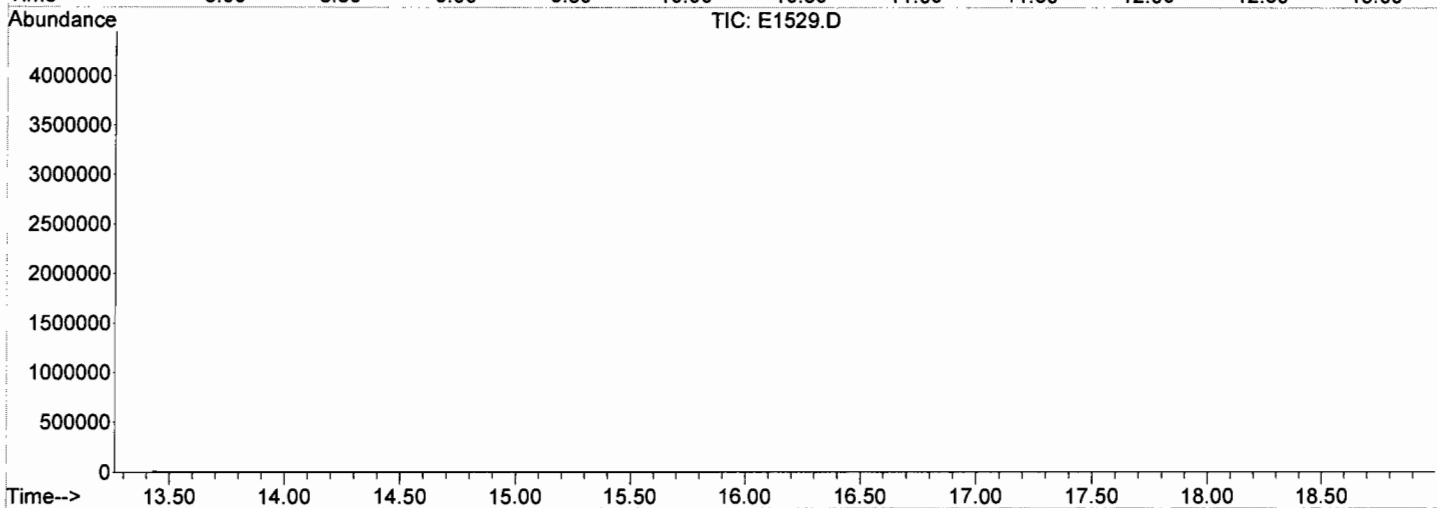
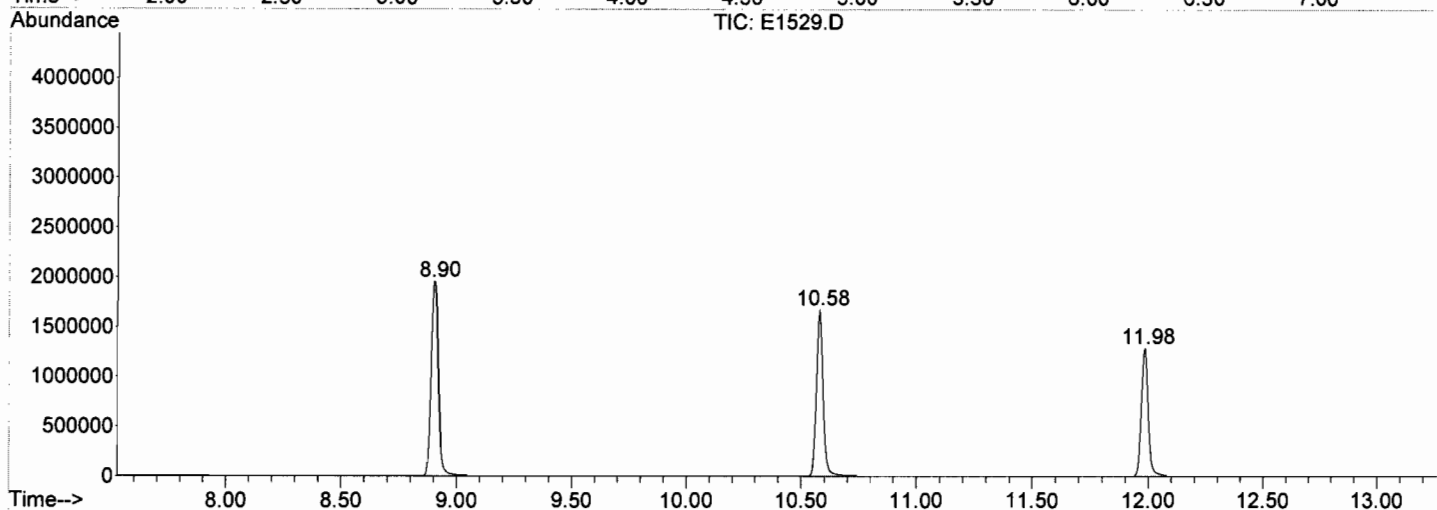
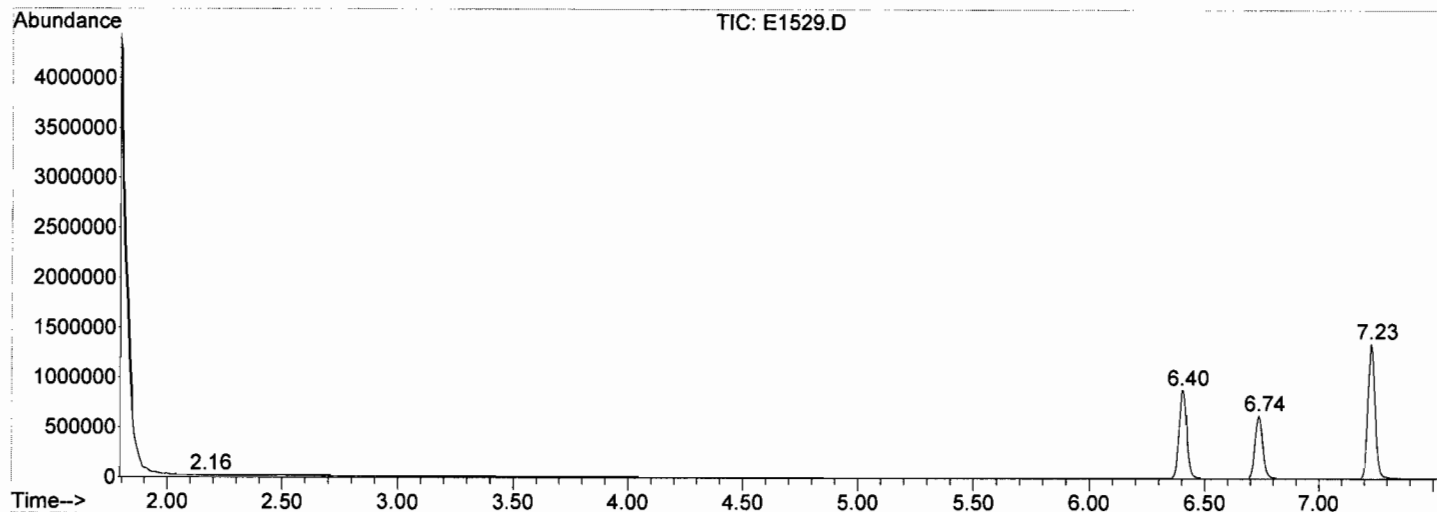
Sum of corrected areas: 16817357

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1529.D
Acq On : 18 Sep 2017 13:44
Operator : BARBARA
Sample : BLKA170918,BLKA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1553.D
Acq On : 19 Sep 2017 1:39
Operator : BARBARA
Sample : BLKA170918a,BLKA170918a,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 19 09:48:14 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	544445	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1013002	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	801723	50.00	UG	0.00

System Monitoring Compounds

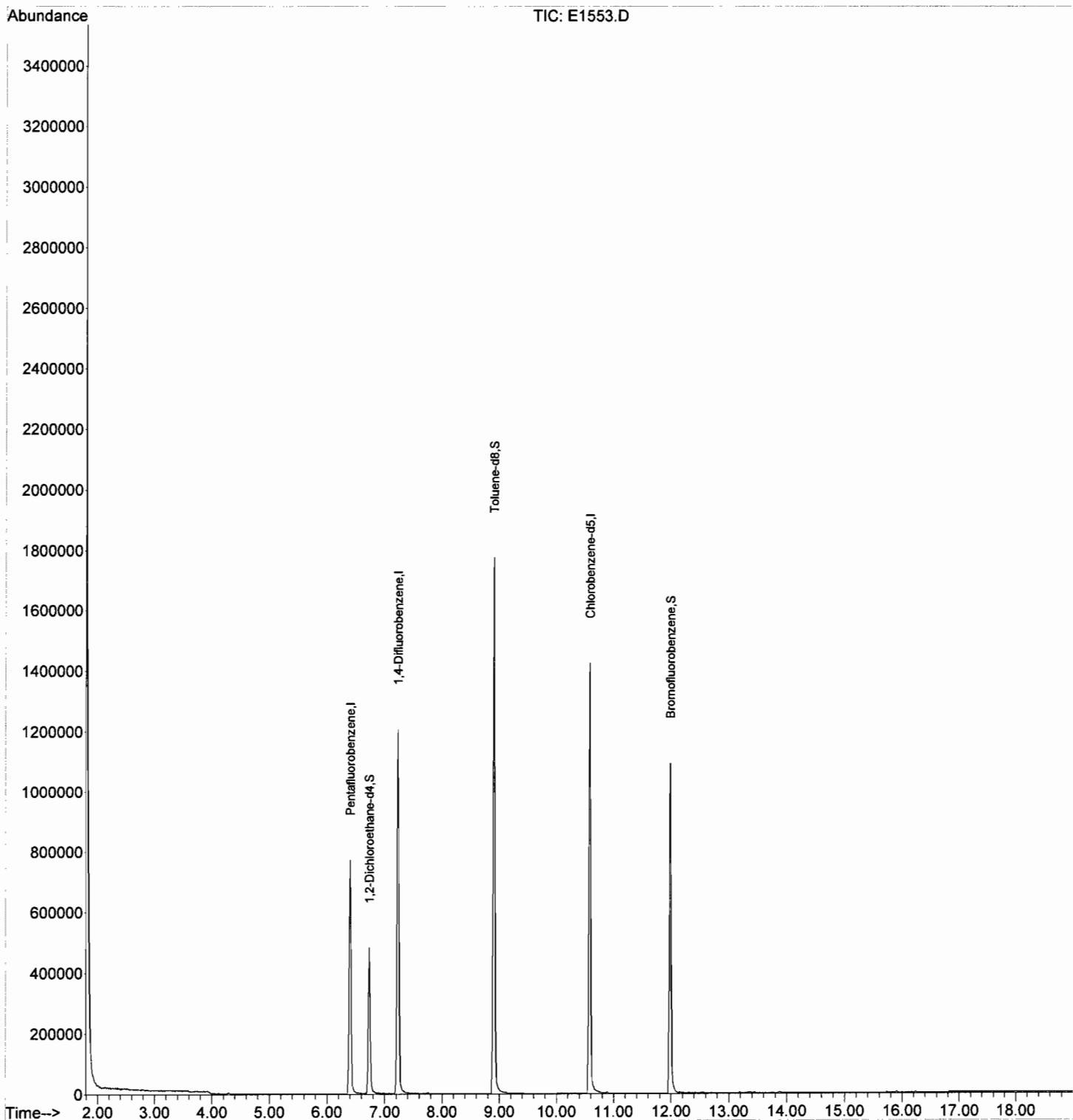
30) 1,2-Dichloroethane-d4	6.73	65	385786	41.67	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	83.34%
41) Toluene-d8	8.90	98	1263981	48.79	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.58%
59) Bromofluorobenzene	11.98	95	429368	45.61	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	91.22%

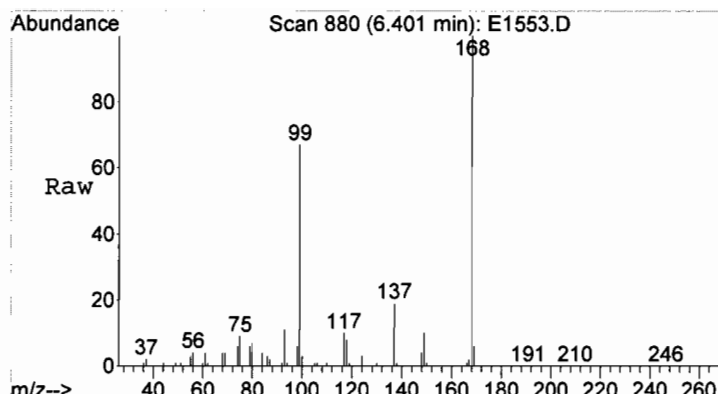
Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1553.D
Acq On : 19 Sep 2017 1:39
Operator : BARBARA
Sample : BLKA170918a,BLKA170918a,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 27 Sample Multiplier: 1

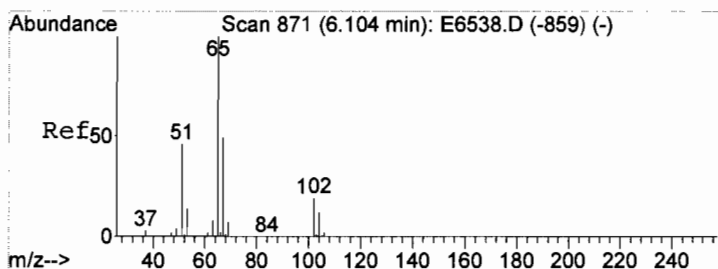
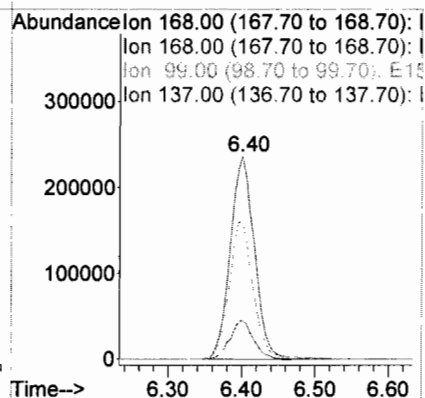
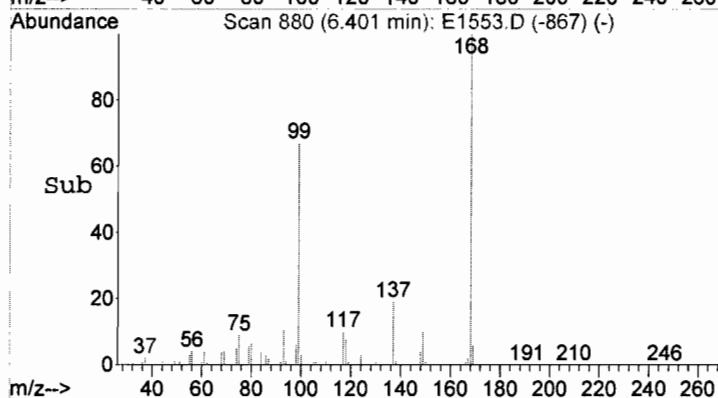
Quant Time: Sep 19 09:48:14 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration





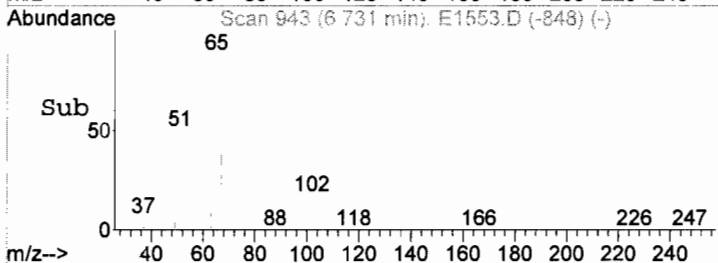
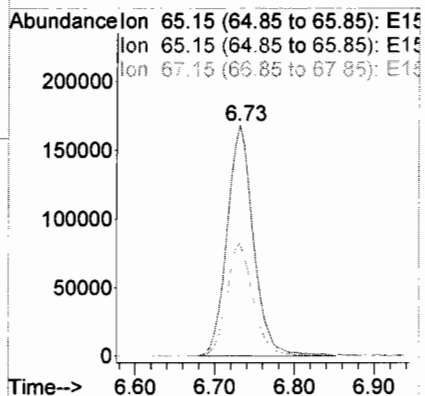
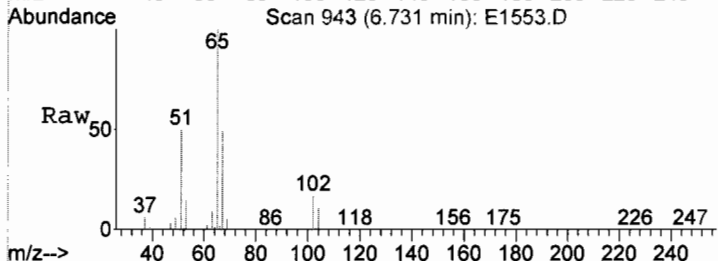
#1
Pentafluorobenzene
Concen: 50.00 UG
RT: 6.40 min Scan# 880
Delta R.T. 0.00 min
Lab File: E1553.D
Acq: 19 Sep 2017 1:39

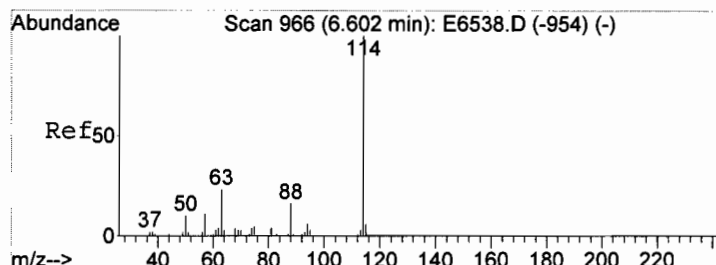
Tgt Ion	Ratio	Lower	Upper
168	100		
168	100.0	80.0	120.0
99	0.0	0.0	0.0
137	0.0	0.0	0.0



#30
1,2-Dichloroethane-d4
Concen: 41.67 UG
RT: 6.73 min Scan# 943
Delta R.T. 0.00 min
Lab File: E1553.D
Acq: 19 Sep 2017 1:39

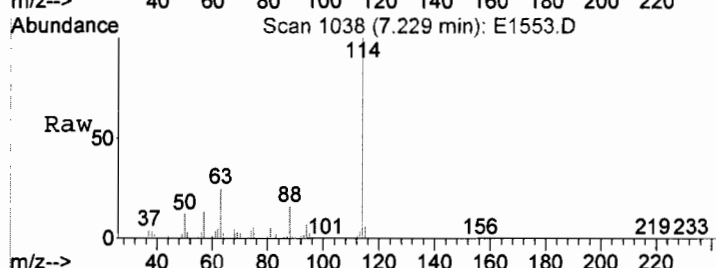
Tgt Ion	Ratio	Lower	Upper
65	100		
65	100.0	80.0	120.0
67	49.5	43.2	64.8



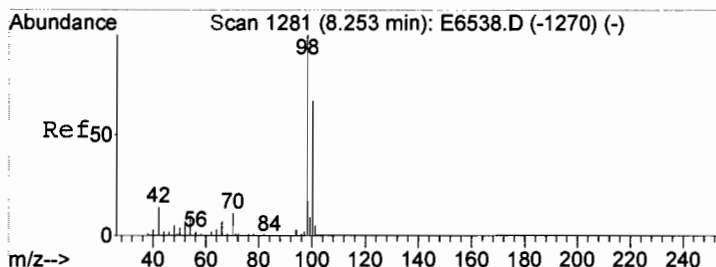
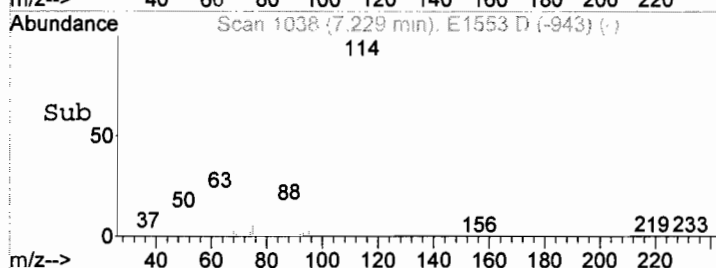
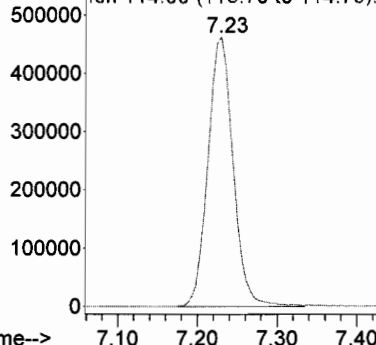


#31
1,4-Difluorobenzene
Concen: 50.00 UG
RT: 7.23 min Scan# 1038
Delta R.T. 0.00 min
Lab File: E1553.D
Acq: 19 Sep 2017 1:39

Tgt Ion: 114 Resp: 1013002
Ion Ratio Lower Upper
114 100
114 100.0 80.0 120.0

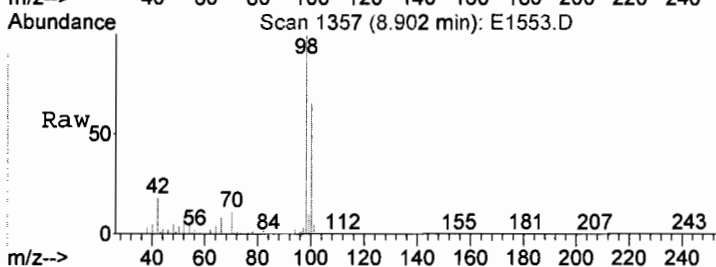


Abundance Ion 114.00 (113.70 to 114.70): I
Ion 114.00 (113.70 to 114.70): I

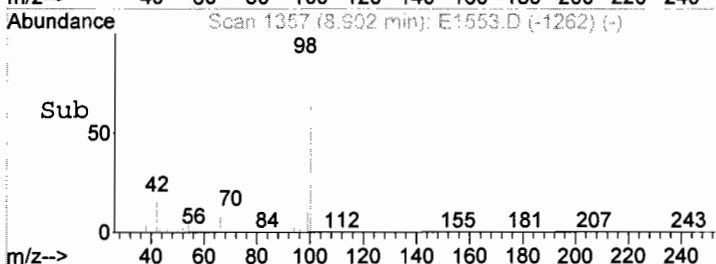
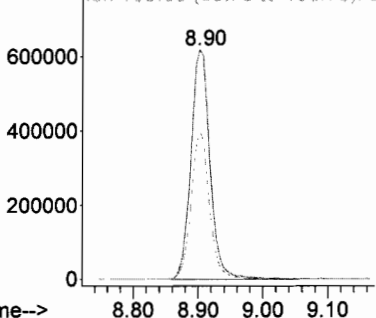


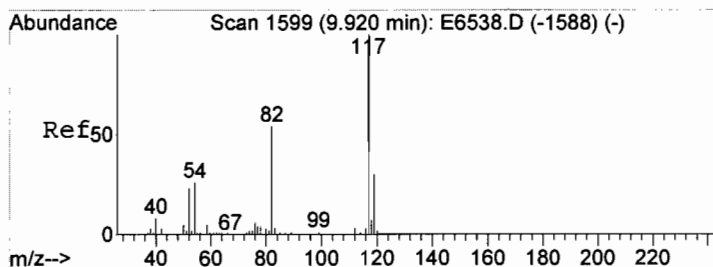
#41
Toluene-d8
Concen: 48.79 UG
RT: 8.90 min Scan# 1357
Delta R.T. 0.00 min
Lab File: E1553.D
Acq: 19 Sep 2017 1:39

Tgt Ion: 98 Resp: 1263981
Ion Ratio Lower Upper
98 100
98 100.0 80.0 120.0
100 61.9 53.4 80.0



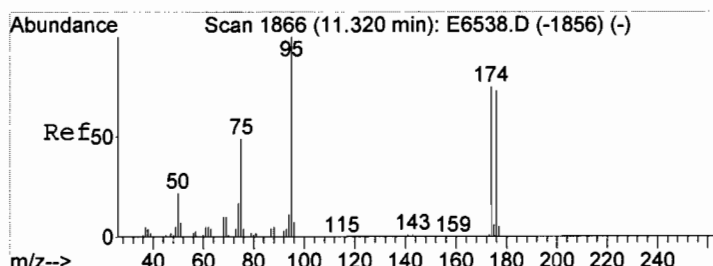
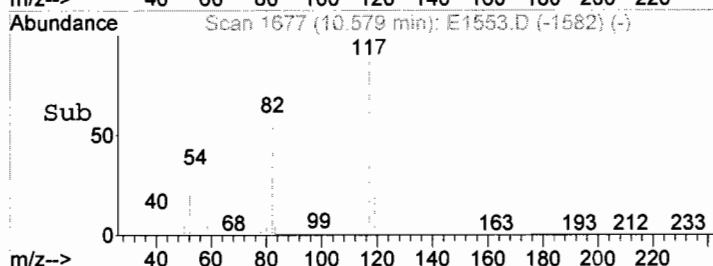
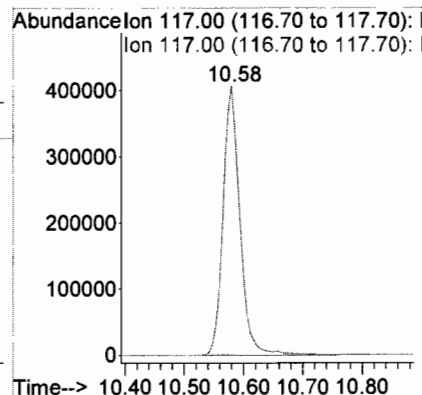
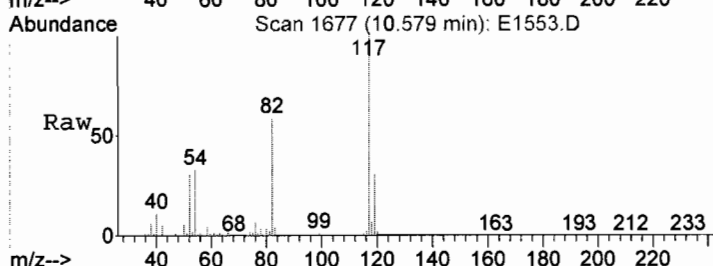
Abundance Ion 98.00 (97.70 to 98.70): E15
Ion 98.00 (97.70 to 98.70): E15
Ion 100.00 (99.70 to 100.70): E15





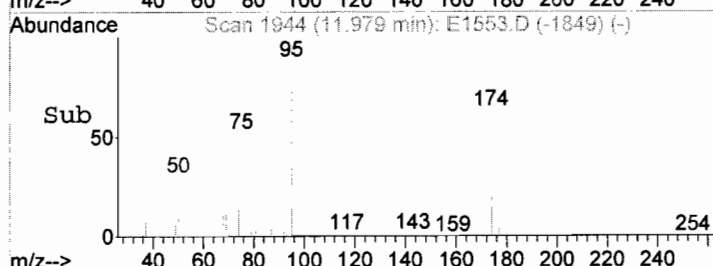
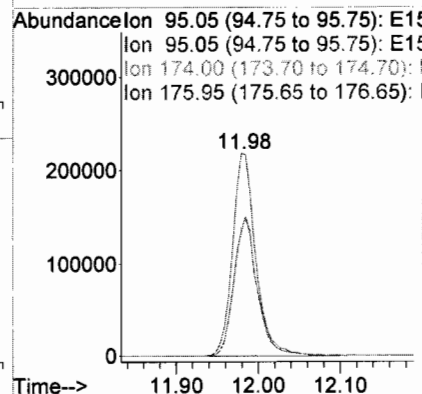
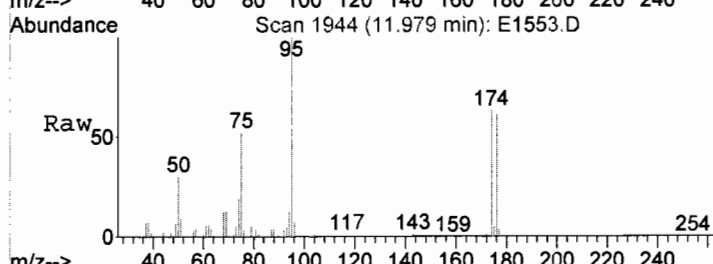
#50
Chlorobenzene-d5
Concen: 50.00 UG
RT: 10.58 min Scan# 1677
Delta R.T. 0.00 min
Lab File: E1553.D
Acq: 19 Sep 2017 1:39

Tgt Ion: 117 Resp: 801723
Ion Ratio Lower Upper
117 100
117 100.0 80.0 120.0



#59
Bromofluorobenzene
Concen: 45.61 UG
RT: 11.98 min Scan# 1944
Delta R.T. 0.00 min
Lab File: E1553.D
Acq: 19 Sep 2017 1:39

Tgt Ion: 95 Resp: 429368
Ion Ratio Lower Upper
95 100
95 100.0 80.0 120.0
174 67.7 62.9 94.3
176 69.2 60.5 90.7



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1553.D
Acq On : 19 Sep 2017 1:39
Operator : BARBARA
Sample : BLKA170918a,BLKA170918a,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.1
Stop Thrs : 0.1
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.474	128	131	170	rVB3	6245	37161	1.01%	0.256%
2	6.401	866	880	902	rBV	773068	1834829	49.90%	12.621%
3	6.731	929	943	970	rBV	479899	1107491	30.12%	7.618%
4	7.229	1024	1038	1068	rBV	1205853	2674125	72.73%	18.394%
5	8.902	1346	1357	1392	rBV2	1775770	3677033	100.00%	25.293%
6	10.579	1665	1677	1722	rBV	1425944	2968322	80.73%	20.418%
7	11.985	1933	1945	1972	rBV2	1094612	2238815	60.89%	15.400%

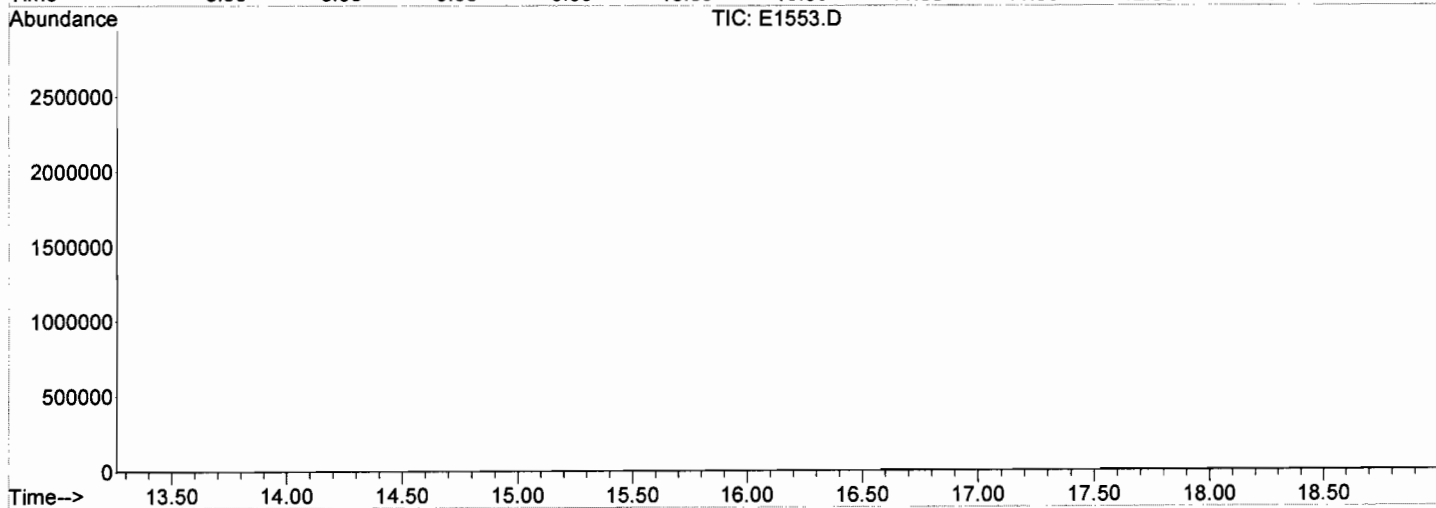
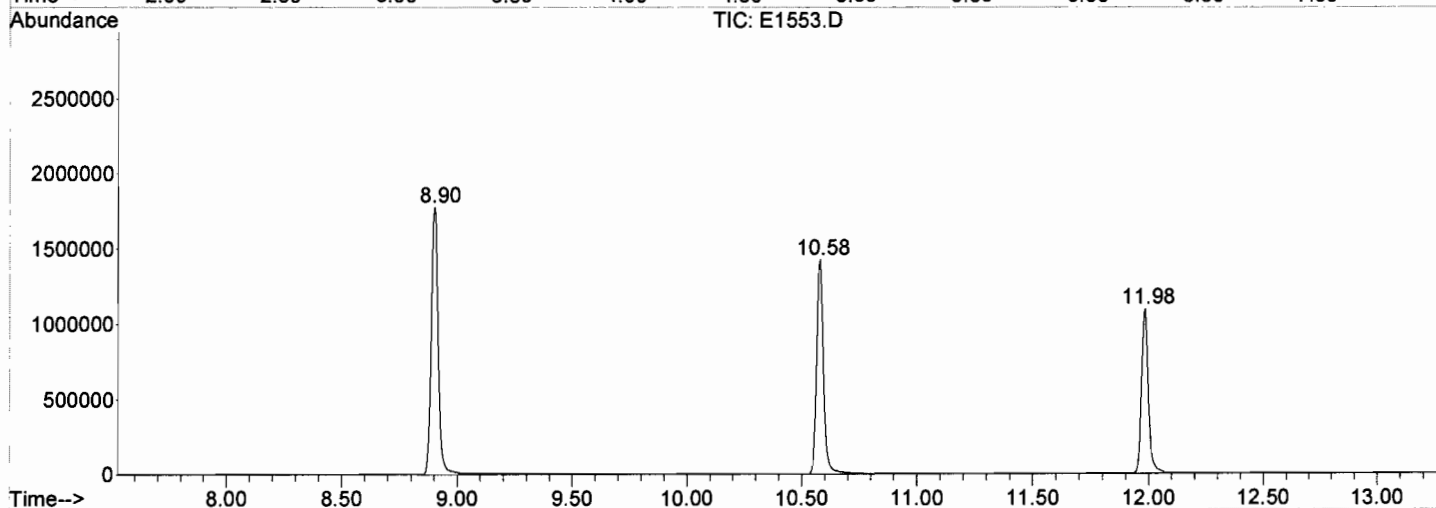
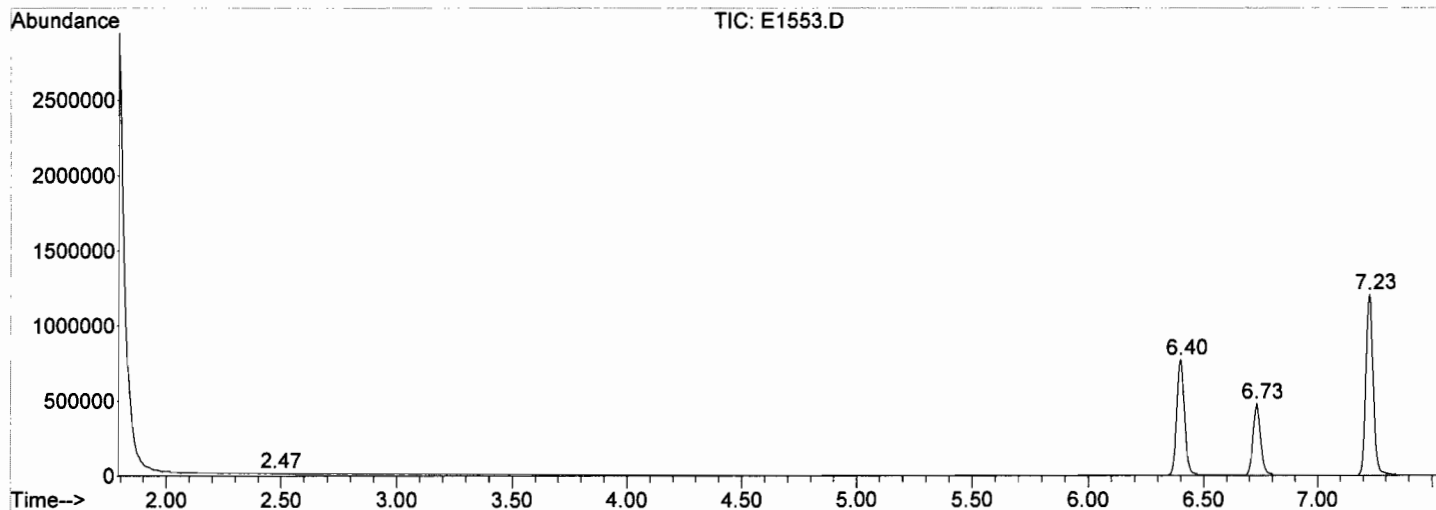
Sum of corrected areas: 14537776

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1553.D
Acq On : 19 Sep 2017 1:39
Operator : BARBARA
Sample : BLKA170918a,BLKA170918a,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P



DATE: 9/12/2017 12:46
INSTRUMENT: MSD-K

TUNE FILE: BFB_VOK
SEQUENCE FILE:
METHOD/CAL FILE: 8260C

ANALYST: Barbara Berberian

FRACTION: 624 524.2

BATCH: 

STANDARD	Lot #	Exp. Date	CONC.
BFB	L2728	09/16/17	25 ug/ml
ISTD/SURR (4100)	L2746	12/11/17	50 ug/ml
ISTD/SURR (4560)	L2747	12/11/17	250 ug/ml
Primary Mix	L2745	12/07/17	40 ug/ml
Primary Ac/Ac	L2738	09/23/17	1000 ug/ml
1,4-Dioxane	L2748	11/14/17	10000 ug/ml
Secondary Mix	L2732	09/27/17	40 ug/ml
Secondary Ac/Ac	L2744	11/28/17	1000 ug/ml
Secondary 1,4-Dioxane	L2729	09/16/17	10000 ug/ml
MeOH	L21082	10/01/17	

Vial #	Data File	Case #	Samp #	Vol (ml)	% Moist	Test	Method	VIAL #	pH<2 ?	Status
1	E1454	BFBA170912	BFBA170912	5	100		8260C			1:48
2	E1455	ICC00.5	ICC170912	5	100		8260C			OK
3	E1456	ICC001	ICC170912	5	100		8260C			OK
4	E1457	ICC005	ICC170912	5	100		8260C			OK
5	E1458	ICC020	ICC170912	5	100		8260C			OK
6	E1459	ICC100	ICC170912	5	100		8260C			OK
7	E1460	ICC150	ICC170912	5	100		8260C			OK
8	E1461	ICC200	ICC170912	5	100		8260C			OK
9	E1462	RB	RB	5	100		8260C			
10	E1463	ICV100	ICV170912	5	100		8260C			OK
11	E1464	RB		5	100		8260C			
12	E1465	RB		5	100		8260C			
13	E1466	BLKA170912	BLKA170912	5	100		8260C			OK
14	E1467	7745	13	5	100	01 List Volatiles + Cis 1,2-DC	8260C	2	YES	OK
15	E1468	7622	3	5	100	TCL VO + 15	8260C	2	YES	OK
16	E1469	7663	2	5	100	TCL VO + 15	8260C	2	YES	OK
17	E1470	7702	1	5	100	TCL VO + 15	8260C	2	YES	OK
18	E1471	7702	2	5	100	TCL VO + 15	8260C	2	YES	OK
19	E1472	7702	3	5	100	TCL VO + 15	8260C	2	YES	OK
20	E1473	7691	1	5	100	TCL VO + 15	8260C	2	YES	OK
21	E1474	7720	1	5	100	TCL VO + 15	8260C	2	YES	OK
22	E1475	LCSA170912	LCSA170912	5	100		8260C			OK
23	E1476	7691	1MS	5	100		8260C		YES	OK
24	E1477	7691	1MSD	5	100		8260C		YES	OK

DATE: 9/18/2017 12:46
INSTRUMENT: MSD-K

TUNE FILE: BFB_VOK
SEQUENCE FILE:
METHOD/CAL FILE: 8260C

ANALYST: Barbara Berberian

FRACTION: 624 524.2

BATCH: 

STANDARD	Lot #	Exp. Date	CONC.
BFB	L2751	12/18/17	25 ug/ml
ISTD/SURR (4100)	L2746	12/11/17	50 ug/ml
ISTD/SURR (4560)	L2747	12/11/17	250 ug/ml
Primary Mix	L2745	12/07/17	40 ug/ml
Primary Ac/Ac	L2738	09/23/17	1000 ug/ml
1,4-Dioxane	L2748	11/14/17	10000 ug/ml
Secondary Mix	L2732	09/27/17	40 ug/ml
Secondary Ac/Ac	L2744	11/28/17	1000 ug/ml
Secondary 1,4-Dioxane	L2750	12/15/17	10000 ug/ml
MeOH	L21082	10/01/17	

Vial #	Data File	Case #	Samp #	Vol (ml)	% Moist	Test	Method	VIAL #	pH<2 ?	Status
1	E1525	BFBA170918	BFBA170918	5	100		8260C			11:45
2	E1526	CCV100	CCV170918	5	100		8260C			OK
1	E1527	RB		5	100		8260C			
2	E1528	RB		5	100		8260C			
3	E1529	BLKA170918	BLKA170918	5	100		8260C			OK
	E1530	7838	1	5	100	TCL VO + 15	8260C	2	YES	OK
	E1531	7838	2	5	100	TCL VO + 15	8260C	2	YES	OK
6	E1532	7838	3	5	100	TCL VO + 15	8260C	2	YES	OK
7	E1533	7838	4	5	100	TCL VO + 15	8260C	2	YES	OK
8	E1534	7838	5	5	100	TCL VO + 15	8260C	2	YES	OK
9	E1535	7838	6	5	100	TCL VO + 15	8260C	2	YES	OK
10	E1536	7838	7	5	100	TCL VO + 15	8260C	2	YES	OK
11	E1537	7836	2	1	100	TCL VO + 15	8260C	2	YES	OK
12	E1538	7836	3	0.1	100	TCL VO + 15	8260C	2	YES	OK
13	E1539	LCSA170918		5	100		8260C			OK
14	E1540	7782	5MS	5	100		8260C		YES	OK
15	E1541	7782	5MSD	5	100		8260C		YES	OK
16	E1542	7838	6DL	1	100		8260C	1	YES	OK
17	E1543	7782	5	5	100	TCL VO + 15	8260C	2	YES	OK
18	E1544	7782	6	5	100	TCL VO + 15	8260C	2	YES	OK
19	E1545	7782	7	5	100	TCL VO + 15	8260C	2	YES	OK
20	E1546	7782	8	5	100	TCL VO + 15	8260C	2	YES	OK
21	E1547	7782	9	5	100	TCL VO + 15	8260C	2	YES	OK
22	E1548	7782	10	5	100	TCL VO + 15	8260C	2	YES	OK
23	E1549	BFBA170918	BFB170918a	5			8260C			11:40
24	E1550	CCV100	CCV170918a	5			8260C			OK
25	E1551	RB		5			8260C			
26	E1552	RB		5			8260C			
27	E1553	BLKA170918a	BLKA170918a	5			8260C			OK
28	E1554	7689	1	5	100	TCL VO + 15	8260C	2	YES	OK
29	E1555	LCSA170918a	LCSA170918a	5			8260C			OK
30	E1556	7838	8MS	5			8260C		YES	OK
31	E1557	7838	8MSD	5			8260C		YES	OK
32	E1558	RB		5			8260C			
33	E1559	7838	8	5	100	TCL VO + 15	8260C	2	YES	OK
34	E1560	7838	9	5	100	TCL VO + 15	8260C	2	YES	OK
35	E1561	7838	10	5	100	TCL VO + 15	8260C	2	YES	OK
36	E1562	7838	11	5	100	TCL VO + 15	8260C	2	YES	OK

DATE: 9/18/2017 12:46
INSTRUMENT: MSD-K
TUNE FILE: BFB_VOK
SEQUENCE FILE:
METHOD/CAL FILE: 8260C
ANALYST: Barbara Berberian
FRACTION: 624 524.2
BATCH:

STANDARD	Lot #	Exp. Date	CONC.
BFB	L2751	12/18/17	25 ug/ml
ISTD/SURR (4100)	L2746	12/11/17	50 ug/ml
ISTD/SURR (4560)	L2747	12/11/17	250 ug/ml
Primary Mix	L2745	12/07/17	40 ug/ml
Primary Ac/Ac	L2738	09/23/17	1000 ug/ml
1,4-Dioxane	L2748	11/14/17	10000 ug/ml
Secondary Mix	L2732	09/27/17	40 ug/ml
Secondary Ac/Ac	L2744	11/28/17	1000 ug/ml
Secondary 1,4-Dioxane	L2750	12/15/17	10000 ug/ml
MeOH	L21082	10/01/17	

Vial #	Data File	Case #	Samp #	Vol (ml)	% Moist	Test	Method	VIAL #	pH<2 ?	Status
37	E1563	7838	12	5	100	TCL VO + 15	8260C	2	YES	OK
38	E1564	7838	13	5	100	TCL VO + 15	8260C	2	YES	OK
39	E1565	7838	14	5	100	TCL VO + 15	8260C	2	YES	OK
40	E1566	7838	15	5	100	TCL VO + 15	8260C	2	YES	OK
41	E1567	7838	16	5	100	TCL VO + 15	8260C	2	YES	OK
42	E1568	7838	17	5	100	TCL VO + 15	8260C	2	YES	OK
43	E1569	7794	1	5	100	L VO + 15; TCL VO + 15 + T	8260C	2	YES	OK
44	E1570	7736	1	0.01	100	TCL VO + 15	8260C	2	YES	OK
45	E1571	7838	14DL	2.5	100	TCL VO + 15	8260C	2	YES	OK
46	E1572	7838	7DL	1	100	TCL VO + 15	8260C	2	YES	OK

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1539.D
 Acq On : 18 Sep 2017 18:42
 Operator : BARBARA
 Sample : LCSA170918,LCSA170918,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 02 17:27:13 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	613408	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1111548	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	900208	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	480820	46.10	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	92.20%
41) Toluene-d8	8.90	98	1445545	50.86	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.72%
59) Bromofluorobenzene	11.98	95	534971	50.61	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	101.22%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	207748	46.29	UG	99
3) Chloromethane	2.10	50	493865	42.19	UG	100
4) Vinyl chloride	2.24	62	451585	51.49	UG	99
5) Bromomethane	2.63	94	158696	56.86	UG	99
6) Chloroethane	2.76	64	196015	48.05	UG	100
7) Trichlorofluoromethane	3.07	101	392316	60.85	UG	100
9) 1,1-Dichloroethene	3.70	96	340589	49.69	UG	# 100
10) Acetone	4.19	43	469423	115.63	UG	99
11) Carbon disulfide	3.96	76	914053	55.03	UG	99
12) Vinyl acetate	4.19	43	538459	39.83	UG	99
13) Methylene chloride	4.30	84	390662	53.00	UG	# 68
14) Acrylonitrile	4.60	53	443351	112.82	UG	# 100
15) tert-Butyl alcohol (TBA)	4.49	59	73549	87.23	UG	99
16) trans-1,2-Dichloroethene	4.63	96	352293	50.80	UG	# 68
17) Methyl tert-butyl ether (M	4.65	73	913000	45.08	UG	100
18) 1,1-Dichloroethane	5.13	63	787519	51.83	UG	99
19) Diisopropyl ether (DIPE)	5.24	45	1843958	55.89	UG	# 48
20) cis-1,2-Dichloroethene	5.81	96	403953	52.37	UG	# 100
21) 2,2-Dichloropropane	5.81	77	421880	63.67	UG	98
22) 2-Butanone (MEK)	5.83	43	319805	72.60	UG	# 94
23) Bromochloromethane	6.08	128	164797	45.74	UG	# 99
25) Chloroform	6.17	83	692868	51.62	UG	98
26) 1,1,1-Trichloroethane	6.38	97	554887	57.79	UG	# 82
27) Carbon tetrachloride	6.57	117	474515	55.78	UG	99
28) 1,1-Dichloropropene	6.57	75	532025	50.84	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.82	62	622824	46.59	UG	# 99
32) Benzene	6.81	78	1566923	49.87	UG	100
33) Trichloroethene	7.52	95	377477	48.65	UG	91
34) 1,2-Dichloropropane	7.78	63	470309	49.69	UG	# 100
35) Dibromomethane	7.91	93	214444	43.68	UG	# 37
36) 1,4-Dioxane	7.24	88	103918	1527.46	UG	100
37) Bromodichloromethane	8.08	83	539082	50.52	UG	# 68
39) cis-1,3-Dichloropropene	8.59	75	628939	52.62	UG	# 98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	739955	80.28	UG	# 95
42) Toluene	8.98	92	960868	49.97	UG	97
43) trans-1,3-Dichloropropene	9.22	75	510879	45.63	UG	# 79
44) 1,1,2-Trichloroethane	9.43	83	257858	43.02	UG	95

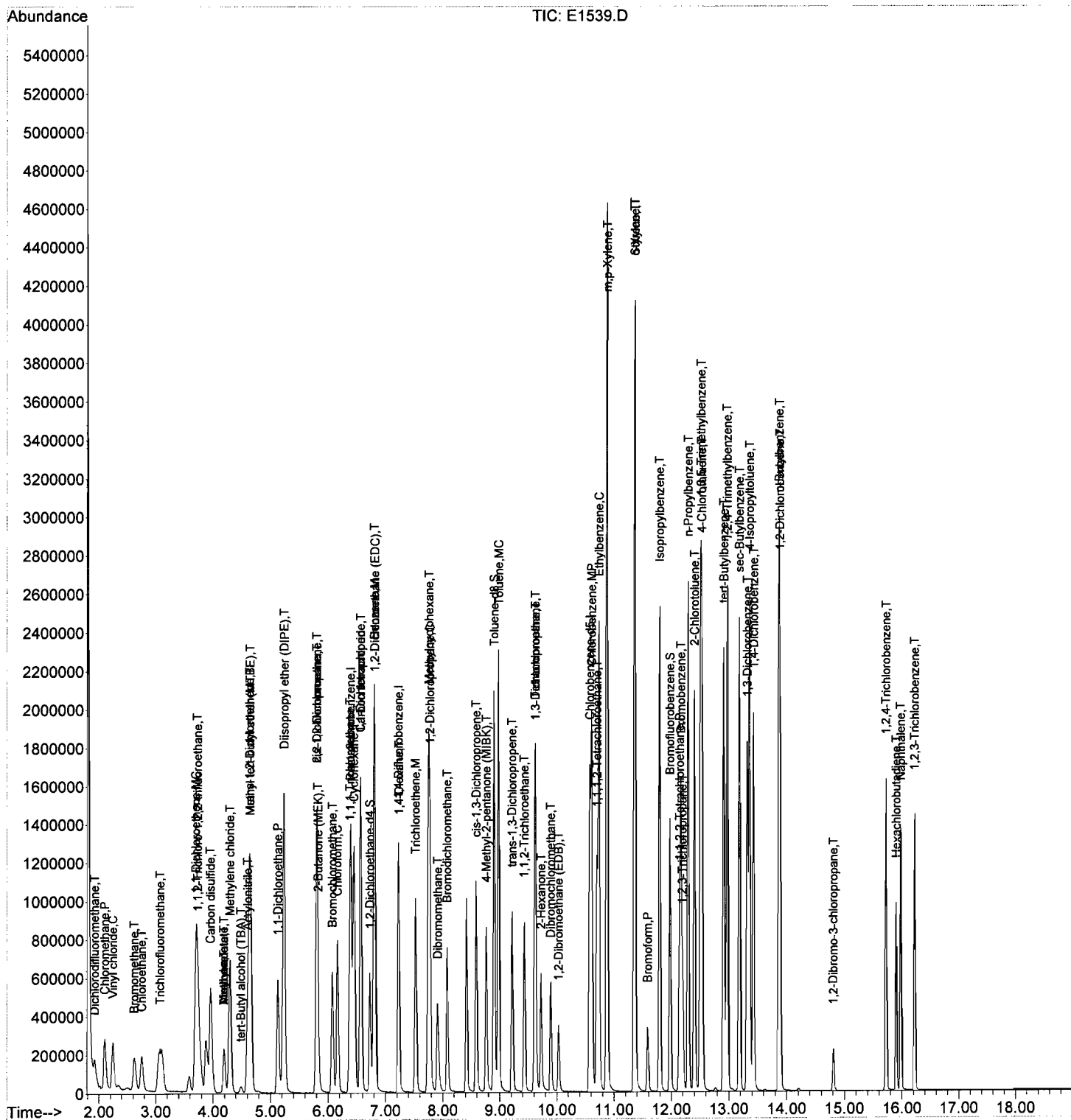
45)	Tetrachloroethene	9.62	166	330274	51.55	UG	#	100
46)	1,3-Dichloropropane	9.63	76	540545	44.07	UG		100
47)	2-Hexanone	9.72	43	515989	76.48	UG		94
48)	Dibromochloromethane	9.89	129	308962	44.06	UG		99
49)	1,2-Dibromoethane (EDB)	10.03	107	273871	44.62	UG		99
51)	Chlorobenzene	10.61	112	1037445	49.43	UG	#	73
52)	1,1,1,2-Tetrachloroethane	10.71	131	348647	51.08	UG	#	99
53)	Ethylbenzene	10.74	91	1884169	51.34	UG		98
54)	m,p-Xylene	10.88	106	1369433	100.80	UG		90
55)	o-Xylene	11.36	106	689920	54.33	UG		90
56)	Styrene	11.37	104	1171615	53.63	UG	#	100
57)	Bromoform	11.59	173	163599	41.82	UG	#	63
58)	Isopropylbenzene	11.80	105	1785201	54.75	UG		99
60)	1,1,2,2-Tetrachloroethane	12.14	83	382374	38.46	UG	#	98
61)	Bromobenzene	12.17	156	392631	50.04	UG	#	100
62)	1,2,3-Trichloropropane	12.20	75	346731	38.65	UG	#	1
63)	n-Propylbenzene	12.29	91	2272160	52.07	UG		98
64)	2-Chlorotoluene	12.40	91	1314151	50.81	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	1551556	53.62	UG		98
66)	4-Chlorotoluene	12.53	91	1577734	50.97	UG		98
67)	tert-Butylbenzene	12.91	119	1210162	56.60	UG	#	1
68)	1,2,4-Trimethylbenzene	12.97	105	1589582	51.22	UG		98
69)	sec-Butylbenzene	13.18	105	1923027	55.70	UG		99
70)	1,3-Dichlorobenzene	13.32	146	798562	51.44	UG	#	100
71)	4-Isopropyltoluene	13.36	119	1589147	56.32	UG	#	100
72)	1,4-Dichlorobenzene	13.43	146	798467	50.51	UG		100
73)	n-Butylbenzene	13.86	91	1566984	56.44	UG		98
74)	1,2-Dichlorobenzene	13.89	146	763936	51.75	UG	#	81
75)	1,2-Dibromo-3-chloropropan	14.81	75	56625	35.23	UG	#	80
76)	1,2,4-Trichlorobenzene	15.73	180	458736	52.14	UG		100
77)	Hexachlorobutadiene	15.90	225	166070	53.11	UG		100
78)	Naphthalene	15.98	128	951425	43.61	UG		100
79)	1,2,3-Trichlorobenzene	16.23	180	393597	48.44	UG		99
80)	1,1,2-Trichloro-1,2,2-trif	3.74	101	363034	55.38	UG		93
81)	Methyl acetate	4.19	43	742706	53.37	UG		100
82)	Cyclohexane	6.46	56	893943	51.23	UG	#	75
83)	Methylcyclohexane	7.75	83	657674	51.99	UG	#	49

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Mon Oct 02 17:29:03 2017 RT1

```
Data Path : C:\MSDCHEM\1\DATA\09-18-17\  
Data File : E1539.D  
Acq On    : 18 Sep 2017  18:42  
Operator  : BARBARA  
Sample    : LCSA170918,LCSA170918,A,5mL,100  
Misc      : NA,NA,NA,1  
ALS Vial  : 13      Sample Multiplier: 1
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Quant Time: Oct 02 17:27:13 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1555.D
 Acq On : 19 Sep 2017 2:39
 Operator : BARBARA
 Sample : LCSA170918a,LCSA170918a,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 02 17:43:09 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	657905	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1216181	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	966442	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	458840	41.01	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	82.02%
41) Toluene-d8	8.90	98	1575862	50.67	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.34%
59) Bromofluorobenzene	11.98	95	545210	48.04	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	96.08%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	249180	51.76	UG	99
3) Chloromethane	2.10	50	571723	45.54	UG	100
4) Vinyl chloride	2.24	62	531312	56.48	UG	99
5) Bromomethane	2.63	94	175008	58.46	UG	99
6) Chloroethane	2.75	64	248312	56.75	UG	100
7) Trichlorofluoromethane	3.07	101	372191	53.82	UG	99
8) Acrolein	3.57	56	80921	53.11	UG	# 100
9) 1,1-Dichloroethene	3.70	96	382474	52.02	UG	# 100
10) Acetone	4.19	43	466245	107.08	UG	99
11) Carbon disulfide	3.96	76	965234	54.18	UG	99
12) Vinyl acetate	4.19	43	650956	44.90	UG	100
13) Methylene chloride	4.30	84	420903	53.24	UG	# 68
14) Acrylonitrile	4.60	53	535163	126.97	UG	100
15) tert-Butyl alcohol (TBA)	4.49	59	73997	81.82	UG	100
16) trans-1,2-Dichloroethene	4.63	96	403189	54.20	UG	# 100
17) Methyl tert-butyl ether (M	4.65	73	842694	38.80	UG	100
18) 1,1-Dichloroethane	5.13	63	916088	56.21	UG	99
19) Diisopropyl ether (DIPE)	5.24	45	1890330	53.42	UG	48
20) cis-1,2-Dichloroethene	5.80	96	452815	54.73	UG	100
21) 2,2-Dichloropropane	5.81	77	392803	55.27	UG	99
22) 2-Butanone (MEK)	5.83	43	385314	81.55	UG	99
23) Bromochloromethane	6.08	128	165117	42.73	UG	99
25) Chloroform	6.17	83	779950	54.18	UG	98
26) 1,1,1-Trichloroethane	6.39	97	656766	63.77	UG	# 90
27) Carbon tetrachloride	6.57	117	529175	58.00	UG	99
28) 1,1-Dichloropropene	6.56	75	593623	52.89	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.81	62	593947	41.42	UG	# 86
32) Benzene	6.80	78	1756057	51.08	UG	100
33) Trichloroethene	7.52	95	431887	50.87	UG	90
34) 1,2-Dichloropropane	7.77	63	488925	47.22	UG	# 100
35) Dibromomethane	7.91	93	212923	39.64	UG	100
36) 1,4-Dioxane	7.23	88	117629	1580.24	UG	99
37) Bromodichloromethane	8.08	83	541939	46.42	UG	98
39) cis-1,3-Dichloropropene	8.59	75	586327	44.83	UG	98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	885815	87.84	UG	99
42) Toluene	8.98	92	1018138	48.39	UG	97
43) trans-1,3-Dichloropropene	9.22	75	459682	37.53	UG	# 78

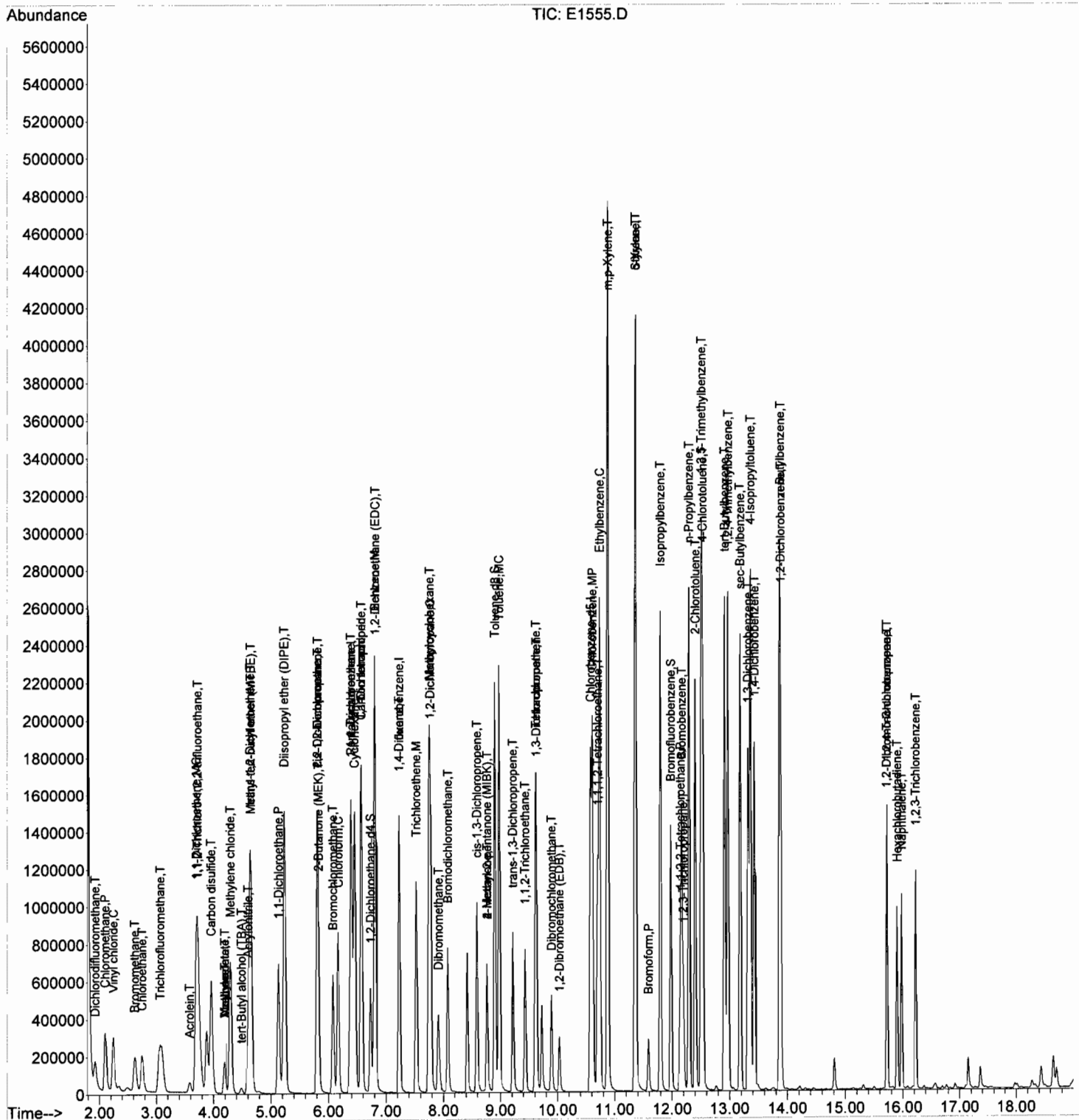
44)	1,1,2-Trichloroethane	9.43	83	249278	38.01	UG		99
45)	Tetrachloroethene	9.61	166	343354	48.98	UG	#	99
46)	1,3-Dichloropropane	9.63	76	479074	35.70	UG		100
47)	2-Hexanone	8.77	43	637241	86.33	UG		99
48)	Dibromochloromethane	9.89	129	282879	36.87	UG		100
49)	1,2-Dibromoethane (EDB)	10.03	107	284699	42.39	UG		99
51)	Chlorobenzene	10.61	112	1065249	47.27	UG	#	73
52)	1,1,1,2-Tetrachloroethane	10.71	131	369157	50.38	UG	#	100
53)	Ethylbenzene	10.74	91	2016705	51.18	UG		99
54)	m,p-Xylene	10.88	106	1470339	100.81	UG		90
55)	o-Xylene	11.36	106	730252	53.56	UG		90
56)	Styrene	11.37	104	1188788	50.68	UG	#	100
57)	Bromoform	11.59	173	158095	47.64	UG		100
58)	Isopropylbenzene	11.80	105	1924307	54.98	UG		99
60)	1,1,2,2-Tetrachloroethane	12.14	83	601418	56.34	UG		100
61)	Bromobenzene	12.17	156	376733	44.72	UG	#	100
62)	1,2,3-Trichloropropane	12.20	75	427928	44.43	UG		100
63)	n-Propylbenzene	12.29	91	2401867	51.27	UG		98
64)	2-Chlorotoluene	12.40	91	1397983	50.35	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	1643044	52.89	UG		98
66)	4-Chlorotoluene	12.54	91	1658654	49.91	UG		98
67)	tert-Butylbenzene	12.91	119	1355700	59.06	UG	#	1
68)	1,2,4-Trimethylbenzene	12.97	105	1742464	52.30	UG		97
69)	sec-Butylbenzene	13.18	105	2018881	54.47	UG		99
70)	1,3-Dichlorobenzene	13.32	146	796529	47.79	UG		99
71)	4-Isopropyltoluene	13.36	119	1690653	55.81	UG		100
72)	1,4-Dichlorobenzene	13.43	146	797549	47.00	UG		100
73)	n-Butylbenzene	13.87	91	1624721	54.51	UG		98
74)	1,2-Dichlorobenzene	13.89	146	719309	45.38	UG	#	81
75)	1,2-Dibromo-3-chloropropan	15.71	75	69026	40.00	UG		99
76)	1,2,4-Trichlorobenzene	15.72	180	428765	45.39	UG		100
77)	Hexachlorobutadiene	15.91	225	175554	52.29	UG		100
78)	Naphthalene	15.98	128	737595	31.50	UG		100
79)	1,2,3-Trichlorobenzene	16.23	180	324064	37.15	UG		100
80)	1,1,2-Trichloro-1,2,2-trif	3.73	101	397740	56.51	UG		91
81)	Methyl acetate	4.19	43	615682	41.21	UG		100
82)	Cyclohexane	6.45	56	1006521	53.73	UG	#	74
83)	Methylcyclohexane	7.75	83	691793	50.94	UG	#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Mon Oct 02 17:44:31 2017 RT1

```
Data Path : C:\MSDCHEM\1\DATA\09-18-17\  
Data File : E1555.D  
Acq On    : 19 Sep 2017    2:39  
Operator  : BARBARA  
Sample    : LCSA170918a,LCSA170918a,A,5mL,100  
Misc      : NA,NA,NA,1  
ALS Vial  : 29    Sample Multiplier: 1
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Quant Time: Oct 02 17:43:09 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1540.D
 Acq On : 18 Sep 2017 19:12
 Operator : BARBARA
 Sample : E17-07782-005MS, E17-07782-005MS, A, 5mL, 100
 Misc : NA, NA, NA, 1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 19 09:33:44 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	6.40	168	609628	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1117323	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	888791	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	452885	43.69	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	87.38%
41) Toluene-d8	8.90	98	1445154	50.58	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.16%
59) Bromofluorobenzene	11.98	95	516103	49.45	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	98.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	236182	52.95	UG	99
3) Chloromethane	2.10	50	513316	44.12	UG	100
4) Vinyl chloride	2.24	62	486019	55.76	UG	99
5) Bromomethane	2.62	94	213161	53.11	UG	99
6) Chloroethane	2.75	64	285523	56.73	UG	# 100
7) Trichlorofluoromethane	3.07	101	422956	60.31	UG	99
9) 1,1-Dichloroethene	3.71	96	360264	52.88	UG	# 100
10) Acetone	3.77	43	225985	87.91	UG	# 86
11) Carbon disulfide	3.96	76	1170228	57.49	UG	100
12) Vinyl acetate	4.19	43	394311	54.05	UG	# 100
13) Methylene chloride	4.30	84	394636	53.87	UG	# 98
14) Acrylonitrile	4.61	53	383443	188.00	UG	# 100
15) tert-Butyl alcohol (TBA)	4.48	59	40248	97.83	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	367527	53.32	UG	# 100
17) Methyl tert-butyl ether (M	4.65	73	835223	41.50	UG	100
18) 1,1-Dichloroethane	5.13	63	830751	55.01	UG	# 98
19) Diisopropyl ether (DIPE)	5.24	45	1787108	54.51	UG	# 48
20) cis-1,2-Dichloroethene	5.80	96	414709	54.10	UG	# 100
21) 2,2-Dichloropropane	5.81	77	461591	50.09	UG	98
22) 2-Butanone (MEK)	5.83	43	269361	101.53	UG	# 94
23) Bromochloromethane	6.08	128	160574	44.84	UG	# 99
25) Chloroform	6.16	83	710269	53.25	UG	99
26) 1,1,1-Trichloroethane	6.38	97	580443	60.82	UG	# 82
27) Carbon tetrachloride	6.57	117	491166	58.10	UG	100
28) 1,1-Dichloropropene	6.57	75	546061	52.51	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.82	62	574954	43.27	UG	# 100
32) Benzene	6.80	78	1612755	51.07	UG	100
33) Trichloroethene	7.52	95	382612	49.06	UG	92
34) 1,2-Dichloropropane	7.78	63	460505	48.41	UG	# 100
35) Dibromomethane	7.91	93	194910	39.50	UG	# 37
36) 1,4-Dioxane	7.23	88	104564m	1529.01	UG	
37) Bromodichloromethane	8.08	83	515500	48.06	UG	# 68
39) cis-1,3-Dichloropropene	8.59	75	580849	48.34	UG	98
40) 4-Methyl-2-pentanone (MIBK	8.76	43	610606	95.61	UG	# 96
42) Toluene	8.97	92	944761	48.88	UG	97
43) trans-1,3-Dichloropropene	9.22	75	467601	41.55	UG	# 78
44) 1,1,2-Trichloroethane	9.43	83	226823	37.65	UG	95

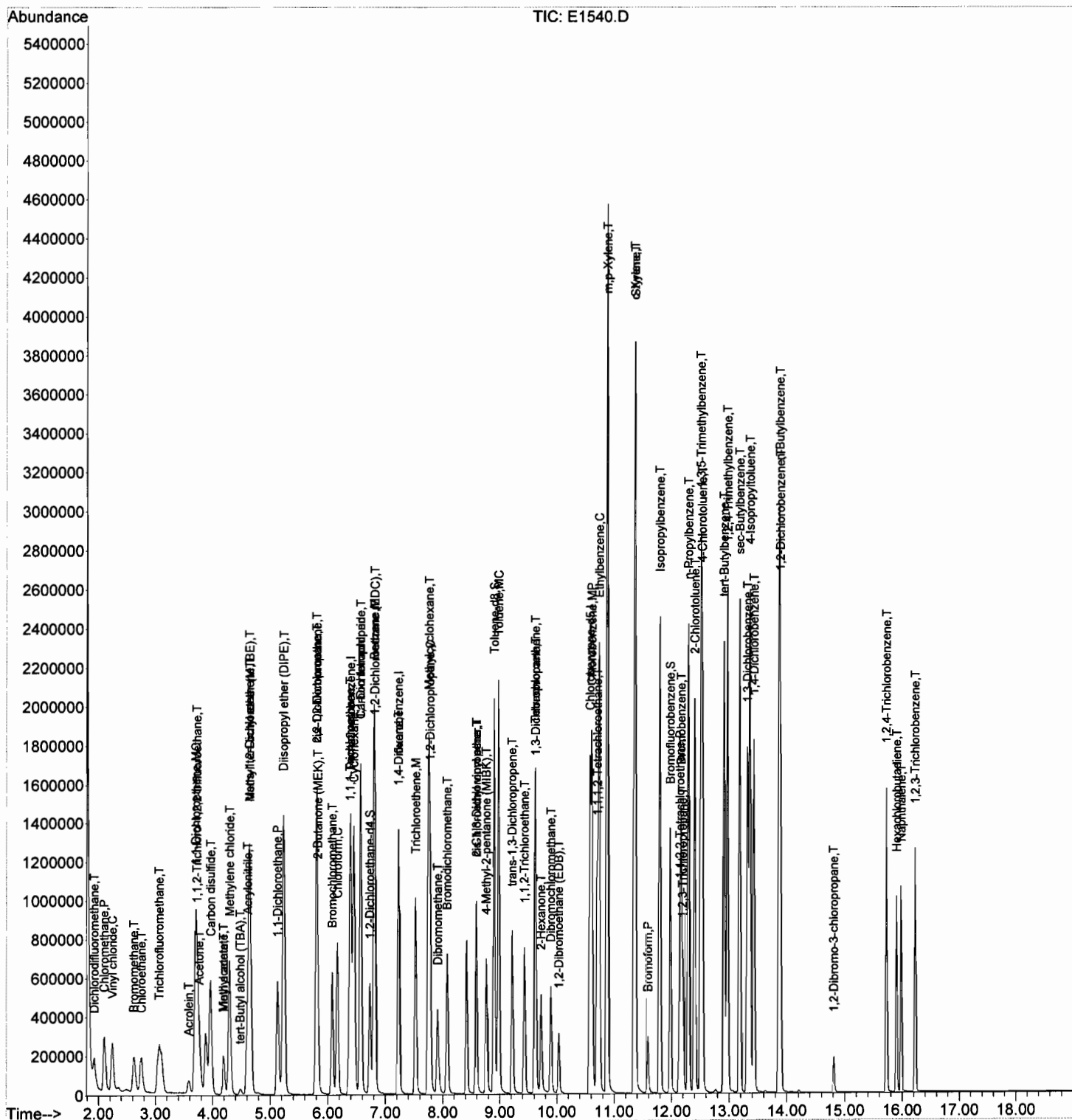
45)	Tetrachloroethene	9.61	166	324781	50.43	UG	#	99
46)	1,3-Dichloropropane	9.63	76	482586	37.60	UG		100
47)	2-Hexanone	9.72	43	429875	103.50	UG	#	93
48)	Dibromochloromethane	9.89	129	287795	40.83	UG		100
49)	1,2-Dibromoethane (EDB)	10.03	107	232729	37.72	UG		99
51)	Chlorobenzene	10.61	112	1009836	48.73	UG	#	73
52)	1,1,1,2-Tetrachloroethane	10.71	131	346630	51.44	UG	#	99
53)	Ethylbenzene	10.74	91	1826272	50.40	UG		99
54)	m,p-Xylene	10.88	106	1382561	103.07	UG		91
55)	o-Xylene	11.35	106	691815	55.18	UG		90
56)	Styrene	11.37	104	1130937	52.43	UG	#	100
57)	Bromoform	11.59	173	139884	36.22	UG	#	63
58)	Isopropylbenzene	11.80	105	1764038	54.80	UG		99
60)	1,1,2,2-Tetrachloroethane	12.14	83	324140	48.60	UG	#	97
61)	Bromobenzene	12.17	156	363976	46.98	UG	#	100
62)	1,2,3-Trichloropropane	12.20	75	301299	44.02	UG	#	1
63)	n-Propylbenzene	12.29	91	2198477	51.03	UG		98
64)	2-Chlorotoluene	12.40	91	1326513	51.95	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	1582583	55.40	UG		97
66)	4-Chlorotoluene	12.53	91	1546253	50.59	UG		98
67)	tert-Butylbenzene	12.91	119	1219645	57.77	UG	#	1
68)	1,2,4-Trimethylbenzene	12.97	105	1614376	52.69	UG		98
69)	sec-Butylbenzene	13.18	105	1953489	57.31	UG		99
70)	1,3-Dichlorobenzene	13.32	146	763461	49.81	UG	#	99
71)	4-Isopropyltoluene	13.36	119	1608331	57.74	UG	#	100
72)	1,4-Dichlorobenzene	13.43	146	780566	50.02	UG		100
73)	n-Butylbenzene	13.87	91	1589183	57.98	UG		98
74)	1,2-Dichlorobenzene	13.89	146	722429	49.56	UG	#	81
75)	1,2-Dibromo-3-chloropropan	14.82	75	47119	59.69	UG	#	49
76)	1,2,4-Trichlorobenzene	15.72	180	435359	50.12	UG		100
77)	Hexachlorobutadiene	15.90	225	167916	54.39	UG		100
78)	Naphthalene	15.98	128	768301	35.67	UG		100
79)	1,2,3-Trichlorobenzene	16.23	180	349675	43.59	UG		100
80)	1,1,2-Trichloro-1,2,2-trif	3.73	101	370841	57.29	UG		93
81)	Methyl acetate	4.19	43	394311	53.20	UG	#	81
82)	Cyclohexane	6.45	56	939801	54.55	UG	#	75
83)	Methylcyclohexane	7.75	83	658597	52.73	UG	#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Tue Oct 03 10:54:17 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1540.D
Acq On : 18 Sep 2017 19:12
Operator : BARBARA
Sample : E17-07782-005MS, E17-07782-005MS, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 19 09:33:44 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1541.D
 Acq On : 18 Sep 2017 19:42
 Operator : BARBARA
 Sample : E17-07782-005MSD,E17-07782-005MSD,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 19 09:34:13 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	6.40	168	631743	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1140076	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	929490	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	445282	41.45	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	82.90%
41) Toluene-d8	8.90	98	1477390	50.68	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.36%
59) Bromofluorobenzene	11.98	95	528301	48.40	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	96.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	227040	49.12	UG	100
3) Chloromethane	2.10	50	524624	43.51	UG	100
4) Vinyl chloride	2.24	62	486105	53.82	UG	99
5) Bromomethane	2.62	94	220094	56.57	UG	99
6) Chloroethane	2.76	64	285506	57.96	UG	# 100
7) Trichlorofluoromethane	3.06	101	441747	59.73	UG	100
8) Acrolein	3.58	56	94219	149.90	UG	# 100
9) 1,1-Dichloroethene	3.71	96	352073	49.87	UG	# 100
10) Acetone	3.78	43	225503	93.94	UG	97
11) Carbon disulfide	3.97	76	1163616	58.02	UG	100
12) Vinyl acetate	4.20	43	370903	56.64	UG	# 100
13) Methylene chloride	4.29	84	388960	51.24	UG	# 99
14) Acrylonitrile	4.60	53	366522	190.06	UG	# 100
15) tert-Butyl alcohol (TBA)	4.48	59	38968	94.87	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	362717	50.78	UG	# 100
17) Methyl tert-butyl ether (M	4.65	73	815910	39.12	UG	100
18) 1,1-Dichloroethane	5.13	63	825058	52.72	UG	99
19) Diisopropyl ether (DIPE)	5.23	45	1776731	52.29	UG	# 48
20) cis-1,2-Dichloroethene	5.80	96	417006	52.49	UG	# 100
21) 2,2-Dichloropropane	5.81	77	457106	57.88	UG	98
22) 2-Butanone (MEK)	5.83	43	253757	105.93	UG	# 95
23) Bromochloromethane	6.08	128	158755	42.78	UG	# 100
25) Chloroform	6.16	83	706430	51.11	UG	99
26) 1,1,1-Trichloroethane	6.38	97	581554	58.80	UG	# 82
27) Carbon tetrachloride	6.57	117	486548	55.54	UG	100
28) 1,1-Dichloropropene	6.56	75	540362	50.14	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.81	62	564722	41.01	UG	# 86
32) Benzene	6.80	78	1594745	49.49	UG	100
33) Trichloroethene	7.52	95	384555	48.32	UG	91
34) 1,2-Dichloropropane	7.77	63	459755	47.36	UG	# 100
35) Dibromomethane	7.91	93	190115	37.76	UG	# 91
36) 1,4-Dioxane	7.24	88	86891	1245.22	UG	100
37) Bromodichloromethane	8.08	83	517545	47.29	UG	# 69
39) cis-1,3-Dichloropropene	8.59	75	583753	47.62	UG	98
40) 4-Methyl-2-pentanone (MIBK	8.77	43	583953	90.87	UG	96
42) Toluene	8.98	92	941029	47.71	UG	97
43) trans-1,3-Dichloropropene	9.22	75	469203	40.86	UG	# 78

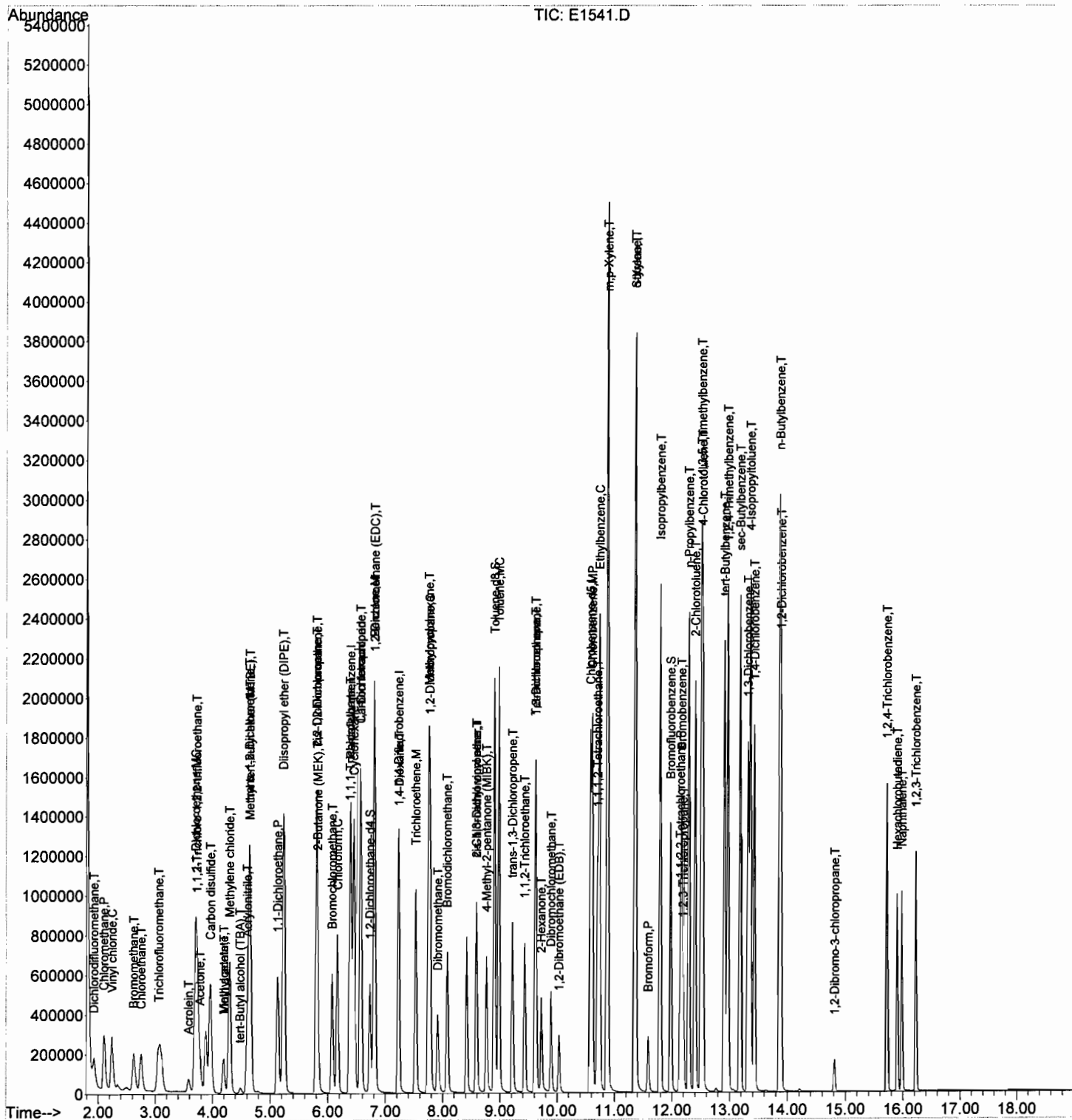
44)	1,1,2-Trichloroethane	9.44	83	225321	36.65	UG		95
45)	Tetrachloroethene	9.61	166	326149	49.63	UG	#	100
46)	1,3-Dichloropropane	9.63	76	473221	37.61	UG		100
47)	2-Hexanone	9.72	43	408907	109.59	UG	#	93
48)	Dibromochloromethane	9.89	129	277830	38.63	UG		100
49)	1,2-Dibromoethane (EDB)	10.03	107	228557	36.31	UG		99
51)	Chlorobenzene	10.61	112	1000173	46.15	UG	#	73
52)	1,1,1,2-Tetrachloroethane	10.71	131	346518	49.17	UG	#	100
53)	Ethylbenzene	10.74	91	1843418	48.64	UG		99
54)	m,p-Xylene	10.88	106	1379614	98.35	UG		90
55)	o-Xylene	11.36	106	680617	51.91	UG		89
56)	Styrene	11.37	104	1136512	50.38	UG	#	100
57)	Bromoform	11.59	173	136941	40.90	UG	#	63
58)	Isopropylbenzene	11.80	105	1781988	52.93	UG		99
60)	1,1,2,2-Tetrachloroethane	12.14	83	306841	49.89	UG		98
61)	Bromobenzene	12.17	156	366349	45.22	UG	#	100
62)	1,2,3-Trichloropropane	12.20	75	294004	41.74	UG	#	1
63)	n-Propylbenzene	12.29	91	2213231	49.12	UG		98
64)	2-Chlorotoluene	12.40	91	1324516	49.60	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	1551044	51.91	UG		98
66)	4-Chlorotoluene	12.53	91	1562856	48.90	UG		98
67)	tert-Butylbenzene	12.91	119	1235680	55.97	UG	#	1
68)	1,2,4-Trimethylbenzene	12.96	105	1636597	51.07	UG		98
69)	sec-Butylbenzene	13.18	105	1924983	54.00	UG		99
70)	1,3-Dichlorobenzene	13.32	146	775790	48.40	UG	#	99
71)	4-Isopropyltoluene	13.36	119	1590449	54.59	UG	#	100
72)	1,4-Dichlorobenzene	13.43	146	781954	47.91	UG		100
73)	n-Butylbenzene	13.87	91	1607714	56.08	UG		98
74)	1,2-Dichlorobenzene	13.89	146	718140	47.11	UG	#	81
75)	1,2-Dibromo-3-chloropropan	14.81	75	44218	56.94	UG	#	79
76)	1,2,4-Trichlorobenzene	15.72	180	419396	46.17	UG		99
77)	Hexachlorobutadiene	15.91	225	166113	51.45	UG		100
78)	Naphthalene	15.98	128	728060	37.82	UG		100
79)	1,2,3-Trichlorobenzene	16.23	180	333592	39.76	UG		100
80)	1,1,2-Trichloro-1,2,2-trif	3.73	101	365934	54.06	UG		93
81)	Methyl acetate	4.20	43	370903	55.91	UG	#	82
82)	Cyclohexane	6.45	56	911266	50.58	UG	#	74
83)	Methylcyclohexane	7.75	83	649785	49.75	UG	#	49

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Tue Oct 03 11:02:38 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1541.D
Acq On : 18 Sep 2017 19:42
Operator : BARBARA
Sample : E17-07782-005MSD,E17-07782-005MSD,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 19 09:34:13 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1556.D
 Acq On : 19 Sep 2017 3:09
 Operator : BARBARA
 Sample : E17-07838-008MS,E17-07838-008MS,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 19 09:15:01 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	6.40	168	691103	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.22	114	1244142	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	993378	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	462369	39.34	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	78.68%
41) Toluene-d8	8.90	98	1607535	50.53	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.06%
59) Bromofluorobenzene	11.98	95	563602	48.31	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	96.62%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	246029	48.65	UG	99
3) Chloromethane	2.10	50	571675	43.34	UG	100
4) Vinyl chloride	2.23	62	530003	53.64	UG	99
5) Bromomethane	2.62	94	228525	53.07	UG	98
6) Chloroethane	2.74	64	295250	56.74	UG	# 100
7) Trichlorofluoromethane	3.07	101	463838	60.25	UG	100
8) Acrolein	3.57	56	80519	50.30	UG	# 100
9) 1,1-Dichloroethene	3.70	96	369315	47.82	UG	# 100
10) Acetone	3.78	43	219824	87.86	UG	98
11) Carbon disulfide	3.95	76	1185006	57.50	UG	100
12) Vinyl acetate	4.19	43	342076	54.06	UG	# 100
13) Methylene chloride	4.29	84	407991	49.13	UG	# 98
14) Acrylonitrile	4.60	53	342532	188.01	UG	# 100
15) tert-Butyl alcohol (TBA)	4.49	59	40131	97.80	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	389887	49.90	UG	# 100
17) Methyl tert-butyl ether (M)	4.65	73	796706	38.92	UG	100
18) 1,1-Dichloroethane	5.13	63	874293	51.07	UG	99
19) Diisopropyl ether (DIPE)	5.23	45	1792166	48.22	UG	# 48
20) cis-1,2-Dichloroethene	5.80	96	444186	51.11	UG	# 100
21) 2,2-Dichloropropane	5.80	77	379039	50.77	UG	99
22) 2-Butanone (MEK)	5.83	43	233836	101.51	UG	# 95
23) Bromochloromethane	6.08	128	156525	38.56	UG	# 98
25) Chloroform	6.16	83	760767	50.31	UG	98
26) 1,1,1-Trichloroethane	6.38	97	623072	57.59	UG	# 82
27) Carbon tetrachloride	6.57	117	513196	53.55	UG	99
28) 1,1-Dichloropropene	6.57	75	572420	48.55	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.81	62	575730	38.22	UG	# 99
32) Benzene	6.80	78	1722780	48.99	UG	100
33) Trichloroethene	7.53	95	424521	48.88	UG	90
34) 1,2-Dichloropropane	7.78	63	481579	45.46	UG	# 99
35) Dibromomethane	7.91	93	188243	55.56	UG	# 91
36) 1,4-Dioxane	7.94	88	65228	1785.01	UG	# 100
37) Bromodichloromethane	8.08	83	529023	44.30	UG	# 68
38) 2-Chloroethyl vinyl ether	8.59	63	5364	0.90	UG	# 86
39) cis-1,3-Dichloropropene	8.59	75	579691	43.33	UG	98
40) 4-Methyl-2-pentanone (MIBK)	8.77	43	548402	95.60	UG	96
42) Toluene	8.97	92	1013628	47.10	UG	97

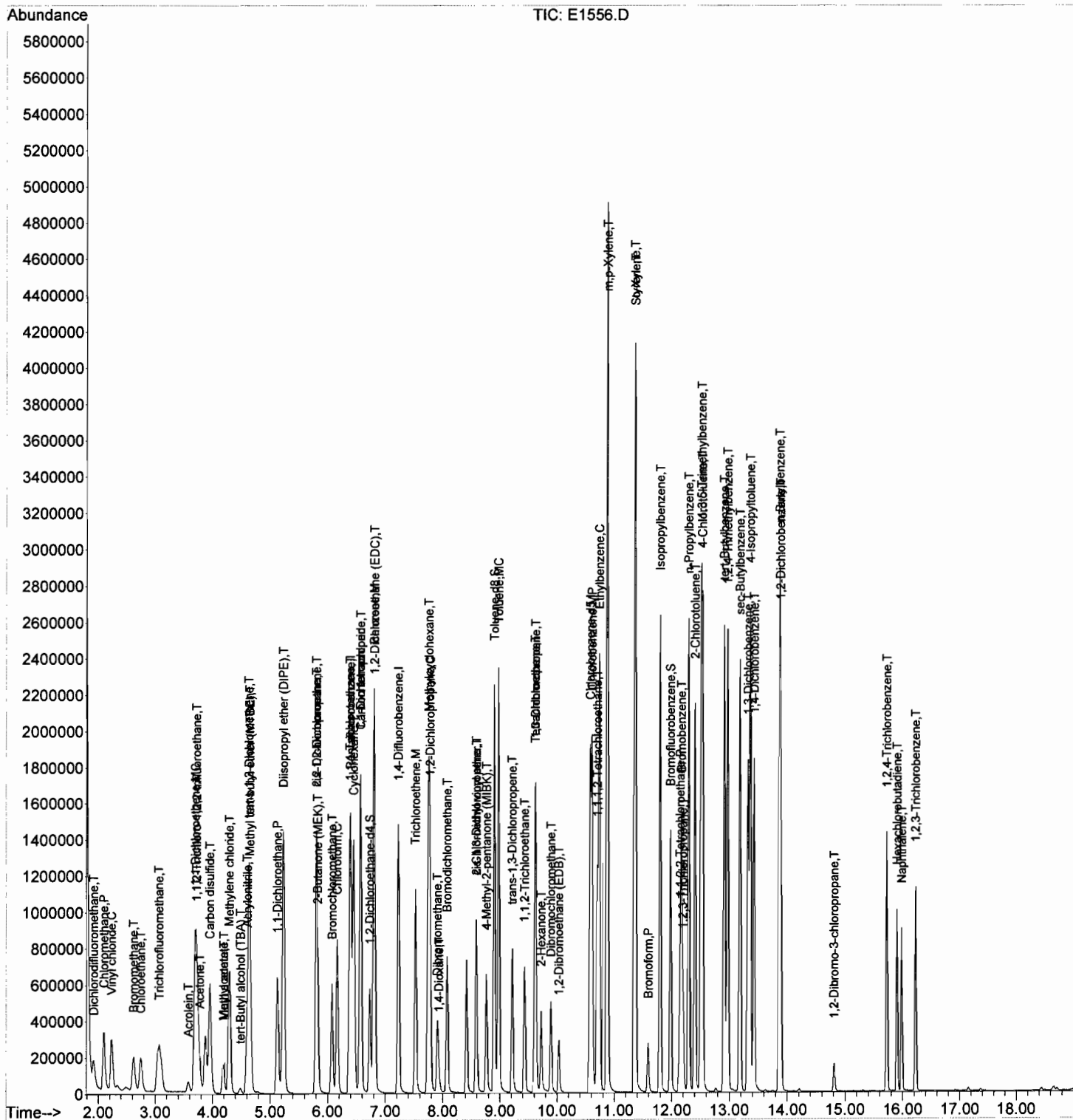
43)	trans-1,3-Dichloropropene	9.22	75	452508	36.11	UG	#	70
44)	1,1,2-Trichloroethane	9.43	83	218309	44.30	UG	#	78
45)	Tetrachloroethene	9.61	166	334527	46.65	UG	#	100
46)	1,3-Dichloropropane	9.63	76	467200	36.80	UG		100
47)	2-Hexanone	9.72	43	374987	103.46	UG		94
48)	Dibromochloromethane	9.89	129	279352	35.59	UG		100
49)	1,2-Dibromoethane (EDB)	10.03	107	225264	54.09	UG		100
51)	Chlorobenzene	10.61	112	1070027	46.20	UG	#	73
52)	1,1,1,2-Tetrachloroethane	10.71	131	362589	48.14	UG	#	100
53)	Ethylbenzene	10.74	91	1944853	48.02	UG		99
54)	m,p-Xylene	10.88	106	1471565	98.16	UG		91
55)	o-Xylene	11.35	106	730239	52.11	UG		90
56)	Styrene	11.37	104	1161255	48.17	UG	#	100
57)	Bromoform	11.59	173	132199	52.69	UG	#	63
58)	Isopropylbenzene	11.80	105	1913709	53.19	UG		99
60)	1,1,2,2-Tetrachloroethane	12.14	83	287330	48.59	UG		98
61)	Bromobenzene	12.17	156	369295	42.65	UG	#	99
62)	1,2,3-Trichloropropane	12.20	75	279713	44.00	UG	#	1
63)	n-Propylbenzene	12.29	91	2327418	48.33	UG		98
64)	2-Chlorotoluene	12.40	91	1385868	48.56	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	1636275	51.24	UG		97
66)	4-Chlorotoluene	12.54	91	1638561	47.97	UG		98
67)	tert-Butylbenzene	12.91	119	1304001	55.27	UG	#	1
68)	1,2,4-Trimethylbenzene	12.96	105	1669711	48.76	UG		98
69)	sec-Butylbenzene	13.19	105	1984666	52.10	UG		100
70)	1,3-Dichlorobenzene	13.32	146	792577	46.26	UG	#	99
71)	4-Isopropyltoluene	13.36	119	1633141	52.45	UG	#	100
72)	1,4-Dichlorobenzene	13.43	146	766753	43.96	UG		100
73)	n-Butylbenzene	13.86	91	1592957	51.99	UG		98
74)	1,2-Dichlorobenzene	13.89	146	704217	43.23	UG	#	81
75)	1,2-Dibromo-3-chloropropan	14.82	75	40105	59.71	UG	#	50
76)	1,2,4-Trichlorobenzene	15.72	180	394557	40.64	UG		100
77)	Hexachlorobutadiene	15.90	225	175757	50.93	UG		100
78)	Naphthalene	15.98	128	645970	51.33	UG		100
79)	1,2,3-Trichlorobenzene	16.23	180	306083	44.19	UG		100
80)	1,1,2-Trichloro-1,2,2-trif	3.73	101	389290	53.81	UG		92
81)	Methyl acetate	4.19	43	342076	53.17	UG	#	84
82)	Cyclohexane	6.45	56	959370	49.82	UG	#	74
83)	Methylcyclohexane	7.75	83	666647	47.75	UG	#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Mon Oct 02 17:50:58 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1556.D
Acq On : 19 Sep 2017 3:09
Operator : BARBARA
Sample : E17-07838-008MS,E17-07838-008MS,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 19 09:15:01 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1557.D
 Acq On : 19 Sep 2017 3:38
 Operator : BARBARA
 Sample : E17-07838-008MSD,E17-07838-008MSD,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 19 09:15:08 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	698160	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1272336	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	993585	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.73	65	464280	39.11	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	78.22%
41) Toluene-d8	8.90	98	1624564	49.93	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.86%
59) Bromofluorobenzene	11.98	95	560623	48.05	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	96.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.92	85	227552	44.55	UG	99
3) Chloromethane	2.10	50	547771	41.11	UG	100
4) Vinyl chloride	2.24	62	514044	51.50	UG	99
5) Bromomethane	2.62	94	216837	56.56	UG	100
6) Chloroethane	2.75	64	287210	58.00	UG	# 100
7) Trichlorofluoromethane	3.07	101	444355	59.65	UG	100
8) Acrolein	3.58	56	72225	145.67	UG	# 100
9) 1,1-Dichloroethene	3.70	96	356442	45.69	UG	# 100
10) Acetone	3.78	43	208967	93.90	UG	98
11) Carbon disulfide	3.96	76	1180995	58.00	UG	100
12) Vinyl acetate	4.19	43	330562	56.59	UG	# 100
13) Methylene chloride	4.30	84	399899	47.67	UG	# 68
14) Acrylonitrile	4.60	53	328159	191.07	UG	# 100
15) tert-Butyl alcohol (TBA)	4.48	59	39182	94.89	UG	# 100
16) trans-1,2-Dichloroethene	4.63	96	382614	48.47	UG	# 100
17) Methyl tert-butyl ether (M	4.65	73	791596	40.90	UG	100
18) 1,1-Dichloroethane	5.13	63	847557	49.01	UG	# 96
19) Diisopropyl ether (DIPE)	5.24	45	1763784	46.97	UG	# 48
20) cis-1,2-Dichloroethene	5.80	96	432067	49.21	UG	# 100
21) 2,2-Dichloropropane	5.81	77	362040	57.91	UG	98
22) 2-Butanone (MEK)	5.83	43	222033	105.89	UG	# 86
23) Bromochloromethane	6.08	128	155489	37.92	UG	# 100
25) Chloroform	6.17	83	751869	49.22	UG	98
26) 1,1,1-Trichloroethane	6.38	97	613285	56.11	UG	# 82
27) Carbon tetrachloride	6.57	117	506976	52.36	UG	99
28) 1,1-Dichloropropene	6.57	75	548820	46.08	UG	# 96
29) 1,2-Dichloroethane (EDC)	6.81	62	554227	36.42	UG	# 86
32) Benzene	6.80	78	1661158	46.19	UG	100
33) Trichloroethene	7.52	95	406589	45.78	UG	92
34) 1,2-Dichloropropane	7.77	63	469524	43.34	UG	# 100
35) Dibromomethane	7.91	93	183891	52.72	UG	# 37
36) 1,4-Dioxane	7.93	88	63449	1814.76	UG	# 100
37) Bromodichloromethane	8.08	83	516518	42.29	UG	98
38) 2-Chloroethyl vinyl ether	8.59	63	5001	0.82	UG	# 86
39) cis-1,3-Dichloropropene	8.59	75	554306	40.51	UG	# 98
40) 4-Methyl-2-pentanone (MIBK)	8.77	43	531145	90.85	UG	96
42) Toluene	8.98	92	976758	44.38	UG	98

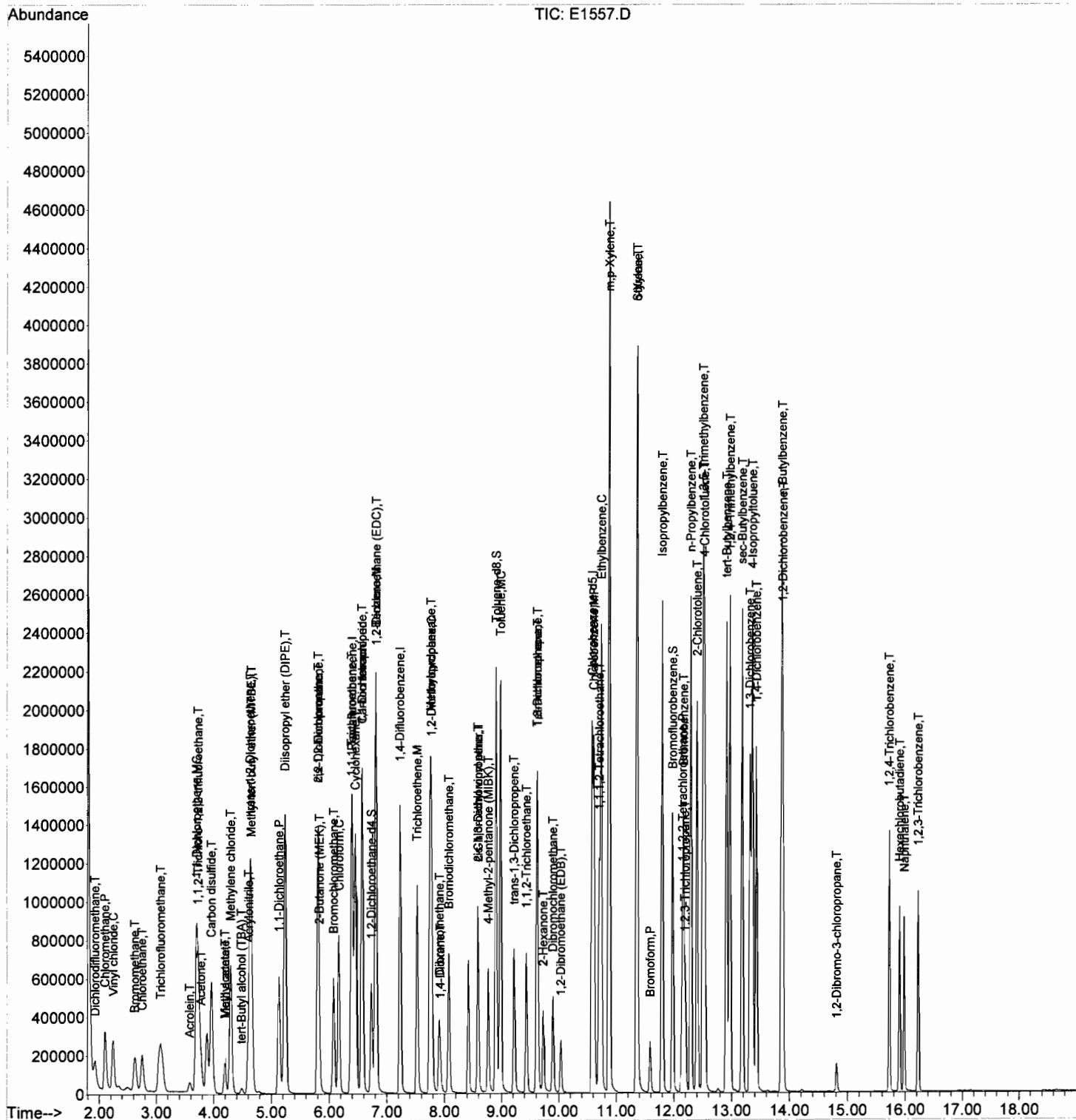
43)	trans-1,3-Dichloropropene	9.22	75	429284	40.50	UG	#	78
44)	1,1,2-Trichloroethane	9.43	83	210833	40.73	UG		95
45)	Tetrachloroethene	9.61	166	320812	43.74	UG	#	77
46)	1,3-Dichloropropane	9.63	76	447256	35.80	UG		100
47)	2-Hexanone	9.72	43	359333	109.59	UG	#	70
48)	Dibromochloromethane	9.89	129	273933	38.73	UG		99
49)	1,2-Dibromoethane (EDB)	10.03	107	214596	50.39	UG		100
51)	Chlorobenzene	10.61	112	1021041	44.07	UG	#	73
52)	1,1,1,2-Tetrachloroethane	10.71	131	349960	46.46	UG	#	99
53)	Ethylbenzene	10.74	91	1904697	47.02	UG		99
54)	m,p-Xylene	10.87	106	1398365	93.26	UG		89
55)	o-Xylene	11.36	106	698645	49.85	UG		92
56)	Styrene	11.37	104	1144580	47.47	UG	#	100
57)	Bromoform	11.59	173	123464	50.19	UG	#	63
58)	Isopropylbenzene	11.80	105	1850721	51.43	UG		99
60)	1,1,2,2-Tetrachloroethane	12.15	83	276207	49.87	UG		98
61)	Bromobenzene	12.17	156	351532	40.59	UG	#	99
62)	1,2,3-Trichloropropane	12.20	75	265664	41.69	UG	#	1
63)	n-Propylbenzene	12.29	91	2264685	47.02	UG		98
64)	2-Chlorotoluene	12.40	91	1347862	47.21	UG		100
65)	1,3,5-Trimethylbenzene	12.51	105	1602488	50.18	UG		98
66)	4-Chlorotoluene	12.53	91	1565073	45.81	UG		98
67)	tert-Butylbenzene	12.91	119	1258406	53.32	UG	#	1
68)	1,2,4-Trimethylbenzene	12.97	105	1617542	47.22	UG		98
69)	sec-Butylbenzene	13.18	105	1959537	51.43	UG		99
70)	1,3-Dichlorobenzene	13.32	146	746628	43.57	UG	#	100
71)	4-Isopropyltoluene	13.36	119	1572025	50.48	UG	#	100
72)	1,4-Dichlorobenzene	13.43	146	754528	43.25	UG		100
73)	n-Butylbenzene	13.87	91	1548492	50.53	UG		98
74)	1,2-Dichlorobenzene	13.89	146	679505	41.70	UG	#	81
75)	1,2-Dibromo-3-chloropropan	14.81	75	39070	56.92	UG	#	80
76)	1,2,4-Trichlorobenzene	15.72	180	378175	38.94	UG		99
77)	Hexachlorobutadiene	15.90	225	155285	44.99	UG		100
78)	Naphthalene	15.98	128	633480	47.83	UG		99
79)	1,2,3-Trichlorobenzene	16.23	181	353683	40.18	UG		92
81)	1,1,2-Trichloro-1,2,2-trif	3.73	101	299683	48.88	UG		92
81)	Methyl acetate	4.19	43	330562	55.92	UG	#	83
82)	Cyclohexane	6.45	56	894446	46.44	UG	#	76
83)	Methylcyclohexane	7.75	83	617223	44.20	UG	#	50

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E8091217.M Mon Oct 02 18:01:37 2017 RT1

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1557.D
Acq On : 19 Sep 2017 3:38
Operator : BARBARA
Sample : E17-07838-008MSD, E17-07838-008MSD, A, 5mL, 100
Misc : NA, NA, NA, 1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 19 09:15:08 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: BLKA170918
 Client ID: BLKA170918
 Date Received: NA
 Date Analyzed: 09/18/2017
 Data file: E1529.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	ND		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: BLKA170918
 Client ID: BLKA170918
 Date Received: NA
 Date Analyzed: 09/18/2017
 Data file: E1529.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 0

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: BLKA170918
Client ID: BLKA170918
Date Received: NA
Date Analyzed: 09/18/2017
Data file: E1529.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1529.D
 Acq On : 18 Sep 2017 13:44
 Operator : BARBARA
 Sample : BLKA170918,BLKA170918,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 18 17:13:24 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	616434	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1129461	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	922480	50.00	UG	0.00

System Monitoring Compounds

30) 1,2-Dichloroethane-d4	6.74	65	530596	50.62	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	101.24%
41) Toluene-d8	8.91	98	1432657	49.60	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.20%
59) Bromofluorobenzene	11.98	95	507952	46.89	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	93.78%

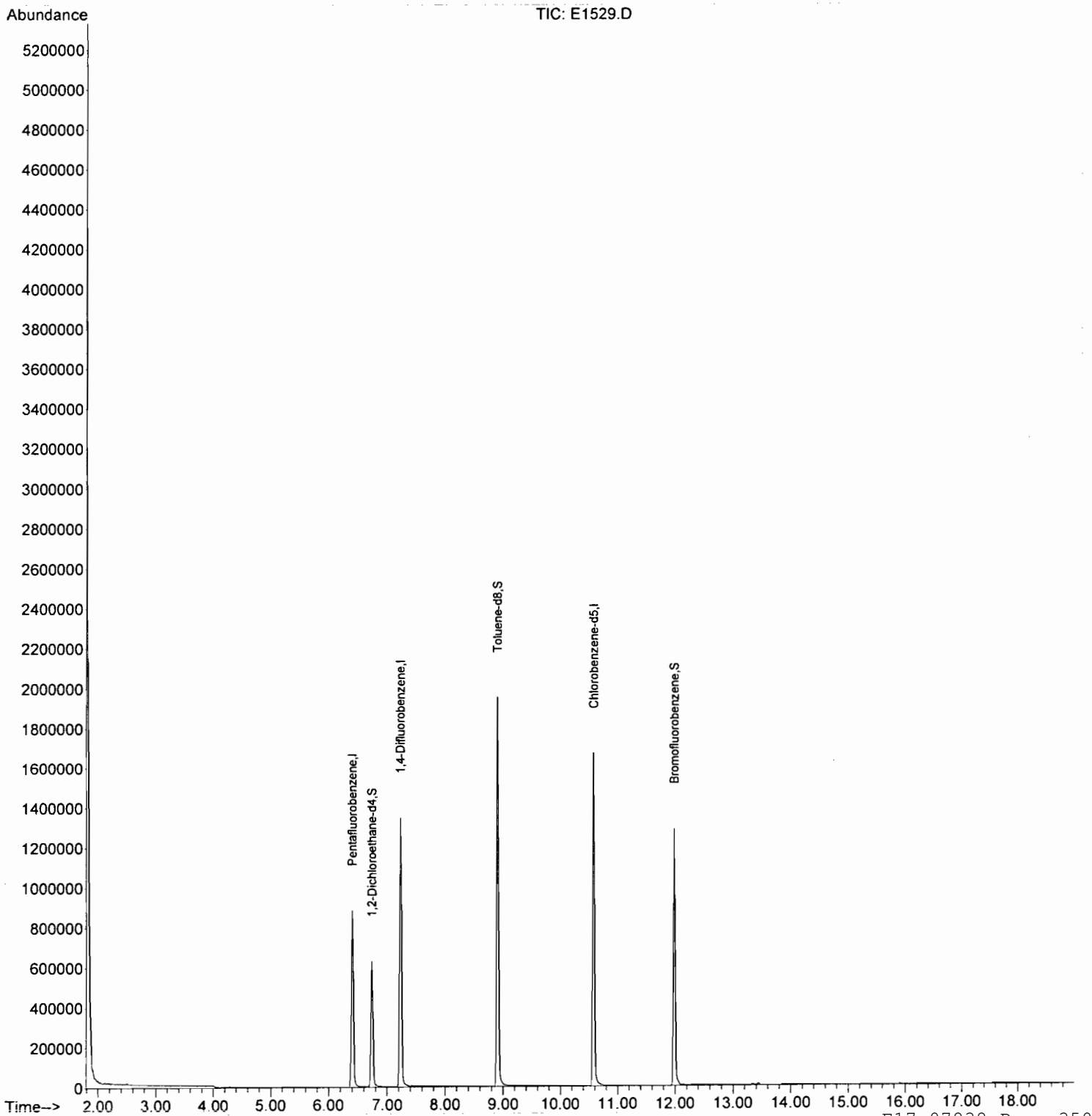
Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1529.D
Acq On : 18 Sep 2017 13:44
Operator : BARBARA
Sample : BLKA170918,BLKA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 18 17:13:24 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1529.D
Acq On : 18 Sep 2017 13:44
Operator : BARBARA
Sample : BLKA170918,BLKA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0.1

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M

Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.164	67	72	122	rVB	7081	51976	1.25%	0.309%
2	6.401	867	880	910	rBV	885180	2068468	49.67%	12.300%
3	6.736	932	944	966	rBV	628435	1502446	36.08%	8.934%
4	7.229	1027	1038	1073	rBV	1349221	2990780	71.82%	17.784%
5	8.902	1344	1357	1397	rBV	1955188	4164185	100.00%	24.761%
6	10.579	1666	1677	1719	rBV	1673371	3397662	81.59%	20.203%
7	11.985	1933	1945	1971	rBV	1290070	2641840	63.44%	15.709%

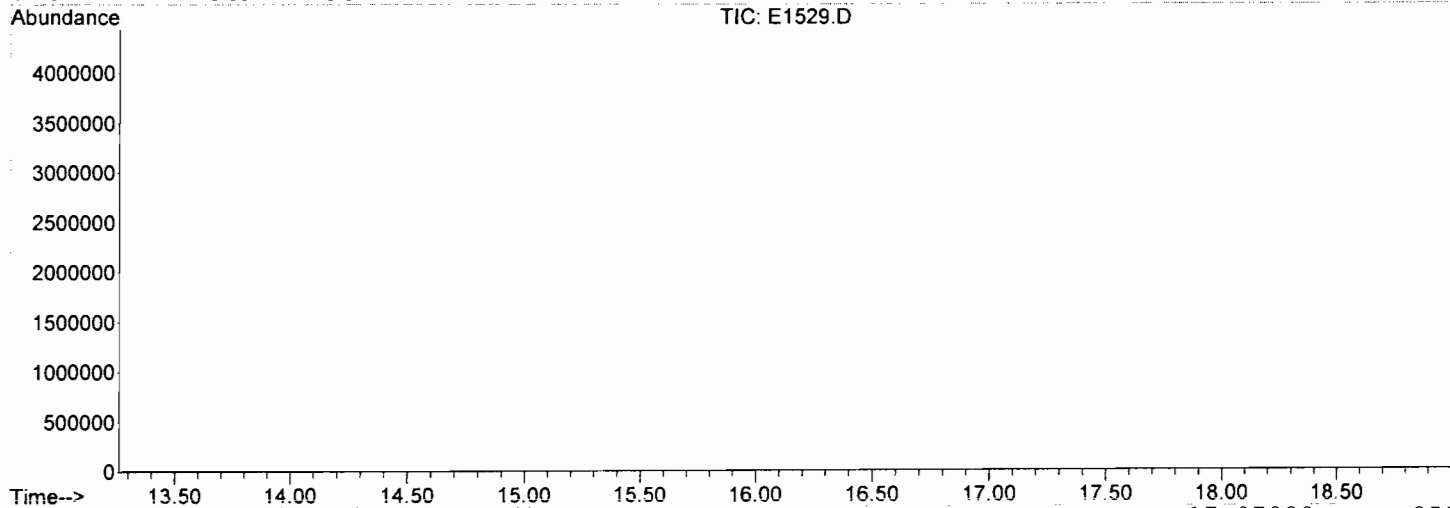
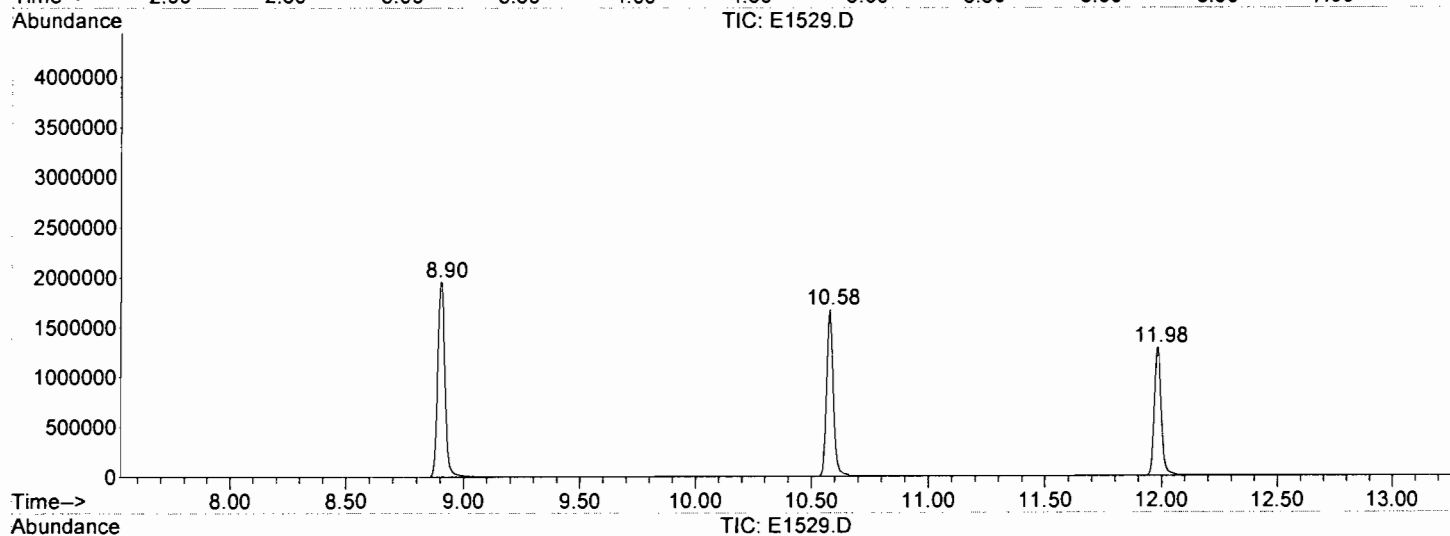
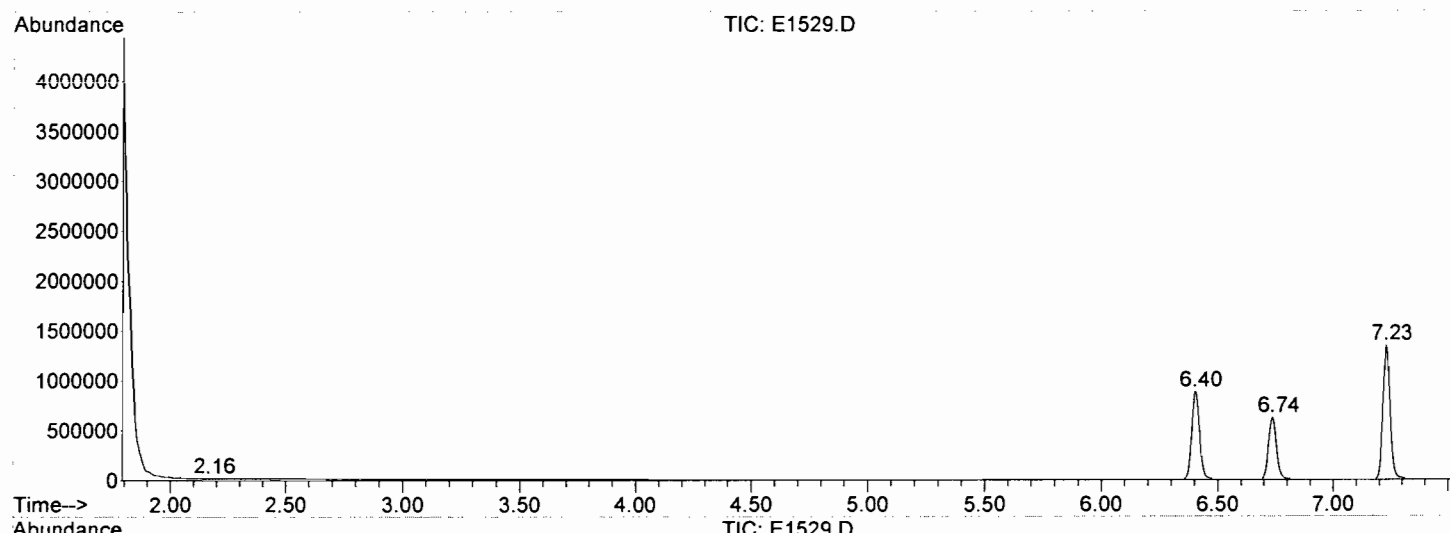
Sum of corrected areas: 16817357

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1529.D
Acq On : 18 Sep 2017 13:44
Operator : BARBARA
Sample : BLKA170918,BLKA170918,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
TIC Integration Parameters: LSCINT.P



INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: BLKA170918a
 Client ID: BLKA170918a
 Date Received: NA
 Date Analyzed: 09/19/2017
 Data file: E1553.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.662
Chloromethane	ND		0.500	0.463
Vinyl chloride	ND		1.00	0.591
Bromomethane	ND		1.00	0.544
Chloroethane	ND		0.500	0.495
Trichlorofluoromethane	ND		0.500	0.433
1,1-Dichloroethene	ND		0.500	0.493
Acetone	ND		2.00	1.33
Carbon disulfide	ND		0.500	0.464
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	ND		0.500	0.479
1,1-Dichloroethane	ND		0.500	0.493
cis-1,2-Dichloroethene	ND		0.500	0.451
2-Butanone (MEK)	ND		2.00	1.66
Bromochloromethane	ND		1.00	0.596
Chloroform	ND		0.500	0.469
1,1,1-Trichloroethane	ND		0.500	0.462
Carbon tetrachloride	ND		0.500	0.449
1,2-Dichloroethane (EDC)	ND		0.500	0.458
Benzene	ND		0.500	0.464
Trichloroethene	ND		0.500	0.493
1,2-Dichloropropane	ND		0.500	0.447
1,4-Dioxane	ND		100	98.4
Bromodichloromethane	ND		0.500	0.353
cis-1,3-Dichloropropene	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.699

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Lab ID: BLKA170918a
 Client ID: BLKA170918a
 Date Received: NA
 Date Analyzed: 09/19/2017
 Data file: E1553.D

GC/MS Column: DB-624
 Sample wt/vol: 5mL
 Matrix-Units: Aqueous-µg/L
 Dilution Factor: 1
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.379
trans-1,3-Dichloropropene	ND		0.500	0.321
1,1,2-Trichloroethane	ND		1.00	0.473
Tetrachloroethene	ND		0.500	0.451
2-Hexanone	ND		2.00	0.761
Dibromochloromethane	ND		1.00	0.442
1,2-Dibromoethane (EDB)	ND		0.500	0.402
Chlorobenzene	ND		0.500	0.376
Ethylbenzene	ND		0.500	0.344
Total Xylenes	ND		1.00	0.923
Styrene	ND		0.500	0.290
Bromoform	ND		0.500	0.445
Isopropylbenzene	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	ND		0.500	0.458
1,3-Dichlorobenzene	ND		0.500	0.351
1,4-Dichlorobenzene	ND		0.500	0.341
1,2-Dichlorobenzene	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	ND		1.00	0.533
1,2,4-Trichlorobenzene	ND		0.500	0.304
1,2,3-Trichlorobenzene	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.563
Methyl acetate	ND		0.500	0.485
Cyclohexane	ND		1.00	0.411
Methylcyclohexane	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	ND		0.500	0.331

Total Target Compounds (52): 0

D --- Dilution Performed
 J --- Value Less than RL & greater than MDL
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Tentatively Identified Compounds

Lab ID: BLKA170918a
Client ID: BLKA170918a
Date Received: NA
Date Analyzed: 09/19/2017
Data file: E1553.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
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No peaks detected

Total TICs = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1553.D
 Acq On : 19 Sep 2017 1:39
 Operator : BARBARA
 Sample : BLKA170918a,BLKA170918a,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 19 09:48:14 2017
 Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
 QLast Update : Wed Sep 13 10:48:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	544445	50.00	UG	0.00
31) 1,4-Difluorobenzene	7.23	114	1013002	50.00	UG	0.00
50) Chlorobenzene-d5	10.58	117	801723	50.00	UG	0.00

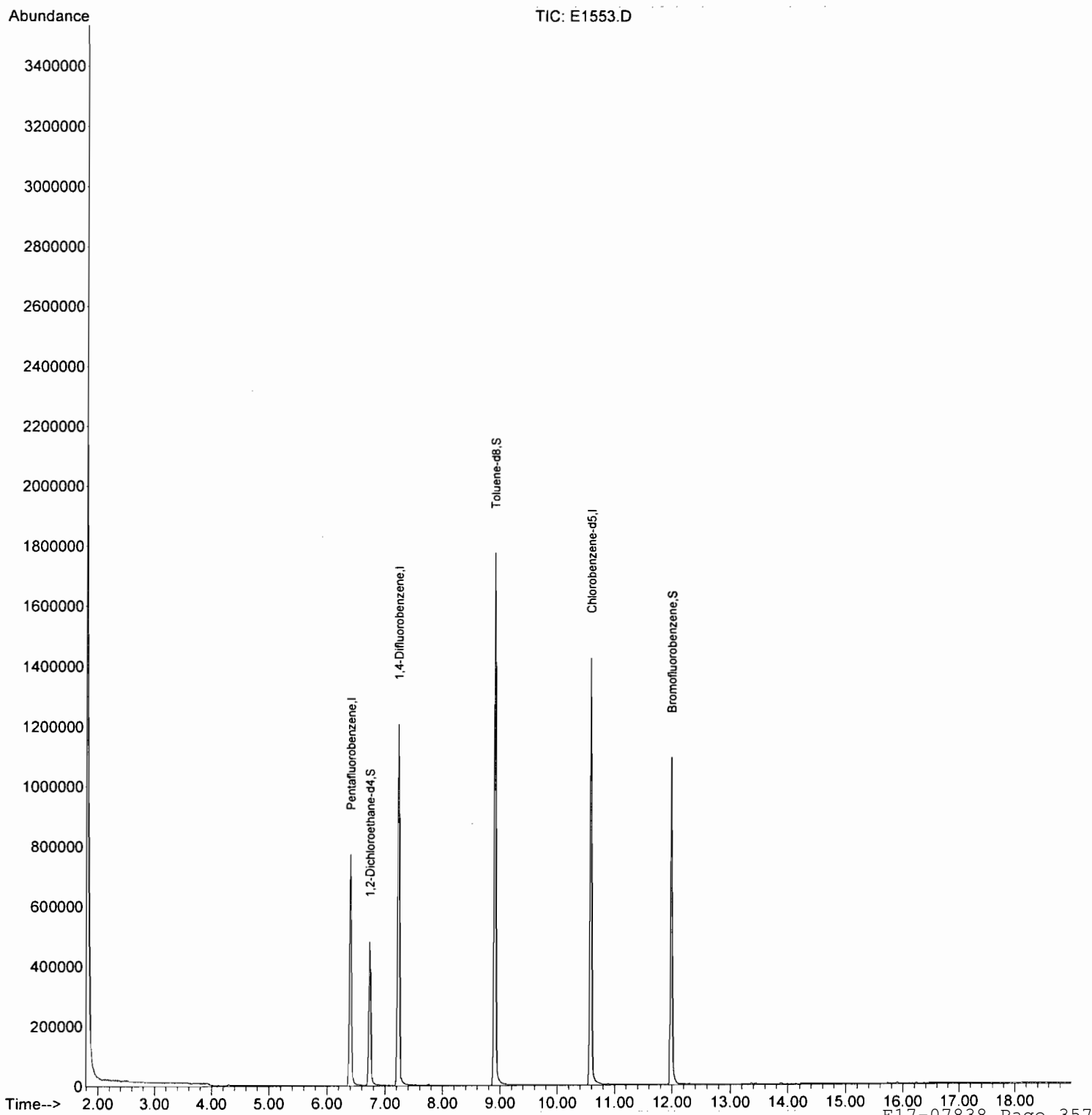
System Monitoring Compounds						
30) 1,2-Dichloroethane-d4	6.73	65	385786	41.67	UG	0.00
Spiked Amount	50.000	Range	69 - 166	Recovery	=	83.34%
41) Toluene-d8	8.90	98	1263981	48.79	UG	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.58%
59) Bromofluorobenzene	11.98	95	429368	45.61	UG	0.00
Spiked Amount	50.000	Range	66 - 120	Recovery	=	91.22%

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
Data File : E1553.D
Acq On : 19 Sep 2017 1:39
Operator : BARBARA
Sample : BLKA170918a,BLKA170918a,A,5mL,100
Misc : NA,NA,NA,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 19 09:48:14 2017
Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C
QLast Update : Wed Sep 13 10:48:46 2017
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1553.D
 Acq On : 19 Sep 2017 1:39
 Operator : BARBARA
 Sample : BLKA170918a,BLKA170918a,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: LSCINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.1
 Stop Thrs : 0.1
 Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 1

Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Title : VOLATILE ORGANICS BY EPA METHOD 8260C

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.474	128	131	170	rVB3	6245	37161	1.01%	0.256%
2	6.401	866	880	902	rBV	773068	1834829	49.90%	12.621%
3	6.731	929	943	970	rBV	479899	1107491	30.12%	7.618%
4	7.229	1024	1038	1068	rBV	1205853	2674125	72.73%	18.394%
5	8.902	1346	1357	1392	rBV2	1775770	3677033	100.00%	25.293%
6	10.579	1665	1677	1722	rBV	1425944	2968322	80.73%	20.418%
7	11.985	1933	1945	1972	rBV2	1094612	2238815	60.89%	15.400%

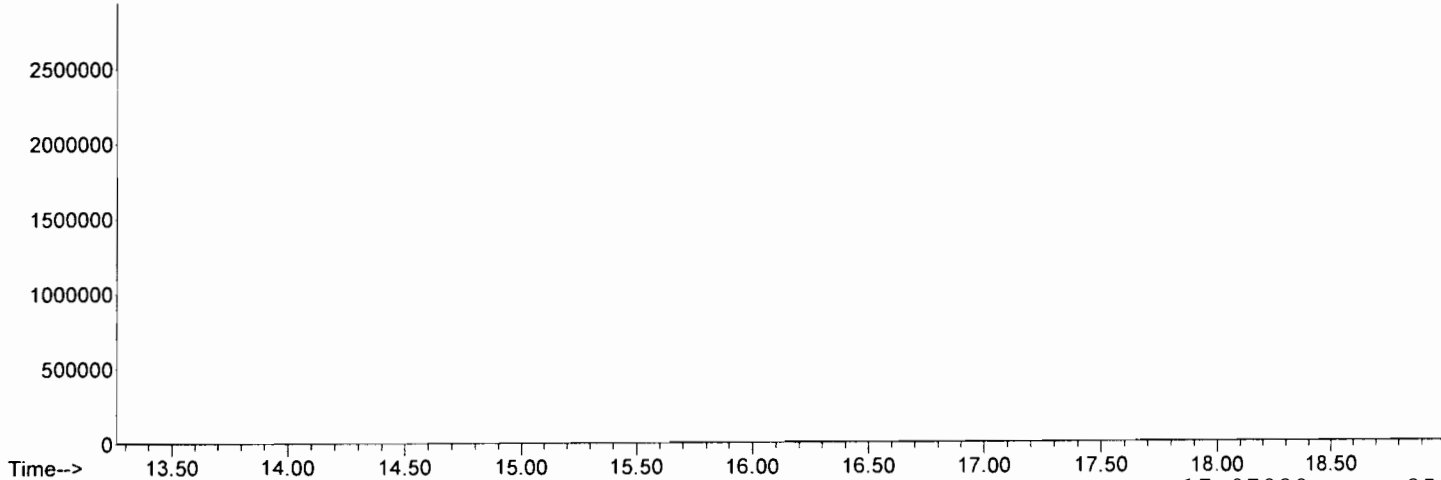
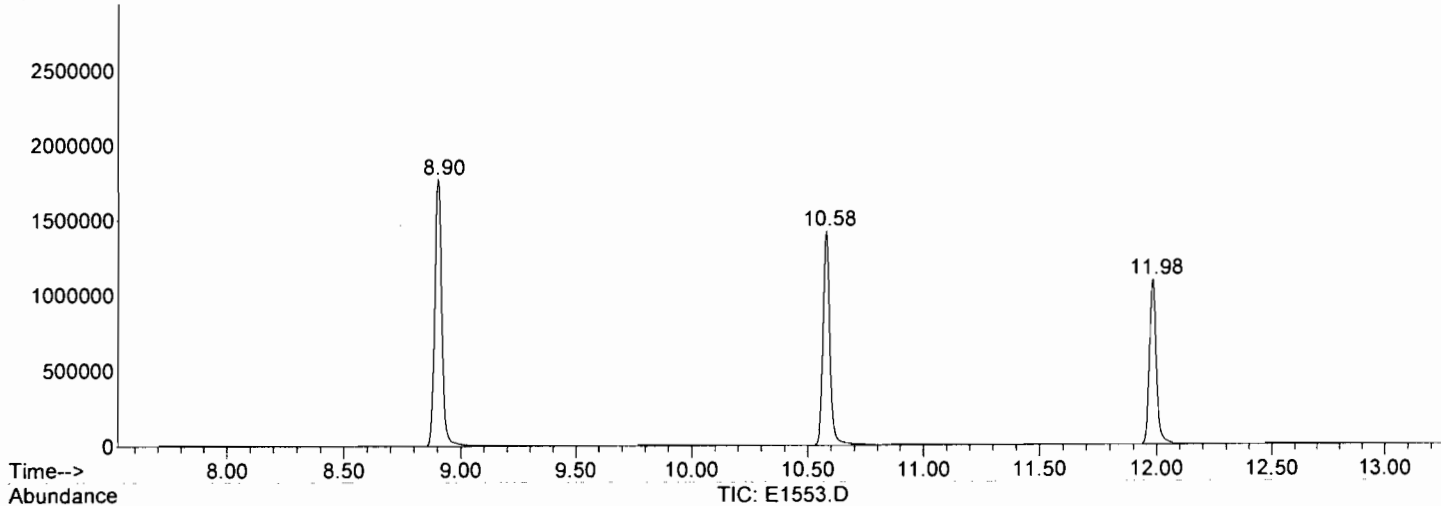
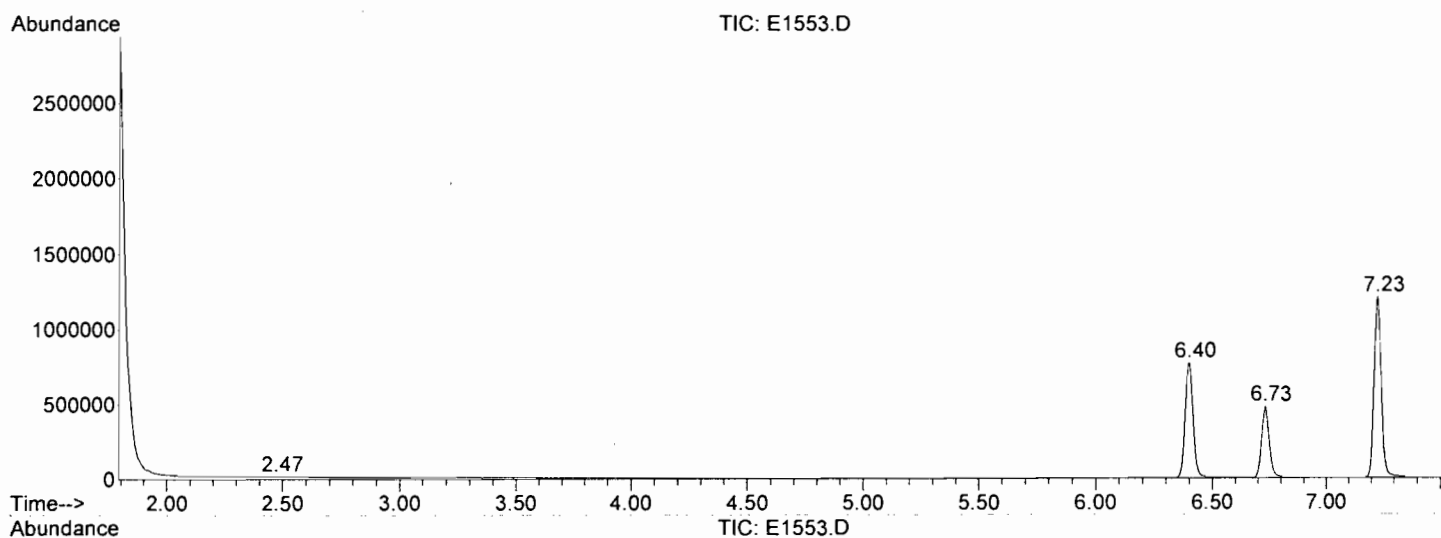
Sum of corrected areas: 14537776

LSC Report - Integrated Chromatogram

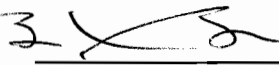
Data Path : C:\MSDCHEM\1\DATA\09-18-17\
 Data File : E1553.D
 Acq On : 19 Sep 2017 1:39
 Operator : BARBARA
 Sample : BLKA170918a,BLKA170918a,A,5mL,100
 Misc : NA,NA,NA,1
 ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\E8091217.M
 Quant Title : VOLATILE ORGANICS BY EPA METHOD 8260C

TIC Library : C:\DATABASE\NIST05A.L
 TIC Integration Parameters: LSCINT.P

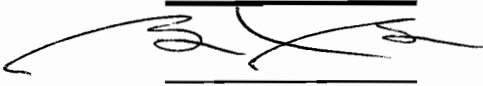


**VOLATILE ORGANICS RUN LOGS
STANDARD PREP LOGS**

DATE: 9/12/2017 12:46
INSTRUMENT: MSD-K
TUNE FILE: BFB_VOK
SEQUENCE FILE:
METHOD/CAL FILE: 8260C
ANALYST: Barbara Berberian
FRACTION: 624 524.2
BATCH: 

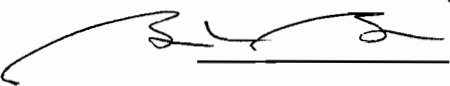
STANDARD	Lot #	Exp. Date	CONC.
BFB	L2728	09/16/17	25 ug/ml
ISTD/SURR (4100)	L2746	12/11/17	50 ug/ml
ISTD/SURR (4560)	L2747	12/11/17	250 ug/ml
Primary Mix	L2745	12/07/17	40 ug/ml
Primary Ac/Ac	L2738	09/23/17	1000 ug/ml
1,4-Dioxane	L2748	11/14/17	10000 ug/ml
Secondary Mix	L2732	09/27/17	40 ug/ml
Secondary Ac/Ac	L2744	11/28/17	1000 ug/ml
Secondary 1,4-Dioxane	L2729	09/16/17	10000 ug/ml
MeOH	L21082	10/01/17	

Vial #	Data File	Case #	Samp #	Vol (ml)	% Moist	Test	Method	VIAL #	pH<2 ?	Status
1	E1454	BFBA170912	BFBA170912	5	100		8260C			1:48
2	E1455	ICC00.5	ICC170912	5	100		8260C			OK
3	E1456	ICC001	ICC170912	5	100		8260C			OK
4	E1457	ICC005	ICC170912	5	100		8260C			OK
5	E1458	ICC020	ICC170912	5	100		8260C			OK
6	E1459	ICC100	ICC170912	5	100		8260C			OK
7	E1460	ICC150	ICC170912	5	100		8260C			OK
8	E1461	ICC200	ICC170912	5	100		8260C			OK
9	E1462	RB	RB	5	100		8260C			
10	E1463	ICV100	ICV170912	5	100		8260C			OK
11	E1464	RB		5	100		8260C			
12	E1465	RB		5	100		8260C			
13	E1466	BLKA170912	BLKA170912	5	100		8260C			OK

DATE: 9/18/2017 12:46
 INSTRUMENT: MSD-K
 TUNE FILE: BFB_VOK
 SEQUENCE FILE:
 METHOD/CAL FILE: 8260C
 ANALYST: Barbara Berberian
 FRACTION: 624 524.2
 BATCH: 

STANDARD	Lot #	Exp. Date	CONC.
BFB	L2751	12/18/17	25 ug/ml
ISTD/SURR (4100)	L2746	12/11/17	50 ug/ml
ISTD/SURR (4560)	L2747	12/11/17	250 ug/ml
Primary Mix	L2745	12/07/17	40 ug/ml
Primary Ac/Ac	L2738	09/23/17	1000 ug/ml
1,4-Dioxane	L2748	11/14/17	10000 ug/ml
Secondary Mix	L2732	09/27/17	40 ug/ml
Secondary Ac/Ac	L2744	11/28/17	1000 ug/ml
Secondary 1,4-Dioxane	L2750	12/15/17	10000 ug/ml
MeOH	L21082	10/01/17	

Vial #	Data File	Case #	Samp #	Vol (ml)	% Moist	Test	Method	VIAL #	pH<2 ?	Status
1	E1525	BFBA170918	BFBA170918	5	100		8260C			11:45
2	E1526	CCV100	CCV170918	5	100		8260C			OK
1	E1527	RB		5	100		8260C			
2	E1528	RB		5	100		8260C			
3	E1529	BLKA170918	BLKA170918	5	100		8260C			OK
	E1530	7838	1	5	100	TCL VO + 15	8260C	2	YES	OK
	E1531	7838	2	5	100	TCL VO + 15	8260C	2	YES	OK
6	E1532	7838	3	5	100	TCL VO + 15	8260C	2	YES	OK
7	E1533	7838	4	5	100	TCL VO + 15	8260C	2	YES	OK
8	E1534	7838	5	5	100	TCL VO + 15	8260C	2	YES	OK
9	E1535	7838	6	5	100	TCL VO + 15	8260C	2	YES	OK
10	E1536	7838	7	5	100	TCL VO + 15	8260C	2	YES	OK
11	E1537	7836	2	1	100	TCL VO + 15	8260C	2	YES	OK
12	E1538	7836	3	0.1	100	TCL VO + 15	8260C	2	YES	OK
13	E1539	LCSA170918		5	100		8260C			OK
14	E1540	7782	5MS	5	100		8260C		YES	OK
15	E1541	7782	5MSD	5	100		8260C		YES	OK
16	E1542	7838	6DL	1	100		8260C	1	YES	OK
17	E1543	7782	5	5	100	TCL VO + 15	8260C	2	YES	OK
18	E1544	7782	6	5	100	TCL VO + 15	8260C	2	YES	OK
19	E1545	7782	7	5	100	TCL VO + 15	8260C	2	YES	OK
20	E1546	7782	8	5	100	TCL VO + 15	8260C	2	YES	OK
21	E1547	7782	9	5	100	TCL VO + 15	8260C	2	YES	OK
22	E1548	7782	10	5	100	TCL VO + 15	8260C	2	YES	OK
23	E1549	BFBA170918	BFB170918a	5			8260C			11:40
24	E1550	CCV100	CCV170918a	5			8260C			OK
25	E1551	RB		5			8260C			
26	E1552	RB		5			8260C			
27	E1553	BLKA170918a	BLKA170918a	5			8260C			OK
28	E1554	7689	1	5	100	TCL VO + 15	8260C	2	YES	OK
29	E1555	LCSA170918a	LCSA170918a	5			8260C			OK
30	E1556	7838	8MS	5			8260C		YES	OK
31	E1557	7838	8MSD	5			8260C		YES	OK
32	E1558	RB		5			8260C			
33	E1559	7838	8	5	100	TCL VO + 15	8260C	2	YES	OK
34	E1560	7838	9	5	100	TCL VO + 15	8260C	2	YES	OK
35	E1561	7838	10	5	100	TCL VO + 15	8260C	2	YES	OK
36	E1562	7838	11	5	100	TCL VO + 15	8260C	2	YES	OK

DATE: 9/18/2017 12:46
INSTRUMENT: MSD-K
TUNE FILE: BFB_VOK
SEQUENCE FILE:
METHOD/CAL FILE: 8260C
ANALYST: Barbara Berberian
FRACTION: 624 524.2
BATCH: 

STANDARD	Lot #	Exp. Date	CONC.
BFB	L2751	12/18/17	25 ug/ml
ISTD/SURR (4100)	L2746	12/11/17	50 ug/ml
ISTD/SURR (4560)	L2747	12/11/17	250 ug/ml
Primary Mix	L2745	12/07/17	40 ug/ml
Primary Ac/Ac	L2738	09/23/17	1000 ug/ml
1,4-Dioxane	L2748	11/14/17	10000 ug/ml
Secondary Mix	L2732	09/27/17	40 ug/ml
Secondary Ac/Ac	L2744	11/28/17	1000 ug/ml
Secondary 1,4-Dioxane	L2750	12/15/17	10000 ug/ml
MeOH	L21082	10/01/17	

Vial #	Data File	Case #	Samp #	Vol (ml)	% Moist	Test	Method	VIAL #	pH<2 ?	Status
37	E1563	7838	12	5	100	TCL VO + 15	8260C	2	YES	OK
38	E1564	7838	13	5	100	TCL VO + 15	8260C	2	YES	OK
39	E1565	7838	14	5	100	TCL VO + 15	8260C	2	YES	OK
40	E1566	7838	15	5	100	TCL VO + 15	8260C	2	YES	OK
41	E1567	7838	16	5	100	TCL VO + 15	8260C	2	YES	OK
42	E1568	7838	17	5	100	TCL VO + 15	8260C	2	YES	OK
43	E1569	7794	1	5	100	L VO + 15; TCL VO + 15 + T	8260C	2	YES	OK
44	E1570	7736	1	0.01	100	TCL VO + 15	8260C	2	YES	OK
45	E1571	7838	14DL	2.5	100	TCL VO + 15	8260C	2	YES	OK
46	E1572	7838	7DL	1	100	TCL VO + 15	8260C	2	YES	OK

SPEX CertiPrep

Calibrate with Confidence™

Part # VO-IALNJ-1
Lot # BW160428030
Date Opened _____

Custom

Contains the following in **Methanol (Purge & Trap Grade)**

Concentration	Compound
2000 µg/mL	Methylcyclohexane
2000 µg/mL	Methyl acetate
2000 µg/mL	Cyclohexane
2000 µg/mL	1,1,2-Trichlorotrifluoroethane

VO-IALNJ-1
BW160428030

SPEX CertiPrep

Calibrate with Confidence™

Part #: VO-IALNJ-1
Lot #: BW160428030
Date Opened _____

Custom

Contains the following in **Methanol (Purge & Trap Grade)**

Concentration	Compound
2000 µg/mL	Methylcyclohexane
2000 µg/mL	Methyl acetate
2000 µg/mL	Cyclohexane
2000 µg/mL	1,1,2-Trichlorotrifluoroethane

VO-IALNJ-1
BW160428030

L275
6/9/17
exp 9/9/17
yz

8x60 "024100" 2.5/surr 20 µg/mL
1ml Ls "1137" at 50 µg/mL
1ml Ls "1138" at 50 µg/mL } exp 6/8/2018 and
dilute in to 50 mL MeOH.

L276
6/9/17
exp 9/9/17
yz

8x60 2.5/surr 20 µg/mL
5ml Ls "1137" at 20 µg/mL
5ml Ls "1138" at 20 µg/mL } exp 6/8/2018 and
dilute in to 50 mL MeOH.

L277
6/9/17
exp 9/9/17
yz

8x60 2.5/surr 150 µg/mL
3ml Ls "1137" at 150 µg/mL
3ml Ls "1138" at 150 µg/mL } exp 6/8/2018 and
dilute in to 50 mL MeOH.

L2723
06/16/17
09/16/17

10FB remaining 25 ppm
0.5 ml of ECS-A-ON Lot: EN150411005
exp. 04/10/19 and 0.5 ml of MeOH
Lot: 171415, find volume/ml
01/10/17

L270529
06/16/17
09/16/17

Recaudary 1,4-dioxane working solution @ 1000 ppm
transfers 1,4-dioxane @ 1000 ppm (ECS-A-diox)
Lot: # 104170131010 exp. 01/31/20 into
1ml

L2730

P. 6/1/17

exp 6/21/18

L2731

pre 6/21/17

exp 9/21/17

2500 ug/ml BFB from stock for screen, 8 ul to BFB from
neet into 5ml (1-bromo-4-fluorobenzene)

100 ppm at BFB at into for screen 1ml (of "2730" 2500 ppm
BFB stock) into 5ml neet.

L2731

P. 6/22/17

8/22/17

1,4-dioxane (Primary) (ECS-A-DIOX)
1ml of ECS-A-DIOX lot: B4170131010
exp. 1/31/2020

L2732

P. 6/27/17

8/27/17

Secondary mix of 40 ul/ml
98 ml of L2695 MINE/TMA/DIPE (C)
500/1000/5000 ppm

2ml of ECS-049 Add-ons mix #3
2000 ppm lot: T1150408001, received
2/14/17 exp. 4/7/2018











2ml of ECS-524/8260 Main mix 2000 ppm
ECS-A-033 lot: TS160701009, received
2/14/17 exp. 7/1/2019

2ml of volatiles gases mix 2000 ppm
ECS-A-053 lot: B4161221012, received
2/14/17 exp. 12/21/2019

4 ml of M-8260-Add-10x, lot:

217061012 exp. 10/02/2017

1000 100 ml/
of MeOH.

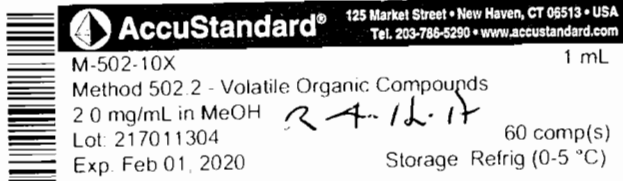
 AccuStandard® 125 Market Street • New Haven, CT 06513 • USA Tel. 203-786-5290 • www.accustandard.com		FOR LABORATORY USE ONLY H336 H225 H370 H320 H315 H311 H332 H301 H360 H350 H351 P338 P360 P331 P233 P262	
 AccuStandard® 203-786-5290 www.accustandard.com	M-8260-ADD-10X	1 mL	
	Method 8260 Additions		
	2.0 mg/mL in MeOH		
	Lot: 217061012	8 comp(s)	
	Exp: Oct 02, 2017	Storage: Freeze (<-10 °C)	Danger
	M-8260-ADD-10X	Date Opened:	Storage: Freeze (<-10 °C)
	Lot: 217061012	Method 8260 Additions	  
	Exp: Oct 02, 2017	2.0 mg/mL in MeOH	
 AccuStandard® 125 Market Street • New Haven, CT 06513 • USA Tel. 203-786-5290 • www.accustandard.com		FOR LABORATORY USE ONLY H336 H225 H370 H320 H315 H311 H332 H301 H360 H350 H351 P338 P360 P331 P233 P262	
 AccuStandard® 203-786-5290 www.accustandard.com	M-8260-ADD-10X	1 mL	
	Method 8260 Additions		
	2.0 mg/mL in MeOH		
	Lot: 217061012	8 comp(s)	
	Exp: Oct 02, 2017	Storage: Freeze (<-10 °C)	Danger
	M-8260-ADD-10X	Date Opened:	Storage: Freeze (<-10 °C)
	Lot: 217061012	Method 8260 Additions	  
	Exp: Oct 02, 2017	2.0 mg/mL in MeOH	

ppm
sol

mc
test

L2133

Secondary Standard for STA.2 @ 20 ppm



0.1 ml of
M. Std. 10X
R 4.12.17

BS
1/5/17

opened 7/5/17

into 10 ml MeOH

expires 10/5/17

L2134

t-Butyl alcohol @ 400 ppm Secondary

BS
1/5/17

1 ml of L2130 (BA @ 2000 ppm
into 5 ml MeOH

expires 10/5/17

L2135

Secondary REV 4 for STA.2 @ 200 ppm



1 ml of M. STD R-B
additions to STA.2
R 4.12.17

BS
1/5/17

opened 7/5/17

into 10 ml
MeOH

expires 10/5/17

am

L2736

524.2 IS/Sur for 524.2 @ 5 ppm
for 4.00

AS
1/5/17

125 µl of ELS-524.2 IS/Sur @ 2000 ppm
ELS-A-034 lot R110386023 exp 3/25/18
opened 1/5/17 R. 8.5.16
into 50 ml MeOH
expires 10/5/17

1

L2737
me 1/15/17
exp 10/15/17

250 ppm screen sw working solution
small (cont. W-2AL N]-2) (Lot # TS170X1103)
at 500 µg/ml diluted in 1 ml MeOH.

L2738
AS
1/16/17

Primary Acrolein / Acrylonitrile
@ 1000 ppm

pm

1 ml of 4.603. N.5X

2.13

2

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M-603-M-5X
Acrolein & Acrylonitrile
5.0 mg/mL in MeOH:Water 90:10
Lot: 217051281
Exp: Sep 23, 2017

1 mL
2 comp(s)
Storage: Freeze (<-10 °C)

into
50 ml MeOH

expires 9/23/17

L2742

524.2 Primary REV4 @ 200ppm

DWM-588-1
Lot CR-0231
Exp 02/28/2020
VOC Mixture
60 analyte(s) at 2000 µg/mL in methanol
250 Smith St, No Kingstown, RI 02852 USA

ULTRA
1 mL
For Lab Use Only

1 ml of DWM-588-1
received 11/24/17
opened 8/9/18 into
10 mls MeOH

exp. res 11/9/18

L2743

524.2 REV4 Primary @ 200ppm

DWM-592-1
Lot CP-1620
Exp 05/31/2019

ULTRA
1 mL
For Lab Use Only

VOC Mixture

24 analyte(s) at 2000 µg/mL in methanol

250 Smith St, No Kingstown, RI 02852 USA

1 ml of DWM-592-1
received 11/24/17
opened 8/9/18 into
10 mls MeOH

exp. res 11/9/18

L2744

Secondary Acrolein / Acrylonitrile @ 1000ppm

08/28/17

11/28/17

1 ml of ECS-A-038 Lot: 54170830011
exp. 11/28/17 into 10 ml of MeOH
Lot: 171415

ECS (800) LAB-SPEX
Acrolein/Acrylonitrile Mix
Part # ECS-A-038
Lot # BW170830011
Expiry 11/28/17

2745
8/2/17
12/7/17

Primary working standard @ 40 ppm
2mls of DMU-588-1 received 1/11/17 exp. 10/31/18
4mls of EES-A-040 2-chloroethyl vinyl ether @
200 ppm, lot: BH160615021, rec. 6/24/16 exp. 6/15/18
0.8ml of TBA @ 10000 ppm #LS 1116 made 12/9/16 exp. 2/9/18
0.8ml of DIPE @ ⁸⁰⁰⁰10000 ppm #LS 1118 made 1/3/17 exp. 1/3/18
4ml of EES-A-043 8260 ketones Mix @ 2000 ppm
lot: BH170200016, rec. 5/18/17, exp. 2/6/18
2ml of EES-A-044 add # ons 1 @ 2000 ppm lot: BH16
1117002 rec. 5/18/17, exp. 11/17/17
2ml of VOA-1ALN @ 2000 ppm lot: BH160428030
rec. 2/14/17 exp. 2/14/2020

into 100ml
of MeOH

SPEX CertiPrep

Part #: VO-1ALNJ-1
Lot #: BW160428030
Date Opened: _____

Calibrate with Confidence™

Custom

Contains the following in Methanol (Purge & Trap Grade)

Concentration	Compound
200 µg/mL	Methylcyclohexane
2000 µg/mL	Methyl acetate
2000 µg/mL	Cyclohexane
2000 µg/mL	1,1,2-Trichlorotrifluoroethane



DWM-588-1
Lot CR-2100
Exp 06/30/2020

ULTRA
1 mL

VOC Mixture

60 analyte(s) at 2000 µg/mL in
methanol

250 Smith St, No Kingstown, RI 02852 USA

DWM-588-1
Lot CR-2100
Exp 06/30/2020

ULTRA
1 mL

VOC Mixture

60 analyte(s) at 2000 µg/mL in
methanol

250 Smith St, No Kingstown, RI 02852 USA

2746
8/11/17
12/11/17

8260 "02 4100" 15.1 surmount 50 µg/mL
1ml of LS "1137" of 50 µg/mL } exp 6/8/18
1ml of LS 1138 of 50 µg/mL }
into 60 ml of MeOH

L2747
 9/11/17
 12/11/17

8260 Internal Standard / sumopate 250 ug/ml
 5 ml of LS1137 at 250 ug/ml
 5 ml of LS1138 at 250 ug/ml exp. 6/8/18
 into 50 ml of MeOH

1/18
 exp. 2/1/18

L2748

Primary Acrolein + Acrylonitrile @
 1000 ppm

4/16

AccuStandard 125 Market Street • New Haven, CT 06513 • USA
 Tel. 203-786-5290 • www.accustandard.com
 M-603-M-5X 1 mL
 Acrolein & Acrylonitrile
 5.0 mg/mL in MeOH:Water 90:10
 Lot: 217071091 2 comp(s)
 Exp: Nov 14, 2017 Storage: Freeze (<-10 °C)

2/30/17

2 mls of
 M-603-M-5X
 into
 10 mls
 MeOH

9/12/17

AccuStandard 125 Market Street • New Haven, CT 06513 • USA
 Tel. 203-786-5290 • www.accustandard.com
 M-603-M-5X 1 mL
 Acrolein & Acrylonitrile
 5.0 mg/mL in MeOH:Water 90:10
 Lot: 217071091 2 comp(s)
 Exp: Nov 14, 2017 Storage: Freeze (<-10 °C)

2/30/17

exp. 11/4/17

ULTRA
 1 mL
 ture
 00 µg/mL in
 al
 For Lab Use Only
 wvn, RI 02852 USA

L2748
 9/14/17
 12/14/17

624 Internal Standard / sumopate 150 ug/ml
 3 ml of LS1137 at 150 ug/ml
 3 ml of LS1138 at 150 ug/ml exp. 6/8/18
 into 50 ml of MeOH

ULTRA
 1 mL
 ture
 10 µg/mL in
 l
 For Lab Use Only
 wvn, RI 02852 USA

1 ml

L2750
 9/15/17
 12/15/17

Reaching 1,4-dioxane working solution @ 1000 ppm
 transfer 1,4-dioxane @ 1000 ppm (ECS-A-Pi-6X)
 lot # 170131010 exp. 01/31/20 into
 1 ml

3/18

Ⓟ

L2751 BFB turning 25 ppm
P. 9/18/17 0.5 ml of ECS-A-017 Lot: EN150411005
12/18/17 exp. 04/10/18 and 0.5 ml of MeOH
final volume 1ml

Ⓟ

L2752 1,4-Dioxane (Primary) ECS-A-DIOX
P. 2/22/17 1ml of ECS-A-DIOX Lot: B6170131010
12/22/17 exp. 1/31/2020

L2753 500 ppm BFB at into for screen 1ml (at 11/24/17 500 ppm
P. 9/11/17 BFB stock) in to 5ml MeOH.
exp. 12/11/17

L2754 Secondary Mix of 40 uel/ml
P. 2/27/18 0.8 ml of L2695 MTBE/TBA/DIPE
12/27/18 @ 500/1000/5000 ppm
2ml of ECS-049 Add-on mix #3 2000 ppm
Lot: T1150408001, received 2/14/17 exp.
4/7/2018
2ml of ECS-524/8260 Main mix 2000 ppm
ECS-A-033 Lot: T5160701009, received
2/14/17 exp. 7/1/2018
2ml of ECS - volatiles pores mix 2000 ppm
ECS-A-053 Lot: B4161221012, received
2/14/17 exp. 2/21/18
1ml of M-8260 Add-on x Lot: 217071278-01
rec. 8/20/17 exp. 01/06/18
into 100 ml of MeOH.

SAMPLE TRACKING

Chain of Custody Record

Contact Us: 973-361-4252
Fax: 973-989-5288
Web: www.ialonline.com

[illegible]



Integrated Analytical Labs
273 Franklin Road
Randolph, NJ 07869

Chain of Custody Record

Contact Us: 973-361-4252
Fax: 973-989-5288
Web: www.ialonline.com

Customer Information				Reporting Information				Deliverables				EDDs				Concentrations Expected:							
Company: BVNA				REPORT TO:				NJ, CT, PA				NY				Low Med High							
Address: 110 Fieldcrest Ave				Address:				Results Only				ASP Category				NJ SRP				These samples have been previously analyzed by IAL			
Telephone #: 4th Floor, Edison, NJ				Attn:				Reduced				ASP Category				lab approved custom EDD				YES NO			
Fax #:				FAX #:				Full*				Regulatory/				NO EDD REQ'D				NO			
Project Manager: Kyle Young				INVOICE TO:				Standard (10 business days) Verbal				Turn-Around Time (TAT)				Regulatory Requirement							
EMAIL Address:				Address:				Rush/Date needed (only if pre-approved)**				New Jersey				New York							
Project Name: Lexington Machinery				Attn:				Hard Copy: Std 3 week				Other - call for price				AWQS (TOGS Table 1)							
Project Location (State): NY				PO # 08017-000138.00				Petroleum Hydrocarbons - Selection is REQUIRED				TAT for PHC (if other than 2 weeks):				Part 375-8.8(a) - Unrestricted							
Bottle Order #:				Quote #				NJ EPH-DR0 - Category 1				NJ EPH-C40 - Category 2				CP-51 Table 2 or 3 (selection required)							
X "Report to" Invoice To" same as above				Sample Matrix				Oil - Oil				S - Soil				AWQS (TOGS Table 1)							
Sampled by: Kyle Young				DW - Drinking Water				S - Solid				SL - Sludge				Part 375-8.8(b) - Restricted							
COMPLETED BY IAL:				WW - Waste Water				W - Wipe				B - Biphasic				OTHER Reg. Req. (specify)							
Field Sampling				LIQ - Liquid (Specify)				Matrix				# containers				SPLP							
Equipment Rental				Sampling				Date				Time				ANALYTICAL PARAMETERS (please note if contingent)							
SAMPLE INFORMATION				Depth (ft only)				Date				Time				Sample Specific Notes:							
Client ID				Trip Blank				9/12/17				1520				X							
MW-1				MW-5				9/13/17				1605											
MW-8				MW-10				9/13/17				820											
MW-9				Field Blank-2								850											
MW-11D												935											
												1030											
												1055											
Known Hazard: YES / NO				Container Code:				Preservative (use code)				Container Type (use code)				FOR LAB USE ONLY							
Describe:				Preservative Code:				A = Amber Glass				B = Plastic				SDG #: 7838							
Please print legibly and fill out completely. Samples cannot be processed and the turnaround time (TAT) will not start until any ambiguities have been resolved. TAT starts the following day if samples rec'd at lab > 5PM. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY IAL'S TERMS & CONDITIONS (found on rear of pink copy).				Carrier (check one):				1 = None				2 = HCl				Cooler Temp: 5 °C							
								3 = HNO3				4 = MeOH				Date: 9/11/17							
								5 = NaOH				6 = H2SO4				Time: 11:00							
								7 = Other				T = TerraCore				Signature: Kyle Young							
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Chain of Custody Record

Contact Us: 973-361-4252
Fax: 973-989-5288
Web: www.lalonline.com

[illegible]

PROJECT INFORMATION

E17-07838: LEXINGTON MACHINING

To: Kyle Young
Bureau Veritas
Fax: 1(732) 225-4577
Email: kyle.young@us.bureauveritas.com

Report To

Bureau Veritas
110 Fieldcrest Ave.
4th Floor
Edison, NJ 08837
Attn: Kyle Young

Bill To

Bureau Veritas
16800 Greens Point Drive
Suite 300S
Houston, TX 77060
Attn: Cathy Fink

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Category B	08017-000138.00	Sep 14, 2017 @ 11:00	NA	Sep 28, 2017	Oct 05, 2017 *

* Any Conditional or Hold status will delay final hardcopy report sent date.

Diskette Req. Not Required

**** QC Requirement (must meet):** NY TOGS Tbl5 (GWEL)

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
07838-001	MW-4	NA	09/12/17@09:30	Aqueous	ug/L (ppb)	
07838-002	MW-7	NA	09/12/17@10:00	Aqueous	ug/L (ppb)	
07838-003	FIELD BLANK -1	NA	09/12/17@10:38	Aqueous	ug/L (ppb)	
07838-004	MW-14	NA	09/12/17@10:45	Aqueous	ug/L (ppb)	
07838-005	MW-3	NA	09/12/17@11:30	Aqueous	ug/L (ppb)	
07838-006	MW-13	NA	09/12/17@12:20	Aqueous	ug/L (ppb)	
07838-007	MW-2	NA	09/12/17@12:55	Aqueous	ug/L (ppb)	
07838-008	MW-2D	NA	09/12/17@13:20	Aqueous	ug/L (ppb)	
07838-009	TRIP BLANK	NA	09/12/17	Aqueous	ug/L (ppb)	
07838-010	MW-1	NA	09/12/17@15:20	Aqueous	ug/L (ppb)	
07838-011	MW-5	NA	09/12/17@16:05	Aqueous	ug/L (ppb)	
07838-012	MW-8	NA	09/13/17@08:20	Aqueous	ug/L (ppb)	
07838-013	MW-10	NA	09/13/17@08:50	Aqueous	ug/L (ppb)	
07838-014	MW-9	NA	09/13/17@09:35	Aqueous	ug/L (ppb)	
07838-015	FIELD BLANK -2	NA	09/13/17@10:30	Aqueous	ug/L (ppb)	
07838-016	MW-11D	NA	09/13/17@10:55	Aqueous	ug/L (ppb)	
07838-017	MW-11	NA	09/13/17@11:30	Aqueous	ug/L (ppb)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
002	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
003	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
004	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
005	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
006	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017



PROJECT INFORMATION

E17-07838: LEXINGTON MACHINING

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
007	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
008	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
009	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
010	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
011	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/26/2017
012	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/27/2017
013	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/27/2017
014	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/27/2017
015	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/27/2017
016	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/27/2017
017	TCL VO + 15	Analyze	8260C	STD/2 WKS	9/27/2017

Project Notes:

NOTE 1 taken by Mark on 09/18/2017 12:30

PER JOHN STANGLINE, CATEGORY B DELIVERABLES REQUIRED.

REPORT TOGS TABLE 5 MDL's



INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: **E 17** **07838**

CLIENT: *BVNA*

COOLER TEMPERATURE: 2° - 6°C: ☒ (See Chain of Custody)

Comments

COC: **COMPLETE** / INCOMPLETE

KEY

<input checked="" type="checkbox"/>	= YES/NA
<input checked="" type="checkbox"/>	= NO

VOA received: ☐ Encore ☐ IGW - Methanol
(check one) ☐ Terra Core ☐ No Preservative

<input checked="" type="checkbox"/>	Bottles Intact	
<input checked="" type="checkbox"/>	no-Missing Bottles	
<input checked="" type="checkbox"/>	no-Extra Bottles	

<input checked="" type="checkbox"/>	Sufficient Sample Volume	
<input checked="" type="checkbox"/>	no-headspace/bubbles in VO's	
<input checked="" type="checkbox"/>	Labels intact/correct	
<input checked="" type="checkbox"/>	pH Check (exclude VO's) ¹	
<input checked="" type="checkbox"/>	Correct bottles/preservative	
<input checked="" type="checkbox"/>	Sufficient Holding/Prep Time ¹	
<input type="checkbox"/>	Multiphasic Sample	
<input type="checkbox"/>	Sample to be Subcontracted	
<input checked="" type="checkbox"/>	Chain of Custody is Clear	

¹ All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS: _____

SAMPLE(S) VERIFIED BY: INITIAL *M* DATE *9/14/12*

CORRECTIVE ACTION REQUIRED: YES ☐ (SEE BELOW) NO ☐

If COC is **NOT** clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED: YES ☐ Date/ Time: _____ NO ☐

PROJECT CONTACT: _____

SUBCONTRACTED LAB: _____

DATE SHIPPED: _____

ADDITIONAL COMMENTS: _____

VERIFIED/TAKEN BY: INITIAL *[Signature]* DATE *9.18.12*

Laboratory Custody Chronicle

IAL Case No.

E17-07838

Client Bureau Veritas

Project LEXINGTON MACHINING

Received On 9/14/2017@11:00

Department: Volatiles

			<u>Prep. Date</u>	<u>Analyst</u>	<u>Analysis Date</u>	<u>Analyst</u>
TCL VO + 15	07838-001	Aqueous	n/a	n/a	9/19/17	Barbara
"	-002	"	n/a	n/a	9/18/17	Barbara
"	-003	"	n/a	n/a	9/18/17	Barbara
"	-004	"	n/a	n/a	9/18/17	Barbara
"	-005	"	n/a	n/a	9/18/17	Barbara
"	-006	"	n/a	n/a	9/18/17	Barbara
"	-007	"	n/a	n/a	9/18/17	Barbara
"	-008	"	n/a	n/a	9/19/17	Barbara
"	-009	"	n/a	n/a	9/19/17	Barbara
"	-010	"	n/a	n/a	9/19/17	Barbara
"	-011	"	n/a	n/a	9/19/17	Barbara
"	-012	"	n/a	n/a	9/19/17	Barbara
"	-013	"	n/a	n/a	9/19/17	Barbara
"	-014	"	n/a	n/a	9/19/17	Barbara
"	-015	"	n/a	n/a	9/19/17	Barbara
"	-016	"	n/a	n/a	9/19/17	Barbara
"	-017	"	n/a	n/a	9/19/17	Barbara

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