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October 10, 2013

Via U.S. Mail and e-mail

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12207-2942

Attention: Melissa Sweet
Project Manager

Re: Remedial Investigation Report
Elks Plaza, LLC.
157-189 West Merrick Road, Freeport NY
NYSDEC Site No.: 1-30-193

Dear Ms. Sweet:

Our Remedial Investigation Report for the above-referenced Site is attached. Our findings to date indicate that the SSD system is functioning properly. We recommend the following for the Site:

- The SSD system installed at this site should remain in operation with inspections scheduled annually.
- The indoor air of the Laundromat and the indoor air and sub-slab vapor of the basement of the Woodward School should be monitored on an annual basis during the winter heating season.
- The network of on-site monitoring wells should be monitored on an annual basis.
- We recommend that the Interim Remedial Measure (IRM) already implemented at this site – the operation of the SSD system – along with a program of annual monitoring be considered the final remedy for this site.
- Upon approval of this Remedial Investigation Report, we recommend that the NYSDEC prepare a Record Of Decision (ROD) for this site listing continued operation of the IRM and annual monitoring of indoor air, soil vapor and groundwater as the final remedy.
- Upon completion of the ROD, we recommend that a Site Management Plan (SMP) be prepared to ensure the remedy is properly implemented.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

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REMEDIAL INVESTIGATION REPORT

ELKS PLAZA LLC.
157-189 West Merrick Road
Freeport, New York
NYSDEC SITE #1-30-193

October 2013

Prepared for:

Elks Plaza LLC.
28 Campbell Drive
Dix Hills, NY 11746

Prepared by:

CA RICH CONSULTANTS, INC.
17 Dupont Street
Plainview, NY 11803

CERTIFICATION

I, Eric Weinstock, certify that I am currently a Qualified Environmental Professional as defined by 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

7391	10/10/2013	Eric Weinstock
Certified Professional Geologist #	Date	Signature

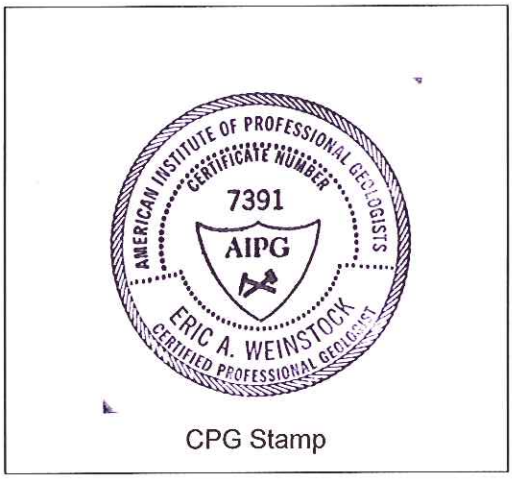

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TABLE OF CONTENTS

Section	Page
1.0 Introduction & Site Background	1
1.1 Previous Investigation	
1.2 Identification and Characterization of the Sources of Contaminations	
2.0 Summary of Remedial Investigation Activities	3
2.1 Investigation of Suspect Leaching Pool	
2.2 Groundwater Investigation	
2.2.1 Groundwater Monitoring Well Installation and Sampling	
2.2.2 Off-Site Discreet Geoprobe Groundwater Sampling	
2.3 Installation of Permanent Soil Vapor Probe Point and Sampling	
2.4 Installation of Sub-Slab Soil Vapor Probe Points and Sampling	
2.5 Receptor Survey	
3.0 Qualitative Human Exposure Assessment	7
3.1 Introduction	
3.2 Contaminants of Concern	
3.3 Media of Concern	
3.4 Potential Sensitive Receptors	
3.5 Exposure Route	
3.6 Exposure Pathways	
3.7 Identification and Evaluation of Exposure Pathways	
3.8 Exposure Assessment Conclusions and Recommendations	
4.0 Conclusions	12
References	13

FIGURES

1. Site Location with Property Boundaries
2. Monitoring Well and Sample Location Map
3. Water Table Elevation and Groundwater Contour Map
4. One Half-Mile Radius Map with Sensitive Receptors
5. Location of PCE Detections in Soil Samples
6. Locations of PCE Detections in Groundwater Samples 11/19/2012
7. Locations of PCE Detections in Soil Vapor and Sub-Slab Vapor Samples 2012 and 2013
8. Locations of PCE Detections in Indoor and Outdoor Air Samples 2012 and 2013
9. Locations of PCE Detections in Discreet Groundwater Borings

TABLES

1. Validated Volatile Organic Compounds in Roof Drain Soil Samples
2. Validated Volatile Organic Compounds in Groundwater Samples
3. Validated Volatile Organic Compounds in Exterior Soil Vapor and Ambient Air Samples
4. Validated Volatile Organic Compounds in Sub-Slab Vapor and Indoor Air Samples 2012.
5. Validated Volatile Organic Compounds in Sub-Slab Vapor, Indoor Air, and Ambient Air Samples 2013
6. Validated Volatile Organic Compounds in Discreet Geoprobe Groundwater Samples

TABLES Continued

7. Vapor Monitoring Point Construction Details
8. Pre-Sampling Product Inventory

APPENDICES

A. Boring Logs and Well Construction Diagrams
B. DUSR and Laboratory Data

1.0 Introduction & Site Background

This report updates the R. I. Report that was submitted in January 2013 and was prepared in accordance with our approved R.I. Work Plan (Ref. 10). The subject Property is located at 157-189 West Merrick Road in Freeport, New York, County of Nassau County (Figure 1). The Property is located on the south side of West Merrick Road between South Long Beach Road and South Ocean Avenue. The shopping plaza is comprised of three one-story buildings and is approximately 2.5 acres in size. The "L" shaped building, which housed the former dry cleaner, was constructed in 1984 and has a building footprint of approximately 42,876 square feet. The Tax Map number for the "L" shaped building is Section: 62; Block: 114; Lot: 131. Site drainage for storm water runoff is directed into a series of parking lot storm water drains. Review of a previous report (Ref. 1) indicates that the subsurface geology at the Property is composed primarily of sands with some silt and gravel down to approximately 15 feet below grade. The shallow groundwater flow at the Site appears to flow in a southerly direction towards Randall Bay. According to maps and reports published by the United States Geological Survey, the Property is underlain by unconsolidated deposits composed of interbedded layers of silt, sand, and gravel at an elevation of approximately 19 feet above mean sea level.

The Site contains a former dry cleaner built in 1984, operating from 1985 to 1996. The space is currently a Laundromat (no dry cleaning is performed on-site), located at units 179A and 181. Phase I and II Environmental Site Assessments (ESA) were conducted in 2006 prompted by a financial transaction for the property. Results from the Phase II ESA indicated perchloroethylene (PCE) in the groundwater on-site. This resulted in the property being designated a Potential (P) disposal site in the Inactive Hazardous Waste Disposal Site (State Superfund) program. A Preliminary Site Assessment (PSA) was completed in March 2010. A Supplemental Soil Vapor Study was completed in June 2010. The site was listed as Class 2 with the program in April 2011. Subsequently, an Order on Consent was negotiated between the Responsible Party and the Department.

The property has been the subject of a series of investigations that have included testing and analysis of soil, groundwater, soil vapor and indoor air quality at the Site and installation of a Sub-Slab Depressurization (SSD) System. Based on the results of those investigations, elevated levels of perchloroethene (PCE) were identified below the building space units 179A and 181. These investigations are summarized in the following documents (Refs. 1, 2, 3, 4 and 5).

1.1 Previous Investigation

Phase II Subsurface Investigation (December 2006) – As part of a pre-purchase site investigation, seven borings were advanced at the Site by Associated Environmental Services, Ltd. Soil samples were collected from five of the borings and groundwater samples were collected from six of the borings. All of the samples were analyzed for Volatile Organic Compounds (VOCs). There were no detections of VOCs in any of the soil samples. Two of the groundwater samples collected in the southwest portion of the property contained PCE at 27 and 37 ug/l. This area is downgradient of the former dry cleaning tenant. A sample location map and data tables for this investigation were included in the R.I. Work Plan (Ref. 10).

Site Characterization Report, Elks Plaza LLC (March 2010) – A Site Characterization Study was performed by Preferred Environmental. A geophysical survey was conducted to identify potential buried features of concern. Four soil samples were collected and analyzed for VOCs: one next to a geophysical anomaly in the parking lot; one next to a dry well; one next to the dumpster used by the former dry cleaner; and one below the location of the former dry cleaning machine. None of the samples detected PCE above their applicable Site Cleanup Objectives (SCOs).
The Laundromat has its own groundwater supply system. The two on-site private supply wells that comprise this system were sampled. In addition, another nine Geoprobe groundwater samples were collected. The groundwater results of these samples ranged from no detection of

PCE to 180 ug/l. The highest PCE detection was located directly behind the geophysical anomaly in the parking lot.

One sub-slab vapor sample and one indoor air sample were collected in the Laundromat along with four exterior soil vapor samples and an outdoor air sample. The sub-slab vapor results ranged from no detection of PCE to 14,900 ug/m^3. The indoor air sample result was 3.3 ug/m^3. The highest PCE reading was in the sub-slab sample from the Laundromat. A sample location map and data tables for this investigation were included in the R.I. Work Plan (Ref. 10).

Supplemental Soil Vapor Investigation, Elks Plaza LLC (June 2010) – As a supplement to the initial Site Characterization Investigation, two additional sub-slab vapor samples and three additional indoor air samples were collected. The PCE in the sub slab vapor samples ranged from 2.17 to 54,000 ug/m^3. The indoor air sample results ranged from 2.17 to 3.25 ug/m^3. A sample location map and data tables for this investigation were included in the R.I. Work Plan (Ref. 10).

Pilot Test Report and Interim Remedial Measures Work Plan (September 2011) – A pilot test was performed by CA RICH as part of an Interim Remedial Measure (IRM) for this site. The pilot test included a boring with continuous soil samples from the ground surface to the water table in the area of the former dry cleaning machine. The cores were screened with a Photoionization Detector (PID). Samples collected from 1 to 2 feet, 7 to 8 feet, 12 to 13 feet and 13 to 15 feet were submitted for laboratory analysis. The soil sample from 1 to 2 feet had a PCE detection of 21.6 ug/kg; there were not detections in the deeper soil samples. Four vapor extraction vents were installed in the Laundromat and pilot tested. Soil vapor samples were collected at the beginning and end of the test. The PCE results ranged from 94,990 ug/m^3 at the beginning of the test to 210,335 ug/m^3 at the end of the test. A sample location map and data tables for this investigation were included in the R.I. Work Plan (Ref. 10).

Sub-Slab Depressurization Construction Completion Report (September 2012) – Based on the results of the pilot test, a Sub-Slab Depressurization system was installed at the Site. The system consists of the four vents installed for the pilot test which were converted into permanent sub-slab depressurization vents. Four-inch diameter sheet metal ducts were extended and connected above the existing Laundromat. These were, in turn, connected to a six-inch diameter riser. Initially, the four-inch diameter ducts transitioned to four-inch diameter PVC pipe which was extend along the roof to the stair well at unit 175. The four-inch pipe was extended down through the roof and into the stair well. It was connected to a moisture knock drum and then to a Fuji Model VFC40 1 HP regenerative blower. The extracted soil vapor is then passed through two 55-gallon vapor phase carbon units. The treated vapor is then connected to a four-inch pipe that extends through the roof of the stair well for a height of six feet above the roof. Once the untreated soil vapor is less than the standards outlined in New York State Department of Environmental Conservation (NYSDEC) DAR-1, we will petition the NYSDEC to turn off the Fuji Blower and replace it with a Fantech fan model HP220. The four-inch diameter PVC pipe will be removed and the Fantech fan will be connected directly to the six-inch riser set above the roof. In a letter dated November 27, 2012 from the NYSDEC to CA RICH, the Department approved the removal of the blower and associated carbon drums and the installation of the Fantech Model HP220 fan. The NYSDEC letter is attached as Appendix C.

1.2 Identification and Characterization of the Sources of Contamination

Based on the work performed to date, the contaminants of concern are dry cleaning fluid or perchloroethene (PCE) and its degradation products. The source of the PCE appears to be incidental releases from the operation of the former dry cleaning establishment that was located in unit 181 of this building. The releases appear to be highest in the form of soil vapor with significantly lower detections in soil and groundwater samples collected at the Site. It is not possible to determine the quantity of PCE that was released at the Site.

2.0 Summary of Remedial Investigation Activities

2.1 Investigation of Suspect Leaching Pool

An investigation of the suspect leaching pool identified during a geophysical survey at the Site was performed on August 28, 2012. A backhoe was mobilized to the Site to expose and uncover the lid to the suspected pool, which was believed to be buried beneath the asphalt pavement at the southwest corner of the Site (see Figure 2). A manually operated pre-cleaned soil auger was then lowered into the leaching pool for the purposes of securing a sample of the bottom sediment. The soil auger was advanced into the top six inches of the bottom sediment within the pool and placed into laboratory issued sample jars. The sample was stored in an ice-filled cooler until delivery to Accutest, an ELAP-approved laboratory. Analysis included VOCs using USEPA Method 8260 with NYSDEC ASP Category B deliverables. Additional field and laboratory QA/QC samples (trip blank, field blank, duplicate, matrix spike and matrix spike duplicate) were also analyzed.

The buried pool is believed to be a storm drain connected to the roof leaders located adjacent to the building. It is eight feet in diameter, 10 feet deep below grade and constructed of precast concrete. The top of the pool is two and a half feet below grade and is finished with a flat circular cover. The cover has a two foot diameter access hole located at the southern portion of the pool which was covered with plywood on the date of our investigation. New asphalt and a manhole cover set at grade were placed over the pool after the sampling was completed.

The soil collected from the pool was brown sand. There was no discernible odor from the sample and no PID reading was measured from the sample. The water in the pool did not contain evidence of detergent nor did it have a septic odor.

A detection of 21.5 ug/kg of PCE was recorded in this sample. This is significantly less than either the NYSDEC Part 375 commercial or protection of groundwater standards for this compound. Low levels of PCE degradation products were also measured, but were again significantly below both the commercial and protection of groundwater standards. The results of the laboratory analysis are summarized on Table 1 and Figure 5. A copy of the laboratory data and DUSR are included in Appendix B.

2.2 Groundwater Investigation

2.2.1 Groundwater Monitoring Well Installation and Sampling

Prior to the installation of the monitoring wells, an underground utility markout was performed. A total of three permanent groundwater monitoring wells were installed along the west, southwest and south perimeters of the Site using the direct push methodology (Geoprobe®).

The monitoring wells were designated MW-1, MW-2 and MW-3 and installed to an approximate depth of twenty three feet below the existing surface grade (see Figure 2). The wells were constructed of 2-inch diameter, schedule 40 PVC riser pipe with fifteen feet of pre-packed well screen. The screen zone straddles the water table with approximately 10 feet in the water table and five feet above the water table. The screened zone was packed with no. 1 gravel up to two feet above the well screen. The wells were completed with a minimum of a two foot bentonite seal above the gravel pack before being finished with a locking cap and flush mounted steel protective curb box. The well construction details are illustrated on the boring logs included in Appendix A.

The wells were developed upon installation using the surge and pump technique until a turbidity of less than 50 NTUs was established. Development water was contained in 55-gallon drum. The wells were allowed to equilibrate in the aquifer for approximately two weeks prior to groundwater sample collection.

The elevation of the top-of-inner PVC casing of each well was surveyed by a NYS-licensed land surveyor to the nearest 0.01 of a foot mean sea level (MSL). The survey is included on Figure 3. Based on the survey and depth to water measurements, the direction of groundwater flow is to the south-southeast.

Groundwater samples were collected from each of the newly installed monitoring wells. Static water levels were collected from each well to determine existing depth to groundwater and to calculate groundwater sample purge volumes. Depth to water measurements were used to generate a Site specific groundwater flow direction map. The wells were purged using an electrically operated submersible pump. The pump was connected to dedicated polyethylene tubing. The well was then purged of a minimum of three well casing volumes with the collection of conventional field parameters of pH, conductivity, turbidity (< 50 NTUs), and temperature until measurements stabilized. All purge water was contained in a 55-gallon drum temporarily stored at the Site pending waste characterization sample results for proper disposal.

All groundwater samples were collected directly from the pump discharge tubing into laboratory issued containers and stored in an ice-filled cooler until delivery to an ELAP-approved laboratory. Analysis included VOCs using USEPA Method 8260 with NYSDEC ASP Category B deliverables. Accutest Laboratories (NELAP-certification # 10983) conducted all of the laboratory analysis. A duplicate sample, trip blank, field blank, matrix spike and matrix spike duplicate were also analyzed.

The results indicate that PCE was only detected in one of the monitoring wells, MW-2, at a concentration of 17.7 ug/l. Well MW-2 is located directly downgradient of the on-site storm water/roof drain and is in the same location that revealed the highest PCE detection during the Site Characterization study. A summary of the groundwater results are included on Table 2 and Figure 6. A copy of the laboratory data and DUSR are included in Appendix B.

2.2.2 Off-Site Discreet Geoprobe Groundwater Sampling

Prior to the installation of the groundwater sampling borings, an underground utility markout was performed. A total of three temporary discreet groundwater sampling locations were installed south of the property along Smith Street using Geoprobe® direct push technology. Each discreet groundwater sampling boring was advanced using a separate borehole for each sample interval. The borings were advanced to the desired depth, and then a four foot screen was deployed from the rods. The groundwater samples were collected from the following intervals; 11-15 feet below grade, 26-30 feet below grade, 41-45 feet below grade, and 56- 60 feet below grade. The samples were designated using the corresponding house address. As shown on Figure 9, the borings were placed in the grassy area right away between the street and sidewalk in front of house numbers 227 and 209 Smith Street. The boring identified as 189 Smith was placed within a grassy island in front of house number 189 Smith Street.

All groundwater samples were collected directly from the discharge of the new polyethylene tubing into laboratory issued containers and stored in an ice-filled cooler until delivery to an ELAP-approved laboratory. Analysis included VOCs using USEPA Method 8260 with NYSDEC ASP Category B deliverables. Accutest Laboratories (NELAP-certification # 10983) conducted all of the laboratory analysis. A duplicate sample, trip blank, field blank, matrix spike and matrix spike duplicate were also analyzed.

The results indicate that PCE was detected in all three groundwater borings; however, only the 209 Smith samples collected from 41-45' and 56-60' exceed the NYS TOGS standards. The 209 Smith samples contained a PCE concentration of 5.6 ug/l at the 41-45' interval and 9.8 ug/l at the 56-60' interval. The groundwater boring located at 209 Smith Street is located directly south (downgradient) of Elks Plaza. A map illustrating the location of the groundwater borings and associated PCE detections is included as Figure 9 and Table 6 summarizes the groundwater results.

2.3 Installation of Permanent Soil Vapor Probe Point and Sampling

A total of two permanent soil vapor sampling probe points designated “RISV-1” and “RISV-2” were installed. Soil vapor sample point “RISV-1” was installed behind the former dry cleaner building space between the building and near the west property boundary. Soil vapor sample point “RISV-2” was installed off-site in the grass area southwest of the Laundromat at the Smith Harbor Apartments located at 222 Smith Street. The vapor points were installed in accordance with the New York State Department of Health (NYSDOH) “Guidance for Evaluating Soil Vapor Intrusion in the State of New York” dated October 2006 (Ref. 6). Construction details are included on Table 7.

Using the NYSDOH guidelines as a reference, the soil vapor points were installed by drilling a two inch diameter hole with a hand auger. The hole was advanced down to a maximum depth of five feet below the surface grade to allow the installation of 1/4-inch stainless steel pipe connected to a slotted sample port. The annular space around the sample port was filled with clean sand and then plugged with a bentonite seal up to the bottom portion of the protective curb box. The curb box was cemented in-place and the inside finished with gravel to allow for any drainage.

The stainless steel sample probe was fitted with a three-way “T” connector valve assembly and 1/4-inch polyethylene tubing. Before collecting the soil vapor sample, the sample tubing was purged using a vacuum pump set at a rate of approximately 0.2 liters per minute. A helium tracer gas was used to enrich the atmosphere around the sampling location. The tracer gas verifies that ambient air is not inadvertently drawn down into the soil vapor sample. Both the purge volume from the sampling tube and the helium-enriched air within the container were screened for the tracer gas using a Gowmac® Model 21-250 gas leak detector. The following Helium readings were recorded prior to sampling: RISV-1 175 ppm or 0.0175% and RISV-2 0.0 ppm. These readings are both below the 10% level outlined in the NYSDOH guidance manual (Ref. 6).

The results of the soil vapor sampling indicated that the concentration of PCE ranged from 3.7 ug/m^3 to 26 ug/m^3 in the two points installed for this project. There are no standards for soil vapor beyond the footprint of a building. PCE was not detected in the ambient air sample. The results are summarized on Table 3 and on Figures 7 and 8. Table 7 summarizes the vapor construction details. A copy of the laboratory data is included in Appendix B.

2.4 Installation of Sub-Slab Soil Vapor Probe Points and Sampling

On August 21, 2012 one permanent sub-slab vapor sampling point identified as SSV-Basement was installed in the basement of the Woodward Children’s Center (201 Merrick Road). Construction details are included on Table 7. A second and third temporary sub-slab vapor sampling point was installed on the ground floor of the building in classrooms B12 and G5 (Figure 2) were also installed on August 21, 2012. On August 22, 2012 both the purge volume from the sampling tube and the helium-enriched air within the container were screened for the tracer gas using a Gowmac® Model 21-250 gas leak detector. The following Helium readings were recorded prior to sampling: SSV-Basement 0.0 ppm; SSV-B-12 750 ppm or 0.075%; and SSV-G-5 0.0 ppm. These readings are also below the 10% level outlined in the NYSDOH guidance manual (Ref. 6).

The results for PCE at all three indoor air sample locations were either not detected or below the NYSDOH Matrix 2 No Further Action level for indoor air. The sub-slab vapor at the two classroom locations were either not detected or below the NYSDOH Matrix 2 No Further Action level sub-slab soil vapor for PCE. At the basement location, the sub-slab vapor concentration of PCE was 142 ug/m^3 which is in the Monitor range. The sample results are summarized on Table 4 and Figures 7 & 8. In addition, a Product Inventory was conducted as part of the soil vapor investigation and is included as Table 8.

Additional air sampling was conducted on February 21, 2013. The permanent sub-slab vapor sampling point SSV-Basement located in the basement of the Woodward Children's Center (201 Merrick Road) was sampled. A second and third temporary sub-slab vapor sampling point was installed on the ground floor of the building in classrooms B12 and G5 were also installed on February 21, 2013, near the previous sampling locations. On February 22, 2013 both the purge volume from the sampling tube and the helium-enriched air within the container were screened for the tracer gas using a Gowmac® Model 21-250 gas leak detector. The following Helium readings were recorded prior to sampling: SSV-Basement 580 ppm; SSV-B-12 650 ppm; and SSV-G-5 2,000 ppm. These readings are also below the 10% level outlined in the NYSDOH guidance manual.

The results for PCE at all three indoor air sample locations were either not detected or below the NYSDOH Matrix 2 No Further Action level for indoor air. The sub-slab vapor at the two classroom locations were either not detected or below the NYSDOH Matrix 2 No Further Action level in sub-slab soil vapor for PCE. At the basement location, the sub-slab vapor concentration of PCE was 71.2 ug/m^3, which is in the No Further Action level. However, a duplicate sample, SS-XX, was collected from the basement sub-slab. The sub-slab vapor concentration of PCE in SS-XX was 163 ug/m^3, which is in the Monitor range. The sample results are summarized on Table 5 and Figures 7 & 8. In addition, a Product Inventory was conducted as part of the soil vapor investigation and is included as Table 8.

2.5 Receptor Survey

CA RICH conducted a sensitive receptor survey to identify any potential impacts to human health and/or the environment. The survey identified six nearby schools, two medical centers, and one municipal well field used for drinking water. No surface water bodies, wetlands, or other ecologically sensitive resources were identified. The survey also identified one on-site utility vault and eight on-site storm water drains. These are illustrated on Figure 2.

Our research of available background information has determined that that there are no wetlands, groundwater recharge basins, or surface water bodies in immediate proximity to the Site. A map depicting a ½-mile radius of any sensitive receptors in the area is included as Figure 4. The map includes the public well field located hydraulically upgradient of the Site (north of Hwy. Rt. 27).

As part of the preparation of the R.I. Work Plan, we submitted a freedom of information request to Nassau County Department of Health (NCDH) to obtain copies of any additional information related to well permits that may exist in proximity to the Site. The following summarizes the information obtained from NCDH regarding the well locations within a ½-mile radius of the Site.

Well No.	Depth	Screen Elevations (msl)	Formation	Status
N 68	512 ft.	-425 to -475 ft.	Magothy	Active
N 69	500 ft.	-420 to -470 ft.	Magothy	Active
N 5695	529 ft.	-442 to -502 ft.	Magothy	Active
N 8657	640 ft.	-542 to -612 ft.	Magothy	Active

There are two non-potable, commercial supply wells located in the rear of the property near the Laundromat. Supply well #1 is out of service and is reported to be 200 feet deep. Supply well #2 is used solely to provide water to the washing machines. The depth of supply well #2 was not reported (Ref 2).

Supply well #2 was sampled on April 17, 2009 as part of the site characterization investigation. There were no VOCs detected in this sample (Ref 2).

3.0 Qualitative Human Exposure Assessment

3.1 Introduction

The site investigation and cleanup is being administered under the NYSDEC, State Superfund program. As part of the State Superfund process, this Off-Site Qualitative Exposure Assessment (EA) was performed to determine whether the property poses an existing or future health hazard to the site's exposed or potentially exposed population. The available sampling data for the environmental media was reviewed to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This EA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 7).

The five elements of an exposure pathway are: 1) a contaminant source; 2) contaminant release and transport mechanisms; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population. An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway cannot be documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future.

Land Use of Elks Plaza and Neighboring Properties-Current and Future Exposure Setting - The area immediately surrounding Elks Plaza is residential/commercial. There are several commercial buildings to the east and west of Elks Plaza. The properties to the north and south are predominately residential.

It is expected that the future use of the Elks Plaza and adjoining properties would remain residential/commercial because the surrounding land use is residential/commercial and the area is zoned residential/commercial. The residential land use in the surrounding area is zoned residential and is anticipated to remain residential since the neighborhood is well developed and established.

3.2 Contaminants of Concern

General Background - Based upon all background information and sampling data, the contaminants of concern include PCE, and PCE degradation products (TCE, DCE and vinyl chloride).

Regulatory Criteria - The concentrations of the media and contaminants of concern found at the site were compared to the following standards or guidance values:

- Soil - 6NYCRR Part 375 NYSDEC Protection of Groundwater Soil Cleanup Objectives. (Ref. 8);
- Soil Vapor - NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in NYS (Ref. 6); and
- Groundwater - Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC (Ref. 9).

3.3 Media of Concern

Soil – PCE was detected in two soil samples collected from the site. One sample was collected as part of the IRM at a depth of 1 to 2 feet below grade in the area of the former dry cleaning machine. This sample had a PCE detection of 21.6 ug/kg. No other VOCs were detected in this sample. Another sample was collected from a storm water / roof drain located in the back of the property. This sample had a PCE detection of 21.5 ug/kg.

The following is a summary of the highest detections of VOCs in soil detected at the site:

Organic Compound	Highest Detection	NYSDEC Part 375 Protection of Groundwater Standards
PCE	21.6 ug/kg	1,300 ug/kg
TCE	8.0 ug/kg	470 ug/kg
Cis-1,2-DCE	32.4 ug/kg	250 ug/kg
Trans-DCE	2.8 ug/kg	190 ug/kg
Vinyl Chloride	14.9 ug/kg	20 ug/kg

Soil Vapor – Soil vapor samples were collected both on-site and off-site.

On-Site: The soil vapor extracted by the SSD system during the pilot test was tested. A PCE concentration of 210,335 ug/m^3 was recorded during the pilot test. When the system was initially installed, it was connected to a 1-HP blower and the extracted soil vapor was analyzed quarterly. Between June 21, 2012 and September 20, 2012 the PCE concentrations in the extracted soil vapor ranged from 4,050 to 3,380 ug/m^3. After the September 2012 sample collection, the 1-HP blower was removed and replaced with a Fantech SSD fan. The following is a summary of detections for the untreated soil vapor sample collected from the SSD system when the blower was removed and replaced with a SSD fan:

On-Site Organic Compound	Third Qtr. 2012	NYSDOH Matrix for No Further Action Sub-Slab Soil Vapor
PCE	3,380 ug/m^3	< 100 ug/m^3
TCE	54.3 ug/m^3	< 5.0 ug/m^3
Cis-1,2-DCE	12 ug/m^3	< 100 ug/m^3
Trans-DCE	Not detected	No value given
Vinyl Chloride	Not detected	< 5.0 ug/m^3

In addition, exterior soil vapor samples were collected from two points, RISV-1 and RISV-2, in August, 2012. The following is a summary of the highest detections of VOC's detected in on-site soil vapor samples collected in August 2012:

On-Site Organic Compound	August 2012	NYSDOH Matrix for No Further Action Sub-Slab Soil Vapor
PCE	16 ug/m^3	< 100 ug/m^3
TCE	Not detected	< 5.0 ug/m^3
Cis-1,2-DCE	Not detected	< 100 ug/m^3
Trans-DCE	Not detected	No value given
Vinyl Chloride	Not detected	< 5.0 ug/m^3

Off-Site: A total of three off-site soil vapor samples and three indoor air samples were collected in August 2012. The highest PCE detection was from the basement of the Woodward Children Center. The following is a summary of the highest detections of VOC's detected in on-site soil vapor samples collected in August 2012.

Off-Site Organic Compound	Aug. 2012 Highest Detection	NYSDOH Matrix for No Further Action Sub-Slab Soil Vapor
PCE	142 ug/m^3	< 100 ug/m^3
TCE	Not detected	< 5.0 ug/m^3
Cis-1,2-DCE	Not detected	< 100 ug/m^3
Trans-DCE	Not detected	No value given
Vinyl Chloride	Not detected	< 5.0 ug/m^3

A total of three off-site sub-slab soil vapor samples and three indoor air samples were collected again in February 2013 during Winter conditions. The highest PCE detection was again from the basement of the Woodward Children Center. The following is a summary of the highest detections of VOC's detected in off-site soil vapor samples collected in February 2013:

Off-Site Organic Compound	Feb. 2013 Highest Detection	NYSDOH Matrix for No Further Action Sub-Slab Soil Vapor
PCE	163 ug/m^3	< 100 ug/m^3
TCE	2.0 ug/m^3	< 5.0 ug/m^3
Cis-1,2-DCE	Not detected	< 100 ug/m^3
Trans-DCE	Not detected	No value given
Vinyl Chloride	Not detected	< 5.0 ug/m^3

Groundwater – Three permanent groundwater monitoring wells (MW-1, MW-2, and MW-3) exist at the site. In addition three temporary groundwater sampling points were installed along Smith Street.

On-Site: Results from the August 2012 sampling event are listed below. The highest concentration of PCE was detected in well MW-2:

Organic Compound	Highest Detection	TOGS
PCE	17.7 ug/l	5 ug/l
TCE	10.2 ug/l	5 ug/l
Cis-1,2-DCE	6.7 ug/l	5 ug/l
Trans-DCE	Not detected	5 ug/l
Vinyl Chloride	Not detected	2 ug/l

Off-Site: Three groundwater samples were collected off-site. The highest concentration of PCE was detected in in boring 209 Smith (56 to 60feet). Results from the August 2013 sampling event are listed below:

Organic Compound	Highest Detection	TOGS
PCE	9.8 ug/l	5 ug/l
TCE	0.89 J ug/l	5 ug/l
Cis-1,2-DCE	Not detected	5 ug/l
Trans-DCE	Not detected	5 ug/l
Vinyl Chloride	Not detected	2 ug/l

J = estimated value

3.4 Potential Sensitive Receptors

On-Site Receptors - Potential on-site receptors include: commercial building occupants, store customers, construction workers and area residents:

1. Commercial Business Building Occupants – existing and future
2. Building Construction/Renovation Workers – existing and future
3. Pedestrians, Trespassers, Cyclists – existing and future
4. Area Residents – existing and future

Off-Site Receptors - Potential off-site receptors within a 0.25-mile radius of the site include: commercial building occupants, construction workers and area residents:

1. Commercial Business Building Occupants – existing and future
2. Building Construction/Renovation Workers – existing and future
3. Pedestrians, Trespassers, Cyclists – existing and future
4. Area Residents – existing and future

Visitors, pedestrians, trespassers, cyclists, and miscellaneous delivery personnel would have significantly less potential for exposure than building occupants; and therefore were not included in further consideration.

A potential exposure pathway via contaminated groundwater is unlikely because the area is served by a public water supply that is not affected by this contamination.

There is no potential exposure pathway via soil for both present and future use because soil contamination was found in the subsurface, but there were no detections exceeding the Part 375 SCOs.

There is a potential exposure pathway via soil vapor intrusion in the on-site structure that was the focus of the environmental investigation. A sub-slab depressurization system (SSDS) has been installed in a section of the on-site structure and is mitigating the potential for soil vapor intrusion to occur.

3.5 Exposure Route

An exposure route is the mechanism by which a receptor comes into contact with a chemical. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, soil or building materials.

3.6 Exposure Pathways

Based on the current and projected future use of this site, the following pathways will be evaluated in this Exposure Assessment:

1. Migration of subsurface VOC soil vapors from contaminated soil or groundwater into the indoor air of overlying or neighboring structures and the potential inhalation of soil vapor via soil vapor intrusion.

2. Migration of VOC contaminated groundwater, off-gassing of VOC vapors into neighboring structures and inhalation of vapors.

3. Migration of VOC contaminated groundwater and ingestion by area residents and workers.

3.7 Identification and Evaluation of Exposure Pathways (Contaminant source; contaminant release and transport mechanism; point of exposure; route of exposure; and receptor population)

The migration of contaminated soil vapor from underneath a section of the existing shopping center structure into the indoor air of specific tenant spaces is currently being mitigated with a sub-slab depressurization system (SSDS). Pilot tests and a system start-up test have confirmed that negative pressure is created and maintained below the area of the former dry cleaner. The SSDS is equipped with a vacuum gauge mounted in the office of the Laundromat that has a low vacuum visual alarm. In the event the low vacuum visual alarm is illuminated, there is a sign written in English and Spanish next to the gauge indicating the phone number to call for service. The Operator of the Laundromat and the property maintenance manager have been advised of the gauge and alarm. As such, the on-site soil vapor pathway is not complete.
Based on the concentrations of PCE and related compounds in the soil vapor adjoining the property, only one sample location suggests that there may be a potential pathway for off-site migration of soil vapor. A reading of 142 ug/m^3 and 163 ug/m^3 of PCE were detected below the basement of the Woodward School in August 2012 and February 2013. However, the indoor air in the maintenance room above these detection were below the NYSDOH 2006 guidance for mitigation. There were no detections of PCE in the classrooms tested during the August 2012 sampling. There was one minor detection of PCE in the indoor air of room B-12 during the February 2013 sampling. The concentration of PCE from the February 2013 sampling was 0.27 ug/m^3, which is below the standard of < 3. Continued monitoring of the sub-slab vapor and indoor air at the basement maintenance room is recommended. As such, the off-site soil vapor pathway is not complete.

Monitoring well MW-2 is located downgradient of the former dry cleaner. This well had a PCE detection of 17.7 ug/l, just slightly above the groundwater standard of 5 ug/l. The results of 12 groundwater samples collected from three boings installed along Smith Street displayed PCE detection of less than 10 ug/l. There are no known supply wells downgradient of the site. There is also one downgradient soil vapor point, RISV-2. The results from this point do not indicate that soil vapor is off-gassing from the groundwater. A program of scheduled groundwater monitoring is recommended for this site. As such, the groundwater pathway is not complete.

3.8 Exposure Assessment Conclusions and Recommendations

Based upon this analysis, there is a potential for soil vapor contaminated with PCE below the slab of the former dry cleaner to impact the indoor air quality of the overlying structure. However, the installation and operation of an SSDS is mitigating the potential for soil vapor intrusion to occur. In addition, there was one detection of PCE below the maintenance room of the Woodward school. This condition should be addressed with scheduled monitoring. There was one detection of PCE slightly above groundwater standards in an on-site monitoring well downgradient of the former dry cleaner. This should be addressed with a program of scheduled groundwater monitoring. There were two detections of PCE slightly above groundwater standards in an off-site groundwater boring. There are no known downgradient supply wells and off-gassing from the groundwater has not been suspected. As such, there are no complete exposure pathways at this site.

Follow up actions should include:

- Periodic sub-slab and indoor air monitoring at the Woodward School during the Winter;
- Periodic inspections of the SSD system and indoor air sampling at the Laundromat; and
- Periodic sampling and analysis of the on-site groundwater monitoring wells.

4.0 Conclusions

The following summarizes our Remedial Investigation conclusions for Site:

- Soil sampling performed at this site has not revealed detections of PCE above Part 375 SCOs either below the floor of the former dry cleaner or in the roof/storm water drain behind the former dry cleaner.

- On-site monitoring wells confirmed that the direction of groundwater flow is to the south-southeast.

- There was one detection of PCE at 17.7 ug/l in a site monitoring well downgradient of the former dry cleaner. The groundwater standard for PCE is 5 ug/l and there are no known downgradient supply wells.

- There were two detections of PCE above groundwater standards in boring 209 Smith. Sample intervals 41-45' and 56-60' contained PCE concentrations of 5.6 ug/l and 9.8 ug/l respectively.

- The existing SSD system develops negative pressure (or vacuum) in the area of the former dry cleaner.

- PCE was detected at 142 ug/m^3 below the basement of the nearby Woodward Children's Center in August 2012. However, there were no indoor air detections above the NYSDOH 2006 mitigation criteria and no detections in the classrooms sampled during this investigation.

- PCE was detected below the basement of the nearby Woodward Children's Center in February 2013. At the basement location, the sub-slab vapor concentration of PCE was 71.2 ug/m^3 and the duplicate sample (SS-XX), also collected from the basement location, had a PCE concentration of 163 ug/m^3. However, there were no indoor air detections above the NYSDOH 2006 mitigation criteria. According to the NYSDOH Decision Matrices the sub-slab soil vapor and indoor air concentrations require monitoring. Only a minor detection of PCE was identified in classroom B-12 at a concentration of 0.27 ug/m^3, which is significantly lower than the NYSDOH Air Guideline Value of 30 ug/m^3.

References

1. Associated Environmental Services, December 2006, Phase II Environmental Site Assessment.

2. Preferred Environmental Services March 2010, Site Characterization Report, Elks Plaza LLC - Site # 1-30-193, 157 -189 West Merrick Road, Freeport, NY.

3. Preferred Environmental Services June 2010, Supplemental Soil Vapor Investigation, Elks Plaza LLC - Site # 130193, 157 -189 West Merrick Road, Freeport, NY.

4. CA Rich Consultants, Inc. September 2011, Pilot Test Report and Interim Remedial Measures Work Plan, Elks Plaza LLC - Site # 130193, 157 -189 West Merrick Road, Freeport, NY.

5. CA Rich Consultants, Inc. September 2012, Sub-Slab Depressurization System Construction Completion Report, Elks Plaza, LLC, 157-189 West Merrick Road, Freeport, NY.

6. NYSDOH, October 2006, Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

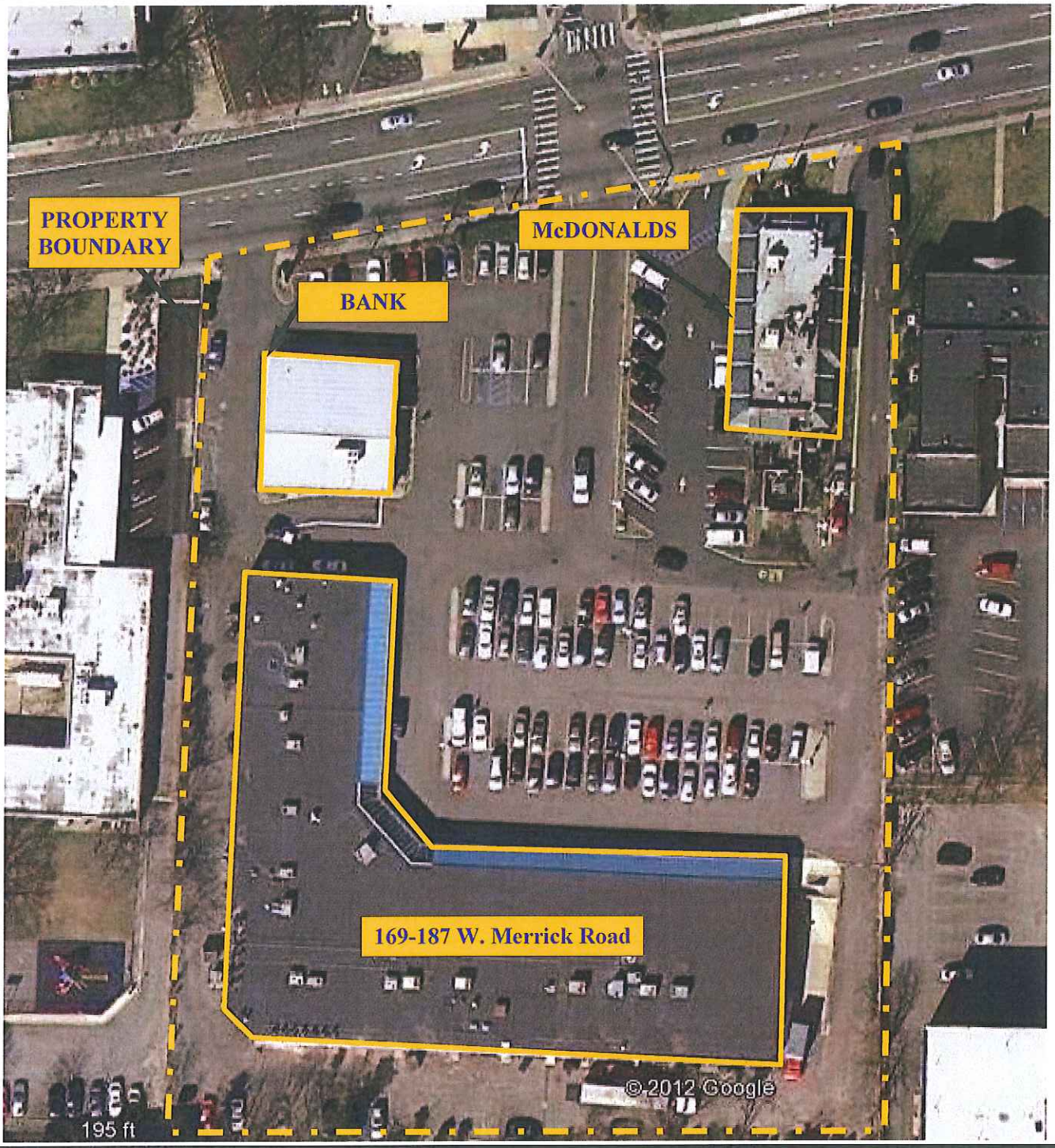
7. NYSDEC, May 3, 2010, DER-10 / Technical Guidance for Site Investigation and Remediation.

8. NYSDEC, December 14, 2006, 6NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives.

9. NYSDEC, October 22, 1993, Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values.

10. CA Rich Consultants, Inc. July 2012, Remedial Investigation Work Plan, Elks Plaza, LLC, 157-189 West Merrick Road, Freeport, NY.

FIGURES

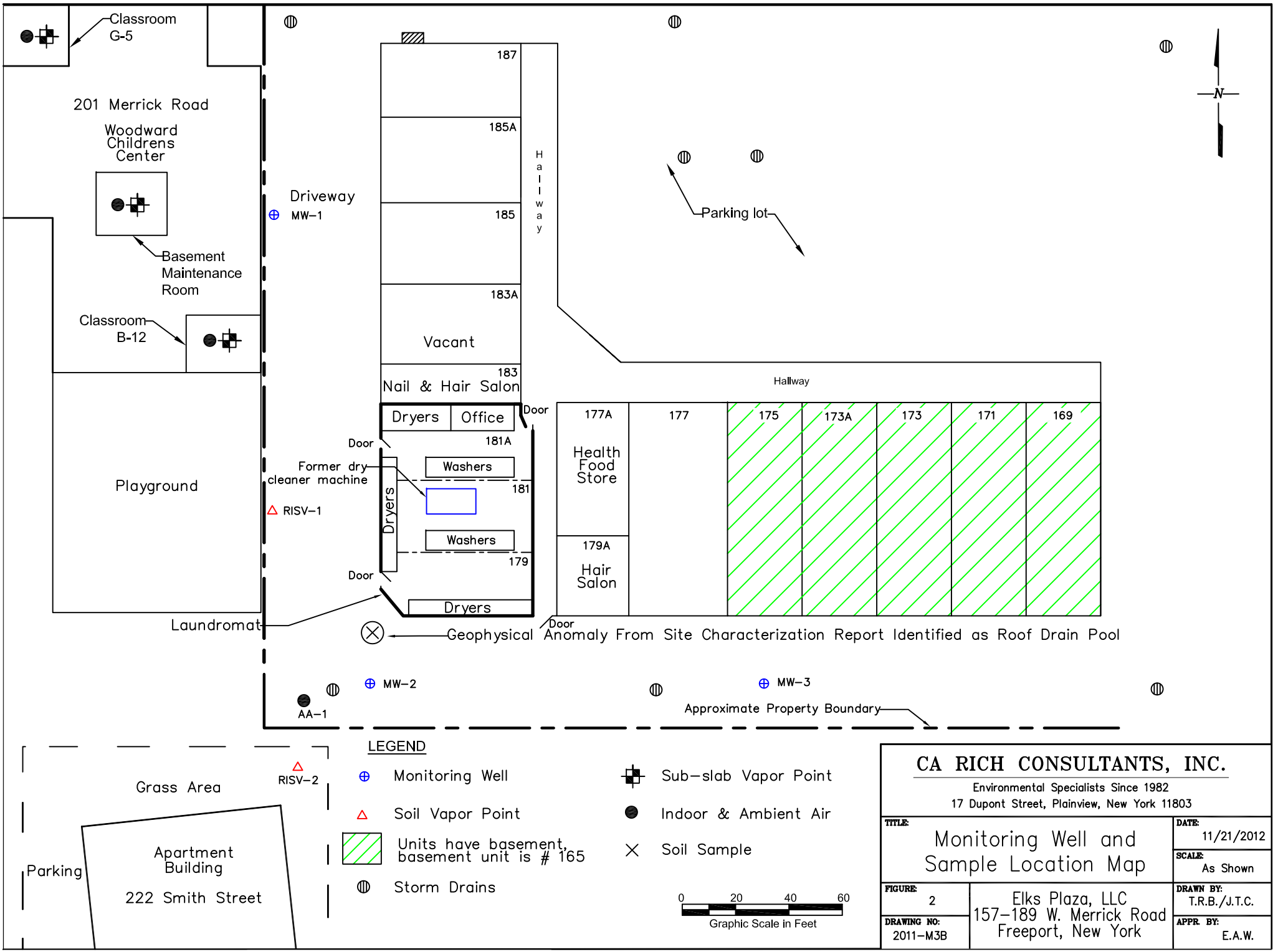


N

Adapted from Google Earth 2012

CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE: **SITE PLAN WITH PROPERTY BOUNDARIES**	DATE: **6/8/2012**
	SCALE: **Not to scale**
FIGURE: **1**	**Elks Plaza, LLC** **157-189 W. Merrick Road** **Freeport, New York**
DRAWING:	DRAWN BY: **JTC**
	APPR. BY: **EAW**



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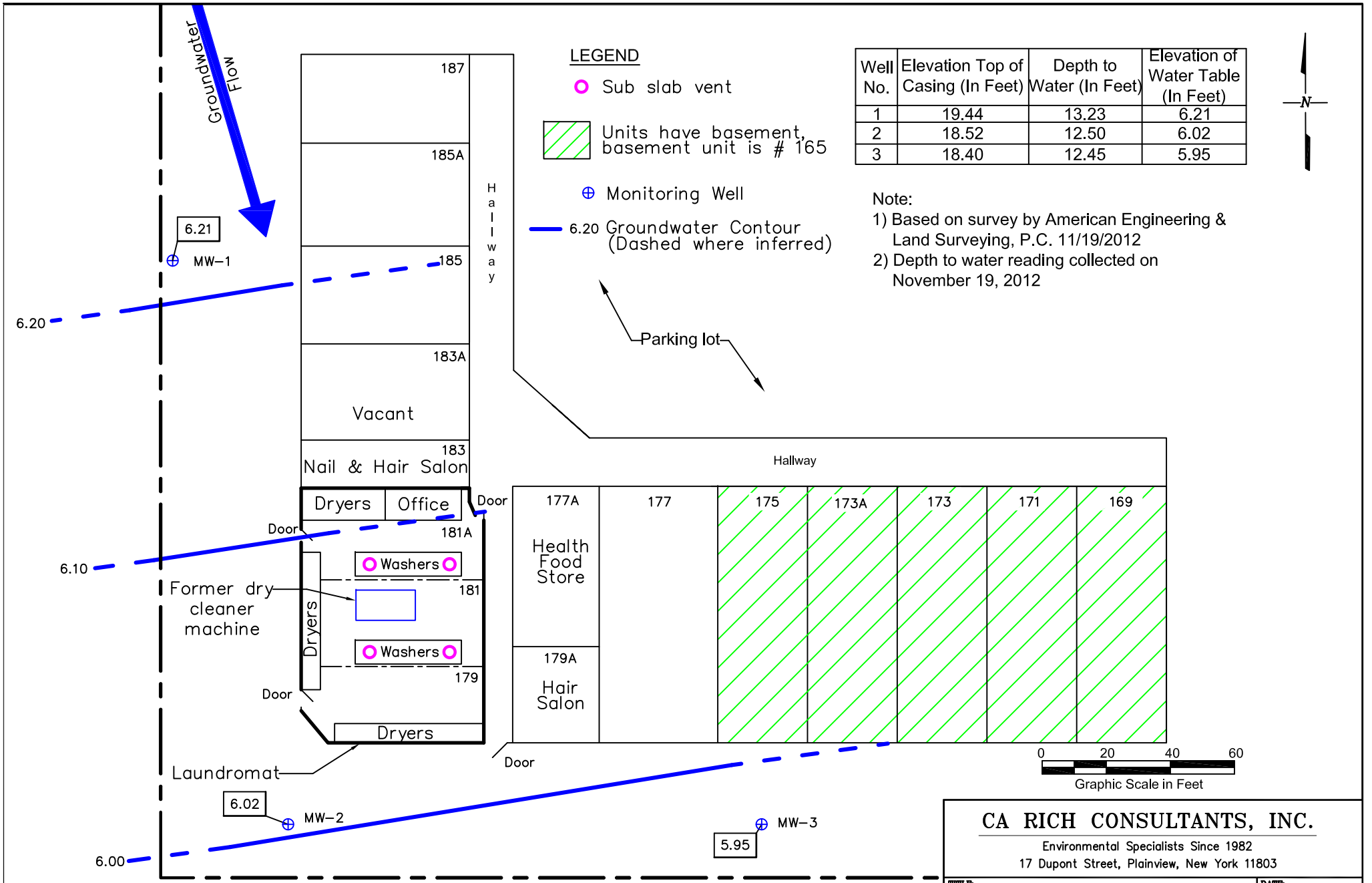
17 Dupont Street, Plainview, New York 11803

TITLE: Monitoring Well and Sample Location Map	DATE: 11/21/2012
	SCALE: As Shown
FIGURE: 2	DRAWN BY: T.R.B./J.T.C.
DRAWING NO: 2011-M3B	APPR. BY: E.A.W.

Elks Plaza, LLC
157-189 W. Merrick Road
Freeport, New York



Well No.	Elevation Top of Casing (In Feet)	Depth to Water (In Feet)	Elevation of Water Table (In Feet)
1	19.44	13.23	6.21
2	18.52	12.50	6.02
3	18.40	12.45	5.95

Note:
1) Based on survey by American Engineering & Land Surveying, P.C. 11/19/2012
2) Depth to water reading collected on November 19, 2012

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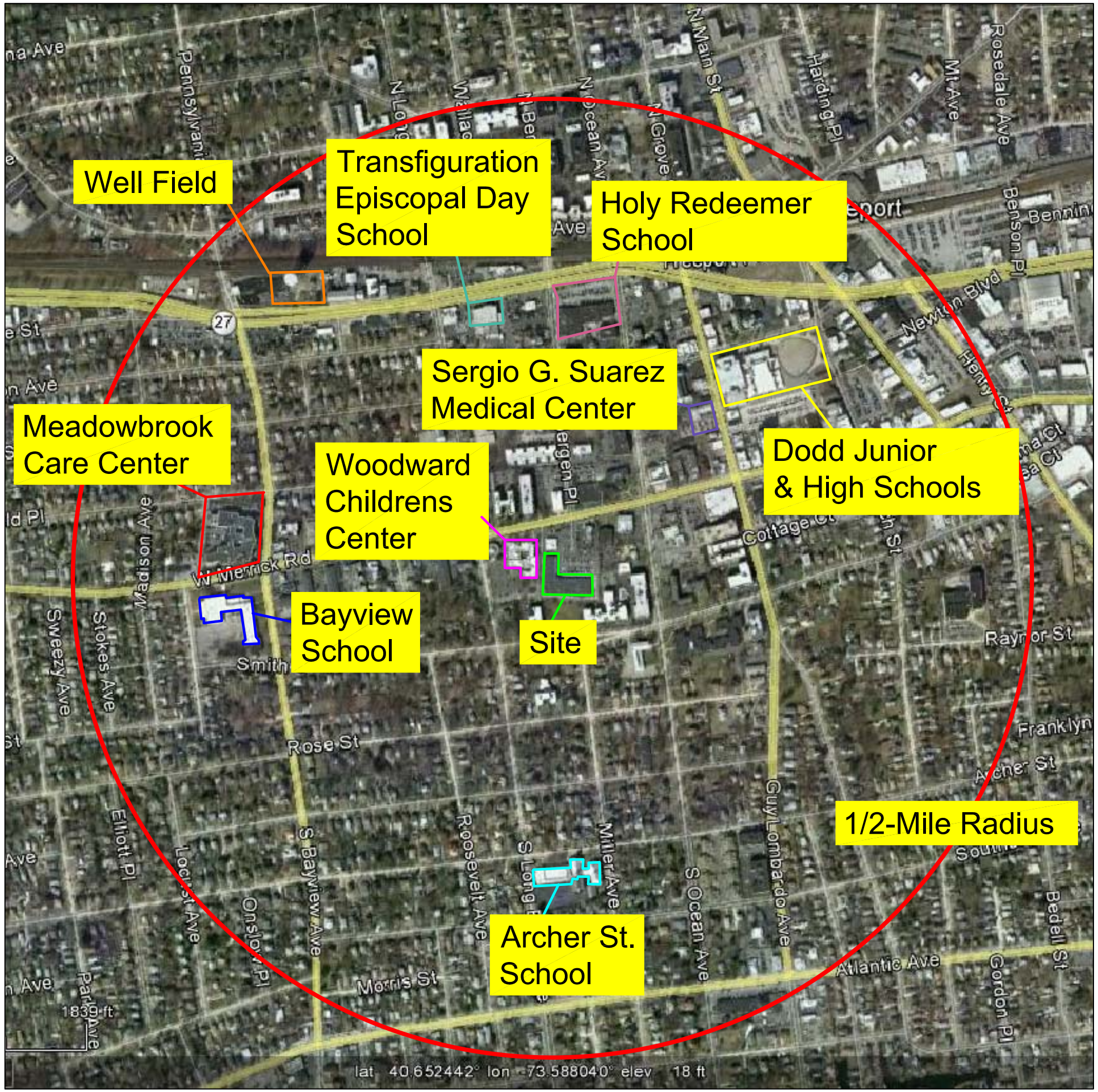
TITLE: Water Table Elevation and Groundwater Contour Map	DATE: 1/9/2013
	SCALE: As Shown
FIGURE: 3	Elks Plaza, LLC 157-189 W. Merrick Road Freeport, New York
DRAWING NO: 2012-7	DRAWN BY: J.T.C./T.R.B.
	APPR. BY: E.A.W.



Legend

- Bayview School
- Dodd Junior & Senior Schools
- Archer St. School
- Site
- Well Field
- Woodward Childrens Center
- Meadowbrook Care Center
- Sergio G. Suarez Medical Center
- Holy Redeemer School
- Transfiguration Episcopal Day School

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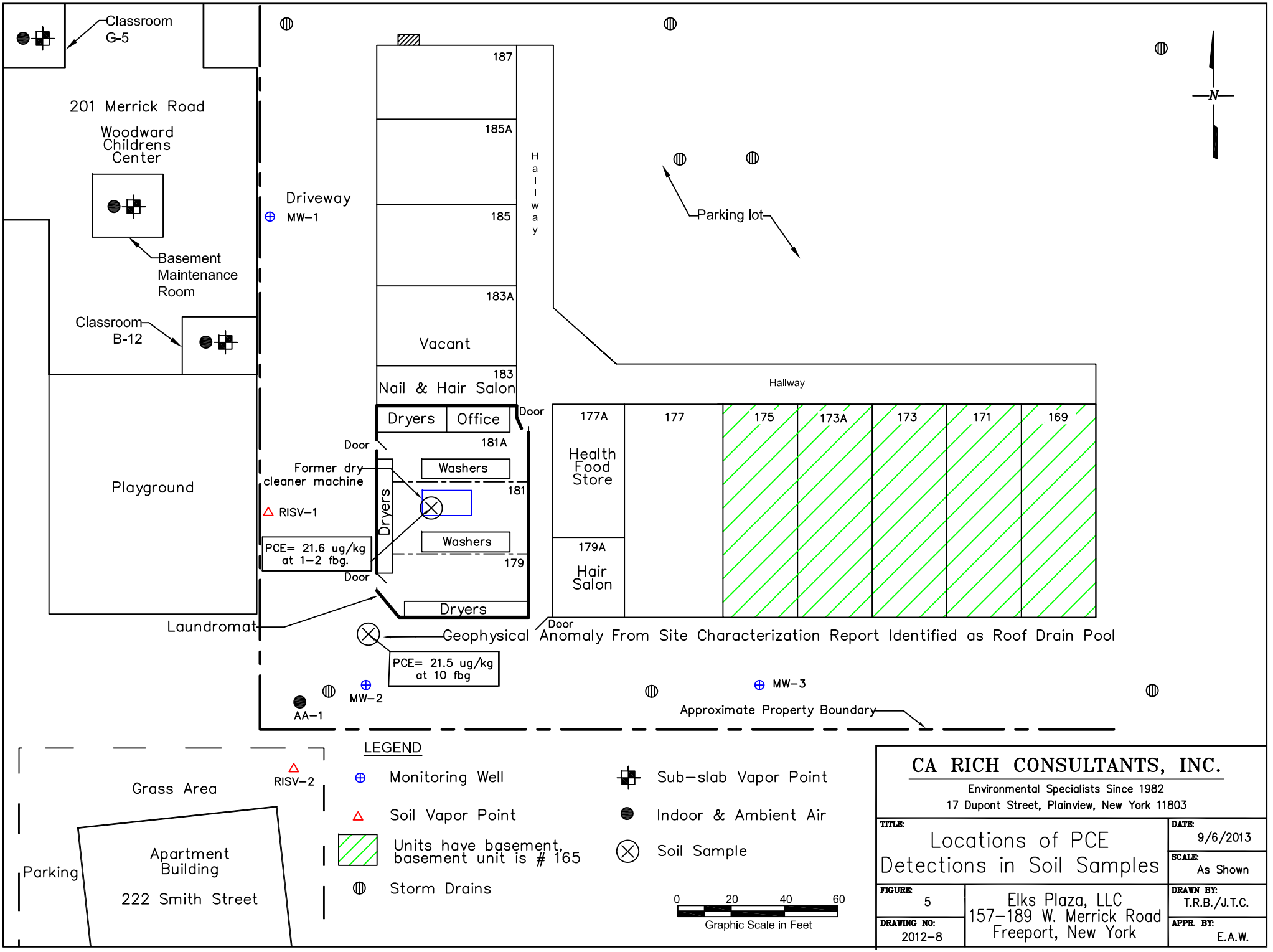
17 Dupont Street, Plainview, New York 11803

TITLE: 1/2-Mile Radius Map With Sensitive Receptors		DATE: 11/21/2012
		SCALE: AS SHOWN
FIGURE: 4	Elks Plaza, LLC 157-189 Merrick Rd Freeport, New York	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2012-4		APPR. BY: E.A.W.



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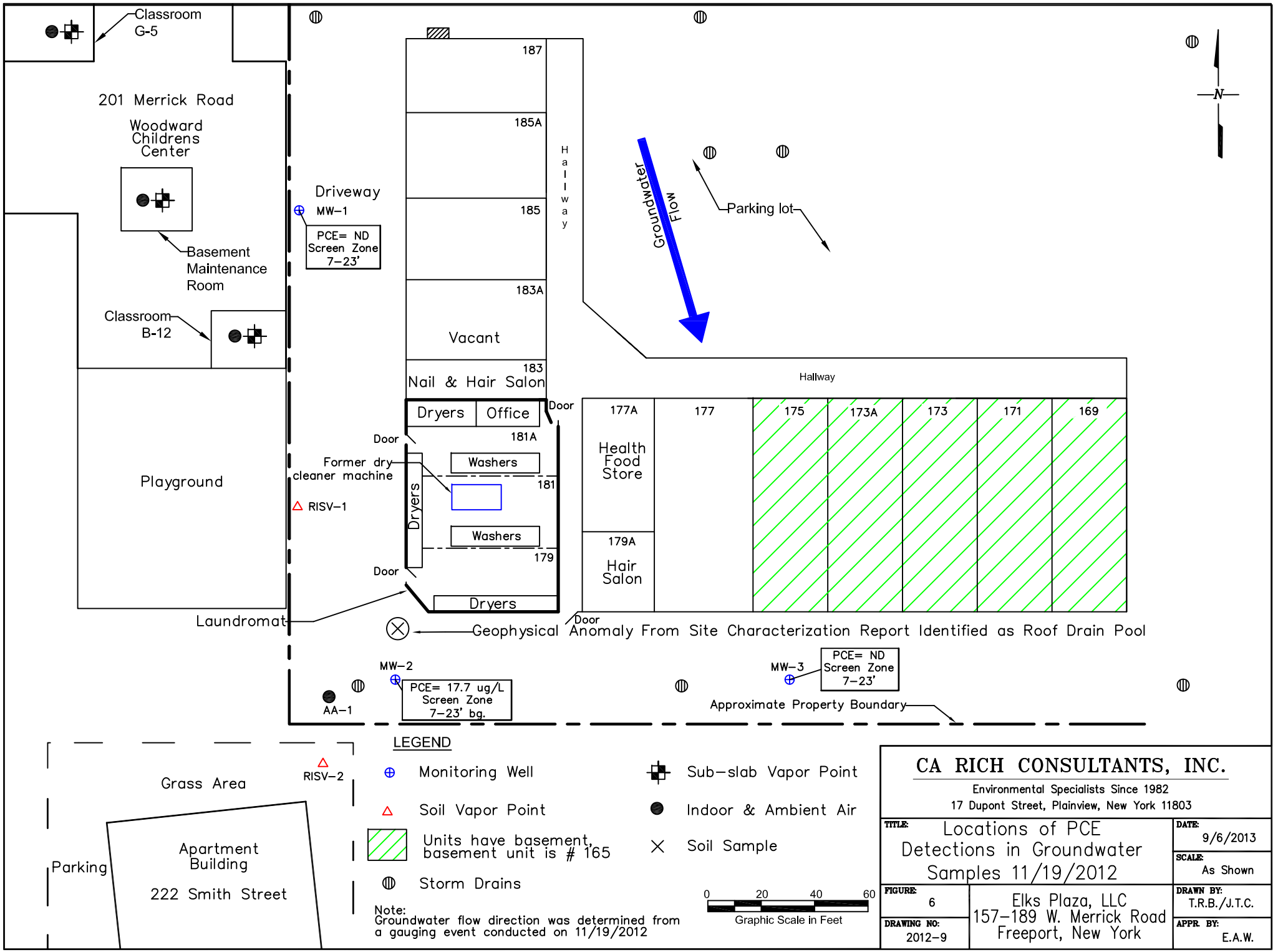
17 Dupont Street, Plainview, New York 11803

TITLE: Locations of PCE Detections in Soil Samples	DATE: 9/6/2013
	SCALE: As Shown
FIGURE: 5	Elks Plaza, LLC 157-189 W. Merrick Road Freeport, New York
DRAWING NO: 2012-8	DRAWN BY: T.R.B./J.T.C.
	APPR. BY: E.A.W.



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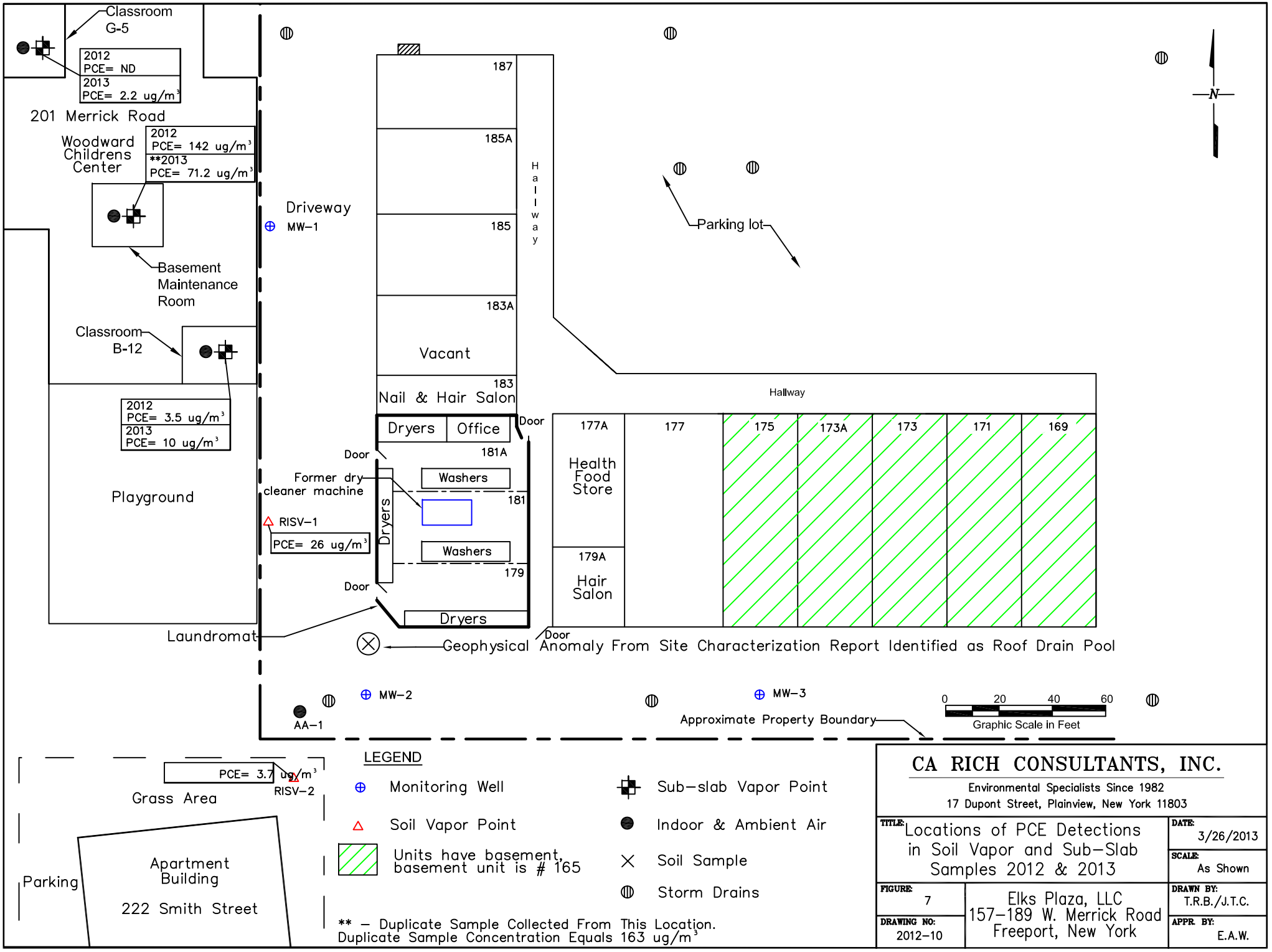
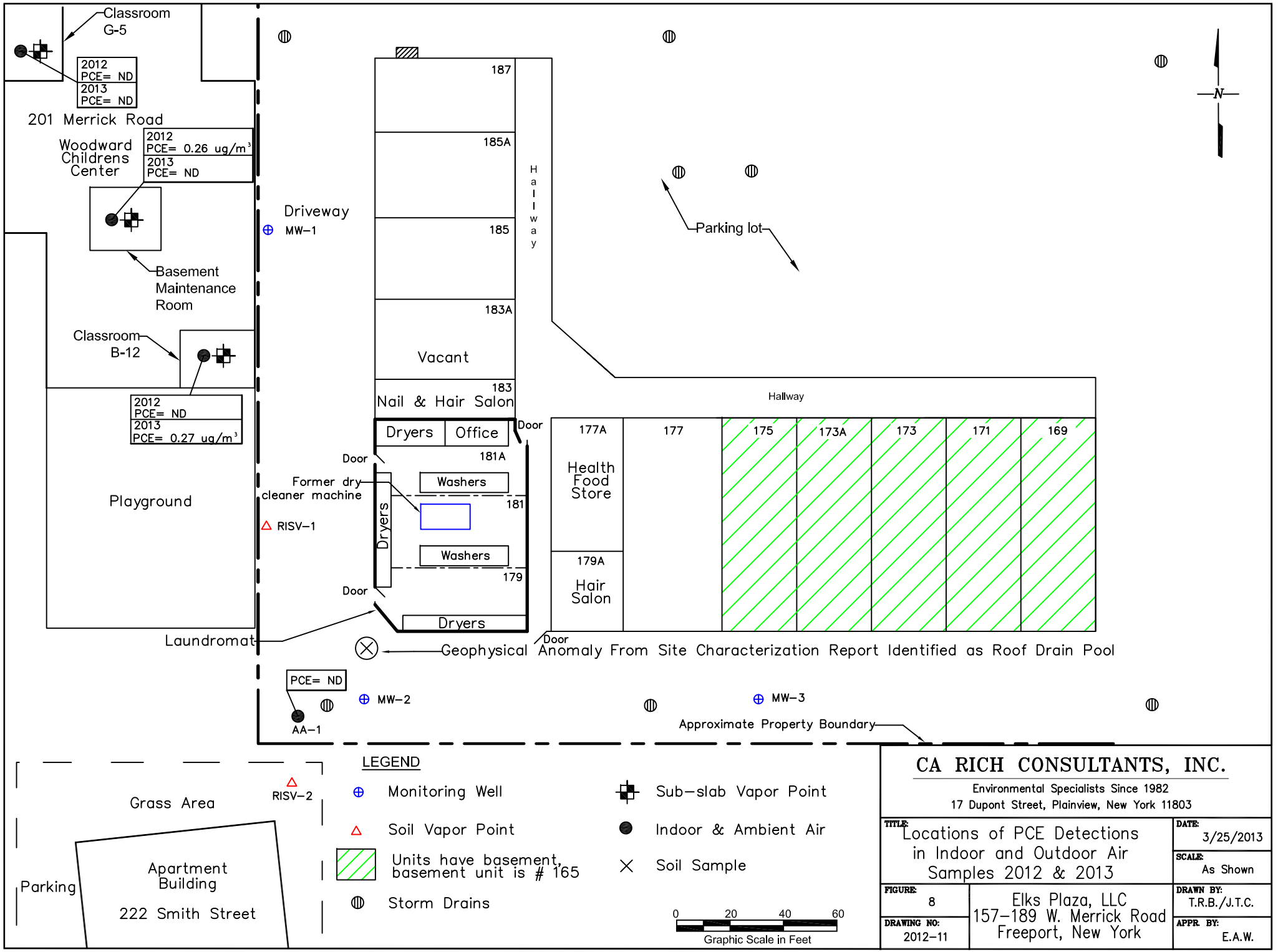
17 Dupont Street, Plainview, New York 11803

TITLE: Locations of PCE Detections in Groundwater Samples 11/19/2012	DATE: 9/6/2013
	SCALE: As Shown
FIGURE: 6	DRAWN BY: T.R.B./J.T.C.
DRAWING NO: 2012-9	APPR. BY: E.A.W.

Elks Plaza, LLC
157-189 W. Merrick Road
Freeport, New York


Classroom G-5
2012 PCE= ND
2013 PCE= 2.2 ug/m3
201 Merrick Road
Woodward Childrens Center
2012 PCE= 142 ug/m3
**2013 PCE= 71.2 ug/m3
Basement Maintenance Room
Classroom B-12
2012 PCE= 3.5 ug/m3
2013 PCE= 10 ug/m3
Playground
Laundromat
Driveway
MW-1
187
185A
185
183A
Vacant
183
Nail & Hair Salon
Dryers
Office
Door
181A
Washers
181
Dryers
Washers
179
Dryers
Door
Former dry cleaner machine
RISV-1
PCE= 26 ug/m3
Hallway
177A
Health Food Store
179A
Hair Salon
177
175
173A
173
171
169
Door
Hallway
Parking lot
N
Geophysical Anomaly From Site Characterization Report Identified as Roof Drain Pool
MW-2
AA-1
MW-3
Approximate Property Boundary
0 20 40 60
Graphic Scale in Feet
PCE= 3.7 ug/m3
RISV-2
Grass Area
Parking
Apartment Building
222 Smith Street
LEGEND
Monitoring Well
Soil Vapor Point
Units have basement, basement unit is # 165
Sub-slab Vapor Point
Indoor & Ambient Air
Soil Sample
Storm Drains
** – Duplicate Sample Collected From This Location.
Duplicate Sample Concentration Equals 163 ug/m3
CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803
TITLE: Locations of PCE Detections in Soil Vapor and Sub-Slab Samples 2012 & 2013
DATE: 3/26/2013
SCALE: As Shown
FIGURE: 7
DRAWING NO: 2012-10
Elks Plaza, LLC
157-189 W. Merrick Road
Freeport, New York
DRAWN BY: T.R.B./J.T.C.
APPR. BY: E.A.W.



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17 Dupont Street, Plainview, New York 11803

TITLE: Locations of PCE Detections in Indoor and Outdoor Air Samples 2012 & 2013	DATE: 3/25/2013
	SCALE: As Shown
FIGURE: 8	DRAWN BY: T.R.B./J.T.C.
DRAWING NO: 2012-11	APPR. BY: E.A.W.

Elks Plaza, LLC
157-189 W. Merrick Road
Freeport, New York

CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982

17 Dupont Street, Plainview, New York 11803

TITLE: Locations of PCE Detections in Discreet Groundwater Borings		DATE: 8/23/2013
		SCALE: As Shown
FIGURE: 9	Elks Plaza, LLC 157–189 W. Merrick Rd. Freeport, NY	DRAWN BY: T.R.B./J.T.C.
DRAWING NO: 2013–3		APPR. BY: E.A.W.

H: \Drawings\Elks Plaza\2013–3

TABLES

Table 1
Validated Volatile Organic Compounds in Roof Drain Soil Samples
Elks Plaza
Freeport, NY

Sample ID	Pool #1	Pool XX	Field Blank	Trip Blank	*NYCRR	**NYCRR
Matrix	Soil	Soil	Aqueous	Aqueous	Part 375	Part 375
Date Sampled	8/28/2012	8/28/2012	8/28/2012	8/28/2012	Commercial	Protection of GW
Volatile Organic Compounds						
Units	ug/kg	ug/kg	ug/l	ug/l	ug/kg	ug/l
Acetone	19.1 J	14.9 J	ND	ND	500,000	50
Benzene	ND UJ	0.39 J	ND	ND	44,000	60
Bromochloromethane	ND	ND	ND	ND	NS	NS
Bromodichloromethane	ND	ND	ND	ND	NS	NS
Bromoform	ND	ND	ND	ND	NS	NS
Bromomethane	R	R	ND	ND	NS	NS
2-Butanone (MEK)	ND	ND	R	R	NS	NS
Carbon disulfide	ND	ND	ND	ND	NS	NS
Carbon tetrachloride	ND	ND	ND	ND	22,000	760
Chlorobenzene	ND UJ	ND	ND	ND	500,000	1,100
Chloroethane	ND	ND	ND	ND	NS	NS
Chloroform	ND	ND	ND	ND	350,000	370
Chloromethane	ND	ND	ND	ND	NS	NS
Cyclohexane	ND	ND	ND	ND	NS	NS
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	NS	NS
Dibromochloromethane	ND	ND	ND	ND	NS	NS
1,2-Dibromoethane	ND	ND	ND	ND	NS	NS
1,2-Dichlorobenzene	ND UJ	ND UJ	ND	ND	500,000	1,100
1,3-Dichlorobenzene	ND UJ	ND UJ	ND	ND	280,000	2,400
1,4-Dichlorobenzene	ND UJ	ND UJ	ND	ND	130,000	1,800
Dichlorodifluoromethane	ND	ND	ND	ND	NS	NS
1,1-Dichloroethane	ND	ND	ND	ND	240,000	270
1,2-Dichloroethane	ND	ND	ND	ND	30,000	20
1,1-Dichloroethene	ND	ND	ND	ND	500,000	330
cis-1,2-Dichloroethene	32.4 J	14.7 J	ND	ND	500,000	250
trans-1,2-Dichloroethene	2.8 J	1.8 J	ND	ND	500,000	190
1,2-Dichloropropane	ND	ND	ND	ND	NS	NS
cis-1,3-Dichloropropene	ND	ND	ND	ND	NS	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	NS	NS
1,4-Dioxane	ND	ND	ND	ND	130,000	100
Ethylbenzene	ND	ND	ND	ND	390,000	1,000
Freon 113	ND	ND	ND	ND	NS	NS
2-Hexanone	ND	ND	ND	ND	NS	NS
Isopropylbenzene	1.6 J	ND UJ	ND	ND	NS	NS
Methyl Acetate	19.3 J	36.1 J	ND	ND	NS	NS
Methylcyclohexane	ND	ND	ND	ND	NS	NS
Methyl Tert Butyl Ether	ND	ND	ND	ND	500,000	930
4-Methyl-2-pentanone(MIBK)	R	R	ND	ND	NS	NS
Methylene chloride	ND	ND	ND	ND	500,000	50
Styrene	ND UJ	ND	ND	ND	NS	NS
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NS	NS
Tetrachloroethene	21.5	17.0	ND	ND	150,000	1,300
Toluene	24.9 J	12.4 J	ND	ND	500,000	700
1,2,3-Trichlorobenzene	ND UJ	ND UJ	ND	ND	NS	NS
1,2,4-Trichlorobenzene	ND UJ	ND UJ	ND	ND	NS	NS
1,1,1-Trichloroethane	ND	ND	ND	ND	NS	NS
1,1,2-Trichloroethane	ND	ND	ND	ND	NS	NS
Trichloroethene	8.0	7.2	ND	ND	200,000	470
Trichlorofluoromethane	ND	ND	ND	ND	NS	NS
Vinyl chloride	14.9 J	3.3 J	ND	ND	13,000	20
m,p-Xylene	ND UJ	ND	ND	ND	NS	NS
o-Xylene	ND UJ	ND	ND	ND	NS	NS
Xylene (total)	ND UJ	ND	ND	ND	500,000	1,600

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits.
NS- No standard for specific compound
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ug/kg= micrograms per kilogram or parts per billion
ug/L= micrograms per liter or parts per billion
*6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6.8(b): Commercial Use
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6.8(b): Protection of Groundwater
Pool XX is a duplicate of Pool #1

Table 2
Validated Volatile Organic Compounds in Groundwater Samples
Elks Plaza
Freeport, NY

Sample ID Matrix Date Sampled Units	*NYS TOGS Groundwater Standards ug/l	MW-1 Ground Water 11/19/2012 ug/l	MW-2 Ground Water 11/19/2012 ug/l	MW-3 Ground Water 11/19/2012 ug/l	MW-XX Ground Water 11/19/2012 ug/l	PURGE WATER Ground Water 11/19/2012 ug/l	11/19 FIELD Field Blank Water 11/19/2012 ug/l	TRIP BLANK Trip Blank Water 11/19/2012 ug/l
Volatiles (SW846 8260B)								
Acetone	NS	R	R	R	R	R	R	R
Benzene	1	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	NS	R	R	R	R	R	R	R
Carbon disulfide	60	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NS	ND	ND	ND	ND	ND	ND	ND
ibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0006	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	6.7	0.68 J	6.5	0.99 J	ND	ND
rans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND
ans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NS	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Freon 113	5	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	ND	ND	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	10	ND	ND	ND	ND	ND	ND	ND
thyl-2-pentanone(MIBK)	NS	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND
1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	17.5	ND	17.7	2.1	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	9.9	0.41 J	10.2	1.4	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	5	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	5	0.32 J	ND	ND	ND	ND	ND	ND

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits.
NS- No standard for specific compound
**NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient water Quality Standards and Guidance Values and Groundwater Effluent Limitations June 1998*

- Value Exceeds Standard - Monitoring Required
MW-XX is a duplicate of MW-2
ug/l= micrograms per liter or parts per billion
R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 3
Volatile Organic Compounds in Exterior Soil Vapor and Ambient Air Samples
Elks Plaza
Freeport, NY

Sample ID Matrix Date Sampled	RISV-1 Soil Vapor 8/29/2012	RISV-2 Soil Vapor 8/31/2012	SV-X Soil Vapor 8/29/2012	*NYSDOH 2006 Matrix1/Matrix 2 Sub-Slab Vapor	AA-1 Ambient Air 8/29/2012	*NYSDOH 2006 Matrix1/Matrix 2 Indoor Air
Volatile Organic Compounds						
Units	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Acetone	ND	136	129	NS	14	NS
1,3-Butadiene	ND	ND	ND	NS	ND	NS
Benzene	121	8.3	176	NS	0.93	NS
Bromodichloromethane	ND	ND	ND	NS	ND	NS
Bromoform	ND	ND	ND	NS	ND	NS
Bromomethane	ND	ND	ND	NS	ND	NS
Bromoethene	ND	ND	ND	NS	ND	NS
Benzyl Chloride	ND	ND	ND	NS	ND	NS
Carbon disulfide	1.8 J	2.0 J	2.3 J	NS	ND	NS
Chlorobenzene	ND	ND	ND	NS	ND	NS
Chloroethane	ND	ND	ND	NS	ND	NS
Chloroform	4.2	ND	5.4	NS	ND	NS
Chloromethane	ND	1.7	ND	NS	1.2	NS
3-Chloropropene	ND	ND	ND	NS	ND	NS
2-Chlortoluene	ND	ND	ND	NS	ND	NS
Carbon tetrachloride	ND	ND	ND	< 5	ND	< 0.25
Cyclohexane	48.9	3.2	ND	NS	ND	NS
1,1-Dichloroethane	ND	ND	ND	NS	ND	NS
1,1-Dichloroethylene	ND	ND	ND	< 100	ND	< 3
1,2-Dibromoethane	ND	ND	ND	NS	ND	NS
1,2-Dichloroethane	ND	ND	ND	NS	ND	NS
1,2-Dichloropropane	ND	ND	ND	NS	ND	NS
1,4-Dioxane	4.0	ND	ND	NS	ND	NS
Dichlorodifluoromethane	3.8 J	2.5 J	2.6 J	NS	2.4	NS
Dibromochloromethane	ND	ND	ND	NS	ND	NS
trans-1,2-Dichloroethylene	ND	ND	ND	NS	ND	NS
cis-1,2-Dichloroethylene	ND	ND	ND	<100	ND	< 3
cis-1,3-Dichloropropene	ND	ND	ND	NS	ND	NS
m-Dichlorobenzene	ND	ND	ND	NS	ND	NS
o-Dichlorobenzene	ND	ND	ND	NS	ND	NS
p-Dichlorobenzene	ND	ND	ND	NS	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	NS	ND	NS
Ethanol	101	19	95.3	NS	13	NS
Ethylbenzene	10	15	11	NS	ND	NS
Ethyl acetate	190	54.0	5.4	NS	3.3	NS
4-Ethyltoluene	3.7 J	5.4	3.9	NS	ND	NS
Freon 113	ND	ND	ND	NS	ND	NS
Freon 114	ND	ND	ND	NS	ND	NS
Heptane	3.8	9.4	3.7	NS	ND	NS
Hexachlorobutadiene	ND	ND	ND	NS	ND	NS
Hexane	11	9.5	4.2	NS	0.49 J	NS
2-Hexanone	ND	ND	ND	NS	ND	NS
Isopropyl Alcohol	13	44.7	9.6	NS	1.4	NS
Methylene chloride	ND	ND	ND	NS	1.7	NS
Methyl ethyl ketone	29	24	34.2	NS	0.86	NS
Methyl Isobutyl Ketone	ND	2.9 J	2.3 J	NS	ND	NS
Methyl Tert Butyl Ether	ND	ND	ND	NS	ND	NS
Methylmethacrylate	ND	ND	ND	NS	ND	NS
Propylene	ND	4.3	ND	NS	ND	NS
Styrene	7.7	2.7 J	2.3 J	NS	ND	NS
1,1,1-Trichloroethane	ND	ND	ND	< 100	ND	< 3
1,1,2,2-Tetrachloroethane	ND	ND	ND	NS	ND	NS
1,1,2-Trichloroethane	ND	ND	ND	NS	ND	NS
1,2,4-Trichlorobenzene	ND	ND	ND	NS	ND	NS
1,2,4-Trimethylbenzene	14	19	15	NS	ND	NS
1,3,5-Trimethylbenzene	3.5 J	5.4	3.9	NS	ND	NS
2,2,4-Trimethylpentane	1,740 a	8.4	2.1 J	NS	0.44 J	NS
Tertiary Butyl Alcohol	10	667 a	8.2	NS	ND	NS
Tetrachloroethylene	16 J	3.7	26 J	< 100	ND UJ	< 3
Tetrahydrofuran	36.3	23	39.5	NS	ND	NS
Toluene	62.9	73.9	60.7	NS	1.0	NS
Trichloroethylene	ND	ND	ND	< 5	ND	< 0.25
Trichlorofluoromethane	2.2 J	ND	2.2 J	NS	2.0	NS
Vinyl chloride	ND	ND	ND	< 5	ND	< 0.25
Vinyl Acetate	ND	ND	ND	NS	ND	NS
m,p-Xylene	34 J	51.7	39 J	NS	0.74 J	NS
o-Xylene	11 J	19	13 J	NS	ND UJ	NS
Xylenes (total)	45.2 J	70.4	51.3 J	NS	0.74 J	NS

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits.
NS- No standard for specific compound
a - Results from Run #2
ug/m^3 - micrograms per cubic meters

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
*NYSDOH guidence for evaluating Soil Vapor in the State of New York
Oct. 2006 Matrix 1 & 2 levels for "No Further Action"

SV-X is a duplicate of RISV-1

Table 4
Validated Volatile Organic Compounds in Sub-Slab Vapor and Indoor Air Samples 2012
Elks Plaza
Freeport, NY

Sample ID	B-12	G-5	Basement	*NYSDOH 2006	B-12	G-5	Basement	*NYSDOH 2006
Matrix	Indoor Air	Indoor Air	Indoor Air	Matrix1/Matrix 2	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Matrix1/Matrix 2
Date Sampled	8/29/2012	8/29/2012	8/29/2012	Indoor Air	8/29/2012	8/29/2012	8/29/2012	Sub-Slab Vapor
Volatile Organic Compounds								
Units	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Acetone	26.6	16	15	NS	ND	26.6	12	NS
1,3-Butadiene	ND	ND	ND	NS	ND	ND	ND	NS
Benzene	0.45 J	0.51 J	0.45 J	NS	5.1	2.0 J	3.1	NS
Bromodichloromethane	ND	ND	ND	NS	ND	ND	ND	NS
Bromoform	ND	ND	ND	NS	ND	ND	ND	NS
Bromomethane	ND	ND	ND	NS	ND	ND	ND	NS
Bromoethene	ND	ND	ND	NS	ND	ND	ND	NS
Benzyl Chloride	ND	ND	ND	NS	ND	ND	ND	NS
Carbon disulfide	ND	ND	ND	NS	ND	1.5 J	ND	NS
Chlorobenzene	ND	ND	ND	NS	ND	ND	ND	NS
Chloroethane	ND	ND	ND	NS	ND	ND	ND	NS
Chloroform	ND	ND	ND	NS	ND	ND	ND	NS
Chloromethane	1.2	1.2	1.3	NS	ND	ND	ND	NS
3-Chloropropene	ND	ND	ND	NS	ND	ND	ND	NS
2-Chlortoluene	ND	ND	ND	NS	ND	ND	ND	NS
Carbon tetrachloride	ND	ND	ND	< 0.25	ND	ND	ND	< 5
Cyclohexane	ND	ND	ND	NS	141	ND	ND	NS
1,1-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	NS
1,1-Dichloroethylene	ND	ND	ND	< 3	ND	ND	ND	< 100
1,2-Dibromoethane	ND	ND	ND	NS	ND	ND	ND	NS
1,2-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	NS
1,2-Dichloropropane	ND	ND	ND	NS	ND	ND	ND	NS
1,4-Dioxane	ND	ND	ND	NS	ND	ND	ND	NS
Dichlorodifluoromethane	2.5	2.6	2.6	NS	2.3 J	2.1 J	2.4 J	NS
Dibromochloromethane	ND	ND	ND	NS	ND	ND	ND	NS
trans-1,2-Dichloroethylene	ND	ND	ND	NS	ND	ND	ND	NS
cis-1,2-Dichloroethylene	ND	ND	ND	< 3	ND	ND	ND	<100
cis-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	NS
m-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	NS
o-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	NS
p-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	NS
Ethanol	46.5	51.8	121 E	NS	8.5	18	25.8	NS
Ethylbenzene	0.61 J	ND	ND	NS	5.2	5.2	7.4	NS
Ethyl acetate	3.1	2.4	1.9	NS	5.4	12	2.7 J	NS
4-Ethyltoluene	2.3	1.2	0.54 J	NS	3.1 J	2.3 J	2.4 J	NS
Freon 113	ND	ND	ND	NS	ND	ND	ND	NS
Freon 114	ND	ND	ND	NS	ND	ND	ND	NS
Heptane	ND	ND	ND	NS	8.2	ND	ND	NS
Hexachlorobutadiene	ND	ND	ND	NS	ND	ND	ND	NS
Hexane	0.46 J	0.46 J	ND	NS	94.5	2.8	1.4 J	NS
2-Hexanone	ND	ND	ND	NS	ND	ND	ND	NS
Isopropyl Alcohol	36.4	23	13	NS	2.9	7.4	2.7	NS
Methylene chloride	ND	ND	4.2	NS	ND	ND	2.9	NS
Methyl ethyl ketone	1.8	1.2	0.91	NS	ND	19	10	NS
Methyl Isobutyl Ketone	ND	ND	ND	NS	ND	1.6 J	ND	NS
Methyl Tert Butyl Ether	ND	ND	ND	NS	ND	ND	ND	NS
Methylmethacrylate	ND	ND	ND	NS	ND	ND	ND	NS
Propylene	ND	ND	ND	NS	ND	ND	ND	NS
Styrene	ND	ND	ND	NS	ND	1.7 J	2.0 J	NS
1,1,1-Trichloroethane	ND	ND	ND	< 3	ND	ND	ND	< 100
1,1,2,2-Tetrachloroethane	ND	ND	ND	NS	ND	ND	ND	NS
1,1,2-Trichloroethane	ND	ND	ND	NS	ND	ND	ND	NS
1,2,4-Trichlorobenzene	ND	ND	ND	NS	ND	ND	ND	NS
1,2,4-Trimethylbenzene	12	6.9	2.6	NS	11	8.8	8.4	NS
1,3,5-Trimethylbenzene	4.9	2.9	0.98	NS	3.3 J	2.8 J	2.4 J	NS
2,2,4-Trimethylpentane	ND	ND	ND	NS	1, 810a	4.5	ND	NS
Tertiary Butyl Alcohol	0.49 J	1.8	ND	NS	ND	ND	ND	NS
Tetrachloroethylene	ND UJ	ND UJ	0.26 J	< 3	3.5 J	ND UJ	142 J	< 100
Tetrahydrofuran	0.86	ND	ND	NS	8.3	8.6	14	NS
Toluene	1.5	1.2	1.4	NS	19	21	31	NS
Trichloroethylene	ND	ND	ND	< 0.25	ND	ND	ND	< 5
Trichlorofluoromethane	1.3	1.5	1.3	NS	ND	ND	4.8	NS
Vinyl chloride	ND	ND	ND	< 0.25	ND	ND	ND	< 5
Vinyl Acetate	ND	ND	ND	NS	ND	ND	ND	NS
m,p-Xylene	1.9 J	0.96 J	1.1 J	NS	19 J	17 J	25 J	NS
o-Xylene	1.3 J	0.56 J	0.52 J	NS	7.4 J	6.9 J	8.3 J	NS
Xylenes (total)	3.2 J	1.6 J	1.7 J	NS	26 J	25 J	33 J	NS

Notes:
J- Analyte detected below quantitation limits.
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
ND- Not detected at or above laboratory detection limits.
*NYSDOH guidence for evaluating Soil Vapor in the State of New York Oct. 2006 Matrix 1 & 2 levels for "No Further Action"
NS- No standard for specific compound
- Value Exceeds Standard - Monitoring Required
a -Result is from run #2
ug/m^3 - micrograms per cubic meters

Table 5
Validated Volatile Organic Compounds in Sub-Slab Vapor, Indoor Air, and Ambient Air Samples 2013
Woodward Childrens Center
Freeport, NY

Sample ID	IAB-12 2/22/13	IAG-5 2/22/13	IABasement 2/22/13	*NYSDOH 2006	SSB-12 2/22/13	SSG-5 2/22/13	SSBasement 2/22/13	SS-XX	*NYSDOH 2006	AA-1 2/22/13
Matrix	Indoor Air	Indoor Air	Indoor Air	Matrix1/Matrix 2	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Matrix1/Matrix 2	Ambient Air
Date Sampled	2/22/2013	2/22/2013	2/22/2013	Indoor Air	2/22/2013	2/22/2013	2/22/2013	2/22/2013	Sub-Slab Vapor	2/22/2013
Volatile Organic Compounds										
Units	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Acetone	19	11	3.6	NS	14	14	17	16	NS	7.6
1,3-Butadiene	ND	ND	ND	NS	2.7	ND	ND	ND	NS	ND
Benzene	1.2	1.2	1.0	NS	13	3.8	4.5	1.9 J	NS	1.8
Bromodichloromethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Bromoform	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Bromomethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Bromoethene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Benzyl Chloride	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Carbon disulfide	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Chlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Chloroethane	ND	1.1	ND	NS	ND	ND	ND	ND	NS	ND
Chloroform	0.73 J	ND	ND	NS	ND	ND	ND	ND	NS	ND
Chloromethane	1.8	ND	0.93	NS	ND	ND	ND	ND	NS	1.5
3-Chloropropene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
2-Chlortoluene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Carbon tetrachloride	ND	ND	ND	< 0.25	ND	ND	ND	ND	< 5	ND
Cyclohexane	ND	ND	ND	NS	ND	4.1	ND	ND	NS	ND
1,1-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,1-Dichloroethylene	ND	ND	ND	< 3	ND	ND	ND	ND	< 100	ND
1,2-Dibromoethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,2-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,2-Dichloropropane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,4-Dioxane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Dichlorodifluoromethane	2.5	2.5	2.5	NS	2.9 J	2.6 J	3.1 J	2.6 J	NS	2.8
Dibromochloromethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
trans-1,2-Dichloroethylene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
cis-1,2-Dichloroethylene	ND	ND	ND	< 3	ND	ND	ND	ND	<100	ND
cis-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
m-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
o-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
p-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
trans-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Ethanol	46.9	64.8	5.8	NS	18	11	26.6	14	NS	55.8
Ethylbenzene	ND	ND	ND	NS	4.3	5.2	6.9	5.2	NS	ND
Ethyl acetate	3.0	4.3	4.0	NS	4.3	2.1 J	6.5	9.7	NS	4.7
4-Ethyltoluene	ND	ND	ND	NS	ND	2.3 J	2.5 J	ND	NS	ND
Freon 113	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Freon 114	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Heptane	0.66 J	0.70 J	ND	NS	4.9	ND	ND	ND	NS	ND
Hexachlorobutadiene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Hexane	0.49 J	0.74	ND	NS	3.9	1.7 J	2.9	ND	NS	0.49 J
2-Hexanone	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Isopropyl Alcohol	22	28.5	1.2	NS	1.8 J	1.6 J	3.2	ND	NS	1.1
Methylene chloride	1.0	1.3	1.4	NS	2.8	ND	18	3.1	NS	0.76
Methyl ethyl ketone	1.5	0.62	ND	NS	4.1	3.5	7.4	4.4	NS	10
Methyl Isobutyl Ketone	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Methyl Tert Butyl Ether	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Methylmethacrylate	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Propylene	ND	ND	ND	NS	13	ND	ND	ND	NS	1.5
Styrene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,1,1-Trichloroethane	ND	ND	ND	< 3	ND	ND	ND	ND	< 100	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,1,2-Trichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,2,4-Trichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,2,4-Trimethylbenzene	1.4	ND	ND	NS	4.0	6.4	9.8	6.4	NS	ND
1,3,5-Trimethylbenzene	0.69 J	ND	ND	NS	ND	1.9 J	2.6 J	2.0 J	NS	ND
2,2,4-Trimethylpentane	0.61 J	0.65 J	ND	NS	ND	ND	ND	ND	NS	0.70 J
Tertiary Butyl Alcohol	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Tetrachloroethylene	0.27	ND	ND	< 3	10	2.2	71.2	163	< 100	ND
Tetrahydrofuran	ND	0.62	ND	NS	4.1	ND	7.4	3.5	NS	ND
Toluene	1.1	1.1	ND	NS	15	14	30	16	NS	0.98
Trichloroethylene	ND	ND	ND	< 0.25	ND	2.0	ND	ND	< 5	ND
Trichlorofluoromethane	1.6	1.5	1.5	NS	ND	ND	3.0 J	ND	NS	1.3
Vinyl chloride	ND	ND	ND	< 0.25	ND	ND	ND	ND	< 5	ND
Vinyl Acetate	2.2	ND	ND	NS	ND	ND	ND	ND	NS	ND
m,p-Xylene	0.65 J	0.56 J	ND	NS	14	19	25	18	NS	0.48 J
o-Xylene	ND	ND	ND	NS	4.3	6.1	7.8	6.5	NS	ND
Xylenes (total)	0.65 J	0.56 J	ND	NS	19	25	33	24	NS	0.48 J

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits. *NYSDOH guidence for evaluating Soil Vapor in the State of New York Oct. 2006 Matrix 1 & 2 levels for "No Further Action"
NS- No standard for specific compound - Value Exceeds Standard - Monitoring Required
SS-XX is a duplicate of SSBasement 2/22/13
ug/m^3 - micrograms per cubic meters

Table 6
Validated Volatile Organic Compounds in Discreet Geoprobe Groundwater Samples
Elks Plaza
Freeport, NY

Sample ID	189 Smith 11-15 ft	189 Smith 26-30 ft	189 Smith 41-45 ft	189 Smith 56-60 ft	209 Smith 11-15 ft	209 Smith 26-30 ft	209 Smith 41-45 ft	209 Smith 56-60 ft	227 Smith 11-15 ft	227 Smith 26-30 ft	227 Smith 41-45 ft	227 Smith 56-60 ft	MW-XX	Field Blank 8/9	TRIP BLANK	*NYS TOGS
Depth																
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Field Blank Water	Trip Blank Water	Groundwater Standards
Date Sampled	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/9/2013	8/9/2013	
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatiles (SW846 8260B)																
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Carbon disulfide	ND	ND	0.21 J	ND	0.27 J	ND	0.22 J	0.20 J	ND	0.23 J	0.24 J	0.22 J	0.22 J	ND	ND	60
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	0.22 J	ND	ND	ND	0.27 J	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0006
1,2-Dichlorobenzene	ND	ND	0.37 J	0.22 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Freon 113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methyl Tert Butyl Ether	ND	ND	0.58 J	0.67 J	ND	ND	0.46 J	0.46 J	ND	ND	0.36 J	0.46 J	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	0.51 J	0.93 J	0.67 J	1.5	ND	**5.6**	**9.8**	ND	ND	1.6	3.1	1.4	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	ND	ND	ND	ND	ND	0.41 J	0.89 J	ND	ND	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits.
NS- No standard for specific compound
Bold and Boxed Indicates Value Exceeds Standard
MW-XX is a duplicate of 209 Smith (11-15')
ug/l= micrograms per liter or parts per billion
**NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient water Quality Standards and Guidance Values and Groundwater Effluent Limitations June 1998*

Table 7
Vapor Monitoring Point Construction Details
Elks Plaza
Freeport, NY

Well ID #	Indoor or Outdoor	Pipe Diameter	Point Depth	Date Installed	Soil Description & Seals/Depths
RISV-1	Outdoor	1/4" Stainless Steel	60 1/4 in.	8/21/2012	Tan fine grained soil with some gravel Backfilled with filter sand from 5'-3' Backfilled with native sand 3'-6" Bentonite and Concrete seal at surface
RISV-2	Outdoor	1/4" Stainless Steel	61 1/4 in.	8/21/2012	Tan fine grained soil with some gravel Backfilled with filter sand from 5'-3' Backfilled with native sand 3'-1' Bentonite and Concrete seal at surface
SSV G-5	Indoor	1/4" Stainless Steel	6.5 in.	8/21/2012	Concrete thickness about 4.5" Filled with sand almost to grade Sealed with Bees Wax
SSV B-12	Indoor	1/4" Stainless Steel	6 in.	8/21/2012	Concrete thickness about 4" Filled with sand almost to grade Sealed with Bees Wax
SSV Basement	Indoor	1/4" Stainless Steel	8 1/4 in.	8/21/2012	Concrete thickness about 3.5" Backfilled with sand almost to grade Bentonite and Concrete seal at surface

Table 8
Pre-Sampling Product Inventories
Woodward Children's Center
Freeport, NY

Location	Sample Date	Inventory
Classroom B-12	August 2012	There were no chemicals stored in this classroom. The floor had been cleaned and waxed one week before sampling
Classroom B-12	February 2013	There were no chemicals stored in this classroom.
Classroom G-5	August 2012	(4) 5-gallon containers of Vectra Floor Finish (3) 1-gallon containers of Rustoleum Paint (1) 5-gallon container of Thin Set Mortar (3) 1-gallon bleach All containers were tightly sealed and no odors were identified in this room.
Classroom G-5	February 2013	(4) 5-gallon containers of Vectra Floor Finish (2) 1-gallon containers of Rustoleum Paint (1) 5-gallon container of Thin Set Mortar (3) 1-gallon bleach All containers were tightly sealed and no odors were identified in this room.
Basement	August 2012	(1) Spray can of WD40 (1) Small plastic bottle of wood glue (1) Spray can of carpet cleaner (1) Spray can of vandalism/graffiti remover
Basement	February 2013	(1) Spray can of WD40 (1) Small plastic bottle of wood glue (1) Spray can of carpet cleaner (3) Spray can of vandalism/graffiti remover

APPENDIX A

Boring Logs and Well Construction Diagrams

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

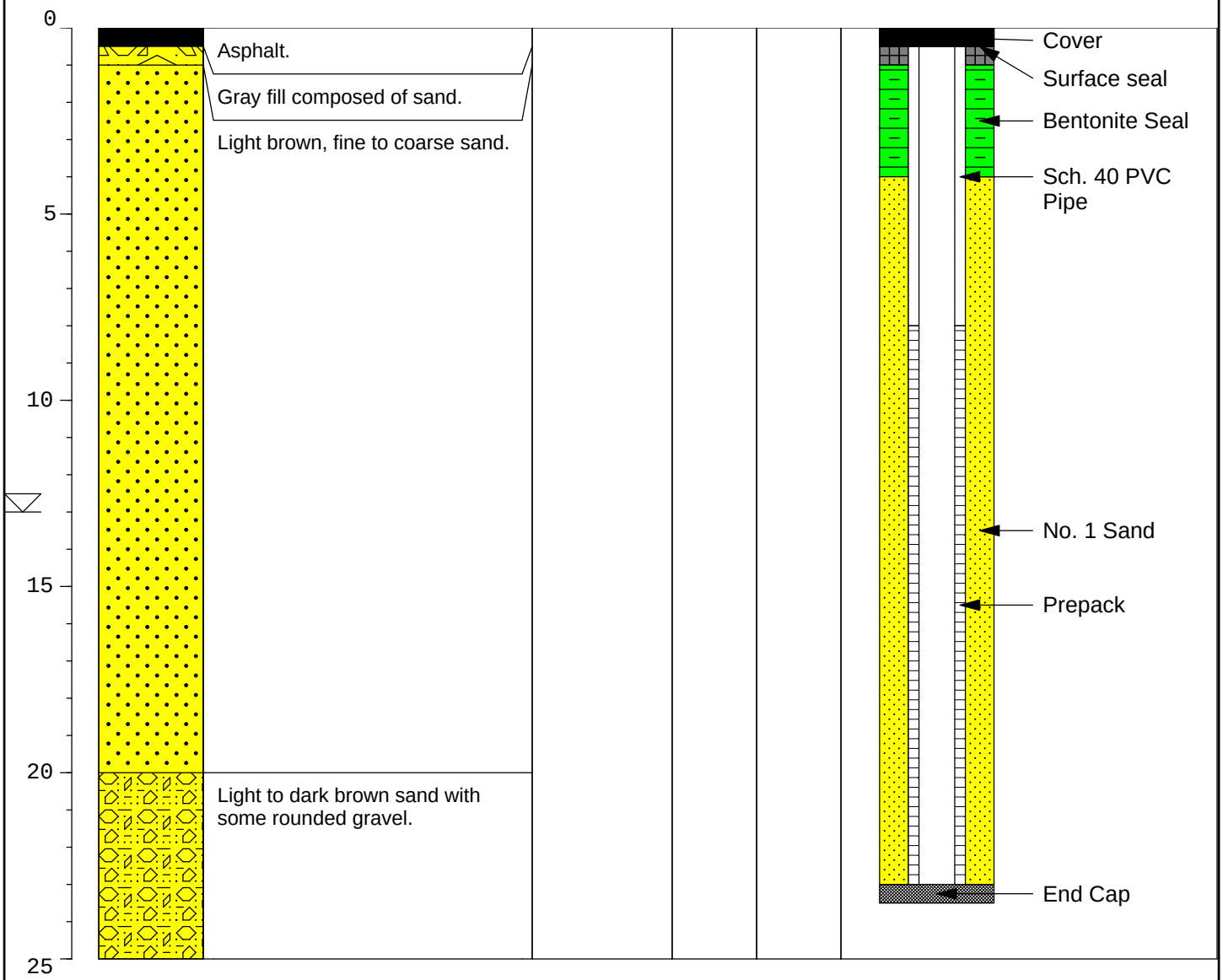
FIELD BORING LOG

BOREHOLE NO.: **MW-1**

TOTAL DEPTH: **25 ft.**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Elks Plaza**	DRILLING CO.:	**Zebra Environmental**
SITE LOCATION:	**Freeport, NY**	DRILLER:	**John & Jose**
JOB NO.:	**Elks Plaza**	RIG TYPE:	**Geoprobe 6610DT**
LOGGED BY:	**Tom Brown**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**NA**
DATES DRILLED:	**11/2/12**	HAMMER WT./DROP	**NA**

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION



NOTES: Soil descriptions assumed from borehole MW-2.

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **MW-2**

TOTAL DEPTH: **25 ft.**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Elks Plaza**	DRILLING CO.:	**Zebra Environmental**
SITE LOCATION:	**Freeport, NY**	DRILLER:	**John & Jose**
JOB NO.:	**Elks Plaza**	RIG TYPE:	**Geoprobe 6610DT**
LOGGED BY:	**Tom Brown**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**Soil Sleeves**
DATES DRILLED:	**11/2/12**	HAMMER WT./DROP	**NA**

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Asphalt.				Cover	
		Gray fill composed of sand.				Surface seal	
		Light brown, fine to coarse sand.	1	Push			
5			2	Push		Sch. 40 PVC Pipe	
						Bentonite Seal	
10			3	Push			
						No. 1 Sand	
15						Prepack	
20		Light to dark brown sand with some rounded gravel.	4	Push			
25						End Cap	

NOTES:

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

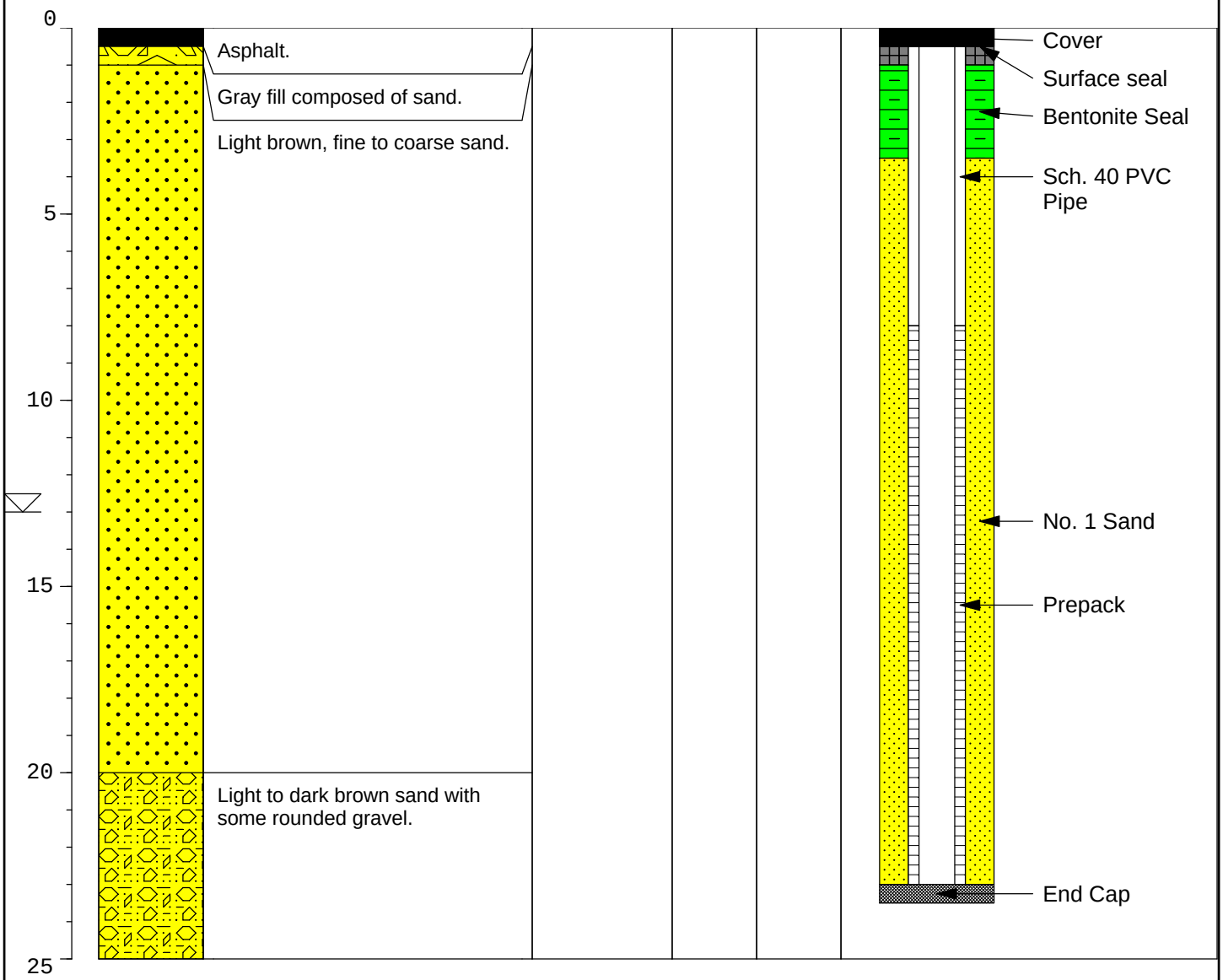
FIELD BORING LOG

BOREHOLE NO.: **MW-3**

TOTAL DEPTH: **25 ft.**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Elks Plaza**	DRILLING CO.:	**Zebra Environmental**
SITE LOCATION:	**Freeport, NY**	DRILLER:	**John & Jose**
JOB NO.:	**Elks Plaza**	RIG TYPE:	**Geoprobe 6610DT**
LOGGED BY:	**Tom Brown**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**NA**
DATES DRILLED:	**11/2/12**	HAMMER WT./DROP	**NA**

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION



NOTES: Soil descriptions assumed from borehole MW-2.

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

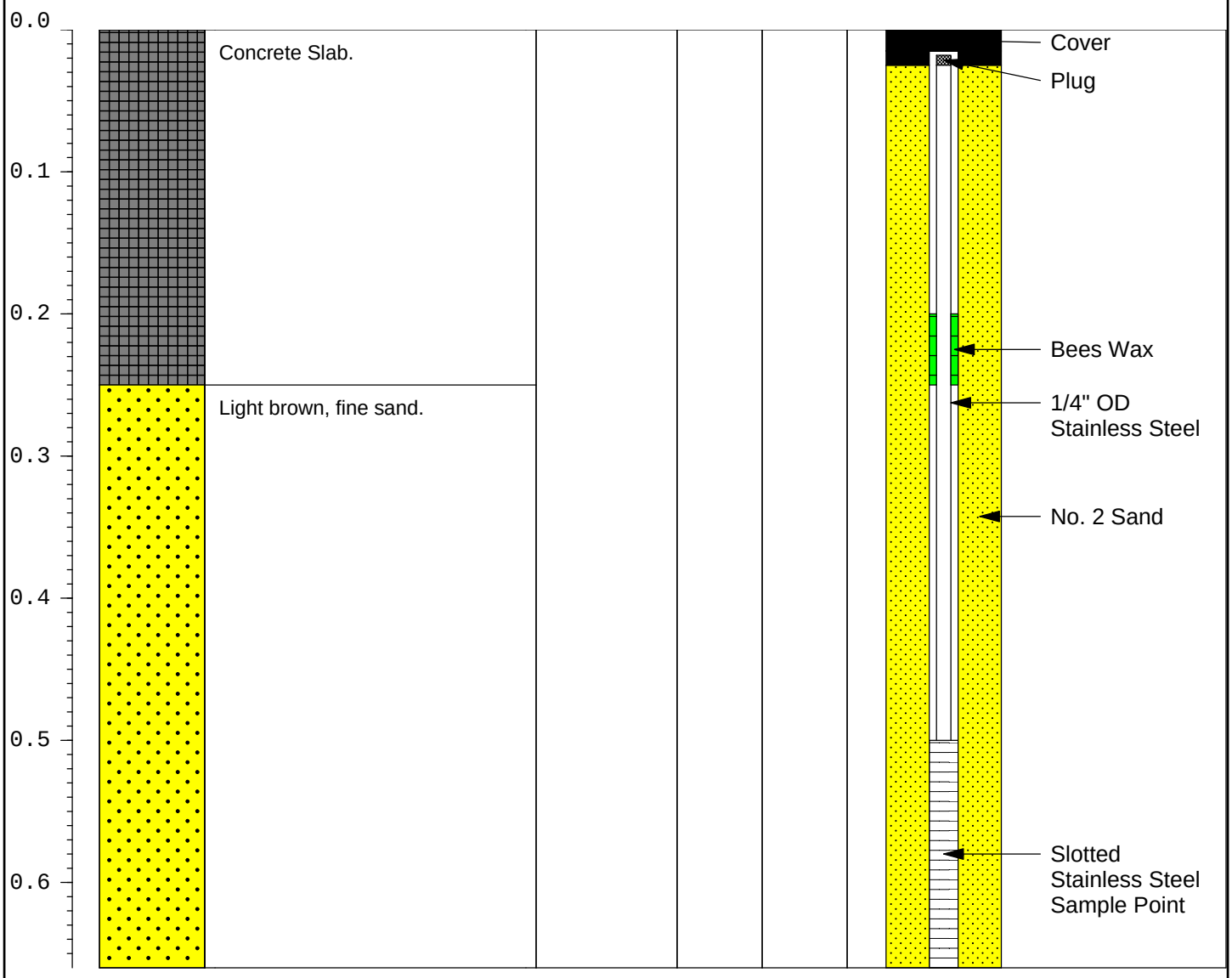
FIELD BORING LOG

BOREHOLE NO.: **SSV Basement**

TOTAL DEPTH: **8 in.**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Elks Plaza**	DRILLING CO.:	**NA**
SITE LOCATION:	**Woodward Childrens Center**	DRILLER:	**Jason & Tom**
JOB NO.:	**Elks Plaza**	RIG TYPE:	**Hammer Drill**
LOGGED BY:	**Tom Brown**	METHOD OF DRILLING:	**NA**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**8 hr. Summa Can**
DATES DRILLED:	**8/21/12**	HAMMER WT./DROP	**NA**

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION



NOTES:

APPENDIX B

DUSR and Laboratory Data

L.A.B. Validation Corp, 14 West Point Drive, East Northport, NY 11731

DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY

ORGANIC ANALYSIS

TARGET COMPOUND LIST (TCL) VOLATILES BY GC/MS

For Soil Samples Collected
August 28, 2012
From West Merrick Road, Freeport, NY
Elks Plaza
Collected by CA Rich Consultants

SAMPLE DELIVERY GROUP NUMBER:
JB15104
BY ACCUTEST LABORATORIES (ELAP #10983)

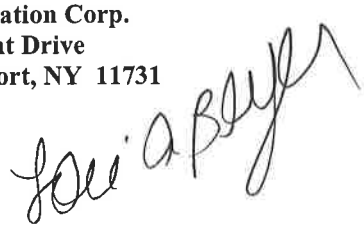
SUBMITTED TO:

Mr. Jason Cooper
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803

October 15, 2012

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731



(516) 523-7891; email LABValidation@aol.com

Elks Plaza, West Merrick Road, Freeport, NY – Soil Samples; August 2012 Sampling Event
Data Usability Summary Report (Data Validation): TCL Volatiles.

Table of Contents:

Introduction
Data Qualifier Definitions
Sample Receipt

1.0 Target Compound List (TCL) Volatile Organics by GC/MS SW846 Method 8260B
- 1.1 Holding Time
- 1.2 System Monitoring Compound (Surrogate) Recovery
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 1.4 Laboratory Control Sample/Blank Spikes
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check (Tuning)
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Field Duplicates
- 1.10 Target Compound List Identification
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

APPENDICES:

A. Data Summary Tables/Form Is with Qualifications
B. Chain of Custody Documents
C. SDG Narrative

Introduction:
A validation was performed on groundwater samples and the associated quality control samples for organic analysis for samples collected under chain of custody documentation by CA Rich Consultants and submitted to Accutest Laboratories for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. The soil samples were collected on August 28, 2012.

The samples were analyzed by Accutest Laboratories, utilizing SW846 Methods and submitted under NYSDEC ASP Category B (2005) equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of the Target Compound/Analyte Lists for Volatile Organics.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic Data Review and EPA Region II SOPs for 8260 and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following samples:

Sample Identification	Laboratory Identification	Sample Matrix	Date Collected	Date Received
Pool #1	JB15104-1	Soil	08/28/12	08/30/12
Pool #1 MSD	JB15104-1D	Soil	08/28/12	08/30/12
Pool #1 MS	JB15104-1S	Soil	08/28/12	08/30/12
Pool XX	JB15104-2	Soil	08/28/12	08/30/12
Trip Blank	JB15104-3	Aqueous	08/28/12	08/30/12
Field Blank	JB15104-4	Aqueous	08/28/12	08/30/12

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

Sample Receipt:
The Chain of Custody documents indicate that the samples were received at Accutest Laboratories via Federal Express on 08/30/12 upon completion of the sampling event. Sample login notes were generated. The cooler temperature for all samples were recorded upon receipt at Accutest Laboratories and determined to be acceptable (<6.0 degrees C). The actual temperature is recorded on the chain of custody document in addition to the case narratives provided in Appendix B and C of this report.

No problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report.

NOTE:
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Target Analyte List (TCL) Volatile Organics by GC/MS SW846 Method 8260B

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of non-detects of 2-Butanone in the Field and Trip Blanks, Pool #1 and Pool XX and also non-detects of 4-Methyl-2-Pentanone in Pool #1 and Pool XX due to low initial and continuing calibration response factors as noted within the following as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "UJ", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to this SDG.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence and were spiked with all components as required by the analytical procedure. Site-specific MS/MSD was performed by the laboratory on sample Pool #1 as required by chain of custody. Additionally, the laboratory performed MS/MSD analysis on Pool XX (blind duplicate of Pool #1).

Several spike recoveries fell outside acceptance limits.

Pool #1 MS/MSD - Low recoveries and as a result, Pool #1 has been qualified "J/UJ" (biased low) for these compounds:

Chlorobenzene – 30% in MSD
1,2-Dichlorobenzene – 16% MS and 13% MSD
1,3-Dichlorobenzene – 16% MS and 14% MSD
1,4-Dichlorobenzene – 16% MS and 14% MSD
Isopropylbenzene – 25% MS and 21% MSD
Toluene – 36% MS
1,2,3-Trichlorobenzene – 8% MS and 7% MSD

1,2,4-Trichlorobenzene – 8% MS and 7% MSD
M,p-Xylene – 27% MSD
o-Xylene – 26% MSD
Xylene (total) – 27% MSD
Styrene – 22% MSD

Methyl Acetate recovered high in the MS (279%) and also in the MSD (286%). The reported concentration in Pool #1 must be considered estimated, biased high, "J."

RPD for Bromoform (23%) fell slightly outside acceptance limits (22%). Based on professional judgment, no qualifications were applied to this analyte.

Pool XX MS/MSD - Low recoveries and as a result, Pool XX has been qualified "J/UJ" (biased low) for these compounds:

1,2-Dichlorobenzene – 18% MS and 17% MSD
1,3-Dichlorobenzene – 19% MS and 17% MSD
1,4-Dichlorobenzene – 19% MS and 18% MSD
1,2,3-Trichlorobenzene – 8% MS and 8% MSD
1,2,4-Trichlorobenzene – 9% MS and 8% MSD

Methyl Acetate recovered high in the MS (232%) and also in the MSD (253%). The reported concentration in Pool XX must be considered estimated, biased high, "J."

****Recovery outliers are a result of confirmed matrix effect.**

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spike recovery values fell within acceptance limits.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but </=10x blank value	Sample Conc. is <CRQL and </=10x blank value	Sample Conc. is >CRQL and >10x blank value
Other Contaminants	Sample Conc. Is >CRQL, but </=5x blank value	Sample Conc. Is <CRQL and </=5x blank value	Sample Conc. is >CRQL and >5x blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

No target analytes were detected in the method blanks associated with sample analysis.

B) **Field Blank Contamination:**

Target analytes were not detected in the Field Blank.

C) **Trip Blank Contamination:**

No target analytes were detected in the Trip Blank associated with sample analysis.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:
The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05), for the initial and continuing calibrations for all reported TCL analytes with the following exceptions:

ICAL 06/20/12; Instrument GCMS3B; 2-Butanone; 0.048. Non-detects in the Field and Trip Blank have been rejected, "R."

ICAL 08/30/12; Instrument GCMSI; Acetone; 0.019, 4-Methyl-2-Pentanone; 0.046, Methyl Acetate; 0.029. Non-detects for 4-Methyl-2-Pentanone have been rejected, "R" in Pool #1 and Pool XX. Acetone and Methyl Acetate detections have been qualified, "J."

CCAL 08/31/12; Instrument GCMSI; Acetone 0.021. This compound was previously qualified as estimated, "J" in Pool #1 due to ICAL response. 2-Butanone; 0.025. Non-detects in Pool #1 have been rejected, "R."

CCAL 09/01/12; Instrument GCMSI; Acetone – 0.020. This compound was previously qualified as estimated, "J" in Pool XX due to ICAL response. 2-Butanone; 0.022. Non-detects in Pool XX have been rejected, "R."

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (25%) for all reported compounds.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Tert Butyl Alcohol-D9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with these SDGs.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples.

Soil sample Pool #1 was collected in duplicate, a summary of positive detections (ug/kg) is summarized below:

	Pool #1	Pool XX
Acetone	*19.1*	14.9
Benzene	ND	*0.39*
Cis-1,2-Dichloroethene	*32.4*	14.7
Trans-1,2-Dichloroethene	*2.8*	1.8
Isopropylbenzene	*1.6*	ND
Methyl Acetate	19.3	*36.1*
Tetrachloroethene	*21.5*	17.0
Toluene	*24.9*	12.4
Trichloroethene	*8.0*	7.2
Vinyl Chloride	*14.9*	3.3

Benzene, cis-1,2-Dichloroethene, Isopropylbenzene, Toluene and Vinyl Chloride must be considered estimated. Non-homogeneity is not uncommon for soil matrices. Additionally, since MS/MSD analysis was conducted on each sample (Pool #1 and Pool XX) and several analytes exhibited recovery problems this can be attributed to sample matrix interferences/effects.

Methyl Acetate and Acetone were previously qualified.

It is also recommended that the end user utilize the highest concentration obtained. These values are in italics above.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846, response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Soil samples were analyzed undiluted.

1.11 Overall System Performance

Good resolution and chromatographic performance were observed. Raw data was reviewed and confirmed that no carryover exists for any analysis conducted with this data set.

Tentatively Identified Compounds (TICs) were not generated and therefore not evaluated.

Reviewer's Signature Lou A. Bellis **Date** 10/15/12

L.A.B. Validation Corp, 14 West Point Drive, East Northport, NY 11731

Appendix A
Data Summary Tables
With Qualifications

(516) 523-7891; email LABValidation@aol.com

C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Project ID: GALAXY/ELKS PLAZA/SSD
Accutest Job #: JB15104

Sample ID Matrix Date Sampled Units	NYSDEC TAGM GW Criteria	NYSDEC TAGM Allowable Soil Concentrations	MYSDEC TAGM Soil Cleanup to protect GW	FIELD BLANK 8/28/12 Field Blank Soil 8/28/2012 ug/l		TRIP BLANK Trip Blank Soil 8/28/2012 ug/l	
GC/MS Volatiles (SW846 8260B)							
Acetone	50	NS	NS	ND		ND	
Benzene	1	NS	NS	ND		ND	
Bromochloromethane	NS	NS	NS	ND		ND	
Bromodichloromethane	NS	NS	NS	ND		ND	
Bromoform	NS	NS	NS	ND		ND	
Bromomethane	NS	NS	NS	ND		ND	
2-Butanone (MEK)	50	NS	NS	ND	R	ND	R
Carbon disulfide	50	NS	NS	ND		ND	
Carbon tetrachloride	5	NS	NS	ND		ND	
Chlorobenzene	5	NS	NS	ND		ND	
Chloroethane	50	NS	NS	ND		ND	
Chloroform	7	NS	NS	ND		ND	
Chloromethane	NS	NS	NS	ND		ND	
Cyclohexane	NS	NS	NS	ND		ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	ND		ND	
Dibromochloromethane	50	NS	NS	ND		ND	
1,2-Dibromoethane	NS	NS	NS	ND		ND	
1,2-Dichlorobenzene	4.7	NS	NS	ND		ND	
1,3-Dichlorobenzene	5	NS	NS	ND		ND	
1,4-Dichlorobenzene	5	NS	NS	ND		ND	
Dichlorodifluoromethane	NS	NS	NS	ND		ND	
1,1-Dichloroethane	5	NS	NS	ND		ND	
1,2-Dichloroethane	5	NS	NS	ND		ND	
1,1-Dichloroethene	5	NS	NS	ND		ND	
cis-1,2-Dichloroethene	NS	NS	NS	ND		ND	
trans-1,2-Dichloroethene	5	NS	NS	ND		ND	
1,2-Dichloropropane	NS	NS	NS	ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	ND		ND	
1,4-Dioxane	NS	NS	NS	ND		ND	
Ethylbenzene	5	NS	NS	ND		ND	
Freon 113	5	NS	NS	ND		ND	
2-Hexanone	NS	NS	NS	ND		ND	
Isopropylbenzene	NS	NS	NS	ND		ND	
Methyl Acetate	NS	NS	NS	ND		ND	
Methylcyclohexane	NS	NS	NS	ND		ND	
Methyl Tert Butyl Ether	NS	NS	NS	ND		ND	
4-Methyl-2-pentanone(MIBK)	50	NS	NS	ND		ND	
Methylene chloride	5	NS	NS	ND		ND	
Styrene	NS	NS	NS	ND		ND	
1,1,2,2-Tetrachloroethane	5	NS	NS	ND		ND	
Tetrachloroethene	5	NS	NS	ND		ND	
Toluene	5	NS	NS	ND		ND	
1,2,3-Trichlorobenzene	NS	NS	NS	ND		ND	
1,2,4-Trichlorobenzene	5	NS	NS	ND		ND	
1,1,1-Trichloroethane	5	NS	NS	ND		ND	
1,1,2-Trichloroethane	NS	NS	NS	ND		ND	
Trichloroethene	5	NS	NS	ND		ND	
Trichlorofluoromethane	NS	NS	NS	ND		ND	
Vinyl chloride	2	NS	NS	ND		ND	
m,p-Xylene	NS	NS	NS	ND		ND	
o-Xylene	NS	NS	NS	ND		ND	
Xylene (total)	5	NS	NS	ND		ND	

C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Project ID: GALAXY/ELKS PLAZA/SSD
Accutest Job #: JB15104

Sample ID Matrix Date Sampled Units	NYSDEC TAGM GW Criteria	NYSDEC TAGM Allowable Soil Concentrations	MYSDEC TAGM Soil Cleanup to protect GW	POOL #1 Soil 8/28/2012 ug/kg		POOL XX Soil 8/28/2012 ug/kg	
GC/MS Volatiles (SW846 8260B)							
Acetone	NS	1.1	110	19.1	J	14.9	J
Benzene	NS	0.6	60	ND	UJ	0.39	J
Bromochloromethane	NS	NS	NS	ND		ND	
Bromodichloromethane	NS	NS	NS	ND		ND	
Bromoform	NS	NS	NS	ND		ND	
Bromomethane	NS	NS	NS	ND		ND	
2-Butanone (MEK)	NS	3	300	ND	R	ND	R
Carbon disulfide	NS	27	2700	ND		ND	
Carbon tetrachloride	NS	6	600	ND		ND	
Chlorobenzene	NS	17	1700	ND	UJ	ND	
Chloroethane	NS	19	1900	ND		ND	
Chloroform	NS	3	300	ND		ND	
Chloromethane	NS	NS	NS	ND		ND	
Cyclohexane	NS	NS	NS	ND		ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	ND		ND	
Dibromochloromethane	NS			ND		ND	
1,2-Dibromoethane	NS	NS	NS	ND		ND	
1,2-Dichlorobenzene	NS	79	7900	ND	UJ	ND	UJ
1,3-Dichlorobenzene	NS	15.5	1550	ND	UJ	ND	UJ
1,4-Dichlorobenzene	NS	85	8500	ND	UJ	ND	UJ
Dichlorodifluoromethane	NS	NS	NS	ND		ND	
1,1-Dichloroethane	NS	2	200	ND		ND	
1,2-Dichloroethane	NS	1	100	ND		ND	
1,1-Dichloroethene	NS	4	400	ND		ND	
cis-1,2-Dichloroethene	NS	NS	NS	32.4	J	14.7	J
trans-1,2-Dichloroethene	NS	3	300	2.8	J	1.8	J
1,2-Dichloropropane	NS	NS	NS	ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	ND		ND	
1,4-Dioxane	NS	NS	NS	ND		ND	
Ethylbenzene	NS	55	5500	ND		ND	
Freon 113	NS	60	6000	ND		ND	
2-Hexanone	NS	NS	NS	ND		ND	
Isopropylbenzene	NS	NS	NS	1.6	J	ND	UJ
Methyl Acetate	NS	NS	NS	19.3	J	36.1	J
Methylcyclohexane	NS	NS	NS	ND		ND	
Methyl Tert Butyl Ether	NS	NS	NS	ND		ND	
4-Methyl-2-pentanone(MIBK)	NS	10	1000	ND	R	ND	R
Methylene chloride	NS	1	100	ND		ND	
Styrene	NS	NS	NS	ND	UJ	ND	
1,1,2,2-Tetrachloroethane	NS	6	600	ND		ND	
Tetrachloroethene	NS	14	1400	21.5		17.0	
Toluene	NS	15	1500	24.9	J	12.4	J
1,2,3-Trichlorobenzene	NS	NS	NS	ND	UJ	ND	UJ
1,2,4-Trichlorobenzene	NS	34	3400	ND	UJ	ND	UJ
1,1,1-Trichloroethane	NS	7.6	760	ND		ND	
1,1,2-Trichloroethane	NS	NS	NS	ND		ND	
Trichloroethene	NS	7	700	8.0		7.2	
Trichlorofluoromethane	NS	NS	NS	ND		ND	
Vinyl chloride	NS	1.2	120	14.9	J	3.3	J
m,p-Xylene	NS	NS	NS	ND	UJ	ND	
o-Xylene	NS	NS	NS	ND	UJ	ND	
Xylene (total)	NS	12	1200	ND	UJ	ND	
General Chemistry							
Solids, Percent	NS	NS	NS	73.1		84.5	

Raw Data: I176859.D

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	POOL #1		
Lab Sample ID:	JB15104-1	Date Sampled:	08/28/12
Matrix:	SO - Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	73.1
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176859.D	1	08/31/12	SJM	n/a	n/a	VI7141
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19.1 J	16	2.7	ug/kg	
71-43-2	Benzene	ND UJ	1.6	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	8.0	0.42	ug/kg	
75-27-4	Bromodichloromethane	ND	8.0	0.17	ug/kg	
75-25-2	Bromoform	ND	8.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	8.0	0.43	ug/kg	
78-93-3	2-Butanone (MEK)	ND R	16	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	8.0	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	8.0	0.21	ug/kg	
108-90-7	Chlorobenzene	ND UJ	8.0	0.17	ug/kg	
75-00-3	Chloroethane	ND	8.0	0.36	ug/kg	
67-66-3	Chloroform	ND	8.0	0.13	ug/kg	
74-87-3	Chloromethane	ND	8.0	0.30	ug/kg	
110-82-7	Cyclohexane	ND	8.0	0.20	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	16	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	8.0	0.26	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.6	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND UJ	8.0	0.30	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND UJ	8.0	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND UJ	8.0	0.28	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	8.0	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	8.0	0.22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.6	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	8.0	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	32.4 J	8.0	0.29	ug/kg	
156-60-5	trans-1,2-Dichloroethene	2.8	8.0	0.38	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	8.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	8.0	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	8.0	0.25	ug/kg	
123-91-1	1,4-Dioxane	ND	200	95	ug/kg	
100-41-4	Ethylbenzene	ND	1.6	0.42	ug/kg	
76-13-1	Freon 113	ND	8.0	0.68	ug/kg	

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

10/13/12

Report of Analysis

Client Sample ID:	POOL #1		
Lab Sample ID:	JB15104-1	Date Sampled:	08/28/12
Matrix:	SO - Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	73.1
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	8.0	0.99	ug/kg	
98-82-8	Isopropylbenzene	1.6 J	8.0	0.12	ug/kg	J
79-20-9	Methyl Acetate	19.3 J	8.0	4.1	ug/kg	
108-87-2	Methylcyclohexane	ND	8.0	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.6	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	~~ND~~ R	8.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	8.0	2.0	ug/kg	
100-42-5	Styrene	ND UJ	8.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.0	0.21	ug/kg	
127-18-4	Tetrachloroethene	21.5	8.0	0.27	ug/kg	
108-88-3	Toluene	24.9 J	1.6	0.17	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND UJ	8.0	0.26	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND UJ	8.0	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	8.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	8.0	0.28	ug/kg	
79-01-6	Trichloroethene	8.0	8.0	0.28	ug/kg	
75-69-4	Trichlorofluoromethane	ND	8.0	0.47	ug/kg	
75-01-4	Vinyl chloride	14.9 J	8.0	0.23	ug/kg	
	m,p-Xylene	ND UJ	1.6	0.28	ug/kg	
95-47-6	o-Xylene	ND UJ	1.6	0.22	ug/kg	
1330-20-7	Xylene (total)	ND UJ	1.6	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		70-122%
2037-26-5	Toluene-D8	110%		81-127%
460-00-4	4-Bromofluorobenzene	99%		66-132%

10/13/12

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

Raw Data: I176888.D

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	POOL XX		
Lab Sample ID:	JB15104-2	Date Sampled:	08/28/12
Matrix:	SO - Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	84.5
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176888.D	1	09/01/12	SJM	n/a	n/a	VI7142
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14.9 J	14	2.3	ug/kg	
71-43-2	Benzene	0.39 J	1.4	0.16	ug/kg	J
74-97-5	Bromochloromethane	ND	6.9	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	6.9	0.14	ug/kg	
75-25-2	Bromoform	ND	6.9	0.21	ug/kg	
74-83-9	Bromomethane	ND	6.9	0.38	ug/kg	
78-93-3	2-Butanone (MEK)	~~ND~~ R	14	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.9	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.9	0.15	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.31	ug/kg	
67-66-3	Chloroform	ND	6.9	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.9	0.26	ug/kg	
110-82-7	Cyclohexane	ND	6.9	0.17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.9	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND UJ	6.9	0.26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND UJ	6.9	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND UJ	6.9	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.9	0.31	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.9	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.9	0.35	ug/kg	
156-59-2	cis-1,2-Dichloroethene	14.7 J	6.9	0.25	ug/kg	
156-60-5	trans-1,2-Dichloroethene	1.8	6.9	0.33	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	6.9	0.21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.9	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.9	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	82	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.36	ug/kg	
76-13-1	Freon 113	ND	6.9	0.59	ug/kg	

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

10/13/12

Report of Analysis

Client Sample ID:	POOL XX		
Lab Sample ID:	JB15104-2	Date Sampled:	08/28/12
Matrix:	SO - Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	84.5
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND UJ	6.9	0.86	ug/kg	
98-82-8	Isopropylbenzene	ND UJ	6.9	0.10	ug/kg	
79-20-9	Methyl Acetate	36.1 J	6.9	3.6	ug/kg	
108-87-2	Methylcyclohexane	ND	6.9	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND R	6.9	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.9	1.7	ug/kg	
100-42-5	Styrene	ND	6.9	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	0.18	ug/kg	
127-18-4	Tetrachloroethene	17.0 J	6.9	0.24	ug/kg	
108-88-3	Toluene	12.4 J	1.4	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND UJ	6.9	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND UJ	6.9	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.9	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.9	0.24	ug/kg	
79-01-6	Trichloroethene	7.2	6.9	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND J	6.9	0.41	ug/kg	
75-01-4	Vinyl chloride	3.3 J	6.9	0.20	ug/kg	J
	m,p-Xylene	ND	1.4	0.24	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.19	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		70-122%
2037-26-5	Toluene-D8	110%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

10/13/12

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB15104-3	Date Sampled:	08/28/12
Matrix:	AQ - Trip Blank Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B87179.D	1	09/07/12	TLR	n/a	n/a	V3B4068
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

10/13/12

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB15104-3	Date Sampled:	08/28/12
Matrix:	AQ - Trip Blank Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		81-121%
17060-07-0	1,2-Dichloroethane-D4	87%		74-127%
2037-26-5	Toluene-D8	107%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

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

Raw Data: 3B87180.D

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	FIELD BLANK 8/28/12		
Lab Sample ID:	JB15104-4	Date Sampled:	08/28/12
Matrix:	AQ - Field Blank Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B87180.D	1	09/07/12	TLR	n/a	n/a	V3B4068
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	~~ND~~ R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

10/13/12

Report of Analysis

Client Sample ID:	FIELD BLANK 8/28/12		
Lab Sample ID:	JB15104-4	Date Sampled:	08/28/12
Matrix:	AQ - Field Blank Soil	Date Received:	08/30/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		81-121%
17060-07-0	1,2-Dichloroethane-D4	85%		74-127%
2037-26-5	Toluene-D8	109%		80-122%
460-00-4	4-Bromofluorobenzene	94%		78-116%

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

Appendix B
Chain of Custody Documents

ACCUTEST LABORATORIES

SO FB STR

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.acutest.com

PAGE 1 OF 1

FED-EX Tracking # 8003 2508 3180 | Bottle Order Control #
Accutest Quote # | Accutest Job # JB15104

Client / Reporting Information

Company Name: CA Rich Consultants
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail:
Phone #: 516-576-8844 Fax #:
Sampler(s) Name(s): Jason Cooper Phone #:

Project Information

Project Name: Elks Plaza
Street: W. Merrick Rd
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VOCs 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	MeOH	HNO3	H2SO4	NONE	DI Water	MeOH	ENCORE	LAB USE ONLY
	Pool #1		8/28/12	1150	SC	SO	1					X				
-1	Pool #1 MS		8/28/12	1150	SC	SO	1					X				
	Pool #1 MSD		8/28/12	1150	SC	SO	1					X				198
-2	Pool XX		8/28/12	—	SC	SO	1					X				212
-3	Trip Blank		5/23/12	0800		TB	2									
-4	Field Blank 8/28/12		8/28/12	1450	SC	W FB	2					X				

Turnaround Time (Business days)

- [x] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day RUSH
- [ ] 6 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Labtrk

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

2D

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		8/29/12	FedEx	2 YBO 8/29/12	1030	2
3	Relinquished by Sampler:	Date Time:	Received By:	4 Relinquished By:	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # 846 Intact / Not Intact	Preserved where applicable	On Ice ☒ Cooler Temp. 4.4°C

1A

(2)

JB15104: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15104 **Client:** _____ **Project:** _____

Date / Time Received: 8/30/2012 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (4.4/4.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JB15104: Chain of Custody
Page 2 of 2

Appendix C
SDG Narrative

ACCUTEST LABORATORIES

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants **Job No** JB15104

Site: Elks Plaza, Freeport, NY **Report Date** 9/13/2012 6:00:03 PM

On 08/30/2012, 2 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB15104 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V3B4068

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15337-8MS, JB15337-8MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VI7141

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15104-1MS, JB15104-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Isopropylbenzene, Methyl Acetate, Toluene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene, Isopropylbenzene, m,p-Xylene, Methyl Acetate, o-Xylene, Styrene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for Bromoform are outside control limits for sample JB15104-1MSD. Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** VI7142

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB15104-2MS, JB15104-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Methyl Acetate are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Methyl Acetate are outside control limits. Outside control limits due to matrix interference.

Wet Chemistry By Method ASTM 4643-00

Matrix: SO **Batch ID:** GN71721

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN71838

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey ACCUTEST LABORATORIES

09/24/12

Technical Report for

C. A. Rich Consultants

Elks Plaza, Freeport, NY

GALAXY/ELKS PLAZA/SSD

Accutest Job Number: JB15104

Sampling Date: 08/28/12

Report to:

C. A. Rich Consultants

jcooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **266**

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

Paul Ioannidis
Lab Director

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Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sections: 1 2 3 4 5 6 7 8

Table of Contents

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **6**
Section 4: Sample Results **7**
4.1: JB15104-1: POOL #1 8
4.2: JB15104-2: POOL XX 10
4.3: JB15104-3: TRIP BLANK 12
4.4: JB15104-4: FIELD BLANK 8/28/12 14
Section 5: Misc. Forms **16**
5.1: Chain of Custody 17
5.2: Sample Tracking Chronicle 19
5.3: Internal Chain of Custody 20
Section 6: GC/MS Volatiles - QC Data Summaries **21**
6.1: Method Blank Summary 22
6.2: Blank Spike Summary 28
6.3: Matrix Spike/Matrix Spike Duplicate Summary 34
6.4: Instrument Performance Checks (BFB) 40
6.5: Internal Standard Area Summaries 45
6.6: Surrogate Recovery Summaries 48
6.7: Initial and Continuing Calibration Summaries 50
Section 7: GC/MS Volatiles - Raw Data **78**
7.1: Samples 79
7.2: Method Blanks 96
7.3: Blank Spikes 102
7.4: Matrix Spike/Matrix Spike Duplicates 114
7.5: Instrument Performance Checks (BFB) 138
7.6: Initial and Continuing Calibarations 148
7.7: Instrument Run Logs 255
Section 8: General Chemistry - QC Data Summaries **265**
8.1: Percent Solids Raw Data Summary 266

Sample Summary

C. A. Rich Consultants

Job No: JB15104

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB15104-1	08/28/12	11:50	JC	08/30/12	SO	Soil	POOL #1
JB15104-1D	08/28/12	11:50	JC	08/30/12	SO	Soil Dup/MSD	POOL #1 MSD
JB15104-1S	08/28/12	11:50	JC	08/30/12	SO	Soil Matrix Spike	POOL #1 MS
JB15104-2	08/28/12	00:00	JC	08/30/12	SO	Soil	POOL XX
JB15104-3	08/28/12	14:50	JC	08/30/12	AQ	Trip Blank Soil	TRIP BLANK
JB15104-4	08/28/12	14:50	JC	08/30/12	AQ	Field Blank Soil	FIELD BLANK 8/28/12

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB15104
Site:	Elks Plaza, Freeport, NY	**Report Date**	9/13/2012 6:00:03 PM

On 08/30/2012, 2 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB15104 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V3B4068

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15337-8MS, JB15337-8MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VI7141

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15104-1MS, JB15104-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Isopropylbenzene, Methyl Acetate, Toluene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene, Isopropylbenzene, m,p-Xylene, Methyl Acetate, o-Xylene, Styrene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for Bromoform are outside control limits for sample JB15104-1MSD. Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** VI7142

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB15104-2MS, JB15104-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Methyl Acetate are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Methyl Acetate are outside control limits. Outside control limits due to matrix interference.

Wet Chemistry By Method ASTM 4643-00

Matrix: SO **Batch ID:** GN71721

- The data for ASTM 4643-00 meets quality control requirements.

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN71838

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB15104
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/28/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB15104-1	**POOL #1**					
Acetone		19.1	16	2.7	ug/kg	SW846 8260B
cis-1,2-Dichloroethene		32.4	8.0	0.29	ug/kg	SW846 8260B
trans-1,2-Dichloroethene		2.8 J	8.0	0.38	ug/kg	SW846 8260B
Isopropylbenzene		1.6 J	8.0	0.12	ug/kg	SW846 8260B
Methyl Acetate		19.3	8.0	4.1	ug/kg	SW846 8260B
Tetrachloroethene		21.5	8.0	0.27	ug/kg	SW846 8260B
Toluene		24.9	1.6	0.17	ug/kg	SW846 8260B
Trichloroethene		8.0	8.0	0.28	ug/kg	SW846 8260B
Vinyl chloride		14.9	8.0	0.23	ug/kg	SW846 8260B
JB15104-2	**POOL XX**					
Acetone		14.9	14	2.3	ug/kg	SW846 8260B
Benzene		0.39 J	1.4	0.16	ug/kg	SW846 8260B
cis-1,2-Dichloroethene		14.7	6.9	0.25	ug/kg	SW846 8260B
trans-1,2-Dichloroethene		1.8 J	6.9	0.33	ug/kg	SW846 8260B
Methyl Acetate		36.1	6.9	3.6	ug/kg	SW846 8260B
Tetrachloroethene		17.0	6.9	0.24	ug/kg	SW846 8260B
Toluene		12.4	1.4	0.14	ug/kg	SW846 8260B
Trichloroethene		7.2	6.9	0.24	ug/kg	SW846 8260B
Vinyl chloride		3.3 J	6.9	0.20	ug/kg	SW846 8260B

JB15104-3 **TRIP BLANK**

No hits reported in this sample.

JB15104-4 **FIELD BLANK 8/28/12**

No hits reported in this sample.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	POOL #1		
Lab Sample ID:	JB15104-1	**Date Sampled:**	08/28/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	73.1
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176859.D	1	08/31/12	SJM	n/a	n/a	VI7141
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19.1	16	2.7	ug/kg	
71-43-2	Benzene	ND	1.6	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	8.0	0.42	ug/kg	
75-27-4	Bromodichloromethane	ND	8.0	0.17	ug/kg	
75-25-2	Bromoform	ND	8.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	8.0	0.43	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	8.0	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	8.0	0.21	ug/kg	
108-90-7	Chlorobenzene	ND	8.0	0.17	ug/kg	
75-00-3	Chloroethane	ND	8.0	0.36	ug/kg	
67-66-3	Chloroform	ND	8.0	0.13	ug/kg	
74-87-3	Chloromethane	ND	8.0	0.30	ug/kg	
110-82-7	Cyclohexane	ND	8.0	0.20	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	16	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	8.0	0.26	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.6	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	8.0	0.30	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	8.0	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	8.0	0.28	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	8.0	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	8.0	0.22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.6	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	8.0	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	32.4	8.0	0.29	ug/kg	
156-60-5	trans-1,2-Dichloroethene	2.8	8.0	0.38	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	8.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	8.0	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	8.0	0.25	ug/kg	
123-91-1	1,4-Dioxane	ND	200	95	ug/kg	
100-41-4	Ethylbenzene	ND	1.6	0.42	ug/kg	
76-13-1	Freon 113	ND	8.0	0.68	ug/kg	

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

Report of Analysis

Client Sample ID:	POOL #1		
Lab Sample ID:	JB15104-1	**Date Sampled:**	08/28/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	73.1
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	8.0	0.99	ug/kg	
98-82-8	Isopropylbenzene	1.6	8.0	0.12	ug/kg	J
79-20-9	Methyl Acetate	19.3	8.0	4.1	ug/kg	
108-87-2	Methylcyclohexane	ND	8.0	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.6	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	8.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	8.0	2.0	ug/kg	
100-42-5	Styrene	ND	8.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.0	0.21	ug/kg	
127-18-4	Tetrachloroethene	21.5	8.0	0.27	ug/kg	
108-88-3	Toluene	24.9	1.6	0.17	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	8.0	0.26	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8.0	0.22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	8.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	8.0	0.28	ug/kg	
79-01-6	Trichloroethene	8.0	8.0	0.28	ug/kg	
75-69-4	Trichlorofluoromethane	ND	8.0	0.47	ug/kg	
75-01-4	Vinyl chloride	14.9	8.0	0.23	ug/kg	
	m,p-Xylene	ND	1.6	0.28	ug/kg	
95-47-6	o-Xylene	ND	1.6	0.22	ug/kg	
1330-20-7	Xylene (total)	ND	1.6	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		70-122%
2037-26-5	Toluene-D8	110%		81-127%
460-00-4	4-Bromofluorobenzene	99%		66-132%

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

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	POOL XX		
Lab Sample ID:	JB15104-2	**Date Sampled:**	08/28/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	84.5
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176888.D	1	09/01/12	SJM	n/a	n/a	VI7142
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14.9	14	2.3	ug/kg	
71-43-2	Benzene	0.39	1.4	0.16	ug/kg	J
74-97-5	Bromochloromethane	ND	6.9	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	6.9	0.14	ug/kg	
75-25-2	Bromoform	ND	6.9	0.21	ug/kg	
74-83-9	Bromomethane	ND	6.9	0.38	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.9	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.9	0.15	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.31	ug/kg	
67-66-3	Chloroform	ND	6.9	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.9	0.26	ug/kg	
110-82-7	Cyclohexane	ND	6.9	0.17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.9	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.9	0.26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.9	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.9	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.9	0.31	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.9	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.9	0.35	ug/kg	
156-59-2	cis-1,2-Dichloroethene	14.7	6.9	0.25	ug/kg	
156-60-5	trans-1,2-Dichloroethene	1.8	6.9	0.33	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	6.9	0.21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.9	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.9	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	82	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.36	ug/kg	
76-13-1	Freon 113	ND	6.9	0.59	ug/kg	

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

Report of Analysis

Client Sample ID:	POOL XX		
Lab Sample ID:	JB15104-2	**Date Sampled:**	08/28/12
Matrix:	SO - Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	84.5
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.9	0.86	ug/kg	
98-82-8	Isopropylbenzene	ND	6.9	0.10	ug/kg	
79-20-9	Methyl Acetate	36.1	6.9	3.6	ug/kg	
108-87-2	Methylcyclohexane	ND	6.9	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.9	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.9	1.7	ug/kg	
100-42-5	Styrene	ND	6.9	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	0.18	ug/kg	
127-18-4	Tetrachloroethene	17.0	6.9	0.24	ug/kg	
108-88-3	Toluene	12.4	1.4	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.9	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.9	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.9	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.9	0.24	ug/kg	
79-01-6	Trichloroethene	7.2	6.9	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.9	0.41	ug/kg	
75-01-4	Vinyl chloride	3.3	6.9	0.20	ug/kg	J
	m,p-Xylene	ND	1.4	0.24	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.19	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		70-122%
2037-26-5	Toluene-D8	110%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB15104-3	**Date Sampled:**	08/28/12
Matrix:	AQ - Trip Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B87179.D	1	09/07/12	TLR	n/a	n/a	V3B4068
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB15104-3	**Date Sampled:**	08/28/12
Matrix:	AQ - Trip Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		81-121%
17060-07-0	1,2-Dichloroethane-D4	87%		74-127%
2037-26-5	Toluene-D8	107%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

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

Accutest LabLink@689194 08:01 24-Sep-2012

Report of Analysis

Client Sample ID:	FIELD BLANK 8/28/12		
Lab Sample ID:	JB15104-4	**Date Sampled:**	08/28/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B87180.D	1	09/07/12	TLR	n/a	n/a	V3B4068
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	FIELD BLANK 8/28/12		
Lab Sample ID:	JB15104-4	**Date Sampled:**	08/28/12
Matrix:	AQ - Field Blank Soil	**Date Received:**	08/30/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		81-121%
17060-07-0	1,2-Dichloroethane-D4	85%		74-127%
2037-26-5	Toluene-D8	109%		80-122%
460-00-4	4-Bromofluorobenzene	94%		78-116%

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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.acutest.com

PAGE 1 OF 1

FED-EX Tracking # 8203 2508 3180 | Bottle Order Control #
Accutest Quote # | Accutest Job # JB15104

Client / Reporting Information

Company Name: CA Rich Consultants
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail:
Phone #: 516-576-8844 Fax #:
Sampler(s) Name(s): Jason Cooper Phone #:

Project Information

Project Name: Elks Plaza
Street: W. Merrick Rd
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VOCs 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
	Pool #1		8/28/12	1150	SC	SO	1					X				
-1	Pool #1 MS		8/28/12	1150	SC	SO	1					X				
	Pool #1 MSD		8/28/12	1150	SC	SO	1					X				198
-2	Pool XX		8/28/12	—	SC	SO	1					X				212
-3	Trip Blank		5/23/12	0800		TB	2									
-4	Field Blank 8/28/12		8/28/12	1450	SC	FB	2					X				

Turnaround Time (Business days)

- [X] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Lo

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		8/29/12	FedEx	2 FED EX	8/30/12 1030	2
3			3	4		4
5			5			

Custody Seal # 846 — [X] Intact [ ] Not intact — Preserved where applicable [ ] — On Ice [X] — Cooler Temp. 4.4°C

1A

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15104 **Client:** **Project:**

Date / Time Received: 8/30/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.4/4.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB15104: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

C. A. Rich Consultants

Job No: JB15104

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB15104-1	Collected: 28-AUG-12 11:50 By: JC		Received: 30-AUG-12 By: TH			
POOL #1						
JB15104-1	SW846 8260B	31-AUG-12 19:53	SJM			V8260TCL11
JB15104-1	SM2540 G-97	11-SEP-12 15:45	KP			%SOL
JB15104-2	Collected: 28-AUG-12 00:00 By: JC		Received: 30-AUG-12 By: TH			
POOL XX						
JB15104-2	SW846 8260B	01-SEP-12 13:45	SJM			V8260TCL11
JB15104-2	ASTM 4643-00	08-SEP-12 11:57	RO			%SOL
JB15104-3	Collected: 28-AUG-12 14:50 By: JC		Received: 30-AUG-12 By: TH			
TRIP BLANK						
JB15104-3	SW846 8260B	07-SEP-12 18:22	TLR			V8260TCL11
JB15104-4	Collected: 28-AUG-12 14:50 By: JC		Received: 30-AUG-12 By: TH			
FIELD BLANK 8/28/12						
JB15104-4	SW846 8260B	07-SEP-12 18:52	TLR			V8260TCL11

Accutest Internal Chain of Custody

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Received: 08/30/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB15104-1.2	Secured Storage	Scott McGonigal	08/31/12 12:24	Retrieve from Storage
JB15104-1.2	Scott McGonigal	Secured Storage	08/31/12 15:02	Return to Storage
JB15104-1.2	Secured Storage	Krimesh Patel	09/11/12 11:29	Retrieve from Storage
JB15104-1.2	Krimesh Patel	Secured Storage	09/11/12 18:03	Return to Storage
JB15104-1.2	Secured Storage	Mehmet Temizsu	09/12/12 18:55	Retrieve from Storage
JB15104-1.2	Mehmet Temizsu	Robert OConnor	09/12/12 18:57	Custody Transfer
JB15104-1.2	Robert OConnor	Secured Storage	09/12/12 20:31	Return to Storage
JB15104-2.1	Secured Storage	Scott McGonigal	08/31/12 12:24	Retrieve from Storage
JB15104-2.1	Scott McGonigal	Secured Storage	08/31/12 15:02	Return to Storage
JB15104-2.1	Secured Storage	Mehmet Temizsu	09/08/12 09:36	Retrieve from Storage
JB15104-2.1	Mehmet Temizsu	Robert OConnor	09/08/12 09:37	Custody Transfer
JB15104-2.1	Robert OConnor	Secured Storage	09/08/12 13:54	Return to Storage
JB15104-3.1	Secured Storage	Tara Reddington	09/07/12 13:55	Retrieve from Storage
JB15104-3.1	Tara Reddington	GCMS3B	09/07/12 13:55	Load on Instrument
JB15104-3.1	GCMS3B	Tara Reddington	09/10/12 08:13	Unload from Instrument
JB15104-3.1	Tara Reddington	Secured Storage	09/10/12 08:13	Return to Storage
JB15104-3.2	Secured Storage	Tara Reddington	09/04/12 11:40	Retrieve from Storage
JB15104-3.2	Tara Reddington	GCMS3B	09/04/12 11:40	Load on Instrument
JB15104-3.2	GCMS3B	Tara Reddington	09/05/12 09:31	Unload from Instrument
JB15104-3.2	Tara Reddington	Secured Storage	09/05/12 09:31	Return to Storage
JB15104-4.1	Secured Storage	Tara Reddington	09/04/12 11:40	Retrieve from Storage
JB15104-4.1	Tara Reddington	GCMS3B	09/04/12 11:40	Load on Instrument
JB15104-4.1	GCMS3B	Tara Reddington	09/05/12 09:31	Unload from Instrument
JB15104-4.1	Tara Reddington	Secured Storage	09/05/12 09:31	Return to Storage
JB15104-4.2	Secured Storage	Tara Reddington	09/07/12 13:55	Retrieve from Storage
JB15104-4.2	Tara Reddington	GCMS3B	09/07/12 13:55	Load on Instrument
JB15104-4.2	GCMS3B	Tara Reddington	09/10/12 08:13	Unload from Instrument
JB15104-4.2	Tara Reddington	Secured Storage	09/10/12 08:13	Return to Storage

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7141-MB2	I176853.D	1	08/31/12	SJM	n/a	n/a	VI7141

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

JB15104-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.11	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	ug/kg	
591-78-6	2-Hexanone	ND	5.0	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.17	ug/kg	

Method Blank Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7141-MB2	I176853.D	1	08/31/12	SJM	n/a	n/a	VI7141

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

JB15104-1

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.3	ug/kg	
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	106%	70-122%
2037-26-5	Toluene-D8	106%	81-127%
460-00-4	4-Bromofluorobenzene	95%	66-132%

Method Blank Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7142-MB1	I176885.D	1	09/01/12	SJM	n/a	n/a	VI7142

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

JB15104-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.11	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	ug/kg	
591-78-6	2-Hexanone	ND	5.0	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.17	ug/kg	

Method Blank Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7142-MB1	I176885.D	1	09/01/12	SJM	n/a	n/a	VI7142

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

JB15104-2

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.3	ug/kg	
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	117%	70-122%
2037-26-5	Toluene-D8	107%	81-127%
460-00-4	4-Bromofluorobenzene	97%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.36	200	ug/kg	JN
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3B4068-MB	3B87169.D	1	09/07/12	TLR	n/a	n/a	V3B4068

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

JB15104-3, JB15104-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	

Method Blank Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3B4068-MB	3B87169.D	1	09/07/12	TLR	n/a	n/a	V3B4068

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

JB15104-3, JB15104-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	81-121%
17060-07-0	1,2-Dichloroethane-D4	82%	74-127%
2037-26-5	Toluene-D8	109%	80-122%
460-00-4	4-Bromofluorobenzene	94%	78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7141-BS	I176854.D	1	08/31/12	SJM	n/a	n/a	VI7141

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

JB15104-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	45.7	91	31-168
71-43-2	Benzene	50	51.9	104	76-117
74-97-5	Bromochloromethane	50	51.2	102	79-128
75-27-4	Bromodichloromethane	50	51.8	104	78-128
75-25-2	Bromoform	50	50.3	101	71-138
74-83-9	Bromomethane	50	42.3	85	55-145
78-93-3	2-Butanone (MEK)	50	50.7	101	55-149
75-15-0	Carbon disulfide	50	54.9	110	65-132
56-23-5	Carbon tetrachloride	50	56.7	113	70-140
108-90-7	Chlorobenzene	50	50.7	101	78-120
75-00-3	Chloroethane	50	46.2	92	62-139
67-66-3	Chloroform	50	51.5	103	78-124
74-87-3	Chloromethane	50	51.6	103	50-132
110-82-7	Cyclohexane	50	56.2	112	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	50.9	102	61-132
124-48-1	Dibromochloromethane	50	51.8	104	75-128
106-93-4	1,2-Dibromoethane	50	50.5	101	77-122
95-50-1	1,2-Dichlorobenzene	50	50.2	100	76-119
541-73-1	1,3-Dichlorobenzene	50	49.1	98	75-120
106-46-7	1,4-Dichlorobenzene	50	48.7	97	72-113
75-71-8	Dichlorodifluoromethane	50	55.8	112	41-138
75-34-3	1,1-Dichloroethane	50	54.5	109	75-127
107-06-2	1,2-Dichloroethane	50	51.0	102	68-134
75-35-4	1,1-Dichloroethene	50	57.8	116	73-127
156-59-2	cis-1,2-Dichloroethene	50	48.4	97	77-121
156-60-5	trans-1,2-Dichloroethene	50	49.1	98	76-123
78-87-5	1,2-Dichloropropane	50	52.6	105	75-121
10061-01-5	cis-1,3-Dichloropropene	50	51.6	103	76-122
10061-02-6	trans-1,3-Dichloropropene	50	49.6	99	75-126
123-91-1	1,4-Dioxane	1250	1160	93	59-135
100-41-4	Ethylbenzene	50	52.5	105	74-119
76-13-1	Freon 113	50	52.7	105	62-141
591-78-6	2-Hexanone	50	51.2	102	60-136
98-82-8	Isopropylbenzene	50	50.0	100	71-119
79-20-9	Methyl Acetate	50	49.1	98	50-134
108-87-2	Methylcyclohexane	50	58.9	118	66-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7141-BS	I176854.D	1	08/31/12	SJM	n/a	n/a	VI7141

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

JB15104-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	93.1	93	72-124
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.0	102	68-134
75-09-2	Methylene chloride	50	49.0	98	72-120
100-42-5	Styrene	50	51.0	102	77-121
79-34-5	1,1,2,2-Tetrachloroethane	50	47.9	96	67-117
127-18-4	Tetrachloroethene	50	53.8	108	63-146
108-88-3	Toluene	50	50.5	101	77-121
87-61-6	1,2,3-Trichlorobenzene	50	53.1	106	64-131
120-82-1	1,2,4-Trichlorobenzene	50	53.1	106	65-132
71-55-6	1,1,1-Trichloroethane	50	55.9	112	74-133
79-00-5	1,1,2-Trichloroethane	50	49.6	99	76-124
79-01-6	Trichloroethene	50	54.4	109	79-124
75-69-4	Trichlorofluoromethane	50	50.9	102	61-147
75-01-4	Vinyl chloride	50	54.0	108	57-138
	m,p-Xylene	100	104	104	75-119
95-47-6	o-Xylene	50	51.2	102	77-121
1330-20-7	Xylene (total)	150	155	103	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	104%	70-122%
2037-26-5	Toluene-D8	107%	81-127%
460-00-4	4-Bromofluorobenzene	95%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7142-BS	I176886.D	1	09/01/12	SJM	n/a	n/a	VI7142

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

JB15104-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	44.1	88	31-168
71-43-2	Benzene	50	46.8	94	76-117
74-97-5	Bromochloromethane	50	48.0	96	79-128
75-27-4	Bromodichloromethane	50	47.7	95	78-128
75-25-2	Bromoform	50	47.1	94	71-138
74-83-9	Bromomethane	50	52.9	106	55-145
78-93-3	2-Butanone (MEK)	50	50.5	101	55-149
75-15-0	Carbon disulfide	50	45.7	91	65-132
56-23-5	Carbon tetrachloride	50	47.0	94	70-140
108-90-7	Chlorobenzene	50	44.8	90	78-120
75-00-3	Chloroethane	50	44.4	89	62-139
67-66-3	Chloroform	50	48.8	98	78-124
74-87-3	Chloromethane	50	47.0	94	50-132
110-82-7	Cyclohexane	50	45.6	91	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	49.7	99	61-132
124-48-1	Dibromochloromethane	50	46.9	94	75-128
106-93-4	1,2-Dibromoethane	50	47.9	96	77-122
95-50-1	1,2-Dichlorobenzene	50	45.2	90	76-119
541-73-1	1,3-Dichlorobenzene	50	43.7	87	75-120
106-46-7	1,4-Dichlorobenzene	50	43.0	86	72-113
75-71-8	Dichlorodifluoromethane	50	41.7	83	41-138
75-34-3	1,1-Dichloroethane	50	51.4	103	75-127
107-06-2	1,2-Dichloroethane	50	49.3	99	68-134
75-35-4	1,1-Dichloroethene	50	48.9	98	73-127
156-59-2	cis-1,2-Dichloroethene	50	44.0	88	77-121
156-60-5	trans-1,2-Dichloroethene	50	42.8	86	76-123
78-87-5	1,2-Dichloropropane	50	50.1	100	75-121
10061-01-5	cis-1,3-Dichloropropene	50	45.2	90	76-122
10061-02-6	trans-1,3-Dichloropropene	50	46.7	93	75-126
123-91-1	1,4-Dioxane	1250	1030	82	59-135
100-41-4	Ethylbenzene	50	45.4	91	74-119
76-13-1	Freon 113	50	41.1	82	62-141
591-78-6	2-Hexanone	50	52.4	105	60-136
98-82-8	Isopropylbenzene	50	42.7	85	71-119
79-20-9	Methyl Acetate	50	49.4	99	50-134
108-87-2	Methylcyclohexane	50	47.0	94	66-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7142-BS	I176886.D	1	09/01/12	SJM	n/a	n/a	VI7142

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

JB15104-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	94.5	95	72-124
108-10-1	4-Methyl-2-pentanone(MIBK)	50	54.1	108	68-134
75-09-2	Methylene chloride	50	45.8	92	72-120
100-42-5	Styrene	50	45.1	90	77-121
79-34-5	1,1,2,2-Tetrachloroethane	50	46.2	92	67-117
127-18-4	Tetrachloroethene	50	43.9	88	63-146
108-88-3	Toluene	50	43.6	87	77-121
87-61-6	1,2,3-Trichlorobenzene	50	46.9	94	64-131
120-82-1	1,2,4-Trichlorobenzene	50	47.2	94	65-132
71-55-6	1,1,1-Trichloroethane	50	48.2	96	74-133
79-00-5	1,1,2-Trichloroethane	50	47.7	95	76-124
79-01-6	Trichloroethene	50	47.8	96	79-124
75-69-4	Trichlorofluoromethane	50	37.8	76	61-147
75-01-4	Vinyl chloride	50	36.6	73	57-138
	m,p-Xylene	100	89.9	90	75-119
95-47-6	o-Xylene	50	45.8	92	77-121
1330-20-7	Xylene (total)	150	136	91	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
17060-07-0	1,2-Dichloroethane-D4	109%	70-122%
2037-26-5	Toluene-D8	109%	81-127%
460-00-4	4-Bromofluorobenzene	97%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3B4068-BS	3B87170.D	1	09/07/12	TLR	n/a	n/a	V3B4068

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

JB15104-3, JB15104-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	45.9	92	39-152
71-43-2	Benzene	50	46.9	94	79-116
74-97-5	Bromochloromethane	50	47.6	95	82-123
75-27-4	Bromodichloromethane	50	43.7	87	83-125
75-25-2	Bromoform	50	47.5	95	74-133
74-83-9	Bromomethane	50	53.5	107	63-139
78-93-3	2-Butanone (MEK)	50	49.5	99	63-137
75-15-0	Carbon disulfide	50	52.7	105	67-126
56-23-5	Carbon tetrachloride	50	42.0	84	79-137
108-90-7	Chlorobenzene	50	46.3	93	83-118
75-00-3	Chloroethane	50	50.8	102	66-135
67-66-3	Chloroform	50	44.2	88	82-124
74-87-3	Chloromethane	50	48.2	96	52-136
110-82-7	Cyclohexane	50	49.4	99	73-122
96-12-8	1,2-Dibromo-3-chloropropane	50	44.3	89	66-128
124-48-1	Dibromochloromethane	50	44.6	89	77-127
106-93-4	1,2-Dibromoethane	50	47.9	96	77-125
95-50-1	1,2-Dichlorobenzene	50	47.9	96	81-119
541-73-1	1,3-Dichlorobenzene	50	47.6	95	82-119
106-46-7	1,4-Dichlorobenzene	50	47.2	94	78-118
75-71-8	Dichlorodifluoromethane	50	43.3	87	40-146
75-34-3	1,1-Dichloroethane	50	46.9	94	78-126
107-06-2	1,2-Dichloroethane	50	41.6	83	75-133
75-35-4	1,1-Dichloroethene	50	46.7	93	75-124
156-59-2	cis-1,2-Dichloroethene	50	49.9	100	74-132
156-60-5	trans-1,2-Dichloroethene	50	46.7	93	68-125
78-87-5	1,2-Dichloropropane	50	48.0	96	79-119
10061-01-5	cis-1,3-Dichloropropene	50	45.3	91	80-118
10061-02-6	trans-1,3-Dichloropropene	50	44.4	89	76-124
123-91-1	1,4-Dioxane	1250	1370	110	58-147
100-41-4	Ethylbenzene	50	45.0	90	81-118
76-13-1	Freon 113	50	44.3	89	72-138
591-78-6	2-Hexanone	50	49.7	99	61-130
98-82-8	Isopropylbenzene	50	46.6	93	74-123
79-20-9	Methyl Acetate	50	45.8	92	57-126
108-87-2	Methylcyclohexane	50	45.7	91	73-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3B4068-BS	3B87170.D	1	09/07/12	TLR	n/a	n/a	V3B4068

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

JB15104-3, JB15104-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	88.0	88	77-120
108-10-1	4-Methyl-2-pentanone(MIBK)	50	48.6	97	71-127
75-09-2	Methylene chloride	50	47.4	95	77-120
100-42-5	Styrene	50	46.2	92	81-120
79-34-5	1,1,2,2-Tetrachloroethane	50	47.8	96	71-116
127-18-4	Tetrachloroethene	50	44.9	90	60-159
108-88-3	Toluene	50	46.7	93	82-119
87-61-6	1,2,3-Trichlorobenzene	50	49.9	100	75-129
120-82-1	1,2,4-Trichlorobenzene	50	49.8	100	79-131
71-55-6	1,1,1-Trichloroethane	50	42.8	86	81-131
79-00-5	1,1,2-Trichloroethane	50	50.6	101	81-119
79-01-6	Trichloroethene	50	46.9	94	84-122
75-69-4	Trichlorofluoromethane	50	47.1	94	71-142
75-01-4	Vinyl chloride	50	52.6	105	64-133
	m,p-Xylene	100	89.6	90	81-119
95-47-6	o-Xylene	50	45.9	92	83-120
1330-20-7	Xylene (total)	150	135	90	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	81-121%
17060-07-0	1,2-Dichloroethane-D4	82%	74-127%
2037-26-5	Toluene-D8	108%	80-122%
460-00-4	4-Bromofluorobenzene	97%	78-116%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15104-1MS	I176860.D	1	08/31/12	SJM	n/a	n/a	VI7141
JB15104-1MSD	I176861.D	1	08/31/12	SJM	n/a	n/a	VI7141
JB15104-1	I176859.D	1	08/31/12	SJM	n/a	n/a	VI7141

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

JB15104-1

CAS No.	Compound	JB15104-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	19.1		79.5	72.0	67	82.0	79	13	10-198/35
71-43-2	Benzene	ND		79.5	59.1	74	54.2	68	9	44-130/21
74-97-5	Bromochloromethane	ND		79.5	70.1	88	66.5	84	5	52-136/19
75-27-4	Bromodichloromethane	ND		79.5	54.8	69	47.3	59	15	43-141/20
75-25-2	Bromoform	ND		79.5	35.4	45	28.1	35	23* [a]	34-149/22
74-83-9	Bromomethane	ND		79.5	54.6	69	57.1	72	4	10-159/28
78-93-3	2-Butanone (MEK)	ND		79.5	60.8	76	63.4	80	4	27-174/31
75-15-0	Carbon disulfide	ND		79.5	59.2	74	57.7	73	3	36-140/25
56-23-5	Carbon tetrachloride	ND		79.5	52.4	66	49.6	62	5	33-153/22
108-90-7	Chlorobenzene	ND		79.5	29.5	37	24.2	30* [a]	20	35-137/23
75-00-3	Chloroethane	ND		79.5	59.9	75	62.4	78	4	29-146/27
67-66-3	Chloroform	ND		79.5	62.2	78	57.5	72	8	49-133/21
74-87-3	Chloromethane	ND		79.5	70.8	89	73.7	93	4	36-140/23
110-82-7	Cyclohexane	ND		79.5	38.7	49	37.3	47	4	24-149/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		79.5	31.1	39	26.6	33	16	24-149/26
124-48-1	Dibromochloromethane	ND		79.5	46.2	58	37.9	48	20	40-142/21
106-93-4	1,2-Dibromoethane	ND		79.5	56.0	70	47.3	59	17	41-139/21
95-50-1	1,2-Dichlorobenzene	ND		79.5	12.4	16* [a]	10.6	13* [a]	16	23-141/27
541-73-1	1,3-Dichlorobenzene	ND		79.5	12.5	16* [a]	10.8	14* [a]	15	22-141/27
106-46-7	1,4-Dichlorobenzene	ND		79.5	13.0	16* [a]	11.1	14* [a]	16	21-136/26
75-71-8	Dichlorodifluoromethane	ND		79.5	68.7	86	70.6	89	3	24-162/25
75-34-3	1,1-Dichloroethane	ND		79.5	70.3	88	67.7	85	4	48-132/20
107-06-2	1,2-Dichloroethane	ND		79.5	70.7	89	65.9	83	7	43-139/19
75-35-4	1,1-Dichloroethene	ND		79.5	69.5	87	69.1	87	1	42-139/23
156-59-2	cis-1,2-Dichloroethene	32.4		79.5	69.9	47	73.2	51	5	46-132/21
156-60-5	trans-1,2-Dichloroethene	2.8	J	79.5	60.6	73	58.3	70	4	44-135/22
78-87-5	1,2-Dichloropropane	ND		79.5	61.4	77	54.6	69	12	45-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		79.5	52.2	66	44.6	56	16	43-133/23
10061-02-6	trans-1,3-Dichloropropene	ND		79.5	48.6	61	41.0	52	17	41-138/23
123-91-1	1,4-Dioxane	ND		1990	2660	134	2690	135	1	38-159/35
100-41-4	Ethylbenzene	ND		79.5	28.6	36	24.2	30	17	29-137/25
76-13-1	Freon 113	ND		79.5	47.2	59	46.3	58	2	28-154/28
591-78-6	2-Hexanone	ND		79.5	65.8	83	64.6	81	2	25-161/28
98-82-8	Isopropylbenzene	1.6	J	79.5	21.6	25* [a]	18.6	21* [a]	15	27-138/26
79-20-9	Methyl Acetate	19.3		79.5	241	279* [a]	247	286* [a]	2	26-173/30
108-87-2	Methylcyclohexane	ND		79.5	28.7	36	27.7	35	4	16-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15104-1MS	I176860.D	1	08/31/12	SJM	n/a	n/a	VI7141
JB15104-1MSD	I176861.D	1	08/31/12	SJM	n/a	n/a	VI7141
JB15104-1	I176859.D	1	08/31/12	SJM	n/a	n/a	VI7141

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

JB15104-1

CAS No.	Compound	JB15104-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		79.5	74.5	94	73.6	93	1	51-128/20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		79.5	77.6	98	77.5	97	0	39-143/22
75-09-2	Methylene chloride	ND		79.5	70.4	89	68.6	86	3	50-125/20
100-42-5	Styrene	ND		79.5	22.3	28	17.8	22* [a]	22	27-146/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		79.5	45.8	58	48.0	60	5	36-130/27
127-18-4	Tetrachloroethene	21.5		79.5	60.3	49	57.4	45	5	20-173/26
108-88-3	Toluene	24.9		79.5	53.9	36* [a]	58.3	42	8	40-135/22
87-61-6	1,2,3-Trichlorobenzene	ND		79.5	6.1	8* [a]	5.3	7* [a]	14	10-155/34
120-82-1	1,2,4-Trichlorobenzene	ND		79.5	6.6	8* [a]	5.7	7* [a]	15	10-152/34
71-55-6	1,1,1-Trichloroethane	ND		79.5	58.2	73	55.8	70	4	41-145/22
79-00-5	1,1,2-Trichloroethane	ND		79.5	58.3	73	51.9	65	12	45-137/21
79-01-6	Trichloroethene	8.0		79.5	59.0	64	54.4	58	8	35-149/23
75-69-4	Trichlorofluoromethane	ND		79.5	56.3	71	56.0	70	1	26-164/25
75-01-4	Vinyl chloride	14.9		79.5	71.6	71	75.9	77	6	36-150/23
	m,p-Xylene	ND		159	52.7	33	43.6	27* [a]	19	28-139/26
95-47-6	o-Xylene	ND		79.5	24.9	31	20.9	26* [a]	17	31-139/24
1330-20-7	Xylene (total)	ND		239	77.5	32	64.5	27* [a]	18	28-139/25

CAS No.	Surrogate Recoveries	MS	MSD	JB15104-1	Limits
1868-53-7	Dibromofluoromethane	101%	102%	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	106%	107%	105%	70-122%
2037-26-5	Toluene-D8	110%	111%	110%	81-127%
460-00-4	4-Bromofluorobenzene	100%	103%	99%	66-132%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15104-2MS	I176889.D	1	09/01/12	SJM	n/a	n/a	VI7142
JB15104-2MSD	I176890.D	1	09/01/12	SJM	n/a	n/a	VI7142
JB15104-2	I176888.D	1	09/01/12	SJM	n/a	n/a	VI7142

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

JB15104-2

CAS No.	Compound	JB15104-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	14.9		68.8	56.2	60	62.8	70	11	10-198/35
71-43-2	Benzene	0.39	J	68.8	50.1	72	51.4	74	3	44-130/21
74-97-5	Bromochloromethane	ND		68.8	58.6	85	60.4	88	3	52-136/19
75-27-4	Bromodichloromethane	ND		68.8	45.6	66	45.6	66	0	43-141/20
75-25-2	Bromoform	ND		68.8	30.4	44	27.9	41	9	34-149/22
74-83-9	Bromomethane	ND		68.8	40.4	59	44.0	64	9	10-159/28
78-93-3	2-Butanone (MEK)	ND		68.8	40.6	59	40.8	59	0	27-174/31
75-15-0	Carbon disulfide	ND		68.8	47.0	68	50.9	74	8	36-140/25
56-23-5	Carbon tetrachloride	ND		68.8	42.1	61	42.0	61	0	33-153/22
108-90-7	Chlorobenzene	ND		68.8	26.8	39	26.0	38	3	35-137/23
75-00-3	Chloroethane	ND		68.8	48.5	70	53.8	78	10	29-146/27
67-66-3	Chloroform	ND		68.8	53.5	78	55.0	80	3	49-133/21
74-87-3	Chloromethane	ND		68.8	61.3	89	67.1	98	9	36-140/23
110-82-7	Cyclohexane	ND		68.8	29.5	43	27.3	40	8	24-149/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		68.8	29.0	42	26.6	39	9	24-149/26
124-48-1	Dibromochloromethane	ND		68.8	38.4	56	36.7	53	5	40-142/21
106-93-4	1,2-Dibromoethane	ND		68.8	46.8	68	44.9	65	4	41-139/21
95-50-1	1,2-Dichlorobenzene	ND		68.8	12.7	18* [a]	11.9	17* [a]	7	23-141/27
541-73-1	1,3-Dichlorobenzene	ND		68.8	12.8	19* [a]	12.0	17* [a]	6	22-141/27
106-46-7	1,4-Dichlorobenzene	ND		68.8	13.1	19* [a]	12.4	18* [a]	5	21-136/26
75-71-8	Dichlorodifluoromethane	ND		68.8	60.0	87	64.5	94	7	24-162/25
75-34-3	1,1-Dichloroethane	ND		68.8	61.3	89	64.4	94	5	48-132/20
107-06-2	1,2-Dichloroethane	ND		68.8	60.4	88	61.4	89	2	43-139/19
75-35-4	1,1-Dichloroethene	ND		68.8	60.7	88	64.1	93	5	42-139/23
156-59-2	cis-1,2-Dichloroethene	14.7		68.8	58.0	63	61.2	68	5	46-132/21
156-60-5	trans-1,2-Dichloroethene	1.8	J	68.8	50.2	70	52.0	73	4	44-135/22
78-87-5	1,2-Dichloropropane	ND		68.8	52.7	77	53.9	78	2	45-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		68.8	39.8	58	39.4	57	1	43-133/23
10061-02-6	trans-1,3-Dichloropropene	ND		68.8	37.9	55	36.2	53	5	41-138/23
123-91-1	1,4-Dioxane	ND		1720	2700	157	2620	152	3	38-159/35
100-41-4	Ethylbenzene	ND		68.8	26.1	38	24.8	36	5	29-137/25
76-13-1	Freon 113	ND		68.8	36.8	53	36.2	53	2	28-154/28
591-78-6	2-Hexanone	ND		68.8	42.0	61	43.7	64	4	25-161/28
98-82-8	Isopropylbenzene	ND		68.8	20.1	29	19.0	28	6	27-138/26
79-20-9	Methyl Acetate	36.1		68.8	196	232* [a]	210	253* [a]	7	26-173/30
108-87-2	Methylcyclohexane	ND		68.8	19.4	28	17.4	25	11	16-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15104-2MS	I176889.D	1	09/01/12	SJM	n/a	n/a	VI7142
JB15104-2MSD	I176890.D	1	09/01/12	SJM	n/a	n/a	VI7142
JB15104-2	I176888.D	1	09/01/12	SJM	n/a	n/a	VI7142

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

JB15104-2

CAS No.	Compound	JB15104-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		68.8	65.3	95	67.4	98	3	51-128/20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		68.8	62.8	91	64.2	93	2	39-143/22
75-09-2	Methylene chloride	ND		68.8	60.3	88	63.1	92	5	50-125/20
100-42-5	Styrene	ND		68.8	19.8	29	18.4	27	7	27-146/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		68.8	41.2	60	41.1	60	0	36-130/27
127-18-4	Tetrachloroethene	17.0		68.8	47.8	45	43.3	38	10	20-173/26
108-88-3	Toluene	12.4		68.8	40.8	41	40.8	41	0	40-135/22
87-61-6	1,2,3-Trichlorobenzene	ND		68.8	5.6	8* [a]	5.2	8* [a]	7	10-155/34
120-82-1	1,2,4-Trichlorobenzene	ND		68.8	6.2	9* [a]	5.8	8* [a]	7	10-152/34
71-55-6	1,1,1-Trichloroethane	ND		68.8	49.6	72	50.6	74	2	41-145/22
79-00-5	1,1,2-Trichloroethane	ND		68.8	48.0	70	47.3	69	1	45-137/21
79-01-6	Trichloroethene	7.2		68.8	48.0	59	47.9	59	0	35-149/23
75-69-4	Trichlorofluoromethane	ND		68.8	46.3	67	47.7	69	3	26-164/25
75-01-4	Vinyl chloride	3.3	J	68.8	61.6	85	67.6	93	9	36-150/23
	m,p-Xylene	ND		138	48.2	35	46.0	33	5	28-139/26
95-47-6	o-Xylene	ND		68.8	23.8	35	22.6	33	5	31-139/24
1330-20-7	Xylene (total)	ND		206	72.0	35	68.6	33	5	28-139/25

CAS No.	Surrogate Recoveries	MS	MSD	JB15104-2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	100%	70-130%
17060-07-0	1,2-Dichloroethane-D4	106%	107%	105%	70-122%
2037-26-5	Toluene-D8	110%	111%	110%	81-127%
460-00-4	4-Bromofluorobenzene	100%	102%	104%	66-132%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15337-8MS	3B87174.D	1	09/07/12	TLR	n/a	n/a	V3B4068
JB15337-8MSD	3B87175.D	1	09/07/12	TLR	n/a	n/a	V3B4068
JB15337-8	3B87172.D	1	09/07/12	TLR	n/a	n/a	V3B4068

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

JB15104-3, JB15104-4

CAS No.	Compound	JB15337-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	47.0	94	52.9	106	12	34-156/22
71-43-2	Benzene	ND		50	46.0	92	45.9	92	0	48-138/11
74-97-5	Bromochloromethane	ND		50	48.7	97	47.0	94	4	76-131/10
75-27-4	Bromodichloromethane	ND		50	43.6	87	43.3	87	1	74-130/10
75-25-2	Bromoform	ND		50	49.5	99	49.4	99	0	66-136/12
74-83-9	Bromomethane	ND		50	46.8	94	47.6	95	2	55-146/14
78-93-3	2-Butanone (MEK)	ND		50	49.6	99	48.6	97	2	56-144/15
75-15-0	Carbon disulfide	ND		50	49.2	98	50.0	100	2	44-141/17
56-23-5	Carbon tetrachloride	ND		50	41.1	82	41.4	83	1	58-151/15
108-90-7	Chlorobenzene	ND		50	47.1	94	47.3	95	0	70-128/10
75-00-3	Chloroethane	ND		50	46.4	93	47.1	94	1	54-144/14
67-66-3	Chloroform	ND		50	42.0	84	42.3	85	1	69-132/11
74-87-3	Chloromethane	ND		50	42.9	86	44.0	88	3	45-146/16
110-82-7	Cyclohexane	ND		50	48.5	97	49.4	99	2	46-142/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	46.3	93	46.2	92	0	62-133/13
124-48-1	Dibromochloromethane	ND		50	47.7	95	45.7	91	4	71-132/10
106-93-4	1,2-Dibromoethane	ND		50	50.0	100	49.7	99	1	73-130/10
95-50-1	1,2-Dichlorobenzene	ND		50	49.0	98	49.3	99	1	73-126/10
541-73-1	1,3-Dichlorobenzene	ND		50	48.1	96	48.4	97	1	72-126/10
106-46-7	1,4-Dichlorobenzene	ND		50	48.6	97	48.5	97	0	70-124/10
75-71-8	Dichlorodifluoromethane	ND		50	42.4	85	42.7	85	1	33-161/19
75-34-3	1,1-Dichloroethane	ND		50	45.6	91	44.4	89	3	63-134/12
107-06-2	1,2-Dichloroethane	ND		50	40.9	82	41.1	82	0	68-139/10
75-35-4	1,1-Dichloroethene	ND		50	42.5	85	43.2	86	2	52-142/15
156-59-2	cis-1,2-Dichloroethene	ND		50	49.6	99	49.4	99	0	59-137/11
156-60-5	trans-1,2-Dichloroethene	ND		50	45.2	90	46.6	93	3	60-134/12
78-87-5	1,2-Dichloropropane	ND		50	48.9	98	48.3	97	1	70-126/10
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.8	98	48.6	97	0	74-125/10
10061-02-6	trans-1,3-Dichloropropene	ND		50	44.6	89	43.4	87	3	71-127/11
123-91-1	1,4-Dioxane	ND		1250	1400	112	1360	109	3	56-152/24
100-41-4	Ethylbenzene	ND		50	45.9	92	45.7	91	0	48-139/11
76-13-1	Freon 113	ND		50	43.9	88	44.2	88	1	49-156/18
591-78-6	2-Hexanone	ND		50	54.1	108	55.2	110	2	59-135/15
98-82-8	Isopropylbenzene	0.56	J	50	47.9	95	48.2	95	1	61-135/12
79-20-9	Methyl Acetate	ND		50	48.3	97	47.4	95	2	51-138/16
108-87-2	Methylcyclohexane	ND		50	48.6	97	48.9	98	1	47-145/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15337-8MS	3B87174.D	1	09/07/12	TLR	n/a	n/a	V3B4068
JB15337-8MSD	3B87175.D	1	09/07/12	TLR	n/a	n/a	V3B4068
JB15337-8	3B87172.D	1	09/07/12	TLR	n/a	n/a	V3B4068

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

JB15104-3, JB15104-4

CAS No.	Compound	JB15337-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	1.2		50	44.6	87	44.9	87	1	63-133/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	52.8	106	52.7	105	0	66-134/12
75-09-2	Methylene chloride	ND		50	45.8	92	46.8	94	2	68-129/11
100-42-5	Styrene	ND		50	47.9	96	47.7	95	0	66-132/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	51.3	103	52.8	106	3	69-124/11
127-18-4	Tetrachloroethene	ND		50	46.7	93	47.1	94	1	57-144/13
108-88-3	Toluene	ND		50	47.0	94	47.4	95	1	55-138/11
87-61-6	1,2,3-Trichlorobenzene	ND		50	50.9	102	52.2	104	3	67-133/11
120-82-1	1,2,4-Trichlorobenzene	ND		50	49.8	100	50.4	101	1	68-133/11
71-55-6	1,1,1-Trichloroethane	ND		50	41.8	84	42.5	85	2	61-146/14
79-00-5	1,1,2-Trichloroethane	ND		50	50.4	101	50.5	101	0	75-125/10
79-01-6	Trichloroethene	ND		50	46.8	94	46.2	92	1	59-140/12
75-69-4	Trichlorofluoromethane	ND		50	41.7	83	42.5	85	2	49-158/20
75-01-4	Vinyl chloride	ND		50	47.2	94	47.7	95	1	45-150/16
	m,p-Xylene	ND		100	92.9	93	90.7	91	2	47-141/11
95-47-6	o-Xylene	ND		50	46.6	93	46.1	92	1	58-136/11
1330-20-7	Xylene (total)	ND		150	139	93	137	91	1	51-139/11

CAS No.	Surrogate Recoveries	MS	MSD	JB15337-8	Limits
1868-53-7	Dibromofluoromethane	97%	98%	98%	81-121%
17060-07-0	1,2-Dichloroethane-D4	83%	80%	86%	74-127%
2037-26-5	Toluene-D8	109%	108%	109%	80-122%
460-00-4	4-Bromofluorobenzene	96%	95%	96%	78-116%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-BFB
Lab File ID: 3B84620.D
Instrument ID: GCMS3B
Injection Date: 06/20/12
Injection Time: 11:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8516	19.5		Pass
75	30.0 - 60.0% of mass 95	21045	48.2		Pass
95	Base peak, 100% relative abundance	43650	100.0		Pass
96	5.0 - 9.0% of mass 95	2689	6.16		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	42661	97.7		Pass
175	5.0 - 9.0% of mass 174	3544	8.12	(8.31) [a]	Pass
176	95.0 - 101.0% of mass 174	42181	96.6	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	2854	6.54	(6.77) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3B3949-IC3949	3B84622.D	06/20/12	12:59	01:47	Initial cal 1
V3B3949-IC3949	3B84623.D	06/20/12	13:29	02:17	Initial cal 2
V3B3949-IC3949	3B84624.D	06/20/12	14:00	02:48	Initial cal 5
V3B3949-IC3949	3B84625.D	06/20/12	14:30	03:18	Initial cal 10
V3B3949-IC3949	3B84626.D	06/20/12	15:00	03:48	Initial cal 20
V3B3949-ICC3949	3B84627.D	06/20/12	15:31	04:19	Initial cal 50
V3B3949-IC3949	3B84628.D	06/20/12	16:01	04:49	Initial cal 100
V3B3949-IC3949	3B84629.D	06/20/12	16:31	05:19	Initial cal 200
V3B3949-IC3949	3B84631A.D	06/20/12	18:32	07:20	Initial cal 0.5

Instrument Performance Check (BFB)

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B4068-BFB
Lab File ID: 3B87165.D
Instrument ID: GCMS3B
Injection Date: 09/07/12
Injection Time: 10:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11370	17.2		Pass
75	30.0 - 60.0% of mass 95	32202	48.7		Pass
95	Base peak, 100% relative abundance	66130	100.0		Pass
96	5.0 - 9.0% of mass 95	4457	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	71458	108.1		Pass
175	5.0 - 9.0% of mass 174	5451	8.24	(7.63) [a]	Pass
176	95.0 - 101.0% of mass 174	69672	105.4	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4582	6.93	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3B4068-CC3949	3B87167.D	09/07/12	12:04	01:48	Continuing cal 20
V3B4068-MB	3B87169.D	09/07/12	13:04	02:48	Method Blank
V3B4068-BS	3B87170.D	09/07/12	13:41	03:25	Blank Spike
JB15337-8	3B87172.D	09/07/12	14:50	04:34	(used for QC only; not part of job JB15104)
ZZZZZZ	3B87173.D	09/07/12	15:21	05:05	(unrelated sample)
JB15337-8MS	3B87174.D	09/07/12	15:51	05:35	Matrix Spike
JB15337-8MSD	3B87175.D	09/07/12	16:21	06:05	Matrix Spike Duplicate
ZZZZZZ	3B87177.D	09/07/12	17:21	07:05	(unrelated sample)
ZZZZZZ	3B87178.D	09/07/12	17:52	07:36	(unrelated sample)
JB15104-3	3B87179.D	09/07/12	18:22	08:06	TRIP BLANK
JB15104-4	3B87180.D	09/07/12	18:52	08:36	FIELD BLANK 8/28/12
ZZZZZZ	3B87181.D	09/07/12	19:22	09:06	(unrelated sample)
ZZZZZZ	3B87182.D	09/07/12	19:53	09:37	(unrelated sample)
ZZZZZZ	3B87183.D	09/07/12	20:23	10:07	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7140-BFB
Lab File ID: I176815.D
Instrument ID: GCMSI
Injection Date: 08/30/12
Injection Time: 09:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6500	18.3		Pass
75	30.0 - 60.0% of mass 95	16726	47.1		Pass
95	Base peak, 100% relative abundance	35504	100.0		Pass
96	5.0 - 9.0% of mass 95	2461	6.93		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	30597	86.2		Pass
175	5.0 - 9.0% of mass 174	2267	6.39	(7.41) [a]	Pass
176	95.0 - 101.0% of mass 174	29784	83.9	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2025	5.70	(6.80) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI7140-IC7140	I176816.D	08/30/12	10:45	01:16	Initial cal 10
VI7140-IC7140	I176817.D	08/30/12	11:18	01:49	Initial cal 5
VI7140-IC7140	I176818.D	08/30/12	11:49	02:20	Initial cal 2
VI7140-IC7140	I176819.D	08/30/12	12:19	02:50	Initial cal 1
VI7140-IC7140	I176820.D	08/30/12	12:50	03:21	Initial cal 0.5
VI7140-ICC7140	I176822.D	08/30/12	13:54	04:25	Initial cal 50
VI7140-IC7140	I176823.D	08/30/12	14:28	04:59	Initial cal 100
VI7140-IC7140	I176824.D	08/30/12	14:59	05:30	Initial cal 200
VI7140-IC7140	I176826.D	08/30/12	16:02	06:33	Initial cal 20
VI7140-ICV7140	I176827.D	08/30/12	16:32	07:03	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7141-BFB1
Lab File ID: I176850.D
Instrument ID: GCMSI
Injection Date: 08/31/12
Injection Time: 09:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9315	17.8		Pass
75	30.0 - 60.0% of mass 95	23912	45.7		Pass
95	Base peak, 100% relative abundance	52368	100.0		Pass
96	5.0 - 9.0% of mass 95	3545	6.77		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	44304	84.6		Pass
175	5.0 - 9.0% of mass 174	3312	6.32	(7.48) [a]	Pass
176	95.0 - 101.0% of mass 174	42690	81.5	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2871	5.48	(6.73) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI7141-CC7140	I176851.D	08/31/12	09:50	00:43	Continuing cal 50
VI7141-MB2	I176853.D	08/31/12	16:09	07:02	Method Blank
VI7141-BS	I176854.D	08/31/12	17:23	08:16	Blank Spike
ZZZZZZ	I176856.D	08/31/12	18:27	09:20	(unrelated sample)
ZZZZZZ	I176857.D	08/31/12	18:56	09:49	(unrelated sample)
ZZZZZZ	I176858.D	08/31/12	19:24	10:17	(unrelated sample)
JB15104-1	I176859.D	08/31/12	19:53	10:46	POOL #1
JB15104-1MS	I176860.D	08/31/12	20:22	11:15	Matrix Spike
JB15104-1MSD	I176861.D	08/31/12	20:51	11:44	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7142-BFB1
Lab File ID: I176882.D
Instrument ID: GCMSI
Injection Date: 09/01/12
Injection Time: 08:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8425	18.9		Pass
75	30.0 - 60.0% of mass 95	21037	47.2		Pass
95	Base peak, 100% relative abundance	44597	100.0		Pass
96	5.0 - 9.0% of mass 95	3086	6.92		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	35162	78.8		Pass
175	5.0 - 9.0% of mass 174	2760	6.19	(7.85) [a]	Pass
176	95.0 - 101.0% of mass 174	34013	76.3	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	2311	5.18	(6.79) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI7142-CC7140	I176883.D	09/01/12	09:07	00:47	Continuing cal 50
VI7142-MB1	I176885.D	09/01/12	11:27	03:07	Method Blank
VI7142-BS	I176886.D	09/01/12	12:34	04:14	Blank Spike
JB15104-2	I176888.D	09/01/12	13:45	05:25	POOL XX
JB15104-2MS	I176889.D	09/01/12	14:14	05:54	Matrix Spike
JB15104-2MSD	I176890.D	09/01/12	14:43	06:23	Matrix Spike Duplicate
ZZZZZZ	I176891.D	09/01/12	15:12	06:52	(unrelated sample)
ZZZZZZ	I176892.D	09/01/12	15:41	07:21	(unrelated sample)
ZZZZZZ	I176893.D	09/01/12	16:10	07:50	(unrelated sample)
ZZZZZZ	I176894.D	09/01/12	16:38	08:18	(unrelated sample)
ZZZZZZ	I176895.D	09/01/12	17:07	08:47	(unrelated sample)
ZZZZZZ	I176896.D	09/01/12	17:36	09:16	(unrelated sample)
ZZZZZZ	I176897.D	09/01/12	18:05	09:45	(unrelated sample)
ZZZZZZ	I176898.D	09/01/12	18:34	10:14	(unrelated sample)
ZZZZZZ	I176899.D	09/01/12	19:02	10:42	(unrelated sample)
ZZZZZZ	I176901.D	09/01/12	20:00	11:40	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Check Std:	V3B4068-CC3949	**Injection Date:**	09/07/12
Lab File ID:	3B87167.D	**Injection Time:**	12:04
Instrument ID:	GCMS3B	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	115481	7.92	250210	10.36	318814	11.32	289660	14.66	168397	17.14
Upper Limit [a]	230962	8.42	500420	10.86	637628	11.82	579320	15.16	336794	17.64
Lower Limit [b]	57741	7.42	125105	9.86	159407	10.82	144830	14.16	84199	16.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3B4068-MB	95667	7.92	242377	10.37	295258	11.33	272148	14.66	164593	17.14
V3B4068-BS	98686	7.91	211099	10.36	275531	11.32	260210	14.66	151560	17.14
JB15337-8	102648	7.92	221368	10.37	271547	11.33	251687	14.66	153913	17.14
ZZZZZZ	98670	7.91	201934	10.37	254936	11.33	245539	14.66	152106	17.14
JB15337-8MS	107478	7.92	227661	10.37	292273	11.33	272740	14.66	160266	17.14
JB15337-8MSD	113791	7.92	232376	10.37	298466	11.33	278489	14.66	161191	17.14
ZZZZZZ	91284	7.91	232149	10.36	293832	11.33	266791	14.66	162559	17.14
ZZZZZZ	92958	7.91	224628	10.37	276070	11.32	252700	14.66	154134	17.14
JB15104-3	86864	7.90	210867	10.37	262565	11.33	242318	14.66	146344	17.14
JB15104-4	76242	7.91	204256	10.36	249553	11.33	232245	14.66	141485	17.14
ZZZZZZ	79863	7.91	198272	10.37	242524	11.33	223247	14.66	137472	17.14
ZZZZZZ	74271	7.92	194980	10.37	242464	11.33	222150	14.66	135509	17.14
ZZZZZZ	73888	7.91	191370	10.37	234280	11.33	216421	14.66	132709	17.14

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Check Std: VI7141-CC7140 **Injection Date:** 08/31/12
Lab File ID: I176851.D **Injection Time:** 09:50
Instrument ID: GCMSI **Method:** SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	94081	7.22	274039	9.38	391152	10.30	302130	13.44	141982	15.74
Upper Limit [a]	188162	7.72	548078	9.88	782304	10.80	604260	13.94	283964	16.24
Lower Limit [b]	47041	6.72	137020	8.88	195576	9.80	151065	12.94	70991	15.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI7141-MB2	85048	7.13	247693	9.36	355629	10.28	260133	13.45	131703	15.81
VI7141-BS	89328	7.15	273486	9.36	390595	10.28	285831	13.45	143309	15.81
ZZZZZZ	85514	7.14	255370	9.36	364888	10.28	266776	13.45	134431	15.81
ZZZZZZ	72626	7.14	236008	9.36	339965	10.28	247914	13.45	125146	15.81
ZZZZZZ	68687	7.14	218743	9.36	311778	10.28	228217	13.45	116686	15.81
JB15104-1	57489	7.15	198779	9.36	285479	10.28	202293	13.45	94282	15.81
JB15104-1MS	65894	7.15	223836	9.36	314711	10.29	221589	13.45	103705	15.81
JB15104-1MSD	61819	7.15	210775	9.36	297658	10.28	207489	13.45	92118	15.81

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Check Std: VI7142-CC7140 **Injection Date:** 09/01/12
Lab File ID: I176883.D **Injection Time:** 09:07
Instrument ID: GCMSI **Method:** SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	81278	7.14	283072	9.36	410361	10.28	294375	13.45	145197	15.81
Upper Limit [a]	162556	7.64	566144	9.86	820722	10.78	588750	13.95	290394	16.31
Lower Limit [b]	40639	6.64	141536	8.86	205181	9.78	147188	12.95	72599	15.31

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI7142-MB1	108428	7.14	244210	9.36	352556	10.28	259501	13.45	132592	15.81
VI7142-BS	102462	7.14	272181	9.36	394783	10.28	284945	13.45	143282	15.81
JB15104-2	54129	7.15	222212	9.36	315476	10.28	222186	13.45	100153	15.81
JB15104-2MS	62018	7.15	225436	9.36	321645	10.28	226270	13.45	106310	15.81
JB15104-2MSD	60310	7.15	227552	9.36	321547	10.28	224390	13.45	104591	15.81
ZZZZZZ	69219	7.14	225602	9.36	318526	10.28	232805	13.45	119316	15.81
ZZZZZZ	84549	7.14	252683	9.36	367627	10.28	269270	13.45	136191	15.81
ZZZZZZ	78209	7.14	217693	9.36	315618	10.28	233575	13.45	119659	15.81
ZZZZZZ	72974	7.14	244362	9.36	350201	10.28	254868	13.45	127946	15.81
ZZZZZZ	75164	7.14	257038	9.36	374607	10.28	274811	13.45	134752	15.81
ZZZZZZ	67971	7.14	212675	9.36	309746	10.28	230289	13.45	116660	15.81
ZZZZZZ	79304	7.15	217312	9.36	319378	10.28	222762	13.45	83697	15.81
ZZZZZZ	33393[c]	7.16	220840	9.36	319140	10.28	225087	13.45	102440	15.81
ZZZZZZ	57781	7.15	222230	9.36	322534	10.28	233371	13.45	109779	15.81
ZZZZZZ	65285	7.16	225837	9.36	325611	10.28	235849	13.45	117398	15.81

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to matrix interference.

Volatile Surrogate Recovery Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB15104-3	3B87179.D	98.0	87.0	107.0	95.0
JB15104-4	3B87180.D	97.0	85.0	109.0	94.0
JB15337-8MS	3B87174.D	97.0	83.0	109.0	96.0
JB15337-8MSD	3B87175.D	98.0	80.0	108.0	95.0
V3B4068-BS	3B87170.D	98.0	82.0	108.0	97.0
V3B4068-MB	3B87169.D	97.0	82.0	109.0	94.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	81-121%
S2 = 1,2-Dichloroethane-D4	74-127%
S3 = Toluene-D8	80-122%
S4 = 4-Bromofluorobenzene	78-116%

Volatile Surrogate Recovery Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB15104-1	I176859.D	103.0	105.0	110.0	99.0
JB15104-2	I176888.D	100.0	105.0	110.0	104.0
JB15104-1MS	I176860.D	101.0	106.0	110.0	100.0
JB15104-1MSD	I176861.D	102.0	107.0	111.0	103.0
JB15104-2MS	I176889.D	102.0	106.0	110.0	100.0
JB15104-2MSD	I176890.D	102.0	107.0	111.0	102.0
VI7141-BS	I176854.D	101.0	104.0	107.0	95.0
VI7141-MB2	I176853.D	103.0	106.0	106.0	95.0
VI7142-BS	I176886.D	104.0	109.0	109.0	97.0
VI7142-MB1	I176885.D	105.0	117.0	107.0	97.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = 1,2-Dichloroethane-D4	70-122%
S3 = Toluene-D8	81-127%
S4 = 4-Bromofluorobenzene	66-132%

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICC3949
Lab FileID: 3B84627.D

Response Factor Report MS3B

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Fri Jun 22 13:03:04 2012
Response via : Initial Calibration

Calibration Files
1 =3B84622.D 2 =3B84623.D 100 =3B84628.D 50 =3B84627.D
20 =3B84626.D 200 =3B84629.D 5 =3B84624.D 10 =3B84625.D
0.5 =3b84631a.D =

Compound	1	2	100	50	20	200	5	10	0.5	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------											
2) ethanol										0.000#	-1.00
3) tertiary butyl alcohol											
	1.067	1.058	1.041	0.989	1.134	0.858	1.011			1.022	8.41
4) 1,4-dioxane											
	0.081	0.090	0.076	0.068	0.090	0.055	0.061			0.074	18.68
----- Linear regression ----- Coefficient = 0.9986											
Response Ratio = -0.01526 + 0.09156 *A											
5) I pentafluorobenzene ----------ISTD----------											
6) freon 115										0.000#	-1.00
7) freon 23										0.000#	-1.00
8) freon 143a										0.000#	-1.00
9) freon 152a										0.000#	-1.00
10) chlorotrifluoroethene											
	0.185	0.187	0.158	0.191	0.144	0.147				0.169	12.65
11) chlorodifluoromethane											
	0.315	0.356	0.353	0.340	0.364	0.339	0.318			0.341	5.51
12) dichlorodifluoromethane											
	0.425	0.580	0.591	0.554	0.559	0.527	0.498			0.533	10.71
13) freon 114										0.000#	-1.00
14) freon 142b										0.000#	-1.00
15) chloromethane											
	0.309	0.291	0.442	0.430	0.412	0.460	0.417	0.412		0.396	15.66
----- Linear regression ----- Coefficient = 0.9990											
Response Ratio = -0.00459 + 0.45049 *A											
16) vinyl chloride											
	0.289	0.334	0.441	0.440	0.405	0.453	0.412	0.410		0.398	14.44
17) acetaldehyde										0.000#	-1.00
18) bromomethane											
	0.210	0.249	0.315	0.298	0.300	0.308	0.311	0.305		0.287	13.08
19) chloroethane											
	0.143	0.172	0.215	0.212	0.211	0.220	0.219	0.193		0.198	13.89
20) vinyl bromide											

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICC3949
Lab FileID: 3B84627.D

```
                                                                    0.000#  -1.00
21)  trichlorofluoromethane
                        0.709 0.685 0.669 0.699 0.657 0.602         0.670    5.75
22)  PENTANE
                                                                    0.000#  -1.00
23)  ethyl ether
                   0.169 0.196 0.194 0.182 0.209 0.170 0.182        0.186    7.84
24)  freon 123
                                                                    0.000#  -1.00
25)  freon 141b
                                                                    0.000#  -1.00
26)  freon 123a
                   0.251 0.357 0.360 0.333 0.365 0.307 0.343        0.331   12.15
27)  acrolein
             0.086 0.056       0.078 0.076       0.069 0.070 0.075  0.073   12.82
28)  1,1-dichloroethene
             0.192 0.222 0.314 0.313 0.291 0.331 0.302 0.292        0.282   17.29
              ----- Linear regression -----  Coefficient =  0.9989
                Response Ratio = -0.00352 + 0.32359 *A

29)  acetone
                        0.128 0.146 0.137 0.158 0.125 0.120         0.136   10.41
30)  allyl chloride
                        0.235 0.216 0.189       0.183 0.185         0.201   11.37
31)  acetonitrile
             0.025 0.026 0.030 0.032 0.027 0.033 0.027 0.024        0.028   12.04
32)  iodomethane
             0.538 0.533 0.702 0.703 0.640 0.760 0.632 0.630 0.516  0.628   13.58
33)  iso-butyl alcohol
                        0.012 0.012 0.011 0.012 0.011 0.012         0.012    3.12
34)  carbon disulfide
             0.807 0.894 0.998 1.016 0.916       0.993 0.955 0.779  0.920    9.65
35)  methylene chloride
                   0.324 0.360 0.361 0.344 0.391 0.359 0.340        0.354    5.91
36)  methyl acetate
                        0.072 0.073 0.062 0.078 0.054 0.044         0.064   20.41
              ----- Linear regression -----  Coefficient =  0.9990
                Response Ratio = -0.00638 + 0.07892 *A

37)  methyl tert butyl ether
             0.951 1.030 1.217 1.240 1.173 1.281 1.208 1.204 1.060  1.152    9.64
38)  trans-1,2-dichloroethene
             0.287 0.271 0.341 0.338 0.316 0.352 0.333 0.329 0.252  0.313   11.13
39)  di-isopropyl ether
             0.896 1.009 1.129 1.148 1.062 1.202 1.074 1.051 0.872  1.049   10.47
40)  2-butanone
                        0.051 0.049 0.046 0.057       0.035         0.048   16.47
              ----- Linear regression -----  Coefficient =  0.9977
                Response Ratio = -0.00691 + 0.05750 *A

41)  1,1-dichloroethane
             0.477 0.502 0.636 0.641 0.596 0.689 0.599 0.581 0.513  0.582   12.24
42)  chloroprene
             0.413 0.428 0.547 0.556 0.525 0.569 0.507 0.514        0.507   11.31
43)  acrylonitrile
                        0.153 0.148 0.147 0.163 0.131 0.131         0.146    8.69
44)  vinyl acetate
                        0.069 0.068 0.055 0.075       0.043         0.062   20.78
              ----- Linear regression -----  Coefficient =  0.9992
                Response Ratio = -0.00881 + 0.07657 *A
```

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICC3949
Lab FileID: 3B84627.D

```
45)  ethyl tert-butyl ether
          1.049 1.116 1.275 1.296 1.208 1.344 1.195 1.190 1.021   1.188    9.24
46)  ethyl acetate
                        0.066 0.064 0.059 0.072 0.036 0.042         0.056   25.13
              ----- Linear regression -----  Coefficient =  0.9989
                Response Ratio = -0.00665 + 0.07244 *A

47)  2,2-dichloropropane
          0.520 0.491 0.582 0.610 0.569 0.586 0.591 0.576 0.355   0.542   14.68
48)  cis-1,2-dichloroethene
          0.324 0.320 0.392 0.385 0.347 0.411 0.355 0.362 0.255   0.350   13.31
49)  propionitrile
                        0.063 0.061 0.059 0.065 0.053 0.049         0.058   10.23
50)  methylacrylate
                        0.451 0.453 0.419 0.494 0.380 0.357         0.426   11.90
51)  bromochloromethane
                    0.157 0.219 0.228 0.207 0.235 0.184 0.201       0.204   13.14
52)  tetrahydrofuran
                        0.150 0.144 0.145 0.161 0.156 0.118         0.145   10.44
53)  chloroform
          0.660 0.584 0.703 0.716 0.665 0.735 0.708 0.676 0.639   0.676    6.81
54)  t-butyl formate
                    0.404 0.435 0.456 0.422 0.453 0.408 0.404 0.329 0.414    9.69
55)  dibromofluoromethane (s)
          0.321 0.323 0.390 0.401 0.388 0.422 0.371 0.373 0.295   0.365   11.64
56)  1,2-dichloroethane-d4 (s)
          0.452 0.484 0.529 0.553 0.554 0.551 0.585 0.521         0.529    8.06
57)  freon 113
                    0.225 0.332 0.336 0.318 0.338 0.315 0.292       0.308   12.99
58)  methacrylonitrile
                        0.276 0.270 0.246 0.295 0.218 0.251         0.259   10.37
59)  1,1,1-trichloroethane
          0.511 0.534 0.668 0.685 0.608 0.697 0.579 0.608         0.611   11.23
60)  Cyclohexane
          0.411 0.349 0.467 0.472 0.420 0.495 0.421 0.421 0.343   0.422   12.30
61)  tert amyl alcohol
                        0.055 0.057 0.054 0.061 0.048 0.047         0.054    9.71
62)  iso-octane
          0.912 0.947 1.002 1.019 0.991 0.987 1.001 0.979 0.808   0.961    6.83

63) I   1,4-difluorobenzene   ----------------ISTD--------------------
64)  tert-amyl ethyl ether
                    0.662 0.707 0.733 0.732 0.754 0.732 0.707       0.718    4.14
65)  epichlorohydrin
          0.029 0.037 0.037 0.035 0.033 0.039 0.030 0.030         0.034   11.05
66)  n-butyl alcohol
                        0.009 0.010 0.009 0.010 0.007 0.006         0.009#  18.90
              ----- Linear regression -----  Coefficient =  0.9984
                Response Ratio = -0.03462 + 0.01038 *A

67)  carbon tetrachloride
          0.417 0.406 0.476 0.493 0.470 0.483 0.497 0.458         0.462    7.37
68)  1,1-dichloropropene
          0.348 0.293 0.378 0.383 0.369 0.387 0.370 0.351 0.294   0.353   10.21
69)  hexane
          0.277 0.263 0.318 0.316 0.303 0.310 0.309 0.294 0.220   0.290   11.09
70)  benzene
          0.918 0.863 0.959 0.986 0.928 1.009 0.962 0.955 1.033   0.957    5.31
71)  tert-amyl methyl ether
```

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICC3949
Lab FileID: 3B84627.D

```
          0.892 0.892 0.841 0.881 0.877 0.877 0.904 0.867          0.879    2.18
72)  heptane
                0.146 0.166 0.174 0.164 0.166 0.154 0.157          0.161    5.74
73)  isopropyl acetate
                      0.604 0.614 0.563 0.642 0.420 0.535          0.563   14.16
74)  1,2-dichloroethane
          0.363 0.397 0.458 0.487 0.481 0.460 0.509 0.497 0.365    0.446   12.71
75)  ethyl acrylate
                                                                   0.000#  -1.00
76)  trichloroethene
          0.255 0.234 0.291 0.299 0.274 0.303 0.276 0.276          0.276    8.31
77)  2-nitropropane
                      0.015 0.013 0.010 0.017       0.006          0.012   36.38
           ----- Linear regression -----  Coefficient =  0.9988
             Response Ratio = -0.00320 + 0.01733 *A

78)  2-chloroethyl vinyl ether
          0.152 0.153 0.175 0.177 0.167 0.189 0.157 0.156 0.153    0.164    8.12
79)  methyl methacrylate
                      0.207 0.209 0.186 0.220 0.173 0.191          0.198    8.86
80)  1,2-dichloropropane
          0.224 0.207 0.249 0.257 0.246 0.262 0.248 0.252 0.209    0.239    8.60
81)  dibromomethane
          0.155 0.149 0.201 0.206 0.197 0.211 0.199 0.195          0.189   12.40
82)  methylcyclohexane
          0.331 0.386 0.425 0.443 0.426 0.427 0.413 0.411 0.263    0.392   14.91
83)  bromodichloromethane
          0.410 0.361 0.446 0.457 0.436 0.468 0.437 0.433 0.370    0.424    8.74
84)  cis-1,3-dichloropropene
          0.387 0.402 0.495 0.504 0.463 0.527 0.452 0.466 0.429    0.458   10.15
85)  toluene-d8 (s)
          0.903 0.839 0.992 1.038 1.014 1.055 1.042 0.982 0.794    0.962    9.83
86)  4-methyl-2-pentanone
                      0.129 0.126 0.121 0.139 0.108 0.111          0.122    9.28
87)  toluene
          0.654 0.524 0.663 0.676 0.626 0.709 0.632 0.640 0.651    0.642    7.90
88)  3-methyl-1-butanol
          0.017 0.015 0.016 0.016 0.015 0.017 0.015 0.012          0.015   10.71
89)  trans-1,3-dichloropropene
          0.439 0.375 0.493 0.507 0.490 0.522 0.463 0.486 0.552    0.481   10.69
90)  ethyl methacrylate
          0.302 0.260 0.385 0.389 0.363 0.416 0.359 0.351          0.353   14.23
91)  1,1,2-trichloroethane
          0.183 0.173 0.220 0.223 0.204 0.236 0.195 0.211          0.206   10.38
92)  2-hexanone
                      0.114 0.112 0.104 0.127 0.083 0.096          0.106   14.27

93) I   chlorobenzene-d5      ----------------ISTD--------------------
94)  tetrachloroethene
          0.312 0.285 0.302 0.315 0.297 0.309 0.316 0.313 0.288    0.304    3.83
95)  3,3-dimethyl-1-butanol
                0.045 0.035 0.036 0.033 0.039 0.034 0.031          0.036   13.12
96)  1,3-dichloropropane
          0.456 0.359 0.459 0.476 0.460 0.468 0.469 0.437 0.459    0.449    7.90
97)  butyl acetate
          0.228 0.216 0.197 0.199 0.193 0.212 0.183 0.190          0.202    7.44
98)  dibromochloromethane
          0.356 0.353 0.418 0.440 0.417 0.437 0.416 0.419 0.352    0.401    9.12
99)  1,2-dibromoethane
          0.323 0.256 0.339 0.346 0.322 0.354 0.315 0.336 0.292    0.320    9.51
```

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICC3949
Lab FileID: 3B84627.D

```
100)  n-butyl ether
                                                                    0.000#  -1.00
101)  chlorobenzene
            0.897 0.699 0.863 0.891 0.816 0.915 0.840 0.847 0.971   0.860    8.82
102)  1,1,1,2-tetrachloroethane
            0.349 0.310 0.361 0.389 0.368 0.362 0.370 0.377 0.308   0.355    7.96
103)  ethylbenzene
            1.407 1.128 1.328 1.401 1.322 1.357 1.361 1.367 1.369   1.338    6.26
104)  m,p-xylene
            0.601 0.460 0.539 0.570 0.532 0.564 0.564 0.536 0.549   0.546    7.09
105)  o-xylene
            0.562 0.475 0.578 0.600 0.567 0.608 0.555 0.590 0.605   0.571    7.16
106)  butyl acrylate
                                                                    0.000#  -1.00
107)  styrene
            0.899 0.763 0.932 0.968 0.905 0.971 0.902 0.934 1.029   0.923    7.92
108)  bromoform
            0.319 0.260 0.352 0.363 0.337 0.370 0.319 0.348         0.334   10.50

109) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
110)  isopropylbenzene
            2.477 2.125 2.553 2.566 2.354 2.610 2.374 2.391 2.493   2.438    6.07
111)  4-bromofluorobenzene (s)
            0.825 0.645 0.742 0.762 0.742 0.782 0.723 0.691 0.817   0.747    7.71
112)  cyclohexanone
                  0.014 0.011 0.015 0.014 0.011 0.014 0.011         0.013   11.60
113)  bromobenzene
            0.680 0.629 0.718 0.738 0.695 0.744 0.707 0.704 0.773   0.710    5.85
114)  1,1,2,2-tetrachloroethane
            0.682 0.589 0.719 0.719 0.678 0.754 0.689 0.679 0.782   0.699    7.84
115)  trans-1,4-dichloro-2-butene
                        0.244 0.244 0.232 0.254 0.225 0.192         0.232    9.38
116)  1,2,3-trichloropropane
            0.243 0.150 0.227 0.238 0.226 0.231 0.217 0.226         0.220   13.36
117)  n-propylbenzene
            2.778 2.284 2.619 2.717 2.496 2.702 2.573 2.598 2.949   2.635    7.08
118)  4-ETHYLTOLUENE
                                                                    0.000#  -1.00
119)  2-chlorotoluene
            0.642 0.513 0.633 0.634 0.593 0.661 0.622 0.598 0.583   0.609    7.22
120)  4-chlorotoluene
            1.966 1.462 1.788 1.793 1.696 1.901 1.730 1.716 1.885   1.771    8.34
121)  1,3,5-trimethylbenzene
            2.055 1.820 2.163 2.185 2.007 2.214 2.090 2.003 2.343   2.098    7.18
122)  tert-butylbenzene
            1.831 1.561 2.048 2.010 1.806 2.071 1.850 1.797 2.044   1.891    8.88
123)  pentachloroethane
            0.473 0.472 0.531 0.546 0.518 0.559 0.523 0.491 0.526   0.515    5.93
124)  1,2,4-trimethylbenzene
            2.079 1.867 2.180 2.212 2.036 2.210 2.049 2.088 2.230   2.105    5.56
125)  sec-butylbenzene
            2.503 2.253 2.722 2.722 2.455 2.770 2.516 2.479 3.037   2.606    8.81
126)  1,3-dichlorobenzene
            1.437 1.205 1.334 1.362 1.264 1.404 1.311 1.287 1.417   1.336    5.76
127)  p-isopropyltoluene
            2.148 2.096 2.404 2.368 2.180 2.435 2.250 2.198 2.708   2.310    8.26
128)  1,4-dichlorobenzene
            1.421 1.167 1.357 1.361 1.266 1.442 1.340 1.304         1.332    6.57
129)  benzyl chloride
                  1.949 1.678 1.747 1.652 1.718 1.586 1.589         1.703    7.30
```

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICC3949
Lab FileID: 3B84627.D

```
130)  1,2-dichlorobenzene
            1.289 1.204 1.397 1.419 1.290 1.454 1.324 1.301 1.613   1.366    8.83
131)  1,4-DIETHYLBENZENE
                                                                    0.000#  -1.00
132)  n-butylbenzene
            0.854 0.947 1.136 1.121 0.991 1.157 1.036 0.994 1.175   1.046   10.43
133)  1,2,4,5-TETRAMETHYLBENZENE
                                                                    0.000#  -1.00
134)  1,2-dibromo-3-chloropropane
                  0.164 0.220 0.217 0.208 0.230 0.185 0.195         0.203   11.22
135)  1,3,5-trichlorobenzene
            1.037 1.086 1.298 1.306 1.173 1.323 1.315 1.174 1.378   1.232    9.64
136)  1,2,4-trichlorobenzene
            1.077 1.078 1.274 1.268 1.186 1.287 1.212 1.145 1.569   1.233   12.10
137)  hexachlorobutadiene
            0.489 0.545 0.557 0.576 0.526 0.542 0.633 0.513 0.731   0.568   12.92
138)  naphthalene
            2.521 2.384 2.952 2.965 2.772 2.994 2.671 2.659 3.693   2.846   13.35
139)  1,2,3-trichlorobenzene
            0.952 1.034 1.187 1.200 1.114 1.193 1.242 1.077 1.170   1.130    8.27
140)  hexachloroethane
            0.454 0.371 0.554 0.549 0.482 0.573 0.471 0.456         0.489   13.74
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3B3949.M         Fri Jun 22 13:16:52 2012   MS3B
```

Initial Calibration Verification

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICV3949
Lab FileID: 3B84636.D

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\DATA\v3b3949\3B84636.D Vial: 3
Acq On : 21 Jun 2012 11:48 am Operator: tarar1
Sample : icv3949-50 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Fri Jun 22 13:03:04 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 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)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	96	-0.02	7.92
2	ethanol		----------NA----------				
3	tertiary butyl alcohol	1.022	1.122	-9.8	104	0.00	8.06
	----------	True	Calc.	% Drift	----------		
4	1,4-dioxane	1250.000	1054.758	15.6	90	0.00	12.08
	----------	AvgRF	CCRF	% Dev	----------		
5 I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	10.37
6	freon 115		----------NA----------				
7	freon 23		----------NA----------				
8	freon 143a		----------NA----------				
9	freon 152a		----------NA----------				
10	chlorotrifluoroethene	0.169	0.169	0.0	95	0.01	3.97
11	chlorodifluoromethane	0.341	0.368	-7.9	110	0.00	4.08
12	dichlorodifluoromethane	0.533	0.539	-1.1	96	0.00	4.05
13	freon 114		----------NA----------				
14	freon 142b		----------NA----------				
	----------	True	Calc.	% Drift	----------		
15	chloromethane	50.000	48.609	2.8	106	0.00	4.42
	----------	AvgRF	CCRF	% Dev	----------		
16	vinyl chloride	0.398	0.428	-7.5	102	-0.01	4.71
17	acetaldehyde		----------NA----------				
18	bromomethane	0.287	0.297	-3.5	105	0.00	5.43
19	chloroethane	0.198	0.209	-5.6	104	0.01	5.63
20	vinyl bromide		----------NA----------				
21	trichlorofluoromethane	0.670	0.655	2.2	101	-0.02	6.19
22	PENTANE		----------NA----------				
23	ethyl ether	0.186	0.202	-8.6	109	0.00	6.64
24	freon 123		----------NA----------				
25	freon 141b		----------NA----------				
26	freon 123a	0.331	0.339	-2.4	99	0.00	6.67
27	acrolein	0.073	0.080	-9.6	108	-0.01	6.92
	----------	True	Calc.	% Drift	----------		
28	1,1-dichloroethene	50.000	48.002	4.0	103	-0.02	7.11
	----------	AvgRF	CCRF	% Dev	----------		
29	acetone	0.136	0.183	-34.6#	132	-0.01	7.19

Initial Calibration Verification

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICV3949
Lab FileID: 3B84636.D

30		allyl chloride	0.201	0.200	0.5	97	0.00	7.72
31		acetonitrile	0.028	0.032	-14.3	106	-0.03	7.69
32		iodomethane	0.628	0.710	-13.1	106	-0.01	7.42
33		iso-butyl alcohol	0.012	0.012	0.0	105	0.00	10.94
34		carbon disulfide	0.920	1.048	-13.9	109	-0.01	7.57
35		methylene chloride	0.354	0.354	0.0	103	0.00	7.93
		----------	True	Calc.	% Drift	----------		
36		methyl acetate	50.000	43.828	12.3	90	-0.01	7.72
		----------	AvgRF	CCRF	% Dev	----------		
37		methyl tert butyl ether	1.152	1.235	-7.2	105	0.00	8.31
38		trans-1,2-dichloroethene	0.313	0.323	-3.2	100	0.00	8.36
39		di-isopropyl ether	1.049	1.125	-7.2	103	0.00	8.99
		----------	True	Calc.	% Drift	----------		
40		2-butanone	50.000	53.709	-7.4	118	0.00	9.78
		----------	AvgRF	CCRF	% Dev	----------		
41		1,1-dichloroethane	0.582	0.660	-13.4	108	0.00	8.99
42		chloroprene	0.507	0.594	-17.2	112	0.00	9.11
43		acrylonitrile	0.146	0.153	-4.8	109	0.00	8.31
		----------	True	Calc.	% Drift	----------		
44		vinyl acetate	50.000	50.103	-0.2	104	0.00	9.00
		----------	AvgRF	CCRF	% Dev	----------		
45		ethyl tert-butyl ether	1.188	1.234	-3.9	100	-0.01	9.50
		----------	True	Calc.	% Drift	----------		
46		ethyl acetate	50.000	47.742	4.5	103	0.00	9.80
		----------	AvgRF	CCRF	% Dev	----------		
47		2,2-dichloropropane	0.542	0.648	-19.6	112	0.00	9.80
48		cis-1,2-dichloroethene	0.350	0.379	-8.3	104	0.00	9.80
49		propionitrile	0.058	0.059	-1.7	102	0.00	9.87
50		methylacrylate	0.426	0.443	-4.0	103	0.00	9.88
51		bromochloromethane	0.204	0.217	-6.4	100	0.00	10.13
52		tetrahydrofuran	0.145	0.155	-6.9	114	0.00	10.19
53		chloroform	0.676	0.727	-7.5	107	0.00	10.20
54		t-butyl formate	0.414	0.465	-12.3	107	0.00	10.23
55	S	dibromofluoromethane (s)	0.365	0.381	-4.4	100	0.00	10.41
56	S	1,2-dichloroethane-d4 (s)	0.529	0.524	0.9	100	0.00	10.85
57		freon 113	0.308	0.284	7.8	89	0.00	7.09
58		methacrylonitrile	0.259	0.269	-3.9	105	0.00	10.07
59		1,1,1-trichloroethane	0.611	0.655	-7.2	101	0.00	10.47
60		Cyclohexane	0.422	0.454	-7.6	101	0.00	10.55
61		tert amyl alcohol	0.054	0.053	1.9	98	0.00	10.82
62		iso-octane	0.961	0.872	9.3	90	0.00	10.94
63	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	11.33
64		tert-amyl ethyl ether	0.718	0.720	-0.3	102	0.00	11.86
65		epichlorohydrin	0.034	0.039	-14.7	114	0.00	12.64
		----------	True	Calc.	% Drift	----------		
66		n-butyl alcohol	2500.000	2221.232	11.2	88	0.00	11.47
		----------	AvgRF	CCRF	% Dev	----------		
67		carbon tetrachloride	0.462	0.486	-5.2	102	0.00	10.68
68		1,1-dichloropropene	0.353	0.375	-6.2	101	0.00	10.66

Initial Calibration Verification

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICV3949
Lab FileID: 3B84636.D

			True	Calc.	% Drift			
69		hexane	0.290	0.274	5.5	90	0.00	8.72
70		benzene	0.957	0.982	-2.6	103	0.00	10.93
71		tert-amyl methyl ether	0.879	0.880	-0.1	103	0.00	10.98
72		heptane	0.161	0.148	8.1	88	0.00	11.13
73		isopropyl acetate	0.563	0.602	-6.9	101	0.00	10.87
74		1,2-dichloroethane	0.446	0.481	-7.8	102	0.00	10.94
75		ethyl acrylate		----------NA----------				
76		trichloroethene	0.276	0.297	-7.6	103	0.00	11.68
			True	Calc.	% Drift			
77		2-nitropropane	50.000	48.789	2.4	105	0.00	12.87
			AvgRF	CCRF	% Dev			
78		2-chloroethyl vinyl ether	0.164	0.181	-10.4	105	0.00	12.51
79		methyl methacrylate	0.198	0.201	-1.5	99	0.00	11.97
80		1,2-dichloropropane	0.239	0.258	-7.9	103	0.00	11.96
81		dibromomethane	0.189	0.216	-14.3	109	0.00	12.12
82		methylcyclohexane	0.392	0.379	3.3	88	0.00	11.91
83		bromodichloromethane	0.424	0.458	-8.0	104	0.00	12.26
84		cis-1,3-dichloropropene	0.458	0.496	-8.3	102	0.00	12.74
85	S	toluene-d8 (s)	0.962	1.007	-4.7	100	0.00	13.05
86		4-methyl-2-pentanone	0.122	0.126	-3.3	104	0.00	12.84
87		toluene	0.642	0.664	-3.4	102	0.00	13.13
88		3-methyl-1-butanol	0.015	0.015	0.0	97	0.00	12.88
89		trans-1,3-dichloropropene	0.481	0.522	-8.5	106	0.00	13.34
90		ethyl methacrylate	0.353	0.377	-6.8	100	0.00	13.33
91		1,1,2-trichloroethane	0.206	0.226	-9.7	105	0.00	13.57
92		2-hexanone	0.106	0.114	-7.5	105	0.00	13.75
93	I	chlorobenzene-d5	1.000	1.000	0.0	106	0.00	14.67
94		tetrachloroethene	0.304	0.299	1.6	101	0.00	13.76
95		3,3-dimethyl-1-butanol	0.036	0.033	8.3	97	0.00	13.94
96		1,3-dichloropropane	0.449	0.459	-2.2	102	0.00	13.76
97		butyl acetate	0.202	0.196	3.0	104	0.00	13.83
98		dibromochloromethane	0.401	0.420	-4.7	101	0.00	14.05
99		1,2-dibromoethane	0.320	0.339	-5.9	104	0.00	14.21
100		n-butyl ether		----------NA----------				
101		chlorobenzene	0.860	0.857	0.3	102	0.00	14.70
102		1,1,1,2-tetrachloroethane	0.355	0.371	-4.5	101	0.00	14.76
103		ethylbenzene	1.338	1.351	-1.0	102	0.00	14.76
104		m,p-xylene	0.546	0.542	0.7	101	0.00	14.87
105		o-xylene	0.571	0.592	-3.7	105	0.00	15.32
106		butyl acrylate		----------NA----------				
107		styrene	0.923	0.934	-1.2	102	0.00	15.33
108		bromoform	0.334	0.358	-7.2	105	0.00	15.61
109	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	17.14
110		isopropylbenzene	2.438	2.453	-0.6	102	0.00	15.68
111	S	4-bromofluorobenzene (s)	0.747	0.700	6.3	98	0.00	15.90
112		cyclohexanone	0.013	0.038	-192.3#	279#	0.00	15.86
113		bromobenzene	0.710	0.698	1.7	101	0.00	16.11
114		1,1,2,2-tetrachloroethane	0.699	0.687	1.7	102	0.00	16.00
115		trans-1,4-dichloro-2-bute	0.232	0.253	-9.1	111	0.00	16.05
116		1,2,3-trichloropropane	0.220	0.219	0.5	98	0.00	16.09
117		n-propylbenzene	2.635	2.625	0.4	103	0.00	16.12
118		4-ETHYLTOLUENE		----------NA----------				
119		2-chlorotoluene	0.609	0.605	0.7	102	0.00	16.27
120		4-chlorotoluene	1.771	1.729	2.4	103	0.00	16.38
121		1,3,5-trimethylbenzene	2.098	2.070	1.3	101	0.00	16.27
122		tert-butylbenzene	1.891	1.908	-0.9	101	0.00	16.64

Initial Calibration Verification

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B3949-ICV3949
Lab FileID: 3B84636.D

123	pentachloroethane	0.515	0.534	-3.7	104	0.00	16.73
124	1,2,4-trimethylbenzene	2.105	2.146	-1.9	104	0.00	16.69
125	sec-butylbenzene	2.606	2.532	2.8	99	0.00	16.87
126	1,3-dichlorobenzene	1.336	1.331	0.4	104	0.00	17.08
127	p-isopropyltoluene	2.310	2.333	-1.0	105	0.00	17.00
128	1,4-dichlorobenzene	1.332	1.326	0.5	104	0.00	17.17
129	benzyl chloride	1.703	2.386	-40.1#	146	0.00	17.29
130	1,2-dichlorobenzene	1.366	1.388	-1.6	104	0.00	17.59
131	1,4-DIETHYLBENZENE		----------NA----------				
132	n-butylbenzene	1.046	1.087	-3.9	104	0.00	17.44
133	1,2,4,5-TETRAMETHYLBENZEN		----------NA----------				
134	1,2-dibromo-3-chloropropa	0.203	0.214	-5.4	106	0.00	18.42
135	1,3,5-trichlorobenzene	1.232	1.221	0.9	100	0.00	18.63
136	1,2,4-trichlorobenzene	1.233	1.282	-4.0	108	0.00	19.32
137	hexachlorobutadiene	0.568	0.543	4.4	101	0.00	19.44
138	naphthalene	2.846	2.840	0.2	102	0.00	19.62
139	1,2,3-trichlorobenzene	1.130	1.138	-0.7	101	0.00	19.88
140	hexachloroethane	0.489	0.530	-8.4	103	0.00	17.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3B84627.D M3B3949.M Fri Jun 22 13:16:27 2012 MS3B

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B4068-CC3949
Lab FileID: 3B87167.D

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\DATA\3B87167.D Vial: 3
Acq On : 7 Sep 2012 12:04 pm Operator: tarar1
Sample : cc3949-20 Inst : MS3B
Misc : ms35088,v3b4068,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Mon Aug 20 15:32:38 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 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)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	126	-0.02	7.92
2	ethanol		----------NA----------				
3	tertiary butyl alcohol	1.022	0.998	2.3	127	-0.02	8.05
	----------	True	Calc.	% Drift	----------		
4	1,4-dioxane	500.000	520.569	-4.1	149	0.00	12.08
	----------	AvgRF	CCRF	% Dev	----------		
5 I	pentafluorobenzene	1.000	1.000	0.0	128	-0.01	10.36
6	freon 115		----------NA----------				
7	freon 23		----------NA----------				
8	freon 143a		----------NA----------				
9	freon 152a		----------NA----------				
10	chlorotrifluoroethene		----------NA----------				
11	chlorodifluoromethane	0.341	0.261	23.5#	98	-0.01	4.07
12	dichlorodifluoromethane	0.533	0.513	3.8	118	0.00	4.06
13	freon 114		----------NA----------				
14	freon 142b		----------NA----------				
	----------	True	Calc.	% Drift	----------		
15	chloromethane	20.000	19.207	4.0	131	0.00	4.42
	----------	AvgRF	CCRF	% Dev	----------		
16	vinyl chloride	0.398	0.421	-5.8	133	-0.02	4.70
17	acetaldehyde		----------NA----------				
18	bromomethane	0.287	0.303	-5.6	129	0.00	5.43
19	chloroethane	0.198	0.201	-1.5	121	0.01	5.63
20	vinyl bromide		----------NA----------				
21	trichlorofluoromethane	0.670	0.588	12.2	112	-0.03	6.18
22	PENTANE		----------NA----------				
23	ethyl ether	0.186	0.193	-3.8	136	-0.01	6.63
24	freon 123		----------NA----------				
25	freon 141b		----------NA----------				
26	freon 123a		----------NA----------				
27	acrolein	0.073	0.064	12.3	107	-0.02	6.92
	----------	True	Calc.	% Drift	----------		
28	1,1-dichloroethene	20.000	20.316	-1.6	140	-0.02	7.11
	----------	AvgRF	CCRF	% Dev	----------		
29	acetone	0.136	0.126	7.4	118	-0.01	7.19

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B4068-CC3949
Lab FileID: 3B87167.D

30		allyl chloride	0.201	0.197	2.0	133	0.00	7.71
31		acetonitrile	0.028	0.031	-10.7	151	-0.04	7.68
32		iodomethane	0.628	0.710	-13.1	142	-0.02	7.41
33		iso-butyl alcohol	0.012	0.010	16.7	116	0.00	10.93
34		carbon disulfide	0.920	1.041	-13.2	145	-0.01	7.57
35		methylene chloride	0.354	0.348	1.7	129	-0.01	7.93
		----------	True	Calc.	% Drift	----------		
36		methyl acetate	20.000	20.415	-2.1	132	-0.01	7.72
		----------	AvgRF	CCRF	% Dev	----------		
37		methyl tert butyl ether	1.152	1.102	4.3	120	-0.01	8.31
38		trans-1,2-dichloroethene	0.313	0.331	-5.8	134	-0.01	8.36
39		di-isopropyl ether	1.049	0.953	9.2	115	0.00	8.99
		----------	True	Calc.	% Drift	----------		
40		2-butanone	20.000	22.676	-13.4	132	0.00	9.79
		----------	AvgRF	CCRF	% Dev	----------		
41		1,1-dichloroethane	0.582	0.577	0.9	124	-0.01	8.98
42		chloroprene	0.507	0.396	21.9#	96	-0.02	9.10
43		acrylonitrile	0.146	0.155	-6.2	135	0.00	8.30
		----------	True	Calc.	% Drift	----------		
44		vinyl acetate	20.000	19.895	0.5	125	0.00	8.99
		----------	AvgRF	CCRF	% Dev	----------		
45		ethyl tert-butyl ether	1.188	1.043	12.2	110	-0.01	9.50
		----------	True	Calc.	% Drift	----------		
46		ethyl acetate	20.000	19.440	2.8	117	0.00	9.80
		----------	AvgRF	CCRF	% Dev	----------		
47		2,2-dichloropropane	0.542	0.544	-0.4	122	-0.02	9.79
48		cis-1,2-dichloroethene	0.350	0.379	-8.3	140	-0.02	9.79
49		propionitrile	0.058	0.063	-8.6	136	0.00	9.87
50		methylacrylate	0.426	0.430	-0.9	131	0.00	9.88
51		bromochloromethane	0.204	0.210	-2.9	129	-0.01	10.13
52		tetrahydrofuran	0.145	0.134	7.6	119	-0.01	10.18
53		chloroform	0.676	0.630	6.8	121	-0.02	10.19
54		t-butyl formate	0.414	0.345	16.7	104	-0.02	10.22
55	S	dibromofluoromethane (s)	0.365	0.354	3.0	117	-0.01	10.41
56	S	1,2-dichloroethane-d4 (s)	0.529	0.436	17.6	100	-0.02	10.84
57		freon 113	0.308	0.297	3.6	119	0.00	7.08
58		methacrylonitrile	0.259	0.219	15.4	113	0.00	10.07
59		1,1,1-trichloroethane	0.611	0.563	7.9	118	0.00	10.46
60		Cyclohexane	0.422	0.476	-12.8	145	0.00	10.54
61		tert amyl alcohol		----------NA----------				
62		iso-octane	0.961	0.952	0.9	123	-0.02	10.93
63	I	1,4-difluorobenzene	1.000	1.000	0.0	129	-0.01	11.32
64		tert-amyl ethyl ether		----------NA----------				
65		epichlorohydrin	0.034	0.034	0.0	130	-0.01	12.64
		----------	True	Calc.	% Drift	----------		
66		n-butyl alcohol	1000.000	1068.190	-6.8	133	0.00	11.47
		----------	AvgRF	CCRF	% Dev	----------		
67		carbon tetrachloride	0.462	0.417	9.7	114	-0.02	10.67
68		1,1-dichloropropene	0.353	0.350	0.8	122	-0.01	10.65

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B4068-CC3949
Lab FileID: 3B87167.D

69		hexane	0.290	0.264	9.0	112	-0.01	8.70
70		benzene	0.957	0.962	-0.5	133	-0.01	10.92
71		tert-amyl methyl ether	0.879	0.753	14.3	110	-0.01	10.97
72		heptane	0.161	0.154	4.3	121	0.00	11.12
73		isopropyl acetate	0.563	0.465	17.4	106	0.00	10.87
74		1,2-dichloroethane	0.446	0.393	11.9	105	0.00	10.94
75		ethyl acrylate		----------NA----------				
76		trichloroethene	0.276	0.270	2.2	127	0.00	11.68
		----------	True	Calc.	% Drift	----------		
77		2-nitropropane	20.000	24.853	-24.3#	171	-0.01	12.87
		----------	AvgRF	CCRF	% Dev	----------		
78		2-chloroethyl vinyl ether	0.164	0.177	-7.9	137	-0.01	12.51
79		methyl methacrylate	0.198	0.197	0.5	136	0.00	11.97
80		1,2-dichloropropane	0.239	0.256	-7.1	134	-0.01	11.95
81		dibromomethane	0.189	0.197	-4.2	129	-0.01	12.12
82		methylcyclohexane	0.392	0.404	-3.1	122	0.00	11.91
83		bromodichloromethane	0.424	0.390	8.0	115	-0.02	12.25
84		cis-1,3-dichloropropene	0.458	0.462	-0.9	129	-0.01	12.74
85	S	toluene-d8 (s)	0.962	1.029	-7.0	131	0.00	13.05
86		4-methyl-2-pentanone	0.122	0.120	1.6	128	0.00	12.84
87		toluene	0.642	0.644	-0.3	132	0.00	13.13
88		3-methyl-1-butanol	0.015	0.014	6.7	126	-0.01	12.87
89		trans-1,3-dichloropropene	0.481	0.442	8.1	116	0.00	13.33
90		ethyl methacrylate	0.353	0.366	-3.7	130	0.00	13.33
91		1,1,2-trichloroethane	0.206	0.220	-6.8	139	-0.01	13.56
92		2-hexanone	0.106	0.106	0.0	131	0.00	13.75
93	I	chlorobenzene-d5	1.000	1.000	0.0	126	-0.01	14.66
94		tetrachloroethene	0.304	0.316	-3.9	134	-0.01	13.75
95		3,3-dimethyl-1-butanol	0.036	0.034	5.6	128	0.00	13.94
96		1,3-dichloropropane	0.449	0.469	-4.5	129	-0.01	13.75
97		butyl acetate	0.202	0.200	1.0	131	0.00	13.83
98		dibromochloromethane	0.401	0.388	3.2	117	0.00	14.04
99		1,2-dibromoethane	0.320	0.342	-6.9	134	-0.01	14.20
100		n-butyl ether		----------NA----------				
101		chlorobenzene	0.860	0.859	0.1	133	0.00	14.69
102		1,1,1,2-tetrachloroethane	0.355	0.362	-2.0	124	-0.01	14.76
103		ethylbenzene	1.338	1.368	-2.2	131	0.00	14.75
104		m,p-xylene	0.546	0.555	-1.6	131	-0.01	14.86
105		o-xylene	0.571	0.575	-0.7	128	0.00	15.31
106		butyl acrylate		----------NA----------				
107		styrene	0.923	0.959	-3.9	134	0.00	15.32
108		bromoform	0.334	0.342	-2.4	128	0.00	15.61
109	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	17.14
110		isopropylbenzene	2.438	2.611	-7.1	135	0.00	15.67
111	S	4-bromofluorobenzene (s)	0.747	0.726	2.8	119	0.00	15.89
112		cyclohexanone	0.013	0.027	-107.7#	236#	0.00	15.85
113		bromobenzene	0.710	0.747	-5.2	130	0.00	16.11
114		1,1,2,2-tetrachloroethane	0.699	0.763	-9.2	137	-0.01	16.00
115		trans-1,4-dichloro-2-bute	0.232	0.185	20.3#	96	0.00	16.04
116		1,2,3-trichloropropane	0.220	0.224	-1.8	120	-0.01	16.07
117		n-propylbenzene	2.635	2.769	-5.1	135	-0.01	16.11
118		4-ETHYLTOLUENE		----------NA----------				
119		2-chlorotoluene	0.609	0.642	-5.4	131	0.00	16.27
120		4-chlorotoluene	1.771	1.793	-1.2	128	0.00	16.37
121		1,3,5-trimethylbenzene	2.098	2.171	-3.5	131	-0.01	16.26
122		tert-butylbenzene	1.891	2.022	-6.9	136	0.00	16.63

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3B4068-CC3949
Lab FileID: 3B87167.D

123	pentachloroethane	0.515	0.535	-3.9	125	-0.01	16.73
124	1,2,4-trimethylbenzene	2.105	2.209	-4.9	132	0.00	16.69
125	sec-butylbenzene	2.606	2.807	-7.7	139	0.00	16.86
126	1,3-dichlorobenzene	1.336	1.389	-4.0	133	0.00	17.07
127	p-isopropyltoluene	2.310	2.466	-6.8	137	0.00	16.99
128	1,4-dichlorobenzene	1.332	1.396	-4.8	134	0.00	17.16
129	benzyl chloride	1.703	1.647	3.3	121	0.00	17.28
130	1,2-dichlorobenzene	1.366	1.430	-4.7	135	0.00	17.59
131	1,4-DIETHYLBENZENE		----------NA----------				
132	n-butylbenzene	1.046	1.156	-10.5	142	0.00	17.43
133	1,2,4,5-TETRAMETHYLBENZEN		----------NA----------				
134	1,2-dibromo-3-chloropropa	0.203	0.183	9.9	107	-0.01	18.42
135	1,3,5-trichlorobenzene	1.232	1.359	-10.3	141	0.00	18.63
136	1,2,4-trichlorobenzene	1.233	1.278	-3.6	131	-0.01	19.31
137	hexachlorobutadiene	0.568	0.677	-19.2	156	-0.01	19.43
138	naphthalene	2.846	2.840	0.2	124	0.00	19.62
139	1,2,3-trichlorobenzene	1.130	1.192	-5.5	130	0.00	19.88
140	hexachloroethane	0.489	0.539	-10.2	136	0.00	17.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3B84626.D M3B3949.M Mon Sep 10 12:37:40 2012 MS3B

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7140-ICC7140
Lab FileID: I176822.D

Response Factor Report MSI

Method : C:\MSDCHEM\1\METHODS\MI7140.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Sep 04 16:02:08 2012
Response via : Initial Calibration

Calibration Files
0.5 =I176820.D 1 =I176819.D 2 =I176818.D 5 =I176817.D
10 =I176816.D 20 =I176826.D 50 =I176854a.D 100 =I176823.D
200 =I176824.D =

Compound	0.5	1	2	5	10	20	50	100	200	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------											
2) tertiary butyl alcohol											
		0.081	0.070	0.073	0.079	0.076	0.076	0.084		0.077	6.29
3) iso-butyl alcohol											
		0.026	0.025	0.029	0.027	0.027	0.026	0.028		0.027	5.03
4) 1,4-dioxane											
		0.006	0.006	0.007	0.007	0.007	0.007	0.008		0.007#	9.76
5) I pentafluorobenzene ----------ISTD----------											
6) chlorodifluoromethane											
		0.319	0.319	0.310	0.314	0.326	0.302	0.340		0.319	3.83
7) dichlorodifluoromethane											
	0.354	0.366	0.389	0.422	0.439	0.463	0.423	0.463		0.415	10.04
8) chloromethane											
	0.382	0.366	0.338	0.337	0.352	0.353	0.331	0.357		0.352	4.82
9) vinyl chloride											
	0.330	0.346	0.356	0.380	0.400	0.413	0.384	0.414		0.378	8.28
10) bromomethane											
	0.166	0.154	0.143	0.148	0.148	0.155	0.141	0.149		0.151	5.28
11) chloroethane											
	0.155	0.148	0.146	0.151	0.155	0.157	0.145	0.156		0.152	3.14
12) trichlorofluoromethane											
	0.366	0.376	0.389	0.414	0.435	0.449	0.416	0.451		0.412	7.89
13) ethyl ether											
	0.148	0.152	0.126	0.118	0.133	0.124	0.119	0.132		0.132	9.43
14) acrolein											
		0.035	0.031	0.030	0.037	0.033	0.033	0.035		0.033	7.25
15) freon 113											
	0.218	0.215	0.223	0.218	0.232	0.234	0.216	0.252		0.226	5.65
16) 1,1-dichloroethene											
	0.338	0.339	0.378	0.366	0.388	0.417	0.435	0.399	0.463	0.392	10.78
17) acetone											
				0.019	0.023	0.018	0.017	0.017	0.020	0.019	11.50
18) iodomethane											
	0.393	0.393	0.462	0.442	0.459	0.497	0.499	0.474	0.536	0.462	10.31
19) carbon disulfide											
	1.105	1.178	1.081	1.128	1.202	1.246	1.144	1.330		1.177	6.94
20) methyl acetate											
		0.027	0.028	0.027	0.031	0.029	0.029	0.032		0.029	6.66
21) allyl chloride											
	0.125	0.141	0.136	0.141	0.154	0.157	0.146	0.167		0.146	8.96
22) acetonitrile											
	0.060	0.063	0.061	0.057	0.063	0.061	0.058	0.065		0.061	4.27
23) methylene chloride											

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7140-ICC7140
Lab FileID: I176822.D

		0.324	0.289	0.257	0.260	0.276	0.268	0.258	0.286	0.277	8.17
24)	methyl tert butyl ether										
		0.817	0.704	0.728	0.627	0.596	0.703	0.655	0.647	0.707	0.687	9.50
25)	acrylonitrile										
		0.049	0.059	0.053	0.050	0.062	0.058	0.057	0.062	0.056	9.19
26)	trans-1,2-dichloroethene										
		0.263	0.353	0.339	0.277	0.269	0.275	0.286	0.268	0.301	0.292	11.17
27)	hexane										
			0.302	0.312	0.298	0.315	0.323	0.296	0.339	0.312	4.96
28)	di-isopropyl ether										
		0.806	0.740	0.789	0.765	0.770	0.833	0.808	0.788	0.868	0.796	4.81
29)	vinyl acetate										
		0.129	0.154	0.144	0.144	0.155	0.156	0.149	0.166	0.150	7.34
30)	1,1-dichloroethane										
		0.426	0.411	0.460	0.437	0.455	0.486	0.489	0.460	0.513	0.460	7.06
31)	chloroprene										
		0.290	0.268	0.318	0.324	0.335	0.352	0.363	0.345	0.397	0.332	11.58
32)	ethyl tert-butyl ether										
		0.706	0.690	0.754	0.718	0.731	0.822	0.784	0.774	0.857	0.759	7.29
33)	2-butanone										
					0.018	0.020	0.024	0.023	0.023	0.026	0.022	12.83
34)	ethyl acetate										
			0.025	0.031	0.027	0.023	0.027	0.024	0.024	0.026	0.026	10.09
35)	2,2-dichloropropane										
		0.437	0.397	0.433	0.407	0.421	0.452	0.465	0.431	0.491	0.437	6.66
36)	cis-1,2-dichloroethene										
			0.339	0.355	0.283	0.280	0.307	0.298	0.285	0.315	0.308	8.86
37)	methacrylonitrile										
					0.059	0.060	0.073	0.070	0.069	0.077	0.068	10.28
38)	propionitrile										
			0.019	0.023	0.020	0.020	0.025	0.023	0.023	0.025	0.022	10.29
39)	bromochloromethane										
		0.108	0.111	0.128	0.120	0.122	0.136	0.131	0.128	0.143	0.125	9.05
40)	tetrahydrofuran										
					0.066	0.057	0.066	0.060	0.059	0.065	0.062	6.36
41)	chloroform										
		0.536	0.453	0.475	0.446	0.454	0.491	0.486	0.466	0.521	0.481	6.47
42)	tert-Butyl Formate										
		0.148	0.165	0.186	0.171	0.170	0.201	0.190	0.192	0.213	0.182	10.98
43)	dibromofluoromethane (s)										
					0.315	0.272	0.298	0.272	0.261	0.292	0.285	7.04
44)	1,1,1-trichloroethane										
		0.359	0.346	0.410	0.400	0.412	0.453	0.469	0.436	0.506	0.421	12.13
45)	cyclohexane										
		0.337	0.318	0.371	0.370	0.392	0.423	0.449	0.398	0.464	0.391	12.44
46)	I 1,4-difluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	----------	----------	----------	
47)	1,2-dichloroethane-d4 (s)										
					0.223	0.187	0.209	0.190	0.185	0.202	0.199	7.51
48)	carbon tetrachloride										
		0.210	0.208	0.247	0.239	0.256	0.279	0.293	0.274	0.316	0.258	14.13
49)	1,1-dichloropropene										
		0.242	0.225	0.248	0.239	0.248	0.269	0.280	0.258	0.294	0.256	8.49
50)	isopropyl acetate										
				0.048	0.048	0.047	0.058	0.053	0.053	0.059	0.052	8.90
51)	benzene										
		0.751	0.659	0.742	0.693	0.721	0.767	0.764	0.721	0.775	0.733	5.22
52)	2,2,4-trimethylpentane										
		0.590	0.546	0.592	0.651	0.655	0.692	0.723	0.672	0.758	0.653	10.39
53)	tert-amyl methyl ether										

Initial Calibration Summary

Job Number: JB15104 **Sample:** VI7140-ICC7140
Account: CARICH C. A. Rich Consultants **Lab FileID:** I176822.D
Project: Elks Plaza, Freeport, NY

		0.466	0.430	0.477	0.444	0.450	0.511	0.481	0.476	0.509	0.471	5.82
54)	1,2-dichloroethane											
		0.205	0.191	0.222	0.205	0.208	0.235	0.224	0.219	0.238	0.216	7.11
55)	heptane											
		0.106	0.103	0.115	0.130	0.131	0.138	0.144	0.132	0.150	0.128	12.88
56)	n-butyl alcohol											
				0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004#	11.28
57)	trichloroethene											
		0.166	0.158	0.182	0.175	0.184	0.204	0.205	0.195	0.220	0.188	10.67
58)	ethyl acrylate											
				0.234	0.245	0.248	0.261	0.270	0.249	0.285	0.256	6.80
59)	methyl methacrylate											
				0.074	0.074	0.074	0.095	0.086	0.090	0.095	0.084	11.57
60)	1,2-dichloropropane											
		0.167	0.150	0.172	0.164	0.167	0.182	0.179	0.174	0.189	0.172	6.61
61)	methylcyclohexane											
		0.245	0.258	0.279	0.303	0.305	0.326	0.335	0.309	0.351	0.301	11.61
62)	dibromomethane											
		0.079	0.083	0.096	0.090	0.093	0.105	0.100	0.099	0.107	0.095	10.09
63)	bromodichloromethane											
		0.215	0.203	0.225	0.211	0.220	0.249	0.246	0.241	0.268	0.231	9.13
64)	2-nitropropane											
				0.050	0.054	0.047	0.043	0.051	0.047	0.047	0.051	0.049	6.92
65)	2-chloroethyl vinyl ether											
		0.054	0.052	0.060	0.056	0.056	0.068	0.063	0.063	0.068	0.060	9.66
66)	epichlorohydrin											
				0.012	0.011	0.010	0.012	0.012	0.012	0.013	0.012	8.11
67)	cis-1,3-dichloropropene											
		0.254	0.249	0.275	0.254	0.266	0.298	0.290	0.283	0.308	0.275	7.65
68)	4-methyl-2-pentanone											
				0.043	0.041	0.040	0.051	0.048	0.048	0.052	0.046	10.33
69)	3-methyl-1-butanol											
				0.003	0.003	0.003	0.003	0.004	0.003	0.004	0.004	0.003#	15.66

----- Linear regression ----- Coefficient = 0.9975
Response Ratio = -0.00398 + 0.00398 *A

70)	toluene											
		0.749	0.680	0.736	0.707	0.740	0.798	0.790	0.745	0.805	0.750	5.58
71)	trans-1,3-dichloropropene											
		0.221	0.220	0.236	0.219	0.225	0.257	0.245	0.240	0.260	0.236	6.68
72)	ethyl methacrylate											
		0.143	0.136	0.158	0.142	0.144	0.176	0.168	0.170	0.187	0.158	11.27
73)	1,1,2-trichloroethane											
		0.097	0.097	0.107	0.100	0.103	0.118	0.110	0.109	0.117	0.106	7.45
74)	2-hexanone											
					0.038	0.036	0.046	0.043	0.043	0.047	0.042	10.43
75)	I chlorobenzene-d5	----------ISTD----------										
76)	toluene-d8 (s)											
					0.879	0.826	0.954	0.877	0.826	0.901	0.877	5.51
77)	tetrachloroethene											
		0.229	0.219	0.251	0.241	0.257	0.275	0.283	0.261	0.295	0.257	9.68
78)	1,3-dichloropropane											
		0.260	0.244	0.269	0.245	0.251	0.285	0.271	0.262	0.283	0.263	5.74
79)	butyl acetate											
				0.098	0.089	0.090	0.108	0.100	0.101	0.111	0.100	8.31
80)	3,3-Dimethyl-1-Butanol											
		0.012	0.013	0.015	0.013	0.012	0.016	0.015	0.016	0.018	0.014	13.41
81)	dibromochloromethane											
				0.174	0.195	0.181	0.192	0.220	0.217	0.218	0.241	0.205	11.10

Initial Calibration Summary

Job Number: JB15104 **Sample:** VI7140-ICC7140
Account: CARICH C. A. Rich Consultants **Lab FileID:** I176822.D
Project: Elks Plaza, Freeport, NY

82)	1,2-dibromoethane											
		0.150	0.154	0.165	0.151	0.155	0.177	0.170	0.168	0.184	0.164	7.40
83)	chlorobenzene											
		0.577	0.555	0.594	0.560	0.582	0.630	0.619	0.588	0.636	0.594	4.93
84)	1,1,1,2-tetrachloroethane											
		0.178	0.189	0.213	0.204	0.211	0.230	0.226	0.218	0.234	0.212	8.86
85)	ethylbenzene											
		1.023	0.934	1.026	0.967	1.020	1.083	1.085	1.008	1.082	1.025	5.16
86)	m,p-xylene											
		0.369	0.348	0.384	0.375	0.392	0.418	0.415	0.383	0.399	0.387	5.69
87)	o-xylene											
		0.377	0.341	0.376	0.366	0.379	0.409	0.398	0.373	0.394	0.379	5.24
88)	styrene											
		0.571	0.532	0.597	0.566	0.590	0.649	0.638	0.609	0.640	0.599	6.52
89)	bromoform											
		0.104	0.116	0.107	0.108	0.130	0.127	0.130	0.148	0.121	12.55	
90)	I 1,4-dichlorobenzene-d ----------ISTD----------											
91)	4-bromofluorobenzene (s)											
		0.660	0.623	0.687	0.637	0.616	0.669	0.649	4.33			
92)	isopropylbenzene											
		1.907	1.808	2.033	1.976	2.104	2.204	2.237	2.064	2.230	2.062	7.23
93)	cyclohexanone											
		0.045	0.049	0.046	0.051	0.051	0.054	0.058	0.050	8.72		
94)	1,1,2,2-tetrachloroethane											
		0.392	0.393	0.428	0.379	0.380	0.445	0.428	0.414	0.451	0.412	6.61
95)	trans-1,4-dichloro-2-butene											
		0.100	0.095	0.101	0.121	0.115	0.115	0.129	0.111	11.12		
96)	1,2,3-trichloropropane											
		0.077	0.095	0.089	0.091	0.104	0.100	0.095	0.100	0.094	8.79	
97)	n-propylbenzene											
		2.504	2.203	2.436	2.326	2.452	2.554	2.544	2.328	2.446	2.421	4.77
98)	bromobenzene											
		0.525	0.499	0.533	0.493	0.510	0.553	0.531	0.510	0.532	0.521	3.68
99)	2-chlorotoluene											
		0.489	0.446	0.485	0.471	0.498	0.525	0.512	0.474	0.495	0.488	4.80
100)	4-chlorotoluene											
		1.769	1.576	1.561	1.448	1.521	1.592	1.565	1.495	1.625	1.572	5.78
101)	1,3,5-trimethylbenzene											
		1.719	1.579	1.732	1.622	1.741	1.830	1.828	1.679	1.770	1.722	4.93
102)	tert-butylbenzene											
		1.449	1.304	1.412	1.371	1.446	1.523	1.562	1.437	1.566	1.452	5.99
103)	pentachloroethane											
		0.259	0.277	0.304	0.283	0.306	0.341	0.341	0.331	0.370	0.312	11.57
104)	1,2,4-trimethylbenzene											
		1.783	1.631	1.713	1.642	1.731	1.816	1.800	1.700	1.826	1.738	4.19
105)	sec-butylbenzene											
		2.183	1.950	2.169	2.062	2.218	2.334	2.375	2.163	2.346	2.200	6.31
106)	p-isopropyltoluene											
		1.859	1.675	1.777	1.701	1.807	1.893	1.912	1.767	1.911	1.811	4.90
107)	benzyl chloride											
		0.819	0.870	0.806	0.784	0.935	0.882	0.896	0.990	0.873	7.94	
108)	1,3-dichlorobenzene											
		1.016	0.951	0.988	0.932	0.975	1.041	1.001	0.964	1.044	0.990	3.94
109)	1,4-dichlorobenzene											
		1.100	0.950	1.036	0.932	0.966	1.040	0.995	0.963	1.043	1.003	5.52
110)	1,2-dichlorobenzene											
		0.939	0.878	0.941	0.841	0.874	0.953	0.915	0.881	0.944	0.907	4.38
111)	n-butylbenzene											
		0.963	0.869	0.968	0.917	0.983	1.022	1.034	0.957	1.042	0.973	5.79

Initial Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7140-ICC7140
Lab FileID: I176822.D

```
112)  hexachloroethane
                  0.367 0.349 0.304 0.365 0.373 0.382 0.364 0.410   0.364    8.22
113)  1,2-dibromo-3-chloropropane
                        0.080 0.072 0.071 0.085 0.081 0.079 0.085   0.079    6.97
114)  1,3,5-Trichlorobenzene
                  0.778 0.854 0.779 0.815 0.899 0.851 0.801 0.846   0.828    5.08
115)  1,2,4-trichlorobenzene
                  0.740 0.768 0.688 0.693 0.793 0.719 0.671 0.702   0.722    5.88
116)  hexachlorobutadiene
                  0.397 0.437 0.433 0.461 0.497 0.481 0.433 0.456   0.449    6.96
117)  naphthalene
                              1.269 1.172 1.457 1.243 1.142 1.190   1.246    9.11
118)  1,2,3-trichlorobenzene
                  0.671 0.689 0.591 0.590 0.703 0.603 0.545 0.565   0.620    9.64
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MI7140.M          Tue Sep 04 16:03:03 2012   RPT1
```

Initial Calibration Verification

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7140-ICV7140
Lab FileID: I176827.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VI7140\I176827.D Vial: 11
Acq On : 30 Aug 2012 4:32 pm Operator: SCOTTM
Sample : ICV7140-50 Inst : MSI
Misc : MS34716,VI7140,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7140.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Wed Sep 05 09:40:40 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 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)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	93	0.07	7.22
2		tertiary butyl alcohol	0.077	0.074	3.9	90	0.07	7.33
3		iso-butyl alcohol	0.027	0.029	-7.4	99	0.04	9.94
4		1,4-dioxane	0.007	0.007#	0.0	89	0.02	11.03
5	I	pentafluorobenzene	1.000	1.000	0.0	100	0.03	9.39
6		chlorodifluoromethane	0.319	0.334	-4.7	102	0.00	4.02
7		dichlorodifluoromethane	0.415	0.431	-3.9	93	0.00	4.00
8		chloromethane	0.352	0.327	7.1	93	0.00	4.34
9		vinyl chloride	0.378	0.383	-1.3	92	0.00	4.57
10		bromomethane	0.151	0.148	2.0	95	0.00	5.19
11		chloroethane	0.152	0.148	2.6	94	0.00	5.35
12		trichlorofluoromethane	0.412	0.423	-2.7	94	0.15	5.77
13		ethyl ether	0.132	0.123	6.8	99	0.13	6.16
14		acrolein	0.033	0.032	3.0	97	0.13	6.42
15		freon 113	0.226	0.224	0.9	96	0.13	6.53
16		1,1-dichloroethene	0.392	0.418	-6.6	96	0.14	6.57
17		acetone	0.019	0.016	15.8	89	0.12	6.64
18		iodomethane	0.462	0.491	-6.3	98	0.14	6.86
19		carbon disulfide	1.177	1.209	-2.7	97	0.14	6.98
20		methyl acetate	0.029	0.028	3.4	94	0.10	7.07
21		allyl chloride	0.146	0.154	-5.5	98	0.00	7.09
22		acetonitrile	0.061	0.059	3.3	97	0.11	7.08
23		methylene chloride	0.277	0.268	3.2	100	0.10	7.27
24		methyl tert butyl ether	0.687	0.633	-8.1	97	0.08	7.57
25		acrylonitrile	0.056	0.058	-3.6	99	0.08	7.59
26		trans-1,2-dichloroethene	0.292	0.278	4.8	97	0.09	7.63
27		hexane	0.312	0.375	-20.2#	116	0.07	7.90
28		di-isopropyl ether	0.796	0.794	0.3	98	0.05	8.13
29		vinyl acetate	0.150	0.155	-3.3	99	0.07	8.18
30		1,1-dichloroethane	0.460	0.476	-3.5	97	0.07	8.18
31		chloroprene	0.332	0.397	-19.6	109	0.07	8.28
32		ethyl tert-butyl ether	0.759	0.758	0.1	97	0.05	8.59
33		2-butanone	0.022	0.022	0.0	95	0.04	8.87
34		ethyl acetate	0.026	0.024	7.7	97	0.04	8.87
35		2,2-dichloropropane	0.437	0.448	-2.5	96	0.06	8.90
36		cis-1,2-dichloroethene	0.308	0.296	3.9	99	0.05	8.90
37		methacrylonitrile	0.068	0.068	0.0	97	0.04	9.15
38		propionitrile	0.022	0.022	0.0	96	0.05	8.98
39		bromochloromethane	0.125	0.131	-4.8	100	0.05	9.21
40		tetrahydrofuran	0.062	0.059	4.8	98	0.05	9.24
41		chloroform	0.481	0.482	-0.2	99	0.04	9.26

Initial Calibration Verification

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7140-ICV7140
Lab FileID: I176827.D

42		tert-Butyl Formate	0.182	0.193	-6.0	101	0.04	9.28
43	S	dibromofluoromethane (s)	0.285	0.272	4.6	100	0.04	9.46
44		1,1,1-trichloroethane	0.421	0.454	-7.8	97	0.04	9.50
45		cyclohexane	0.391	0.428	-9.5	95	0.05	9.57
46	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.03	10.30
47	s	1,2-dichloroethane-d4 (s	0.199	0.187	6.0	100	0.04	9.88
48		carbon tetrachloride	0.258	0.281	-8.9	97	0.04	9.70
49		1,1-dichloropropene	0.256	0.268	-4.7	97	0.04	9.68
50		isopropyl acetate	0.052	0.052	0.0	100	0.02	9.84
51		benzene	0.733	0.741	-1.1	98	0.04	9.94
52		2,2,4-trimethylpentane	0.653	0.695	-6.4	97	0.03	9.92
53		tert-amyl methyl ether	0.471	0.481	-2.1	101	0.02	9.95
54		1,2-dichloroethane	0.216	0.220	-1.9	99	0.03	9.96
55		heptane	0.128	0.156	-21.9#	110	0.02	10.08
56		n-butyl alcohol	0.004	0.003#	25.0#	89	0.00	10.42
57		trichloroethene	0.188	0.198	-5.3	98	0.03	10.64
58		ethyl acrylate	0.256	0.275	-7.4	103	0.03	10.85
59		methyl methacrylate	0.084	0.084	0.0	100	0.01	10.91
60		1,2-dichloropropane	0.172	0.174	-1.2	98	0.02	10.92
61		methylcyclohexane	0.301	0.344	-14.3	104	0.02	10.85
62		dibromomethane	0.095	0.098	-3.2	99	0.02	11.08
63		bromodichloromethane	0.231	0.239	-3.5	98	0.02	11.20
64		2-nitropropane	0.049	0.045	8.2	97	0.01	11.43
65		2-chloroethyl vinyl ether	0.060	0.062	-3.3	100	0.00	11.43
66		epichlorohydrin	0.012	0.011	8.3	98	0.01	11.56
67		cis-1,3-dichloropropene	0.275	0.283	-2.9	99	0.01	11.65
68		4-methyl-2-pentanone	0.046	0.045	2.2	95	0.00	11.74
			True	Calc.	% Drift			
69		3-methyl-1-butanol	1000.000	850.914	14.9	92	0.00	11.76
			AvgRF	CCRF	% Dev			
70		toluene	0.750	0.767	-2.3	98	0.01	12.01
71		trans-1,3-dichloropropene	0.236	0.241	-2.1	100	0.00	12.21
72		ethyl methacrylate	0.158	0.165	-4.4	99	0.00	12.19
73		1,1,2-trichloroethane	0.106	0.108	-1.9	99	0.00	12.43
74		2-hexanone	0.042	0.040	4.8	95	0.00	12.59
75	I	chlorobenzene-d5	1.000	1.000	0.0	102	-0.01	13.44
76	S	toluene-d8 (s)	0.877	0.859	2.1	99	0.01	11.94
77		tetrachloroethene	0.257	0.275	-7.0	99	0.00	12.59
78		1,3-dichloropropane	0.263	0.263	0.0	99	0.00	12.61
79		butyl acetate	0.100	0.096	4.0	98	-0.01	12.66
80		3,3-Dimethyl-1-Butanol	0.014	0.014	0.0	93	-0.01	12.76
81		dibromochloromethane	0.205	0.211	-2.9	99	0.00	12.88
82		1,2-dibromoethane	0.164	0.167	-1.8	99	0.00	13.02
83		chlorobenzene	0.594	0.601	-1.2	99	-0.01	13.47
84		1,1,1,2-tetrachloroethane	0.212	0.221	-4.2	99	0.00	13.54
85		ethylbenzene	1.025	1.049	-2.3	98	-0.01	13.52
86		m,p-xylene	0.387	0.400	-3.4	98	-0.02	13.63
87		o-xylene	0.379	0.387	-2.1	99	-0.02	14.04
88		styrene	0.599	0.619	-3.3	99	-0.02	14.05
89		bromoform	0.121	0.124	-2.5	99	-0.02	14.33
90	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	-0.07	15.74
91	S	4-bromofluorobenzene (s)	0.649	0.638	1.7	101	-0.03	14.59
92		isopropylbenzene	2.062	2.165	-5.0	98	-0.03	14.38
93		cyclohexanone	0.050	0.044	12.0	87	-0.02	14.56
94		1,1,2,2-tetrachloroethane	0.412	0.410	0.5	97	-0.04	14.69

Initial Calibration Verification

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7140-ICV7140
Lab FileID: I176827.D

95	trans-1,4-dichloro-2-bute	0.111	0.112	-0.9	98	0.00	14.73
96	1,2,3-trichloropropane	0.094	0.096	-2.1	97	-0.04	14.77
97	n-propylbenzene	2.421	2.479	-2.4	99	-0.03	14.78
98	bromobenzene	0.521	0.526	-1.0	100	-0.03	14.78
99	2-chlorotoluene	0.488	0.501	-2.7	99	-0.04	14.93
100	4-chlorotoluene	1.572	1.535	2.4	99	-0.04	15.03
101	1,3,5-trimethylbenzene	1.722	1.781	-3.4	99	-0.04	14.93
102	tert-butylbenzene	1.452	1.487	-2.4	96	0.00	15.27
103	pentachloroethane	0.312	0.332	-6.4	98	-0.05	15.37
104	1,2,4-trimethylbenzene	1.738	1.773	-2.0	100	-0.06	15.32
105	sec-butylbenzene	2.200	2.296	-4.4	98	0.00	15.49
106	p-isopropyltoluene	1.811	1.865	-3.0	99	-0.07	15.61
107	benzyl chloride	0.873	0.865	0.9	99	-0.08	15.88
108	1,3-dichlorobenzene	0.990	0.990	0.0	100	0.00	15.69
109	1,4-dichlorobenzene	1.003	0.986	1.7	100	-0.07	15.76
110	1,2-dichlorobenzene	0.907	0.897	1.1	99	-0.09	16.16
111	n-butylbenzene	0.973	1.006	-3.4	98	-0.09	16.02
112	hexachloroethane	0.364	0.371	-1.9	98	-0.11	16.41
113	1,2-dibromo-3-chloropropa	0.079	0.077	2.5	96	-0.15	16.93
114	1,3,5-Trichlorobenzene	0.828	0.848	-2.4	101	-0.16	17.10
115	1,2,4-trichlorobenzene	0.722	0.724	-0.3	102	-0.20	17.73
116	hexachlorobutadiene	0.449	0.489	-8.9	103	-0.20	17.84
117	naphthalene	1.246	1.240	0.5	101	-0.20	18.01
118	1,2,3-trichlorobenzene	0.620	0.622	-0.3	104	-0.22	18.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0

I176854a.D MI7140.M Wed Sep 05 09:42:06 2012 RPT1

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7141-CC7140
Lab FileID: I176851.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VI7141\I176851.D Vial: 11
Acq On : 31 Aug 2012 9:50 am Operator: SCOTTM
Sample : CC7140-50 Inst : MSI
Misc : MS34940,VI7141,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7140.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Aug 31 17:24:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 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)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	107	0.07	7.22
2		tertiary butyl alcohol	0.077	0.075	2.6	106	0.07	7.33
3		iso-butyl alcohol	0.027	0.026	3.7	102	0.04	9.94
4		1,4-dioxane	0.007	0.007#	0.0	103	0.02	11.03
5	I	pentafluorobenzene	1.000	1.000	0.0	96	0.02	9.38
6		chlorodifluoromethane	0.319	0.329	-3.1	97	0.23	4.02
7		dichlorodifluoromethane	0.415	0.462	-11.3	96	0.21	4.00
8		chloromethane	0.352	0.364	-3.4	99	0.22	4.33
9		vinyl chloride	0.378	0.421	-11.4	98	0.21	4.57
10		bromomethane	0.151	0.159	-5.3	99	0.19	5.18
11		chloroethane	0.152	0.161	-5.9	98	0.18	5.35
12		trichlorofluoromethane	0.412	0.448	-8.7	96	0.01	5.77
13		ethyl ether	0.132	0.137	-3.8	107	0.13	6.16
14		acrolein	0.033	0.038	-15.2	109	0.13	6.42
15		freon 113	0.226	0.240	-6.2	98	0.13	6.53
16		1,1-dichloroethene	0.392	0.460	-17.3	102	0.13	6.57
17		acetone	0.019	0.021	-10.5	113	0.12	6.63
18		iodomethane	0.462	0.526	-13.9	101	0.14	6.86
19		carbon disulfide	1.177	1.328	-12.8	103	0.14	6.98
20		methyl acetate	0.029	0.032	-10.3	105	0.10	7.07
21		allyl chloride	0.146	0.167	-14.4	102	0.10	7.08
22		acetonitrile	0.061	0.066	-8.2	104	0.10	7.08
23		methylene chloride	0.277	0.295	-6.5	106	0.10	7.27
24		methyl tert butyl ether	0.687	0.725	-5.5	106	0.08	7.57
25		acrylonitrile	0.056	0.066	-17.9	109	0.08	7.59
26		trans-1,2-dichloroethene	0.292	0.301	-3.1	101	0.09	7.63
27		hexane	0.312	0.335	-7.4	100	0.07	7.89
28		di-isopropyl ether	0.796	0.857	-7.7	102	0.05	8.13
29		vinyl acetate	0.150	0.168	-12.0	104	0.07	8.18
30		1,1-dichloroethane	0.460	0.521	-13.3	102	0.07	8.18
31		chloroprene	0.332	0.372	-12.0	99	0.07	8.28
32		ethyl tert-butyl ether	0.759	0.837	-10.3	103	0.05	8.59
33		2-butanone	0.022	0.025	-13.6	106	0.04	8.86
34		ethyl acetate	0.026	0.026	0.0	104	0.03	8.87
35		2,2-dichloropropane	0.437	0.491	-12.4	102	0.05	8.90
36		cis-1,2-dichloroethene	0.308	0.318	-3.2	102	0.05	8.90
37		methacrylonitrile	0.068	0.078	-14.7	107	0.04	9.15
38		propionitrile	0.022	0.026	-18.2	109	0.04	8.97
39		bromochloromethane	0.125	0.144	-15.2	105	0.05	9.21
40		tetrahydrofuran	0.062	0.068	-9.7	109	0.05	9.24
41		chloroform	0.481	0.521	-8.3	103	0.04	9.26

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7141-CC7140
Lab FileID: I176851.D

42		tert-Butyl Formate	0.182	0.206	-13.2	104	0.04	9.28
43	S	dibromofluoromethane (s)	0.285	0.283	0.7	100	0.03	9.45
44		1,1,1-trichloroethane	0.421	0.491	-16.6	101	0.04	9.50
45		cyclohexane	0.391	0.469	-19.9	100	0.05	9.57
46	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.02	10.30
47	s	1,2-dichloroethane-d4 (s	0.199	0.208	-4.5	107	0.03	9.87
48		carbon tetrachloride	0.258	0.303	-17.4	100	0.04	9.70
49		1,1-dichloropropene	0.256	0.290	-13.3	101	0.04	9.68
50		isopropyl acetate	0.052	0.058	-11.5	106	0.02	9.84
51		benzene	0.733	0.807	-10.1	103	0.03	9.94
52		2,2,4-trimethylpentane	0.653	0.744	-13.9	100	0.03	9.92
53		tert-amyl methyl ether	0.471	0.508	-7.9	103	0.02	9.95
54		1,2-dichloroethane	0.216	0.241	-11.6	104	0.03	9.96
55		heptane	0.128	0.146	-14.1	99	0.02	10.08
56		n-butyl alcohol	0.004	0.004#	0.0	106	0.00	10.42
57		trichloroethene	0.188	0.214	-13.8	101	0.03	10.64
58		ethyl acrylate	0.256	0.277	-8.2	100	0.03	10.85
59		methyl methacrylate	0.084	0.100	-19.0	113	0.00	10.90
60		1,2-dichloropropane	0.172	0.194	-12.8	105	0.02	10.92
61		methylcyclohexane	0.301	0.341	-13.3	99	0.02	10.85
62		dibromomethane	0.095	0.109	-14.7	106	0.02	11.08
63		bromodichloromethane	0.231	0.262	-13.4	104	0.02	11.20
64		2-nitropropane	0.049	0.052	-6.1	107	0.01	11.43
65		2-chloroethyl vinyl ether	0.060	0.072	-20.0	111	0.00	11.43
66		epichlorohydrin	0.012	0.013	-8.3	106	0.01	11.56
67		cis-1,3-dichloropropene	0.275	0.311	-13.1	104	0.01	11.65
68		4-methyl-2-pentanone	0.046	0.053	-15.2	108	0.00	11.74

			True	Calc.	% Drift			
69		3-methyl-1-butanol	1000.000	1014.173	-1.4	107	0.00	11.76

			AvgRF	CCRF	% Dev			
70		toluene	0.750	0.822	-9.6	101	0.00	12.01
71		trans-1,3-dichloropropene	0.236	0.263	-11.4	105	0.00	12.21
72		ethyl methacrylate	0.158	0.182	-15.2	105	0.00	12.19
73		1,1,2-trichloroethane	0.106	0.120	-13.2	105	0.00	12.43
74		2-hexanone	0.040	0.047	-17.5	105	0.00	12.59
75	I	chlorobenzene-d5	1.000	1.000	0.0	97	-0.01	13.44
76	S	toluene-d8 (s)	0.877	0.909	-3.6	100	0.01	11.94
77		tetrachloroethene	0.257	0.290	-12.8	99	0.00	12.59
78		1,3-dichloropropane	0.263	0.296	-12.5	106	0.00	12.61
79		butyl acetate	0.100	0.107	-7.0	104	-0.02	12.65
80		3,3-Dimethyl-1-Butanol	0.014	0.016	-14.3	105	-0.01	12.76
81		dibromochloromethane	0.205	0.231	-12.7	103	0.00	12.87
82		1,2-dibromoethane	0.164	0.184	-12.2	105	0.00	13.02
83		chlorobenzene	0.594	0.648	-9.1	101	-0.01	13.47
84		1,1,1,2-tetrachloroethane	0.212	0.239	-12.7	102	0.00	13.54
85		ethylbenzene	1.025	1.126	-9.9	100	-0.01	13.52
86		m,p-xylene	0.387	0.429	-10.9	100	-0.02	13.63
87		o-xylene	0.379	0.420	-10.8	102	-0.02	14.04
88		styrene	0.599	0.661	-10.4	100	-0.02	14.05
89		bromoform	0.121	0.135	-11.6	102	-0.02	14.33
90	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	-0.07	15.74
91	S	4-bromofluorobenzene (s)	0.649	0.647	0.3	97	-0.03	14.59
92		isopropylbenzene	2.062	2.330	-13.0	100	-0.03	14.38
93		cyclohexanone	0.050	0.051	-2.0	96	-0.03	14.56
94		1,1,2,2-tetrachloroethane	0.412	0.471	-14.3	105	-0.04	14.69

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7141-CC7140
Lab FileID: I176851.D

95	trans-1,4-dichloro-2-bute	0.111	0.127	-14.4	106	-0.03	14.73
96	1,2,3-trichloropropane	0.094	0.109	-16.0	105	-0.04	14.77
97	n-propylbenzene	2.421	2.669	-10.2	100	0.02	14.78
98	bromobenzene	0.521	0.557	-6.9	100	-0.03	14.78
99	2-chlorotoluene	0.488	0.535	-9.6	100	-0.04	14.93
100	4-chlorotoluene	1.572	1.650	-5.0	101	-0.04	15.03
101	1,3,5-trimethylbenzene	1.722	1.916	-11.3	100	-0.04	14.93
102	tert-butylbenzene	1.452	1.607	-10.7	98	-0.05	15.28
103	pentachloroethane	0.312	0.366	-17.3	103	-0.05	15.37
104	1,2,4-trimethylbenzene	1.738	1.892	-8.9	101	-0.06	15.32
105	sec-butylbenzene	2.200	2.482	-12.8	100	-0.06	15.49
106	p-isopropyltoluene	1.811	1.995	-10.2	100	-0.07	15.61
107	benzyl chloride	0.873	0.944	-8.1	102	-0.08	15.88
108	1,3-dichlorobenzene	0.990	1.048	-5.9	100	-0.06	15.69
109	1,4-dichlorobenzene	1.003	1.055	-5.2	102	-0.07	15.76
110	1,2-dichlorobenzene	0.907	0.966	-6.5	101	-0.09	16.16
111	n-butylbenzene	0.973	1.085	-11.5	100	-0.09	16.02
112	hexachloroethane	0.364	0.398	-9.3	100	-0.11	16.41
113	1,2-dibromo-3-chloropropa	0.079	0.088	-11.4	105	-0.15	16.93
114	1,3,5-Trichlorobenzene	0.828	0.904	-9.2	102	-0.16	17.10
115	1,2,4-trichlorobenzene	0.722	0.773	-7.1	103	-0.19	17.73
116	hexachlorobutadiene	0.449	0.515	-14.7	103	-0.20	17.84
117	naphthalene	1.246	1.339	-7.5	103	-0.20	18.01
118	1,2,3-trichlorobenzene	0.620	0.655	-5.6	104	-0.22	18.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0

I176854a.D MI7140.M Tue Sep 04 08:41:23 2012 RPT1

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7142-CC7140
Lab FileID: I176883.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VI7142\I176883.D Vial: 49
Acq On : 1 Sep 2012 9:07 am Operator: SCOTTM
Sample : CC7140-50 Inst : MSI
Misc : MS34987,VI7142,,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7140.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Sep 04 10:45:16 2012
Response via : Multiple Level Calibration

Min. RRF : 0.010 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)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	93	0.00	7.14
2		tertiary butyl alcohol	0.077	0.067	13.0	81	0.00	7.26
3		iso-butyl alcohol	0.027	0.026	3.7	90	0.00	9.91
4		1,4-dioxane	0.007	0.006#	14.3	80	0.00	11.01
5	I	pentafluorobenzene	1.000	1.000	0.0	99	0.00	9.36
6		chlorodifluoromethane	0.319	0.297	6.9	91	0.00	3.79
7		dichlorodifluoromethane	0.415	0.384	7.5	82	-0.02	3.77
8		chloromethane	0.352	0.331	6.0	93	0.00	4.11
9		vinyl chloride	0.378	0.355	6.1	85	0.00	4.35
10		bromomethane	0.151	0.132	12.6	84	0.00	4.99
11		chloroethane	0.152	0.130	14.5	82	0.00	5.16
12		trichlorofluoromethane	0.412	0.351	14.8	78	0.00	5.60
13		ethyl ether	0.132	0.116	12.1	93	0.00	6.02
14		acrolein	0.033	0.034	-3.0	102	0.00	6.28
15		freon 113	0.226	0.194	14.2	82	0.00	6.40
16		1,1-dichloroethene	0.392	0.406	-3.6	93	0.00	6.44
17		acetone	0.019	0.020	-5.3	112	-0.01	6.50
18		iodomethane	0.462	0.441	4.5	88	0.00	6.72
19		carbon disulfide	1.177	1.174	0.3	94	0.00	6.83
20		methyl acetate	0.029	0.026	10.3	88	0.00	6.96
21		allyl chloride	0.146	0.141	3.4	89	0.00	6.97
22		acetonitrile	0.061	0.061	0.0	100	0.00	6.97
23		methylene chloride	0.277	0.253	8.7	93	0.00	7.17
24		methyl tert butyl ether	0.687	0.601	12.5	91	0.00	7.49
25		acrylonitrile	0.056	0.056	0.0	96	0.00	7.51
26		trans-1,2-dichloroethene	0.292	0.257	12.0	89	0.00	7.53
27		hexane	0.312	0.293	6.1	90	0.00	7.82
28		di-isopropyl ether	0.796	0.815	-2.4	100	0.00	8.08
29		vinyl acetate	0.150	0.150	0.0	95	0.00	8.11
30		1,1-dichloroethane	0.460	0.468	-1.7	95	0.00	8.11
31		chloroprene	0.332	0.335	-0.9	92	0.00	8.21
32		ethyl tert-butyl ether	0.759	0.752	0.9	95	0.00	8.54
33		2-butanone	0.022	0.022	0.0	93	0.00	8.82
34		ethyl acetate	0.026	0.023	11.5	95	0.00	8.83
35		2,2-dichloropropane	0.437	0.420	3.9	90	0.00	8.84
36		cis-1,2-dichloroethene	0.308	0.269	12.7	90	0.00	8.85
37		methacrylonitrile	0.068	0.064	5.9	91	0.00	9.10
38		propionitrile	0.022	0.021	4.5	91	0.00	8.93
39		bromochloromethane	0.125	0.116	7.2	88	0.00	9.16
40		tetrahydrofuran	0.062	0.057	8.1	94	0.00	9.19
41		chloroform	0.481	0.451	6.2	92	0.00	9.22

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7142-CC7140
Lab FileID: I176883.D

42		tert-Butyl Formate	0.182	0.181	0.5	95	0.00	9.24
43	S	dibromofluoromethane (s)	0.285	0.294	-3.2	107	0.00	9.42
44		1,1,1-trichloroethane	0.421	0.416	1.2	88	0.00	9.46
45		cyclohexane	0.391	0.383	2.0	85	0.00	9.52
46	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.28
47	s	1,2-dichloroethane-d4 (s	0.199	0.210	-5.5	113	0.00	9.84
48		carbon tetrachloride	0.258	0.250	3.1	87	0.00	9.66
49		1,1-dichloropropene	0.256	0.244	4.7	89	0.00	9.64
50		isopropyl acetate	0.052	0.050	3.8	98	0.00	9.83
51		benzene	0.733	0.689	6.0	92	0.00	9.90
52		2,2,4-trimethylpentane	0.653	0.634	2.9	90	0.00	9.89
53		tert-amyl methyl ether	0.471	0.433	8.1	92	0.00	9.93
54		1,2-dichloroethane	0.216	0.202	6.5	92	0.00	9.93
55		heptane	0.128	0.123	3.9	87	0.00	10.06
56		n-butyl alcohol	0.004	0.003#	25.0#	81	0.00	10.42
57		trichloroethene	0.188	0.179	4.8	89	0.00	10.62
58		ethyl acrylate	0.256	0.231	9.8	87	0.00	10.83
59		methyl methacrylate	0.084	0.074	11.9	89	0.00	10.89
60		1,2-dichloropropane	0.172	0.166	3.5	95	0.00	10.89
61		methylcyclohexane	0.301	0.278	7.6	85	0.00	10.83
62		dibromomethane	0.095	0.088	7.4	90	0.00	11.05
63		bromodichloromethane	0.231	0.214	7.4	89	0.00	11.18
64		2-nitropropane	0.049	0.040	18.4	87	0.00	11.42
65		2-chloroethyl vinyl ether	0.060	0.064	-6.7	104	0.00	11.43
66		epichlorohydrin	0.012	0.010#	16.7	88	0.00	11.56
67		cis-1,3-dichloropropene	0.275	0.254	7.6	89	0.00	11.65
68		4-methyl-2-pentanone	0.046	0.041	10.9	88	0.00	11.74
			True	Calc.	% Drift			
69		3-methyl-1-butanol	1000.000	712.472	28.8#	77	0.00	11.76
			AvgRF	CCRF	% Dev			
70		toluene	0.750	0.661	11.9	85	0.00	12.00
71		trans-1,3-dichloropropene	0.236	0.210	11.0	88	0.00	12.21
72		ethyl methacrylate	0.158	0.141	10.8	86	0.00	12.19
73		1,1,2-trichloroethane	0.106	0.094	11.3	87	0.00	12.42
74		2-hexanone	0.040	0.037	7.5	88	0.00	12.60
75	I	chlorobenzene-d5	1.000	1.000	0.0	94	0.00	13.45
76	S	toluene-d8 (s)	0.877	0.964	-9.9	103	0.00	11.93
77		tetrachloroethene	0.257	0.236	8.2	79	0.00	12.59
78		1,3-dichloropropane	0.263	0.249	5.3	87	0.00	12.61
79		butyl acetate	0.100	0.096	4.0	91	0.00	12.67
80		3,3-Dimethyl-1-Butanol	0.014	0.013	7.1	81	0.00	12.77
81		dibromochloromethane	0.205	0.186	9.3	81	0.00	12.87
82		1,2-dibromoethane	0.164	0.148	9.8	82	0.00	13.02
83		chlorobenzene	0.594	0.531	10.6	81	0.00	13.48
84		1,1,1,2-tetrachloroethane	0.212	0.194	8.5	81	0.00	13.54
85		ethylbenzene	1.025	0.952	7.1	83	0.00	13.53
86		m,p-xylene	0.387	0.354	8.5	80	0.00	13.64
87		o-xylene	0.379	0.341	10.0	81	0.00	14.06
88		styrene	0.599	0.539	10.0	79	0.00	14.07
89		bromoform	0.121	0.105	13.2	77	0.00	14.34
90	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	15.81
91	S	4-bromofluorobenzene (s)	0.649	0.634	2.3	97	0.00	14.61
92		isopropylbenzene	2.062	1.833	11.1	80	0.00	14.40
93		cyclohexanone	0.050	0.055	-10.0	106	0.00	14.58
94		1,1,2,2-tetrachloroethane	0.412	0.360	12.6	82	0.00	14.73

Continuing Calibration Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VI7142-CC7140
Lab FileID: I176883.D

95	trans-1,4-dichloro-2-bute	0.111	0.100	9.9	85	0.00	14.77
96	1,2,3-trichloropropane	0.094	0.080	14.9	79	0.00	14.80
97	n-propylbenzene	2.421	2.148	11.3	83	0.00	14.81
98	bromobenzene	0.521	0.432	17.1	80	0.00	14.81
99	2-chlorotoluene	0.488	0.421	13.7	80	0.00	14.97
100	4-chlorotoluene	1.572	1.344	14.5	84	0.00	15.07
101	1,3,5-trimethylbenzene	1.722	1.531	11.1	82	0.00	14.97
102	tert-butylbenzene	1.452	1.301	10.4	82	0.00	15.33
103	pentachloroethane	0.312	0.288	7.7	83	0.00	15.42
104	1,2,4-trimethylbenzene	1.738	1.541	11.3	84	0.00	15.37
105	sec-butylbenzene	2.200	2.027	7.9	84	0.00	15.55
106	p-isopropyltoluene	1.811	1.627	10.2	83	0.00	15.67
107	benzyl chloride	0.873	0.800	8.4	89	0.00	15.96
108	1,3-dichlorobenzene	0.990	0.861	13.0	84	0.00	15.75
109	1,4-dichlorobenzene	1.003	0.867	13.6	85	0.00	15.83
110	1,2-dichlorobenzene	0.907	0.808	10.9	86	0.00	16.25
111	n-butylbenzene	0.973	0.922	5.2	87	0.00	16.11
112	hexachloroethane	0.364	0.344	5.5	88	0.00	16.52
113	1,2-dibromo-3-chloropropa	0.079	0.068	13.9	82	0.00	17.08
114	1,3,5-Trichlorobenzene	0.828	0.767	7.4	88	0.00	17.26
115	1,2,4-trichlorobenzene	0.722	0.643	10.9	87	0.00	17.93
116	hexachlorobutadiene	0.449	0.423	5.8	86	0.00	18.04
117	naphthalene	1.246	1.120	10.1	88	0.00	18.22
118	1,2,3-trichlorobenzene	0.620	0.542	12.6	88	0.00	18.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0

I176854a.D MI7140.M Tue Sep 04 12:09:22 2012 RPT1

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176859.D
Acq On : 31 Aug 2012 7:53 pm
Operator : SCOTTM
Sample : JB15104-1,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 11:36:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Sep 05 09:40:40 2012
Response via : Initial Calibration

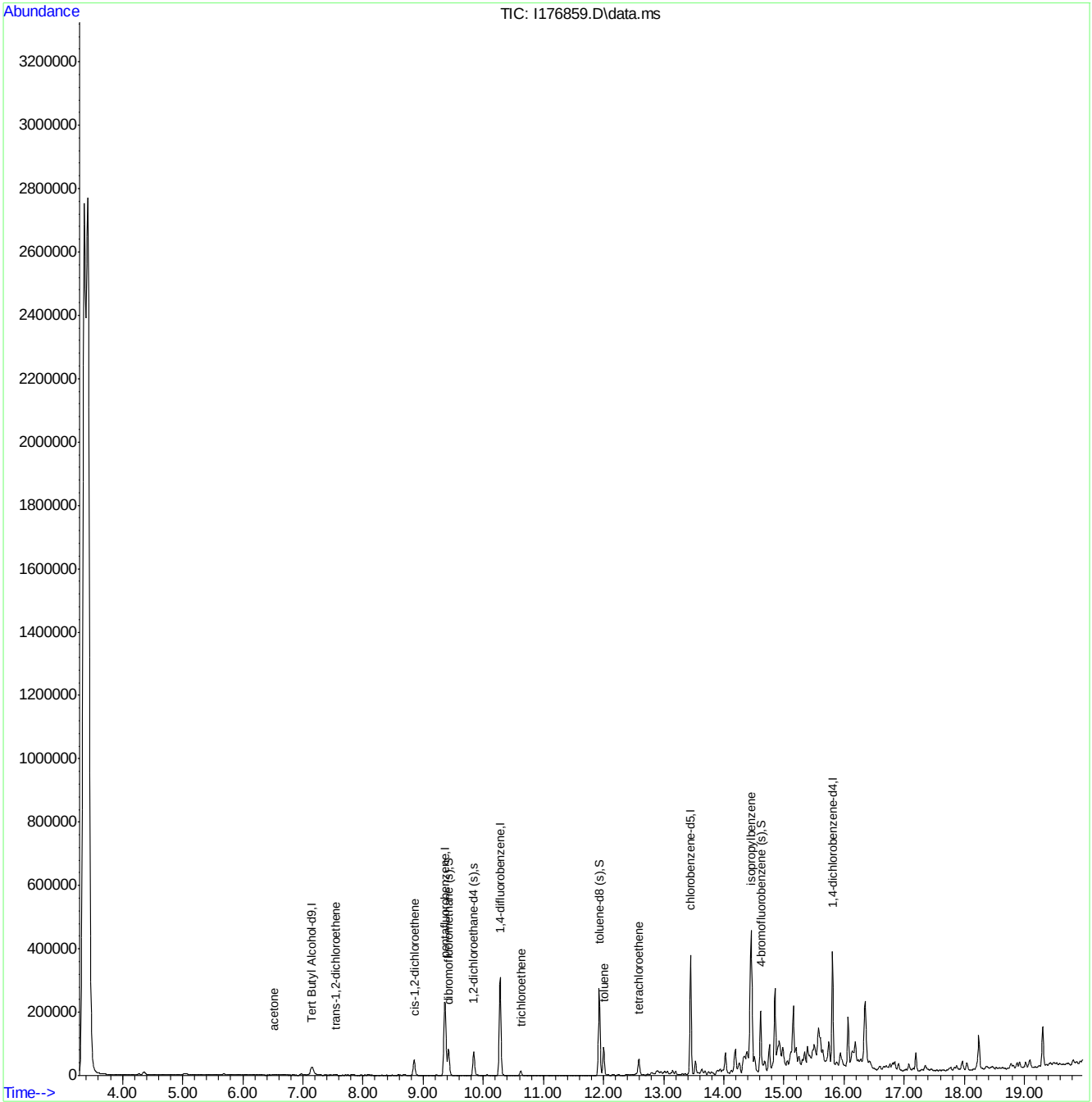
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.152	65	57489	50.00	ug/L	0.00
5) pentafluorobenzene	9.365	168	198779	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.280	114	285479	50.00	ug/L	0.00
75) chlorobenzene-d5	13.450	117	202293	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.808	152	94282	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.422	113	58110	51.28	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.56%			
47) 1,2-dichloroethane-d4...	9.841	65	59852	52.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.20%			
76) toluene-d8 (s)	11.928	98	194603	54.82	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 109.64%			
91) 4-bromofluorobenzene (s)	14.611	95	60835	49.74	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.48%			
Target Compounds						Qvalue
17) acetone	6.514	58	907	11.98	ug/L	89
26) trans-1,2-dichloroethene	7.539	96	2080	1.79	ug/L	91
36) cis-1,2-dichloroethene	8.852	96	24901	20.35	ug/L	89
57) trichloroethene	10.625	95	5418	5.06	ug/L	97
70) toluene	12.001	91	67000	15.65	ug/L	99
77) tetrachloroethene	12.587	166	14026	13.50	ug/L	99
92) isopropylbenzene	14.449	105	3825	0.98	ug/L	70

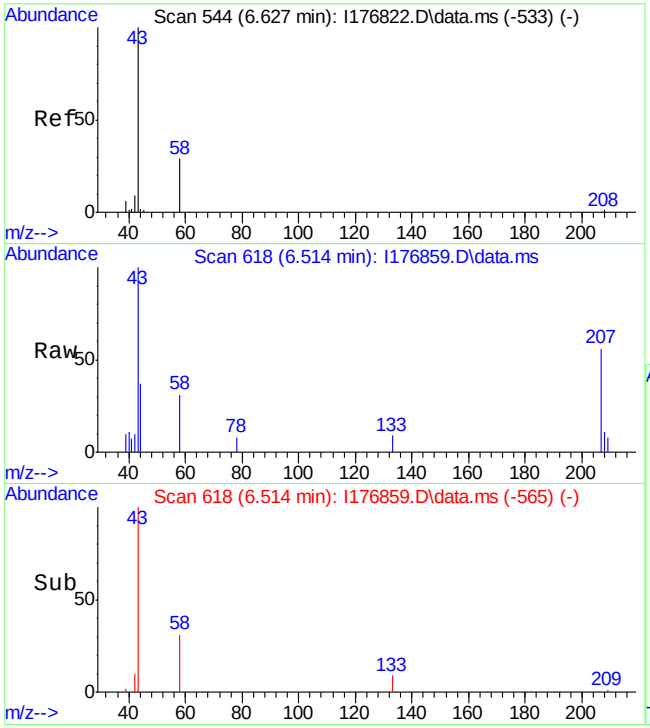
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176859.D
Acq On : 31 Aug 2012 7:53 pm
Operator : SCOTTM
Sample : JB15104-1,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 11:36:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Sep 05 09:40:40 2012
Response via : Initial Calibration

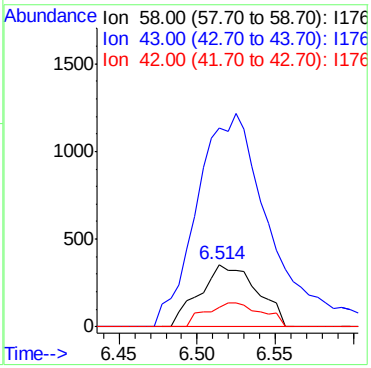


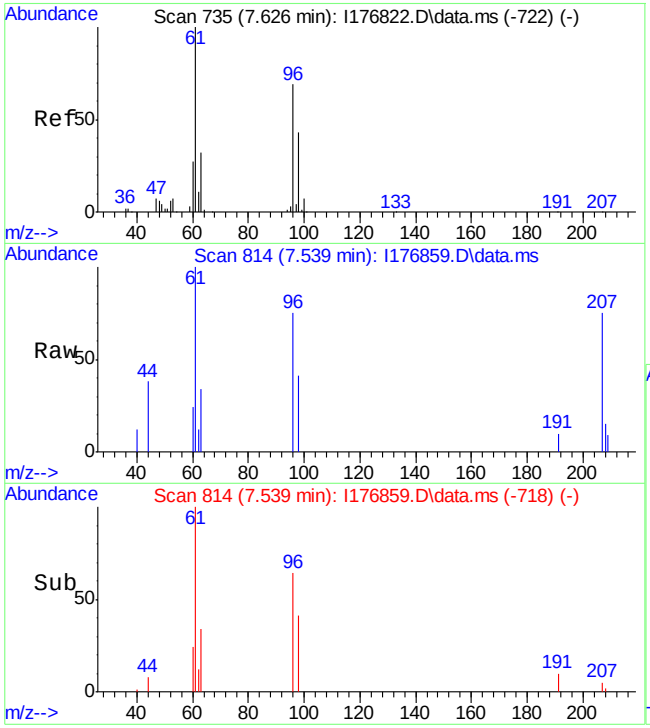


#17
acetone
Concen: 11.98 ug/L
RT: 6.514 min Scan# 618
Delta R.T. -0.003 min
Lab File: I176859.D
Acq: 31 Aug 2012 7:53 pm

Tgt Ion: 58 Resp: 907

Ion	Ratio	Lower	Upper
58	100		
43	318.3	270.0	330.0
42	30.9	0.0	38.8

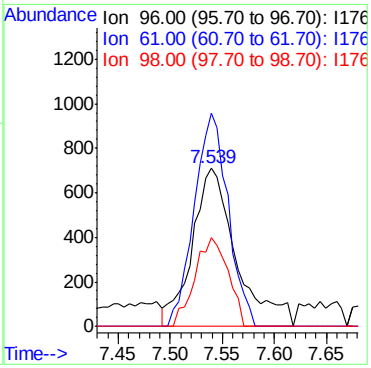


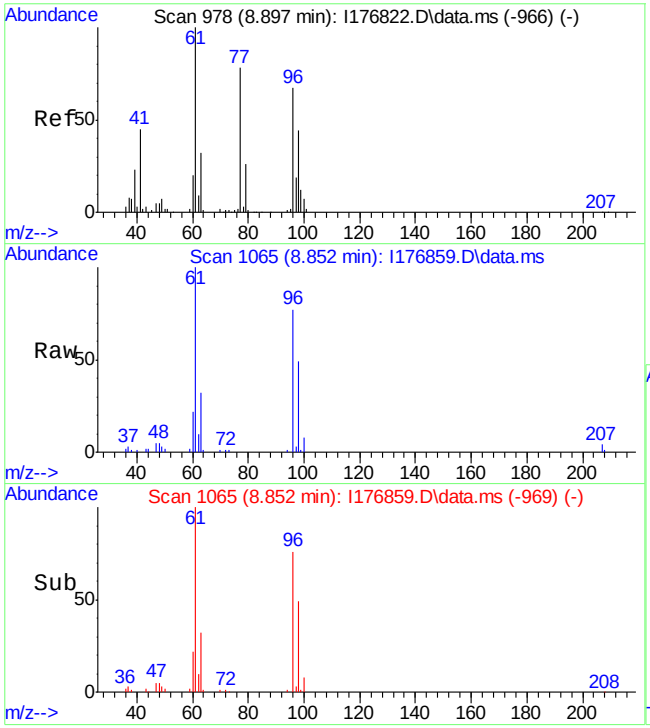


#26
trans-1,2-dichloroethene
Concen: 1.79 ug/L
RT: 7.539 min Scan# 814
Delta R.T. 0.002 min
Lab File: I176859.D
Acq: 31 Aug 2012 7:53 pm

Tgt Ion: 96 Resp: 2080

Ion	Ratio	Lower	Upper
96	100		
61	134.2	101.7	188.9
98	55.7	44.0	81.6

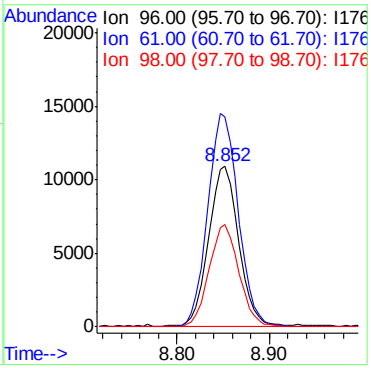


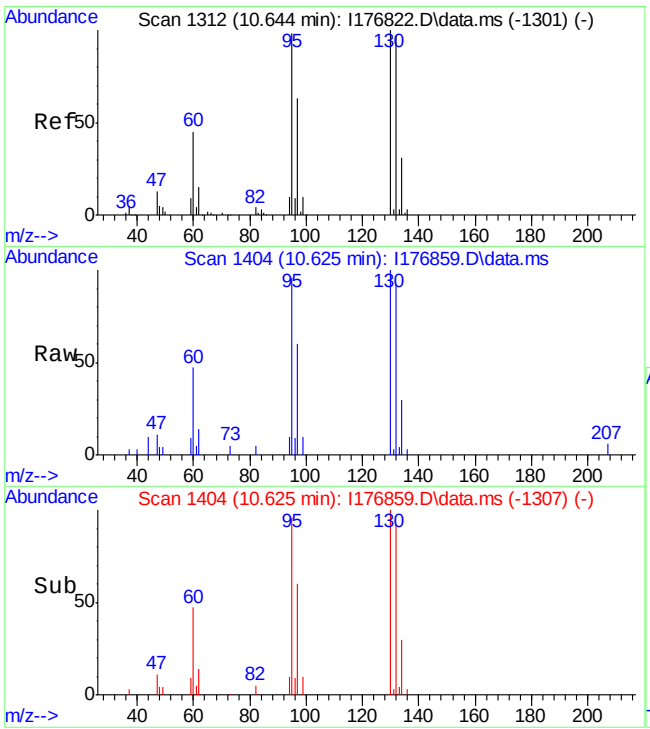


#36
cis-1,2-dichloroethene
Concen: 20.35 ug/L
RT: 8.852 min Scan# 1065
Delta R.T. 0.002 min
Lab File: I176859.D
Acq: 31 Aug 2012 7:53 pm

Tgt Ion: 96 Resp: 24901

Ion	Ratio	Lower	Upper
96	100		
61	130.3	119.7	179.7
98	63.5	35.5	95.5

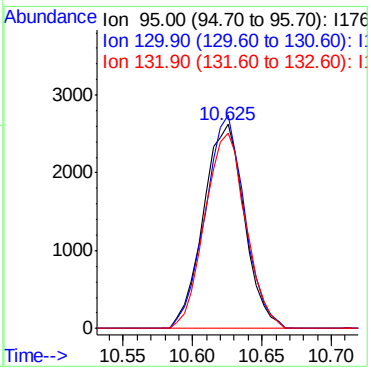


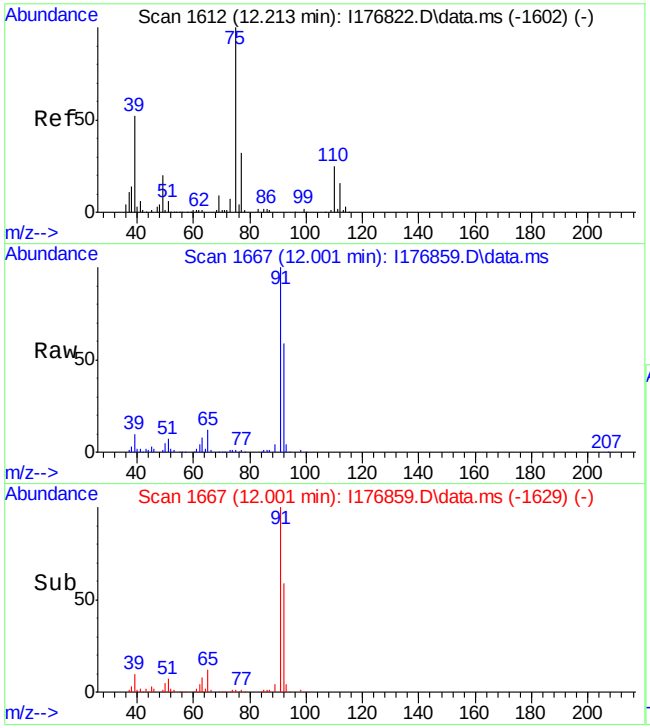


#57
trichloroethene
Concen: 5.06 ug/L
RT: 10.625 min Scan# 1404
Delta R.T. 0.007 min
Lab File: I176859.D
Acq: 31 Aug 2012 7:53 pm

Tgt Ion: 95 Resp: 5418

Ion	Ratio	Lower	Upper
95	100		
130	104.3	71.9	131.9
132	95.8	68.5	128.5

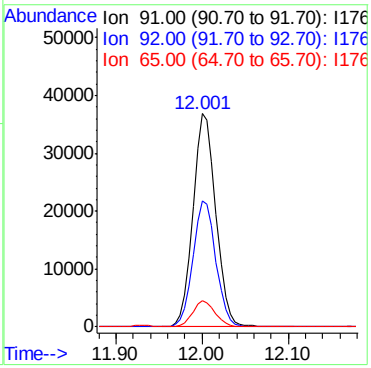


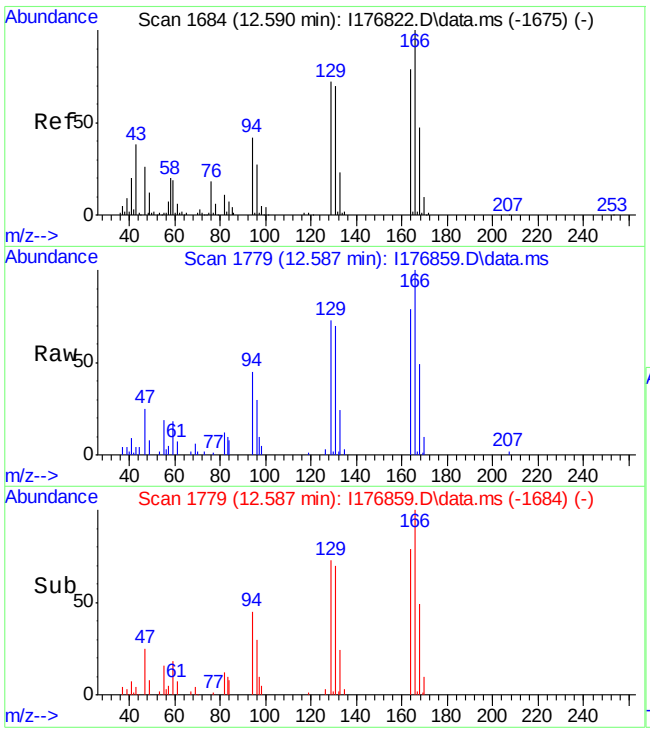


#70
toluene
Concen: 15.65 ug/L
RT: 12.001 min Scan# 1667
Delta R.T. -0.003 min
Lab File: I176859.D
Acq: 31 Aug 2012 7:53 pm

Tgt Ion: 91 Resp: 67000

Ion	Ratio	Lower	Upper
91	100		
92	59.1	38.7	78.7
65	12.0	0.0	31.6

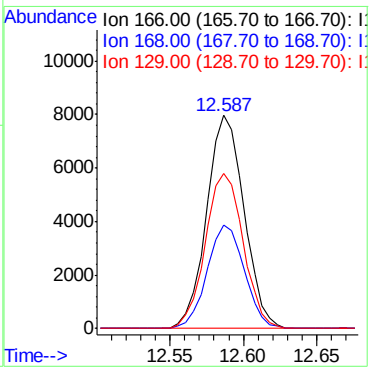


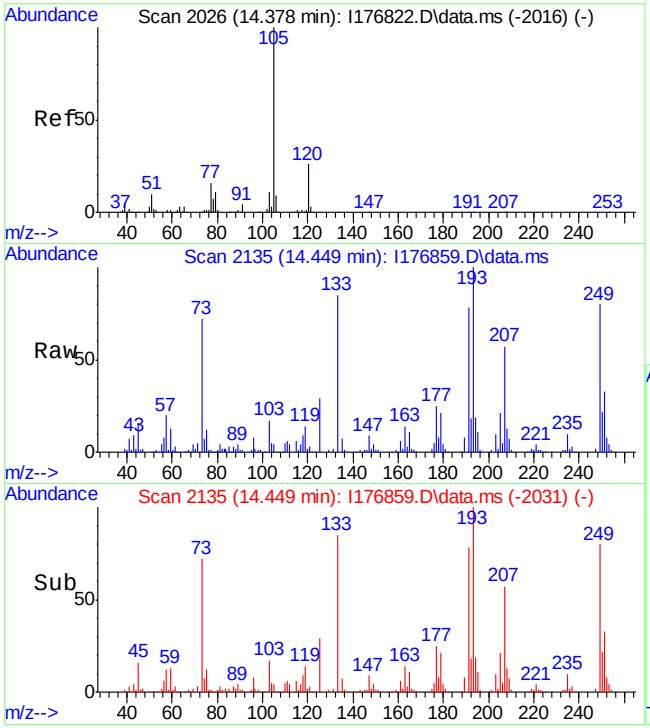


#77
tetrachloroethene
Concen: 13.50 ug/L
RT: 12.587 min Scan# 1779
Delta R.T. -0.003 min
Lab File: I176859.D
Acq: 31 Aug 2012 7:53 pm

Tgt Ion:166 Resp: 14026

Ion	Ratio	Lower	Upper
166	100		
168	48.6	17.4	77.4
129	72.8	42.3	102.3

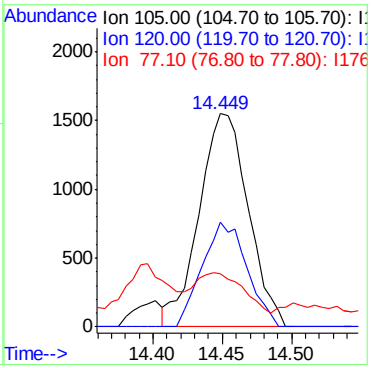




#92
isopropylbenzene
Concen: 0.98 ug/L
RT: 14.449 min Scan# 2135
Delta R.T. 0.044 min
Lab File: I176859.D
Acq: 31 Aug 2012 7:53 pm

Tgt Ion:105 Resp: 3825

Ion	Ratio	Lower	Upper
105	100		
120	49.2	0.0	56.1
77	13.8	0.0	46.1



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176888.D
Acq On : 1 Sep 2012 1:45 pm
Operator : SCOTTM
Sample : JB15104-2,VTCL11n
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Sep 04 11:06:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 17:24:45 2012
Response via : Initial Calibration

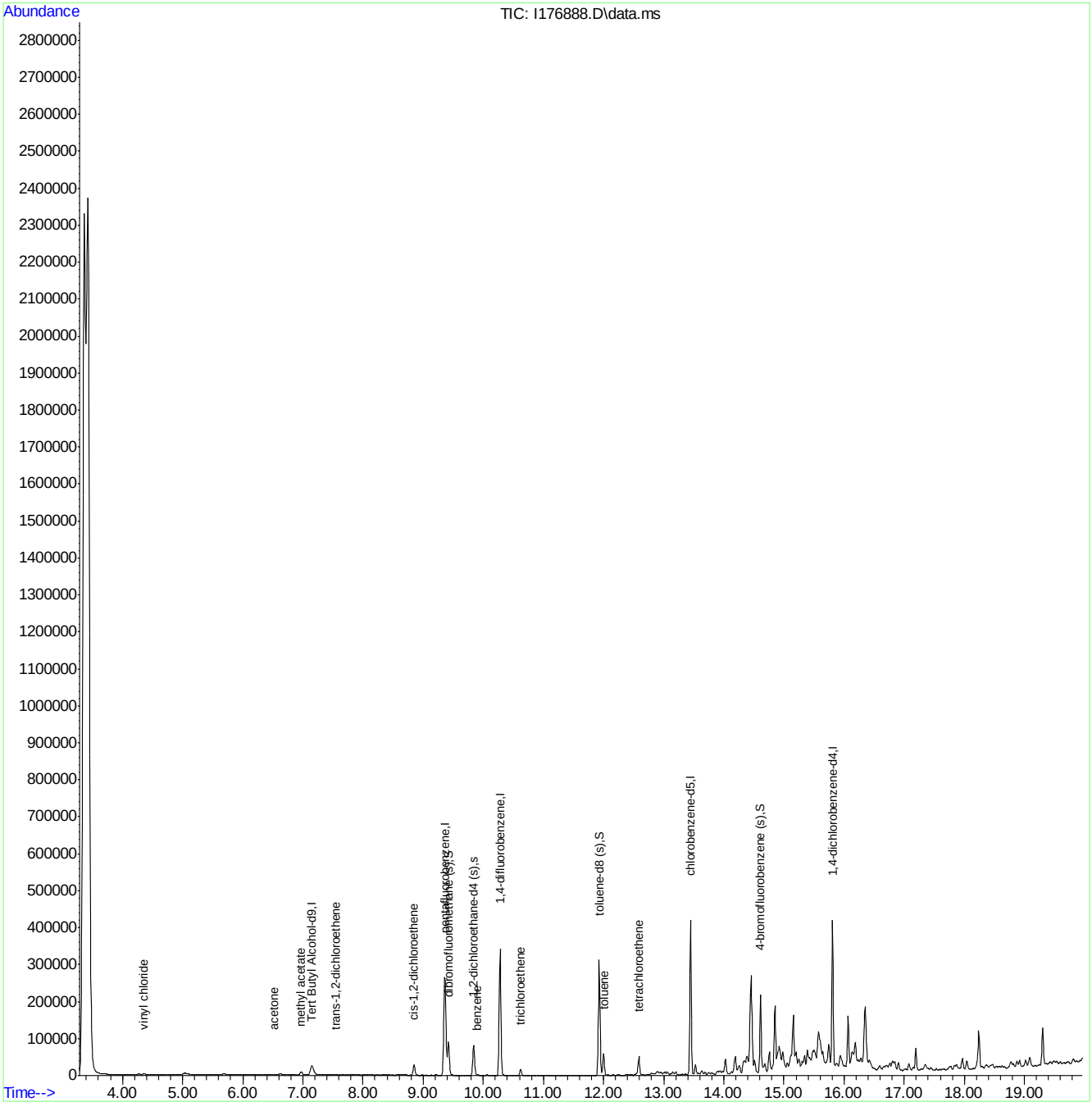
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.152	65	54129	50.00	ug/L	0.00
5) pentafluorobenzene	9.359	168	222212	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.280	114	315476	50.00	ug/L	0.00
75) chlorobenzene-d5	13.450	117	222186	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.808	152	100153	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.417	113	63556	50.17	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.34%			
47) 1,2-dichloroethane-d4...	9.841	65	65997	52.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.96%			
76) toluene-d8 (s)	11.928	98	214968	55.14	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 110.28%			
91) 4-bromofluorobenzene (s)	14.611	95	67234	51.75	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 103.50%			
Target Compounds						Qvalue
9) vinyl chloride	4.354	62	4022	2.39	ug/L	99
17) acetone	6.525	58	914	10.80	ug/L	84
20) methyl acetate	6.969	74	3372	26.25	ug/L #	77
26) trans-1,2-dichloroethene	7.534	96	1670	1.29	ug/L	76
36) cis-1,2-dichloroethene	8.852	96	14612	10.68	ug/L	93
51) benzene	9.909	78	1324	0.29	ug/L	96
57) trichloroethene	10.620	95	6170	5.21	ug/L	94
70) toluene	12.001	91	42796	9.04	ug/L	99
77) tetrachloroethene	12.587	166	14116	12.37	ug/L	97

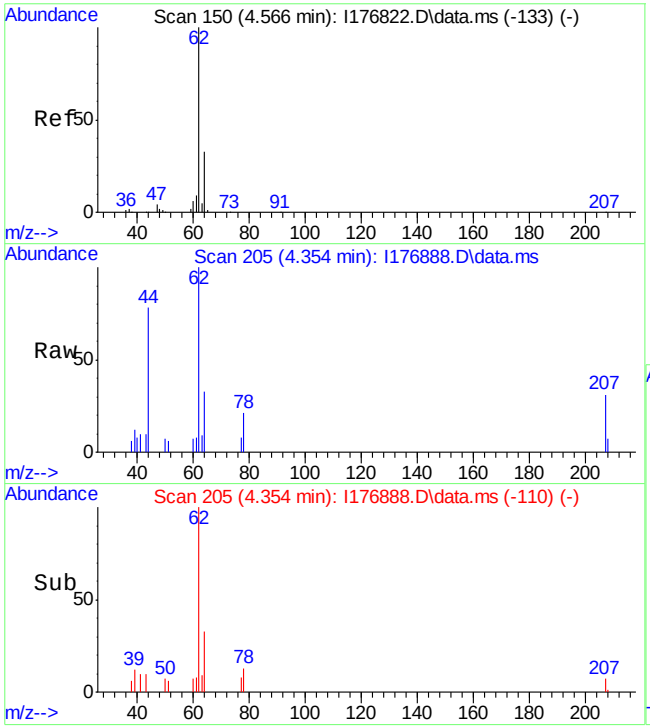
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176888.D
Acq On : 1 Sep 2012 1:45 pm
Operator : SCOTTM
Sample : JB15104-2,VTCL11n
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Sep 04 11:06:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 17:24:45 2012
Response via : Initial Calibration

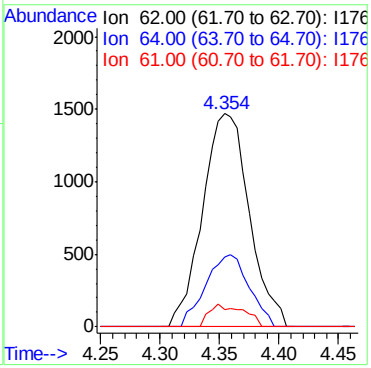


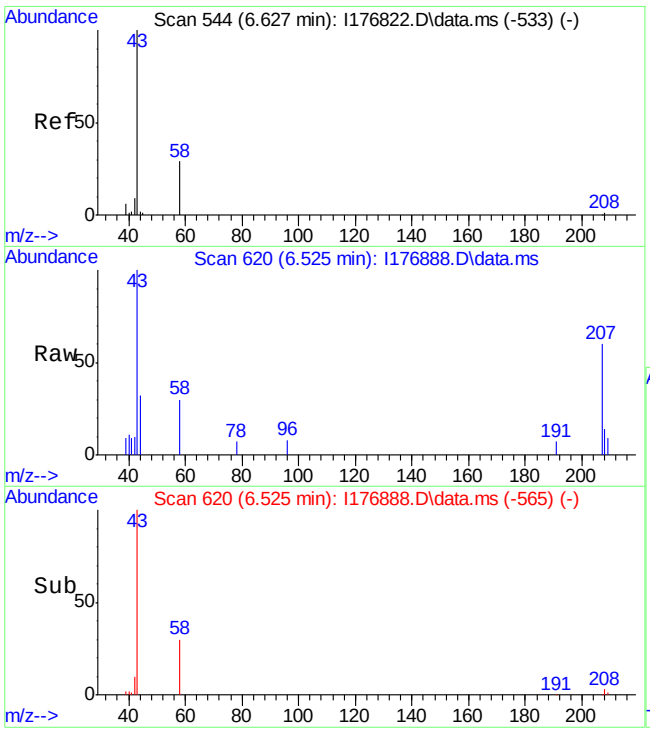


#9
vinyl chloride
Concen: 2.39 ug/L
RT: 4.354 min Scan# 205
Delta R.T. -0.003 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 62 Resp: 4022

Ion	Ratio	Lower	Upper
62	100		
64	32.8	2.8	62.8
61	7.8	0.0	38.9

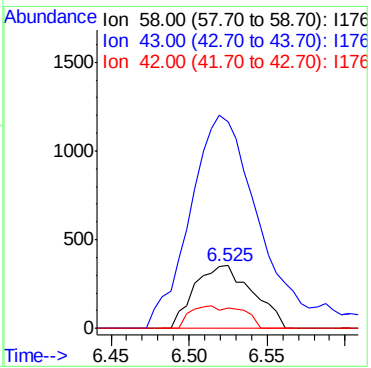


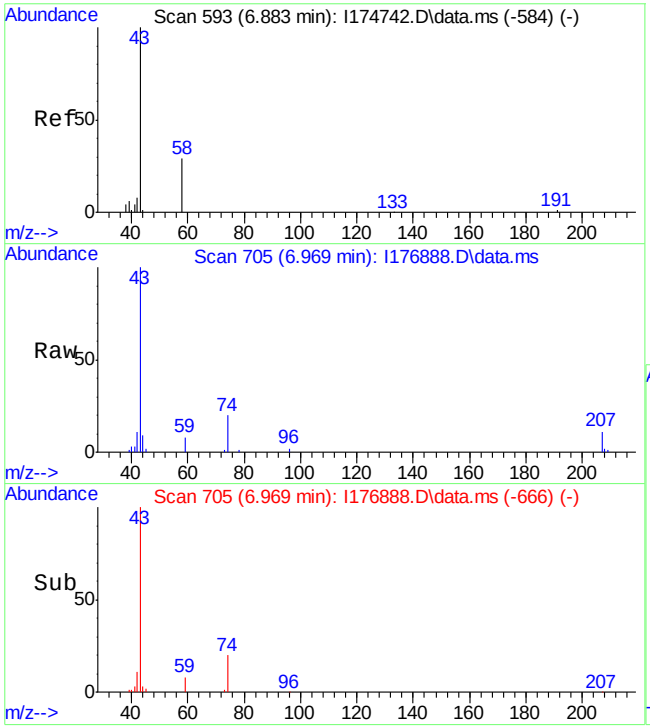


#17
acetone
Concen: 10.80 ug/L
RT: 6.525 min Scan# 620
Delta R.T. 0.007 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 58 Resp: 914

Ion	Ratio	Lower	Upper
58	100		
43	329.2	270.0	330.0
42	33.1	0.0	38.8

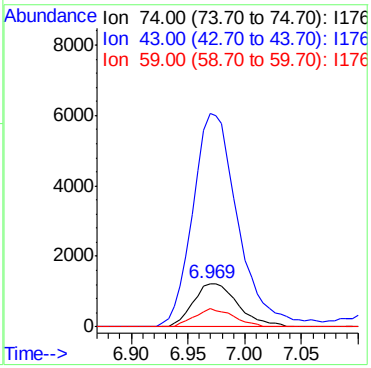


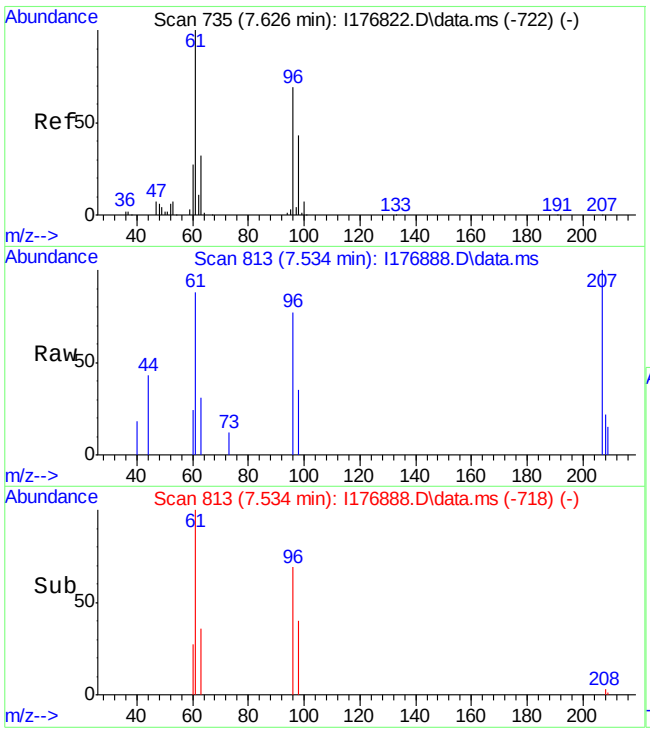


#20
methyl acetate
Concen: 26.25 ug/L
RT: 6.969 min Scan# 705
Delta R.T. 0.002 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 74 Resp: 3372

Ion	Ratio	Lower	Upper
74	100		
43	499.9	417.4	457.4#
59	36.4	15.9	55.9

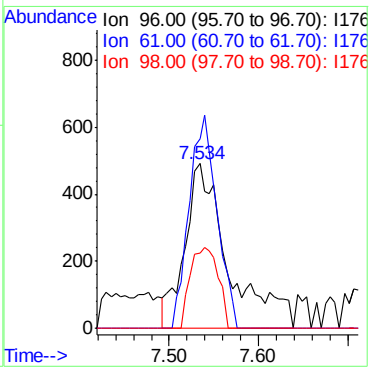


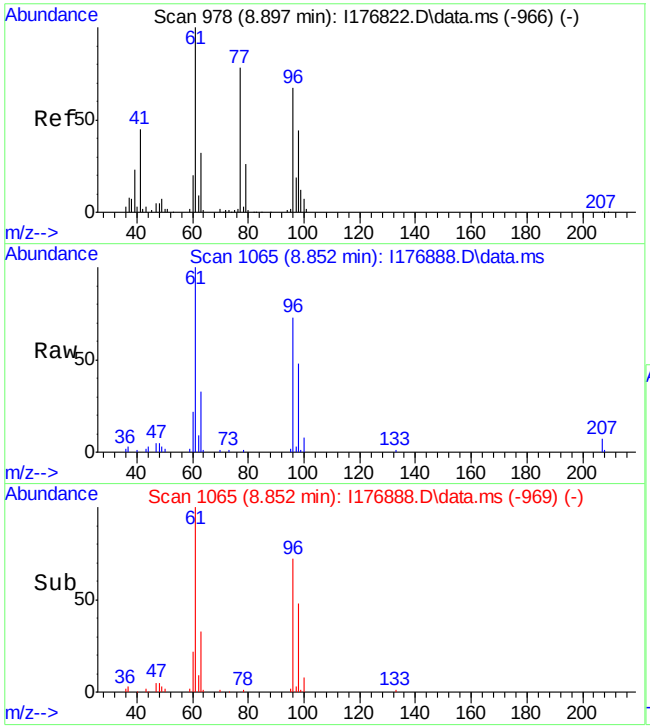


#26
trans-1,2-dichloroethene
Concen: 1.29 ug/L
RT: 7.534 min Scan# 813
Delta R.T. -0.003 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 96 Resp: 1670

Ion	Ratio	Lower	Upper
96	100		
61	115.3	101.7	188.9
98	45.6	44.0	81.6

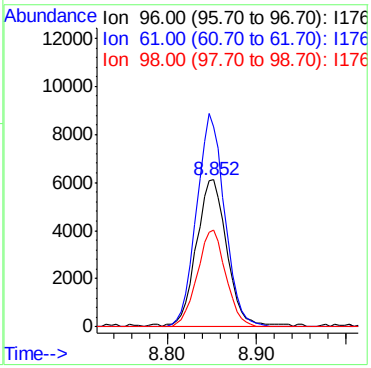


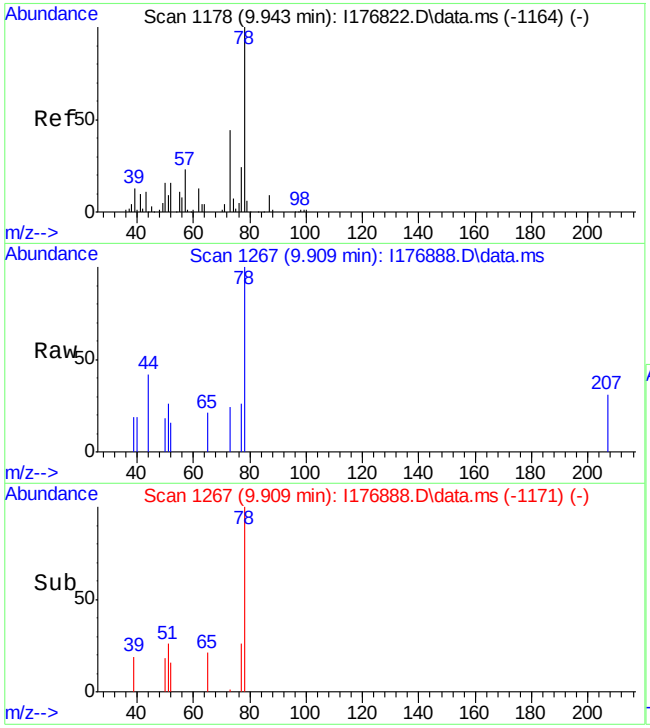


#36
cis-1,2-dichloroethene
Concen: 10.68 ug/L
RT: 8.852 min Scan# 1065
Delta R.T. 0.002 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 96 Resp: 14612

Ion	Ratio	Lower	Upper
96	100		
61	136.2	119.7	179.7
98	65.4	35.5	95.5

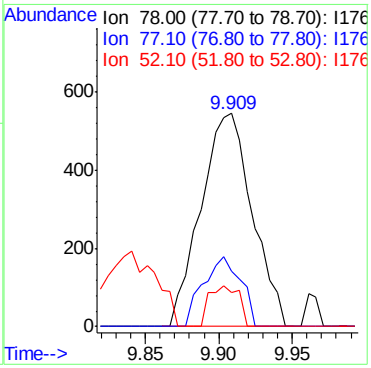


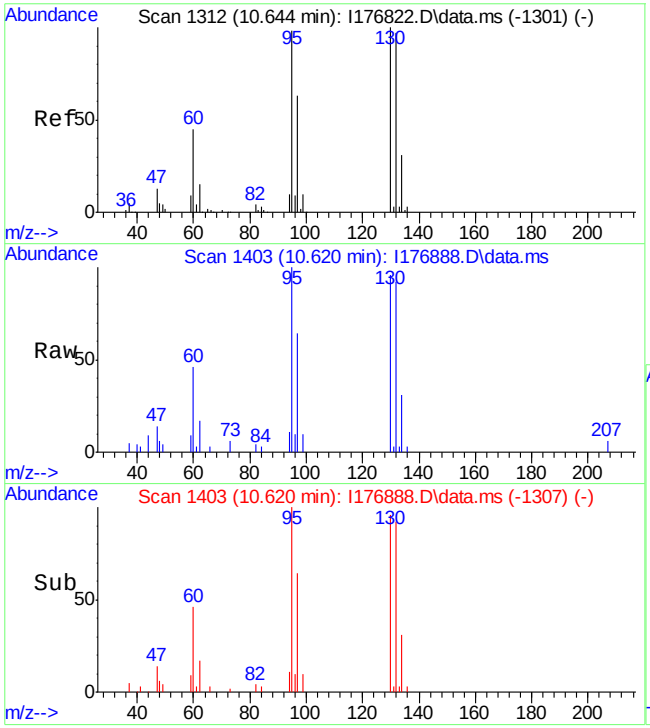


#51
benzene
Concen: 0.29 ug/L
RT: 9.909 min Scan# 1267
Delta R.T. 0.002 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 78 Resp: 1324

Ion	Ratio	Lower	Upper
78	100		
77	26.2	0.0	53.8
52	16.1	0.0	45.5

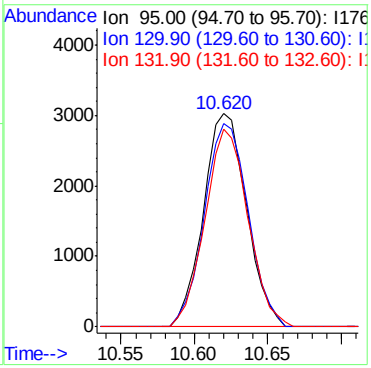


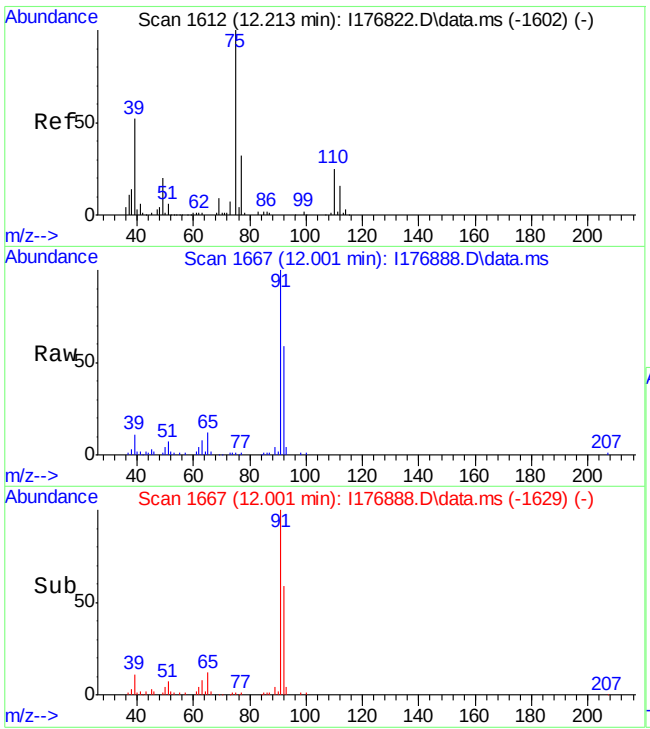


#57
trichloroethene
Concen: 5.21 ug/L
RT: 10.620 min Scan# 1403
Delta R.T. 0.002 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 95 Resp: 6170

Ion	Ratio	Lower	Upper
95	100		
130	95.5	71.9	131.9
132	92.4	68.5	128.5

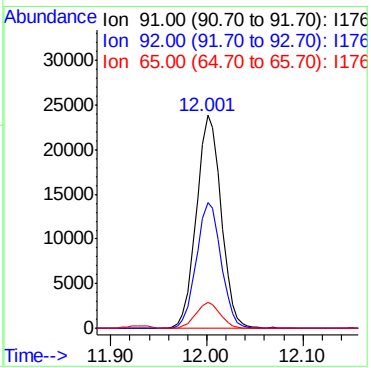


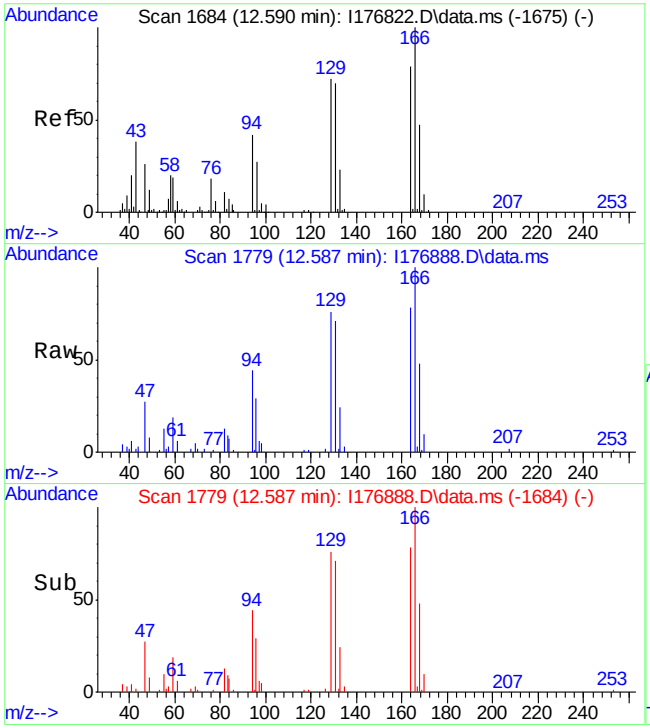


#70
toluene
Concen: 9.04 ug/L
RT: 12.001 min Scan# 1667
Delta R.T. -0.003 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion: 91 Resp: 42796

Ion	Ratio	Lower	Upper
91	100		
92	59.0	38.7	78.7
65	12.1	0.0	31.6

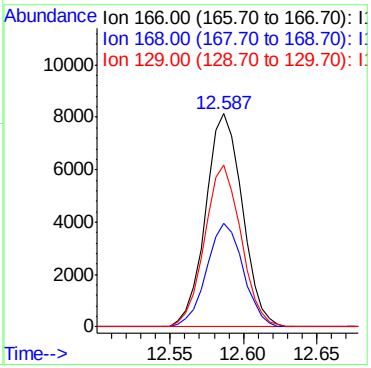




#77
tetrachloroethene
Concen: 12.37 ug/L
RT: 12.587 min Scan# 1779
Delta R.T. -0.003 min
Lab File: I176888.D
Acq: 1 Sep 2012 1:45 pm

Tgt Ion:166 Resp: 14116

Ion	Ratio	Lower	Upper
166	100		
168	48.3	17.4	77.4
129	75.8	42.3	102.3



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87179.D
Acq On : 7 Sep 2012 6:22 pm
Operator : tarar1
Sample : jb15104-3
Misc : ms34998,v3b4068,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 12:43:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.90	65	86864	500.00	ug/L	-0.03
5) pentafluorobenzene	10.37	168	210867	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.33	114	262565	50.00	ug/L	0.00
93) chlorobenzene-d5	14.66	117	242318	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	146344	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.41	113	75019	48.77	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 97.54%			
56) 1,2-dichloroethane-d4 (s)	10.85	65	96654	43.35	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 86.70%			
85) toluene-d8 (s)	13.05	98	269044	53.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 106.50%			
111) 4-bromofluorobenzene (s)	15.90	95	104449	47.74	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 95.48%			

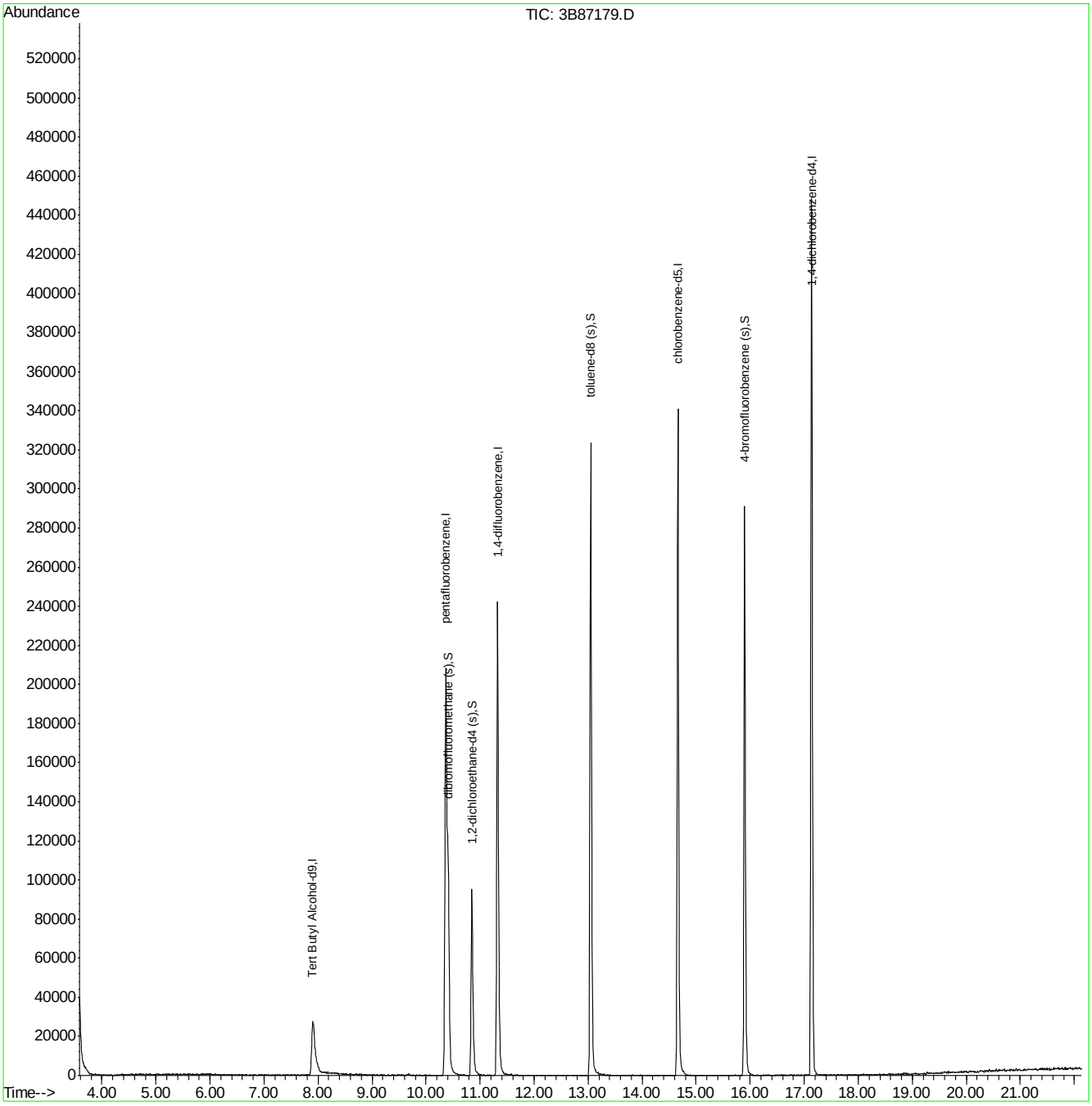
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87179.D
Acq On : 7 Sep 2012 6:22 pm
Operator : tarar1
Sample : jb15104-3
Misc : ms34998,v3b4068,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 12:43:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87180.D
Acq On : 7 Sep 2012 6:52 pm
Operator : tarar1
Sample : jb15104-4
Misc : ms34998,v3b4068,w,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 10 12:44:26 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

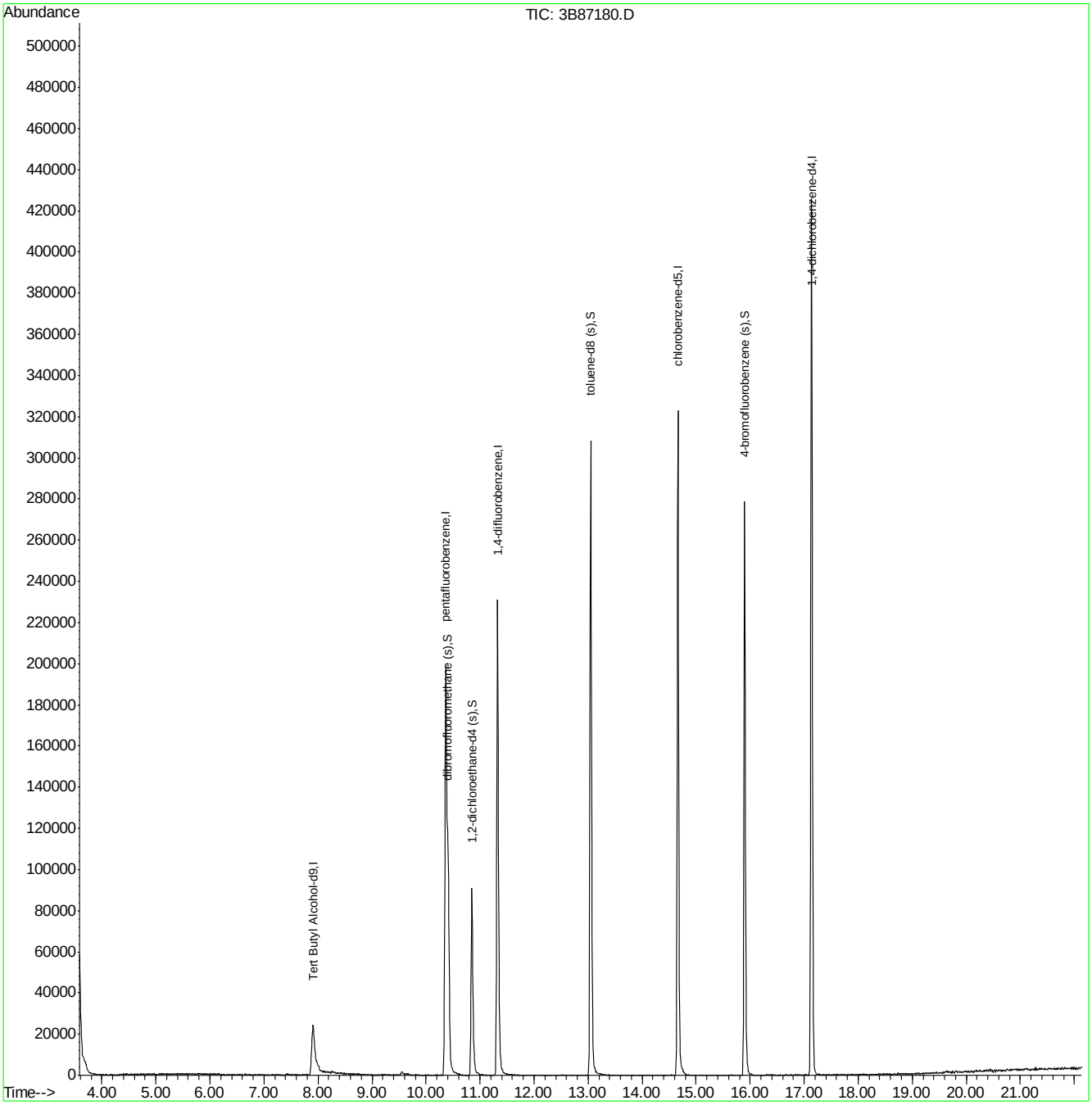
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.91	65	76242	500.00	ug/L	-0.03
5) pentafluorobenzene	10.36	168	204256	50.00	ug/L	-0.01
63) 1,4-difluorobenzene	11.33	114	249553	50.00	ug/L	0.00
93) chlorobenzene-d5	14.66	117	232245	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	141485	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.41	113	72478	48.64	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 121		Recovery = 97.28%			
56) 1,2-dichloroethane-d4 (s)	10.85	65	91282	42.26	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 84.52%			
85) toluene-d8 (s)	13.05	98	260816	54.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 108.62%			
111) 4-bromofluorobenzene (s)	15.90	95	99569	47.07	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 94.14%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87180.D
Acq On : 7 Sep 2012 6:52 pm
Operator : tarar1
Sample : jb15104-4
Misc : ms34998,v3b4068,w,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 10 12:44:26 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176853.D
Acq On : 31 Aug 2012 4:09 pm
Operator : SCOTTM
Sample : MB2
Misc : MS34939,VI7141,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:00:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 17:24:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.135	65	85048	50.00	ug/L	-0.01
5) pentafluorobenzene	9.363	168	247693	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.278	114	355629	50.00	ug/L	0.00
75) chlorobenzene-d5	13.453	117	260133	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.812	152	131703	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.420	113	72547	51.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.76%			
47) 1,2-dichloroethane-d4...	9.839	65	75460	53.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.46%			
76) toluene-d8 (s)	11.931	98	242256	53.07	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.14%			
91) 4-bromofluorobenzene (s)	14.614	95	81191	47.52	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.04%			

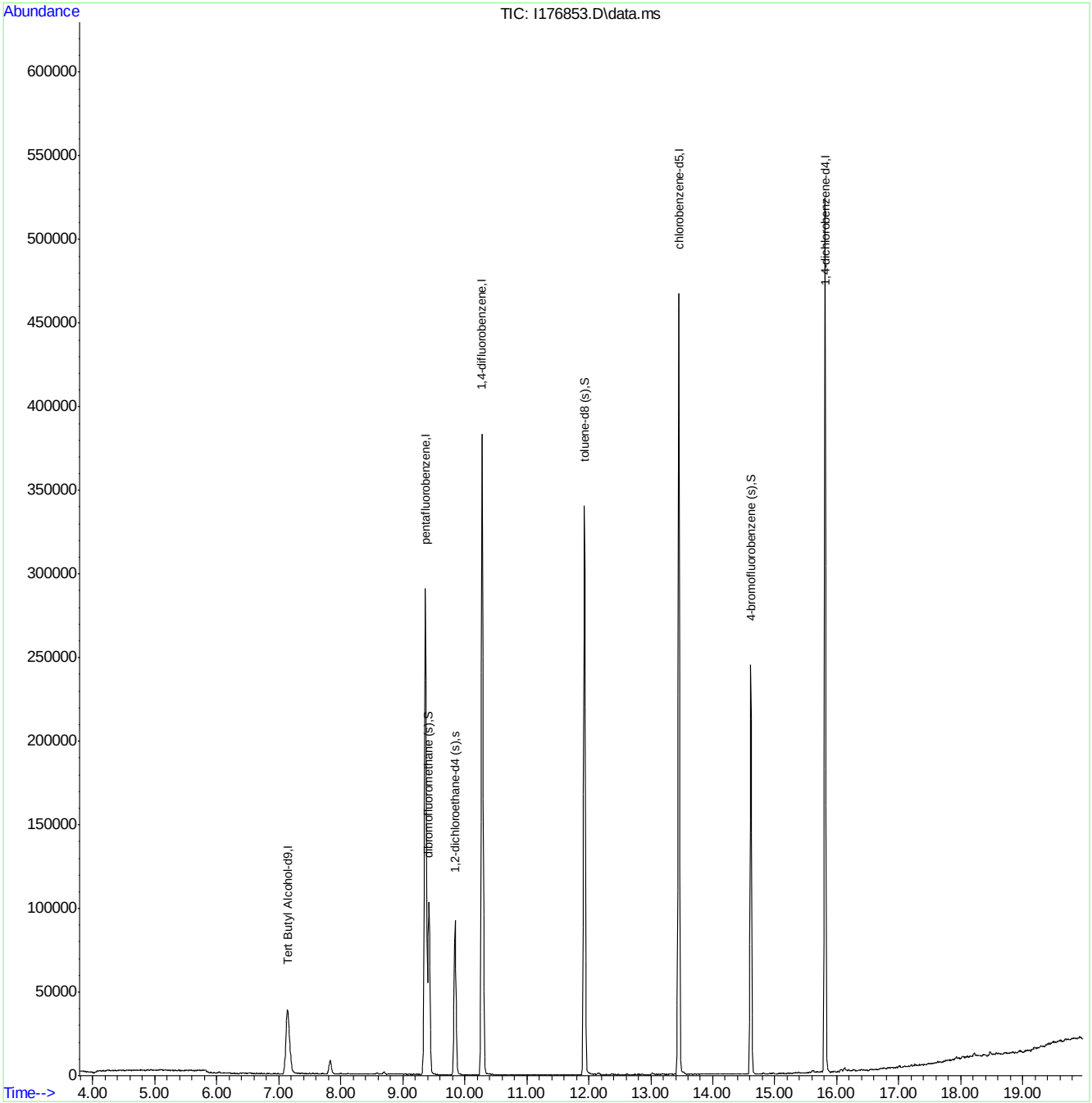
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176853.D
Acq On : 31 Aug 2012 4:09 pm
Operator : SCOTTM
Sample : MB2
Misc : MS34939,VI7141,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 11:00:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 17:24:45 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (LSC Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176885.D
Acq On : 1 Sep 2012 11:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Sep 04 10:39:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 17:24:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.137	65	108428	50.00	ug/L	0.00
5) pentafluorobenzene	9.359	168	244210	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.280	114	352556	50.00	ug/L	0.00
75) chlorobenzene-d5	13.449	117	259501	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.808	152	132592	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.417	113	73277	52.63	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.26%			
47) 1,2-dichloroethane-d4...	9.841	65	82223	58.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 117.02%			
76) toluene-d8 (s)	11.927	98	242852	53.33	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.66%			
91) 4-bromofluorobenzene (s)	14.611	95	83268	48.41	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.82%			

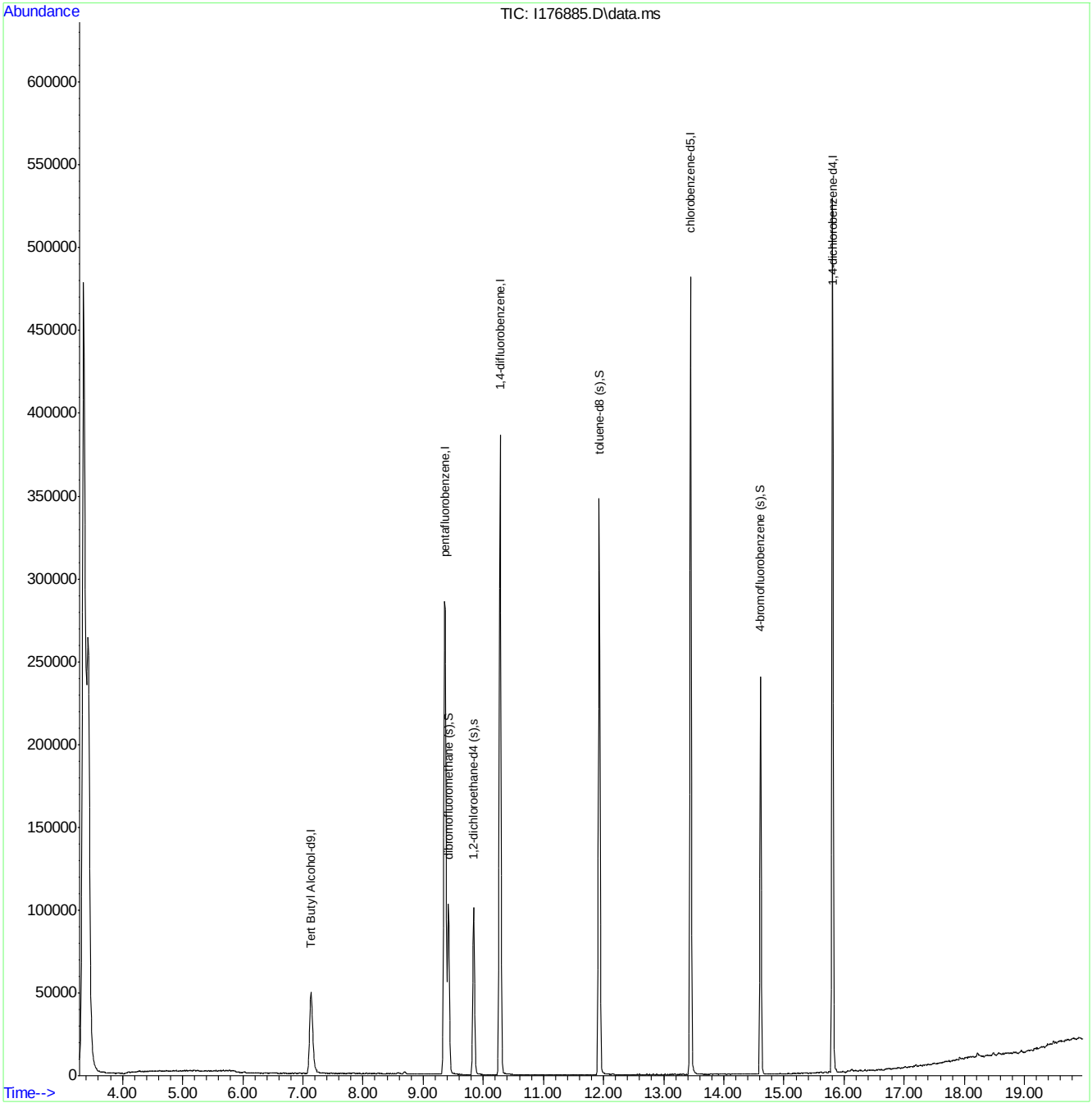
Target Compounds	Qvalue

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

Quantitation Report (LSC Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176885.D
Acq On : 1 Sep 2012 11:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Sep 04 10:39:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 17:24:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87169.D
Acq On : 7 Sep 2012 1:04 pm
Operator : tarar1
Sample : mb
Misc : ms34998,v3b4068,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 12:37:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	95667	500.00	ug/L	-0.02
5) pentafluorobenzene	10.37	168	242377	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.33	114	295258	50.00	ug/L	0.00
93) chlorobenzene-d5	14.66	117	272148	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	164593	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.41	113	85574	48.40	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 121		Recovery = 96.80%			
56) 1,2-dichloroethane-d4 (s)	10.84	65	104944	40.95	ug/L	-0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 81.90%			
85) toluene-d8 (s)	13.05	98	308382	54.28	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 108.56%			
111) 4-bromofluorobenzene (s)	15.90	95	115150	46.80	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 93.60%			

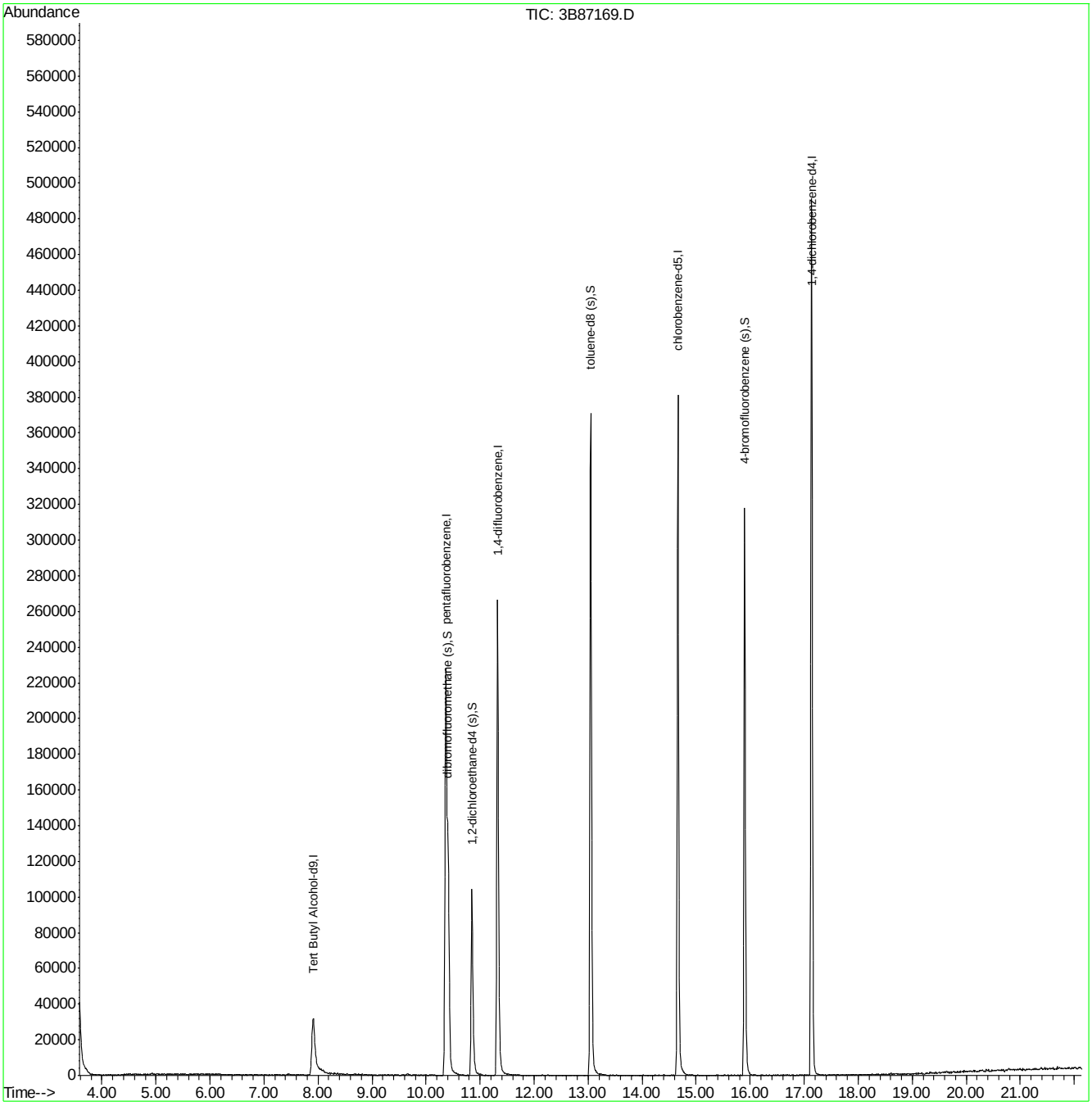
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87169.D
Acq On : 7 Sep 2012 1:04 pm
Operator : tarar1
Sample : mb
Misc : ms34998,v3b4068,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 12:37:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176854.D
Acq On : 31 Aug 2012 5:23 pm
Operator : SCOTTM
Sample : BS
Misc : MS34939,VI7141,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 04 09:16:54 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.147	65	89328	50.00	ug/L		0.00
5) pentafluorobenzene	9.365	168	273486	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.280	114	390595	50.00	ug/L		0.00
75) chlorobenzene-d5	13.449	117	285831	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.813	152	143309	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.422	113	78606	50.42	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.84%				
47) 1,2-dichloroethane-d4...	9.841	65	81052	52.06	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.12%				
76) toluene-d8 (s)	11.927	98	267962	53.43	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.86%				
91) 4-bromofluorobenzene (s)	14.616	95	88681	47.70	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.40%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.267	59	31476	229.14	ug/L		97
3) iso-butyl alcohol	9.909	74	22720	475.33	ug/L	#	96
4) 1,4-dioxane	11.007	88	13771	1156.08	ug/L		96
6) chlorodifluoromethane	3.805	51	99727	57.21	ug/L		98
7) dichlorodifluoromethane	3.779	85	126752	55.83	ug/L		99
8) chloromethane	4.124	50	99307	51.57	ug/L		100
9) vinyl chloride	4.365	62	111705	54.03	ug/L		98
10) bromomethane	5.003	94	34861	42.35	ug/L		99
11) chloroethane	5.170	64	38340	46.23	ug/L		100
12) trichlorofluoromethane	5.615	101	114660	50.88	ug/L		99
13) ethyl ether	6.028	74	33273	46.24	ug/L		94
14) acrolein	6.294	56	96139	525.77	ug/L		100
15) freon 113	6.404	151	65165	52.70	ug/L		98
16) 1,1-dichloroethene	6.446	61	123843	57.81	ug/L		98
17) acetone	6.519	58	4755	45.66	ug/L	#	77
18) iodomethane	6.729	142	136682	54.11	ug/L	#	100
19) carbon disulfide	6.844	TIC	353469	54.91	ug/L		99
20) methyl acetate	6.974	74	7759	49.09	ug/L	#	90
21) allyl chloride	6.980	76	43122	54.06	ug/L		92
22) acetonitrile	6.974	41	178333	533.85	ug/L		96
23) methylene chloride	7.173	84	74346	48.99	ug/L		98
24) methyl tert butyl ether	7.492	73	350053	93.13	ug/L		99
25) acrylonitrile	7.513	53	82980	269.82	ug/L		98
26) trans-1,2-dichloroethene	7.539	96	78452	49.06	ug/L		98
27) hexane	7.827	57	113707	66.58	ug/L		100
28) di-isopropyl ether	8.083	45	234581	53.85	ug/L		96
29) vinyl acetate	8.115	65	44069	53.87	ug/L	#	100
30) 1,1-dichloroethane	8.115	63	137134	54.54	ug/L		100
31) chloroprene	8.214	53	115679	63.62	ug/L		98
32) ethyl tert-butyl ether	8.549	59	215725	51.93	ug/L		99
33) 2-butanone	8.826	72	6159	50.69	ug/L		85
34) ethyl acetate	8.836	45	6939	49.09	ug/L	#	1
35) 2,2-dichloropropane	8.847	77	128227	53.64	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176854.D
Acq On : 31 Aug 2012 5:23 pm
Operator : SCOTTM
Sample : BS
Misc : MS34939,VI7141,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 04 09:16:54 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.852	96	81544	48.43	ug/L		98
37) methacrylonitrile	9.108	67	18752	50.38	ug/L	#	93
38) propionitrile	8.936	54	63570	525.81	ug/L		96
39) bromochloromethane	9.166	128	35078	51.17	ug/L		94
40) tetrahydrofuran	9.197	42	16702	49.18	ug/L		98
41) chloroform	9.218	83	135505	51.52	ug/L		100
42) tert-Butyl Formate	9.244	59	54010	54.30	ug/L		99
44) 1,1,1-trichloroethane	9.464	97	128917	55.94	ug/L		100
45) cyclohexane	9.527	84	120236	56.18	ug/L	#	68
48) carbon tetrachloride	9.663	117	114188	56.66	ug/L		99
49) 1,1-dichloropropene	9.642	75	109147	54.63	ug/L		100
50) isopropyl acetate	9.830	61	21134	51.61	ug/L	#	66
51) benzene	9.903	78	297196	51.93	ug/L		99
52) 2,2,4-trimethylpentane	9.888	57	291831	57.20	ug/L		99
53) tert-amyl methyl ether	9.935	73	189862	51.55	ug/L		99
54) 1,2-dichloroethane	9.929	62	86285	51.04	ug/L		99
55) heptane	10.060	57	65734	65.95	ug/L		98
56) n-butyl alcohol	10.416	56	72622	2577.03	ug/L		98
57) trichloroethene	10.620	95	79747	54.38	ug/L		96
58) ethyl acrylate	10.829	55	112601	56.32	ug/L	#	100
59) methyl methacrylate	10.897	69	31640	48.26	ug/L	#	62
60) 1,2-dichloropropane	10.897	63	70514	52.60	ug/L		100
61) methylcyclohexane	10.829	83	138687	58.93	ug/L		96
62) dibromomethane	11.059	93	38250	51.76	ug/L		99
63) bromodichloromethane	11.190	83	93437	51.80	ug/L		99
64) 2-nitropropane	11.420	41	17533	45.92	ug/L	#	81
65) 2-chloroethyl vinyl ether	11.425	63	127679	272.52	ug/L		98
66) epichlorohydrin	11.556	57	22875	252.39	ug/L		100
67) cis-1,3-dichloropropene	11.645	75	110837	51.56	ug/L		97
68) 4-methyl-2-pentanone	11.739	58	18301	51.00	ug/L		97
69) 3-methyl-1-butanol	11.765	70	25474	869.64	ug/L		92
70) toluene	12.001	91	295817	50.49	ug/L		99
71) trans-1,3-dichloropropene	12.210	75	91443	49.61	ug/L		93
72) ethyl methacrylate	12.199	69	61433	49.68	ug/L		98
73) 1,1,2-trichloroethane	12.430	83	41185	49.55	ug/L		99
74) 2-hexanone	12.597	58	16149	51.16	ug/L		98
77) tetrachloroethene	12.586	166	78966	53.81	ug/L		98
78) 1,3-dichloropropane	12.613	76	77643	51.57	ug/L		99
79) butyl acetate	12.665	56	29839	52.42	ug/L		99
80) 3,3-Dimethyl-1-Butanol	12.770	57	44666	544.18	ug/L		98
81) dibromochloromethane	12.874	129	60636	51.83	ug/L		99
82) 1,2-dibromoethane	13.026	107	47294	50.50	ug/L		99
83) chlorobenzene	13.481	112	171903	50.66	ug/L		98
84) 1,1,1,2-tetrachloroethane	13.544	131	62937	52.05	ug/L		99
85) ethylbenzene	13.533	91	307516	52.47	ug/L		98
86) m,p-xylene	13.643	106	229178	103.54	ug/L		98
87) o-xylene	14.061	106	110980	51.18	ug/L		100
88) styrene	14.072	104	174679	51.00	ug/L		97
89) bromoform	14.349	173	34832	50.29	ug/L		98
92) isopropylbenzene	14.401	105	295531	49.99	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176854.D
Acq On : 31 Aug 2012 5:23 pm
Operator : SCOTTM
Sample : BS
Misc : MS34939,VI7141,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 04 09:16:54 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

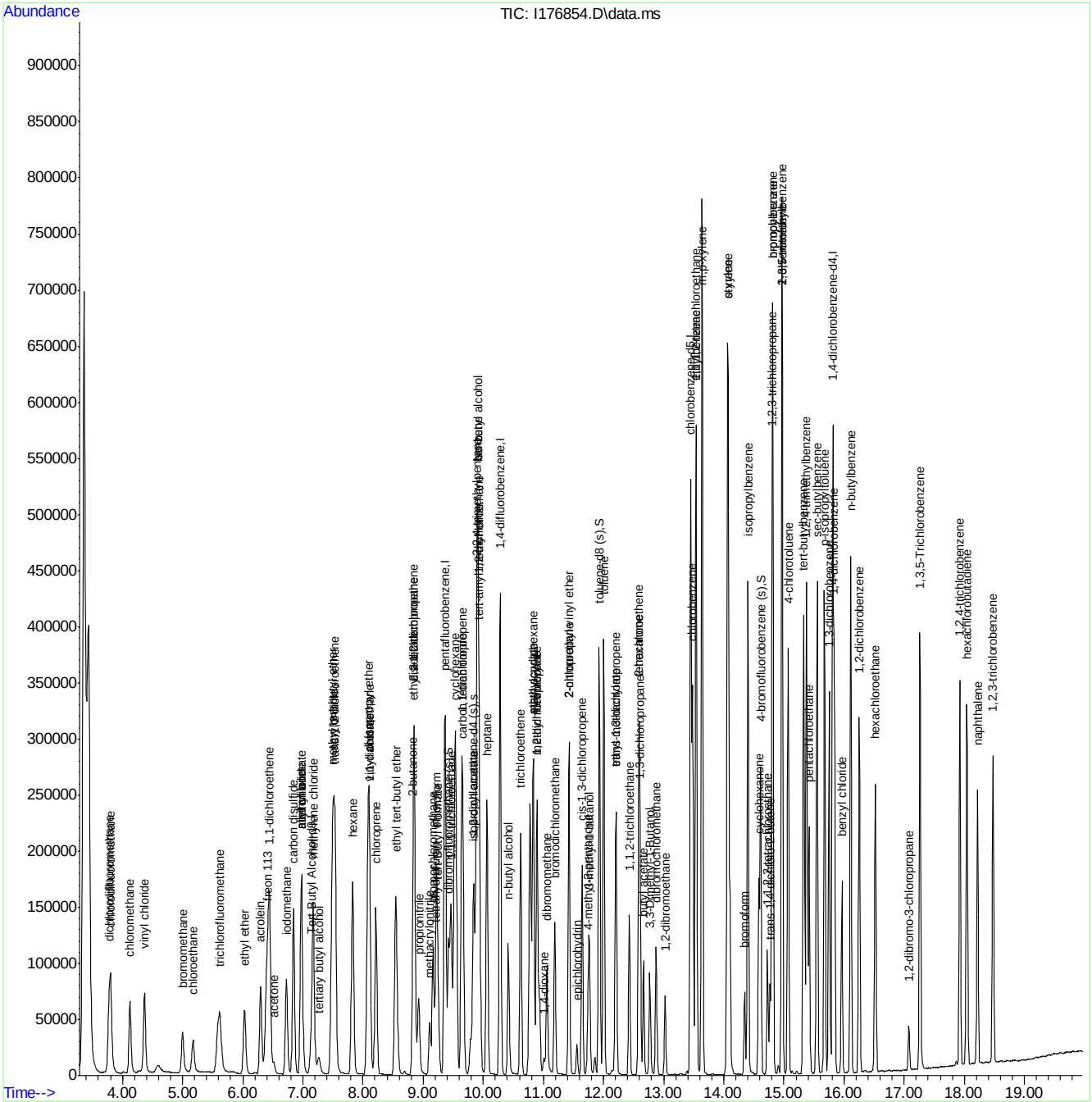
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cyclohexanone	14.584	55	71894	496.96 ug/L	97
94) 1,1,2,2-tetrachloroethane	14.726	83	56637	47.93 ug/L	99
95) trans-1,4-dichloro-2-b...	14.767	53	15558	48.88 ug/L	96
96) 1,2,3-trichloropropane	14.799	110	12515	46.51 ug/L	97
97) n-propylbenzene	14.815	91	345928	49.84 ug/L	99
98) bromobenzene	14.809	156	70177	47.04 ug/L	93
99) 2-chlorotoluene	14.966	126	68628	49.03 ug/L	94
100) 4-chlorotoluene	15.071	91	213271	47.32 ug/L	100
101) 1,3,5-trimethylbenzene	14.971	105	248297	50.30 ug/L	99
102) tert-butylbenzene	15.327	119	212373	51.02 ug/L	98
103) pentachloroethane	15.421	167	47222	52.72 ug/L	100
104) 1,2,4-trimethylbenzene	15.374	105	248401	49.87 ug/L	100
105) sec-butylbenzene	15.552	105	332745	52.76 ug/L	100
106) p-isopropyltoluene	15.678	119	268819	51.78 ug/l	99
107) benzyl chloride	15.965	91	124868	49.92 ug/L	100
108) 1,3-dichlorobenzene	15.751	146	139479	49.14 ug/L	99
109) 1,4-dichlorobenzene	15.840	146	140072	48.74 ug/L	99
110) 1,2-dichlorobenzene	16.253	146	130462	50.17 ug/L	99
111) n-butylbenzene	16.112	92	151553	54.36 ug/L	100
112) hexachloroethane	16.520	119	56929	54.51 ug/L	99
113) 1,2-dibromo-3-chloropr...	17.079	157	11540	50.93 ug/L	95
114) 1,3,5-Trichlorobenzene	17.262	180	128251	54.05 ug/L	100
115) 1,2,4-trichlorobenzene	17.927	180	109846	53.10 ug/L	99
116) hexachlorobutadiene	18.042	225	75441	58.58 ug/L	99
117) naphthalene	18.219	128	190188	53.28 ug/L	99
118) 1,2,3-trichlorobenzene	18.476	180	94242	53.06 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176854.D
Acq On : 31 Aug 2012 5:23 pm
Operator : SCOTTM
Sample : BS
Misc : MS34939,VI7141,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 04 09:16:54 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176886.D
Acq On : 1 Sep 2012 12:34 pm
Operator : SCOTTM
Sample : BS
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Sep 04 10:45:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.137	65	102462	50.00	ug/L		0.00
5) pentafluorobenzene	9.365	168	272181	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.280	114	394783	50.00	ug/L		0.00
75) chlorobenzene-d5	13.450	117	284945	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.808	152	143282	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.417	113	80940	52.16	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.32%				
47) 1,2-dichloroethane-d4...	9.841	65	86094	54.71	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.42%				
76) toluene-d8 (s)	11.928	98	272221	54.45	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 108.90%				
91) 4-bromofluorobenzene (s)	14.611	95	89934	48.39	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.78%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.257	59	33561	213.00	ug/L		98
3) iso-butyl alcohol	9.909	74	21118	385.18	ug/L	#	93
4) 1,4-dioxane	11.007	88	14048	1028.16	ug/L		93
6) chlorodifluoromethane	3.805	51	83250	47.99	ug/L		95
7) dichlorodifluoromethane	3.779	85	94259	41.72	ug/L		98
8) chloromethane	4.119	50	90148	47.04	ug/L		99
9) vinyl chloride	4.365	62	75406	36.65	ug/L		97
10) bromomethane	5.013	94	43379	52.95	ug/L		99
11) chloroethane	5.181	64	36665	44.42	ug/L		99
12) trichlorofluoromethane	5.615	101	84672	37.75	ug/L		99
13) ethyl ether	6.028	74	33973	47.44	ug/L		92
14) acrolein	6.295	56	96954	532.77	ug/L		100
15) freon 113	6.410	151	50560	41.08	ug/L		95
16) 1,1-dichloroethene	6.446	61	104347	48.95	ug/L		98
17) acetone	6.514	58	4570	44.09	ug/L	#	81
18) iodomethane	6.729	142	116896	46.50	ug/L	#	100
19) carbon disulfide	6.844	TIC	292827	45.71	ug/L		100
20) methyl acetate	6.969	74	7777	49.44	ug/L	#	87
21) allyl chloride	6.980	76	38827	48.91	ug/L		88
22) acetonitrile	6.975	41	175449	527.74	ug/L		94
23) methylene chloride	7.173	84	69111	45.76	ug/L		95
24) methyl tert butyl ether	7.492	73	353439	94.48	ug/L		99
25) acrylonitrile	7.513	53	87946	287.34	ug/L		99
26) trans-1,2-dichloroethene	7.539	96	68100	42.79	ug/L		97
27) hexane	7.827	57	89240	52.51	ug/L		99
28) di-isopropyl ether	8.078	45	225144	51.93	ug/L		97
29) vinyl acetate	8.110	65	41125	50.52	ug/L	#	100
30) 1,1-dichloroethane	8.115	63	128639	51.41	ug/L		100
31) chloroprene	8.214	53	98276	54.31	ug/L		97
32) ethyl tert-butyl ether	8.544	59	208514	50.44	ug/L		97
33) 2-butanone	8.821	72	6105	50.49	ug/L		77
34) ethyl acetate	8.831	45	7273	51.70	ug/L	#	1
35) 2,2-dichloropropane	8.847	77	107829	45.33	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176886.D
Acq On : 1 Sep 2012 12:34 pm
Operator : SCOTTM
Sample : BS
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Sep 04 10:45:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.852	96	73658	43.96	ug/L		97
37) methacrylonitrile	9.109	67	19599	52.91	ug/L		91
38) propionitrile	8.931	54	69268	575.69	ug/L		97
39) bromochloromethane	9.161	128	32735	47.98	ug/L		92
40) tetrahydrofuran	9.197	42	18636	55.13	ug/L		96
41) chloroform	9.218	83	127709	48.79	ug/L		98
42) tert-Butyl Formate	9.245	59	54092	54.64	ug/L		98
44) 1,1,1-trichloroethane	9.459	97	110556	48.21	ug/L		99
45) cyclohexane	9.527	84	97037	45.56	ug/L	#	77
48) carbon tetrachloride	9.663	117	95798	47.03	ug/L		98
49) 1,1-dichloropropene	9.637	75	92270	45.70	ug/L		99
50) isopropyl acetate	9.830	61	21867	52.84	ug/L	#	64
51) benzene	9.904	78	270460	46.76	ug/L		98
52) 2,2,4-trimethylpentane	9.888	57	234637	45.50	ug/L		99
53) tert-amyl methyl ether	9.930	73	185575	49.85	ug/L		98
54) 1,2-dichloroethane	9.930	62	84167	49.26	ug/L		99
55) heptane	10.060	57	51278	50.90	ug/L		98
56) n-butyl alcohol	10.411	56	78342	2750.52	ug/L		98
57) trichloroethene	10.620	95	70823	47.78	ug/L		95
58) ethyl acrylate	10.829	55	94685	46.85	ug/L	#	99
59) methyl methacrylate	10.897	69	33773	50.97	ug/L	#	72
60) 1,2-dichloropropane	10.892	63	67954	50.15	ug/L		97
61) methylcyclohexane	10.829	83	111856	47.02	ug/L		95
62) dibromomethane	11.059	93	37978	50.85	ug/L		99
63) bromodichloromethane	11.190	83	86988	47.71	ug/L		98
64) 2-nitropropane	11.415	41	18027	46.71	ug/L	#	81
65) 2-chloroethyl vinyl ether	11.426	63	129718	273.94	ug/L		97
66) epichlorohydrin	11.556	57	23812	259.94	ug/L		100
67) cis-1,3-dichloropropene	11.645	75	98300	45.24	ug/L		97
68) 4-methyl-2-pentanone	11.739	58	19624	54.11	ug/L		96
69) 3-methyl-1-butanol	11.760	70	27313	919.48	ug/L		92
70) toluene	12.001	91	258370	43.63	ug/L		99
71) trans-1,3-dichloropropene	12.210	75	87081	46.74	ug/L		94
72) ethyl methacrylate	12.194	69	59925	47.94	ug/L		95
73) 1,1,2-trichloroethane	12.430	83	40039	47.66	ug/L		98
74) 2-hexanone	12.597	58	16721	52.41	ug/L		97
77) tetrachloroethene	12.587	166	64202	43.89	ug/L		98
78) 1,3-dichloropropane	12.608	76	74876	49.89	ug/L		100
79) butyl acetate	12.665	56	30611	53.94	ug/L		98
80) 3,3-Dimethyl-1-Butanol	12.770	57	48360	591.02	ug/L		97
81) dibromochloromethane	12.874	129	54722	46.92	ug/L		100
82) 1,2-dibromoethane	13.021	107	44733	47.91	ug/L		100
83) chlorobenzene	13.481	112	151481	44.78	ug/L		96
84) 1,1,1,2-tetrachloroethane	13.544	131	56924	47.23	ug/L		99
85) ethylbenzene	13.533	91	265301	45.41	ug/L		99
86) m,p-xylene	13.638	106	198358	89.90	ug/L		96
87) o-xylene	14.062	106	98945	45.78	ug/L		99
88) styrene	14.072	104	153843	45.06	ug/L		98
89) bromoform	14.344	173	32531	47.12	ug/L		99
92) isopropylbenzene	14.402	105	252097	42.65	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176886.D
Acq On : 1 Sep 2012 12:34 pm
Operator : SCOTTM
Sample : BS
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Sep 04 10:45:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

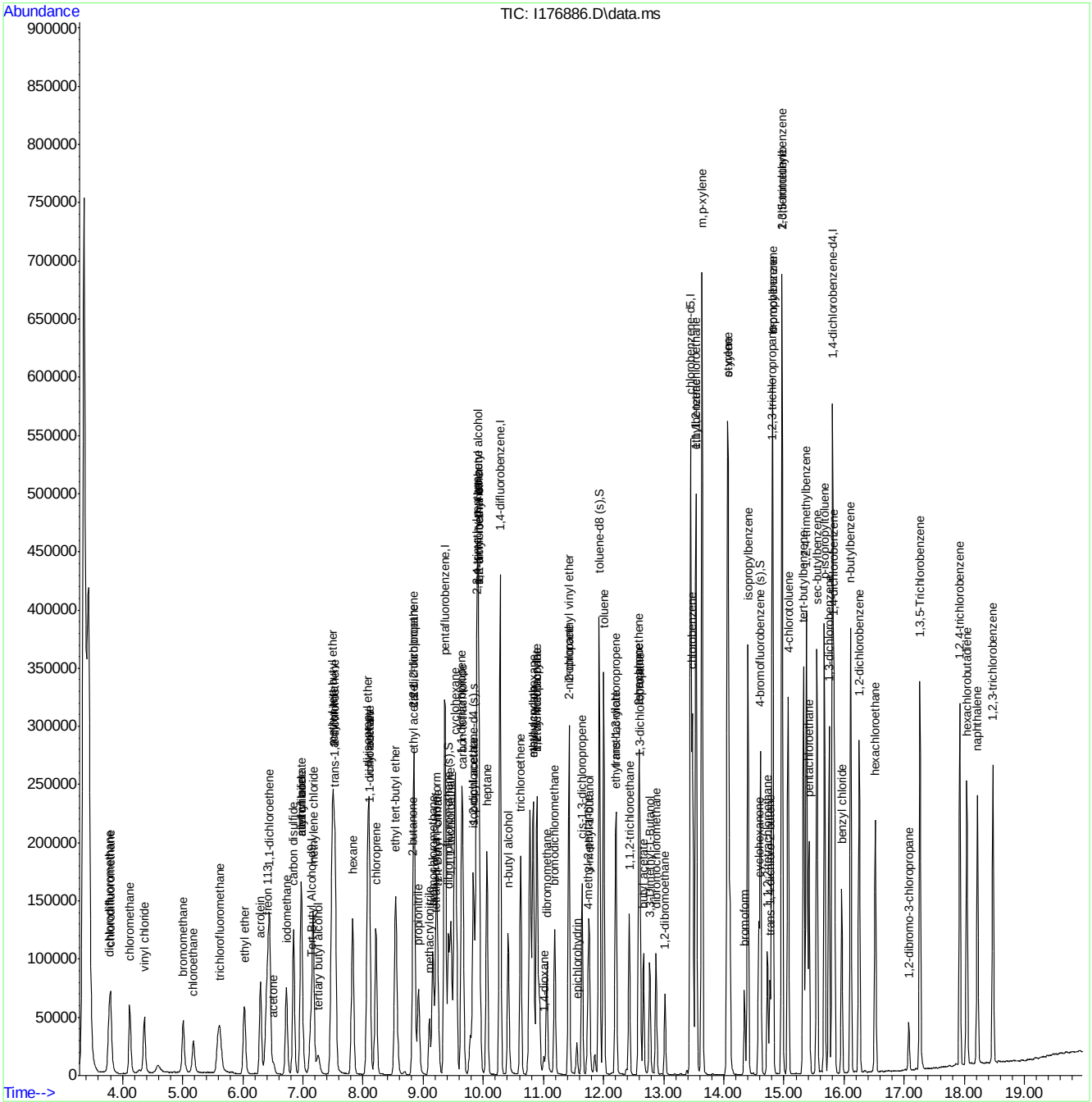
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) cyclohexanone	14.585	55	54481	376.66	ug/L		98
94) 1,1,2,2-tetrachloroethane	14.726	83	54584	46.20	ug/L		100
95) trans-1,4-dichloro-2-b...	14.768	53	15841	49.78	ug/L		96
96) 1,2,3-trichloropropane	14.799	110	12370	45.98	ug/L		99
97) n-propylbenzene	14.815	91	300714	43.34	ug/L		99
98) bromobenzene	14.810	156	63021	42.25	ug/L	#	91
99) 2-chlorotoluene	14.966	126	59686	42.65	ug/L		95
100) 4-chlorotoluene	15.071	91	187616	41.64	ug/L		98
101) 1,3,5-trimethylbenzene	14.972	105	214766	43.51	ug/L		99
102) tert-butylbenzene	15.327	119	178813	42.97	ug/L		98
103) pentachloroethane	15.416	167	42036	46.94	ug/L		99
104) 1,2,4-trimethylbenzene	15.374	105	220660	44.31	ug/L		99
105) sec-butylbenzene	15.547	105	275213	43.65	ug/L		99
106) p-isopropyltoluene	15.672	119	231503	44.60	ug/l		99
107) benzyl chloride	15.960	91	116454	46.56	ug/L		99
108) 1,3-dichlorobenzene	15.751	146	123975	43.69	ug/L		99
109) 1,4-dichlorobenzene	15.835	146	123636	43.03	ug/L		99
110) 1,2-dichlorobenzene	16.253	146	117597	45.23	ug/L		100
111) n-butylbenzene	16.107	92	127245	45.65	ug/L		99
112) hexachloroethane	16.520	119	47669	45.65	ug/L		99
113) 1,2-dibromo-3-chloropr...	17.079	157	11249	49.65	ug/L		100
114) 1,3,5-Trichlorobenzene	17.262	180	109577	46.19	ug/L		99
115) 1,2,4-trichlorobenzene	17.927	180	97636	47.21	ug/L		99
116) hexachlorobutadiene	18.042	225	56893	44.18	ug/L		99
117) naphthalene	18.214	128	181897	50.96	ug/L		99
118) 1,2,3-trichlorobenzene	18.476	180	83277	46.89	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176886.D
Acq On : 1 Sep 2012 12:34 pm
Operator : SCOTTM
Sample : BS
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Sep 04 10:45:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87170.D
Acq On : 7 Sep 2012 1:41 pm
Operator : tarar1
Sample : bs
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:05:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.91	65	98686	500.00	ug/L		-0.02
5) pentafluorobenzene	10.36	168	211099	50.00	ug/L		-0.01
63) 1,4-difluorobenzene	11.32	114	275531	50.00	ug/L		-0.01
93) chlorobenzene-d5	14.66	117	260210	50.00	ug/L		-0.01
109) 1,4-dichlorobenzene-d4	17.14	152	151560	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.40	113	75416	48.97	ug/L		-0.02
Spiked Amount 50.000	Range 81 - 121		Recovery = 97.94%				
56) 1,2-dichloroethane-d4 (s)	10.84	65	91316	40.91	ug/L		-0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 81.82%				
85) toluene-d8 (s)	13.04	98	284986	53.75	ug/L		-0.01
Spiked Amount 50.000	Range 80 - 122		Recovery = 107.50%				
111) 4-bromofluorobenzene (s)	15.89	95	110358	48.71	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 97.42%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	8.05	59	47987	237.78	ug/L		100
4) 1,4-dioxane	12.07	88	23334	1374.57	ug/L		86
11) chlorodifluoromethane	4.07	51	62975	43.81	ug/L		94
12) dichlorodifluoromethane	4.04	85	97585	43.32	ug/L		98
15) chloromethane	4.43	50	90718	48.21	ug/L		99
16) vinyl chloride	4.71	62	88368	52.61	ug/L		98
18) bromomethane	5.43	94	64851	53.52	ug/L		99
19) chloroethane	5.62	64	42499	50.77	ug/L		94
21) trichlorofluoromethane	6.18	101	133238	47.11	ug/L		96
23) ethyl ether	6.63	74	39982	50.87	ug/L		92
27) acrolein	6.91	56	147919	479.53	ug/L		100
28) 1,1-dichloroethene	7.12	96	62990	46.65	ug/L		86
29) acetone	7.17	43	26289	45.92	ug/L		78
30) allyl chloride	7.71	76	42581	50.06	ug/L	#	79
31) acetonitrile	7.69	40	64161	543.87	ug/L	#	39
32) iodomethane	7.42	142	140714	53.05	ug/L		99
33) iso-butyl alcohol	10.92	74	21086	425.24	ug/L	#	59
34) carbon disulfide	7.57	76	204520	52.67	ug/L		91
35) methylene chloride	7.93	84	70928	47.44	ug/L		94
36) methyl acetate	7.71	74	13920	45.82	ug/L	#	86
37) methyl tert butyl ether	8.30	73	427753	87.98	ug/L		97
38) trans-1,2-dichloroethene	8.35	96	61813	46.72	ug/L		89
39) di-isopropyl ether	8.98	45	194881	43.99	ug/L		88
40) 2-butanone	9.78	72	10560	49.51	ug/L	#	25
41) 1,1-dichloroethane	8.98	63	115140	46.90	ug/L		96
42) chloroprene	9.11	53	90416	42.21	ug/L		93
43) acrylonitrile	8.29	53	155703	252.97	ug/L		93
44) vinyl acetate	8.99	86	14018	49.12	ug/L		60
45) ethyl tert-butyl ether	9.49	59	209965	41.85	ug/L		96
46) ethyl acetate	9.80	45	11688	42.81	ug/L		88
47) 2,2-dichloropropane	9.80	77	106120	46.36	ug/L		96
48) cis-1,2-dichloroethene	9.79	96	73820	49.93	ug/L		92
49) propionitrile	9.86	54	126012	511.64	ug/L		86

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87170.D
Acq On : 7 Sep 2012 1:41 pm
Operator : tarar1
Sample : bs
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:05:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) methylacrylate	9.88	55	88712	49.38	ug/L		94
51) bromochloromethane	10.12	128	41109	47.63	ug/L		97
52) tetrahydrofuran	10.18	42	28964	47.17	ug/L		100
53) chloroform	10.19	83	126260	44.21	ug/L		98
54) t-butyl formate	10.22	59	73804	42.25	ug/L	#	93
57) freon 113	7.09	151	57570	44.29	ug/L		90
58) methacrylonitrile	10.07	41	47170	43.08	ug/L		94
59) 1,1,1-trichloroethane	10.46	97	110548	42.84	ug/L		98
60) Cyclohexane	10.54	84	87976	49.37	ug/L		95
61) tert amyl alcohol	10.81	59	49914	220.13	ug/L		98
62) iso-octane	10.93	57	179678	44.30	ug/L		94
64) tert-amyl ethyl ether	11.85	59	159073	40.19	ug/L		98
65) epichlorohydrin	12.63	57	48039	256.89	ug/L		99
66) n-butyl alcohol	11.47	56	128343	2410.97	ug/L		95
67) carbon tetrachloride	10.67	117	107095	42.02	ug/L		97
68) 1,1-dichloropropene	10.65	75	86768	44.64	ug/L		97
69) hexane	8.70	57	64174	40.16	ug/L		96
70) benzene	10.92	78	247147	46.87	ug/L		99
71) tert-amyl methyl ether	10.97	73	205064	42.34	ug/L		99
72) heptane	11.12	57	40223	45.35	ug/L		97
73) isopropyl acetate	10.86	43	142432	45.90	ug/L		95
74) 1,2-dichloroethane	10.93	62	102363	41.65	ug/L		99
76) trichloroethene	11.68	95	71352	46.87	ug/L		97
77) 2-nitropropane	12.87	46	4167	52.88	ug/L	#	71
78) 2-chloroethyl vinyl ether	12.50	63	238465	263.14	ug/L		100
79) methyl methacrylate	11.96	69	55194	50.69	ug/L	#	70
80) 1,2-dichloropropane	11.95	63	63270	47.98	ug/L		97
81) dibromomethane	12.11	93	51946	49.84	ug/L		92
82) methylcyclohexane	11.90	83	98546	45.66	ug/L		97
83) bromodichloromethane	12.26	83	102099	43.68	ug/L		98
84) cis-1,3-dichloropropene	12.74	75	114454	45.32	ug/L		94
86) 4-methyl-2-pentanone	12.84	58	32784	48.63	ug/L		91
87) toluene	13.12	92	164969	46.65	ug/L		98
88) 3-methyl-1-butanol	12.87	55	83302	980.04	ug/L		91
89) trans-1,3-dichloropropene	13.33	75	117661	44.40	ug/L		91
90) ethyl methacrylate	13.33	69	94767	48.70	ug/L		94
91) 1,1,2-trichloroethane	13.56	83	57356	50.60	ug/L		92
92) 2-hexanone	13.74	58	29026	49.68	ug/L		88
94) tetrachloroethene	13.75	164	71075	44.93	ug/L		97
95) 3,3-dimethyl-1-butanol	13.93	57	85846	456.10	ug/L		97
96) 1,3-dichloropropane	13.75	76	109254	46.73	ug/L		91
97) butyl acetate	13.82	56	48336	45.87	ug/L		86
98) dibromochloromethane	14.04	129	93167	44.64	ug/L		98
99) 1,2-dibromoethane	14.20	107	79791	47.87	ug/L		95
101) chlorobenzene	14.69	112	207228	46.30	ug/L		97
102) 1,1,1,2-tetrachloroethane	14.76	131	84955	45.99	ug/L		96
103) ethylbenzene	14.75	91	313154	44.98	ug/L		99
104) m,p-xylene	14.86	106	254652	89.61	ug/L		99
105) o-xylene	15.31	106	136332	45.88	ug/L		94
107) styrene	15.32	104	222060	46.25	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87170.D
Acq On : 7 Sep 2012 1:41 pm
Operator : tarar1
Sample : bs
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:05:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

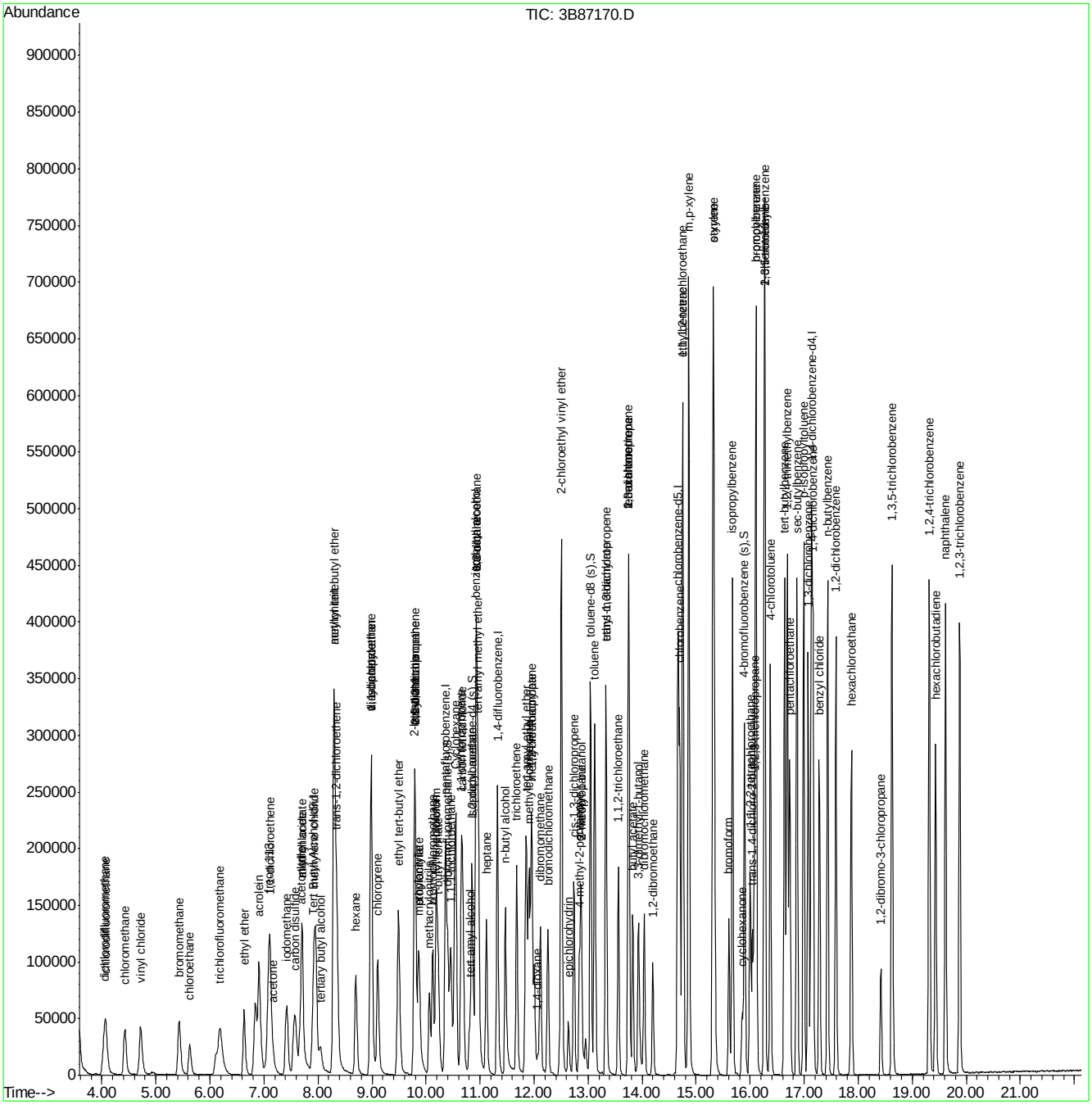
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) bromoform	15.60	173	82461	47.51	ug/L	96
110) isopropylbenzene	15.67	105	344716	46.64	ug/L	98
112) cyclohexanone	15.85	55	32029	816.92	ug/L	96
113) bromobenzene	16.10	156	103088	47.92	ug/L	96
114) 1,1,2,2-tetrachloroethane	16.00	83	101205	47.76	ug/L	98
115) trans-1,4-dichloro-2-buten	16.04	53	28401	40.38	ug/L	87
116) 1,2,3-trichloropropane	16.07	110	31187	46.82	ug/L	95
117) n-propylbenzene	16.11	91	370325	46.37	ug/L	98
119) 2-chlorotoluene	16.27	126	87301	47.32	ug/L	94
120) 4-chlorotoluene	16.37	91	238959	44.52	ug/L	97
121) 1,3,5-trimethylbenzene	16.26	105	290846	45.74	ug/L	99
122) tert-butylbenzene	16.63	119	271258	47.33	ug/L	96
123) pentachloroethane	16.73	167	75146	48.11	ug/L	98
124) 1,2,4-trimethylbenzene	16.69	105	306546	48.03	ug/L	98
125) sec-butylbenzene	16.86	105	376067	47.60	ug/L	99
126) 1,3-dichlorobenzene	17.07	146	192906	47.65	ug/L	98
127) p-isopropyltoluene	16.99	119	341287	48.74	ug/L	98
128) 1,4-dichlorobenzene	17.16	146	190590	47.20	ug/L	98
129) benzyl chloride	17.28	91	239608	46.43	ug/L	97
130) 1,2-dichlorobenzene	17.59	146	198191	47.88	ug/L	98
132) n-butylbenzene	17.43	92	157756	49.77	ug/L	99
134) 1,2-dibromo-3-chloropropan	18.42	75	27221	44.28	ug/L	89
135) 1,3,5-trichlorobenzene	18.62	180	191357	51.24	ug/L	99
136) 1,2,4-trichlorobenzene	19.31	180	186227	49.83	ug/L	99
137) hexachlorobutadiene	19.43	225	89074	51.72	ug/L	95
138) naphthalene	19.62	128	404267	46.87	ug/L	98
139) 1,2,3-trichlorobenzene	19.88	180	170978	49.92	ug/L	98
140) hexachloroethane	17.87	201	76222	51.44	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87170.D
Acq On : 7 Sep 2012 1:41 pm
Operator : tarar1
Sample : bs
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:05:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176860.D
Acq On : 31 Aug 2012 8:22 pm
Operator : SCOTTM
Sample : JB15104-1ms,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 04 09:28:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.147	65	65894	50.00	ug/L		0.00
5) pentafluorobenzene	9.365	168	223836	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.285	114	314711	50.00	ug/L		0.00
75) chlorobenzene-d5	13.449	117	221589	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.808	152	103705	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.422	113	64598	50.62	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.24%				
47) 1,2-dichloroethane-d4...	9.841	65	66457	52.98	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.96%				
76) toluene-d8 (s)	11.927	98	213270	54.85	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 109.70%				
91) 4-bromofluorobenzene (s)	14.611	95	67283	50.02	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.04%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.267	59	31145	307.36	ug/L		98
3) iso-butyl alcohol	9.909	74	14644	415.32	ug/L	#	53
4) 1,4-dioxane	11.012	88	14702	1673.17	ug/L		96
6) chlorodifluoromethane	3.805	51	62097	43.52	ug/L		96
7) dichlorodifluoromethane	3.779	85	80297	43.22	ug/L		98
8) chloromethane	4.124	50	70187	44.53	ug/L		98
9) vinyl chloride	4.370	62	76164	45.01	ug/L		99
10) bromomethane	5.003	94	23106	34.29	ug/L		98
11) chloroethane	5.175	64	25555	37.64	ug/L		99
12) trichlorofluoromethane	5.620	101	65308	35.41	ug/L		97
13) ethyl ether	6.033	74	26487	44.98	ug/L		92
14) acrolein	6.305	56	1019	6.81	ug/L		85
15) freon 113	6.415	151	30063	29.70	ug/L		98
16) 1,1-dichloroethene	6.446	61	76585	43.68	ug/L		100
17) acetone	6.519	58	3856	45.24	ug/L	#	77
18) iodomethane	6.729	142	76796	37.15	ug/L	#	100
19) carbon disulfide	6.844	TIC	195990	37.20	ug/L		99
20) methyl acetate	6.974	74	19571	151.28	ug/L	#	84
21) allyl chloride	6.985	76	22363	34.25	ug/L		83
22) acetonitrile	6.980	41	114917	420.32	ug/L		90
23) methylene chloride	7.178	84	55001	44.29	ug/L		98
24) methyl tert butyl ether	7.492	73	144124	46.85	ug/L		98
25) acrylonitrile	7.518	53	64651	256.85	ug/L		100
26) trans-1,2-dichloroethene	7.545	96	49845	38.09	ug/L		98
27) hexane	7.827	57	27377	19.59	ug/L		97
28) di-isopropyl ether	8.083	45	172677	48.43	ug/L	#	73
29) vinyl acetate	8.120	65	29330	43.81	ug/L	#	100
30) 1,1-dichloroethane	8.115	63	90929	44.19	ug/L		99
31) chloroprene	8.214	53	45383	30.50	ug/L		98
32) ethyl tert-butyl ether	8.549	59	166989	49.12	ug/L		97
33) 2-butanone	8.826	72	3802	38.24	ug/L	#	1
34) ethyl acetate	8.842	45	1387	11.99	ug/L	#	1
35) 2,2-dichloropropane	8.847	77	74240	37.95	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176860.D
Acq On : 31 Aug 2012 8:22 pm
Operator : SCOTTM
Sample : JB15104-1ms,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 04 09:28:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.852	96	60547	43.94	ug/L		99
37) methacrylonitrile	9.114	67	9890	32.46	ug/L	#	95
38) propionitrile	8.936	54	49754	502.82	ug/L		98
39) bromochloromethane	9.166	128	24717	44.05	ug/L		93
40) tetrahydrofuran	9.197	42	12285	44.20	ug/L		94
41) chloroform	9.223	83	84140	39.09	ug/L		99
42) tert-Butyl Formate	9.250	59	3392	4.17	ug/L	#	1
44) 1,1,1-trichloroethane	9.464	97	68976	36.57	ug/L		99
45) cyclohexane	9.527	84	42601	24.32	ug/L	#	74
48) carbon tetrachloride	9.663	117	53454	32.92	ug/L		98
49) 1,1-dichloropropene	9.642	75	52548	32.64	ug/L		98
50) isopropyl acetate	9.835	61	7626	23.12	ug/L		93
51) benzene	9.909	78	171433	37.18	ug/L		99
52) 2,2,4-trimethylpentane	9.888	57	61470	14.95	ug/L	#	67
53) tert-amyl methyl ether	9.935	73	138293	46.60	ug/L		95
54) 1,2-dichloroethane	9.935	62	60552	44.45	ug/L		98
55) heptane	10.066	57	13189	16.42	ug/L		99
56) n-butyl alcohol	10.416	56	63456	2794.72	ug/L		98
57) trichloroethene	10.625	95	43799	37.07	ug/L		96
58) ethyl acrylate	10.829	55	27659	17.17	ug/L	#	99
59) methyl methacrylate	10.897	69	38372	72.64	ug/L		97
60) 1,2-dichloropropane	10.897	63	41679	38.58	ug/L		98
61) methylcyclohexane	10.829	83	34249	18.06	ug/L		95
62) dibromomethane	11.059	93	25288	42.47	ug/L		96
63) bromodichloromethane	11.190	83	50079	34.46	ug/L		100
64) 2-nitropropane	11.420	41	12140	39.46	ug/L	#	100
65) 2-chloroethyl vinyl ether	11.425	63	77187	204.47	ug/L		97
66) epichlorohydrin	11.556	57	17442	238.85	ug/L		100
67) cis-1,3-dichloropropene	11.645	75	56872	32.84	ug/L		97
68) 4-methyl-2-pentanone	11.744	58	14109	48.80	ug/L		94
69) 3-methyl-1-butanol	11.765	70	20607	872.92	ug/L		93
70) toluene	12.006	91	160031	33.90	ug/L		99
71) trans-1,3-dichloropropene	12.210	75	45418	30.58	ug/L		99
72) ethyl methacrylate	12.199	69	12154	12.20	ug/L		98
73) 1,1,2-trichloroethane	12.430	83	24529	36.63	ug/L		98
74) 2-hexanone	12.597	58	10513	41.34	ug/L		94
77) tetrachloroethene	12.586	166	43113	37.90	ug/L		98
78) 1,3-dichloropropane	12.613	76	43849	37.57	ug/L		100
79) butyl acetate	12.770	56	16735	37.92	ug/L	#	1
80) 3,3-Dimethyl-1-Butanol	12.770	57	33867	532.23	ug/L		91
81) dibromochloromethane	12.874	129	26321	29.02	ug/L		100
82) 1,2-dibromoethane	13.026	107	25543	35.18	ug/L	#	100
83) chlorobenzene	13.481	112	48749	18.53	ug/L		99
84) 1,1,1,2-tetrachloroethane	13.544	131	21095	22.51	ug/L		100
85) ethylbenzene	13.533	91	81692	17.98	ug/L		98
86) m,p-xylene	13.643	106	56808	33.11	ug/L		98
87) o-xylene	14.061	106	26279	15.63	ug/L		99
88) styrene	14.072	104	37222	14.02	ug/L		97
89) bromoform	14.349	173	11935	22.23	ug/L		99
92) isopropylbenzene	14.401	105	58199	13.61	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176860.D
Acq On : 31 Aug 2012 8:22 pm
Operator : SCOTTM
Sample : JB15104-1ms,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 04 09:28:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

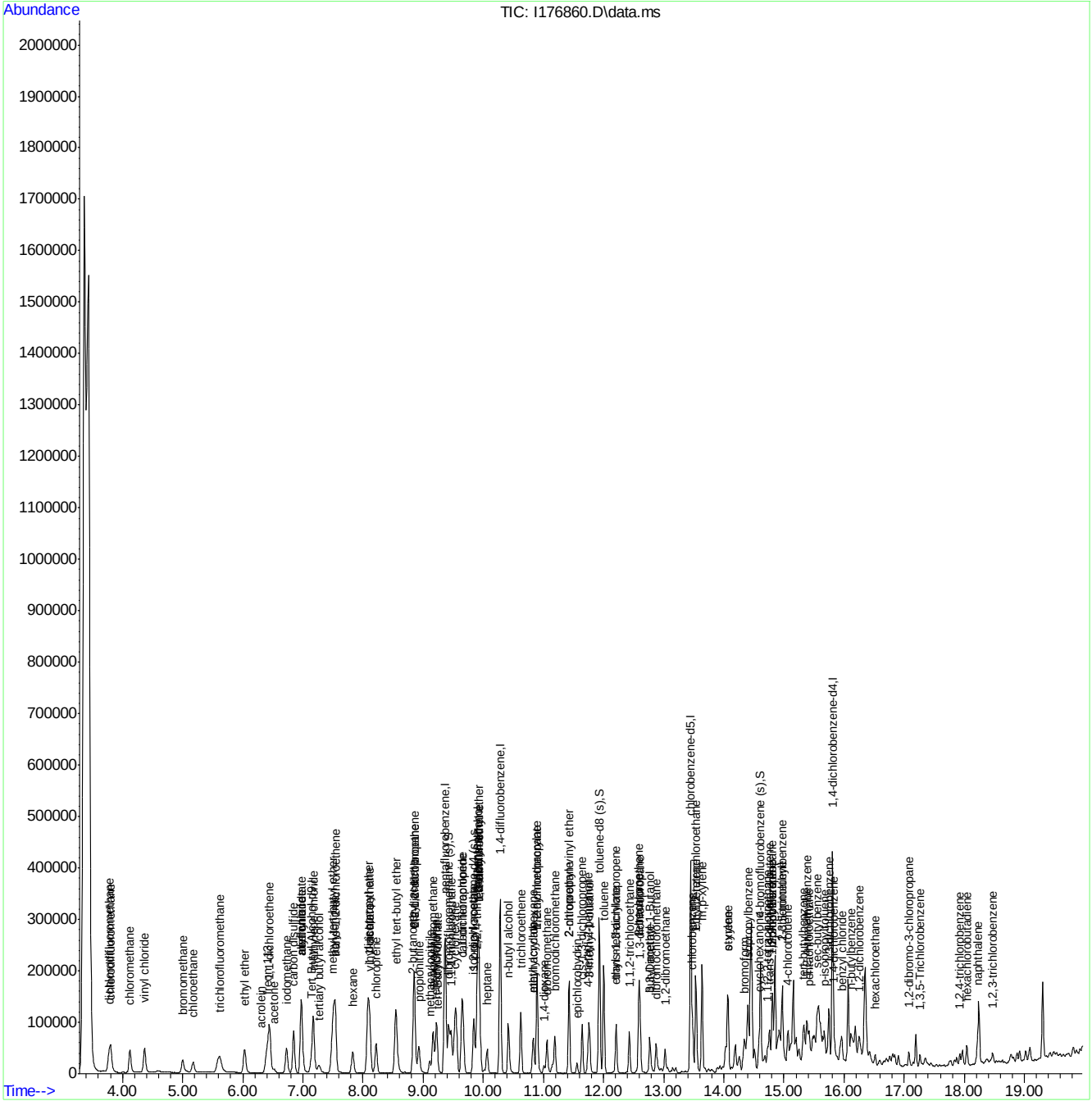
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) cyclohexanone	14.584	55	22696	216.79	ug/L		98
94) 1,1,2,2-tetrachloroethane	14.726	83	24641	28.81	ug/L		98
95) trans-1,4-dichloro-2-b...	14.768	53	7224	31.37	ug/L		78
96) 1,2,3-trichloropropane	14.799	110	7064	36.27	ug/L		67
97) n-propylbenzene	14.815	91	53273	10.61	ug/L		99
98) bromobenzene	14.809	156	14270	13.22	ug/L	#	79
99) 2-chlorotoluene	14.966	126	10997	10.86	ug/L		99
100) 4-chlorotoluene	15.071	91	32623	10.00	ug/L		100
101) 1,3,5-trimethylbenzene	14.971	105	33882	9.48	ug/L		98
102) tert-butylbenzene	15.327	119	28213	9.37	ug/L		98
103) pentachloroethane	15.416	167	7218	11.14	ug/L		97
104) 1,2,4-trimethylbenzene	15.374	105	31481	8.73	ug/L		97
105) sec-butylbenzene	15.547	105	38386	8.41	ug/L		97
106) p-isopropyltoluene	15.672	119	28540	7.60	ug/l		99
107) benzyl chloride	15.960	91	22053	12.18	ug/L		96
108) 1,3-dichlorobenzene	15.751	146	16164	7.87	ug/L		94
109) 1,4-dichlorobenzene	15.840	146	16944	8.15	ug/L		86
110) 1,2-dichlorobenzene	16.253	146	14707	7.82	ug/L		98
111) n-butylbenzene	16.112	92	12659	6.27	ug/L		96
112) hexachloroethane	16.520	119	5243	6.94	ug/L		85
113) 1,2-dibromo-3-chloropr...	17.079	157	3210	19.58	ug/L		94
114) 1,3,5-Trichlorobenzene	17.262	180	7368	4.29	ug/L		99
115) 1,2,4-trichlorobenzene	17.927	180	6194	4.14	ug/L		97
116) hexachlorobutadiene	18.042	225	8412	9.03	ug/L		97
117) naphthalene	18.219	128	16840	6.52	ug/L		99
118) 1,2,3-trichlorobenzene	18.476	180	4894	3.81	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176860.D
Acq On : 31 Aug 2012 8:22 pm
Operator : SCOTTM
Sample : JB15104-1ms,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 04 09:28:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176861.D
Acq On : 31 Aug 2012 8:51 pm
Operator : SCOTTM
Sample : JB15104-1msd,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 04 09:29:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.152	65	61819	50.00	ug/L		0.00
5) pentafluorobenzene	9.365	168	210775	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.280	114	297658	50.00	ug/L		0.00
75) chlorobenzene-d5	13.450	117	207489	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.808	152	92118	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.422	113	61022	50.78	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.56%				
47) 1,2-dichloroethane-d4...	9.846	65	63251	53.31	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.62%				
76) toluene-d8 (s)	11.933	98	201466	55.34	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 110.68%				
91) 4-bromofluorobenzene (s)	14.611	95	61778	51.70	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 103.40%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.262	59	30038	315.98	ug/L		100
3) iso-butyl alcohol	9.914	74	12920	390.58	ug/L	#	58
4) 1,4-dioxane	11.012	88	13956	1692.97	ug/L		97
6) chlorodifluoromethane	3.805	51	61750	45.96	ug/L		96
7) dichlorodifluoromethane	3.779	85	77652	44.38	ug/L		100
8) chloromethane	4.124	50	68761	46.33	ug/L		98
9) vinyl chloride	4.370	62	76005	47.70	ug/L		98
10) bromomethane	5.003	94	22791	35.92	ug/L		99
11) chloroethane	5.175	64	25076	39.23	ug/L		99
12) trichlorofluoromethane	5.620	101	61161	35.21	ug/L		99
13) ethyl ether	6.033	74	25096	45.26	ug/L		95
15) freon 113	6.410	151	27771	29.14	ug/L		97
16) 1,1-dichloroethene	6.446	61	71694	43.43	ug/L		98
17) acetone	6.519	58	4140	51.58	ug/L	#	81
18) iodomethane	6.729	142	67300	34.57	ug/L	#	100
19) carbon disulfide	6.844	TIC	180090	36.30	ug/L		100
20) methyl acetate	6.969	74	18919	155.30	ug/L	#	83
21) allyl chloride	6.980	76	19410	31.57	ug/L	#	62
22) acetonitrile	6.975	41	105603	410.19	ug/L	#	84
23) methylene chloride	7.179	84	50402	43.10	ug/L		98
24) methyl tert butyl ether	7.492	73	134016	46.26	ug/L		100
25) acrylonitrile	7.513	53	61710	260.36	ug/L		99
26) trans-1,2-dichloroethene	7.545	96	45204	36.68	ug/L		99
27) hexane	7.827	57	25429	19.32	ug/L		97
28) di-isopropyl ether	8.083	45	160995	47.96	ug/L		73
29) vinyl acetate	8.115	65	26632	42.24	ug/L	#	100
30) 1,1-dichloroethane	8.115	63	82503	42.58	ug/L		99
31) chloroprene	8.214	53	38967	27.81	ug/L		98
32) ethyl tert-butyl ether	8.549	59	155185	48.47	ug/L		98
33) 2-butanone	8.826	72	3733	39.87	ug/L	#	1
34) ethyl acetate	8.836	45	1130	10.37	ug/L	#	1
35) 2,2-dichloropropane	8.847	77	67915	36.87	ug/L		100
36) cis-1,2-dichloroethene	8.852	96	59731	46.03	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176861.D
Acq On : 31 Aug 2012 8:51 pm
Operator : SCOTTM
Sample : JB15104-1msd,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 04 09:29:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) methacrylonitrile	9.108	67	8829	30.78	ug/L	#	91
38) propionitrile	8.936	54	47421	508.94	ug/L		98
39) bromochloromethane	9.166	128	22095	41.82	ug/L		96
40) tetrahydrofuran	9.197	42	11763	44.94	ug/L		94
41) chloroform	9.224	83	73212	36.12	ug/L		99
42) tert-Butyl Formate	9.250	59	2614	3.41	ug/L	#	1
44) 1,1,1-trichloroethane	9.464	97	62303	35.08	ug/L		99
45) cyclohexane	9.527	84	38649	23.43	ug/L	#	77
48) carbon tetrachloride	9.663	117	47918	31.20	ug/L		99
49) 1,1-dichloropropene	9.642	75	45915	30.16	ug/L		98
50) isopropyl acetate	9.835	61	6680	21.41	ug/L		92
51) benzene	9.909	78	148642	34.08	ug/L		99
52) 2,2,4-trimethylpentane	9.888	57	56846	14.62	ug/L	#	67
53) tert-amyl methyl ether	9.935	73	128250	45.69	ug/L		95
54) 1,2-dichloroethane	9.935	62	53359	41.42	ug/L		100
55) heptane	10.066	57	12380	16.30	ug/L		97
56) n-butyl alcohol	10.416	56	60165	2801.59	ug/L		98
57) trichloroethene	10.625	95	38224	34.20	ug/L		99
58) ethyl acrylate	10.829	55	25327	16.62	ug/L	#	100
59) methyl methacrylate	10.897	69	36380	72.82	ug/L		97
60) 1,2-dichloropropane	10.897	63	35045	34.30	ug/L		100
61) methylcyclohexane	10.829	83	31264	17.43	ug/L		97
62) dibromomethane	11.059	93	21513	38.20	ug/L		98
63) bromodichloromethane	11.190	83	40906	29.76	ug/L		99
64) 2-nitropropane	11.420	41	11536	39.65	ug/L	#	76
65) 2-chloroethyl vinyl ether	11.425	63	61057	171.01	ug/L		98
66) epichlorohydrin	11.556	57	16703	241.83	ug/L		99
67) cis-1,3-dichloropropene	11.645	75	45881	28.01	ug/L		97
68) 4-methyl-2-pentanone	11.745	58	13329	48.75	ug/L		94
69) 3-methyl-1-butanol	11.765	70	19710	882.19	ug/L		93
70) toluene	12.001	91	163743	36.67	ug/L		99
71) trans-1,3-dichloropropene	12.210	75	36176	25.76	ug/L		99
72) ethyl methacrylate	12.200	69	8641	9.17	ug/L		98
73) 1,1,2-trichloroethane	12.430	83	20660	32.62	ug/L		98
74) 2-hexanone	12.597	58	9766	40.60	ug/L		95
77) tetrachloroethene	12.587	166	38445	36.09	ug/L		99
78) 1,3-dichloropropane	12.613	76	35845	32.80	ug/L		99
79) butyl acetate	12.649	56	932	2.26	ug/L	#	1
80) 3,3-Dimethyl-1-Butanol	12.770	57	35982	603.90	ug/L		94
81) dibromochloromethane	12.874	129	20254	23.85	ug/L		99
82) 1,2-dibromoethane	13.026	107	20218	29.74	ug/L	#	98
83) chlorobenzene	13.481	112	37483	15.22	ug/L		99
84) 1,1,1,2-tetrachloroethane	13.544	131	16178	18.43	ug/L		97
85) ethylbenzene	13.533	91	64756	15.22	ug/L		99
86) m,p-xylene	13.638	106	44075	27.43	ug/L		93
87) o-xylene	14.062	106	20667	13.13	ug/L		97
88) styrene	14.072	104	27812	11.19	ug/L		97
89) bromoform	14.349	173	8877	17.66	ug/L		96
92) isopropylbenzene	14.401	105	44313	11.66	ug/L		98
93) cyclohexanone	14.585	55	24722	265.85	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176861.D
Acq On : 31 Aug 2012 8:51 pm
Operator : SCOTTM
Sample : JB15104-1msd,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 04 09:29:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

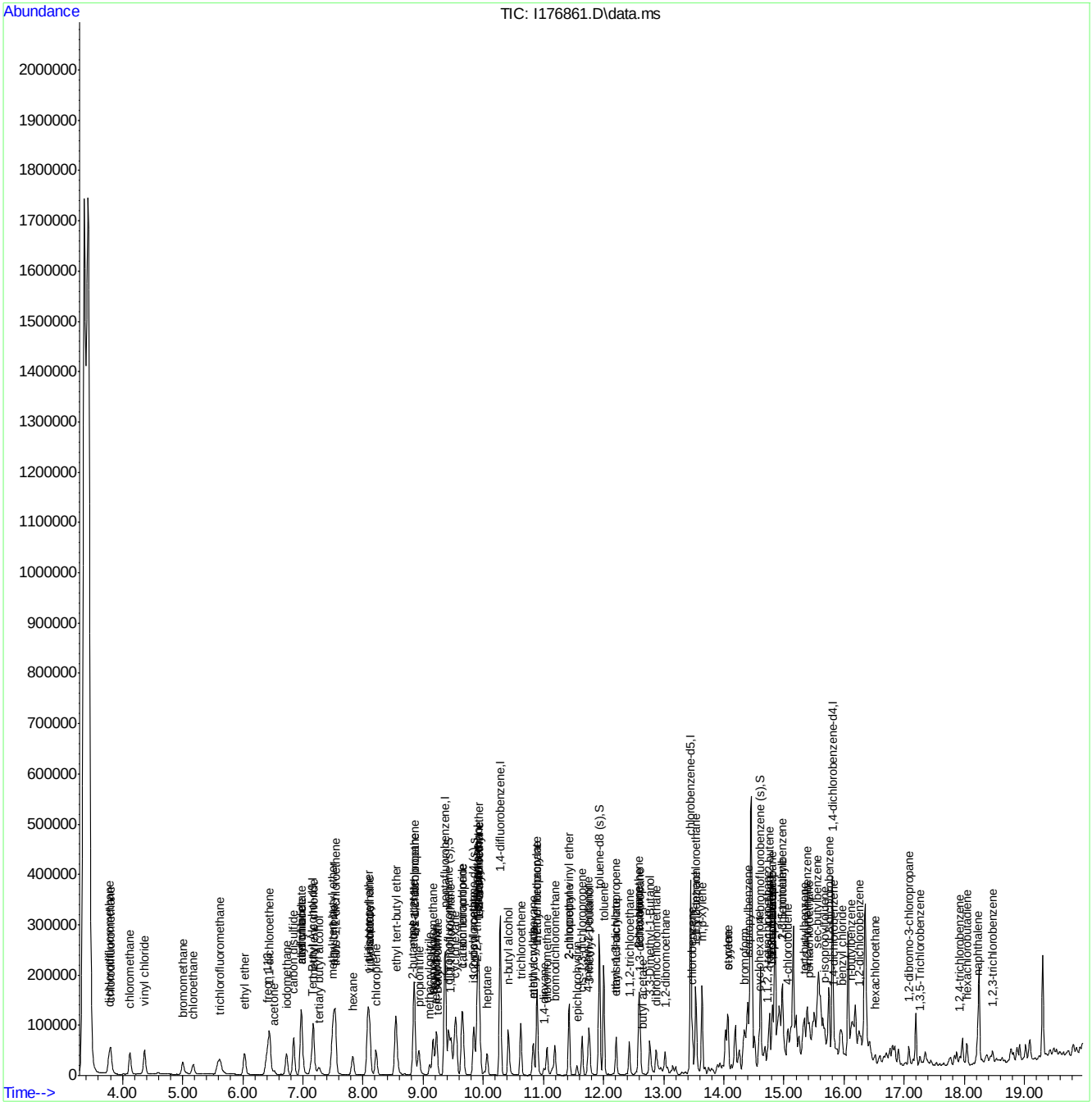
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.726	83	22915	30.17	ug/L		98
95) trans-1,4-dichloro-2-b...	14.762	53	6172	30.17	ug/L	#	58
96) 1,2,3-trichloropropane	14.799	110	5580	32.26	ug/L	#	60
97) n-propylbenzene	14.815	91	41333	9.26	ug/L		98
98) bromobenzene	14.809	156	10582	11.03	ug/L	#	76
99) 2-chlorotoluene	14.972	126	9123	10.14	ug/L		97
100) 4-chlorotoluene	15.071	91	25332	8.74	ug/L		99
101) 1,3,5-trimethylbenzene	14.972	105	26495	8.35	ug/L		99
102) tert-butylbenzene	15.327	119	21550	8.05	ug/L		99
103) pentachloroethane	15.416	167	5440	9.45	ug/L		97
104) 1,2,4-trimethylbenzene	15.374	105	24874	7.77	ug/L		92
105) sec-butylbenzene	15.552	105	29366	7.24	ug/L		99
106) p-isopropyltoluene	15.672	119	22721	6.81	ug/l		100
107) benzyl chloride	15.965	91	16120	10.03	ug/L		94
108) 1,3-dichlorobenzene	15.751	146	12375	6.78	ug/L		86
109) 1,4-dichlorobenzene	15.840	146	12852	6.96	ug/L		81
110) 1,2-dichlorobenzene	16.253	146	11151	6.67	ug/L		93
111) n-butylbenzene	16.112	92	9849	5.50	ug/L		97
112) hexachloroethane	16.520	119	4257	6.34	ug/L	#	78
113) 1,2-dibromo-3-chloropr...	17.079	157	2435	16.72	ug/L		98
114) 1,3,5-Trichlorobenzene	17.262	180	5885	3.86	ug/L		99
115) 1,2,4-trichlorobenzene	17.927	180	4745	3.57	ug/L		99
116) hexachlorobutadiene	18.042	225	9601	11.60	ug/L		100
117) naphthalene	18.220	128	13554	5.91	ug/L		98
118) 1,2,3-trichlorobenzene	18.476	180	3836	3.36	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176861.D
Acq On : 31 Aug 2012 8:51 pm
Operator : SCOTTM
Sample : JB15104-1msd,VTCL11n
Misc : MS35002,VI7141,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 04 09:29:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176889.D
Acq On : 1 Sep 2012 2:14 pm
Operator : SCOTTM
Sample : JB15104-2ms,VTCL11nMS
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Sep 04 11:09:44 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.152	65	62018	50.00	ug/L		0.00
5) pentafluorobenzene	9.365	168	225436	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.280	114	321645	50.00	ug/L		0.00
75) chlorobenzene-d5	13.449	117	226270	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.808	152	106310	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.422	113	65382	50.87	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.74%				
47) 1,2-dichloroethane-d4...	9.841	65	67838	52.91	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.82%				
76) toluene-d8 (s)	11.927	98	219233	55.22	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 110.44%				
91) 4-bromofluorobenzene (s)	14.611	95	69192	50.17	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.34%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.262	59	33365	349.85	ug/L		99
3) iso-butyl alcohol	9.914	74	14652	441.52	ug/L	#	54
4) 1,4-dioxane	11.007	88	16225	1961.90	ug/L		93
6) chlorodifluoromethane	3.800	51	64528	44.91	ug/L		96
7) dichlorodifluoromethane	3.773	85	81573	43.59	ug/L		98
8) chloromethane	4.119	50	70697	44.54	ug/L		99
9) vinyl chloride	4.365	62	76244	44.74	ug/L		98
10) bromomethane	4.997	94	19903	29.33	ug/L		96
11) chloroethane	5.170	64	24121	35.28	ug/L		97
12) trichlorofluoromethane	5.615	101	62568	33.68	ug/L		99
13) ethyl ether	6.033	74	27115	45.72	ug/L		93
15) freon 113	6.404	151	27224	26.71	ug/L		95
16) 1,1-dichloroethene	6.441	61	77843	44.08	ug/L		98
17) acetone	6.519	58	3504	40.81	ug/L	#	74
18) iodomethane	6.729	142	58988	28.33	ug/L	#	100
19) carbon disulfide	6.844	TIC	181165	34.14	ug/L		100
20) methyl acetate	6.969	74	18601	142.76	ug/L	#	77
21) allyl chloride	6.980	76	17461	26.56	ug/L	#	55
22) acetonitrile	6.974	41	106904	388.24	ug/L	#	82
23) methylene chloride	7.173	84	54849	43.85	ug/L		95
24) methyl tert butyl ether	7.492	73	147140	47.49	ug/L		99
25) acrylonitrile	7.513	53	58837	232.10	ug/L		99
26) trans-1,2-dichloroethene	7.539	96	48044	36.45	ug/L		94
27) hexane	7.827	57	21154	15.03	ug/L		96
28) di-isopropyl ether	8.083	45	181833	50.64	ug/L		73
29) vinyl acetate	8.115	65	29718	44.07	ug/L	#	100
30) 1,1-dichloroethane	8.115	63	92375	44.57	ug/L		99
31) chloroprene	8.214	53	39124	26.10	ug/L		97
32) ethyl tert-butyl ether	8.549	59	173235	50.59	ug/L		97
33) 2-butanone	8.821	72	2956	29.52	ug/L	#	1
34) ethyl acetate	8.993	45	1795	15.41	ug/L	#	1
35) 2,2-dichloropropane	8.847	77	69636	35.34	ug/L		99
36) cis-1,2-dichloroethene	8.852	96	58461	42.12	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176889.D
Acq On : 1 Sep 2012 2:14 pm
Operator : SCOTTM
Sample : JB15104-2ms,VTCL11nMS
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Sep 04 11:09:44 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) methacrylonitrile	9.108	67	4260	13.88	ug/L	#	84
38) propionitrile	8.936	54	39357	394.92	ug/L		99
39) bromochloromethane	9.166	128	24054	42.57	ug/L		90
40) tetrahydrofuran	9.197	42	12668	45.25	ug/L		94
41) chloroform	9.218	83	84215	38.84	ug/L		99
44) 1,1,1-trichloroethane	9.464	97	68528	36.08	ug/L		98
45) cyclohexane	9.527	84	37841	21.45	ug/L		90
48) carbon tetrachloride	9.663	117	50769	30.59	ug/L		99
49) 1,1-dichloropropene	9.642	75	51502	31.31	ug/L		99
50) isopropyl acetate	9.835	61	3526	10.46	ug/L	#	79
51) benzene	9.903	78	171713	36.43	ug/L		99
52) 2,2,4-trimethylpentane	9.888	57	45800	10.90	ug/L	#	67
53) tert-amyl methyl ether	9.930	73	143247	47.23	ug/L		95
54) 1,2-dichloroethane	9.930	62	61126	43.91	ug/L		98
55) heptane	10.065	57	9477	11.55	ug/L		97
56) n-butyl alcohol	10.416	56	62957	2712.97	ug/L		98
57) trichloroethene	10.620	95	42114	34.88	ug/L		95
58) ethyl acrylate	10.829	55	22766	13.83	ug/L	#	88
59) methyl methacrylate	10.892	69	41357	76.61	ug/L		96
60) 1,2-dichloropropane	10.897	63	42298	38.31	ug/L		97
61) methylcyclohexane	10.829	83	27322	14.10	ug/L		95
62) dibromomethane	11.059	93	25239	41.48	ug/L		97
63) bromodichloromethane	11.190	83	49201	33.12	ug/L		98
64) 2-nitropropane	11.420	41	12620	40.14	ug/L	#	86
65) 2-chloroethyl vinyl ether	11.425	63	72090	186.86	ug/L		97
66) epichlorohydrin	11.556	57	15171	203.27	ug/L		100
67) cis-1,3-dichloropropene	11.645	75	51164	28.90	ug/L		99
68) 4-methyl-2-pentanone	11.739	58	13480	45.62	ug/L		92
69) 3-methyl-1-butanol	11.765	70	19653	817.90	ug/L		89
70) toluene	12.001	91	142880	29.62	ug/L		100
71) trans-1,3-dichloropropene	12.210	75	41788	27.53	ug/L		98
72) ethyl methacrylate	12.199	69	2722	2.67	ug/L		96
73) 1,1,2-trichloroethane	12.430	83	23879	34.89	ug/L		96
74) 2-hexanone	12.597	58	7939	30.54	ug/L		99
77) tetrachloroethene	12.586	166	40344	34.73	ug/L		99
78) 1,3-dichloropropane	12.613	76	44235	37.12	ug/L		100
79) butyl acetate	12.770	56	16558	36.74	ug/L	#	1
80) 3,3-Dimethyl-1-Butanol	12.770	57	35814	551.19	ug/L		97
81) dibromochloromethane	12.874	129	25834	27.90	ug/L		100
82) 1,2-dibromoethane	13.026	107	25216	34.01	ug/L	#	100
83) chlorobenzene	13.481	112	52324	19.48	ug/L		98
84) 1,1,1,2-tetrachloroethane	13.544	131	22341	23.34	ug/L		96
85) ethylbenzene	13.533	91	87855	18.94	ug/L		100
86) m,p-xylene	13.638	106	61387	35.04	ug/L		95
87) o-xylene	14.061	106	29629	17.26	ug/L		96
88) styrene	14.072	104	39006	14.39	ug/L		95
89) bromoform	14.349	173	12118	22.10	ug/L		95
92) isopropylbenzene	14.401	105	63895	14.57	ug/L		99
93) cyclohexanone	14.584	55	6750	62.90	ug/L		94
94) 1,1,2,2-tetrachloroethane	14.726	83	26260	29.95	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176889.D
Acq On : 1 Sep 2012 2:14 pm
Operator : SCOTTM
Sample : JB15104-2ms,VTCL11nMS
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Sep 04 11:09:44 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

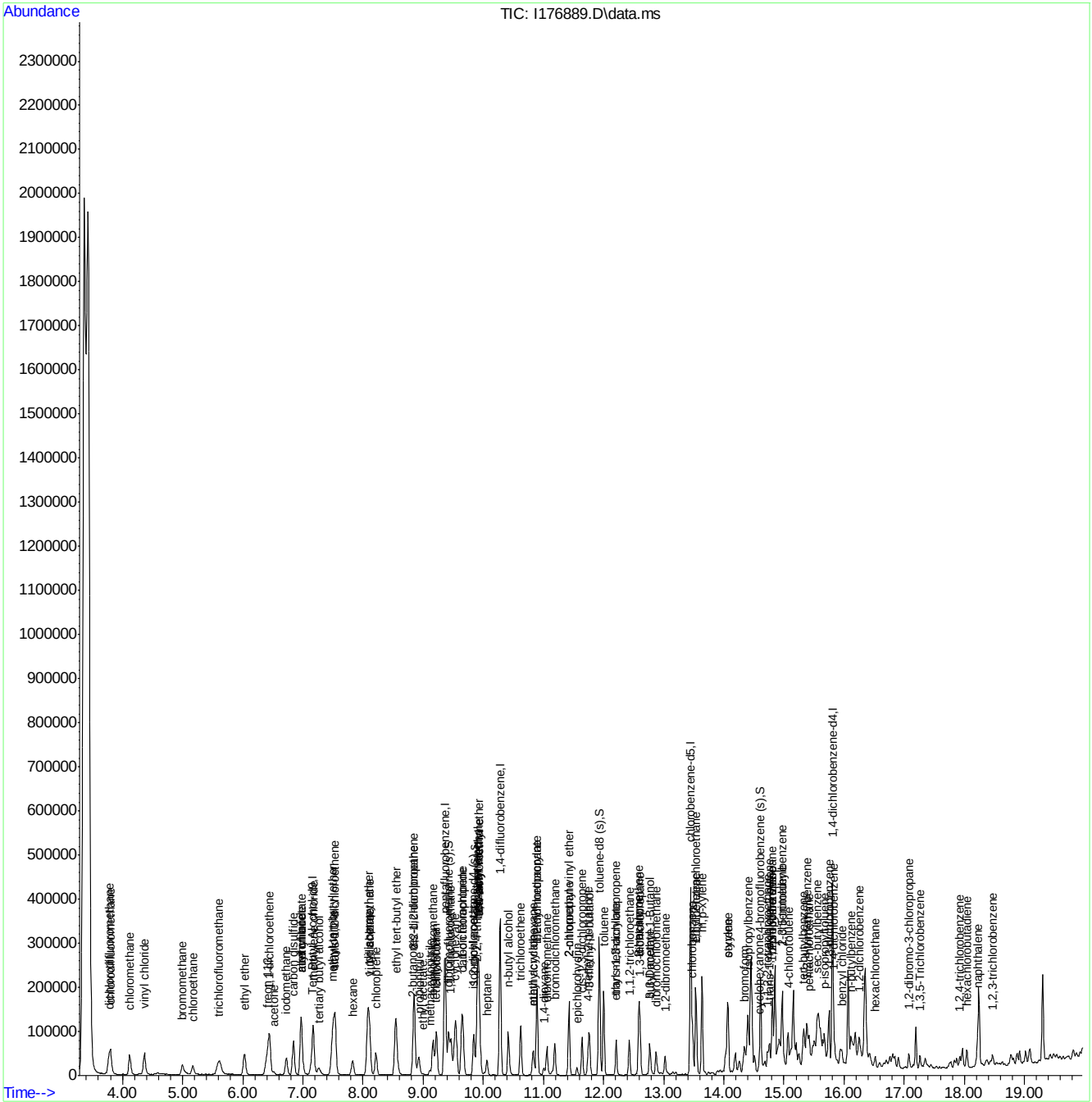
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) trans-1,4-dichloro-2-b...	14.767	53	4846	20.53 ug/L #	77
96) 1,2,3-trichloropropane	14.799	110	6710	33.61 ug/L	77
97) n-propylbenzene	14.815	91	60869	11.82 ug/L	98
98) bromobenzene	14.809	156	16084	14.53 ug/L #	83
99) 2-chlorotoluene	14.971	126	13034	12.55 ug/L	98
100) 4-chlorotoluene	15.071	91	39430	11.79 ug/L	98
101) 1,3,5-trimethylbenzene	14.971	105	40863	11.16 ug/L	100
102) tert-butylbenzene	15.327	119	32355	10.48 ug/L	96
103) pentachloroethane	15.421	167	8569	12.90 ug/L	98
104) 1,2,4-trimethylbenzene	15.374	105	39110	10.58 ug/L	93
105) sec-butylbenzene	15.547	105	43363	9.27 ug/L	99
106) p-isopropyltoluene	15.672	119	33276	8.64 ug/l	99
107) benzyl chloride	15.965	91	8346	4.50 ug/L	84
108) 1,3-dichlorobenzene	15.751	146	19588	9.30 ug/L	93
109) 1,4-dichlorobenzene	15.834	146	20244	9.50 ug/L	90
110) 1,2-dichlorobenzene	16.253	146	17739	9.20 ug/L	97
111) n-butylbenzene	16.112	92	14952	7.23 ug/L	99
112) hexachloroethane	16.520	119	6237	8.05 ug/L	84
113) 1,2-dibromo-3-chloropr...	17.074	157	3538	21.05 ug/L	98
114) 1,3,5-Trichlorobenzene	17.262	180	8777	4.99 ug/L	99
115) 1,2,4-trichlorobenzene	17.927	180	6908	4.50 ug/L	98
116) hexachlorobutadiene	18.042	225	8774	9.18 ug/L	100
117) naphthalene	18.214	128	20627	7.79 ug/L	98
118) 1,2,3-trichlorobenzene	18.476	180	5374	4.08 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176889.D
Acq On : 1 Sep 2012 2:14 pm
Operator : SCOTTM
Sample : JB15104-2ms,VTCL11nMS
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Sep 04 11:09:44 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176890.D
Acq On : 1 Sep 2012 2:43 pm
Operator : SCOTTM
Sample : JB15104-2msd,VTCL11n
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 04 11:10:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.152	65	60310	50.00	ug/L		0.00
5) pentafluorobenzene	9.365	168	227552	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.280	114	321547	50.00	ug/L		0.00
75) chlorobenzene-d5	13.450	117	224390	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.809	152	104591	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.422	113	65980	50.86	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.72%				
47) 1,2-dichloroethane-d4...	9.841	65	68270	53.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.52%				
76) toluene-d8 (s)	11.928	98	218139	55.40	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 110.80%				
91) 4-bromofluorobenzene (s)	14.611	95	69029	50.88	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 101.76%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.268	59	32608	351.60	ug/L		100
3) iso-butyl alcohol	9.914	74	15195	470.85	ug/L	#	47
4) 1,4-dioxane	11.007	88	15286	1900.70	ug/L		92
6) chlorodifluoromethane	3.805	51	71604	49.37	ug/L		97
7) dichlorodifluoromethane	3.779	85	88545	46.88	ug/L		99
8) chloromethane	4.124	50	78128	48.76	ug/L		99
9) vinyl chloride	4.370	62	84564	49.16	ug/L		99
10) bromomethane	5.003	94	21895	31.97	ug/L		99
11) chloroethane	5.175	64	26980	39.10	ug/L		98
12) trichlorofluoromethane	5.620	101	65061	34.70	ug/L		99
13) ethyl ether	6.033	74	28224	47.15	ug/L		94
15) freon 113	6.405	151	27062	26.30	ug/L		97
16) 1,1-dichloroethene	6.446	61	83086	46.62	ug/L		98
17) acetone	6.520	58	3956	45.65	ug/L		89
18) iodomethane	6.729	142	61643	29.33	ug/L	#	100
19) carbon disulfide	6.844	TIC	198310	37.02	ug/L		100
20) methyl acetate	6.975	74	20091	152.76	ug/L	#	82
21) allyl chloride	6.980	76	18123	27.31	ug/L	#	49
22) acetonitrile	6.975	41	108809	391.48	ug/L	#	81
23) methylene chloride	7.179	84	57914	45.87	ug/L		97
24) methyl tert butyl ether	7.492	73	153183	48.98	ug/L		99
25) acrylonitrile	7.519	53	61236	239.31	ug/L		99
26) trans-1,2-dichloroethene	7.545	96	50302	37.81	ug/L		94
27) hexane	7.827	57	19249	13.55	ug/L		96
28) di-isopropyl ether	8.083	45	190351	52.52	ug/L		73
29) vinyl acetate	8.115	65	31249	45.91	ug/L	#	100
30) 1,1-dichloroethane	8.115	63	97830	46.76	ug/L		100
31) chloroprene	8.214	53	36553	24.16	ug/L		97
32) ethyl tert-butyl ether	8.549	59	180645	52.27	ug/L		98
33) 2-butanone	8.831	72	2995	29.63	ug/L	#	1
34) ethyl acetate	8.993	45	1799	15.30	ug/L	#	1
35) 2,2-dichloropropane	8.847	77	72663	36.54	ug/L		99
36) cis-1,2-dichloroethene	8.852	96	62346	44.51	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176890.D
Acq On : 1 Sep 2012 2:43 pm
Operator : SCOTTM
Sample : JB15104-2msd,VTCL11n
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 04 11:10:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) methacrylonitrile	9.109	67	5118	16.53	ug/L	#	86
38) propionitrile	8.936	54	42138	418.89	ug/L		99
39) bromochloromethane	9.166	128	25046	43.91	ug/L		93
40) tetrahydrofuran	9.197	42	12691	44.91	ug/L		94
41) chloroform	9.224	83	87500	39.98	ug/L		100
42) tert-Butyl Formate	9.464	59	901	1.09	ug/L	#	25
44) 1,1,1-trichloroethane	9.464	97	70496	36.77	ug/L		99
45) cyclohexane	9.532	84	35322	19.84	ug/L	#	78
48) carbon tetrachloride	9.663	117	50641	30.53	ug/L		100
49) 1,1-dichloropropene	9.642	75	51918	31.57	ug/L		98
50) isopropyl acetate	9.836	61	3907	11.59	ug/L		78
51) benzene	9.909	78	176145	37.39	ug/L		98
52) 2,2,4-trimethylpentane	9.888	57	39166	9.32	ug/L	#	66
53) tert-amyl methyl ether	9.935	73	146636	48.36	ug/L		95
54) 1,2-dichloroethane	9.930	62	62059	44.59	ug/L		99
55) heptane	10.060	57	8273	10.08	ug/L		96
56) n-butyl alcohol	10.416	56	61808	2664.27	ug/L		97
57) trichloroethene	10.620	95	42051	34.83	ug/L		94
58) ethyl acrylate	10.835	55	20480	12.44	ug/L	#	88
59) methyl methacrylate	10.892	69	42009	77.84	ug/L		97
60) 1,2-dichloropropane	10.897	63	43193	39.14	ug/L		98
61) methylcyclohexane	10.829	83	24428	12.61	ug/L		97
62) dibromomethane	11.059	93	24965	41.04	ug/L		97
63) bromodichloromethane	11.190	83	49196	33.13	ug/L		99
64) 2-nitropropane	11.420	41	12000	38.18	ug/L	#	82
65) 2-chloroethyl vinyl ether	11.426	63	64402	166.98	ug/L		97
66) epichlorohydrin	11.556	57	14684	196.81	ug/L		99
67) cis-1,3-dichloropropene	11.645	75	50705	28.65	ug/L		97
68) 4-methyl-2-pentanone	11.745	58	13784	46.66	ug/L		94
69) 3-methyl-1-butanol	11.766	70	19711	820.40	ug/L		91
70) toluene	12.001	91	142978	29.64	ug/L		100
71) trans-1,3-dichloropropene	12.210	75	39970	26.34	ug/L		97
72) ethyl methacrylate	12.200	69	3152	3.10	ug/L		92
73) 1,1,2-trichloroethane	12.430	83	23522	34.38	ug/L		97
74) 2-hexanone	12.597	58	8246	31.73	ug/L		97
77) tetrachloroethene	12.587	166	36237	31.45	ug/L		97
78) 1,3-dichloropropane	12.613	76	42743	36.17	ug/L		99
79) butyl acetate	12.770	56	17187	38.46	ug/L	#	1
80) 3,3-Dimethyl-1-Butanol	12.770	57	37035	574.76	ug/L		97
81) dibromochloromethane	12.874	129	24504	26.68	ug/L		100
82) 1,2-dibromoethane	13.026	107	23995	32.64	ug/L	#	99
83) chlorobenzene	13.481	112	50347	18.90	ug/L		98
84) 1,1,1,2-tetrachloroethane	13.544	131	21499	22.65	ug/L		98
85) ethylbenzene	13.533	91	82823	18.00	ug/L		98
86) m,p-xylene	13.638	106	58140	33.46	ug/L		94
87) o-xylene	14.062	106	27951	16.42	ug/L		97
88) styrene	14.072	104	35953	13.37	ug/L		96
89) bromoform	14.344	173	11042	20.31	ug/L		99
92) isopropylbenzene	14.402	105	59426	13.77	ug/L		98
93) cyclohexanone	14.585	55	7572	71.72	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176890.D
Acq On : 1 Sep 2012 2:43 pm
Operator : SCOTTM
Sample : JB15104-2msd,VTCL11n
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 04 11:10:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration

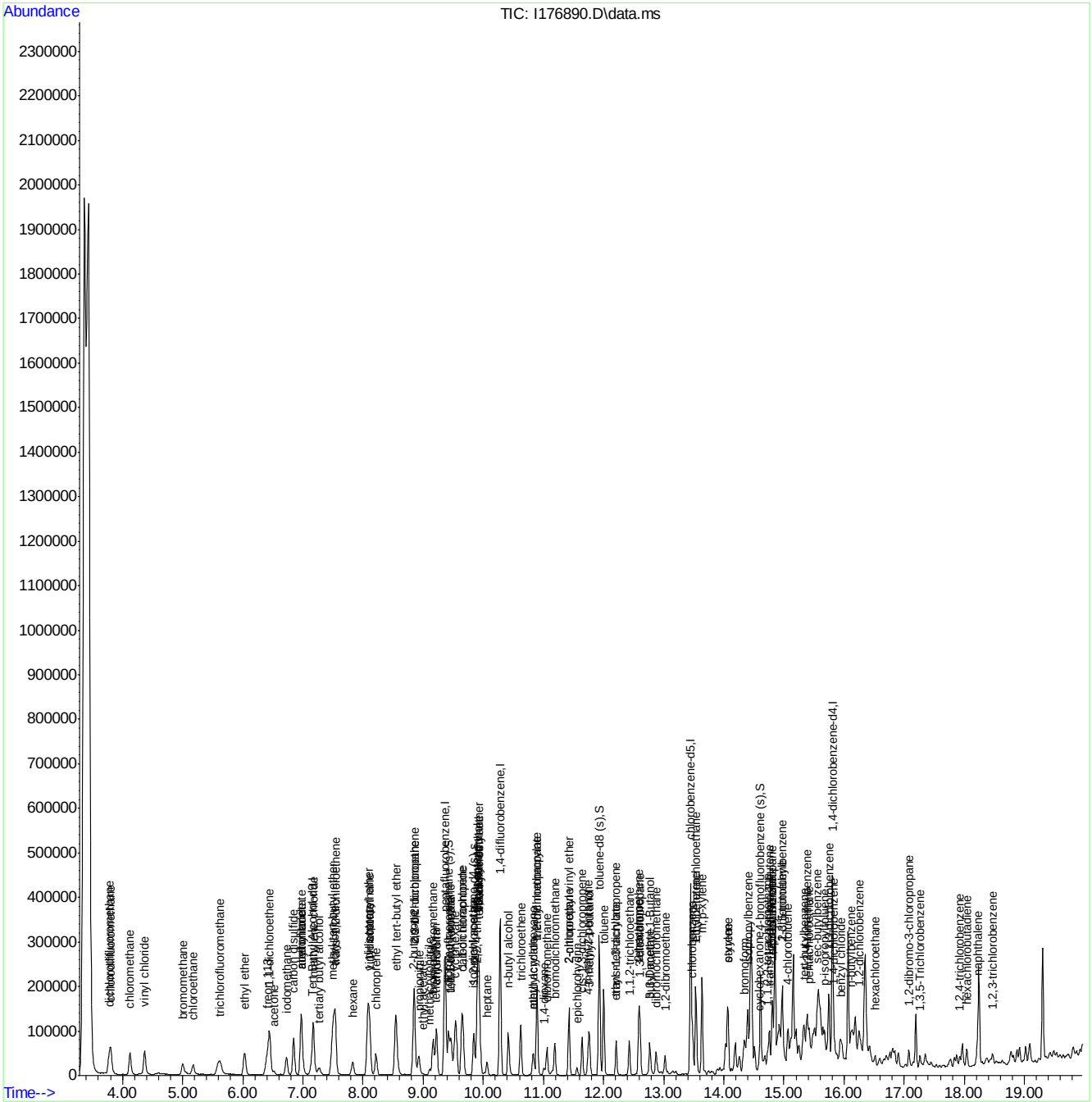
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.726	83	25766	29.87	ug/L		97
95) trans-1,4-dichloro-2-b...	14.762	53	5126	22.07	ug/L	#	56
96) 1,2,3-trichloropropane	14.799	110	6850	34.88	ug/L	#	47
97) n-propylbenzene	14.815	91	55704	11.00	ug/L		98
98) bromobenzene	14.810	156	15291	14.04	ug/L	#	82
99) 2-chlorotoluene	14.966	126	12419	12.16	ug/L		98
100) 4-chlorotoluene	15.071	91	36342	11.05	ug/L		98
101) 1,3,5-trimethylbenzene	14.972	105	37436	10.39	ug/L		97
102) tert-butylbenzene	15.327	119	28755	9.47	ug/L		98
103) pentachloroethane	15.421	167	8011	12.26	ug/L		98
104) 1,2,4-trimethylbenzene	15.374	105	36002	9.90	ug/L		98
105) sec-butylbenzene	15.547	105	37952	8.25	ug/L		99
106) p-isopropyltoluene	15.673	119	29861	7.88	ug/l		98
107) benzyl chloride	15.960	91	9597	5.26	ug/L		92
108) 1,3-dichlorobenzene	15.751	146	18050	8.71	ug/L		90
109) 1,4-dichlorobenzene	15.840	146	18964	9.04	ug/L		84
110) 1,2-dichlorobenzene	16.253	146	16425	8.65	ug/L		96
111) n-butylbenzene	16.112	92	13013	6.40	ug/L		100
112) hexachloroethane	16.520	119	4485	5.88	ug/L		97
113) 1,2-dibromo-3-chloropr...	17.079	157	3192	19.30	ug/L		96
114) 1,3,5-Trichlorobenzene	17.262	180	8004	4.62	ug/L		100
115) 1,2,4-trichlorobenzene	17.927	180	6374	4.22	ug/L		98
116) hexachlorobutadiene	18.042	225	9194	9.78	ug/L		97
117) naphthalene	18.220	128	18941	7.27	ug/L		99
118) 1,2,3-trichlorobenzene	18.476	180	4922	3.80	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176890.D
Acq On : 1 Sep 2012 2:43 pm
Operator : SCOTTM
Sample : JB15104-2msd,VTCL11n
Misc : MS35002,VI7142,4.3,,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 04 11:10:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 10:45:16 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87174.D
Acq On : 7 Sep 2012 3:51 pm
Operator : tarar1
Sample : jb15337-8ms
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 12:42:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	107478	500.00	ug/L		-0.02
5) pentafluorobenzene	10.37	168	227661	50.00	ug/L		0.00
63) 1,4-difluorobenzene	11.33	114	292273	50.00	ug/L		0.00
93) chlorobenzene-d5	14.66	117	272740	50.00	ug/L		0.00
109) 1,4-dichlorobenzene-d4	17.14	152	160266	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.41	113	80859	48.69	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 97.38%				
56) 1,2-dichloroethane-d4 (s)	10.85	65	99333	41.26	ug/L		0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 82.52%				
85) toluene-d8 (s)	13.05	98	307853	54.74	ug/L		0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 109.48%				
111) 4-bromofluorobenzene (s)	15.90	95	114412	47.75	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 95.50%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	8.05	59	56473	256.94	ug/L		100
4) 1,4-dioxane	12.07	88	25991	1403.95	ug/L		91
11) chlorodifluoromethane	4.08	51	49553	31.96	ug/L		98
12) dichlorodifluoromethane	4.05	85	102969	42.39	ug/L		98
15) chloromethane	4.44	50	87032	42.94	ug/L		100
16) vinyl chloride	4.74	62	85445	47.17	ug/L		99
18) bromomethane	5.44	94	61201	46.83	ug/L		99
19) chloroethane	5.63	64	41910	46.42	ug/L		95
21) trichlorofluoromethane	6.20	101	127275	41.72	ug/L		98
23) ethyl ether	6.64	74	40055	47.25	ug/L		94
27) acrolein	6.92	56	155446	467.27	ug/L		100
28) 1,1-dichloroethene	7.13	96	61784	42.48	ug/L		86
29) acetone	7.19	43	29010	46.98	ug/L		93
30) allyl chloride	7.71	76	43476	47.40	ug/L	#	67
31) acetonitrile	7.70	40	64980	510.74	ug/L	#	45
32) iodomethane	7.42	142	140432	49.09	ug/L		97
33) iso-butyl alcohol	10.93	74	22537	421.43	ug/L	#	50
34) carbon disulfide	7.58	76	205918	49.17	ug/L		90
35) methylene chloride	7.94	84	73909	45.84	ug/L		90
36) methyl acetate	7.71	74	15887	48.26	ug/L	#	70
37) methyl tert butyl ether	8.31	73	234028	44.63	ug/L		98
38) trans-1,2-dichloroethene	8.36	96	64465	45.18	ug/L		90
39) di-isopropyl ether	8.99	45	206050	43.13	ug/L		91
40) 2-butanone	9.77	72	11415	49.61	ug/L	#	36
41) 1,1-dichloroethane	8.99	63	120746	45.60	ug/L		98
42) chloroprene	9.11	53	85507	37.02	ug/L		90
43) acrylonitrile	8.30	53	166093	250.22	ug/L		94
44) vinyl acetate	8.99	86	13191	43.59	ug/L		69
45) ethyl tert-butyl ether	9.50	59	229805	42.47	ug/L		94
46) ethyl acetate	9.80	45	13166	44.51	ug/L		75
47) 2,2-dichloropropane	9.80	77	114721	46.47	ug/L		93
48) cis-1,2-dichloroethene	9.80	96	79132	49.63	ug/L		91
49) propionitrile	9.86	54	137625	518.14	ug/L		75

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87174.D
Acq On : 7 Sep 2012 3:51 pm
Operator : tarar1
Sample : jb15337-8ms
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 12:42:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) methylacrylate	9.88	55	94812	48.93	ug/L		91
51) bromochloromethane	10.13	128	45291	48.66	ug/L		99
52) tetrahydrofuran	10.19	42	29389	44.38	ug/L		97
53) chloroform	10.20	83	129377	42.01	ug/L		97
54) t-butyl formate	10.23	59	64623	34.30	ug/L	#	93
57) freon 113	7.09	151	61539	43.90	ug/L		87
58) methacrylonitrile	10.06	41	49613	42.01	ug/L		97
59) 1,1,1-trichloroethane	10.46	97	116335	41.81	ug/L		99
60) Cyclohexane	10.54	84	93249	48.52	ug/L		89
62) iso-octane	10.94	57	207938	47.53	ug/L		92
65) epichlorohydrin	12.64	57	50226	253.20	ug/L		98
66) n-butyl alcohol	11.47	56	147113	2591.82	ug/L		97
67) carbon tetrachloride	10.68	117	111063	41.08	ug/L		95
68) 1,1-dichloropropene	10.65	75	91175	44.22	ug/L		97
69) hexane	8.71	57	73630	43.43	ug/L		98
70) benzene	10.93	78	257126	45.97	ug/L		98
71) tert-amyl methyl ether	10.97	73	211302	41.13	ug/L		99
72) heptane	11.12	57	44514	47.32	ug/L		96
73) isopropyl acetate	10.86	43	142910	43.42	ug/L		96
74) 1,2-dichloroethane	10.94	62	106522	40.86	ug/L		96
76) trichloroethene	11.68	95	75489	46.75	ug/L		99
77) 2-nitropropane	12.87	46	4580	54.46	ug/L	#	75
78) 2-chloroethyl vinyl ether	12.52	63	2581	2.68	ug/L		94
79) methyl methacrylate	11.96	69	58012	50.22	ug/L	#	77
80) 1,2-dichloropropane	11.95	63	68454	48.94	ug/L		92
81) dibromomethane	12.12	93	52362	47.36	ug/L		100
82) methylcyclohexane	11.91	83	111339	48.63	ug/L		97
83) bromodichloromethane	12.26	83	108183	43.63	ug/L		98
84) cis-1,3-dichloropropene	12.74	75	130676	48.78	ug/L		90
86) 4-methyl-2-pentanone	12.84	58	37743	52.77	ug/L	#	82
87) toluene	13.13	92	176302	47.00	ug/L		97
88) 3-methyl-1-butanol	12.87	55	96663	1072.09	ug/L		94
89) trans-1,3-dichloropropene	13.33	75	125496	44.65	ug/L		92
90) ethyl methacrylate	13.33	69	106930	51.81	ug/L		92
91) 1,1,2-trichloroethane	13.56	83	60570	50.38	ug/L		97
92) 2-hexanone	13.75	58	33523	54.09	ug/L		91
94) tetrachloroethene	13.75	164	77478	46.72	ug/L		94
95) 3,3-dimethyl-1-butanol	13.94	57	101158	512.76	ug/L		97
96) 1,3-dichloropropane	13.76	76	116886	47.70	ug/L		87
97) butyl acetate	13.83	56	55724	50.45	ug/L	#	82
98) dibromochloromethane	14.04	129	104342	47.70	ug/L		99
99) 1,2-dibromoethane	14.20	107	87296	49.97	ug/L		95
101) chlorobenzene	14.69	112	220877	47.08	ug/L		98
102) 1,1,1,2-tetrachloroethane	14.76	131	90662	46.82	ug/L		94
103) ethylbenzene	14.75	91	334840	45.89	ug/L		98
104) m,p-xylene	14.87	106	276756	92.91	ug/L		100
105) o-xylene	15.31	106	145065	46.58	ug/L		97
107) styrene	15.32	104	241126	47.91	ug/L		95
108) bromoform	15.61	173	90039	49.49	ug/L		96
110) isopropylbenzene	15.68	105	374271	47.89	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87174.D
Acq On : 7 Sep 2012 3:51 pm
Operator : tarar1
Sample : jb15337-8ms
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 12:42:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

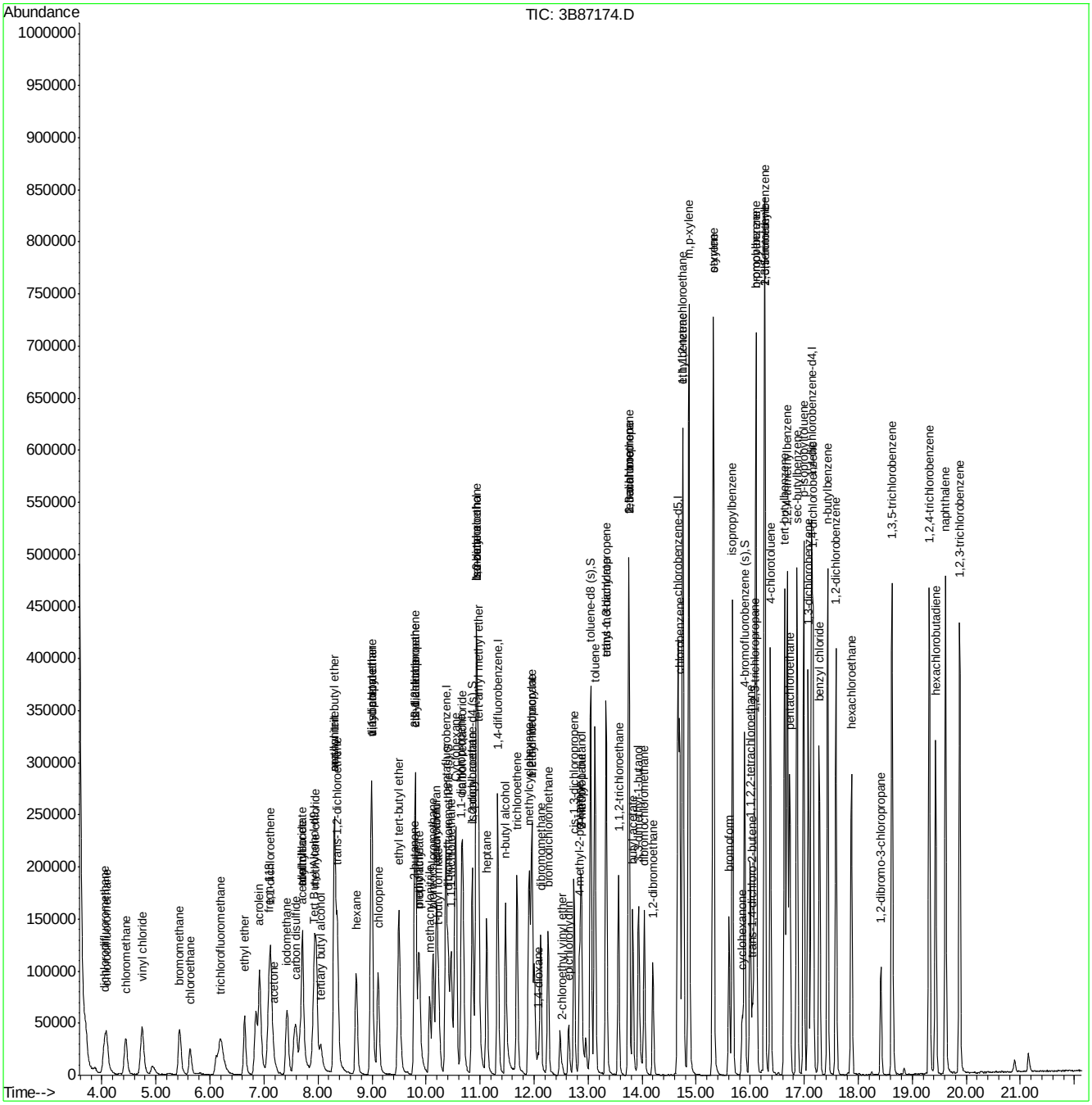
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
112) cyclohexanone	15.85	55	34228	825.58	ug/L	93
113) bromobenzene	16.11	156	111067	48.82	ug/L	92
114) 1,1,2,2-tetrachloroethane	16.00	83	114921	51.29	ug/L	97
115) trans-1,4-dichloro-2-buten	16.04	53	14933	20.08	ug/L	86
116) 1,2,3-trichloropropane	16.08	110	34025	48.30	ug/L	94
117) n-propylbenzene	16.11	91	396425	46.94	ug/L	98
119) 2-chlorotoluene	16.27	126	93974	48.17	ug/L	93
120) 4-chlorotoluene	16.37	91	262291	46.21	ug/L	99
121) 1,3,5-trimethylbenzene	16.26	105	317077	47.16	ug/L	99
122) tert-butylbenzene	16.63	119	297608	49.10	ug/L	98
123) pentachloroethane	16.73	167	80087	48.49	ug/L	99
124) 1,2,4-trimethylbenzene	16.69	105	321777	47.68	ug/L	98
125) sec-butylbenzene	16.86	105	409089	48.97	ug/L	98
126) 1,3-dichlorobenzene	17.07	146	205852	48.08	ug/L	99
127) p-isopropyltoluene	16.99	119	363843	49.14	ug/L	97
128) 1,4-dichlorobenzene	17.16	146	207661	48.64	ug/L	99
129) benzyl chloride	17.28	91	270480	49.56	ug/L	97
130) 1,2-dichlorobenzene	17.59	146	214543	49.02	ug/L	99
132) n-butylbenzene	17.43	92	172814	51.56	ug/L	98
134) 1,2-dibromo-3-chloropropan	18.42	75	30109	46.31	ug/L	84
135) 1,3,5-trichlorobenzene	18.63	180	205123	51.94	ug/L	99
136) 1,2,4-trichlorobenzene	19.31	180	196834	49.81	ug/L	98
137) hexachlorobutadiene	19.43	225	98375	54.02	ug/L	98
138) naphthalene	19.62	128	472428	51.79	ug/L	98
139) 1,2,3-trichlorobenzene	19.88	180	184368	50.91	ug/L	97
140) hexachloroethane	17.87	201	78452	50.07	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87174.D
Acq On : 7 Sep 2012 3:51 pm
Operator : tarar1
Sample : jb15337-8ms
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 12:42:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87175.D
Acq On : 7 Sep 2012 4:21 pm
Operator : tarar1
Sample : jb15337-8msd
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 12:42:21 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	113791	500.00	ug/L	-0.01
5) pentafluorobenzene	10.37	168	232376	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.33	114	298466	50.00	ug/L	0.00
93) chlorobenzene-d5	14.66	117	278489	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	161191	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.41	113	82692	48.78	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 121		Recovery = 97.56%			
56) 1,2-dichloroethane-d4 (s)	10.84	65	98639	40.14	ug/L	-0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 80.28%			
85) toluene-d8 (s)	13.05	98	310026	53.98	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 107.96%			
111) 4-bromofluorobenzene (s)	15.90	95	114326	47.44	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 94.88%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	8.05	59	57209	245.85	ug/L #	100
4) 1,4-dioxane	12.07	88	26523	1356.21	ug/L	95
11) chlorodifluoromethane	4.08	51	52896	33.43	ug/L	96
12) dichlorodifluoromethane	4.06	85	105889	42.71	ug/L	99
15) chloromethane	4.44	50	91086	44.01	ug/L	97
16) vinyl chloride	4.74	62	88159	47.68	ug/L	97
18) bromomethane	5.44	94	63513	47.62	ug/L	93
19) chloroethane	5.64	64	43417	47.12	ug/L	98
21) trichlorofluoromethane	6.19	101	132271	42.48	ug/L	92
23) ethyl ether	6.64	74	40488	46.80	ug/L	93
27) acrolein	6.92	56	155638	458.36	ug/L	97
28) 1,1-dichloroethene	7.12	96	64102	43.17	ug/L	84
29) acetone	7.18	43	33345	52.91	ug/L	91
30) allyl chloride	7.71	76	45908	49.03	ug/L #	50
31) acetonitrile	7.70	40	67093	516.65	ug/L #	72
32) iodomethane	7.42	142	147163	50.40	ug/L	96
33) iso-butyl alcohol	10.93	74	22977	420.94	ug/L #	62
34) carbon disulfide	7.58	76	213911	50.04	ug/L	92
35) methylene chloride	7.94	84	76936	46.75	ug/L	91
36) methyl acetate	7.71	74	15912	47.43	ug/L #	75
37) methyl tert butyl ether	8.31	73	240135	44.87	ug/L	100
38) trans-1,2-dichloroethene	8.36	96	67832	46.58	ug/L	89
39) di-isopropyl ether	8.98	45	211153	43.30	ug/L	98
40) 2-butanone	9.78	72	11372	48.57	ug/L #	90
41) 1,1-dichloroethane	8.99	63	119862	44.35	ug/L	94
42) chloroprene	9.11	53	87891	37.28	ug/L	89
43) acrylonitrile	8.30	53	171009	252.40	ug/L	93
44) vinyl acetate	9.00	86	13041	42.41	ug/L	54
45) ethyl tert-butyl ether	9.50	59	235749	42.69	ug/L	96
46) ethyl acetate	9.79	45	13269	44.01	ug/L	60
47) 2,2-dichloropropane	9.79	77	114500	45.44	ug/L	93
48) cis-1,2-dichloroethene	9.80	96	80445	49.43	ug/L	93
49) propionitrile	9.87	54	135879	501.19	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87175.D
Acq On : 7 Sep 2012 4:21 pm
Operator : tarar1
Sample : jb15337-8msd
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 12:42:21 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) methylacrylate	9.88	55	97792	49.45	ug/L		96
51) bromochloromethane	10.13	128	44657	47.00	ug/L		97
52) tetrahydrofuran	10.18	42	29552	43.72	ug/L		96
53) chloroform	10.20	83	132935	42.29	ug/L		98
54) t-butyl formate	10.23	59	42887	22.30	ug/L	#	94
57) freon 113	7.10	151	63297	44.23	ug/L		94
58) methacrylonitrile	10.07	41	51971	43.12	ug/L		98
59) 1,1,1-trichloroethane	10.46	97	120805	42.53	ug/L		95
60) Cyclohexane	10.54	84	96817	49.36	ug/L		90
62) iso-octane	10.94	57	215373	48.23	ug/L		93
65) epichlorohydrin	12.64	57	47931	236.62	ug/L		95
66) n-butyl alcohol	11.47	56	152569	2629.58	ug/L		95
67) carbon tetrachloride	10.68	117	114403	41.44	ug/L		97
68) 1,1-dichloropropene	10.66	75	93713	44.51	ug/L		97
69) hexane	8.70	57	72952	42.14	ug/L		99
70) benzene	10.93	78	262406	45.94	ug/L		100
71) tert-amyl methyl ether	10.97	73	214462	40.87	ug/L		98
72) heptane	11.12	57	45688	47.56	ug/L		97
73) isopropyl acetate	10.86	43	142770	42.48	ug/L		93
74) 1,2-dichloroethane	10.94	62	109356	41.07	ug/L		98
76) trichloroethene	11.68	95	76107	46.16	ug/L		96
77) 2-nitropropane	12.87	46	4884	56.46	ug/L	#	81
78) 2-chloroethyl vinyl ether	12.64	63	1799	1.83	ug/L	#	44
79) methyl methacrylate	11.97	69	59779	50.68	ug/L	#	68
80) 1,2-dichloropropane	11.95	63	69032	48.33	ug/L		94
81) dibromomethane	12.12	93	54092	47.91	ug/L		98
82) methylcyclohexane	11.91	83	114233	48.86	ug/L		100
83) bromodichloromethane	12.26	83	109534	43.26	ug/L		99
84) cis-1,3-dichloropropene	12.74	75	133069	48.65	ug/L		93
86) 4-methyl-2-pentanone	12.84	58	38521	52.74	ug/L	#	83
87) toluene	13.13	92	181451	47.37	ug/L		98
88) 3-methyl-1-butanol	12.87	55	99900	1085.00	ug/L		97
89) trans-1,3-dichloropropene	13.33	75	124500	43.37	ug/L		92
90) ethyl methacrylate	13.33	69	109278	51.85	ug/L		90
91) 1,1,2-trichloroethane	13.56	83	62031	50.52	ug/L		97
92) 2-hexanone	13.74	58	34944	55.21	ug/L		83
94) tetrachloroethene	13.75	164	79719	47.08	ug/L		94
95) 3,3-dimethyl-1-butanol	13.93	57	106448	528.44	ug/L		98
96) 1,3-dichloropropane	13.75	76	118429	47.33	ug/L		89
97) butyl acetate	13.83	56	55626	49.32	ug/L		89
98) dibromochloromethane	14.04	129	102185	45.75	ug/L		97
99) 1,2-dibromoethane	14.20	107	88616	49.68	ug/L		98
101) chlorobenzene	14.69	112	226568	47.30	ug/L		97
102) 1,1,1,2-tetrachloroethane	14.76	131	90964	46.01	ug/L		96
103) ethylbenzene	14.75	91	340614	45.71	ug/L		99
104) m,p-xylene	14.87	106	275940	90.72	ug/L		96
105) o-xylene	15.31	106	146454	46.05	ug/L		98
107) styrene	15.32	104	244967	47.67	ug/L		94
108) bromoform	15.61	173	91791	49.41	ug/L		97
110) isopropylbenzene	15.67	105	378972	48.21	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87175.D
Acq On : 7 Sep 2012 4:21 pm
Operator : tarar1
Sample : jb15337-8msd
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 12:42:21 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

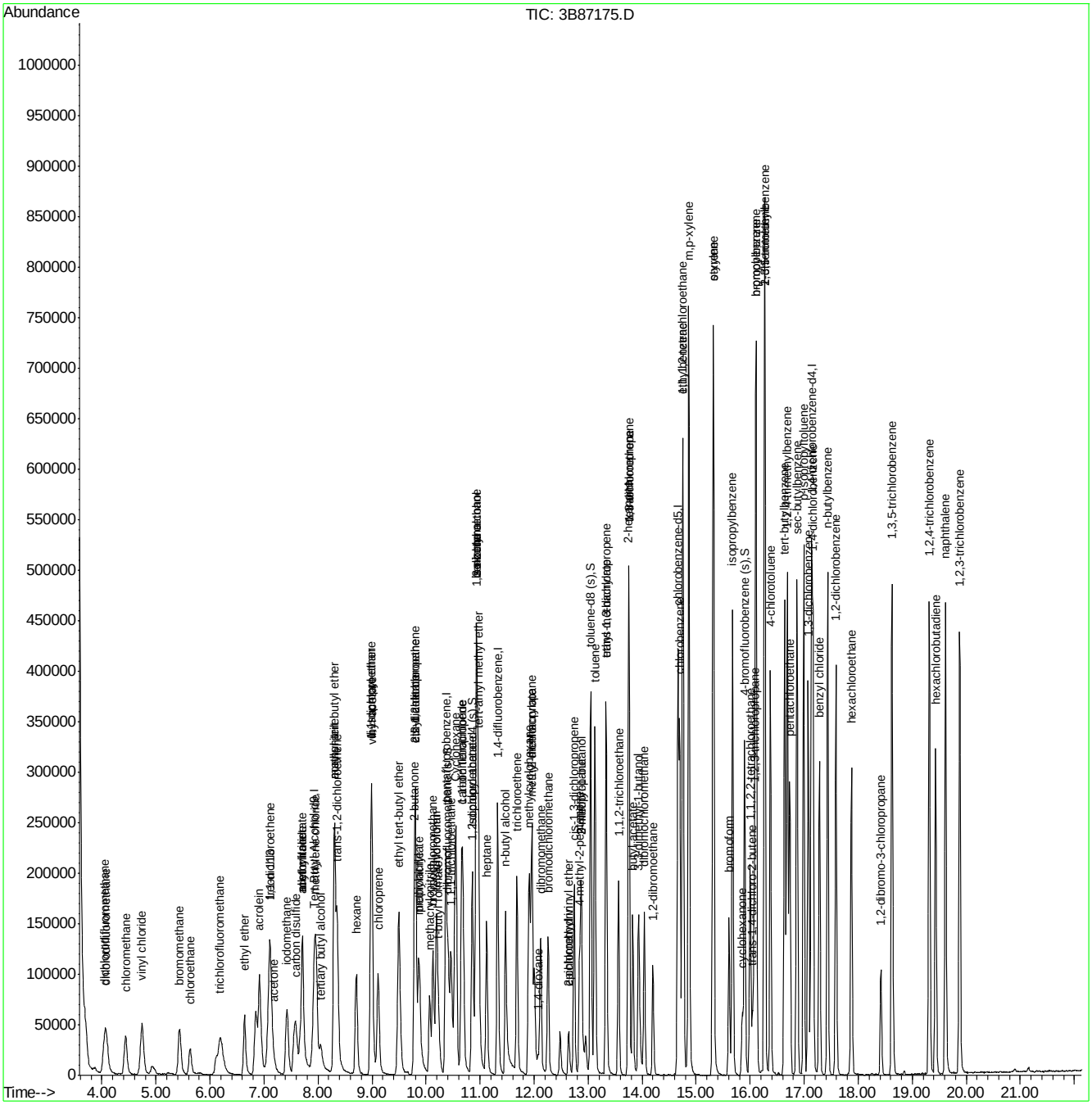
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
112) cyclohexanone	15.86	55	35381	848.50 ug/L	93
113) bromobenzene	16.10	156	113208	49.48 ug/L	94
114) 1,1,2,2-tetrachloroethane	16.00	83	119037	52.82 ug/L	100
115) trans-1,4-dichloro-2-buten	16.04	53	12970	17.34 ug/L	86
116) 1,2,3-trichloropropane	16.07	110	36281	51.21 ug/L	94
117) n-propylbenzene	16.11	91	403463	47.50 ug/L	98
119) 2-chlorotoluene	16.27	126	96437	49.15 ug/L	92
120) 4-chlorotoluene	16.37	91	263137	46.09 ug/L	97
121) 1,3,5-trimethylbenzene	16.26	105	321035	47.47 ug/L	96
122) tert-butylbenzene	16.63	119	303084	49.72 ug/L	97
123) pentachloroethane	16.73	167	79991	48.15 ug/L	97
124) 1,2,4-trimethylbenzene	16.69	105	326382	48.08 ug/L	98
125) sec-butylbenzene	16.86	105	413974	49.27 ug/L	99
126) 1,3-dichlorobenzene	17.07	146	208509	48.42 ug/L	97
127) p-isopropyltoluene	16.99	119	368739	49.52 ug/L	97
128) 1,4-dichlorobenzene	17.16	146	208386	48.53 ug/L	99
129) benzyl chloride	17.28	91	266752	48.60 ug/L	96
130) 1,2-dichlorobenzene	17.59	146	217022	49.30 ug/L	99
132) n-butylbenzene	17.43	92	174201	51.67 ug/L	97
134) 1,2-dibromo-3-chloropropan	18.42	75	30186	46.17 ug/L	90
135) 1,3,5-trichlorobenzene	18.63	180	209058	52.63 ug/L	99
136) 1,2,4-trichlorobenzene	19.32	180	200148	50.35 ug/L	98
137) hexachlorobutadiene	19.43	225	100374	54.80 ug/L	98
138) naphthalene	19.62	128	469526	51.18 ug/L	98
139) 1,2,3-trichlorobenzene	19.88	180	190095	52.19 ug/L	98
140) hexachloroethane	17.87	201	79530	50.47 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87175.D
Acq On : 7 Sep 2012 4:21 pm
Operator : tarar1
Sample : jb15337-8msd
Misc : ms35122,v3b4068,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

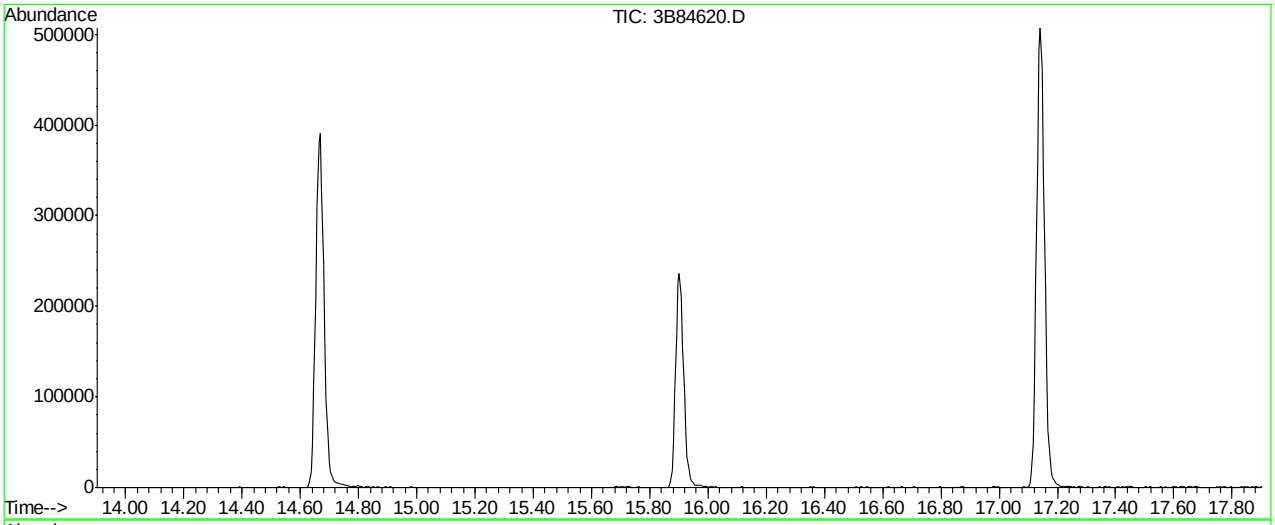
Quant Time: Sep 10 12:42:21 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\MSDChem\1\DATA\3B84620.D Vial: 1
Acq On : 20 Jun 2012 11:12 am Operator: tarar1
Sample : bfb Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um



AutoFind: Scans 2355, 2356, 2357; Background Corrected with Scan 2346

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	8516	PASS
75	95	30	60	48.2	21045	PASS
95	95	100	100	100.0	43650	PASS
96	95	5	9	6.2	2689	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	97.7	42661	PASS
175	174	5	9	8.3	3544	PASS
176	174	95	101	98.9	42181	PASS
177	176	5	9	6.8	2854	PASS

3B84620.D M3B3949.M Wed Jun 20 14:51:14 2012 MS3B

Average of 15.897 to 15.908 min.: 3B84620.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	474	51.05	2470	68.05	4328	80.95	1138
37.10	2286	55.05	235	69.00	3988	81.95	260
38.10	1915	56.05	854	70.05	296	87.00	1556
39.05	627	57.05	1316	71.95	275	87.95	1118
44.00	201	60.00	475	73.05	1817	91.00	203
45.05	488	61.00	2091	74.05	7020	92.00	1335
47.05	475	62.05	2040	75.00	21045	93.05	1948
47.80	81	63.00	1418	76.05	1870	94.05	5432
48.05	330	64.05	127	77.80	62	95.00	43650
49.05	2029	66.90	63	78.95	997	96.00	2689
50.05	8516	67.10	84	79.90	353	103.95	216

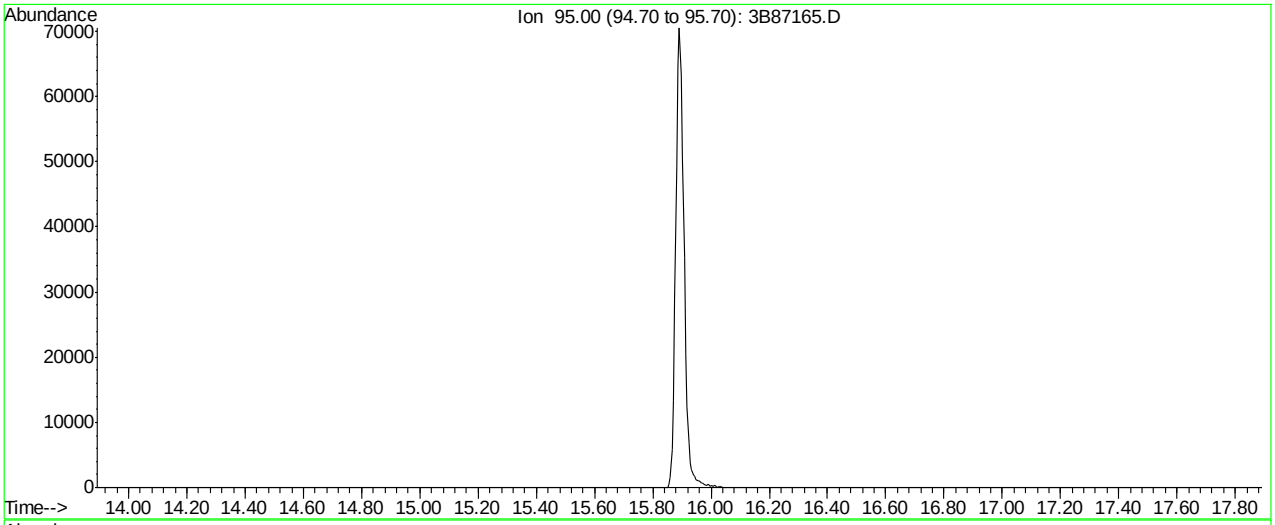
Average of 15.897 to 15.908 min.: 3B84620.D
bfb
Modified:subtracted

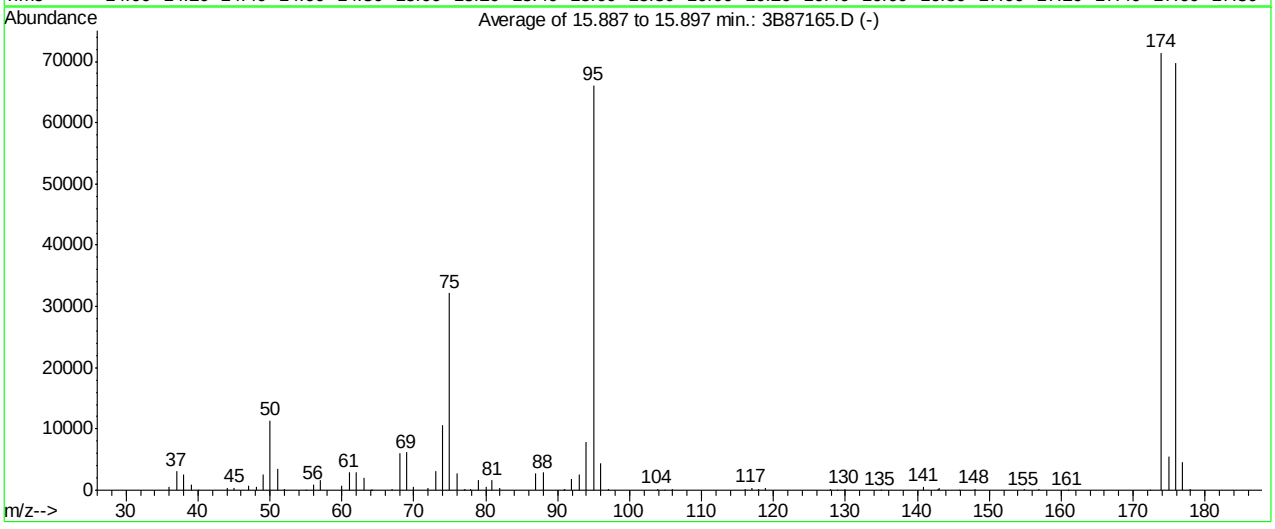
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.85	242	140.95	540	176.95	2854		
115.80	68	142.00	52				
116.00	62	142.95	473				
117.05	214	144.90	55				
117.85	111	145.80	51				
118.80	79	146.10	57				
119.00	168	154.80	53				
127.85	134	161.00	66				
129.95	196	173.90	42661				
130.90	53	174.95	3544				
135.00	69	175.95	42181				

SW-846 Method 8260

Data File : C:\MSDChem\1\DATA\3B87165.D Vial: 1
Acq On : 7 Sep 2012 10:16 am Operator: tarar1
Sample : bfb Inst : MS3B
Misc : ms35088,v3b4068,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um





AutoFind: Scans 2353, 2354, 2355; Background Corrected with Scan 2344

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	11370	PASS
75	95	30	60	48.7	32202	PASS
95	95	100	100	100.0	66130	PASS
96	95	5	9	6.7	4457	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	108.1	71458	PASS
175	174	5	9	7.6	5451	PASS
176	174	95	101	97.5	69672	PASS
177	176	5	9	6.6	4582	PASS

3B87165.D M3B3949.M Mon Sep 10 12:36:16 2012 MS3B

Average of 15.887 to 15.897 min.: 3B87165.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	566	51.05	3446	67.00	135	77.90	202
37.05	3148	52.05	148	68.00	6022	78.95	1605
38.05	2541	55.00	78	69.00	6196	80.00	576
39.05	880	56.05	944	70.00	479	80.90	1680
40.00	73	57.00	1646	71.95	337	81.90	359
44.05	375	60.00	672	73.00	3028	86.95	2787
45.05	439	61.05	2941	74.05	10570	88.00	2853
47.05	817	62.00	2860	75.00	32202	90.80	75
48.05	464	63.05	2042	76.00	2830	91.05	146
49.05	2555	64.00	62	76.90	96	91.95	1906
50.05	11370	64.20	64	77.05	212	93.00	2637

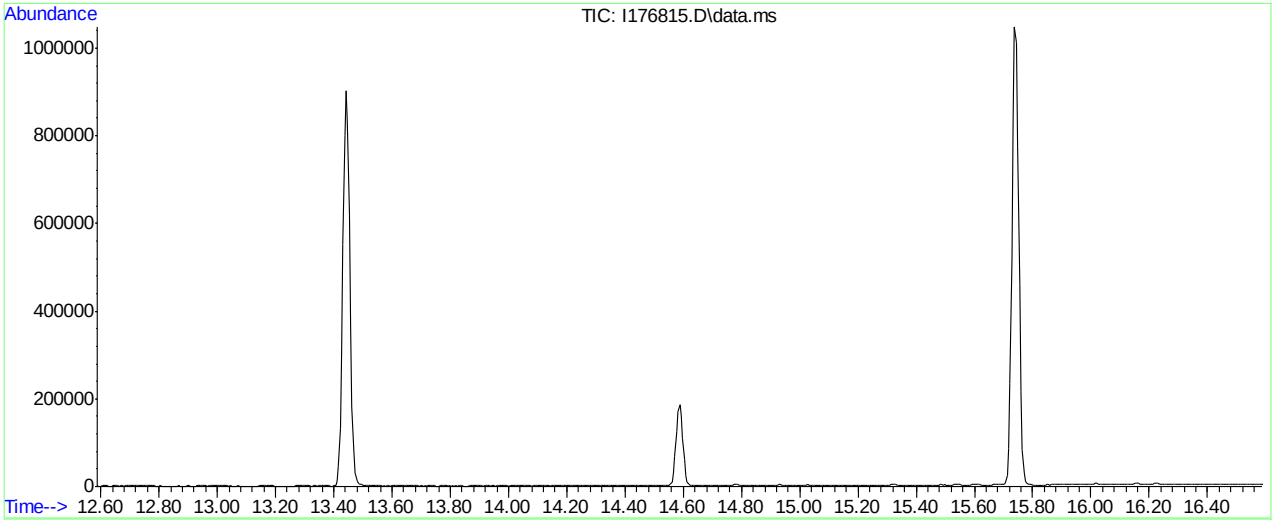
Average of 15.887 to 15.897 min.: 3B87165.D
bfb
Modified:subtracted

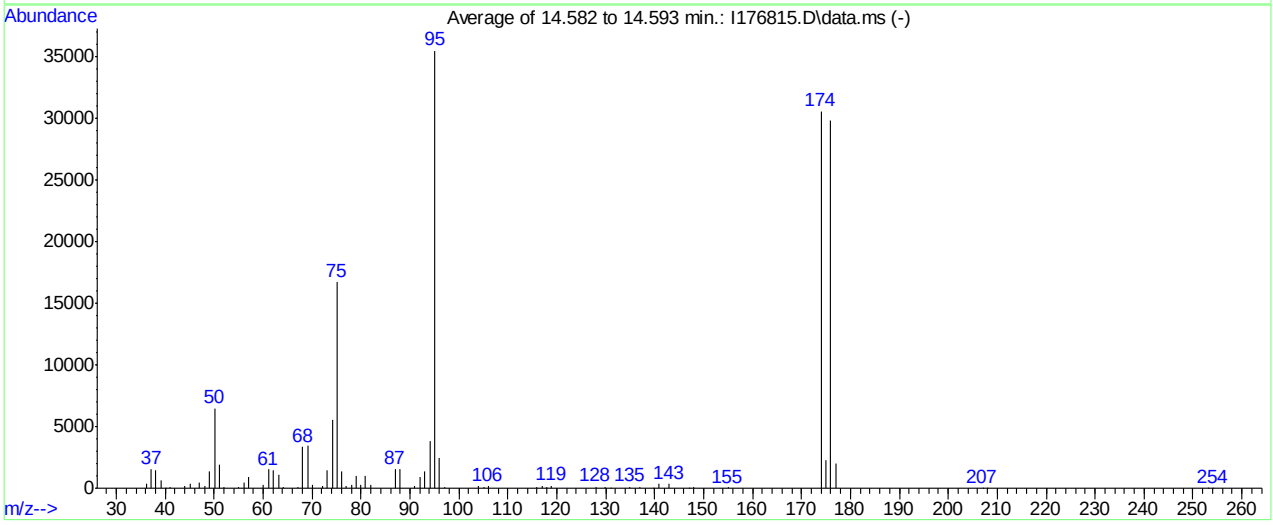
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	7859	127.85	242	160.90	65		
95.00	66130	128.90	81	172.30	66		
96.00	4457	129.90	252	173.90	71458		
97.05	112	134.90	60	174.95	5451		
103.85	252	140.90	587	175.90	69672		
104.90	51	142.80	198	176.90	4582		
105.95	173	142.95	433	177.90	142		
116.00	258	145.80	52				
116.95	391	147.95	203				
117.90	282	154.85	124				
118.85	301	156.95	108				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\I176815.D Vial: 1
Acq On : 30 Aug 2012 9:29 am Operator: SCOTTM
Sample : BFB Inst : MSI
Misc : MS34716,VI7140,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7140.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2065, 2066, 2067; Background Corrected with Scan 2056

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	6500	PASS
75	95	30	60	47.1	16726	PASS
95	95	100	100	100.0	35504	PASS
96	95	5	9	6.9	2461	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.2	30597	PASS
175	174	5	9	7.4	2267	PASS
176	174	95	101	97.3	29784	PASS
177	176	5	9	6.8	2025	PASS

I176815.D MI7140.M Fri Aug 31 08:56:21 2012 RPT1

Average of 14.582 to 14.593 min.: I176815.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	331	50.10	6500	67.10	101	78.95	986
37.10	1564	51.10	1937	68.05	3350	80.00	272
38.10	1438	52.05	112	69.10	3426	80.95	1029
39.10	657	55.05	132	70.05	264	82.00	239
40.00	2	56.05	484	72.05	169	87.00	1581
41.05	97	57.10	910	73.05	1416	88.00	1572
44.05	162	60.05	308	74.10	5535	91.00	170
45.05	340	61.05	1538	75.10	16726	92.00	932
47.00	448	62.10	1499	76.05	1390	93.00	1357
48.05	202	63.10	1081	77.05	222	94.10	3846
49.10	1333	64.05	106	78.00	236	95.10	35504

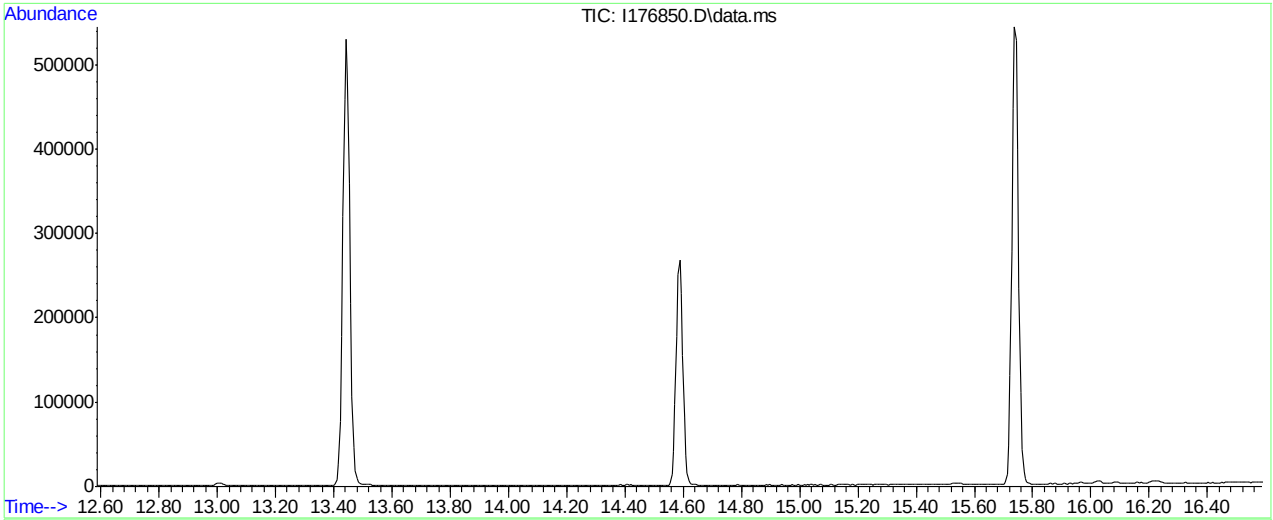
Average of 14.582 to 14.593 min.: I176815.D\data.ms
BFB
Modified:subtracted

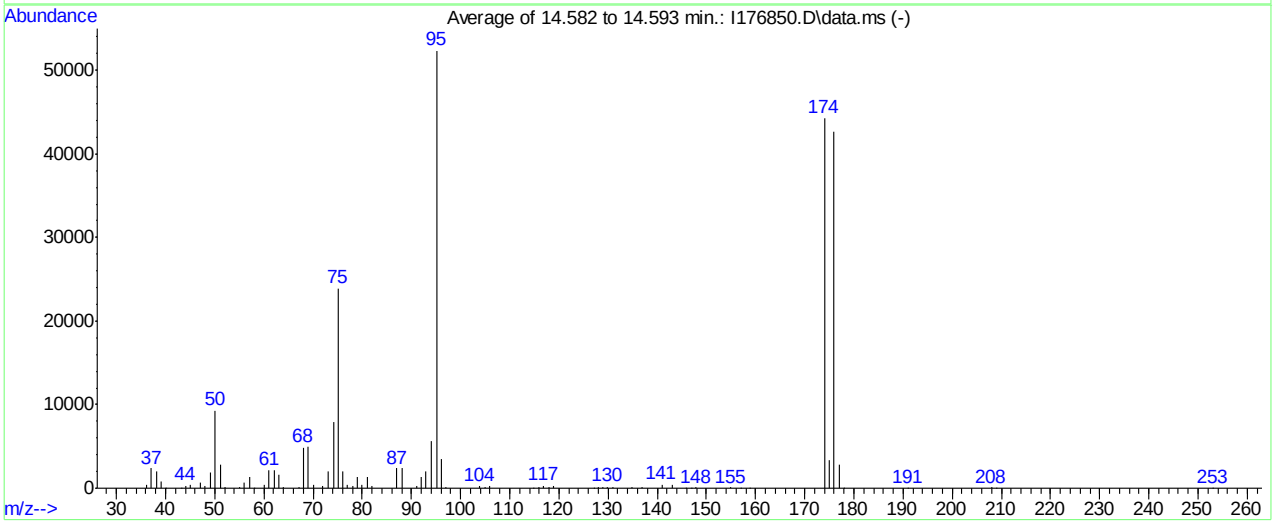
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.05	2461	130.90	26	176.00	29784		
97.05	92	134.95	96	177.00	2025		
103.95	157	137.00	56	207.05	33		
105.05	54	139.60	27	208.00	2		
105.95	160	140.90	325	253.00	24		
115.90	122	142.95	338	254.10	27		
116.95	205	147.00	34				
117.95	116	147.95	87				
118.95	221	154.95	59				
127.95	132	174.00	30597				
129.95	123	175.00	2267				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VI7141\I176850.D Vial: 47
Acq On : 31 Aug 2012 9:07 am Operator: SCOTTM
Sample : BFB1 Inst : MSI
Misc : MS34940,VI7141,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7140.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2065, 2066, 2067; Background Corrected with Scan 2056

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	9315	PASS
75	95	30	60	45.7	23912	PASS
95	95	100	100	100.0	52368	PASS
96	95	5	9	6.8	3545	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.6	44304	PASS
175	174	5	9	7.5	3312	PASS
176	174	95	101	96.4	42690	PASS
177	176	5	9	6.7	2871	PASS

I176850.D MI7140.M Thu Sep 06 08:29:40 2012 RPT1

Average of 14.582 to 14.593 min.: I176850.D\data.ms
BFB1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	443	50.10	9315	64.05	143	78.00	293
37.10	2377	51.10	2838	67.10	100	78.95	1352
38.10	2076	52.05	154	68.05	4890	80.00	427
39.10	841	55.00	155	69.05	4965	80.95	1388
40.00	14	56.05	733	70.05	377	81.95	299
43.10	26	57.05	1329	72.00	262	87.00	2388
44.00	310	58.00	27	73.05	2072	88.00	2359
45.05	448	60.05	448	74.10	7889	91.00	209
47.10	671	61.05	2165	75.10	23912	92.00	1300
48.05	268	62.05	2158	76.05	2053	93.00	2043
49.10	1908	63.05	1659	77.00	369	94.10	5588

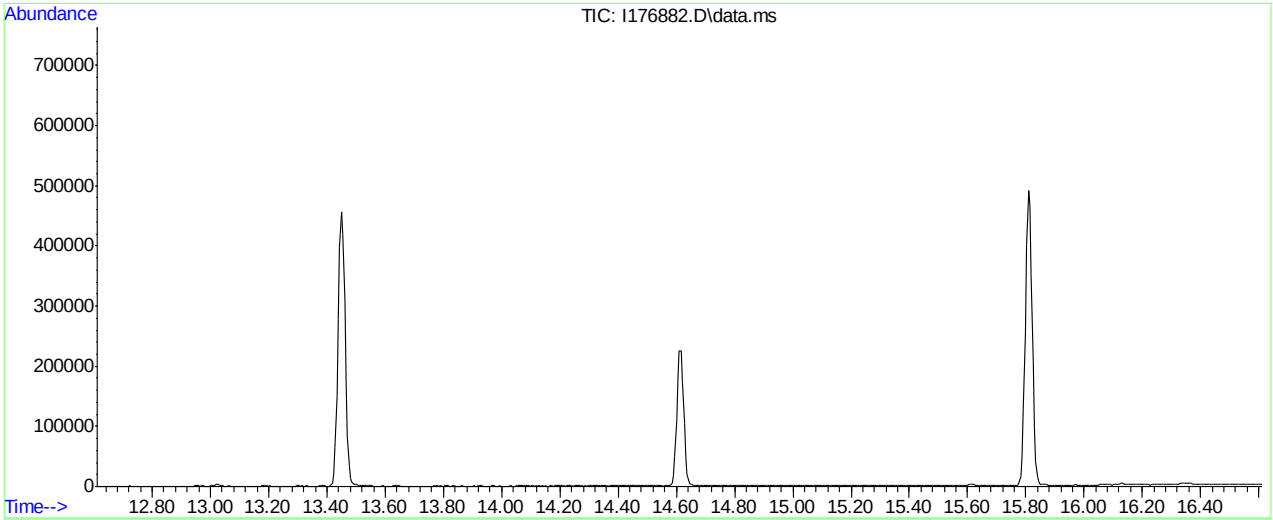
Average of 14.582 to 14.593 min.: I176850.D\data.ms
BFB1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	52368	127.00	27	147.90	118	209.00	25
96.05	3545	127.95	175	154.95	85	253.00	17
97.00	74	128.95	101	156.95	62		
103.90	221	129.95	179	158.90	32		
104.95	87	130.95	78	174.00	44304		
105.95	214	134.95	118	175.00	3312		
114.90	27	136.90	95	176.00	42690		
115.95	189	140.95	466	176.95	2871		
116.95	336	142.95	433	177.90	58		
117.95	193	145.85	59	191.00	25		
118.95	288	147.00	28	208.05	99		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VI7142\I176882.D Vial: 48
Acq On : 1 Sep 2012 8:20 am Operator: SCOTTM
Sample : BFB1 Inst : MSI
Misc : MS34987,VI7142,,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7140.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2165, 2166, 2167; Background Corrected with Scan 2157

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	8425	PASS
75	95	30	60	47.2	21037	PASS
95	95	100	100	100.0	44597	PASS
96	95	5	9	6.9	3086	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.8	35162	PASS
175	174	5	9	7.8	2760	PASS
176	174	95	101	96.7	34013	PASS
177	176	5	9	6.8	2311	PASS

I176882.D MI7140.M Tue Sep 04 10:32:47 2012 RPT1

Average of 14.606 to 14.616 min.: I176882.D\data.ms
BFB1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	403	50.10	8425	68.00	4358	79.95	357
37.10	2138	51.10	2578	69.10	4337	80.95	1229
38.10	1956	52.05	134	70.05	374	81.95	276
39.10	781	55.05	132	72.05	234	87.00	2100
40.00	17	56.05	619	73.00	1809	88.00	1983
41.10	25	57.10	1175	74.10	6936	91.00	193
44.00	240	60.00	397	75.10	21037	92.00	1149
45.10	420	61.05	1933	76.10	1823	93.00	1673
47.05	677	62.05	1881	77.00	304	94.10	4777
48.00	267	63.10	1404	78.05	235	95.10	44597
49.10	1840	64.05	136	79.00	1207	96.10	3086

Average of 14.606 to 14.616 min.: I176882.D\data.ms
BFB1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.05	108	136.90	92	176.00	34013		
103.95	184	140.95	384	177.00	2311		
105.95	161	142.90	396	177.90	52		
115.95	150	145.90	26	207.00	52		
116.95	260	146.95	87	253.05	5		
117.95	152	147.95	71				
118.90	244	155.00	106				
127.95	154	157.00	25				
128.95	52	160.90	29				
129.95	143	174.00	35162				
135.00	100	175.00	2760				

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 06/28/12 15:20

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84622.D
Acq On : 20 Jun 2012 12:59 pm
Operator : tarar1
Sample : ic3949-1
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 16:15:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 15:21:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.93	65	95956	500.00	ug/L		0.00
5) pentafluorobenzene	10.37	168	215846	50.00	ug/L		0.00
63) 1,4-difluorobenzene	11.33	114	269205	50.00	ug/L		0.00
93) chlorobenzene-d5	14.67	117	245656	50.00	ug/L		0.00
109) 1,4-dichlorobenzene-d4	17.14	152	154866	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.42	113	1384	0.87	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 1.74%#				
56) 1,2-dichloroethane-d4 (s)	10.88	65	1953	0.83	ug/L		0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 1.66%#				
85) toluene-d8 (s)	13.06	98	4864	0.90	ug/L		0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 1.80%#				
111) 4-bromofluorobenzene (s)	15.92	95	2554	1.01	ug/L		0.01
Spiked Amount 50.000	Range 78 - 116		Recovery = 2.02%#				
Target Compounds							Qvalue
10) chlorotrifluoroethene	3.97	116	79201	122.58	ug/L		49
15) chloromethane	4.39	50	1332	0.86	ug/L		54
16) vinyl chloride	4.68	62	1247	0.91	ug/L		88
18) bromomethane	5.41	94	905	0.78	ug/L		92
19) chloroethane	5.62	64	617	0.79	ug/L	#	38
21) trichlorofluoromethane	6.21	101	755	0.43	ug/L		73
26) freon 123a	6.68	117	151277	110.39	ug/L		96
27) acrolein	6.92	56	372467	13.99	ug/L		92
28) 1,1-dichloroethene	7.12	96	830	0.76	ug/L	#	67
29) acetone	7.21	43	2850	2.83	ug/L		85
30) allyl chloride	7.57	76	3485	4.77	ug/L	#	1
31) acetonitrile	7.73	40	1086	9.71	ug/L	#	1
32) iodomethane	7.43	142	2321	0.94	ug/L		73
33) iso-butyl alcohol	10.82	74	2142	8.18	ug/L	#	1
34) carbon disulfide	7.57	76	3485	0.91	ug/L		84
35) methylene chloride	7.94	84	5259	1.01	ug/L	#	78
37) methyl tert butyl ether	8.33	73	4106	0.87	ug/L		96
38) trans-1,2-dichloroethene	8.39	96	1239	0.94	ug/L	#	76
39) di-isopropyl ether	9.00	45	3867	0.95	ug/L		86
41) 1,1-dichloroethane	9.01	63	2058	0.91	ug/L		73
42) chloroprene	9.14	53	1785	0.93	ug/L	#	48
43) acrylonitrile	8.37	53	2045	4.63	ug/L	#	40
45) ethyl tert-butyl ether	9.51	59	4529	0.95	ug/L		80
47) 2,2-dichloropropane	9.81	77	2243	0.95	ug/L		77
48) cis-1,2-dichloroethene	9.81	96	1399	0.91	ug/L		83
49) propionitrile	9.92	54	888	5.81	ug/L	#	52
51) bromochloromethane	10.15	128	515	0.72	ug/L	#	78
53) chloroform	10.21	83	2848	0.94	ug/L		78
57) freon 113	7.08	151	606	0.71	ug/L		89
58) methacrylonitrile	10.27	41	1835	1.63	ug/L	#	29
59) 1,1,1-trichloroethane	10.47	97	2207	0.93	ug/L		85
60) Cyclohexane	10.55	84	1773	0.99	ug/L	#	80
61) tert amyl alcohol	10.82	59	87801	521.59	ug/L		74

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84622.D
Acq On : 20 Jun 2012 12:59 pm
Operator : tarar1
Sample : ic3949-1
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 16:15:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 15:21:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
62) iso-octane	10.94	57	3937	0.97 ug/L	#	47
64) tert-amyl ethyl ether	11.86	59	419942	108.04 ug/L		99
65) epichlorohydrin	12.66	57	789	4.64 ug/L		55
66) n-butyl alcohol	11.54	56	2156	58.29 ug/L		81
67) carbon tetrachloride	10.70	117	2244	0.93 ug/L		95
68) 1,1-dichloropropene	10.67	75	1875	0.98 ug/L		92
69) hexane	8.72	57	1491	1.02 ug/L		77
70) benzene	10.94	78	4941	0.94 ug/L		86
71) tert-amyl methyl ether	10.98	73	4805	1.19 ug/L		81
73) isopropyl acetate	10.82	43	33995	0.97 ug/L		61
74) 1,2-dichloroethane	10.98	62	1952	0.78 ug/L		60
76) trichloroethene	11.70	95	1374	0.94 ug/L	#	67
78) 2-chloroethyl vinyl ether	12.53	63	4103	5.06 ug/L		96
79) methyl methacrylate	12.02	69	561	0.71 ug/L	#	20
80) 1,2-dichloropropane	11.96	63	1208	0.93 ug/L		74
81) dibromomethane	12.13	93	833	0.89 ug/L		86
82) methylcyclohexane	11.91	83	1781	0.89 ug/L	#	33
83) bromodichloromethane	12.28	83	2208	0.94 ug/L		73
84) cis-1,3-dichloropropene	12.76	75	2083	0.82 ug/L		98
86) 4-methyl-2-pentanone	12.88	58	523	1.03 ug/L	#	1
87) toluene	13.13	92	3522	0.98 ug/L	#	59
88) 3-methyl-1-butanol	12.92	55	1875	23.27 ug/L		86
89) trans-1,3-dichloropropene	13.35	75	2364	0.92 ug/L		71
90) ethyl methacrylate	13.36	69	1628	0.83 ug/L	#	61
91) 1,1,2-trichloroethane	13.58	83	984	0.90 ug/L		89
94) tetrachloroethene	13.77	164	1532	0.95 ug/L	#	66
95) 3,3-dimethyl-1-butanol	13.96	57	2355	12.96 ug/L	#	92
96) 1,3-dichloropropane	13.77	76	2238	0.95 ug/L		88
97) butyl acetate	13.85	56	1121	1.12 ug/L	#	66
98) dibromochloromethane	14.06	129	1748	0.85 ug/L		94
99) 1,2-dibromoethane	14.22	107	1588	0.95 ug/L		95
101) chlorobenzene	14.71	112	4405	0.95 ug/L		90
102) 1,1,1,2-tetrachloroethane	14.77	131	1716	0.92 ug/L	#	72
103) ethylbenzene	14.76	91	6915	0.94 ug/L		94
104) m,p-xylene	14.88	106	5905	1.97 ug/L	#	76
105) o-xylene	15.33	106	2763	0.93 ug/L		100
107) styrene	15.34	104	4419	0.90 ug/L		95
108) bromoform	15.62	173	1569	0.89 ug/L		77
110) isopropylbenzene	15.69	105	7672	0.96 ug/L		92
112) cyclohexanone	15.87	55	1057	12.64 ug/L	#	78
113) bromobenzene	16.12	156	2105	0.88 ug/L		91
114) 1,1,2,2-tetrachloroethane	16.02	83	2112	0.89 ug/L		83
115) trans-1,4-dichloro-2-buten	16.05	53	568	0.98 ug/L	#	64
116) 1,2,3-trichloropropane	16.08	110	753	1.16 ug/L	#	44
117) n-propylbenzene	16.12	91	8605	0.97 ug/L		95
119) 2-chlorotoluene	16.28	126	1988m	0.99 ug/L		
120) 4-chlorotoluene	16.38	91	6089	1.00 ug/L		94
121) 1,3,5-trimethylbenzene	16.27	105	6364	0.96 ug/L		87
122) tert-butylbenzene	16.64	119	5670	0.94 ug/L		92
123) pentachloroethane	16.74	167	1464	0.86 ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84622.D
Acq On : 20 Jun 2012 12:59 pm
Operator : tarar1
Sample : ic3949-1
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 16:15:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 15:21:31 2012
Response via : Initial Calibration

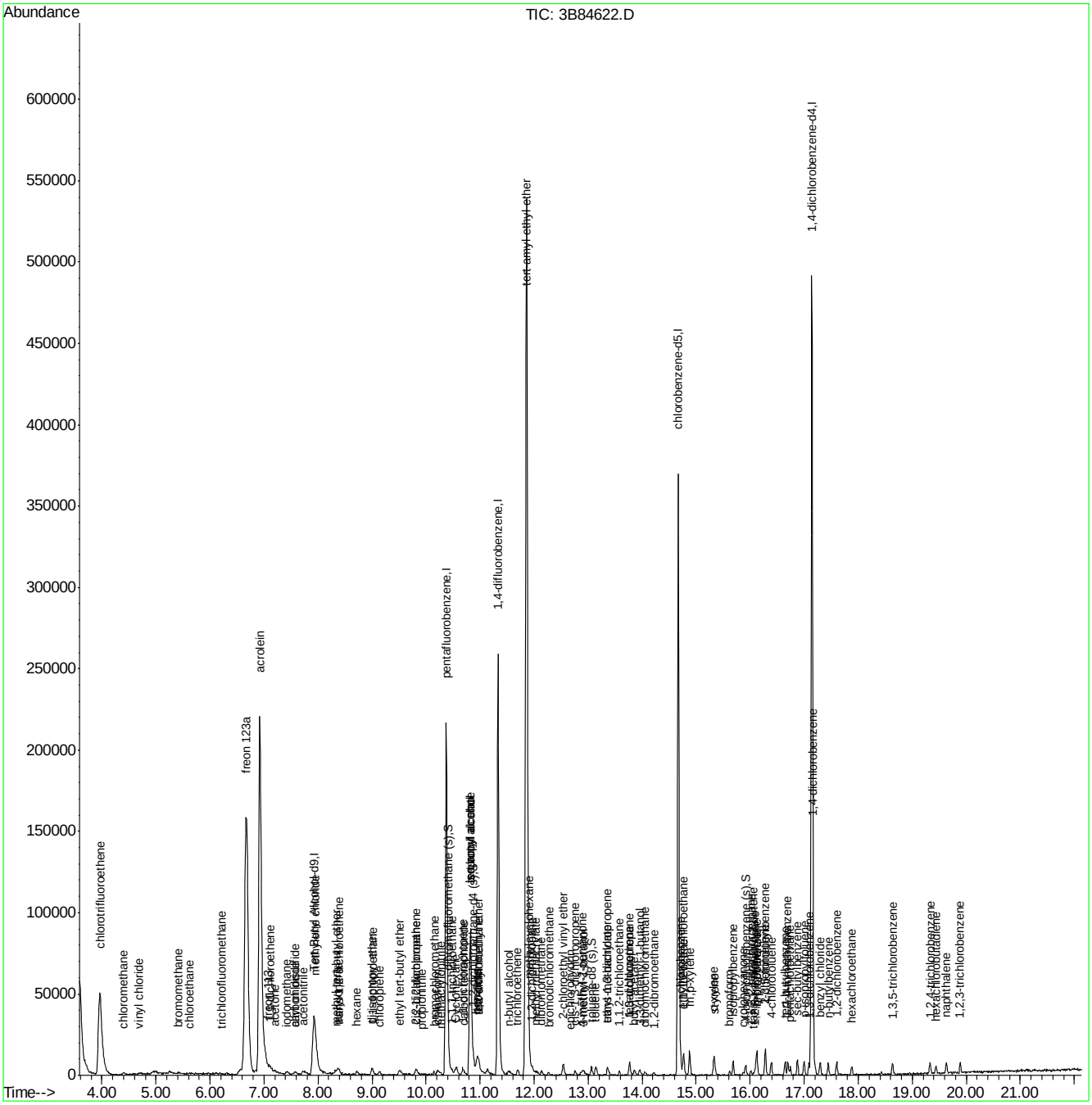
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 1,2,4-trimethylbenzene	16.70	105	6438	0.93	ug/L	95
125) sec-butylbenzene	16.87	105	7754	0.94	ug/L	93
126) 1,3-dichlorobenzene	17.09	146	4450	0.99	ug/L	91
127) p-isopropyltoluene	17.00	119	6654	0.92	ug/L	94
128) 1,4-dichlorobenzene	17.17	146	4400	0.92	ug/L	81
129) benzyl chloride	17.30	91	7437	1.30	ug/L	97
130) 1,2-dichlorobenzene	17.60	146	3991	0.93	ug/L	93
132) n-butylbenzene	17.44	92	2645	0.85	ug/L	98
135) 1,3,5-trichlorobenzene	18.63	180	3211	0.85	ug/L	84
136) 1,2,4-trichlorobenzene	19.32	180	3335	0.90	ug/L	79
137) hexachlorobutadiene	19.44	225	1516	0.89	ug/L	86
138) naphthalene	19.63	128	7808	0.89	ug/L	95
139) 1,2,3-trichlorobenzene	19.89	180	2950	0.91	ug/L	92
140) hexachloroethane	17.88	201	1407	1.00	ug/L	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84622.D
Acq On : 20 Jun 2012 12:59 pm
Operator : tarar1
Sample : ic3949-1
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 16:15:30 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 15:21:31 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	V3B3949-IC3949	**Method:**	SW846 8260B
Lab FileID:	3B84622.D	**Analyst approved:**	06/25/12 17:23 MoHui Huang
Injection Time:	06/20/12 12:59	**Supervisor approved:**	06/28/12 15:20 Kanya Veerawat

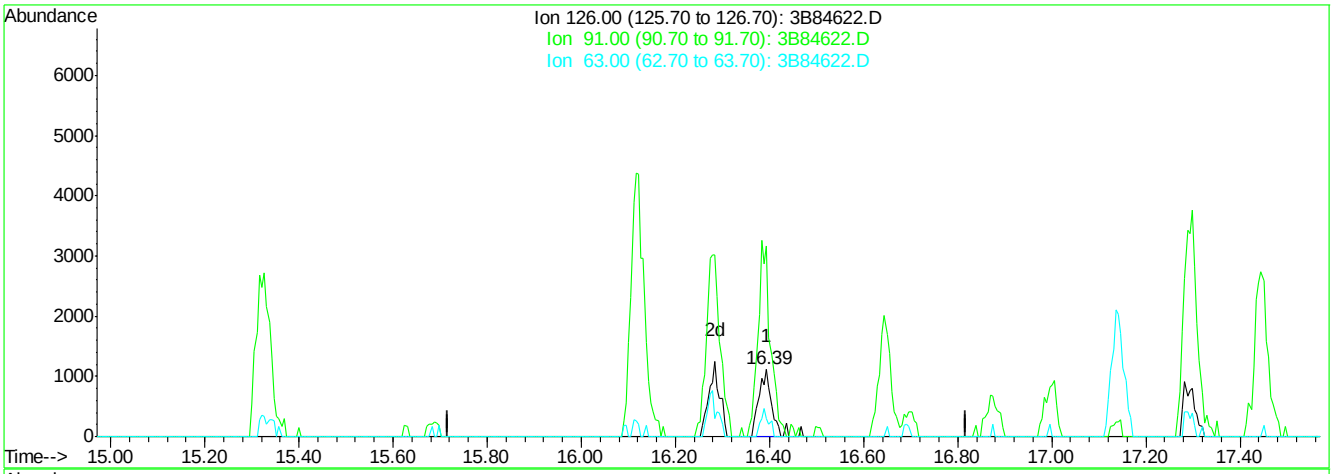
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Chlorotoluene	95-49-8		16.28	Missed peak

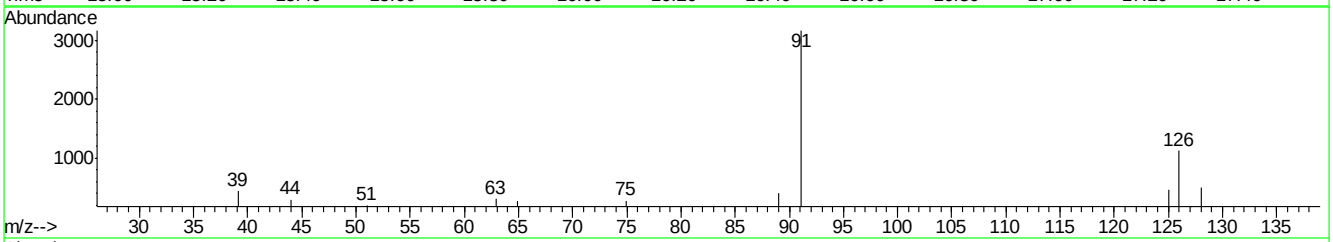
Quantitation Report (Qedit)

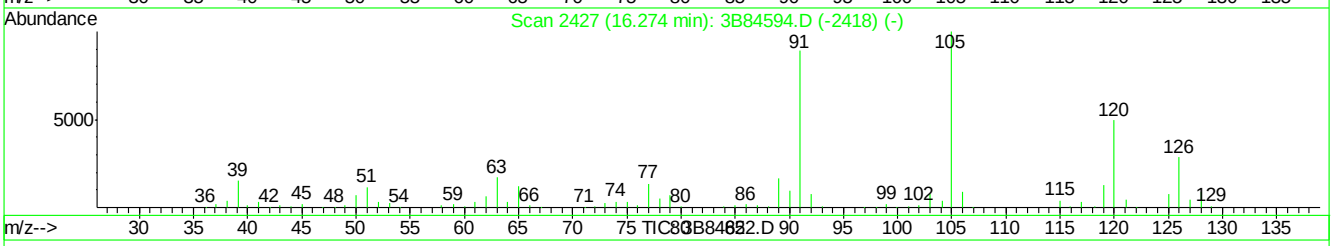
Data File : C:\MSDChem\1\DATA\3B84622.D Vial: 3
Acq On : 20 Jun 2012 12:59 pm Operator: tarar1
Sample : ic3949-1 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 20 15:07:42 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Wed Jun 20 15:07:33 2012
Response via : Multiple Level Calibration







(119) 2-chlorotoluene

16.39min 0.89ug/L

response 2010

Ion	Exp%	Act%
126.00	100	100
91.00	270.90	266.34
63.00	52.60	27.25
0.00	0.00	0.00

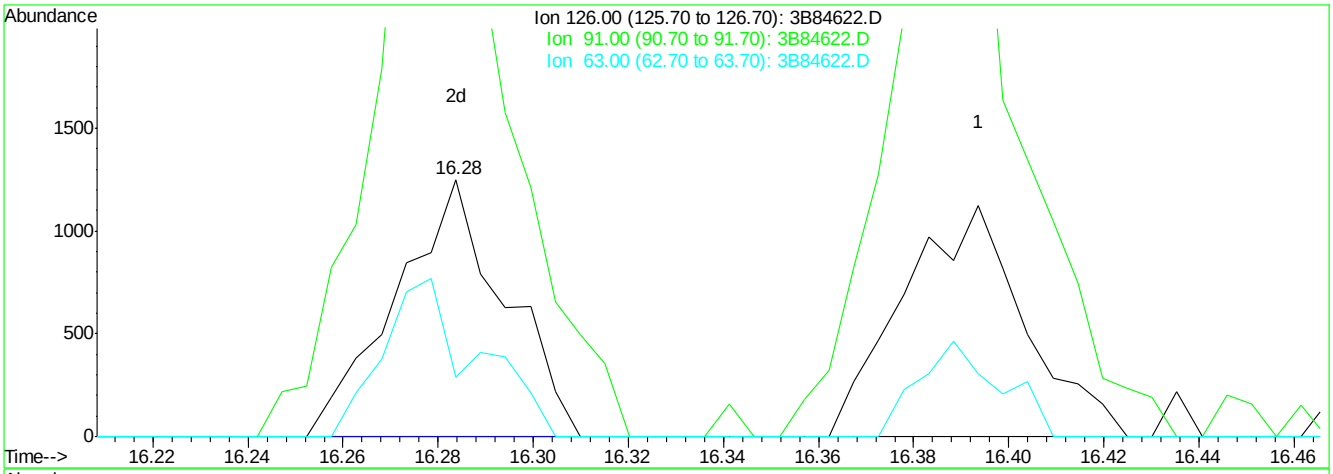
3B84622.D M3B3949.M Wed Jun 20 15:10:13 2012 MS3B

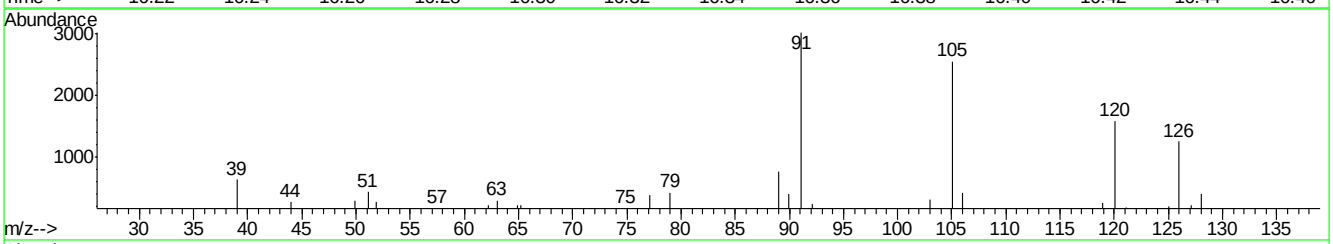
Quantitation Report (Qedit)

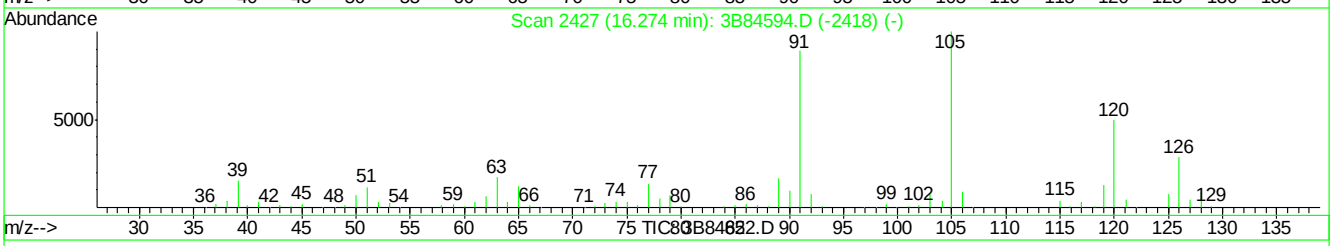
Data File : C:\MSDChem\1\DATA\3B84622.D Vial: 3
Acq On : 20 Jun 2012 12:59 pm Operator: tarar1
Sample : ic3949-1 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 20 15:07:42 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Wed Jun 20 15:07:33 2012
Response via : Multiple Level Calibration







(119) 2-chlorotoluene

16.28min 0.88ug/L m

response 1988

Ion	Exp%	Act%
126.00	100	100
91.00	270.90	241.28
63.00	52.60	23.20
0.00	0.00	0.00

3B84622.D M3B3949.M Wed Jun 20 15:10:20 2012 MS3B

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84623.D
Acq On : 20 Jun 2012 1:29 pm
Operator : tarar1
Sample : ic3949-2
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 16:17:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:15:43 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	100222	500.00	ug/L		-0.01
5) pentafluorobenzene	10.38	168	212652	50.00	ug/L		0.00
63) 1,4-difluorobenzene	11.33	114	271471	50.00	ug/L		0.00
93) chlorobenzene-d5	14.67	117	241284	50.00	ug/L		0.00
109) 1,4-dichlorobenzene-d4	17.14	152	154115	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.43	113	2746	1.79	ug/L		0.02
Spiked Amount 50.000	Range 81 - 121		Recovery = 3.58%#				
56) 1,2-dichloroethane-d4 (s)	10.87	65	4121	1.93	ug/L		0.02
Spiked Amount 50.000	Range 74 - 127		Recovery = 3.86%#				
85) toluene-d8 (s)	13.06	98	9112	1.73	ug/L		0.01
Spiked Amount 50.000	Range 80 - 122		Recovery = 3.46%#				
111) 4-bromofluorobenzene (s)	15.91	95	3977	1.63	ug/L		0.01
Spiked Amount 50.000	Range 78 - 116		Recovery = 3.26%#				
Target Compounds							Qvalue
3) tertiary butyl alcohol	8.07	59	2139	10.25	ug/L		100
4) 1,4-dioxane	12.09	88	811	53.09	ug/L	#	60
10) chlorotrifluoroethene	3.96	116	774	0.98	ug/L	#	47
11) chlorodifluoromethane	4.08	51	2677	1.78	ug/L		59
12) dichlorodifluoromethane	4.06	85	3617	1.44	ug/L		82
15) chloromethane	4.40	50	2473	1.58	ug/L		84
16) vinyl chloride	4.68	62	2837	1.85	ug/L		91
18) bromomethane	5.43	94	2117	1.96	ug/L		81
19) chloroethane	5.62	64	1467	1.94	ug/L		74
21) trichlorofluoromethane	6.14	101	1524	0.83	ug/L		74
23) ethyl ether	6.66	74	1439	1.74	ug/L	#	73
26) freon 123a	6.67	117	2139	1.42	ug/L		92
27) acrolein	6.95	56	4785	13.69	ug/L		97
28) 1,1-dichloroethene	7.12	96	1886	1.75	ug/L	#	73
30) allyl chloride	7.72	76	1193	0.55	ug/L	#	41
31) acetonitrile	7.73	40	2183	17.93	ug/L	#	30
32) iodomethane	7.44	142	4534	1.72	ug/L		86
33) iso-butyl alcohol	10.94	74	534	4.08	ug/L	#	1
34) carbon disulfide	7.59	76	7605	1.96	ug/L		95
35) methylene chloride	7.95	84	2755	0.82	ug/L	#	71
37) methyl tert butyl ether	8.32	73	8761	1.88	ug/L		83
38) trans-1,2-dichloroethene	8.39	96	2308	1.74	ug/L	#	57
39) di-isopropyl ether	8.99	45	8584	1.98	ug/L	#	45
41) 1,1-dichloroethane	9.01	63	4272	1.80	ug/L		97
42) chloroprene	9.14	53	3644	1.77	ug/L		85
43) acrylonitrile	8.37	53	4037	7.81	ug/L		78
45) ethyl tert-butyl ether	9.51	59	9489	1.90	ug/L		93
46) ethyl acetate	9.87	45	249	0.91	ug/L	#	1
47) 2,2-dichloropropane	9.81	77	4177	1.74	ug/L		86
48) cis-1,2-dichloroethene	9.82	96	2725	1.81	ug/L	#	70
49) propionitrile	9.92	54	2871	16.60	ug/L	#	37
50) methylacrylate	9.96	55	528	0.27	ug/L	#	1
51) bromochloromethane	10.15	128	1338	1.81	ug/L		83

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84623.D
Acq On : 20 Jun 2012 1:29 pm
Operator : tarar1
Sample : ic3949-2
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 16:17:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:15:43 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) chloroform	10.22	83	4971	1.70	ug/L		91
54) t-butyl formate	10.24	59	3434	1.77	ug/L	#	95
57) freon 113	7.08	151	1911	1.89	ug/L	#	72
58) methacrylonitrile	10.12	41	1204	0.82	ug/L	#	55
59) 1,1,1-trichloroethane	10.48	97	4541	1.79	ug/L		79
60) Cyclohexane	10.54	84	2966	1.58	ug/L	#	58
61) tert amyl alcohol	10.83	59	636	3.07	ug/L	#	36
62) iso-octane	10.95	57	8058	1.96	ug/L		94
64) tert-amyl ethyl ether	11.86	59	7186	1.75	ug/L		93
65) epichlorohydrin	12.67	57	1993	11.33	ug/L		95
66) n-butyl alcohol	11.52	56	3321	67.95	ug/L		84
67) carbon tetrachloride	10.69	117	4407	1.78	ug/L		92
68) 1,1-dichloropropene	10.68	75	3187	1.61	ug/L		97
69) hexane	8.73	57	2854	1.77	ug/L		95
70) benzene	10.94	78	9366	1.81	ug/L		94
71) tert-amyl methyl ether	10.98	73	9687	2.01	ug/L		89
72) heptane	11.14	57	1590	1.68	ug/L	#	77
73) isopropyl acetate	10.88	43	4099	0.22	ug/L		88
74) 1,2-dichloroethane	10.96	62	4307	1.87	ug/L		87
76) trichloroethene	11.70	95	2546	1.69	ug/L		83
78) 2-chloroethyl vinyl ether	12.53	63	8313	9.29	ug/L		86
79) methyl methacrylate	12.00	69	1288	1.52	ug/L	#	2
80) 1,2-dichloropropane	11.97	63	2250	1.72	ug/L		74
81) dibromomethane	12.14	93	1623	1.66	ug/L	#	73
82) methylcyclohexane	11.92	83	4190	1.99	ug/L		88
83) bromodichloromethane	12.28	83	3917	1.66	ug/L		94
84) cis-1,3-dichloropropene	12.76	75	4370	1.81	ug/L		92
86) 4-methyl-2-pentanone	12.87	58	653	1.08	ug/L	#	29
87) toluene	13.14	92	5692	1.58	ug/L	#	75
88) 3-methyl-1-butanol	12.91	55	3349	36.71	ug/L		94
89) trans-1,3-dichloropropene	13.36	75	4069	1.58	ug/L		99
90) ethyl methacrylate	13.36	69	2820	1.50	ug/L		92
91) 1,1,2-trichloroethane	13.57	83	1875	1.70	ug/L		81
94) tetrachloroethene	13.76	164	2754	1.82	ug/L		79
95) 3,3-dimethyl-1-butanol	13.96	57	4348	21.46	ug/L	#	94
96) 1,3-dichloropropane	13.77	76	3468	1.54	ug/L		94
97) butyl acetate	13.86	56	2088	2.02	ug/L	#	70
98) dibromochloromethane	14.05	129	3411	1.78	ug/L		88
99) 1,2-dibromoethane	14.22	107	2467	1.53	ug/L		75
101) chlorobenzene	14.70	112	6749	1.56	ug/L		94
102) 1,1,1,2-tetrachloroethane	14.76	131	2991	1.68	ug/L		89
103) ethylbenzene	14.76	91	10884	1.61	ug/L		94
104) m,p-xylene	14.87	106	8876	3.14	ug/L		90
105) o-xylene	15.32	106	4580	1.63	ug/L		100
107) styrene	15.34	104	7360	1.63	ug/L		94
108) bromoform	15.62	173	2507	1.52	ug/L		92
110) isopropylbenzene	15.69	105	13100	1.69	ug/L		94
112) cyclohexanone	15.87	55	1710	35.03	ug/L		84
113) bromobenzene	16.12	156	3875	1.77	ug/L		87
114) 1,1,2,2-tetrachloroethane	16.01	83	3633	1.68	ug/L		76

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84623.D
Acq On : 20 Jun 2012 1:29 pm
Operator : tarar1
Sample : ic3949-2
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 16:17:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:15:43 2012
Response via : Initial Calibration

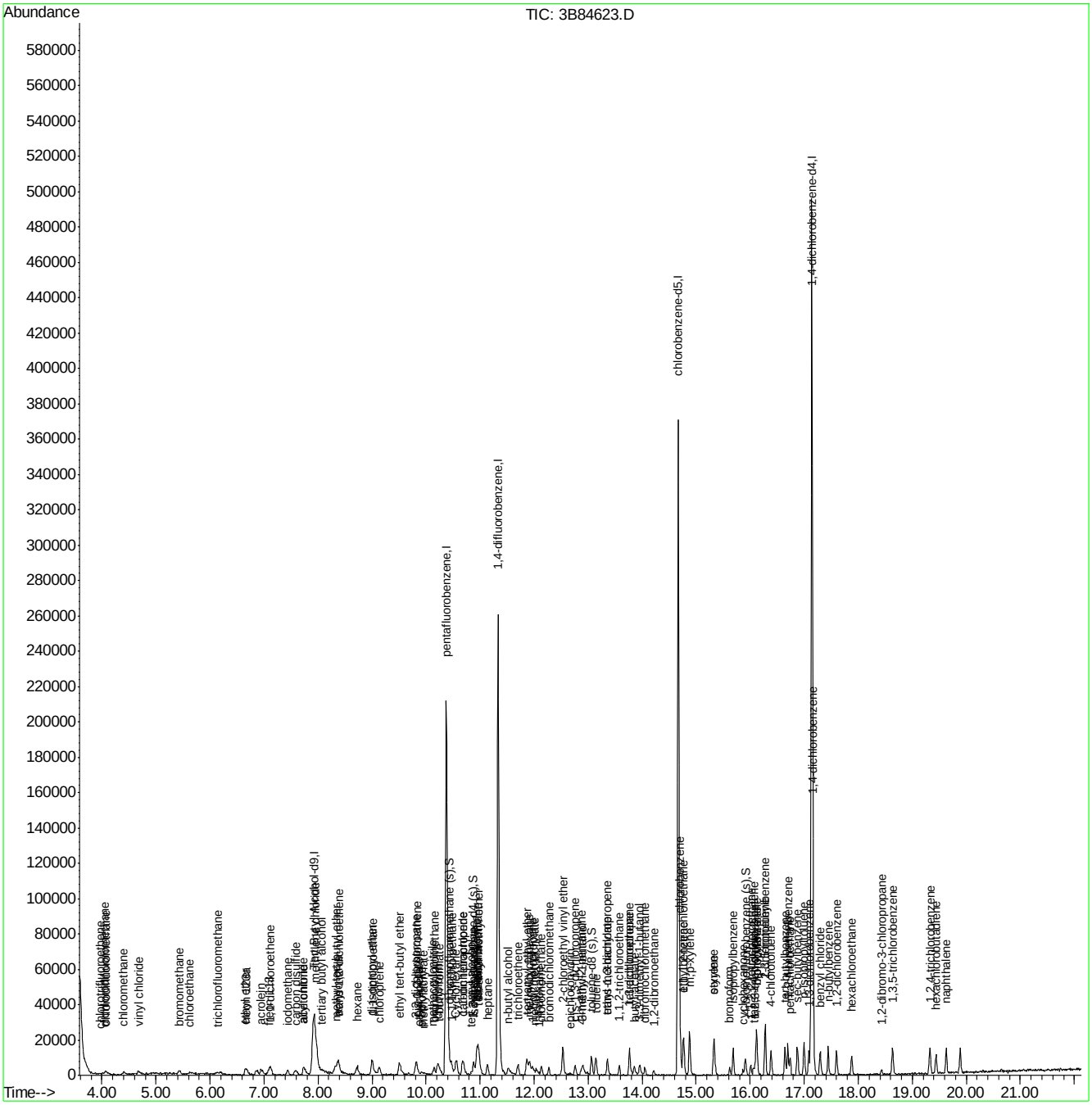
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
115) trans-1,4-dichloro-2-buten	16.06	53	930	1.41 ug/L		90
116) 1,2,3-trichloropropane	16.09	110	924	1.25 ug/L		93
117) n-propylbenzene	16.12	91	14077	1.66 ug/L		94
119) 2-chlorotoluene	16.28	126	3161	1.61 ug/L		91
120) 4-chlorotoluene	16.38	91	9014	1.56 ug/L		97
121) 1,3,5-trimethylbenzene	16.28	105	11221	1.72 ug/L		89
122) tert-butylbenzene	16.64	119	9621	1.63 ug/L		91
123) pentachloroethane	16.74	167	2911	1.85 ug/L		82
124) 1,2,4-trimethylbenzene	16.70	105	11508	1.74 ug/L		94
125) sec-butylbenzene	16.87	105	13887	1.72 ug/L		91
126) 1,3-dichlorobenzene	17.08	146	7430	1.72 ug/L		89
127) p-isopropyltoluene	17.00	119	12919	1.86 ug/L		99
128) 1,4-dichlorobenzene	17.17	146	7196	1.68 ug/L		93
129) benzyl chloride	17.29	91	12017	1.88 ug/L		99
130) 1,2-dichlorobenzene	17.59	146	7424	1.78 ug/L		84
132) n-butylbenzene	17.44	92	5838	1.92 ug/L	#	75
134) 1,2-dibromo-3-chloropropan	18.44	75	1013	1.52 ug/L	#	78
135) 1,3,5-trichlorobenzene	18.63	180	6696	1.86 ug/L		96
136) 1,2,4-trichlorobenzene	19.33	180	6644	1.84 ug/L		97
137) hexachlorobutadiene	19.44	225	3361	2.05 ug/L		92
138) naphthalene	19.63	128	14697	1.74 ug/L		94
140) hexachloroethane	17.88	201	2287	1.48 ug/L		93

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84623.D
Acq On : 20 Jun 2012 1:29 pm
Operator : tarar1
Sample : ic3949-2
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 16:17:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:15:43 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 06/28/12 15:20

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84624.D
Acq On : 20 Jun 2012 2:00 pm
Operator : tarar1
Sample : ic3949-5
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 08:42:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:17:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	99194	500.00	ug/L	-0.02
5) pentafluorobenzene	10.37	168	199419	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.33	114	251962	50.00	ug/L	0.00
93) chlorobenzene-d5	14.67	117	227681	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	141121	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.42	113	7399	5.33	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 10.66%#			
56) 1,2-dichloroethane-d4 (s)	10.87	65	11657	5.89	ug/L	0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 11.78%#			
85) toluene-d8 (s)	13.06	98	26257	5.62	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 11.24%#			
111) 4-bromofluorobenzene (s)	15.91	95	10196	4.86	ug/L	0.01
Spiked Amount 50.000	Range 78 - 116		Recovery = 9.72%#			
Target Compounds						Qvalue
3) tertiary butyl alcohol	8.07	59	4255	20.35	ug/L	100
4) 1,4-dioxane	12.09	88	1354	86.87	ug/L	86
10) chlorotrifluoroethene	3.97	116	2871m	4.68	ug/L	
11) chlorodifluoromethane	4.06	51	6769	5.08	ug/L	93
12) dichlorodifluoromethane	4.04	85	10514	5.19	ug/L	90
15) chloromethane	4.40	50	8325	6.09	ug/L	99
16) vinyl chloride	4.69	62	8215	5.07	ug/L	94
18) bromomethane	5.41	94	6195	6.16	ug/L	93
19) chloroethane	5.62	64	4366	6.23	ug/L	93
21) trichlorofluoromethane	6.15	101	13094	9.48	ug/L	99
23) ethyl ether	6.64	74	3398	4.69	ug/L	84
26) freon 123a	6.66	117	6116	4.78	ug/L	98
27) acrolein	6.94	56	13722	46.79	ug/L	98
28) 1,1-dichloroethene	7.12	96	6022	6.23	ug/L	89
29) acetone	7.20	43	2495	1.55	ug/L	63
30) allyl chloride	7.72	76	3642	2.36	ug/L #	79
31) acetonitrile	7.72	40	5358	48.61	ug/L #	74
32) iodomethane	7.43	142	12601	5.34	ug/L	96
33) iso-butyl alcohol	10.94	74	2264	25.09	ug/L #	55
34) carbon disulfide	7.58	76	19811	5.48	ug/L	92
35) methylene chloride	7.94	84	7158	2.83	ug/L	85
36) methyl acetate	7.76	74	1083	3.72	ug/L #	47
37) methyl tert butyl ether	8.32	73	24092	5.63	ug/L	94
38) trans-1,2-dichloroethene	8.36	96	6643	5.57	ug/L	99
39) di-isopropyl ether	9.00	45	21423	5.28	ug/L #	54
40) 2-butanone	9.84	72	385	1.97	ug/L #	63
41) 1,1-dichloroethane	9.00	63	11937	5.54	ug/L	100
42) chloroprene	9.12	53	10101	5.44	ug/L	93
43) acrylonitrile	8.34	53	13103	29.15	ug/L	94
44) vinyl acetate	9.05	86	733	2.68	ug/L #	1
45) ethyl tert-butyl ether	9.51	59	23825	5.18	ug/L	93
46) ethyl acetate	9.85	45	721	3.87	ug/L #	1
47) 2,2-dichloropropane	9.80	77	11785	5.47	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84624.D
Acq On : 20 Jun 2012 2:00 pm
Operator : tarar1
Sample : ic3949-5
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 08:42:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:17:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.81	96	7073	5.17	ug/L		89
49) propionitrile	9.89	54	10598m	69.26	ug/L		
50) methylacrylate	9.92	55	7580m	7.39	ug/L		
51) bromochloromethane	10.14	128	3677	5.48	ug/L		91
52) tetrahydrofuran	10.21	42	3115	5.43	ug/L		75
53) chloroform	10.20	83	14118	5.42	ug/L		95
54) t-butyl formate	10.24	59	8129	4.74	ug/L	#	95
57) freon 113	7.09	151	6274m	6.73	ug/L		
58) methacrylonitrile	10.09	41	4341	3.90	ug/L		86
59) 1,1,1-trichloroethane	10.47	97	11549	5.02	ug/L		85
60) Cyclohexane	10.55	84	8405	5.13	ug/L	#	69
61) tert amyl alcohol	10.82	59	4834	32.37	ug/L		96
62) iso-octane	10.94	57	19969	5.22	ug/L		97
64) tert-amyl ethyl ether	11.86	59	18433	5.05	ug/L		99
65) epichlorohydrin	12.65	57	3777	22.16	ug/L		97
66) n-butyl alcohol	11.50	56	8913	219.99	ug/L		98
67) carbon tetrachloride	10.69	117	12534	5.67	ug/L		88
68) 1,1-dichloropropene	10.66	75	9327	5.42	ug/L		91
69) hexane	8.72	57	7778	5.41	ug/L		87
70) benzene	10.93	78	24240	5.22	ug/L		93
71) tert-amyl methyl ether	10.98	73	22770	5.08	ug/L		97
72) heptane	11.14	57	3872	4.80	ug/L		90
73) isopropyl acetate	10.88	43	10581	0.86	ug/L		96
74) 1,2-dichloroethane	10.95	62	12822	6.13	ug/L		91
76) trichloroethene	11.69	95	6944	5.24	ug/L		95
77) 2-nitropropane	13.13	46	258	3.80	ug/L	#	1
78) 2-chloroethyl vinyl ether	12.52	63	19778	24.39	ug/L		94
79) methyl methacrylate	12.00	69	4354	6.00	ug/L	#	42
80) 1,2-dichloropropane	11.96	63	6247	5.40	ug/L		90
81) dibromomethane	12.13	93	5014	5.85	ug/L		80
82) methylcyclohexane	11.92	83	10411	5.34	ug/L		98
83) bromodichloromethane	12.27	83	10999	5.33	ug/L		95
84) cis-1,3-dichloropropene	12.75	75	11386	5.24	ug/L		93
86) 4-methyl-2-pentanone	12.86	58	2728	5.73	ug/L	#	59
87) toluene	13.14	92	15915	5.11	ug/L		93
88) 3-methyl-1-butanol	12.89	55	7553	91.72	ug/L	#	80
89) trans-1,3-dichloropropene	13.36	75	11660	5.25	ug/L		94
90) ethyl methacrylate	13.35	69	9051	5.67	ug/L		97
91) 1,1,2-trichloroethane	13.57	83	4920	5.06	ug/L		93
92) 2-hexanone	13.77	58	2097	3.71	ug/L	#	75
94) tetrachloroethene	13.76	164	7187	5.19	ug/L		89
95) 3,3-dimethyl-1-butanol	13.95	57	7641	39.02	ug/L	#	96
96) 1,3-dichloropropane	13.77	76	10674	5.45	ug/L		98
97) butyl acetate	13.85	56	4175	4.27	ug/L	#	58
98) dibromochloromethane	14.06	129	9476	5.43	ug/L		85
99) 1,2-dibromoethane	14.21	107	7180	5.12	ug/L		95
101) chlorobenzene	14.70	112	19116	5.06	ug/L		83
102) 1,1,1,2-tetrachloroethane	14.76	131	8419	5.29	ug/L		92
103) ethylbenzene	14.76	91	30998	5.19	ug/L		92
104) m,p-xylene	14.88	106	25666	10.37	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84624.D
Acq On : 20 Jun 2012 2:00 pm
Operator : tarar1
Sample : ic3949-5
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 08:42:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:17:13 2012
Response via : Initial Calibration

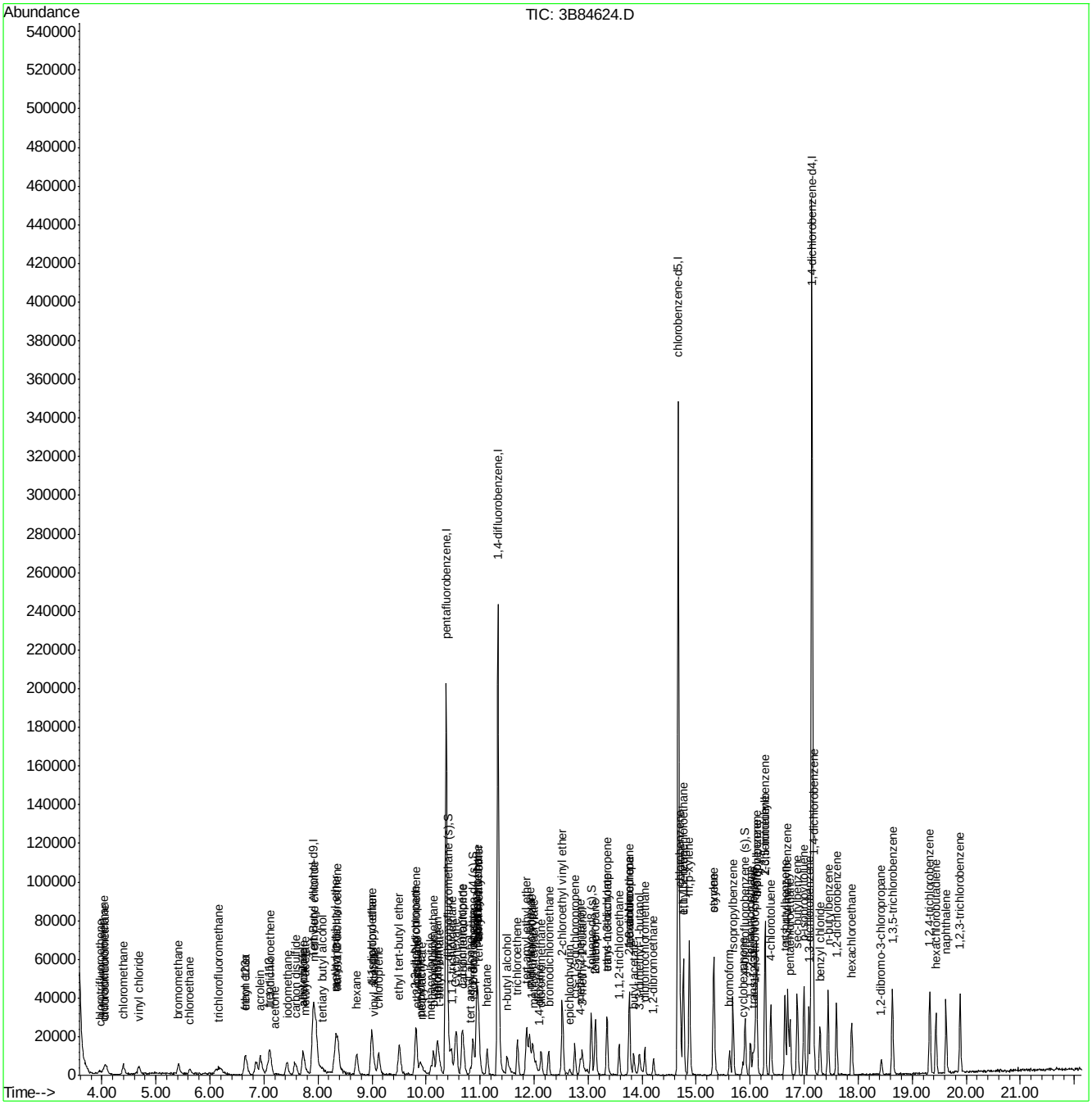
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) o-xylene	15.32	106	12630	5.08	ug/L	86
107) styrene	15.33	104	20545	5.15	ug/L	99
108) bromoform	15.61	173	7264	5.08	ug/L	97
110) isopropylbenzene	15.68	105	33496	4.97	ug/L	93
112) cyclohexanone	15.87	55	3941	91.98	ug/L	82
113) bromobenzene	16.12	156	9982	5.18	ug/L	87
114) 1,1,2,2-tetrachloroethane	16.01	83	9721	5.19	ug/L	90
115) trans-1,4-dichloro-2-buten	16.05	53	3182	5.85	ug/L	84
116) 1,2,3-trichloropropane	16.09	110	3062	5.16	ug/L	87
117) n-propylbenzene	16.12	91	36304	4.96	ug/L	99
119) 2-chlorotoluene	16.28	126	8774	5.21	ug/L	94
120) 4-chlorotoluene	16.38	91	24414	4.97	ug/L	96
121) 1,3,5-trimethylbenzene	16.27	105	29493	5.17	ug/L	92
122) tert-butylbenzene	16.65	119	26101	5.14	ug/L	93
123) pentachloroethane	16.74	167	7378	5.26	ug/L	94
124) 1,2,4-trimethylbenzene	16.69	105	28909	4.99	ug/L	96
125) sec-butylbenzene	16.88	105	35503	5.05	ug/L	96
126) 1,3-dichlorobenzene	17.08	146	18495	4.91	ug/L	96
127) p-isopropyltoluene	17.00	119	31750	5.10	ug/L	93
128) 1,4-dichlorobenzene	17.17	146	18906	5.09	ug/L	96
129) benzyl chloride	17.29	91	22382	3.90	ug/L	99
130) 1,2-dichlorobenzene	17.59	146	18686	5.08	ug/L	93
132) n-butylbenzene	17.44	92	14624	5.32	ug/L	98
134) 1,2-dibromo-3-chloropropan	18.42	75	2617	4.87	ug/L	87
135) 1,3,5-trichlorobenzene	18.63	180	18555	5.75	ug/L	98
136) 1,2,4-trichlorobenzene	19.32	180	17097	5.31	ug/L	92
137) hexachlorobutadiene	19.44	225	8937	5.90	ug/L	89
138) naphthalene	19.63	128	37698	5.09	ug/L	96
139) 1,2,3-trichlorobenzene	19.88	180	17521	5.68	ug/L	94
140) hexachloroethane	17.88	201	6650	5.14	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84624.D
Acq On : 20 Jun 2012 2:00 pm
Operator : tarar1
Sample : ic3949-5
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 08:42:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:17:13 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V3B3949-IC3949
Lab FileID: 3B84624.D
Injection Time: 06/20/12 14:00

Method: SW846 8260B
Analyst approved: 06/25/12 17:23 MoHui Huang
Supervisor approved: 06/28/12 15:20 Kanya Veerawat

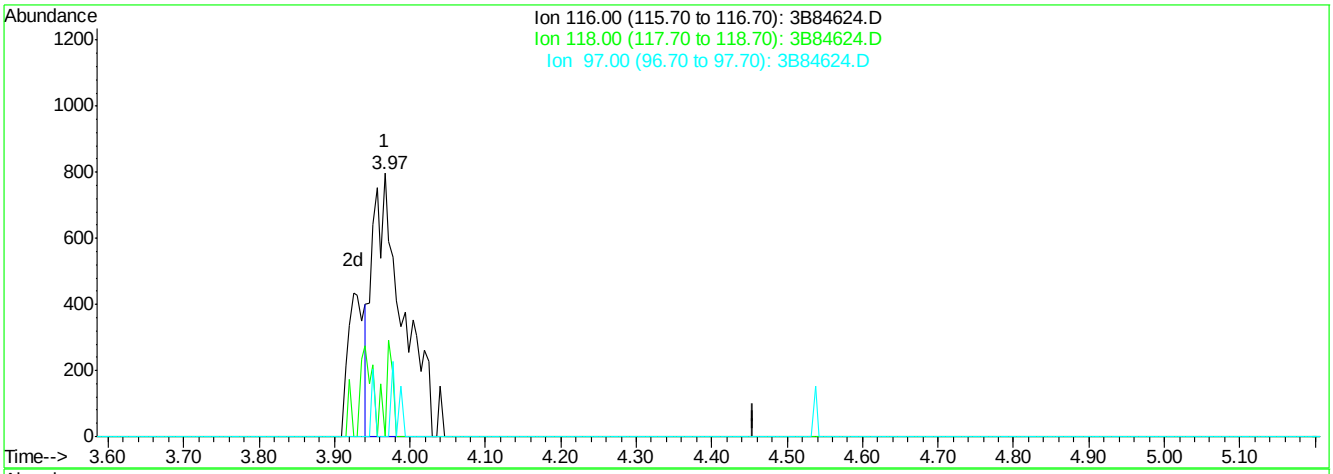
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorotrifluoroethene	79-38-9		3.97	Split peak
Freon 113	76-13-1		7.09	Split peak
Propionitrile	107-12-0		9.89	Split peak
Methyl Acrylate	96-33-3		9.92	Split peak

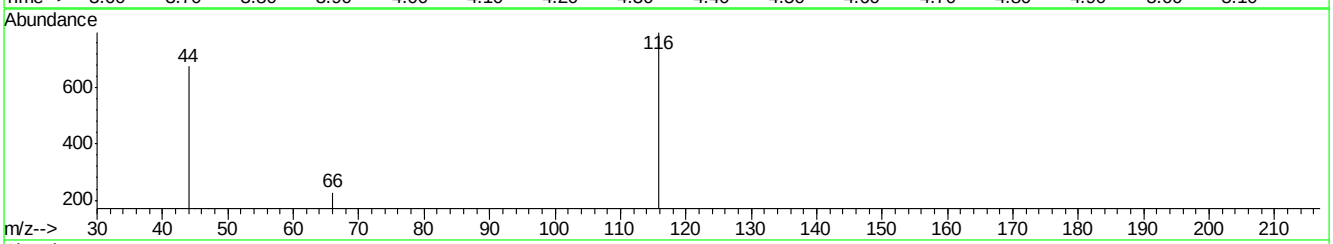
Quantitation Report (Qedit)

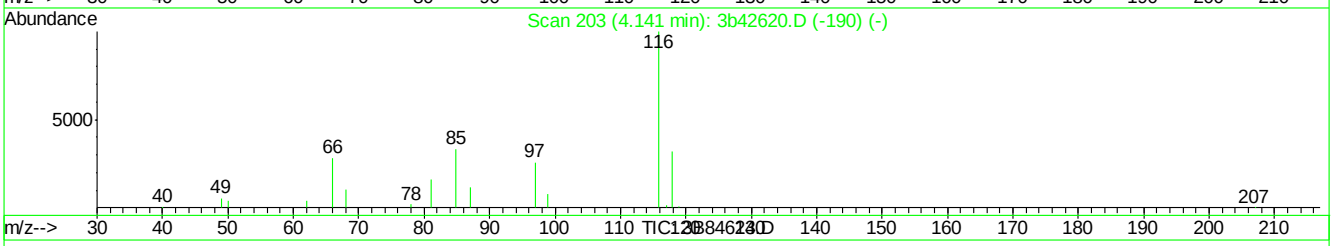
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 20 15:13:55 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Wed Jun 20 15:13:49 2012
Response via : Multiple Level Calibration







(10) chlorotrifluoroethene

3.97min 3.64ug/L

response 2192

Ion	Exp%	Act%
116.00	100	100
118.00	11.90	0.00
97.00	0.00	0.00
0.00	0.00	0.00

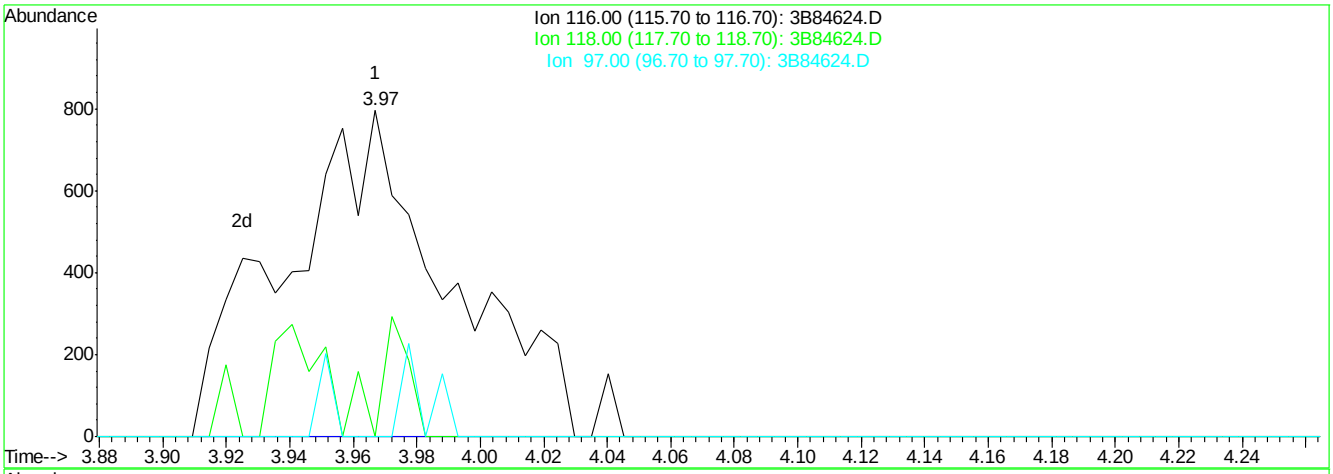
3B84624.D M3B3949.M Wed Jun 20 15:14:22 2012 MS3B

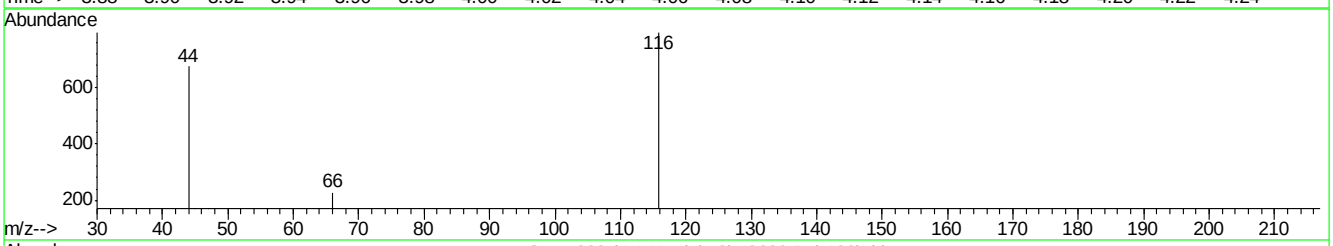
Quantitation Report (Qedit)

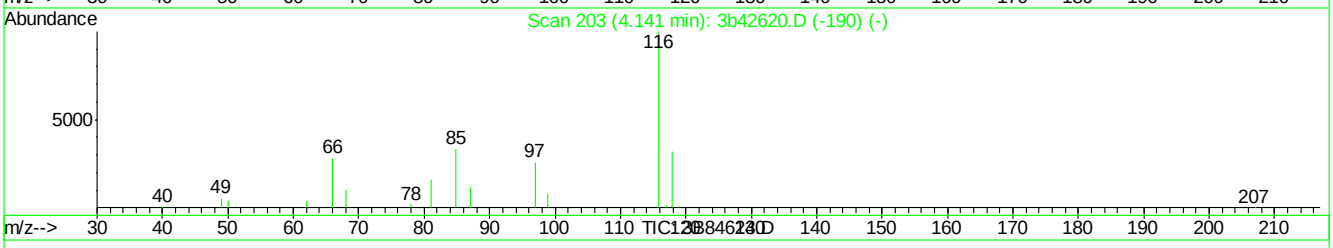
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 20 15:13:55 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Wed Jun 20 15:13:49 2012
Response via : Multiple Level Calibration







(10) chlorotrifluoroethene

3.97min 4.76ug/L m

response 2871

Ion	Exp%	Act%
116.00	100	100
118.00	11.90	0.00
97.00	0.00	0.00
0.00	0.00	0.00

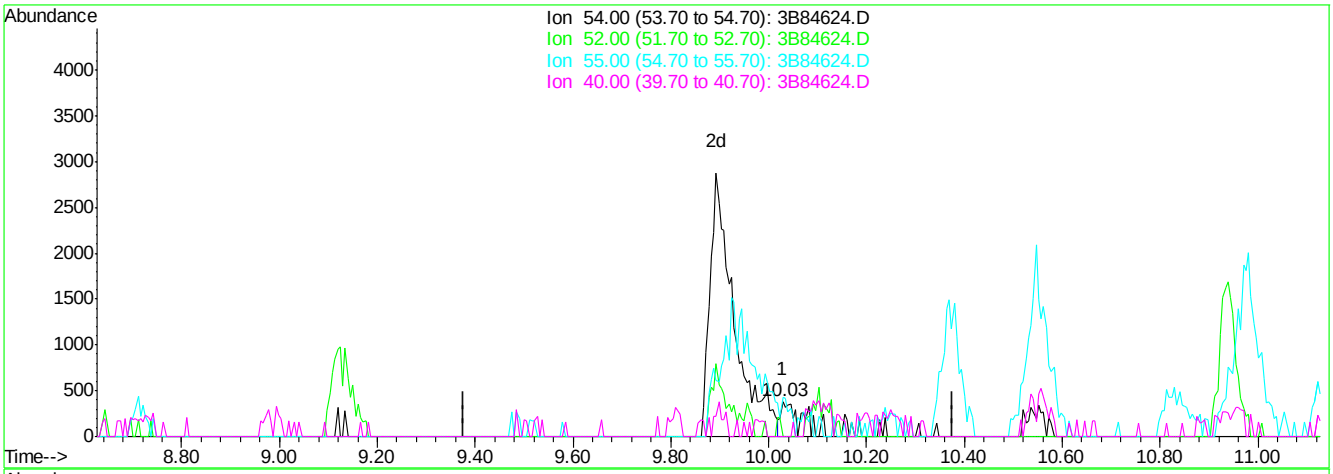
3B84624.D M3B3949.M Wed Jun 20 15:14:29 2012 MS3B

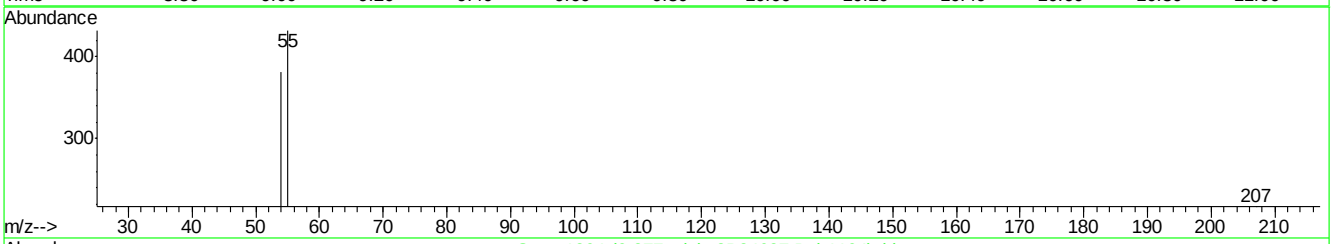
Quantitation Report (Qedit)

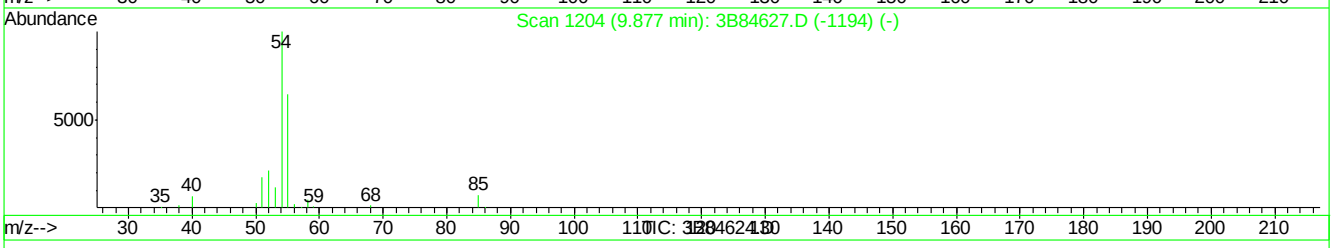
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 20 16:21:47 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Thu Jun 21 08:37:51 2012
Response via : Multiple Level Calibration







(49) propionitrile

10.03min 4.29ug/L

response 657

Ion	Exp%	Act%
54.00	100	100
52.00	21.50	0.00
55.00	64.60	59.95
40.00	7.10	0.00

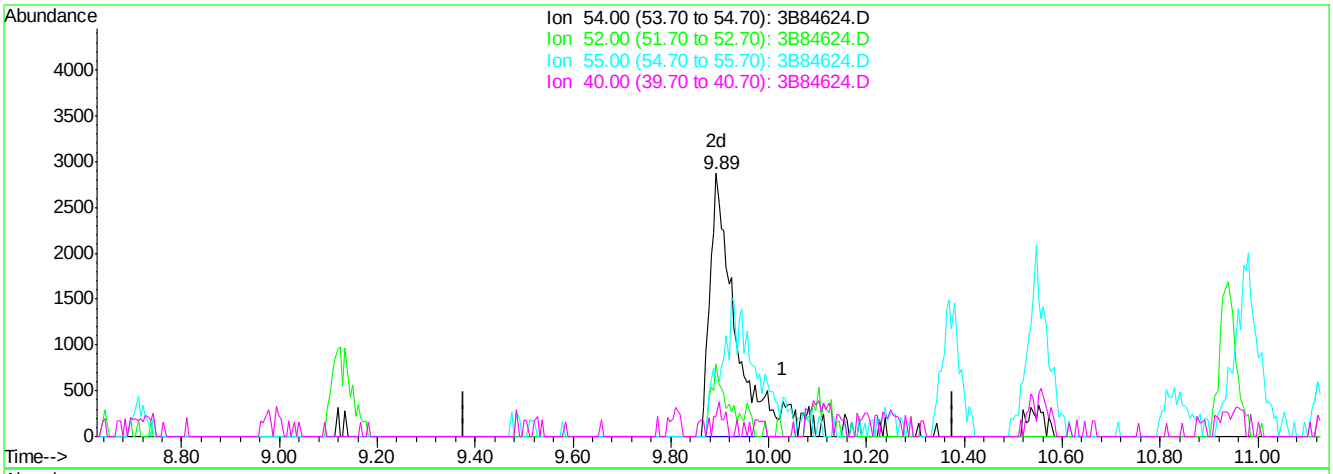
3B84624.D M3B3949.M Thu Jun 21 08:38:54 2012 MS3B

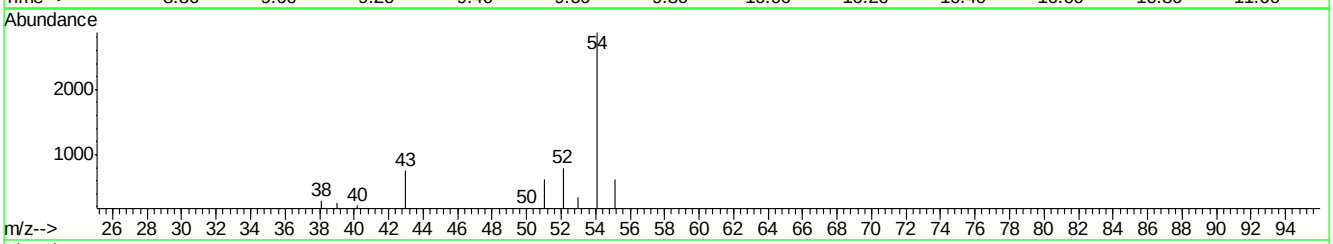
Quantitation Report (Qedit)

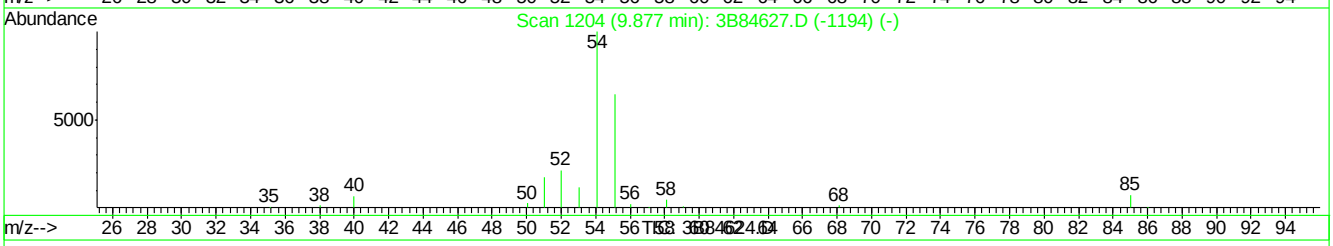
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 20 16:21:47 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Thu Jun 21 08:37:51 2012
Response via : Multiple Level Calibration







(49) propionitrile

9.89min 69.26ug/L m

response 10598

Ion	Exp%	Act%
54.00	100	100
52.00	21.50	27.67
55.00	64.60	21.51#
40.00	7.10	7.76

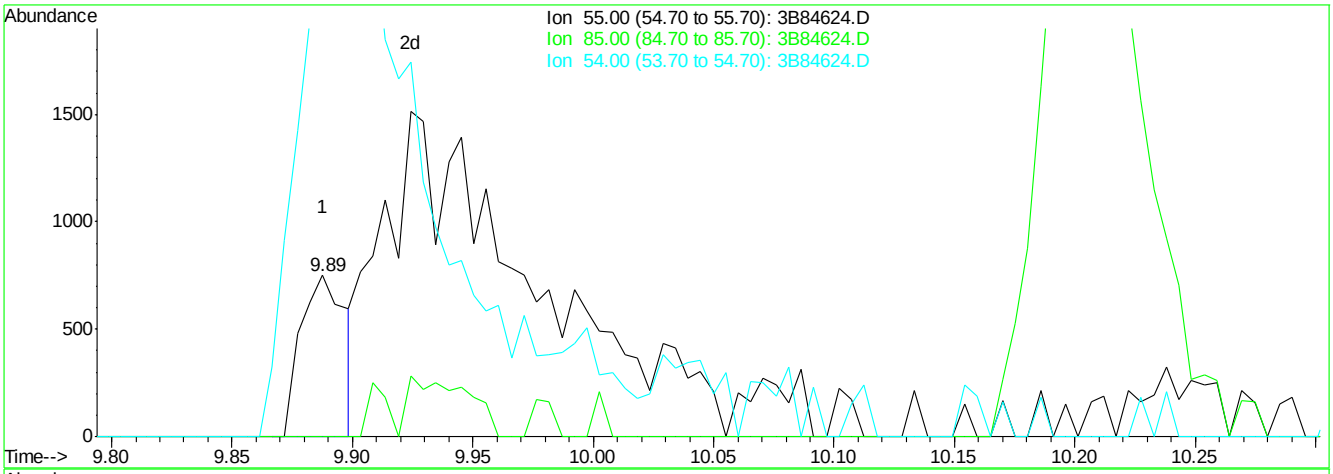
3B84624.D M3B3949.M Thu Jun 21 08:39:05 2012 MS3B

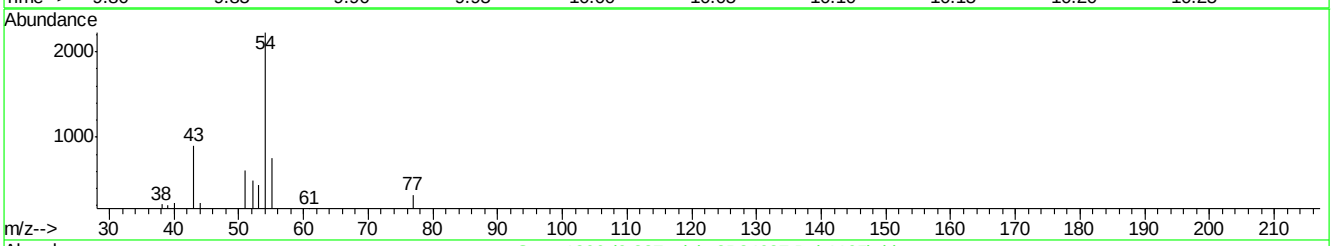
Quantitation Report (Qedit)

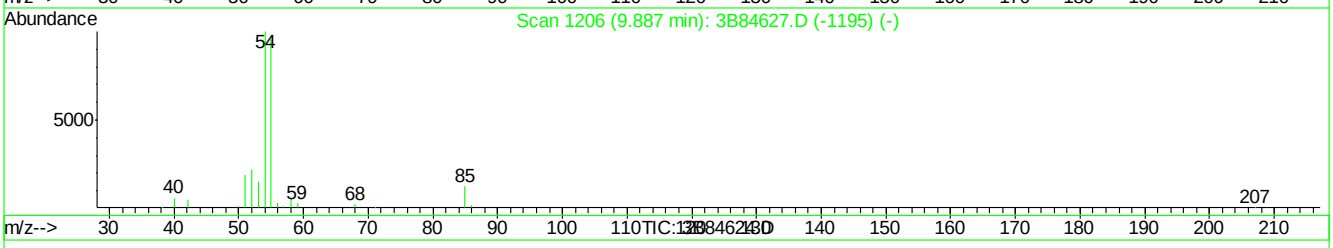
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 21 08:39:00 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Thu Jun 21 08:37:51 2012
Response via : Multiple Level Calibration







(50) methylacrylate

9.89min 0.94ug/L

response 963

Ion	Exp%	Act%
55.00	100	100
85.00	13.50	0.00
54.00	134.30	1032.29#
0.00	0.00	0.00

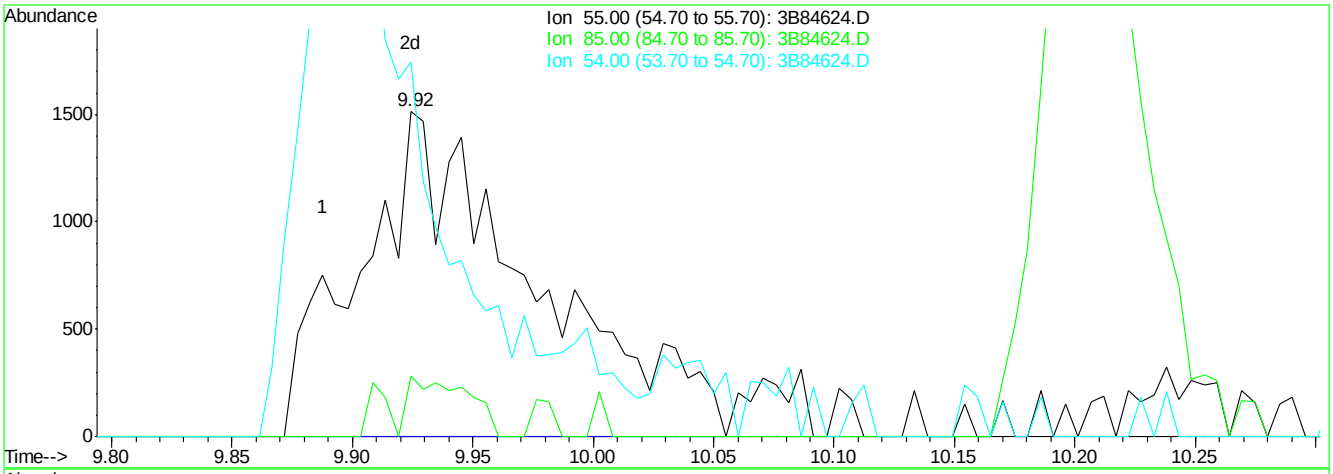
3B84624.D M3B3949.M Thu Jun 21 08:40:25 2012 MS3B

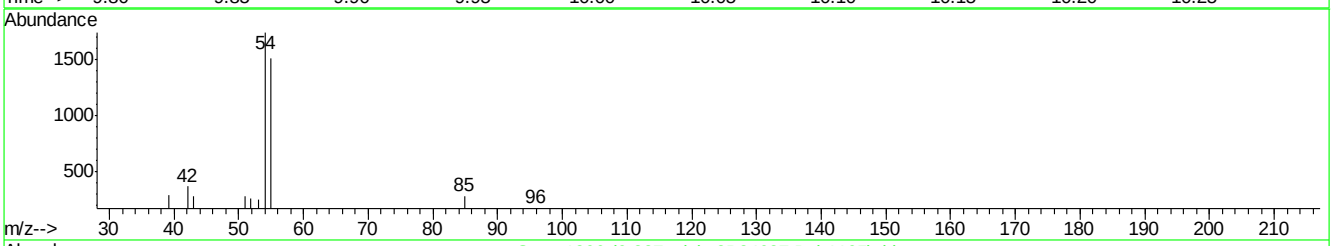
Quantitation Report (Qedit)

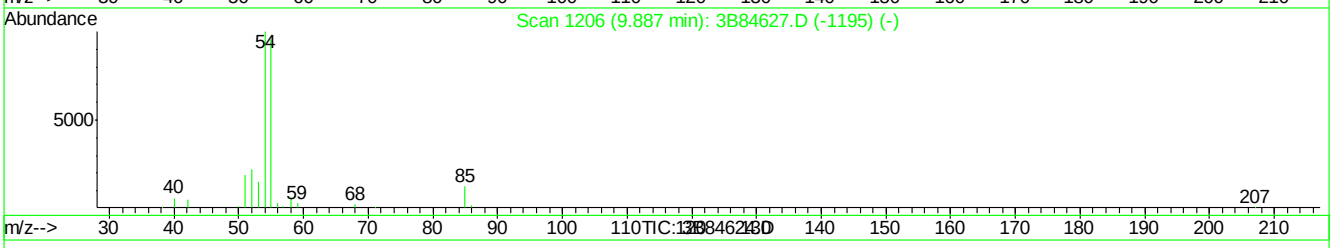
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 21 08:39:00 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Thu Jun 21 08:37:51 2012
Response via : Multiple Level Calibration







(50) methylacrylate

9.92min 7.39ug/L m

response 7580

Ion	Exp%	Act%
55.00	100	100
85.00	13.50	0.00
54.00	134.30	131.15
0.00	0.00	0.00

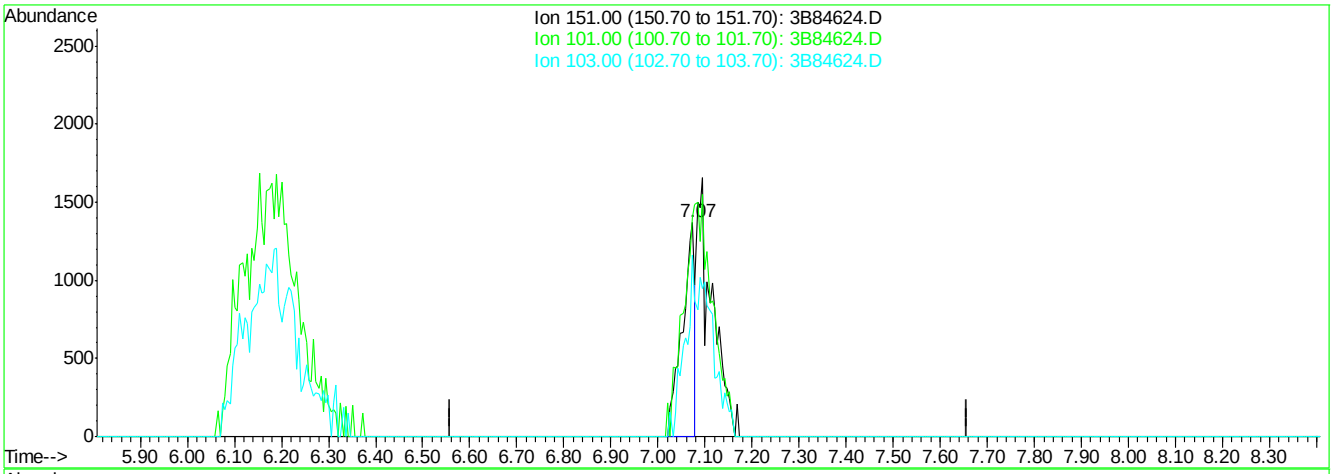
3B84624.D M3B3949.M Thu Jun 21 08:40:33 2012 MS3B

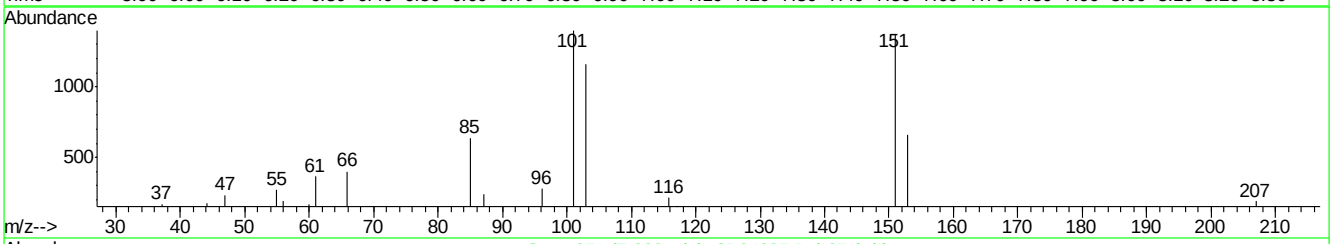
Quantitation Report (Qedit)

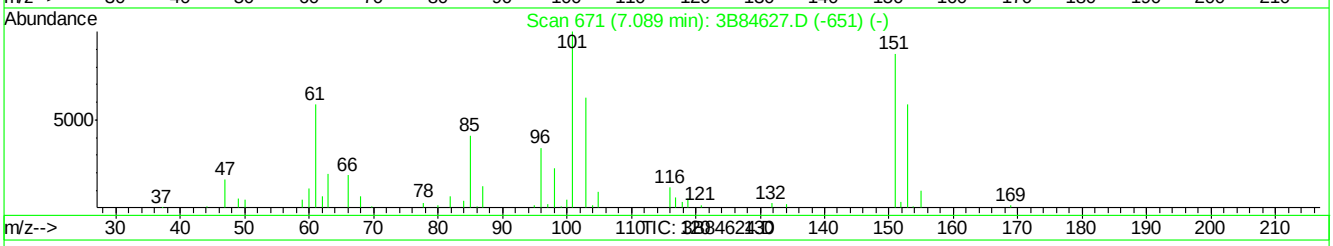
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 21 08:40:29 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Thu Jun 21 08:41:29 2012
Response via : Multiple Level Calibration







(57) freon 113

7.07min 2.75ug/L

response 2561

Ion	Exp%	Act%
151.00	100	100
101.00	114.80	101.82
103.00	72.20	84.71
0.00	0.00	0.00

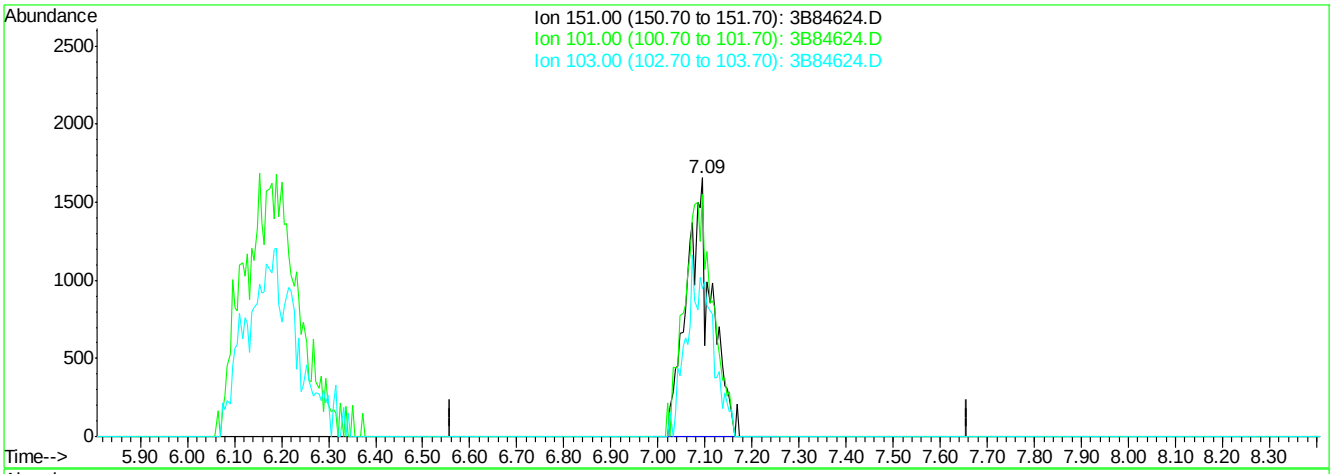
3B84624.D M3B3949.M Thu Jun 21 08:42:53 2012 MS3B

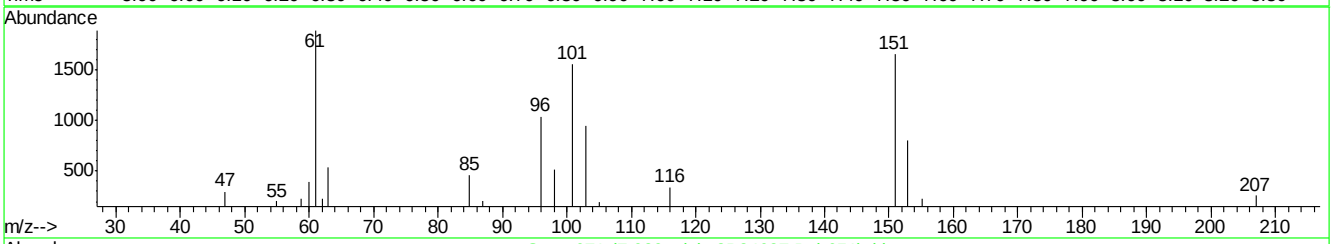
Quantitation Report (Qedit)

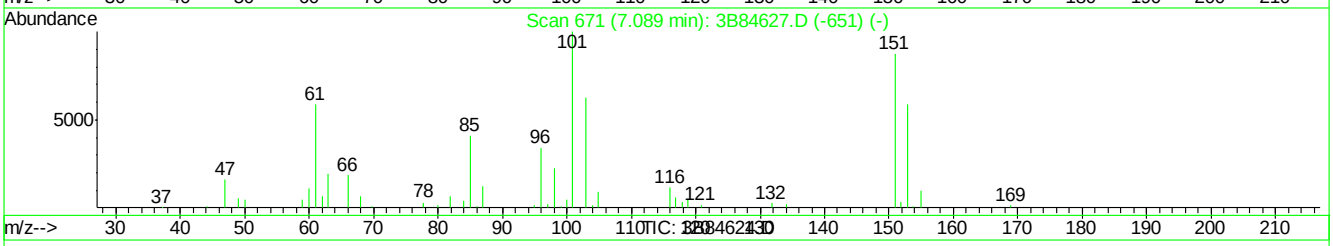
Data File : C:\MSDChem\1\DATA\3B84624.D Vial: 5
Acq On : 20 Jun 2012 2:00 pm Operator: tarar1
Sample : ic3949-5 Inst : MS3B
Misc : ms31465,v3b3949,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jun 21 08:40:29 2012 Results File: M3B3949.RES

Method : C:\MSDCHEM\1\METHODS\M3B3949.M (RTE Integrator)
Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
Last Update : Thu Jun 21 08:41:29 2012
Response via : Multiple Level Calibration







(57) freon 113

7.09min 6.73ug/L m

response 6274

Ion	Exp%	Act%
151.00	100	100
101.00	114.80	93.78
103.00	72.20	57.07
0.00	0.00	0.00

3B84624.D M3B3949.M Thu Jun 21 08:42:58 2012 MS3B

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84625.D
Acq On : 20 Jun 2012 2:30 pm
Operator : tarar1
Sample : ic3949-10
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 15:01:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 14:59:54 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.93	65	83633	500.00	ug/L	0.00
5) pentafluorobenzene	10.38	168	202241	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.34	114	259066	50.00	ug/L	0.00
93) chlorobenzene-d5	14.67	117	231863	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	144807	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.42	113	15074	10.39	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 20.78%#			
56) 1,2-dichloroethane-d4 (s)	10.87	65	21087	10.08	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 20.16%#			
85) toluene-d8 (s)	13.06	98	50874	9.86	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 19.72%#			
111) 4-bromofluorobenzene (s)	15.91	95	19998	9.49	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 18.98%#			
Target Compounds						Qvalue
3) tertiary butyl alcohol	8.06	59	8456	50.13	ug/L	100
4) 1,4-dioxane	12.08	88	2562	195.77	ug/L	100
10) chlorotrifluoroethene	3.96	116	5956	10.00	ug/L #	100
11) chlorodifluoromethane	4.09	51	12845	6.79	ug/L	100
12) dichlorodifluoromethane	4.05	85	20149	8.19	ug/L	100
15) chloromethane	4.42	50	16648	7.71	ug/L	100
16) vinyl chloride	4.70	62	16573	8.41	ug/L	100
18) bromomethane	5.44	94	12354	9.13	ug/L	100
19) chloroethane	5.64	64	7813	8.05	ug/L	100
21) trichlorofluoromethane	6.18	101	24334	8.75	ug/L	100
23) ethyl ether	6.67	74	7369	9.84	ug/L	100
26) freon 123a	6.67	117	13863	10.00	ug/L	100
27) acrolein	6.94	56	28356	92.22	ug/L	100
28) 1,1-dichloroethene	7.12	96	11812	9.53	ug/L	100
29) acetone	7.23	43	4871	9.94	ug/L	100
30) allyl chloride	7.73	76	7493	8.75	ug/L	100
31) acetonitrile	7.73	40	9699	75.06	ug/L	100
32) iodomethane	7.43	142	25489	9.41	ug/L	100
33) iso-butyl alcohol	10.94	74	4866	95.40	ug/L	100
34) carbon disulfide	7.60	76	38619	8.72	ug/L	100
35) methylene chloride	7.94	84	13763	9.12	ug/L	100
36) methyl acetate	7.75	74	1773	11.96	ug/L	100
37) methyl tert butyl ether	8.32	73	48706	10.21	ug/L	100
38) trans-1,2-dichloroethene	8.37	96	13296	9.84	ug/L	100
39) di-isopropyl ether	9.00	45	42514	9.01	ug/L	100
40) 2-butanone	9.81	72	1427	12.94	ug/L	100
41) 1,1-dichloroethane	9.00	63	23513	9.10	ug/L	100
42) chloroprene	9.13	53	20797	9.64	ug/L	100
43) acrylonitrile	8.33	53	26480	51.36	ug/L	100
44) vinyl acetate	9.03	86	1742	10.68	ug/L	100
45) ethyl tert-butyl ether	9.51	59	48136	9.44	ug/L	100
46) ethyl acetate	9.82	45	1698	11.46	ug/L	100
47) 2,2-dichloropropane	9.81	77	23284	9.62	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84625.D
Acq On : 20 Jun 2012 2:30 pm
Operator : tarar1
Sample : ic3949-10
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 15:01:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 14:59:54 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.81	96	14658	9.30	ug/L		100
49) propionitrile	9.90	54	19924	100.56	ug/L		100
50) methylacrylate	9.92	55	14437	9.43	ug/L		100
51) bromochloromethane	10.15	128	8111	9.98	ug/L		100
52) tetrahydrofuran	10.20	42	4755	9.51	ug/L		100
53) chloroform	10.21	83	27356	9.38	ug/L		100
54) t-butyl formate	10.24	59	16333	10.00	ug/L	#	100
57) freon 113	7.08	151	11809	9.17	ug/L		100
58) methacrylonitrile	10.10	41	10160	10.40	ug/L		100
59) 1,1,1-trichloroethane	10.47	97	24580	9.38	ug/L		100
60) Cyclohexane	10.54	84	17017	8.68	ug/L		100
61) tert amyl alcohol	10.83	59	9547	52.34	ug/L		100
62) iso-octane	10.95	57	39615	9.68	ug/L		100
64) tert-amyl ethyl ether	11.86	59	36650	9.66	ug/L		100
65) epichlorohydrin	12.65	57	7860	54.88	ug/L		100
66) n-butyl alcohol	11.50	56	16262	479.11	ug/L		100
67) carbon tetrachloride	10.69	117	23731	10.57	ug/L		100
68) 1,1-dichloropropene	10.67	75	18176	9.88	ug/L		100
69) hexane	8.72	57	15221	9.63	ug/L		100
70) benzene	10.94	78	49479	9.56	ug/L		100
71) tert-amyl methyl ether	10.98	73	44932	10.35	ug/L		100
72) heptane	11.14	57	8113	9.86	ug/L		100
73) isopropyl acetate	10.88	43	27731	10.55	ug/L		100
74) 1,2-dichloroethane	10.96	62	25732	10.92	ug/L		100
76) trichloroethene	11.70	95	14326	9.99	ug/L		100
77) 2-nitropropane	12.88	46	287	10.94	ug/L		100
78) 2-chloroethyl vinyl ether	12.52	63	40387	46.47	ug/L		100
79) methyl methacrylate	11.98	69	9883	10.66	ug/L		100
80) 1,2-dichloropropane	11.96	63	13032	9.88	ug/L		100
81) dibromomethane	12.14	93	10108	10.65	ug/L		100
82) methylcyclohexane	11.92	83	21281	10.08	ug/L		100
83) bromodichloromethane	12.27	83	22460	10.40	ug/L		100
84) cis-1,3-dichloropropene	12.75	75	24121	9.71	ug/L		100
86) 4-methyl-2-pentanone	12.86	58	5771	10.67	ug/L		100
87) toluene	13.14	92	33148	9.74	ug/L		100
88) 3-methyl-1-butanol	12.89	55	12469	220.01	ug/L		100
89) trans-1,3-dichloropropene	13.35	75	25174	10.56	ug/L		100
90) ethyl methacrylate	13.34	69	18186	10.37	ug/L		100
91) 1,1,2-trichloroethane	13.57	83	10943	10.11	ug/L		100
92) 2-hexanone	13.76	58	4980	10.06	ug/L		100
94) tetrachloroethene	13.76	164	14508	11.17	ug/L		100
95) 3,3-dimethyl-1-butanol	13.95	57	14203	113.03	ug/L	#	100
96) 1,3-dichloropropane	13.77	76	20253	10.03	ug/L		100
97) butyl acetate	13.84	56	8815	11.31	ug/L		100
98) dibromochloromethane	14.05	129	19429	11.60	ug/L		100
99) 1,2-dibromoethane	14.21	107	15578	11.50	ug/L		100
101) chlorobenzene	14.71	112	39287	10.36	ug/L		100
102) 1,1,1,2-tetrachloroethane	14.77	131	17484	11.19	ug/L		100
103) ethylbenzene	14.76	91	63370	9.97	ug/L		100
104) m,p-xylene	14.88	106	49707	20.24	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84625.D
Acq On : 20 Jun 2012 2:30 pm
Operator : tarar1
Sample : ic3949-10
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 15:01:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 14:59:54 2012
Response via : Initial Calibration

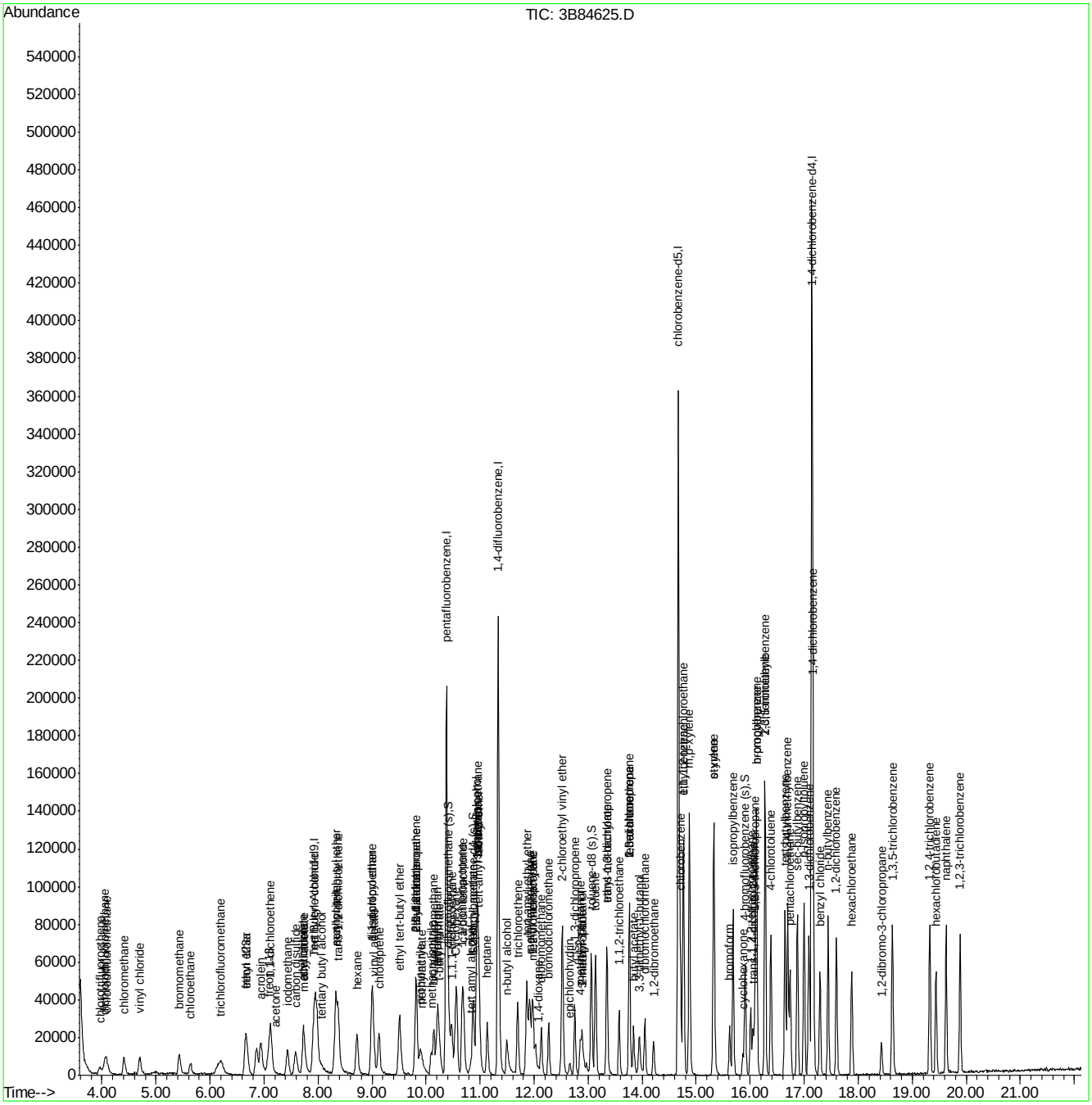
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) o-xylene	15.32	106	27365	10.59	ug/L	100
107) styrene	15.33	104	43316	10.13	ug/L	100
108) bromoform	15.62	173	16158	12.02	ug/L	100
110) isopropylbenzene	15.68	105	69259	9.95	ug/L	100
112) cyclohexanone	15.87	55	6575	244.23	ug/L	100
113) bromobenzene	16.12	156	20396	10.13	ug/L	100
114) 1,1,2,2-tetrachloroethane	16.01	83	19656	10.69	ug/L	100
115) trans-1,4-dichloro-2-buten	16.05	53	5573	10.13	ug/L	100
116) 1,2,3-trichloropropane	16.09	110	6551	12.23	ug/L	100
117) n-propylbenzene	16.12	91	75232	9.84	ug/L	100
119) 2-chlorotoluene	16.28	126	17313	10.37	ug/L	99
120) 4-chlorotoluene	16.38	91	49704	9.66	ug/L	100
121) 1,3,5-trimethylbenzene	16.27	105	57999	9.72	ug/L	100
122) tert-butylbenzene	16.64	119	52053	9.96	ug/L	100
123) pentachloroethane	16.73	167	14214	10.29	ug/L	100
124) 1,2,4-trimethylbenzene	16.70	105	60457	9.80	ug/L	100
125) sec-butylbenzene	16.87	105	71794	9.68	ug/L	100
126) 1,3-dichlorobenzene	17.08	146	37272	9.74	ug/L	100
127) p-isopropyltoluene	17.00	119	63667	9.82	ug/L	100
128) 1,4-dichlorobenzene	17.17	146	37759	9.58	ug/L	100
129) benzyl chloride	17.29	91	46017	11.69	ug/L	100
130) 1,2-dichlorobenzene	17.60	146	37666	9.70	ug/L	100
132) n-butylbenzene	17.44	92	28795	9.32	ug/L	100
134) 1,2-dibromo-3-chloropropan	18.43	75	5659	13.29	ug/L	100
135) 1,3,5-trichlorobenzene	18.64	180	33987	9.84	ug/L	100
136) 1,2,4-trichlorobenzene	19.33	180	33153	11.05	ug/L	100
137) hexachlorobutadiene	19.44	225	14870	9.81	ug/L	100
138) naphthalene	19.63	128	77005	12.77	ug/L	100
139) 1,2,3-trichlorobenzene	19.89	180	31201	10.11	ug/L	100
140) hexachloroethane	17.87	201	13206	9.90	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84625.D
Acq On : 20 Jun 2012 2:30 pm
Operator : tarar1
Sample : ic3949-10
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 15:01:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 14:59:54 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84626.D
Acq On : 20 Jun 2012 3:00 pm
Operator : tarar1
Sample : ic3949-20
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 16:12:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:09:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	91785	500.00	ug/L	-0.02
5) pentafluorobenzene	10.37	168	195879	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.33	114	247933	50.00	ug/L	0.00
93) chlorobenzene-d5	14.67	117	229537	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	138775	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.42	113	76000	54.24	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 108.48%			
56) 1,2-dichloroethane-d4 (s)	10.86	65	108565	53.38	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 106.76%			
85) toluene-d8 (s)	13.05	98	251354	52.75	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 105.50%			
111) 4-bromofluorobenzene (s)	15.90	95	102963	50.90	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 101.80%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	8.06	59	18146	99.42	ug/L	100
4) 1,4-dioxane	12.09	88	6223	51.09	ug/L	93
10) chlorotrifluoroethene	3.96	116	12373	20.98	ug/L	96
11) chlorodifluoromethane	4.07	51	26602	21.38	ug/L	89
12) dichlorodifluoromethane	4.05	85	43373	21.69	ug/L	94
15) chloromethane	4.41	50	32262	22.16	ug/L	99
16) vinyl chloride	4.70	62	31698	18.72	ug/L	98
18) bromomethane	5.42	94	23508	21.85	ug/L	95
19) chloroethane	5.63	64	16568	22.51	ug/L	95
21) trichlorofluoromethane	6.18	101	52404	29.12	ug/L	98
23) ethyl ether	6.64	74	14236	20.31	ug/L	88
26) freon 123a	6.68	117	26078	20.66	ug/L	98
27) acrolein	6.93	56	59916	212.72	ug/L	97
28) 1,1-dichloroethene	7.12	96	22796	22.02	ug/L	98
29) acetone	7.19	43	10697	12.65	ug/L	92
30) allyl chloride	7.73	76	14799	12.34	ug/L #	85
31) acetonitrile	7.72	40	20887	199.29	ug/L #	80
32) iodomethane	7.43	142	50168	21.09	ug/L	94
33) iso-butyl alcohol	10.94	74	8808	123.20	ug/L #	86
34) carbon disulfide	7.58	76	71736	19.62	ug/L	99
35) methylene chloride	7.95	84	26981	13.24	ug/L	92
36) methyl acetate	7.73	74	4894	19.01	ug/L #	75
37) methyl tert butyl ether	8.32	73	91934	20.83	ug/L	100
38) trans-1,2-dichloroethene	8.37	96	24771	20.28	ug/L	90
39) di-isopropyl ether	8.99	45	83230	20.51	ug/L #	76
40) 2-butanone	9.80	72	3639	20.92	ug/L #	57
41) 1,1-dichloroethane	9.00	63	46702	21.29	ug/L	96
42) chloroprene	9.12	53	41109	21.69	ug/L	98
43) acrylonitrile	8.31	53	57671	122.59	ug/L	91
44) vinyl acetate	9.01	86	4328	18.30	ug/L	53
45) ethyl tert-butyl ether	9.50	59	94681	20.67	ug/L	94
46) ethyl acetate	9.82	45	4586	19.87	ug/L	69
47) 2,2-dichloropropane	9.81	77	44602	20.42	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84626.D
Acq On : 20 Jun 2012 3:00 pm
Operator : tarar1
Sample : ic3949-20
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 16:12:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:09:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.81	96	27176	19.86	ug/L		96
49) propionitrile	9.88	54	46345	276.14	ug/L	#	70
50) methylacrylate	9.90	55	32850	29.69	ug/L		94
51) bromochloromethane	10.14	128	16223	23.28	ug/L		87
52) tetrahydrofuran	10.19	42	11324	20.77	ug/L		86
53) chloroform	10.21	83	52103	19.88	ug/L		99
54) t-butyl formate	10.24	59	33098	20.22	ug/L	#	98
57) freon 113	7.10	151	24942	28.39	ug/L		87
58) methacrylonitrile	10.08	41	19312	18.89	ug/L		97
59) 1,1,1-trichloroethane	10.46	97	47648	20.85	ug/L		94
60) Cyclohexane	10.54	84	32879	20.23	ug/L	#	69
61) tert amyl alcohol	10.83	59	21169	129.88	ug/L		97
62) iso-octane	10.94	57	77629	20.39	ug/L		99
64) tert-amyl ethyl ether	11.86	59	72620	20.26	ug/L		98
65) epichlorohydrin	12.65	57	16574	103.29	ug/L		90
66) n-butyl alcohol	11.48	56	44821	1206.08	ug/L		98
67) carbon tetrachloride	10.69	117	46579	20.68	ug/L		97
68) 1,1-dichloropropene	10.66	75	36637	21.16	ug/L		95
69) hexane	8.71	57	30040	20.77	ug/L		95
70) benzene	10.93	78	91990	19.81	ug/L		97
71) tert-amyl methyl ether	10.98	73	86962	19.76	ug/L		98
72) heptane	11.13	57	16276	20.82	ug/L		86
73) isopropyl acetate	10.87	43	55833	6.73	ug/L		99
74) 1,2-dichloroethane	10.95	62	47659	21.35	ug/L		91
76) trichloroethene	11.69	95	27183	20.44	ug/L		95
77) 2-nitropropane	12.88	46	1009	17.74	ug/L	#	78
78) 2-chloroethyl vinyl ether	12.52	63	82590	104.68	ug/L		98
79) methyl methacrylate	11.97	69	18421	23.35	ug/L		89
80) 1,2-dichloropropane	11.96	63	24348	20.66	ug/L		96
81) dibromomethane	12.13	93	19506	21.75	ug/L		94
82) methylcyclohexane	11.92	83	42249	21.48	ug/L		94
83) bromodichloromethane	12.27	83	43247	20.79	ug/L		100
84) cis-1,3-dichloropropene	12.75	75	45888	20.93	ug/L		97
86) 4-methyl-2-pentanone	12.85	58	11980	24.02	ug/L	#	84
87) toluene	13.14	92	62108	20.03	ug/L		96
88) 3-methyl-1-butanol	12.88	55	29193	387.09	ug/L		91
89) trans-1,3-dichloropropene	13.34	75	48599	21.59	ug/L		94
90) ethyl methacrylate	13.34	69	35955	21.82	ug/L		97
91) 1,1,2-trichloroethane	13.57	83	20265	20.75	ug/L		85
92) 2-hexanone	13.76	58	10327	21.43	ug/L		94
94) tetrachloroethene	13.76	164	27280	19.29	ug/L		95
95) 3,3-dimethyl-1-butanol	13.94	57	30641	172.73	ug/L		97
96) 1,3-dichloropropane	13.76	76	42268	20.96	ug/L		96
97) butyl acetate	13.84	56	17731	18.98	ug/L	#	76
98) dibromochloromethane	14.05	129	38312	21.02	ug/L		98
99) 1,2-dibromoethane	14.21	107	29581	20.45	ug/L		89
101) chlorobenzene	14.70	112	74960	19.56	ug/L		99
102) 1,1,1,2-tetrachloroethane	14.77	131	33782	20.49	ug/L		94
103) ethylbenzene	14.76	91	121416	19.84	ug/L		95
104) m,p-xylene	14.87	106	97779	39.00	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84626.D
Acq On : 20 Jun 2012 3:00 pm
Operator : tarar1
Sample : ic3949-20
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 16:12:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:09:49 2012
Response via : Initial Calibration

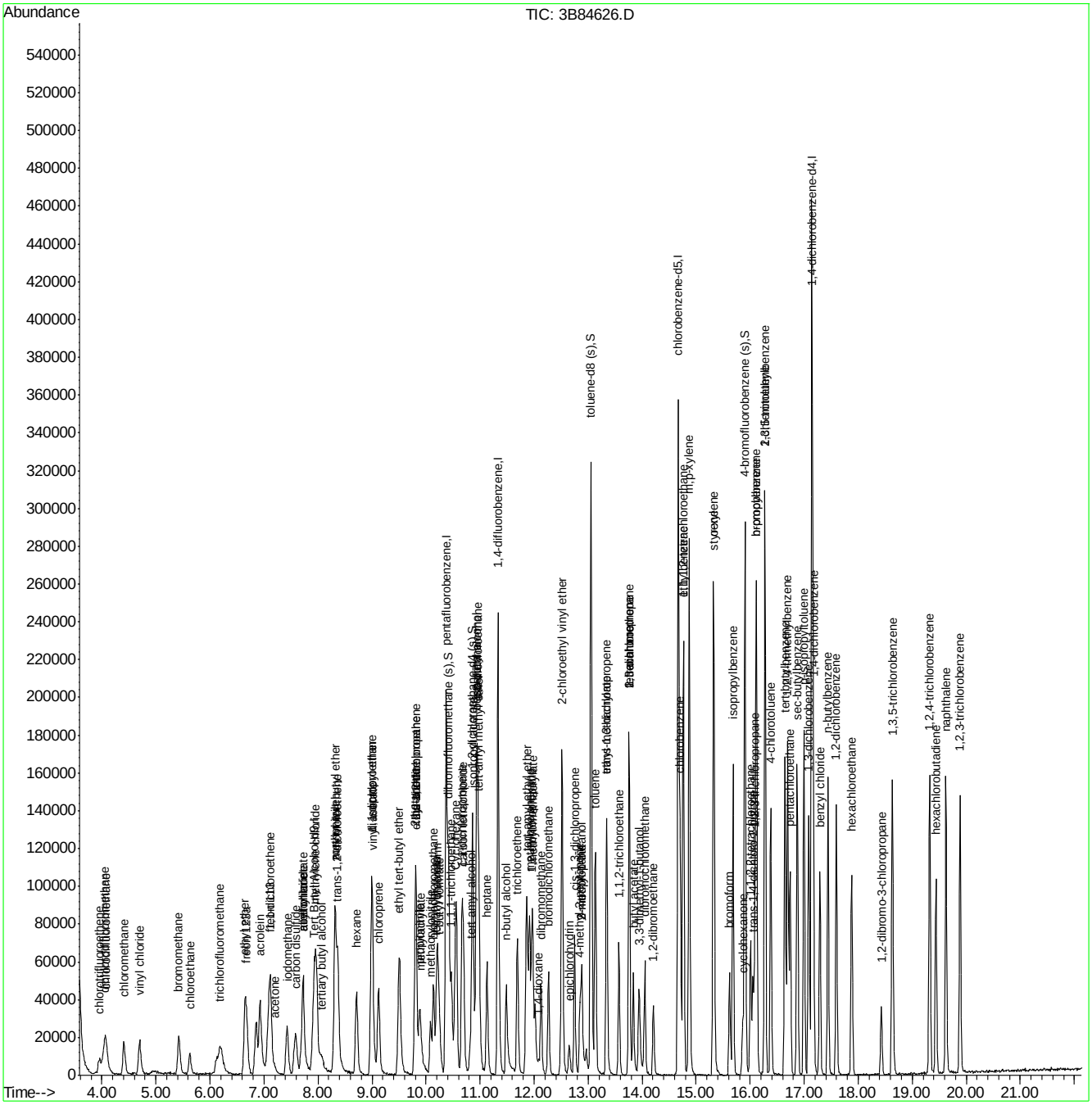
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) o-xylene	15.32	106	52039	20.38	ug/L	88
107) styrene	15.33	104	83086	20.26	ug/L	97
108) bromoform	15.61	173	30983	20.97	ug/L	91
110) isopropylbenzene	15.68	105	130679	19.73	ug/L	96
112) cyclohexanone	15.86	55	15593	396.45	ug/L	96
113) bromobenzene	16.11	156	38586	20.10	ug/L	95
114) 1,1,2,2-tetrachloroethane	16.00	83	37638	20.19	ug/L	95
115) trans-1,4-dichloro-2-buten	16.04	53	12899	23.32	ug/L	92
116) 1,2,3-trichloropropane	16.09	110	12562	21.06	ug/L	94
117) n-propylbenzene	16.12	91	138551	19.28	ug/L	98
119) 2-chlorotoluene	16.27	126	32930	19.72	ug/L	95
120) 4-chlorotoluene	16.38	91	94142	19.57	ug/L	97
121) 1,3,5-trimethylbenzene	16.27	105	111392	19.77	ug/L	96
122) tert-butylbenzene	16.65	119	100251	19.92	ug/L	97
123) pentachloroethane	16.74	167	28781	20.71	ug/L	97
124) 1,2,4-trimethylbenzene	16.69	105	113006	19.78	ug/L	99
125) sec-butylbenzene	16.87	105	136284	19.68	ug/L	98
126) 1,3-dichlorobenzene	17.08	146	70190	19.16	ug/L	99
127) p-isopropyltoluene	17.00	119	121025	19.71	ug/L	99
128) 1,4-dichlorobenzene	17.17	146	70270	19.20	ug/L	99
129) benzyl chloride	17.29	91	91679	17.81	ug/L	99
130) 1,2-dichlorobenzene	17.59	146	71600	19.73	ug/L	95
132) n-butylbenzene	17.44	92	55003	20.01	ug/L	91
134) 1,2-dibromo-3-chloropropan	18.43	75	11521	21.80	ug/L	96
135) 1,3,5-trichlorobenzene	18.63	180	65091	19.82	ug/L	99
136) 1,2,4-trichlorobenzene	19.32	180	65849	20.53	ug/L	92
137) hexachlorobutadiene	19.44	225	29178	19.06	ug/L	96
138) naphthalene	19.62	128	153899	21.00	ug/L	99
139) 1,2,3-trichlorobenzene	19.89	180	61829	19.73	ug/L	95
140) hexachloroethane	17.88	201	26730	20.92	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84626.D
Acq On : 20 Jun 2012 3:00 pm
Operator : tarar1
Sample : ic3949-20
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 16:12:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:09:49 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84627.D
Acq On : 20 Jun 2012 3:31 pm
Operator : tarar1
Sample : icc3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 16:14:53 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:12:35 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.93	65	99823	500.00	ug/L	0.00
5) pentafluorobenzene	10.37	168	194172	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.33	114	253929	50.00	ug/L	0.00
93) chlorobenzene-d5	14.67	117	235294	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	139793	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.42	113	77874	55.29	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 110.58%			
56) 1,2-dichloroethane-d4 (s)	10.86	65	107340	52.65	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 105.30%			
85) toluene-d8 (s)	13.05	98	263567	53.52	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 107.04%			
111) 4-bromofluorobenzene (s)	15.90	95	106477	52.09	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 104.18%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	8.06	59	51960	262.06	ug/L	100
4) 1,4-dioxane	12.08	88	19018	168.81	ug/L	100
10) chlorotrifluoroethene	3.96	116	36337	61.64	ug/L	100
11) chlorodifluoromethane	4.08	51	68530	53.71	ug/L	95
12) dichlorodifluoromethane	4.06	85	114832	56.96	ug/L	100
15) chloromethane	4.42	50	83423	56.79	ug/L	100
16) vinyl chloride	4.72	62	85363	50.39	ug/L	100
18) bromomethane	5.43	94	57944	53.51	ug/L	100
19) chloroethane	5.62	64	41162	55.26	ug/L	100
21) trichlorofluoromethane	6.21	101	132928	69.25	ug/L	100
23) ethyl ether	6.64	74	37653	54.02	ug/L	100
26) freon 123a	6.68	117	69829	55.50	ug/L	100
27) acrolein	6.93	56	151543	537.05	ug/L	100
28) 1,1-dichloroethene	7.13	96	60822	58.29	ug/L	100
29) acetone	7.20	43	28352	36.02	ug/L	100
30) allyl chloride	7.72	76	41851	37.60	ug/L	100
31) acetonitrile	7.72	40	62320	600.21	ug/L	100
32) iodomethane	7.43	142	136439	57.35	ug/L	100
33) iso-butyl alcohol	10.94	74	23231	350.22	ug/L	100
34) carbon disulfide	7.58	76	197272	54.61	ug/L	100
35) methylene chloride	7.94	84	70008	36.71	ug/L	100
36) methyl acetate	7.73	74	14184	50.38	ug/L	100
37) methyl tert butyl ether	8.32	73	240868	54.67	ug/L	100
38) trans-1,2-dichloroethene	8.37	96	65708	54.15	ug/L	100
39) di-isopropyl ether	8.99	45	222866	55.18	ug/L	100
40) 2-butanone	9.78	72	9533	49.80	ug/L	100
41) 1,1-dichloroethane	8.99	63	124437	56.62	ug/L	100
42) chloroprene	9.12	53	107929	56.66	ug/L	100
43) acrylonitrile	8.31	53	144098	297.78	ug/L	100
44) vinyl acetate	8.99	86	13298	51.59	ug/L	100
45) ethyl tert-butyl ether	9.51	59	251691	55.13	ug/L	100
46) ethyl acetate	9.81	45	12434	50.26	ug/L	100
47) 2,2-dichloropropane	9.80	77	118418	54.51	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84627.D
Acq On : 20 Jun 2012 3:31 pm
Operator : tarar1
Sample : icc3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 16:14:53 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:12:35 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.81	96	74719	55.15	ug/L		100
49) propionitrile	9.88	54	118001	666.96	ug/L		100
50) methylacrylate	9.89	55	87879	73.05	ug/L		100
51) bromochloromethane	10.14	128	44273	62.38	ug/L		100
52) tetrahydrofuran	10.19	42	27914	51.16	ug/L		100
53) chloroform	10.21	83	139115	53.60	ug/L		100
54) t-butyl formate	10.24	59	88513	54.44	ug/L	#	100
57) freon 113	7.09	151	65180	69.96	ug/L		100
58) methacrylonitrile	10.08	41	52348	52.13	ug/L		100
59) 1,1,1-trichloroethane	10.47	97	132956	58.28	ug/L		100
60) Cyclohexane	10.55	84	91694	56.82	ug/L		100
61) tert amyl alcohol	10.82	59	55053	324.58	ug/L		100
62) iso-octane	10.94	57	197844	52.25	ug/L		100
64) tert-amyl ethyl ether	11.86	59	186215	50.62	ug/L		100
65) epichlorohydrin	12.65	57	45030	272.50	ug/L		100
66) n-butyl alcohol	11.48	56	126901	3223.40	ug/L		100
67) carbon tetrachloride	10.69	117	125255	53.99	ug/L		100
68) 1,1-dichloropropene	10.66	75	97286	54.34	ug/L		100
69) hexane	8.71	57	80364	53.90	ug/L		100
70) benzene	10.93	78	250315	52.71	ug/L		100
71) tert-amyl methyl ether	10.98	73	223796	49.76	ug/L		100
72) heptane	11.13	57	44180	54.73	ug/L		100
73) isopropyl acetate	10.87	43	156010	20.65	ug/L		100
74) 1,2-dichloroethane	10.95	62	123567	53.44	ug/L		100
76) trichloroethene	11.69	95	76038	55.61	ug/L		100
77) 2-nitropropane	12.88	46	3425	50.77	ug/L		100
78) 2-chloroethyl vinyl ether	12.52	63	224931	276.20	ug/L		100
79) methyl methacrylate	11.97	69	53063	63.90	ug/L		100
80) 1,2-dichloropropane	11.96	63	65325	53.83	ug/L		100
81) dibromomethane	12.13	93	52280	56.11	ug/L		100
82) methylcyclohexane	11.91	83	112521	55.17	ug/L		100
83) bromodichloromethane	12.27	83	115979	54.08	ug/L		100
84) cis-1,3-dichloropropene	12.75	75	127960	56.55	ug/L		100
86) 4-methyl-2-pentanone	12.85	58	32000	60.61	ug/L		100
87) toluene	13.13	92	171682	54.06	ug/L		100
88) 3-methyl-1-butanol	12.88	55	82226	1070.31	ug/L		100
89) trans-1,3-dichloropropene	13.34	75	128806	55.14	ug/L		100
90) ethyl methacrylate	13.33	69	98766	57.66	ug/L		100
91) 1,1,2-trichloroethane	13.57	83	56601	56.23	ug/L		100
92) 2-hexanone	13.75	58	28494	56.72	ug/L		100
94) tetrachloroethene	13.76	164	74049	51.38	ug/L		100
95) 3,3-dimethyl-1-butanol	13.94	57	84776	477.06	ug/L		100
96) 1,3-dichloropropane	13.76	76	112096	53.79	ug/L		100
97) butyl acetate	13.83	56	46880	49.39	ug/L		100
98) dibromochloromethane	14.05	129	103634	55.01	ug/L		100
99) 1,2-dibromoethane	14.21	107	81324	54.63	ug/L		100
101) chlorobenzene	14.70	112	209755	53.59	ug/L		100
102) 1,1,1,2-tetrachloroethane	14.77	131	91640	54.01	ug/L		100
103) ethylbenzene	14.76	91	329670	52.63	ug/L		100
104) m,p-xylene	14.87	106	268235	104.82	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84627.D
Acq On : 20 Jun 2012 3:31 pm
Operator : tarar1
Sample : icc3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 16:14:53 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:12:35 2012
Response via : Initial Calibration

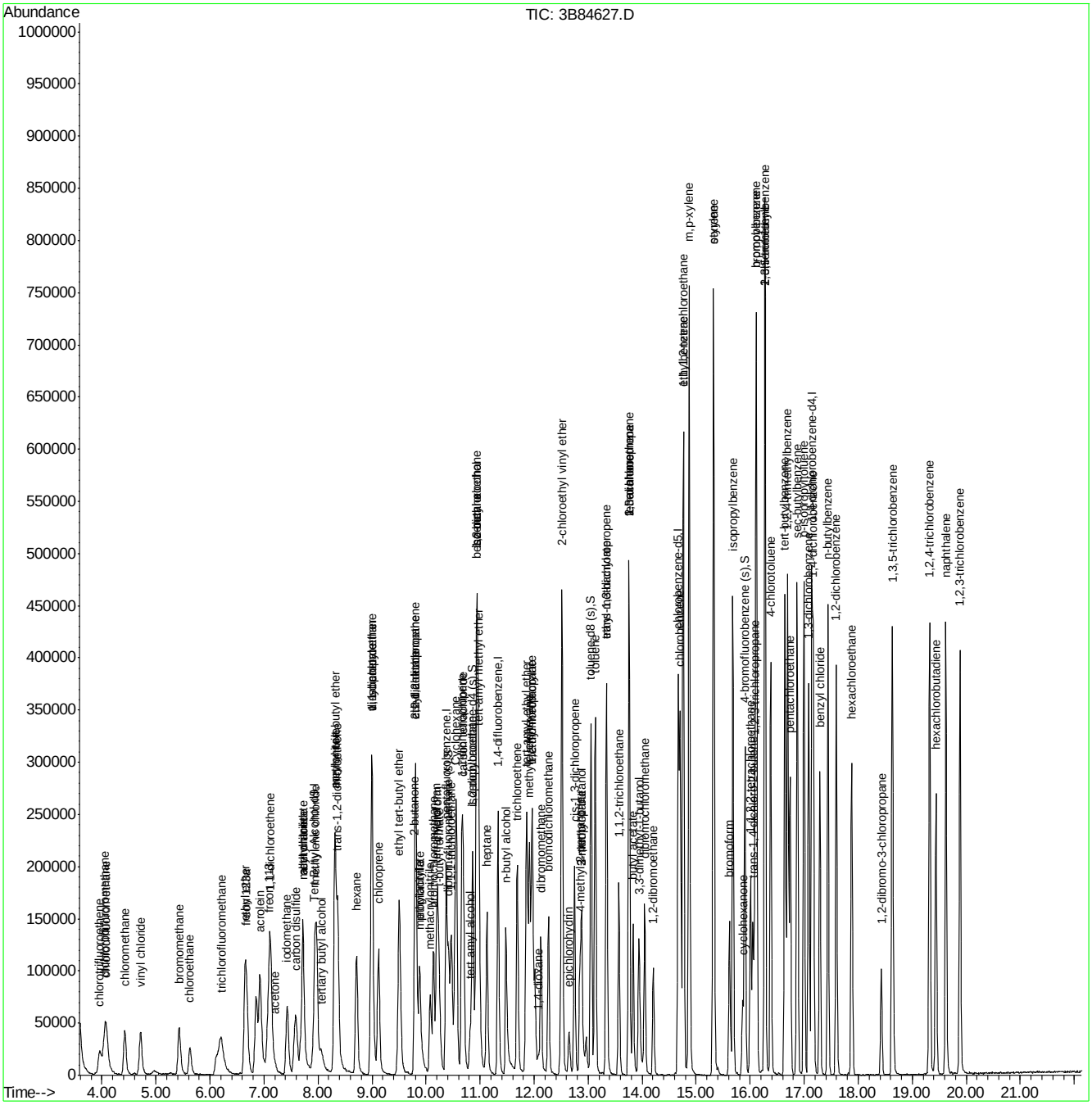
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) o-xylene	15.32	106	141086	53.73	ug/L	100
107) styrene	15.33	104	227875	54.09	ug/L	100
108) bromoform	15.61	173	85344	55.90	ug/L	100
110) isopropylbenzene	15.68	105	358706	53.88	ug/L	100
112) cyclohexanone	15.86	55	40839	1032.30	ug/L	100
113) bromobenzene	16.11	156	103180	53.32	ug/L	100
114) 1,1,2,2-tetrachloroethane	16.01	83	100550	53.46	ug/L	100
115) trans-1,4-dichloro-2-buten	16.05	53	34127	59.61	ug/L	100
116) 1,2,3-trichloropropane	16.09	110	33292	54.93	ug/L	100
117) n-propylbenzene	16.12	91	379794	52.77	ug/L	100
119) 2-chlorotoluene	16.27	126	88604	52.80	ug/L	100
120) 4-chlorotoluene	16.38	91	250605	51.90	ug/L	100
121) 1,3,5-trimethylbenzene	16.27	105	305441	53.91	ug/L	100
122) tert-butylbenzene	16.64	119	280980	55.45	ug/L	100
123) pentachloroethane	16.74	167	76270	54.15	ug/L	100
124) 1,2,4-trimethylbenzene	16.69	105	309186	53.82	ug/L	100
125) sec-butylbenzene	16.87	105	380453	54.70	ug/L	100
126) 1,3-dichlorobenzene	17.08	146	190330	51.93	ug/L	100
127) p-isopropyltoluene	17.00	119	331098	53.66	ug/L	100
128) 1,4-dichlorobenzene	17.17	146	190225	51.95	ug/L	100
129) benzyl chloride	17.29	91	244155	47.97	ug/L	100
130) 1,2-dichlorobenzene	17.59	146	198391	54.40	ug/L	100
132) n-butylbenzene	17.44	92	156683	56.58	ug/L	100
134) 1,2-dibromo-3-chloropropan	18.43	75	30284	55.87	ug/L	100
135) 1,3,5-trichlorobenzene	18.63	180	182501	55.25	ug/L	100
136) 1,2,4-trichlorobenzene	19.32	180	177304	54.63	ug/L	100
137) hexachlorobutadiene	19.44	225	80484	52.61	ug/L	100
138) naphthalene	19.62	128	414429	55.68	ug/L	100
139) 1,2,3-trichlorobenzene	19.88	180	167706	50.01	ug/L	100
140) hexachloroethane	17.88	201	76790	59.21	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84627.D
Acq On : 20 Jun 2012 3:31 pm
Operator : tarar1
Sample : icc3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 16:14:53 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:12:35 2012
Response via : Initial Calibration



M3B3949.M Fri Jun 22 13:21:34 2012 MS3B Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84628.D
Acq On : 20 Jun 2012 4:01 pm
Operator : tarar1
Sample : ic3949-100
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 08:19:09 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.93	65	92259	500.00	ug/L		0.00
5) pentafluorobenzene	10.37	168	196156	50.00	ug/L		0.00
63) 1,4-difluorobenzene	11.33	114	261956	50.00	ug/L		0.00
93) chlorobenzene-d5	14.67	117	247986	50.00	ug/L		0.00
109) 1,4-dichlorobenzene-d4	17.14	152	142221	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.41	113	152913	107.47	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 214.94%#				
56) 1,2-dichloroethane-d4 (s)	10.86	65	207385	100.70	ug/L		0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 201.40%#				
85) toluene-d8 (s)	13.05	98	519597	102.27	ug/L		0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 204.54%#				
111) 4-bromofluorobenzene (s)	15.90	95	211067	101.50	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 203.00%#				
Target Compounds							Qvalue
3) tertiary butyl alcohol	8.06	59	97608	532.65	ug/L		100
4) 1,4-dioxane	12.07	88	41742	3319.03	ug/L		91
10) chlorotrifluoroethene	3.95	116	72641	121.99	ug/L		96
11) chlorodifluoromethane	4.07	51	139550	106.87	ug/L		96
12) dichlorodifluoromethane	4.04	85	227643	111.78	ug/L		100
15) chloromethane	4.42	50	173353	116.81	ug/L		99
16) vinyl chloride	4.71	62	173060	100.49	ug/L		96
18) bromomethane	5.43	94	123692	113.07	ug/L		95
19) chloroethane	5.62	64	84408	112.16	ug/L		97
21) trichlorofluoromethane	6.19	101	278091	143.41	ug/L		92
23) ethyl ether	6.63	74	77045	109.42	ug/L		94
26) freon 123a	6.67	117	139915	110.09	ug/L		100
28) 1,1-dichloroethene	7.12	96	123028	116.71	ug/L		98
29) acetone	7.18	43	50177	53.82	ug/L		90
30) allyl chloride	7.71	76	92188	81.98	ug/L	#	81
31) acetonitrile	7.70	40	118013	1125.09	ug/L	#	65
32) iodomethane	7.42	142	275560	114.66	ug/L		98
33) iso-butyl alcohol	10.93	74	46180	689.15	ug/L	#	71
34) carbon disulfide	7.58	76	391519	107.29	ug/L		96
35) methylene chloride	7.94	84	141265	73.33	ug/L		98
36) methyl acetate	7.71	74	28363	96.72	ug/L	#	58
37) methyl tert butyl ether	8.32	73	477335	107.24	ug/L		97
38) trans-1,2-dichloroethene	8.36	96	133750	109.11	ug/L		92
39) di-isopropyl ether	8.99	45	442912	108.55	ug/L	#	75
40) 2-butanone	9.78	72	19839	99.45	ug/L	#	33
41) 1,1-dichloroethane	8.99	63	249573	112.40	ug/L		98
42) chloroprene	9.11	53	214548	111.49	ug/L		97
43) acrylonitrile	8.30	53	300862	615.45	ug/L		96
44) vinyl acetate	8.99	86	27203	101.39	ug/L		74
45) ethyl tert-butyl ether	9.50	59	500175	108.44	ug/L		97
46) ethyl acetate	9.80	45	25876	101.11	ug/L		80
47) 2,2-dichloropropane	9.80	77	228477	104.11	ug/L		100
48) cis-1,2-dichloroethene	9.80	96	153794	112.37	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84628.D
Acq On : 20 Jun 2012 4:01 pm
Operator : tarar1
Sample : ic3949-100
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 08:19:09 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
49) propionitrile	9.87	54	247139	1666.57 ug/L		95
50) methylacrylate	9.88	55	176806	168.27 ug/L		95
51) bromochloromethane	10.13	128	85971	119.90 ug/L		93
52) tetrahydrofuran	10.19	42	58779	106.63 ug/L		98
53) chloroform	10.20	83	275922	105.24 ug/L		97
54) t-butyl formate	10.23	59	170529	103.82 ug/L	#	99
57) freon 113	7.08	151	130441	138.59 ug/L		89
58) methacrylonitrile	10.07	41	108460	106.91 ug/L		94
59) 1,1,1-trichloroethane	10.46	97	261871	113.63 ug/L		99
60) Cyclohexane	10.54	84	183032	112.27 ug/L		89
61) tert amyl alcohol	10.82	59	107078	624.91 ug/L		98
62) iso-octane	10.94	57	393045	102.76 ug/L		98
64) tert-amyl ethyl ether	11.86	59	370644	97.66 ug/L		99
65) epichlorohydrin	12.64	57	96651	566.97 ug/L		96
66) n-butyl alcohol	11.48	56	246952	6080.59 ug/L		98
67) carbon tetrachloride	10.68	117	249480	104.24 ug/L		97
68) 1,1-dichloropropene	10.66	75	198248	107.33 ug/L		96
69) hexane	8.71	57	166822	108.45 ug/L		97
70) benzene	10.93	78	502552	102.58 ug/L		99
71) tert-amyl methyl ether	10.98	73	440489	94.94 ug/L		98
72) heptane	11.12	57	86866	104.31 ug/L		98
73) isopropyl acetate	10.87	43	316327	41.05 ug/L		99
74) 1,2-dichloroethane	10.95	62	239960	100.59 ug/L		98
76) trichloroethene	11.69	95	152687	108.25 ug/L		98
77) 2-nitropropane	12.88	46	7909	108.35 ug/L	#	88
78) 2-chloroethyl vinyl ether	12.51	63	459409	546.84 ug/L		100
79) methyl methacrylate	11.97	69	108611	126.78 ug/L		97
80) 1,2-dichloropropane	11.95	63	130468	104.21 ug/L		94
81) dibromomethane	12.12	93	105443	109.70 ug/L		91
82) methylcyclohexane	11.91	83	222548	105.77 ug/L		98
83) bromodichloromethane	12.26	83	233643	105.61 ug/L		100
84) cis-1,3-dichloropropene	12.74	75	259398	111.12 ug/L		98
86) 4-methyl-2-pentanone	12.84	58	67549	124.02 ug/L		93
87) toluene	13.13	92	347297	106.00 ug/L		97
88) 3-methyl-1-butanol	12.88	55	164397	2074.33 ug/L		91
89) trans-1,3-dichloropropene	13.34	75	258511	107.28 ug/L		99
90) ethyl methacrylate	13.33	69	201751	114.17 ug/L		96
91) 1,1,2-trichloroethane	13.57	83	115371	111.11 ug/L		94
92) 2-hexanone	13.75	58	59679	115.15 ug/L		98
94) tetrachloroethene	13.76	164	149749	98.59 ug/L		99
95) 3,3-dimethyl-1-butanol	13.94	57	174554	932.00 ug/L		99
96) 1,3-dichloropropane	13.76	76	227507	103.58 ug/L		98
97) butyl acetate	13.83	56	97885	97.84 ug/L		96
98) dibromochloromethane	14.05	129	207347	104.42 ug/L		98
99) 1,2-dibromoethane	14.20	107	167998	107.08 ug/L		96
101) chlorobenzene	14.70	112	428220	103.80 ug/L		98
102) 1,1,1,2-tetrachloroethane	14.76	131	178835	100.00 ug/L		97
103) ethylbenzene	14.76	91	658634	99.76 ug/L		98
104) m,p-xylene	14.87	106	534483	198.17 ug/L		99
105) o-xylene	15.32	106	286739	103.60 ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84628.D
Acq On : 20 Jun 2012 4:01 pm
Operator : tarar1
Sample : ic3949-100
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 08:19:09 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

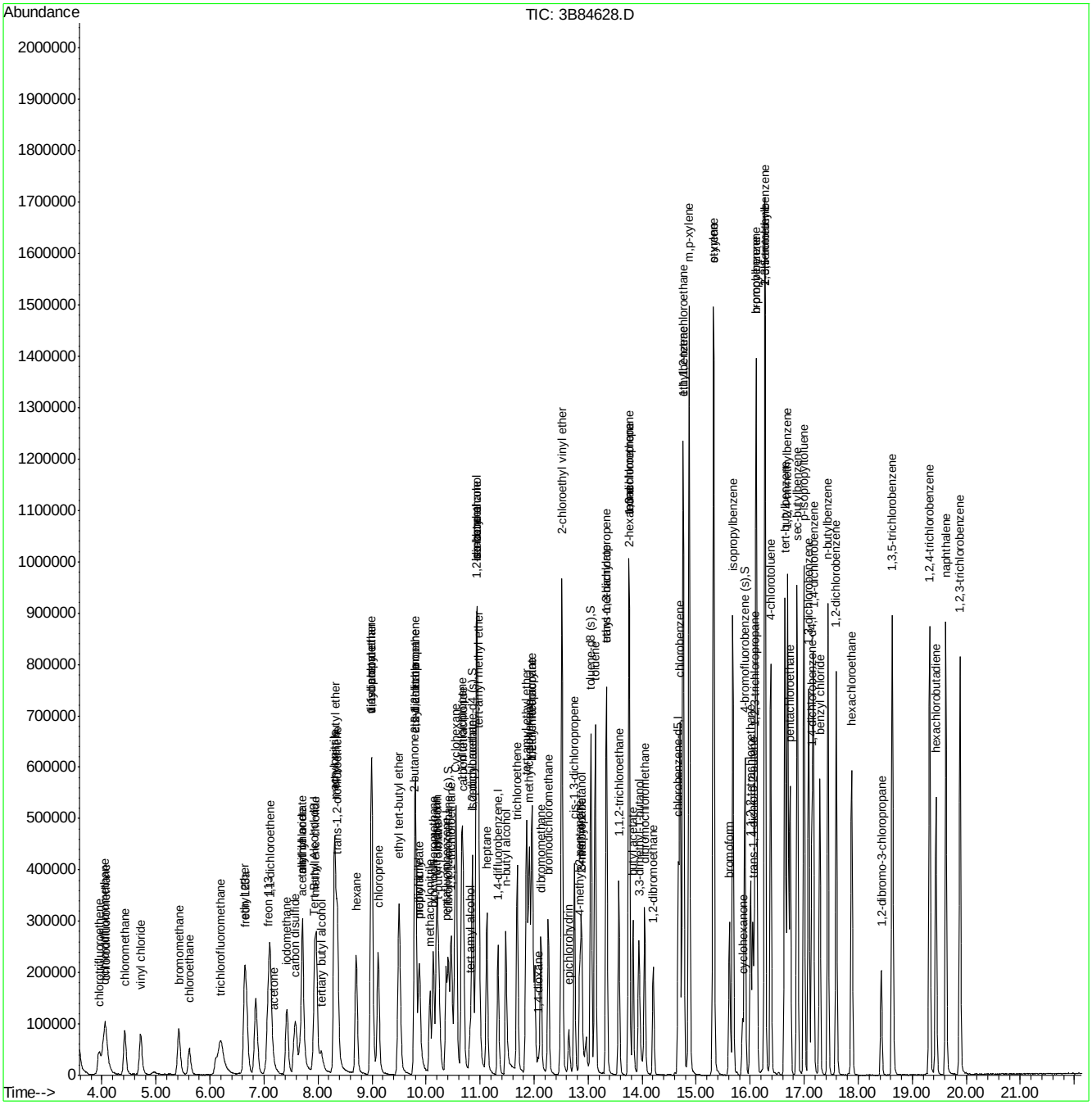
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) styrene	15.33	104	462386	104.13	ug/L	97
108) bromoform	15.61	173	174391	108.37	ug/L	96
110) isopropylbenzene	15.68	105	726242	107.22	ug/L	98
112) cyclohexanone	15.86	55	63772	1584.47	ug/L	98
113) bromobenzene	16.11	156	204112	103.67	ug/L	92
114) 1,1,2,2-tetrachloroethane	16.01	83	204515	106.89	ug/L	98
115) trans-1,4-dichloro-2-buten	16.04	53	69394	119.14	ug/L	94
116) 1,2,3-trichloropropane	16.09	110	64431	104.50	ug/L	95
117) n-propylbenzene	16.11	91	745013	101.75	ug/L	99
119) 2-chlorotoluene	16.27	126	179952	105.41	ug/L	95
120) 4-chlorotoluene	16.38	91	508638	103.53	ug/L	99
121) 1,3,5-trimethylbenzene	16.27	105	615171	106.72	ug/L	99
122) tert-butylbenzene	16.64	119	582668	113.24	ug/L	98
123) pentachloroethane	16.74	167	150919	105.32	ug/L	96
124) 1,2,4-trimethylbenzene	16.69	105	620140	106.10	ug/L	98
125) sec-butylbenzene	16.87	105	774326	109.42	ug/L	99
126) 1,3-dichlorobenzene	17.08	146	379389	101.75	ug/L	98
127) p-isopropyltoluene	17.00	119	683885	108.95	ug/L	98
128) 1,4-dichlorobenzene	17.17	146	385957	103.61	ug/L	98
129) benzyl chloride	17.29	91	477333	92.18	ug/L	98
130) 1,2-dichlorobenzene	17.59	146	397360	107.10	ug/L	99
132) n-butylbenzene	17.44	92	323189	114.71	ug/L	98
134) 1,2-dibromo-3-chloropropan	18.42	75	62584	113.49	ug/L	97
135) 1,3,5-trichlorobenzene	18.63	180	369316	109.89	ug/L	100
136) 1,2,4-trichlorobenzene	19.32	180	362515	109.78	ug/L	98
137) hexachlorobutadiene	19.44	225	158576	101.90	ug/L	96
138) naphthalene	19.62	128	839797	110.91	ug/L	99
139) 1,2,3-trichlorobenzene	19.88	180	337595	90.37	ug/L	100
140) hexachloroethane	17.88	201	157597	119.44	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84628.D
Acq On : 20 Jun 2012 4:01 pm
Operator : tarar1
Sample : ic3949-100
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 08:19:09 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84629.D
Acq On : 20 Jun 2012 4:31 pm
Operator : tarar1
Sample : ic3949-200
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 08:21:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.94	65	102167	500.00	ug/L	0.01
5) pentafluorobenzene	10.37	168	198897	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.33	114	270074	50.00	ug/L	0.00
93) chlorobenzene-d5	14.67	117	259636	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	17.14	152	147936	50.00	ug/L	0.00
System Monitoring Compounds						
55) dibromofluoromethane (s)	10.41	113	335682	232.66	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 465.32%#			
56) 1,2-dichloroethane-d4 (s)	10.86	65	438687	210.07	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 420.14%#			
85) toluene-d8 (s)	13.05	98	1139659	217.58	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 435.16%#			
111) 4-bromofluorobenzene (s)	15.90	95	463005	214.06	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 428.12%#			
Target Compounds						Qvalue
3) tertiary butyl alcohol	8.07	59	231680	1141.67	ug/L	100
4) 1,4-dioxane	12.08	88	92124	6614.69	ug/L	94
10) chlorotrifluoroethene	3.95	116	151624	251.11	ug/L	97
11) chlorodifluoromethane	4.07	51	289317	218.52	ug/L	97
12) dichlorodifluoromethane	4.04	85	444467	215.24	ug/L	99
15) chloromethane	4.44	50	365803	243.09	ug/L	100
16) vinyl chloride	4.74	62	360740	205.91	ug/L	96
18) bromomethane	5.41	94	244782	220.68	ug/L	98
19) chloroethane	5.60	64	175108	229.48	ug/L	89
21) trichlorofluoromethane	6.18	101	556231	282.89	ug/L	88
23) ethyl ether	6.64	74	166586	233.34	ug/L	89
26) freon 123a	6.67	117	290316	225.28	ug/L	98
28) 1,1-dichloroethene	7.13	96	263494	246.52	ug/L	99
29) acetone	7.19	43	125460	132.71	ug/L	96
30) allyl chloride	7.59	76	1053849	924.24	ug/L #	1
31) acetonitrile	7.71	40	262824	2471.14	ug/L #	91
32) iodomethane	7.43	142	604261	247.96	ug/L	99
33) iso-butyl alcohol	10.93	74	96337	1417.83	ug/L #	54
34) carbon disulfide	7.59	76	1052039	284.32	ug/L	95
35) methylene chloride	7.94	84	310739	159.08	ug/L	98
36) methyl acetate	7.71	74	62164	205.47	ug/L #	62
37) methyl tert butyl ether	8.32	73	1018942	225.77	ug/L	100
38) trans-1,2-dichloroethene	8.36	96	280291	225.51	ug/L	95
39) di-isopropyl ether	8.99	45	956217	231.12	ug/L #	75
40) 2-butanone	9.78	72	45058	219.08	ug/L #	89
41) 1,1-dichloroethane	8.99	63	548085	243.45	ug/L	99
42) chloroprene	9.11	53	452318	231.81	ug/L	96
43) acrylonitrile	8.31	53	649826	1310.98	ug/L	95
44) vinyl acetate	8.99	86	59658	215.79	ug/L	83
45) ethyl tert-butyl ether	9.51	59	1069547	228.69	ug/L	97
46) ethyl acetate	9.80	45	56981	216.85	ug/L	83
47) 2,2-dichloropropane	9.80	77	466463	209.62	ug/L	99
48) cis-1,2-dichloroethene	9.80	96	327126	235.73	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84629.D
Acq On : 20 Jun 2012 4:31 pm
Operator : tarar1
Sample : ic3949-200
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 08:21:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
49) propionitrile	9.87	54	514687	3422.94 ug/L		88
50) methylacrylate	9.88	55	392758	368.65 ug/L		97
51) bromochloromethane	10.14	128	186629	256.70 ug/L		97
52) tetrahydrofuran	10.19	42	127922	228.86 ug/L		99
53) chloroform	10.20	83	584567	219.89 ug/L		99
54) t-butyl formate	10.24	59	360494	216.45 ug/L	#	99
57) freon 113	7.08	151	268578	281.43 ug/L		93
58) methacrylonitrile	10.07	41	234449	227.91 ug/L		96
59) 1,1,1-trichloroethane	10.47	97	554527	237.29 ug/L		98
60) Cyclohexane	10.55	84	393949	238.30 ug/L		89
61) tert amyl alcohol	10.83	59	243516	1401.59 ug/L		98
62) iso-octane	10.94	57	785151	202.45 ug/L		98
64) tert-amyl ethyl ether	11.86	59	814579	208.19 ug/L		99
65) epichlorohydrin	12.64	57	212587	1209.58 ug/L		98
66) n-butyl alcohol	11.48	56	558087	13328.49 ug/L		99
67) carbon tetrachloride	10.68	117	521306	211.26 ug/L		98
68) 1,1-dichloropropene	10.66	75	418359	219.70 ug/L		97
69) hexane	8.71	57	335119	211.31 ug/L		96
70) benzene	10.93	78	1090500	215.90 ug/L		98
71) tert-amyl methyl ether	10.98	73	947841	198.14 ug/L		100
72) heptane	11.13	57	179347	208.88 ug/L		98
73) isopropyl acetate	10.87	43	693588	87.31 ug/L		99
74) 1,2-dichloroethane	10.95	62	496708	201.97 ug/L		98
76) trichloroethene	11.69	95	327478	225.20 ug/L		98
77) 2-nitropropane	12.88	46	18047	234.61 ug/L	#	56
78) 2-chloroethyl vinyl ether	12.52	63	1022294	1180.27 ug/L		98
79) methyl methacrylate	11.97	69	237747	269.19 ug/L		96
80) 1,2-dichloropropane	11.96	63	283232	219.43 ug/L		94
81) dibromomethane	12.13	93	227885	229.95 ug/L		100
82) methylcyclohexane	11.91	83	461682	212.82 ug/L		97
83) bromodichloromethane	12.27	83	505469	221.61 ug/L		100
84) cis-1,3-dichloropropene	12.75	75	569038	236.44 ug/L		98
86) 4-methyl-2-pentanone	12.85	58	149818	266.81 ug/L		87
87) toluene	13.13	92	766071	226.80 ug/L		96
88) 3-methyl-1-butanol	12.88	55	366090	4480.41 ug/L		92
89) trans-1,3-dichloropropene	13.34	75	564176	227.09 ug/L		96
90) ethyl methacrylate	13.33	69	449263	246.59 ug/L		99
91) 1,1,2-trichloroethane	13.57	83	255119	238.31 ug/L		97
92) 2-hexanone	13.75	58	136727	255.89 ug/L		98
94) tetrachloroethene	13.76	164	320889	201.78 ug/L		98
95) 3,3-dimethyl-1-butanol	13.94	57	408444	2082.95 ug/L		98
96) 1,3-dichloropropane	13.76	76	485918	211.30 ug/L		93
97) butyl acetate	13.83	56	220439	210.45 ug/L		93
98) dibromochloromethane	14.05	129	454147	218.46 ug/L		97
99) 1,2-dibromoethane	14.20	107	367917	223.99 ug/L		96
101) chlorobenzene	14.70	112	950264	220.02 ug/L		98
102) 1,1,1,2-tetrachloroethane	14.76	131	376442	201.06 ug/L		97
103) ethylbenzene	14.76	91	1408901	203.83 ug/L		99
104) m,p-xylene	14.87	106	1172135	415.09 ug/L		98
105) o-xylene	15.32	106	631207	217.83 ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84629.D
Acq On : 20 Jun 2012 4:31 pm
Operator : tarar1
Sample : ic3949-200
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 08:21:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

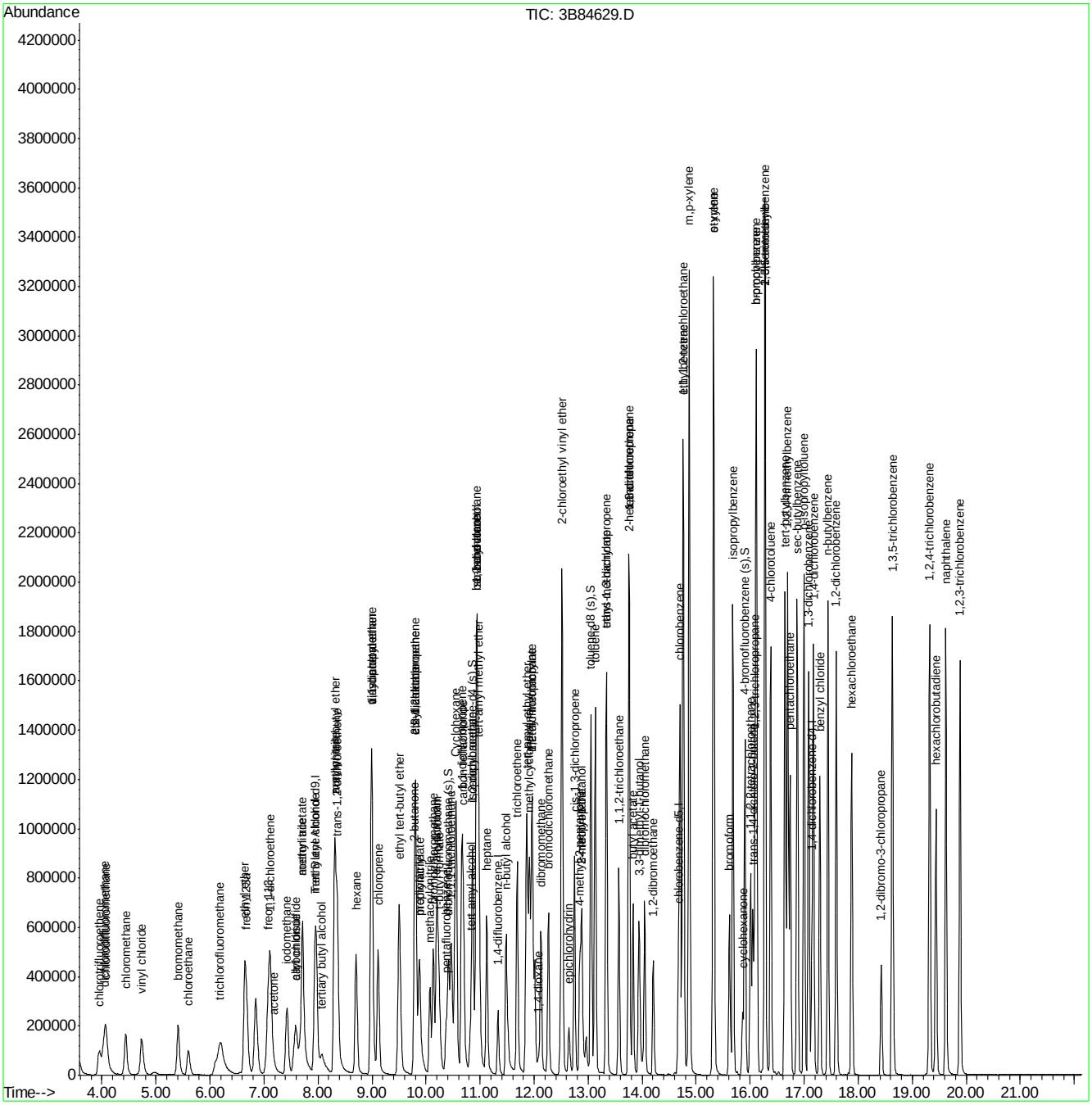
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) styrene	15.33	104	1008216	216.86	ug/L	96
108) bromoform	15.61	173	384130	227.99	ug/L	93
110) isopropylbenzene	15.68	105	1544671	219.25	ug/L	99
112) cyclohexanone	15.86	55	136046	3249.59	ug/L	96
113) bromobenzene	16.11	156	440255	214.98	ug/L	89
114) 1,1,2,2-tetrachloroethane	16.01	83	446285	224.23	ug/L	99
115) trans-1,4-dichloro-2-buten	16.05	53	150126	247.78	ug/L	95
116) 1,2,3-trichloropropane	16.09	110	136709	213.15	ug/L	98
117) n-propylbenzene	16.12	91	1598598	209.90	ug/L	98
119) 2-chlorotoluene	16.28	126	391263	220.33	ug/L	87
120) 4-chlorotoluene	16.38	91	1124654	220.08	ug/L	98
121) 1,3,5-trimethylbenzene	16.27	105	1310303	218.53	ug/L	100
122) tert-butylbenzene	16.64	119	1225683	229.00	ug/L	97
123) pentachloroethane	16.74	167	330535	221.76	ug/L	98
124) 1,2,4-trimethylbenzene	16.69	105	1307863	215.12	ug/L	98
125) sec-butylbenzene	16.87	105	1639425	222.72	ug/L	100
126) 1,3-dichlorobenzene	17.08	146	830974	214.24	ug/L	98
127) p-isopropyltoluene	17.00	119	1441107	220.71	ug/L	98
128) 1,4-dichlorobenzene	17.17	146	853031	220.14	ug/L	98
129) benzyl chloride	17.29	91	1016618	188.73	ug/L	98
130) 1,2-dichlorobenzene	17.59	146	860283	222.90	ug/L	97
132) n-butylbenzene	17.44	92	684754	233.65	ug/L	99
134) 1,2-dibromo-3-chloropropan	18.42	75	136323	237.66	ug/L	98
135) 1,3,5-trichlorobenzene	18.63	180	782911	223.95	ug/L	99
136) 1,2,4-trichlorobenzene	19.32	180	761751	221.78	ug/L	98
137) hexachlorobutadiene	19.44	225	320969	198.28	ug/L	99
138) naphthalene	19.62	128	1771559	224.92	ug/L	99
139) 1,2,3-trichlorobenzene	19.88	180	705923	158.34	ug/L	97
140) hexachloroethane	17.88	201	339292	247.21	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84629.D
Acq On : 20 Jun 2012 4:31 pm
Operator : tarar1
Sample : ic3949-200
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 08:21:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84631A.D
Acq On : 20 Jun 2012 6:32 pm
Operator : tarar1
Sample : ic3949-0.5
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 22 12:43:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.93	65	96957	500.00	ug/L		0.00
5) pentafluorobenzene	10.37	168	214911	50.00	ug/L		0.00
63) 1,4-difluorobenzene	11.33	114	261084	50.00	ug/L		0.00
93) chlorobenzene-d5	14.67	117	243826	50.00	ug/L		0.00
109) 1,4-dichlorobenzene-d4	17.14	152	156627	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.43	113	634	0.41	ug/L		0.01
Spiked Amount 50.000	Range 81 - 121		Recovery = 0.82%#				
56) 1,2-dichloroethane-d4 (s)	10.88	65	674	0.30	ug/L		0.02
Spiked Amount 50.000	Range 74 - 127		Recovery = 0.60%#				
85) toluene-d8 (s)	13.07	98	2073	0.41	ug/L		0.02
Spiked Amount 50.000	Range 80 - 122		Recovery = 0.82%#				
111) 4-bromofluorobenzene (s)	15.91	95	1279	0.56	ug/L		0.01
Spiked Amount 50.000	Range 78 - 116		Recovery = 1.12%#				
Target Compounds							Qvalue
10) chlorotrifluoroethene	3.96	116	152997	234.51	ug/L		97
26) freon 123a	6.67	117	286931	206.06	ug/L		99
27) acrolein	6.92	56	648743	2077.22	ug/L		92
29) acetone	7.21	43	4791	4.69	ug/L		86
32) iodomethane	7.42	142	1110	0.42	ug/L	#	40
33) iso-butyl alcohol	10.81	74	4804	65.43	ug/L	#	1
34) carbon disulfide	7.55	76	1674	0.42	ug/L		64
35) methylene chloride	7.94	84	8506	4.03	ug/L		96
37) methyl tert butyl ether	8.31	73	2278	0.47	ug/L		57
38) trans-1,2-dichloroethene	8.37	96	542	0.40	ug/L	#	56
39) di-isopropyl ether	9.02	45	1875	0.42	ug/L	#	45
41) 1,1-dichloroethane	9.01	63	1102	0.45	ug/L	#	51
43) acrylonitrile	8.39	53	729	1.36	ug/L	#	67
45) ethyl tert-butyl ether	9.51	59	2195	0.43	ug/L		96
47) 2,2-dichloropropane	9.80	77	762	0.32	ug/L	#	30
48) cis-1,2-dichloroethene	9.81	96	549	0.37	ug/L	#	35
53) chloroform	10.21	83	1374	0.48	ug/L		88
54) t-butyl formate	10.25	59	707	0.39	ug/L	#	23
58) methacrylonitrile	10.24	41	684	0.62	ug/L	#	26
59) 1,1,1-trichloroethane	10.47	97	858	0.34	ug/L	#	37
60) Cyclohexane	10.57	84	738	0.41	ug/L	#	60
61) tert amyl alcohol	10.82	59	174812	931.18	ug/L		79
62) iso-octane	10.93	57	1737	0.41	ug/L	#	34
64) tert-amyl ethyl ether	11.86	59	795574	210.33	ug/L		99
68) 1,1-dichloropropene	10.67	75	767	0.42	ug/L		88
69) hexane	8.73	57	574	0.37	ug/L		89
70) benzene	10.93	78	2696	0.55	ug/L		83
71) tert-amyl methyl ether	10.98	73	3720	0.80	ug/L		87
74) 1,2-dichloroethane	10.96	62	952	0.40	ug/L		54
78) 2-chloroethyl vinyl ether	12.54	63	2001	2.39	ug/L		67
79) methyl methacrylate	11.85	69	6464	7.57	ug/L	#	1
80) 1,2-dichloropropane	11.84	63	545	0.44	ug/L	#	1
82) methylcyclohexane	11.92	83	687	0.33	ug/L	#	63

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84631A.D
Acq On : 20 Jun 2012 6:32 pm
Operator : tarar1
Sample : ic3949-0.5
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 22 12:43:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration

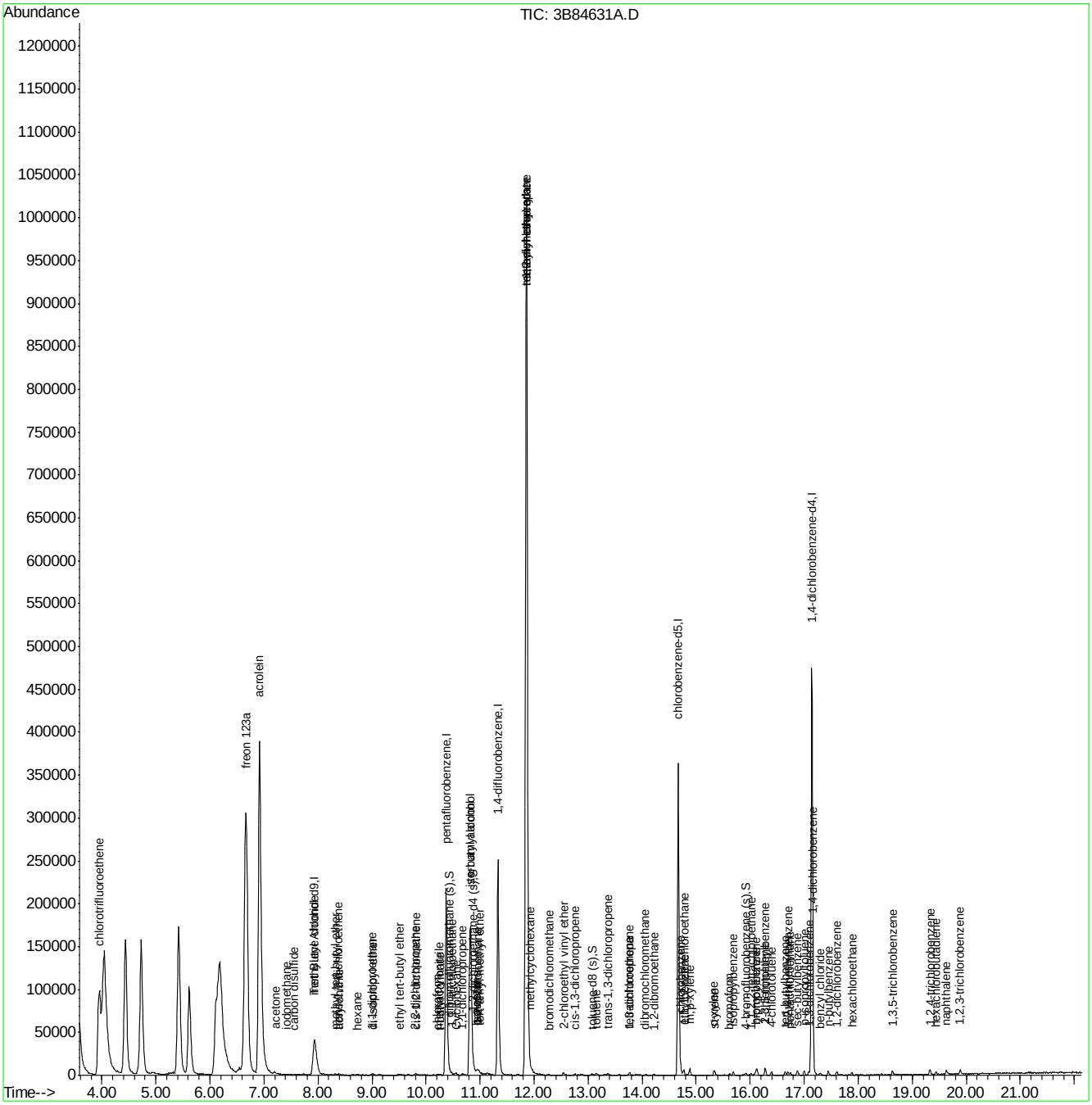
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) bromodichloromethane	12.27	83	966	0.44	ug/L		82
84) cis-1,3-dichloropropene	12.76	75	1120	0.48	ug/L		95
87) toluene	13.14	92	1700	0.52	ug/L		83
89) trans-1,3-dichloropropene	13.37	75	1442	0.60	ug/L	#	70
94) tetrachloroethene	13.75	164	701	0.47	ug/L	#	57
96) 1,3-dichloropropane	13.77	76	1120	0.52	ug/L		93
98) dibromochloromethane	14.05	129	858	0.44	ug/L		98
99) 1,2-dibromoethane	14.21	107	711	0.46	ug/L	#	62
101) chlorobenzene	14.71	112	2368	0.58	ug/L		90
102) 1,1,1,2-tetrachloroethane	14.77	131	752	0.43	ug/L		95
103) ethylbenzene	14.77	91	3337	0.51	ug/L		98
104) m,p-xylene	14.88	106	2676	1.01	ug/L		89
105) o-xylene	15.33	106	1474	0.54	ug/L	#	64
107) styrene	15.35	104	2508	0.57	ug/L		88
108) bromoform	15.61	173	1151	0.73	ug/L	#	38
110) isopropylbenzene	15.68	105	3904	0.52	ug/L		95
113) bromobenzene	16.11	156	1211	0.56	ug/L		93
114) 1,1,2,2-tetrachloroethane	16.01	83	1225	0.58	ug/L		89
117) n-propylbenzene	16.12	91	4619	0.57	ug/L		93
119) 2-chlorotoluene	16.28	126	913	0.49	ug/L	#	61
120) 4-chlorotoluene	16.39	91	2953	0.55	ug/L		84
121) 1,3,5-trimethylbenzene	16.28	105	3669	0.58	ug/L		87
122) tert-butylbenzene	16.65	119	3202	0.57	ug/L		86
123) pentachloroethane	16.74	167	824	0.52	ug/L		83
124) 1,2,4-trimethylbenzene	16.71	105	3493	0.54	ug/L		81
125) sec-butylbenzene	16.88	105	4757	0.61	ug/L		94
126) 1,3-dichlorobenzene	17.09	146	2220	0.54	ug/L		91
127) p-isopropyltoluene	17.00	119	4241	0.61	ug/L		89
128) 1,4-dichlorobenzene	17.17	146	3268	0.80	ug/L		92
129) benzyl chloride	17.29	91	2477	0.43	ug/L	#	55
130) 1,2-dichlorobenzene	17.60	146	2526	0.62	ug/L		90
132) n-butylbenzene	17.45	92	1840	0.59	ug/L	#	62
135) 1,3,5-trichlorobenzene	18.64	180	2159	0.58	ug/L	#	86
136) 1,2,4-trichlorobenzene	19.33	180	2458	0.68	ug/L		83
137) hexachlorobutadiene	19.44	225	1145	0.67	ug/L		93
138) naphthalene	19.64	128	5784	0.69	ug/L		99
139) 1,2,3-trichlorobenzene	19.89	180	1832	0.41	ug/L		80
140) hexachloroethane	17.88	201	585	0.40	ug/L		81

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84631A.D
Acq On : 20 Jun 2012 6:32 pm
Operator : tarar1
Sample : ic3949-0.5
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 22 12:43:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Wed Jun 20 16:23:31 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84636.D
Acq On : 21 Jun 2012 11:48 am
Operator : tarar1
Sample : icv3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 13:15:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Fri Jun 22 13:03:04 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	95967	500.00	ug/L		-0.02
5) pentafluorobenzene	10.37	168	204308	50.00	ug/L		0.00
63) 1,4-difluorobenzene	11.33	114	262440	50.00	ug/L		0.00
93) chlorobenzene-d5	14.67	117	249328	50.00	ug/L		0.00
109) 1,4-dichlorobenzene-d4	17.14	152	149207	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.41	113	77889	52.26	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 104.52%				
56) 1,2-dichloroethane-d4 (s)	10.85	65	106983	49.52	ug/L		0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 99.04%				
85) toluene-d8 (s)	13.05	98	264352	52.35	ug/L		0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 104.70%				
111) 4-bromofluorobenzene (s)	15.90	95	104504	46.85	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 93.70%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	8.06	59	53835	274.32	ug/L		100
4) 1,4-dioxane	12.08	88	17071	1054.76	ug/L		83
10) chlorotrifluoroethene	3.97	116	34546	50.12	ug/L		98
11) chlorodifluoromethane	4.08	51	75255	54.09	ug/L		97
12) dichlorodifluoromethane	4.05	85	110160	50.53	ug/L		97
15) chloromethane	4.42	50	88541	48.61	ug/L		99
16) vinyl chloride	4.71	62	87423	53.78	ug/L		91
18) bromomethane	5.43	94	60770	51.82	ug/L		96
19) chloroethane	5.63	64	42794	52.82	ug/L		97
21) trichlorofluoromethane	6.19	101	133823	48.89	ug/L		91
23) ethyl ether	6.64	74	41185	54.14	ug/L		92
26) freon 123a	6.67	117	69349	51.32	ug/L		97
27) acrolein	6.92	56	164373	550.59	ug/L		95
28) 1,1-dichloroethene	7.11	96	62751	48.00	ug/L		94
29) acetone	7.19	43	37435	67.56	ug/L		88
30) allyl chloride	7.72	76	40767	49.52	ug/L	#	91
31) acetonitrile	7.69	40	66185	579.67	ug/L	#	17
32) iodomethane	7.42	142	145013	56.49	ug/L		100
33) iso-butyl alcohol	10.94	74	24429	509.03	ug/L	#	86
34) carbon disulfide	7.57	76	214148	56.98	ug/L		98
35) methylene chloride	7.93	84	72293	49.96	ug/L		95
36) methyl acetate	7.72	74	12829	43.83	ug/L	#	81
37) methyl tert butyl ether	8.31	73	504604	107.23	ug/L		98
38) trans-1,2-dichloroethene	8.36	96	65949	51.51	ug/L		94
39) di-isopropyl ether	8.99	45	229770	53.59	ug/L		83
40) 2-butanone	9.78	72	11206	53.71	ug/L	#	57
41) 1,1-dichloroethane	8.99	63	134874	56.76	ug/L		97
42) chloroprene	9.11	53	121379	58.55	ug/L		97
43) acrylonitrile	8.31	53	156519	262.75	ug/L		100
44) vinyl acetate	9.00	86	13874	50.10	ug/L		72
45) ethyl tert-butyl ether	9.50	59	252171	51.93	ug/L		97
46) ethyl acetate	9.80	45	12772	47.74	ug/L		88
47) 2,2-dichloropropane	9.80	77	132338	59.73	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84636.D
Acq On : 21 Jun 2012 11:48 am
Operator : tarar1
Sample : icv3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 13:15:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Fri Jun 22 13:03:04 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.80	96	77395	54.09	ug/L		99
49) propionitrile	9.87	54	120943	507.38	ug/L		94
50) methylacrylate	9.88	55	90560	52.08	ug/L		99
51) bromochloromethane	10.13	128	44383	53.13	ug/L		91
52) tetrahydrofuran	10.19	42	31714	53.36	ug/L		93
53) chloroform	10.20	83	148457	53.72	ug/L		99
54) t-butyl formate	10.23	59	95045	56.21	ug/L	#	100
57) freon 113	7.09	151	58080	46.16	ug/L		94
58) methacrylonitrile	10.07	41	55019	51.92	ug/L		94
59) 1,1,1-trichloroethane	10.47	97	133731	53.55	ug/L		92
60) Cyclohexane	10.55	84	92709	53.76	ug/L		87
61) tert amyl alcohol	10.82	59	54165	246.82	ug/L		98
62) iso-octane	10.94	57	178215	45.40	ug/L		99
64) tert-amyl ethyl ether	11.86	59	189088	50.16	ug/L		100
65) epichlorohydrin	12.64	57	51310	288.07	ug/L		97
66) n-butyl alcohol	11.47	56	111910	2221.23	ug/L		96
67) carbon tetrachloride	10.68	117	127516	52.53	ug/L		98
68) 1,1-dichloropropene	10.66	75	98467	53.18	ug/L		95
69) hexane	8.72	57	72004	47.30	ug/L		97
70) benzene	10.93	78	257666	51.30	ug/L		96
71) tert-amyl methyl ether	10.98	73	230876	50.04	ug/L		99
72) heptane	11.13	57	38862	46.00	ug/L		99
73) isopropyl acetate	10.87	43	158031	53.47	ug/L		98
74) 1,2-dichloroethane	10.94	62	126277	53.94	ug/L		97
76) trichloroethene	11.68	95	78008	53.80	ug/L		97
77) 2-nitropropane	12.87	46	3597	48.79	ug/L	#	38
78) 2-chloroethyl vinyl ether	12.51	63	236872	274.42	ug/L		99
79) methyl methacrylate	11.97	69	52789	50.90	ug/L		97
80) 1,2-dichloropropane	11.96	63	67591	53.81	ug/L		93
81) dibromomethane	12.12	93	56739	57.16	ug/L		90
82) methylcyclohexane	11.91	83	99566	48.43	ug/L		97
83) bromodichloromethane	12.26	83	120322	54.04	ug/L		97
84) cis-1,3-dichloropropene	12.74	75	130197	54.13	ug/L		98
86) 4-methyl-2-pentanone	12.84	58	33141	51.61	ug/L		98
87) toluene	13.13	92	174306	51.75	ug/L		99
88) 3-methyl-1-butanol	12.88	55	79773	985.33	ug/L		92
89) trans-1,3-dichloropropene	13.34	75	136883	54.23	ug/L		97
90) ethyl methacrylate	13.33	69	99002	53.42	ug/L		97
91) 1,1,2-trichloroethane	13.57	83	59184	54.82	ug/L		98
92) 2-hexanone	13.75	58	29877	53.69	ug/L		95
94) tetrachloroethene	13.76	164	74610	49.22	ug/L		99
95) 3,3-dimethyl-1-butanol	13.94	57	82409	456.95	ug/L		99
96) 1,3-dichloropropane	13.76	76	114339	51.04	ug/L		96
97) butyl acetate	13.83	56	48798	48.33	ug/L		89
98) dibromochloromethane	14.05	129	104698	52.35	ug/L		98
99) 1,2-dibromoethane	14.21	107	84629	52.99	ug/L		99
101) chlorobenzene	14.70	112	213654	49.82	ug/L		96
102) 1,1,1,2-tetrachloroethane	14.76	131	92523	52.27	ug/L		95
103) ethylbenzene	14.76	91	336757	50.48	ug/L		98
104) m,p-xylene	14.87	106	270259	99.25	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84636.D
Acq On : 21 Jun 2012 11:48 am
Operator : tarar1
Sample : icv3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 13:15:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Fri Jun 22 13:03:04 2012
Response via : Initial Calibration

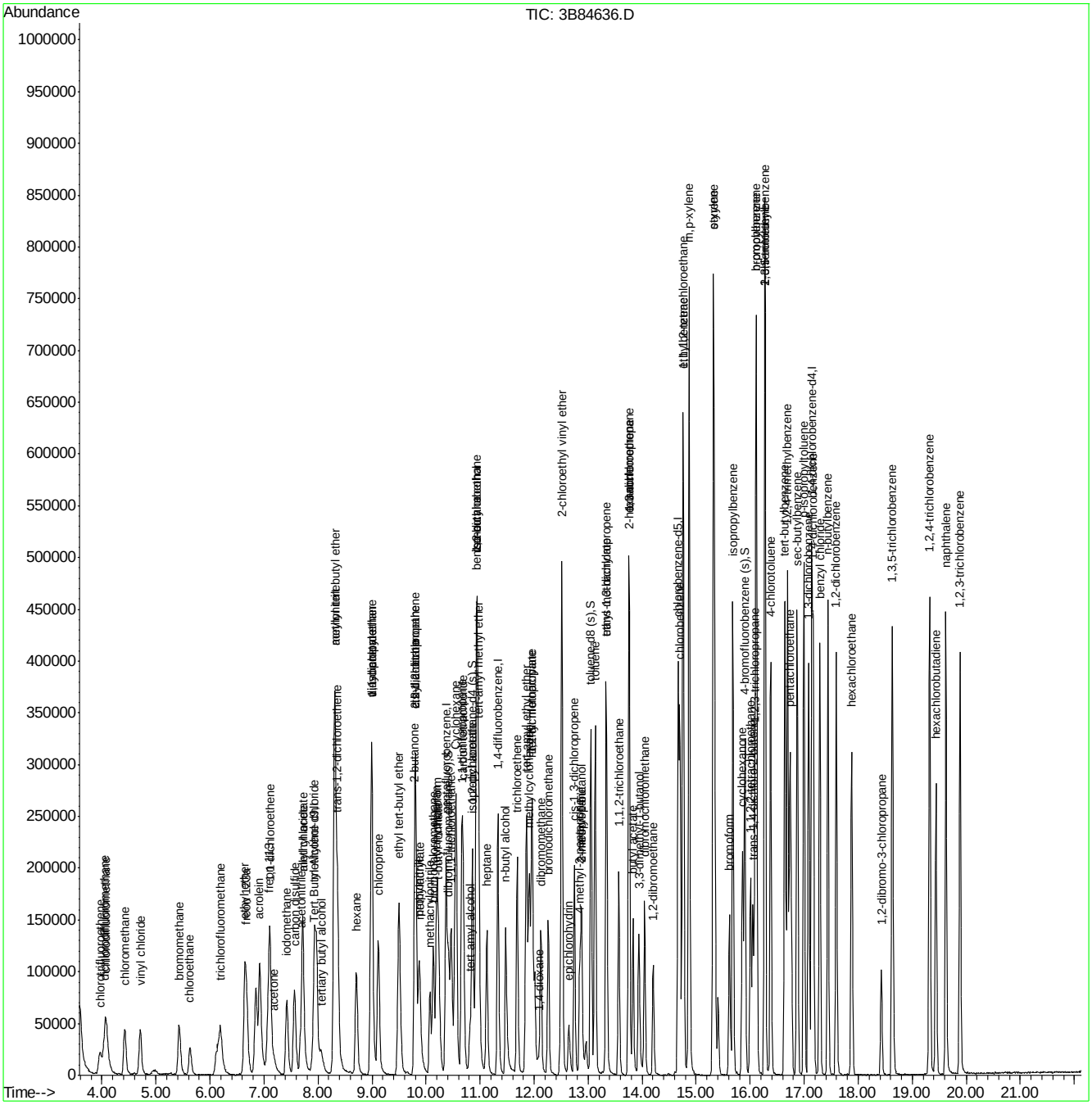
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) o-xylene	15.32	106	147510	51.81	ug/L	96
107) styrene	15.33	104	232879	50.62	ug/L	98
108) bromoform	15.61	173	89257	53.67	ug/L	91
110) isopropylbenzene	15.68	105	366011	50.31	ug/L	99
112) cyclohexanone	15.86	55	113905	2951.03	ug/L	97
113) bromobenzene	16.11	156	104155	49.18	ug/L	96
114) 1,1,2,2-tetrachloroethane	16.00	83	102566	49.17	ug/L	95
115) trans-1,4-dichloro-2-buten	16.05	53	37760	54.54	ug/L	97
116) 1,2,3-trichloropropane	16.09	110	32649	49.78	ug/L	95
117) n-propylbenzene	16.12	91	391644	49.81	ug/L	99
119) 2-chlorotoluene	16.27	126	90340	49.74	ug/L	98
120) 4-chlorotoluene	16.38	91	257932	48.81	ug/L	100
121) 1,3,5-trimethylbenzene	16.27	105	308791	49.33	ug/L	96
122) tert-butylbenzene	16.64	119	284698	50.45	ug/L	97
123) pentachloroethane	16.73	167	79624	51.78	ug/L	98
124) 1,2,4-trimethylbenzene	16.69	105	320164	50.96	ug/L	99
125) sec-butylbenzene	16.87	105	377837	48.58	ug/L	98
126) 1,3-dichlorobenzene	17.08	146	198612	49.83	ug/L	97
127) p-isopropyltoluene	17.00	119	348110	50.50	ug/L	99
128) 1,4-dichlorobenzene	17.17	146	197880	49.78	ug/L	99
129) benzyl chloride	17.29	91	356060	70.08	ug/L	99
130) 1,2-dichlorobenzene	17.59	146	207135	50.83	ug/L	97
132) n-butylbenzene	17.44	92	162256	52.00	ug/L	99
134) 1,2-dibromo-3-chloropropan	18.42	75	31986	52.85	ug/L	97
135) 1,3,5-trichlorobenzene	18.63	180	182147	49.54	ug/L	100
136) 1,2,4-trichlorobenzene	19.32	180	191249	51.98	ug/L	97
137) hexachlorobutadiene	19.44	225	81084	47.82	ug/L	95
138) naphthalene	19.62	128	423760	49.90	ug/L	98
139) 1,2,3-trichlorobenzene	19.88	180	169863	50.38	ug/L	98
140) hexachloroethane	17.88	201	79147	54.26	ug/L	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3B3949\
Data File : 3B84636.D
Acq On : 21 Jun 2012 11:48 am
Operator : tarar1
Sample : icv3949-50
Misc : ms31465,v3b3949,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 13:15:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Fri Jun 22 13:03:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87167.D
Acq On : 7 Sep 2012 12:04 pm
Operator : tarar1
Sample : cc3949-20
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 12:37:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.92	65	115481	500.00	ug/L		-0.02
5) pentafluorobenzene	10.36	168	250210	50.00	ug/L		-0.01
63) 1,4-difluorobenzene	11.32	114	318814	50.00	ug/L		-0.01
93) chlorobenzene-d5	14.66	117	289660	50.00	ug/L		-0.01
109) 1,4-dichlorobenzene-d4	17.14	152	168397	50.00	ug/L		0.00
System Monitoring Compounds							
55) dibromofluoromethane (s)	10.41	113	88697	48.59	ug/L		-0.01
Spiked Amount 50.000	Range 81 - 121		Recovery = 97.18%				
56) 1,2-dichloroethane-d4 (s)	10.84	65	108990	41.19	ug/L		-0.02
Spiked Amount 50.000	Range 74 - 127		Recovery = 82.38%				
85) toluene-d8 (s)	13.05	98	328065	53.48	ug/L		0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 106.96%				
111) 4-bromofluorobenzene (s)	15.89	95	122284	48.57	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 97.14%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	8.05	59	23059	97.64	ug/L		100
4) 1,4-dioxane	12.08	88	9246	520.57	ug/L		88
11) chlorodifluoromethane	4.07	51	26114	15.33	ug/L		98
12) dichlorodifluoromethane	4.06	85	51344	19.23	ug/L		95
15) chloromethane	4.42	50	42151	19.21	ug/L		94
16) vinyl chloride	4.70	62	42132	21.16	ug/L		93
18) bromomethane	5.43	94	30294	21.09	ug/L		95
19) chloroethane	5.63	64	20082	20.24	ug/L		95
21) trichlorofluoromethane	6.18	101	58803	17.54	ug/L		100
23) ethyl ether	6.63	74	19320	20.74	ug/L		95
27) acrolein	6.92	56	64210	175.62	ug/L		99
28) 1,1-dichloroethene	7.11	96	32017	20.32	ug/L	#	80
29) acetone	7.19	43	12647	18.64	ug/L		88
30) allyl chloride	7.71	76	19684	19.53	ug/L	#	72
31) acetonitrile	7.68	40	31517	225.40	ug/L	#	7
32) iodomethane	7.41	142	71085	22.61	ug/L		98
33) iso-butyl alcohol	10.93	74	10239	174.21	ug/L	#	84
34) carbon disulfide	7.57	76	104186	22.64	ug/L		90
35) methylene chloride	7.93	84	34871	19.68	ug/L		91
36) methyl acetate	7.72	74	6465	20.41	ug/L		97
37) methyl tert butyl ether	8.31	73	110253	19.13	ug/L		100
38) trans-1,2-dichloroethene	8.36	96	33110	21.12	ug/L		85
39) di-isopropyl ether	8.99	45	95349	18.16	ug/L		93
40) 2-butanone	9.79	72	4795	22.68	ug/L	#	34
41) 1,1-dichloroethane	8.98	63	57795	19.86	ug/L		96
42) chloroprene	9.10	53	39599	15.60	ug/L		91
43) acrylonitrile	8.30	53	77755	106.58	ug/L		94
44) vinyl acetate	8.99	86	5417	19.89	ug/L		42
45) ethyl tert-butyl ether	9.50	59	104388	17.55	ug/L		95
46) ethyl acetate	9.80	45	5382	19.44	ug/L		80
47) 2,2-dichloropropane	9.79	77	54437	20.06	ug/L		93
48) cis-1,2-dichloroethene	9.79	96	37968	21.67	ug/L		88
49) propionitrile	9.87	54	63070	216.05	ug/L		75

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87167.D
Acq On : 7 Sep 2012 12:04 pm
Operator : tarar1
Sample : cc3949-20
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 12:37:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) methylacrylate	9.88	55	43004	20.19	ug/L		90
51) bromochloromethane	10.13	128	20969	20.50	ug/L		97
52) tetrahydrofuran	10.18	42	13423	18.44	ug/L		95
53) chloroform	10.19	83	63019	18.62	ug/L		99
54) t-butyl formate	10.22	59	34518	16.67	ug/L	#	93
57) freon 113	7.08	151	29686	19.27	ug/L		92
58) methacrylonitrile	10.07	41	21906	16.88	ug/L		98
59) 1,1,1-trichloroethane	10.46	97	56310	18.41	ug/L		96
60) Cyclohexane	10.54	84	47608	22.54	ug/L		97
62) iso-octane	10.93	57	95234	19.81	ug/L		93
65) epichlorohydrin	12.64	57	21528	99.49	ug/L		98
66) n-butyl alcohol	11.47	56	59649	1068.19	ug/L		93
67) carbon tetrachloride	10.67	117	53207	18.04	ug/L		99
68) 1,1-dichloropropene	10.65	75	44610	19.83	ug/L		98
69) hexane	8.70	57	33704	18.23	ug/L		96
70) benzene	10.92	78	122735	20.12	ug/L		97
71) tert-amyl methyl ether	10.97	73	95966	17.12	ug/L		99
72) heptane	11.12	57	19665	19.16	ug/L		97
73) isopropyl acetate	10.87	43	59311	16.52	ug/L		91
74) 1,2-dichloroethane	10.94	62	50119	17.62	ug/L		96
76) trichloroethene	11.68	95	34483	19.58	ug/L		95
77) 2-nitropropane	12.87	46	1725	24.85	ug/L	#	75
78) 2-chloroethyl vinyl ether	12.51	63	112783	107.56	ug/L		98
79) methyl methacrylate	11.97	69	25069	19.90	ug/L	#	60
80) 1,2-dichloropropane	11.95	63	32590	21.36	ug/L		92
81) dibromomethane	12.12	93	25180	20.88	ug/L		98
82) methylcyclohexane	11.91	83	51525	20.63	ug/L		98
83) bromodichloromethane	12.25	83	49767	18.40	ug/L		99
84) cis-1,3-dichloropropene	12.74	75	58969	20.18	ug/L		89
86) 4-methyl-2-pentanone	12.84	58	15294	19.60	ug/L	#	80
87) toluene	13.13	92	82161	20.08	ug/L		98
88) 3-methyl-1-butanol	12.87	55	36695	373.10	ug/L		92
89) trans-1,3-dichloropropene	13.33	75	56338	18.37	ug/L		89
90) ethyl methacrylate	13.33	69	46643	20.72	ug/L		92
91) 1,1,2-trichloroethane	13.56	83	28109	21.43	ug/L		97
92) 2-hexanone	13.75	58	13570	20.07	ug/L		95
94) tetrachloroethene	13.75	164	36629	20.80	ug/L		94
95) 3,3-dimethyl-1-butanol	13.94	57	39093	186.58	ug/L		97
96) 1,3-dichloropropane	13.75	76	54374	20.89	ug/L		90
97) butyl acetate	13.83	56	23183	19.76	ug/L	#	83
98) dibromochloromethane	14.04	129	44901	19.33	ug/L		96
99) 1,2-dibromoethane	14.20	107	39680	21.39	ug/L		99
101) chlorobenzene	14.69	112	99538	19.98	ug/L		97
102) 1,1,1,2-tetrachloroethane	14.76	131	41915	20.38	ug/L		96
103) ethylbenzene	14.75	91	158522	20.45	ug/L		98
104) m,p-xylene	14.86	106	128506	40.62	ug/L		99
105) o-xylene	15.31	106	66668	20.16	ug/L		100
107) styrene	15.32	104	111171	20.80	ug/L		93
108) bromoform	15.61	173	39682	20.54	ug/L		96
110) isopropylbenzene	15.67	105	175877	21.42	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87167.D
Acq On : 7 Sep 2012 12:04 pm
Operator : tarar1
Sample : cc3949-20
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 12:37:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration

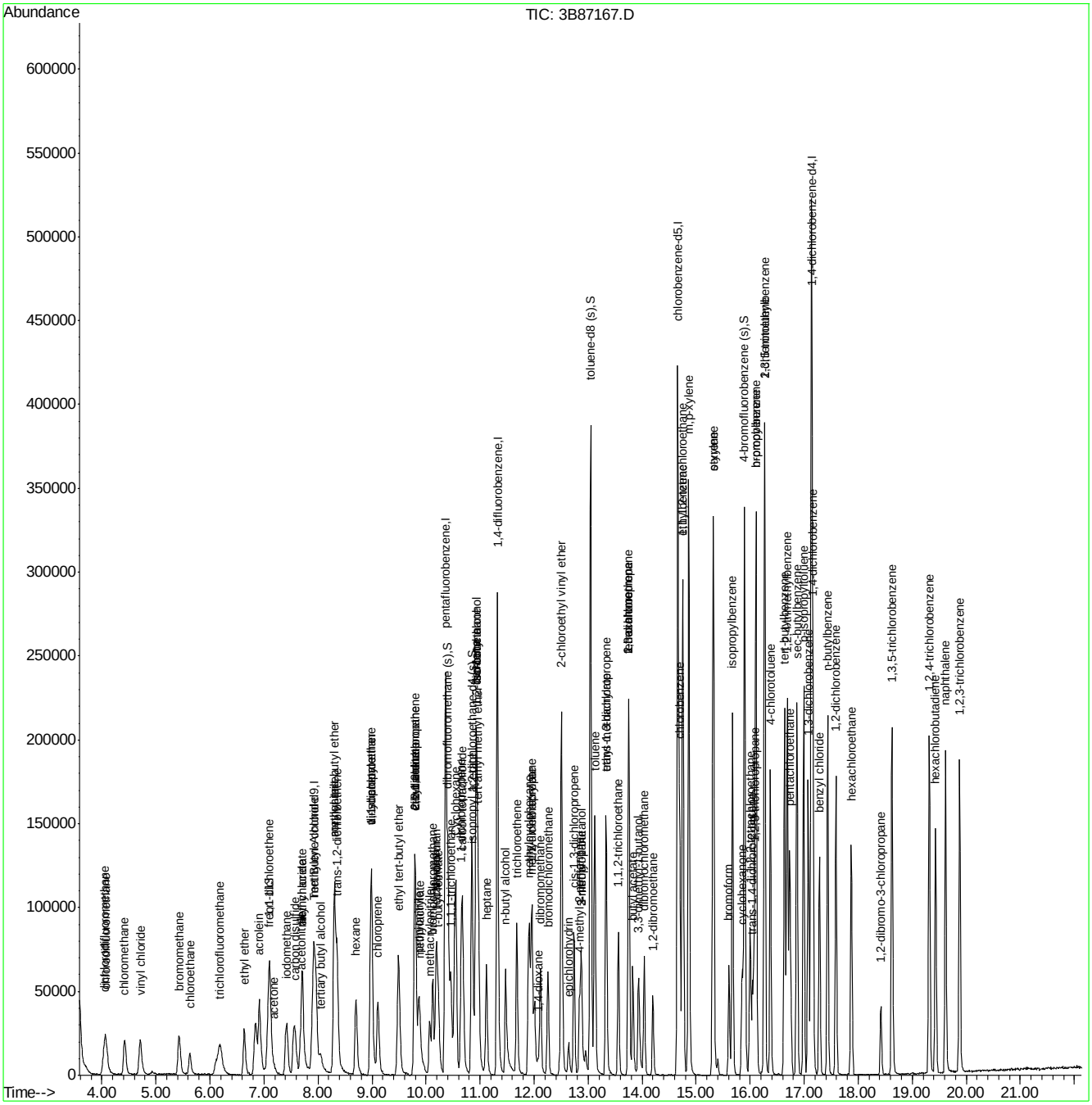
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
112) cyclohexanone	15.85	55	36835	845.56	ug/L	91
113) bromobenzene	16.11	156	50285	21.04	ug/L	90
114) 1,1,2,2-tetrachloroethane	16.00	83	51420	21.84	ug/L	97
115) trans-1,4-dichloro-2-buten	16.04	53	12447	15.93	ug/L	81
116) 1,2,3-trichloropropane	16.07	110	15113	20.42	ug/L	90
117) n-propylbenzene	16.11	91	186544	21.02	ug/L	98
119) 2-chlorotoluene	16.27	126	43271	21.11	ug/L	99
120) 4-chlorotoluene	16.37	91	120752	20.25	ug/L	99
121) 1,3,5-trimethylbenzene	16.26	105	146242	20.70	ug/L	100
122) tert-butylbenzene	16.63	119	136210	21.39	ug/L	99
123) pentachloroethane	16.73	167	36069	20.78	ug/L	97
124) 1,2,4-trimethylbenzene	16.69	105	148765	20.98	ug/L	99
125) sec-butylbenzene	16.86	105	189083	21.54	ug/L	99
126) 1,3-dichlorobenzene	17.07	146	93529	20.79	ug/L	99
127) p-isopropyltoluene	16.99	119	166112	21.35	ug/L	96
128) 1,4-dichlorobenzene	17.16	146	94058	20.97	ug/L	98
129) benzyl chloride	17.28	91	110966	19.35	ug/L	98
130) 1,2-dichlorobenzene	17.59	146	96332	20.95	ug/L	99
132) n-butylbenzene	17.43	92	77835	22.10	ug/L	98
134) 1,2-dibromo-3-chloropropan	18.42	75	12345	18.07	ug/L	84
135) 1,3,5-trichlorobenzene	18.63	180	91516	22.05	ug/L	100
136) 1,2,4-trichlorobenzene	19.31	180	86051	20.72	ug/L	99
137) hexachlorobutadiene	19.43	225	45575	23.82	ug/L	98
138) naphthalene	19.62	128	191314	19.96	ug/L	97
139) 1,2,3-trichlorobenzene	19.88	180	80314	21.11	ug/L	97
140) hexachloroethane	17.87	201	36299	22.05	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3B87167.D
Acq On : 7 Sep 2012 12:04 pm
Operator : tarar1
Sample : cc3949-20
Misc : ms35088,v3b4068,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 12:37:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\M3B3949.M
Quant Title : SW-846 Method 8260B, zb624 60mx0.25mmx1.4um
QLast Update : Mon Aug 20 15:32:38 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176816.D
Acq On : 30 Aug 2012 10:45 am
Operator : SCOTTM
Sample : IC7140-10
Misc : MS34716,VI7140,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 31 08:10:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	78404	50.00	ug/L		0.00
5) pentafluorobenzene	9.383	168	285031	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.299	114	400480	50.00	ug/L		0.00
75) chlorobenzene-d5	13.442	117	311265	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.743	152	146327	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.451	113	15500	9.62	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 19.24%#				
47) 1,2-dichloroethane-d4...	9.875	65	14996	9.42	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 18.84%#				
76) toluene-d8 (s)	11.936	98	51438	9.54	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 19.08%#				
91) 4-bromofluorobenzene (s)	14.587	95	18224	9.66	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 19.32%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.328	59	5687	47.17	ug/L		93
3) iso-butyl alcohol	9.943	74	4501	107.29	ug/L	#	92
4) 1,4-dioxane	11.026	88	2556	244.47	ug/L		98
6) chlorodifluoromethane	4.017	51	17692	9.74	ug/L		99
7) dichlorodifluoromethane	3.991	85	24080	10.18	ug/L		98
8) chloromethane	4.326	50	19191	9.56	ug/L		99
9) vinyl chloride	4.556	62	21668	10.06	ug/L		98
10) bromomethane	5.178	94	8438	9.83	ug/L		95
11) chloroethane	5.346	64	8623	9.98	ug/L		99
12) trichlorofluoromethane	5.764	101	23604	10.05	ug/L		97
13) ethyl ether	6.156	74	6754	9.01	ug/L		97
14) acrolein	6.423	56	17019	89.30	ug/L		98
15) freon 113	6.528	151	12448	9.66	ug/L		99
16) 1,1-dichloroethene	6.575	61	22141	9.92	ug/L		99
17) acetone	6.632	58	1314	3.29	ug/L	#	76
18) iodomethane	6.857	142	26172	9.94	ug/L	#	99
19) carbon disulfide	6.972	TIC	64318	9.59	ug/L		98
20) methyl acetate	7.061	74	1522	9.24	ug/L	#	90
21) allyl chloride	7.087	76	8035	9.67	ug/L		95
22) acetonitrile	7.082	41	32477	93.28	ug/L		96
23) methylene chloride	7.276	84	14806	9.36	ug/L		93
24) methyl tert butyl ether	7.574	73	33960	8.67	ug/L		98
25) acrylonitrile	7.595	53	14253	44.47	ug/L		99
26) trans-1,2-dichloroethene	7.626	96	15360	9.22	ug/L		97
27) hexane	7.898	57	16998	9.55	ug/L		98
28) di-isopropyl ether	8.133	45	43899	9.67	ug/L		94
29) vinyl acetate	8.175	65	8200	9.62	ug/L	#	100
30) 1,1-dichloroethane	8.180	63	25956	9.91	ug/L		99
31) chloroprene	8.274	53	19083	10.07	ug/L		100
32) ethyl tert-butyl ether	8.588	59	41655	9.62	ug/L		98
33) 2-butanone	8.860	72	1138	8.99	ug/L		88
34) ethyl acetate	8.871	45	1299	8.82	ug/L	#	13
35) 2,2-dichloropropane	8.897	77	23995	9.63	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176816.D
Acq On : 30 Aug 2012 10:45 am
Operator : SCOTTM
Sample : IC7140-10
Misc : MS34716,VI7140,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 31 08:10:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.897	96	15974	9.10	ug/L		98
37) methacrylonitrile	9.143	67	3439	8.87	ug/L	#	92
38) propionitrile	8.975	54	11139	8.84	ug/L		93
39) bromochloromethane	9.211	128	6969	9.75	ug/L		99
40) tetrahydrofuran	9.242	42	3245	9.17	ug/L		92
41) chloroform	9.258	83	25865	9.44	ug/L		99
42) tert-Butyl Formate	9.279	59	9713	9.37	ug/L		99
44) 1,1,1-trichloroethane	9.504	97	23472	9.77	ug/L		98
45) cyclohexane	9.566	84	22344	10.02	ug/L		85
48) carbon tetrachloride	9.697	117	20473	9.91	ug/L		96
49) 1,1-dichloropropene	9.676	75	19840	9.69	ug/L		95
50) isopropyl acetate	9.844	61	3796	9.04	ug/L		98
51) benzene	9.938	78	57731	9.84	ug/L		99
52) 2,2,4-trimethylpentane	9.912	57	52442	10.02	ug/L		100
53) tert-amyl methyl ether	9.953	73	36044	9.54	ug/L		100
54) 1,2-dichloroethane	9.959	62	16696	9.63	ug/L		97
55) heptane	10.079	57	10480	10.25	ug/L		99
56) n-butyl alcohol	10.419	56	12698	439.47	ug/L		97
57) trichloroethene	10.644	95	14764	9.82	ug/L		99
58) ethyl acrylate	10.853	55	19878	9.70	ug/L	#	100
59) methyl methacrylate	10.900	69	5966	8.88	ug/L		93
60) 1,2-dichloropropane	10.916	63	13409	9.76	ug/L		99
61) methylcyclohexane	10.853	83	24456	10.14	ug/L		99
62) dibromomethane	11.078	93	7427	9.80	ug/L		98
63) bromodichloromethane	11.203	83	17647	9.54	ug/L		98
64) 2-nitropropane	11.428	41	3462	8.84	ug/L	#	99
65) 2-chloroethyl vinyl ether	11.428	63	22590	47.03	ug/L		99
66) epichlorohydrin	11.570	57	4033	43.40	ug/L		98
67) cis-1,3-dichloropropene	11.653	75	21317	9.67	ug/L		99
68) 4-methyl-2-pentanone	11.742	58	3200	8.70	ug/L		95
69) 3-methyl-1-butanol	11.758	70	4438	189.30	ug/L		92
70) toluene	12.009	91	59273	9.87	ug/L		100
71) trans-1,3-dichloropropene	12.213	75	18041	9.55	ug/L		98
72) ethyl methacrylate	12.192	69	11556	9.11	ug/L		98
73) 1,1,2-trichloroethane	12.427	83	8263	9.70	ug/L		98
74) 2-hexanone	12.595	58	2877	8.89	ug/L		95
77) tetrachloroethene	12.589	166	15986	10.00	ug/L		98
78) 1,3-dichloropropane	12.610	76	15633	9.54	ug/L		97
79) butyl acetate	12.657	56	5623	9.07	ug/L		90
80) 3,3-Dimethyl-1-Butanol	12.757	57	7602	85.05	ug/L		99
81) dibromochloromethane	12.877	129	11936	9.37	ug/L		99
82) 1,2-dibromoethane	13.029	107	9635	9.45	ug/L		100
83) chlorobenzene	13.473	112	36205	9.80	ug/L		95
84) 1,1,1,2-tetrachloroethane	13.536	131	13159	9.99	ug/L		99
85) ethylbenzene	13.520	91	63486	9.95	ug/L		99
86) m,p-xylene	13.625	106	48801	20.25	ug/L		98
87) o-xylene	14.043	106	23575	9.98	ug/L		99
88) styrene	14.054	104	36754	9.85	ug/L		98
89) bromoform	14.326	173	6731	8.92	ug/L		99
92) isopropylbenzene	14.378	105	61581	10.20	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176816.D
Acq On : 30 Aug 2012 10:45 am
Operator : SCOTTM
Sample : IC7140-10
Misc : MS34716,VI7140,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 31 08:10:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

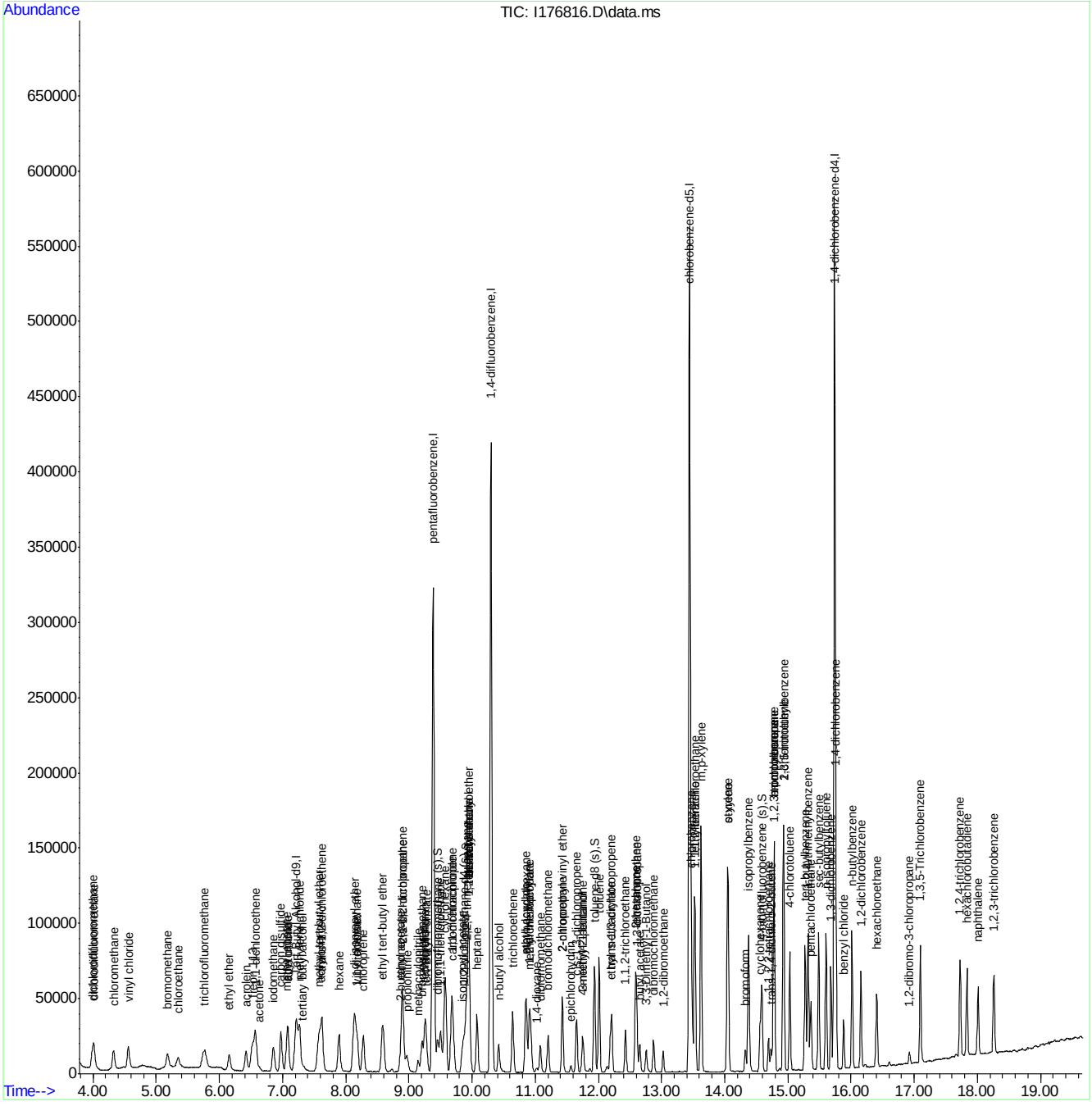
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.561	55	13521	91.53	ug/L	98
94) 1,1,2,2-tetrachloroethane	14.692	83	11116	9.21	ug/L	97
95) trans-1,4-dichloro-2-b...	14.734	53	2969	9.14	ug/L	100
96) 1,2,3-trichloropropane	14.770	110	2675	9.74	ug/L	99
97) n-propylbenzene	14.781	91	71765	10.13	ug/L	99
98) bromobenzene	14.781	156	14911	9.79	ug/L	99
99) 2-chlorotoluene	14.933	126	14588	10.21	ug/L	95
100) 4-chlorotoluene	15.032	91	44522	9.68	ug/L	99
101) 1,3,5-trimethylbenzene	14.927	105	50953	10.11	ug/L	98
102) tert-butylbenzene	15.278	119	42323	9.96	ug/L	97
103) pentachloroethane	15.367	167	8969	9.81	ug/L	94
104) 1,2,4-trimethylbenzene	15.320	105	50664	9.96	ug/L	98
105) sec-butylbenzene	15.487	105	64912	10.08	ug/L	100
106) p-isopropyltoluene	15.607	119	52875	9.97	ug/l	98
107) benzyl chloride	15.884	91	22990	9.00	ug/L	99
108) 1,3-dichlorobenzene	15.681	146	28521	9.84	ug/L	100
109) 1,4-dichlorobenzene	15.764	146	28269	9.63	ug/L	97
110) 1,2-dichlorobenzene	16.156	146	25575	9.63	ug/L	99
111) n-butylbenzene	16.015	92	28763	10.10	ug/L	98
112) hexachloroethane	16.407	119	10692	10.03	ug/L	90
113) 1,2-dibromo-3-chloropr...	16.925	157	2092	9.04	ug/L	96
114) 1,3,5-Trichlorobenzene	17.098	180	23854	9.85	ug/L	99
115) 1,2,4-trichlorobenzene	17.726	180	20272	9.60	ug/L	98
116) hexachlorobutadiene	17.835	225	13488	10.26	ug/L	100
117) naphthalene	18.013	128	34312	9.41	ug/L	100
118) 1,2,3-trichlorobenzene	18.264	180	17271	9.52	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176816.D
Acq On : 30 Aug 2012 10:45 am
Operator : SCOTTM
Sample : IC7140-10
Misc : MS34716,VI7140,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 31 08:10:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176817.D
Acq On : 30 Aug 2012 11:18 am
Operator : SCOTTM
Sample : IC7140-5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 31 08:10:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	87520	50.00	ug/L		0.00
5) pentafluorobenzene	9.389	168	284575	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.299	114	402357	50.00	ug/L		0.00
75) chlorobenzene-d5	13.442	117	314221	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.738	152	149717	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.457	113	8959	5.57	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 11.14%#				
47) 1,2-dichloroethane-d4...	9.870	65	8976	5.61	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 11.22%#				
76) toluene-d8 (s)	11.941	98	27625	5.08	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 10.16%#				
91) 4-bromofluorobenzene (s)	14.588	95	9887	5.12	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 10.24%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.333	59	3046	22.63	ug/L		89
3) iso-butyl alcohol	9.943	74	2206	47.11	ug/L	#	92
4) 1,4-dioxane	11.026	88	1340	114.82	ug/L		95
6) chlorodifluoromethane	4.012	51	9071	5.00	ug/L		97
7) dichlorodifluoromethane	3.991	85	11060	4.68	ug/L		97
8) chloromethane	4.321	50	9607	4.79	ug/L		100
9) vinyl chloride	4.551	62	10131	4.71	ug/L		98
10) bromomethane	5.178	94	4073	4.75	ug/L		92
11) chloroethane	5.341	64	4151	4.81	ug/L		92
12) trichlorofluoromethane	5.749	101	11063	4.72	ug/L		96
13) ethyl ether	6.162	74	3596	4.80	ug/L		98
14) acrolein	6.423	56	8927	46.92	ug/L		100
15) freon 113	6.528	151	6347	4.93	ug/L		99
16) 1,1-dichloroethene	6.570	61	10425	4.68	ug/L		100
17) acetone	6.622	58	531	1.33	ug/L	#	97
18) iodomethane	6.857	142	12585	4.79	ug/L	#	99
19) carbon disulfide	6.972	TIC	30774	4.59	ug/L	#	98
20) methyl acetate	7.067	74	790	4.80	ug/L	#	83
21) allyl chloride	7.088	76	3864	4.66	ug/L		93
22) acetonitrile	7.077	41	17365	49.96	ug/L		98
23) methylene chloride	7.271	84	7323	4.64	ug/L		99
24) methyl tert butyl ether	7.569	73	17843	4.56	ug/L		98
25) acrylonitrile	7.600	53	7473	23.35	ug/L		99
26) trans-1,2-dichloroethene	7.626	96	7878	4.73	ug/L		96
27) hexane	7.893	57	8877	5.00	ug/L		96
28) di-isopropyl ether	8.134	45	21769	4.80	ug/L		90
29) vinyl acetate	8.175	65	4100	4.82	ug/L	#	100
30) 1,1-dichloroethane	8.181	63	12441	4.76	ug/L		99
31) chloroprene	8.275	53	9221	4.87	ug/L		99
32) ethyl tert-butyl ether	8.589	59	20444	4.73	ug/L		99
33) 2-butanone	8.871	72	505	3.99	ug/L	#	38
34) ethyl acetate	8.882	45	756	5.14	ug/L	#	1
35) 2,2-dichloropropane	8.897	77	11577	4.65	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176817.D
Acq On : 30 Aug 2012 11:18 am
Operator : SCOTTM
Sample : IC7140-5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 31 08:10:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.897	96	8047	4.59	ug/L		94
37) methacrylonitrile	9.148	67	1683	4.35	ug/L	#	84
38) propionitrile	8.976	54	5679	4.51	ug/L		97
39) bromochloromethane	9.206	128	3421	4.80	ug/L		94
40) tetrahydrofuran	9.242	42	1877	5.31	ug/L		87
41) chloroform	9.258	83	12696	4.64	ug/L		99
42) tert-Butyl Formate	9.284	59	4862	4.70	ug/L		99
44) 1,1,1-trichloroethane	9.504	97	11396	4.75	ug/L		98
45) cyclohexane	9.567	84	10526	4.73	ug/L		88
48) carbon tetrachloride	9.697	117	9627	4.64	ug/L		99
49) 1,1-dichloropropene	9.677	75	9600	4.66	ug/L		99
50) isopropyl acetate	9.844	61	1944	4.61	ug/L		96
51) benzene	9.943	78	27880	4.73	ug/L		98
52) 2,2,4-trimethylpentane	9.912	57	26200	4.99	ug/L		98
53) tert-amyl methyl ether	9.954	73	17865	4.71	ug/L		99
54) 1,2-dichloroethane	9.964	62	8232	4.73	ug/L		98
55) heptane	10.079	57	5231	5.09	ug/L		100
56) n-butyl alcohol	10.424	56	6608	227.63	ug/L		95
57) trichloroethene	10.644	95	7030	4.65	ug/L		99
58) ethyl acrylate	10.853	55	9845	4.78	ug/L	#	99
59) methyl methacrylate	10.900	69	2961	4.38	ug/L		94
60) 1,2-dichloropropane	10.916	63	6596	4.78	ug/L		99
61) methylcyclohexane	10.853	83	12173	5.02	ug/L		98
62) dibromomethane	11.083	93	3624	4.76	ug/L		97
63) bromodichloromethane	11.204	83	8476	4.56	ug/L		97
64) 2-nitropropane	11.423	41	1895	4.82	ug/L	#	87
65) 2-chloroethyl vinyl ether	11.429	63	11268	23.35	ug/L		99
66) epichlorohydrin	11.565	57	2153	23.06	ug/L		96
67) cis-1,3-dichloropropene	11.654	75	10224	4.62	ug/L		99
68) 4-methyl-2-pentanone	11.742	58	1638	4.43	ug/L	#	87
69) 3-methyl-1-butanol	11.758	70	2389	124.66	ug/L		95
70) toluene	12.009	91	28460	4.72	ug/L		100
71) trans-1,3-dichloropropene	12.213	75	8815	4.64	ug/L		99
72) ethyl methacrylate	12.192	69	5699	4.47	ug/L		100
73) 1,1,2-trichloroethane	12.433	83	4031	4.71	ug/L		99
74) 2-hexanone	12.595	58	1534	4.72	ug/L		97
77) tetrachloroethene	12.590	166	7587	4.70	ug/L		100
78) 1,3-dichloropropane	12.611	76	7699	4.65	ug/L		97
79) butyl acetate	12.658	56	2804	4.48	ug/L		92
80) 3,3-Dimethyl-1-Butanol	12.757	57	3979	44.10	ug/L	#	98
81) dibromochloromethane	12.877	129	5677	4.41	ug/L		100
82) 1,2-dibromoethane	13.024	107	4744	4.61	ug/L	#	99
83) chlorobenzene	13.474	112	17597	4.72	ug/L		92
84) 1,1,1,2-tetrachloroethane	13.531	131	6405	4.82	ug/L		96
85) ethylbenzene	13.521	91	30371	4.71	ug/L		100
86) m,p-xylene	13.625	106	23570	9.69	ug/L		98
87) o-xylene	14.044	106	11497	4.82	ug/L		100
88) styrene	14.054	104	17773	4.72	ug/L		97
89) bromoform	14.326	173	3347	4.40	ug/L		96
92) isopropylbenzene	14.378	105	29582	4.79	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176817.D
Acq On : 30 Aug 2012 11:18 am
Operator : SCOTTM
Sample : IC7140-5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 31 08:10:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

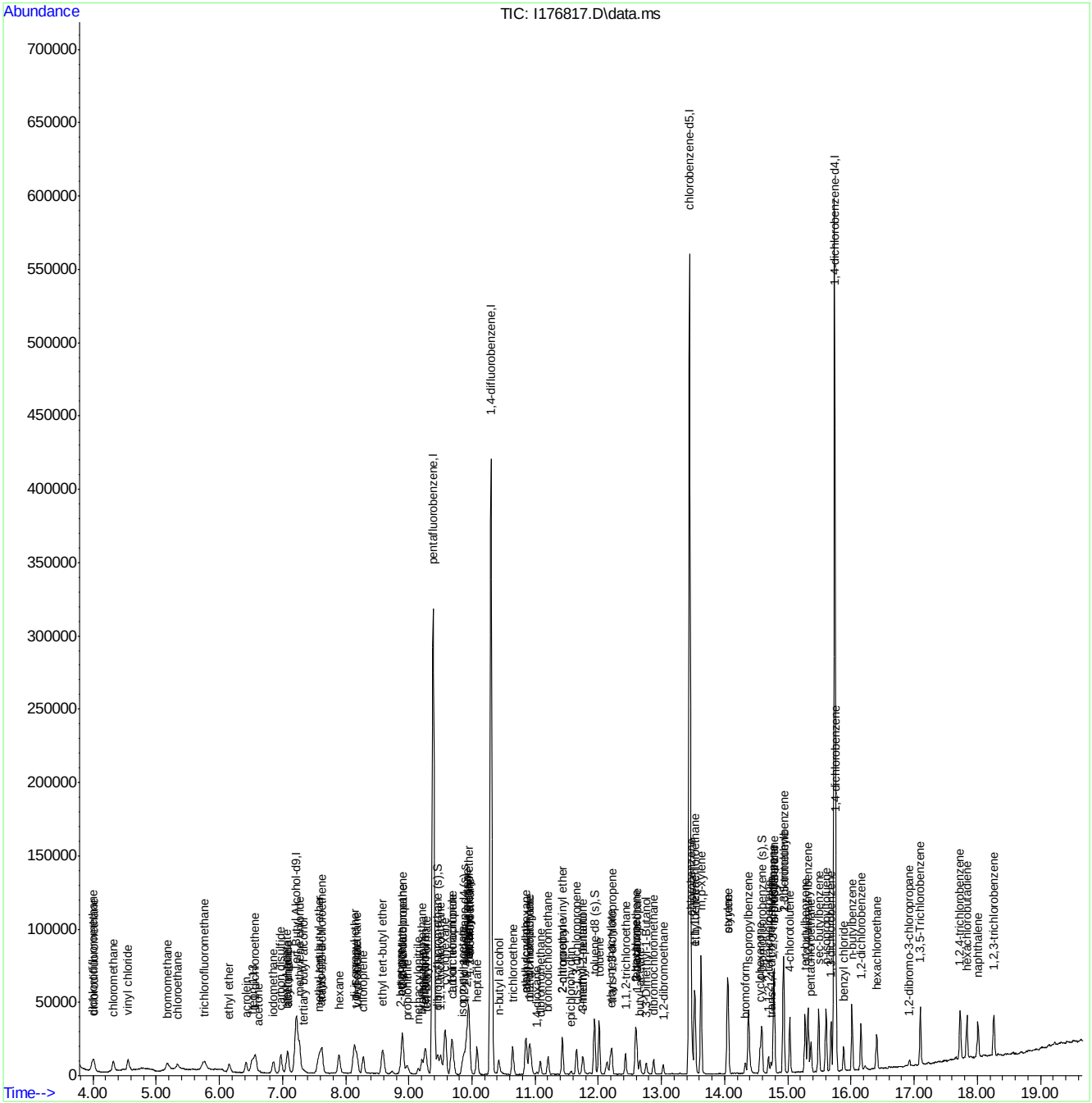
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.556	55	7336	48.54	ug/L	97
94) 1,1,2,2-tetrachloroethane	14.692	83	5678	4.60	ug/L	98
95) trans-1,4-dichloro-2-b...	14.729	53	1427	4.29	ug/L	86
96) 1,2,3-trichloropropane	14.766	110	1332	4.74	ug/L	93
97) n-propylbenzene	14.781	91	34830	4.80	ug/L	98
98) bromobenzene	14.781	156	7379	4.73	ug/L	99
99) 2-chlorotoluene	14.933	126	7053	4.82	ug/L	96
100) 4-chlorotoluene	15.032	91	21677	4.60	ug/L	99
101) 1,3,5-trimethylbenzene	14.928	105	24287	4.71	ug/L	98
102) tert-butylbenzene	15.278	119	20526	4.72	ug/L	98
103) pentachloroethane	15.367	167	4233	4.52	ug/L	95
104) 1,2,4-trimethylbenzene	15.320	105	24590	4.73	ug/L	93
105) sec-butylbenzene	15.487	105	30876	4.69	ug/L	100
106) p-isopropyltoluene	15.608	119	25472	4.70	ug/l	99
107) benzyl chloride	15.885	91	12079	4.62	ug/L	99
108) 1,3-dichlorobenzene	15.686	146	13953	4.71	ug/L	99
109) 1,4-dichlorobenzene	15.765	146	13949	4.65	ug/L	96
110) 1,2-dichlorobenzene	16.157	146	12595	4.64	ug/L	97
111) n-butylbenzene	16.016	92	13733	4.72	ug/L	95
112) hexachloroethane	16.408	119	4558	4.18	ug/L	98
113) 1,2-dibromo-3-chloropr...	16.926	157	1082	4.57	ug/L	96
114) 1,3,5-Trichlorobenzene	17.098	180	11668	4.71	ug/L	98
115) 1,2,4-trichlorobenzene	17.726	180	10299	4.77	ug/L	94
116) hexachlorobutadiene	17.836	225	6479	4.82	ug/L	98
117) naphthalene	18.014	128	18995	5.09	ug/L	99
118) 1,2,3-trichlorobenzene	18.259	180	8846	4.77	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176817.D
Acq On : 30 Aug 2012 11:18 am
Operator : SCOTTM
Sample : IC7140-5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 31 08:10:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176818.D
Acq On : 30 Aug 2012 11:49 am
Operator : SCOTTM
Sample : IC7140-2
Misc : MS34716,VI7140,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 14:00:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.223	65	85527	50.00	ug/L	-0.03
5) pentafluorobenzene	9.383	168	281131	50.00	ug/L	-0.03
46) 1,4-difluorobenzene	10.299	114	392341	50.00	ug/L	-0.03
75) chlorobenzene-d5	13.442	117	307178	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.738	152	146751	50.00	ug/L	-0.02
System Monitoring Compounds						
43) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
47) 1,2-dichloroethane-d4...	0.000	65	0d	0.00	ug/L	
Spiked Amount 50.000	Range 85 - 122		Recovery =	0.00%#		
76) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount 50.000	Range 81 - 127		Recovery =	0.00%#		
91) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount 50.000	Range 66 - 132		Recovery =	0.00%#		
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.333	59	1380	9.93	ug/L	71
3) iso-butyl alcohol	9.938	74	875	20.98	ug/L #	1
4) 1,4-dioxane	11.031	88	481	47.24	ug/L #	72
6) chlorodifluoromethane	4.017	51	3586	1.94	ug/L	97
7) dichlorodifluoromethane	3.996	85	4115	1.74	ug/L	94
8) chloromethane	4.321	50	4119	1.63	ug/L	97
9) vinyl chloride	4.561	62	3896	2.00	ug/L	96
10) bromomethane	5.178	94	1733	2.04	ug/L	91
11) chloroethane	5.351	64	1664	1.97	ug/L	86
12) trichlorofluoromethane	5.775	101	4225	1.83	ug/L	97
13) ethyl ether	6.151	74	1706	2.11	ug/L	90
14) acrolein	6.423	56	3897	17.00	ug/L	98
15) freon 113	6.517	151	2420	1.93	ug/L	96
16) 1,1-dichloroethene	6.570	61	4252	1.67	ug/L	97
18) iodomethane	6.852	142	5195	1.94	ug/L	88
19) carbon disulfide	6.978	TIC	13251	7.27	ug/L #	41
20) methyl acetate	7.067	74	304	1.77	ug/L #	43
21) allyl chloride	7.087	76	1587	1.91	ug/L	78
22) acetonitrile	7.077	41	7084	16.58	ug/L	93
23) methylene chloride	7.270	84	3251	1.86	ug/L	93
24) methyl tert butyl ether	7.574	73	8190	2.06	ug/L	96
25) acrylonitrile	7.600	53	3311	7.85	ug/L	91
26) trans-1,2-dichloroethene	7.631	96	3810	2.17	ug/L	90
27) hexane	7.903	57	3399	1.28	ug/L	95
28) di-isopropyl ether	8.133	45	8872	1.47	ug/L	97
29) vinyl acetate	8.181	65	1727	1.82	ug/L #	1
30) 1,1-dichloroethane	8.181	63	5175	1.75	ug/L	93
31) chloroprene	8.280	53	3580	1.66	ug/L	97
32) ethyl tert-butyl ether	8.589	59	8480	1.77	ug/L	98
34) ethyl acetate	8.876	45	352	1.77	ug/L	64
35) 2,2-dichloropropane	8.902	77	4865	1.86	ug/L	95
36) cis-1,2-dichloroethene	8.902	96	3987	2.36	ug/L	88
38) propionitrile	8.981	54	2621	1.67	ug/L	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176818.D
Acq On : 30 Aug 2012 11:49 am
Operator : SCOTTM
Sample : IC7140-2
Misc : MS34716,VI7140,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 14:00:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) bromochloromethane	9.211	128	1444	2.07	ug/L		93
41) chloroform	9.258	83	5338	1.81	ug/L		96
42) tert-Butyl Formate	9.284	59	2096	1.71	ug/L		95
44) 1,1,1-trichloroethane	9.504	97	4607	1.80	ug/L		97
45) cyclohexane	9.577	84	4167	1.88	ug/L	#	47
48) carbon tetrachloride	9.703	117	3869	1.47	ug/L		95
49) 1,1-dichloropropene	9.676	75	3898	1.58	ug/L		93
50) isopropyl acetate	9.849	61	759	0.87	ug/L		97
51) benzene	9.943	78	11644	1.71	ug/L		94
52) 2,2,4-trimethylpentane	9.912	57	9294	1.35	ug/L		95
53) tert-amyl methyl ether	9.948	73	7489	1.58	ug/L		87
54) 1,2-dichloroethane	9.964	62	3488	1.52	ug/L		98
55) heptane	10.084	57	1807	1.40	ug/L		96
56) n-butyl alcohol	10.430	56	2777	37.59	ug/L		86
57) trichloroethene	10.649	95	2854	1.66	ug/L		96
58) ethyl acrylate	10.853	55	3665	1.41	ug/L	#	88
59) methyl methacrylate	10.906	69	1163	1.37	ug/L		88
60) 1,2-dichloropropane	10.916	63	2700	1.54	ug/L		98
61) methylcyclohexane	10.853	83	4379	1.60	ug/L		98
62) dibromomethane	11.078	93	1499	1.67	ug/L		98
63) bromodichloromethane	11.204	83	3536	1.59	ug/L		99
64) 2-nitropropane	11.429	41	854	1.45	ug/L	#	73
65) 2-chloroethyl vinyl ether	11.434	63	4714	7.62	ug/L		97
66) epichlorohydrin	11.575	57	941	8.10	ug/L	#	76
67) cis-1,3-dichloropropene	11.659	75	4313	1.63	ug/L		94
68) 4-methyl-2-pentanone	11.748	58	671	1.39	ug/L	#	74
69) 3-methyl-1-butanol	11.758	70	963	1.56	ug/L		98
70) toluene	12.014	91	11545	1.74	ug/L		98
71) trans-1,3-dichloropropene	12.213	75	3705	1.62	ug/L		97
72) ethyl methacrylate	12.192	69	2483	1.56	ug/L		97
73) 1,1,2-trichloroethane	12.433	83	1673	1.71	ug/L		92
74) 2-hexanone	12.595	58	648	1.54	ug/L		90
77) tetrachloroethene	12.595	166	3088	1.54	ug/L		97
78) 1,3-dichloropropane	12.611	76	3307	1.62	ug/L		99
79) butyl acetate	12.652	56	1198	1.42	ug/L	#	75
80) 3,3-Dimethyl-1-Butanol	12.757	57	1786	14.08	ug/L	#	98
81) dibromochloromethane	12.877	129	2398	1.57	ug/L		99
82) 1,2-dibromoethane	13.029	107	2028	1.85	ug/L	#	99
83) chlorobenzene	13.474	112	7302	1.77	ug/L		87
84) 1,1,1,2-tetrachloroethane	13.536	131	2613	1.65	ug/L		91
85) ethylbenzene	13.521	91	12601	1.68	ug/L		100
86) m,p-xylene	13.625	106	9444	3.54	ug/L		99
87) o-xylene	14.044	106	4617	1.77	ug/L		97
88) styrene	14.054	104	7333	1.76	ug/L		97
89) bromoform	14.331	173	1425	1.33	ug/L		91
92) isopropylbenzene	14.378	105	11932	1.90	ug/L		99
93) cyclohexanone	14.561	55	2645	19.13	ug/L		97
94) 1,1,2,2-tetrachloroethane	14.692	83	2515	1.91	ug/L		100
95) trans-1,4-dichloro-2-b...	14.734	53	589	1.40	ug/L		98
96) 1,2,3-trichloropropane	14.771	110	560	1.83	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176818.D
Acq On : 30 Aug 2012 11:49 am
Operator : SCOTTM
Sample : IC7140-2
Misc : MS34716,VI7140,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 14:00:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

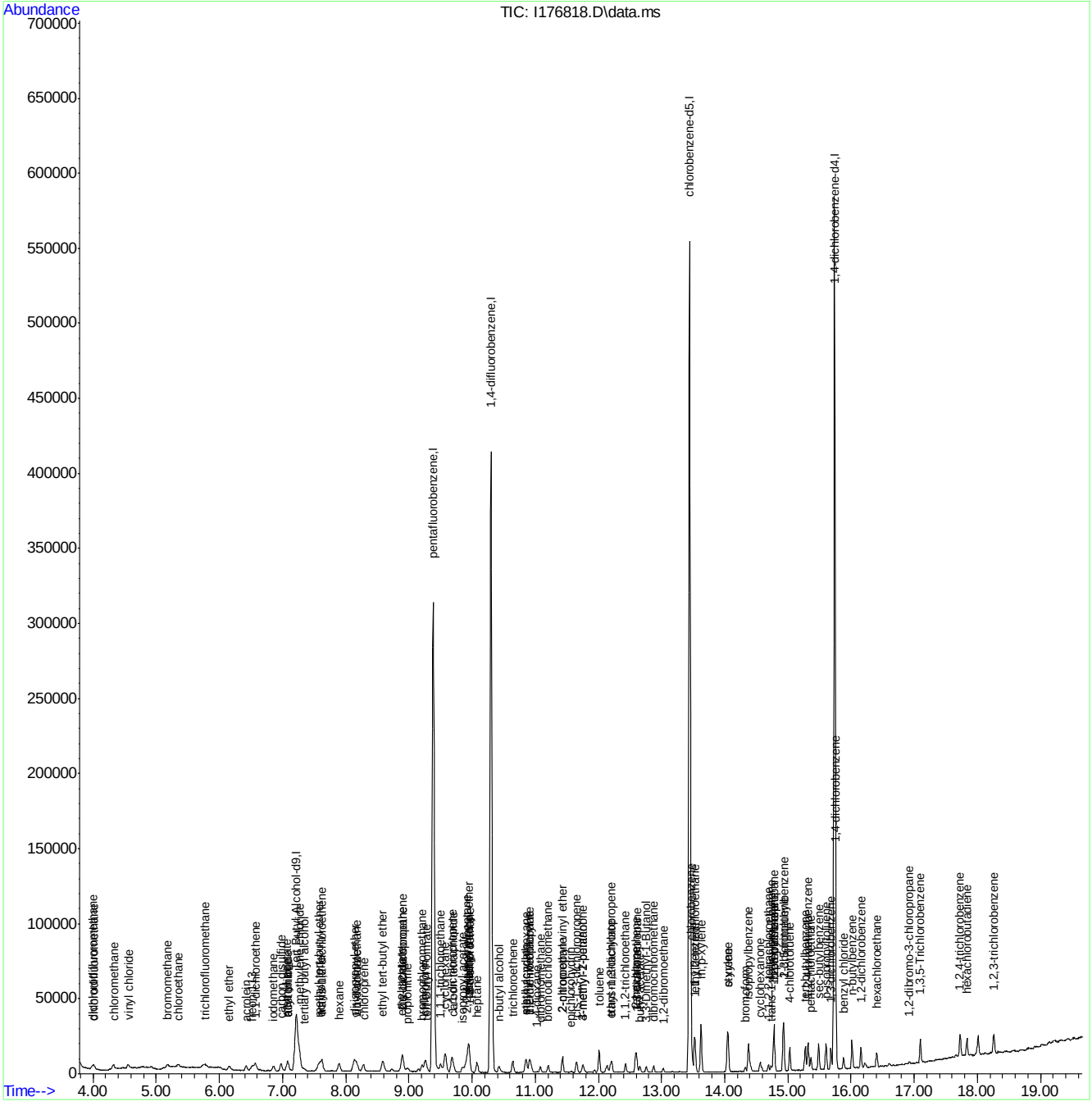
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) n-propylbenzene	14.781	91	14300	1.91	ug/L	98
98) bromobenzene	14.781	156	3128	1.85	ug/L	98
99) 2-chlorotoluene	14.933	126	2848	1.95	ug/L	93
100) 4-chlorotoluene	15.032	91	9165	1.93	ug/L	97
101) 1,3,5-trimethylbenzene	14.928	105	10167	1.95	ug/L	98
102) tert-butylbenzene	15.278	119	8286	1.91	ug/L	94
103) pentachloroethane	15.367	167	1786	1.65	ug/L	97
104) 1,2,4-trimethylbenzene	15.320	105	10053	1.94	ug/L	91
105) sec-butylbenzene	15.487	105	12733	1.96	ug/L	99
106) p-isopropyltoluene	15.607	119	10429	1.90	ug/l	74
107) benzyl chloride	15.885	91	5109	1.78	ug/L	99
108) 1,3-dichlorobenzene	15.686	146	5802	1.88	ug/L	99
109) 1,4-dichlorobenzene	15.764	146	6081	1.95	ug/L	96
110) 1,2-dichlorobenzene	16.157	146	5522	1.95	ug/L	99
111) n-butylbenzene	16.015	92	5682	1.96	ug/L	95
112) hexachloroethane	16.408	119	2051	1.85	ug/L	87
113) 1,2-dibromo-3-chloropr...	16.926	157	470	1.68	ug/L	90
114) 1,3,5-Trichlorobenzene	17.098	180	5013	1.76	ug/L	99
115) 1,2,4-trichlorobenzene	17.726	180	4511	1.84	ug/L	98
116) hexachlorobutadiene	17.836	225	2566	1.61	ug/L	98
118) 1,2,3-trichlorobenzene	18.259	180	4045	1.89	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176818.D
Acq On : 30 Aug 2012 11:49 am
Operator : SCOTTM
Sample : IC7140-2
Misc : MS34716,VI7140,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 14:00:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176819.D
Acq On : 30 Aug 2012 12:19 pm
Operator : SCOTTM
Sample : IC7140-1
Misc : MS34716,VI7140,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 30 13:26:19 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	82576	50.00	ug/L		-0.03
5) pentafluorobenzene	9.384	168	290041	50.00	ug/L		-0.03
46) 1,4-difluorobenzene	10.299	114	405858	50.00	ug/L		-0.03
75) chlorobenzene-d5	13.442	117	316721	50.00	ug/L		-0.02
90) 1,4-dichlorobenzene-d4	15.738	152	149829	50.00	ug/L		-0.02
System Monitoring Compounds							
43) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L		
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#			
47) 1,2-dichloroethane-d4...	0.000	65	0d	0.00	ug/L		
Spiked Amount 50.000	Range 85 - 122		Recovery =	0.00%#			
76) toluene-d8 (s)	11.936	98	1180	0.19	ug/L		-0.02
Spiked Amount 50.000	Range 81 - 127		Recovery =	0.38%#			
91) 4-bromofluorobenzene (s)	14.582	95	478	0.26	ug/L		-0.03
Spiked Amount 50.000	Range 66 - 132		Recovery =	0.52%#			
Target Compounds							Qvalue
6) chlorodifluoromethane	4.007	51	1712	0.90	ug/L		96
7) dichlorodifluoromethane	3.986	85	2055	0.84	ug/L		86
8) chloromethane	4.321	50	2217	0.85	ug/L		93
9) vinyl chloride	4.546	62	1913	0.95	ug/L		95
10) bromomethane	5.168	94	964	1.10	ug/L		86
11) chloroethane	5.335	64	899	1.03	ug/L		84
12) trichlorofluoromethane	5.749	101	2126	0.89	ug/L		83
13) ethyl ether	6.157	74	856	1.03	ug/L		95
15) freon 113	6.528	151	1262	0.97	ug/L	#	93
16) 1,1-dichloroethene	6.570	61	1964	0.75	ug/L		94
18) iodomethane	6.852	142	2280	0.82	ug/L	#	46
19) carbon disulfide	6.972	TIC	6410	3.41	ug/L	#	43
21) allyl chloride	7.077	76	726	0.85	ug/L	#	61
22) acetonitrile	7.082	41	3482	7.90	ug/L		96
23) methylene chloride	7.265	84	1882	1.04	ug/L		90
24) methyl tert butyl ether	7.569	73	4085	0.99	ug/L		97
25) acrylonitrile	7.595	53	1417	3.26	ug/L		95
26) trans-1,2-dichloroethene	7.626	96	2050	1.13	ug/L		85
27) hexane	7.893	57	2471	0.90	ug/L		93
28) di-isopropyl ether	8.134	45	4294	0.69	ug/L		97
29) vinyl acetate	8.175	65	749	0.77	ug/L	#	1
30) 1,1-dichloroethane	8.175	63	2384	0.78	ug/L		94
31) chloroprene	8.275	53	1555	0.70	ug/L		95
32) ethyl tert-butyl ether	8.583	59	4000	0.81	ug/L		98
34) ethyl acetate	8.876	45	147	0.72	ug/L	#	52
35) 2,2-dichloropropane	8.892	77	2303	0.85	ug/L		94
36) cis-1,2-dichloroethene	8.897	96	1967	1.13	ug/L		79
38) propionitrile	8.981	54	1107	0.68	ug/L		53
39) bromochloromethane	9.216	128	644	0.90	ug/L	#	68
41) chloroform	9.253	83	2629	0.87	ug/L		95
42) tert-Butyl Formate	9.284	59	959	0.76	ug/L		89
44) 1,1,1-trichloroethane	9.504	97	2009	0.76	ug/L		89
45) cyclohexane	9.572	84	1843	0.80	ug/L	#	56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176819.D
Acq On : 30 Aug 2012 12:19 pm
Operator : SCOTTM
Sample : IC7140-1
Misc : MS34716,VI7140,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 30 13:26:19 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) carbon tetrachloride	9.697	117	1692	0.62	ug/L		96
49) 1,1-dichloropropene	9.677	75	1825	0.71	ug/L		95
51) benzene	9.938	78	5349	0.76	ug/L		97
52) 2,2,4-trimethylpentane	9.917	57	4431	0.62	ug/L		91
53) tert-amyl methyl ether	9.954	73	3490	0.71	ug/L		85
54) 1,2-dichloroethane	9.964	62	1550	0.65	ug/L		91
55) heptane	10.084	57	833	0.62	ug/L		99
57) trichloroethene	10.644	95	1285	0.72	ug/L		97
60) 1,2-dichloropropane	10.916	63	1219	0.67	ug/L		93
61) methylcyclohexane	10.853	83	2098	0.74	ug/L		88
62) dibromomethane	11.078	93	677	0.73	ug/L		94
63) bromodichloromethane	11.204	83	1649	0.72	ug/L		92
64) 2-nitropropane	11.429	41	404	0.66	ug/L	#	72
65) 2-chloroethyl vinyl ether	11.434	63	2111	3.30	ug/L		96
67) cis-1,3-dichloropropene	11.659	75	2019	0.74	ug/L		93
68) 4-methyl-2-pentanone	11.748	58	296	0.59	ug/L	#	62
69) 3-methyl-1-butanol	11.763	70	412	0.65	ug/L		91
70) toluene	12.009	91	5517	0.80	ug/L		94
71) trans-1,3-dichloropropene	12.218	75	1787	0.76	ug/L		97
72) ethyl methacrylate	12.192	69	1106	0.67	ug/L		89
73) 1,1,2-trichloroethane	12.428	83	784	0.77	ug/L		97
74) 2-hexanone	12.595	58	230	0.53	ug/L	#	60
77) tetrachloroethene	12.590	166	1385	0.67	ug/L		100
78) 1,3-dichloropropane	12.611	76	1546	0.73	ug/L		93
80) 3,3-Dimethyl-1-Butanol	12.757	57	832	6.36	ug/L	#	93
81) dibromochloromethane	12.872	129	1104	0.70	ug/L		93
82) 1,2-dibromoethane	13.029	107	977	0.86	ug/L	#	97
83) chlorobenzene	13.474	112	3518	0.83	ug/L		84
84) 1,1,1,2-tetrachloroethane	13.536	131	1197	0.73	ug/L		94
85) ethylbenzene	13.521	91	5914	0.77	ug/L		97
86) m,p-xylene	13.625	106	4414	1.61	ug/L		99
87) o-xylene	14.044	106	2161	0.80	ug/L		96
88) styrene	14.054	104	3372	0.78	ug/L		96
89) bromoform	14.326	173	657	0.60	ug/L		94
92) isopropylbenzene	14.378	105	5417	0.84	ug/L		98
93) cyclohexanone	14.562	55	1207	8.55	ug/L		96
94) 1,1,2,2-tetrachloroethane	14.698	83	1178	0.88	ug/L		87
95) trans-1,4-dichloro-2-b...	14.729	53	283	0.66	ug/L		85
96) 1,2,3-trichloropropane	14.766	110	231	0.74	ug/L		94
97) n-propylbenzene	14.781	91	6602	0.86	ug/L		99
98) bromobenzene	14.781	156	1496	0.87	ug/L		97
99) 2-chlorotoluene	14.938	126	1335	0.90	ug/L		94
100) 4-chlorotoluene	15.032	91	4724	0.97	ug/L		96
101) 1,3,5-trimethylbenzene	14.928	105	4733	0.89	ug/L		97
102) tert-butylbenzene	15.273	119	3908	0.88	ug/L		96
103) pentachloroethane	15.367	167	830	0.75	ug/L		93
104) 1,2,4-trimethylbenzene	15.320	105	4886	0.92	ug/L		93
105) sec-butylbenzene	15.487	105	5844	0.88	ug/L		97
106) p-isopropyltoluene	15.608	119	5018	0.89	ug/l	#	71
107) benzyl chloride	15.880	91	2453	0.84	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176819.D
Acq On : 30 Aug 2012 12:19 pm
Operator : SCOTTM
Sample : IC7140-1
Misc : MS34716,VI7140,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 30 13:26:19 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

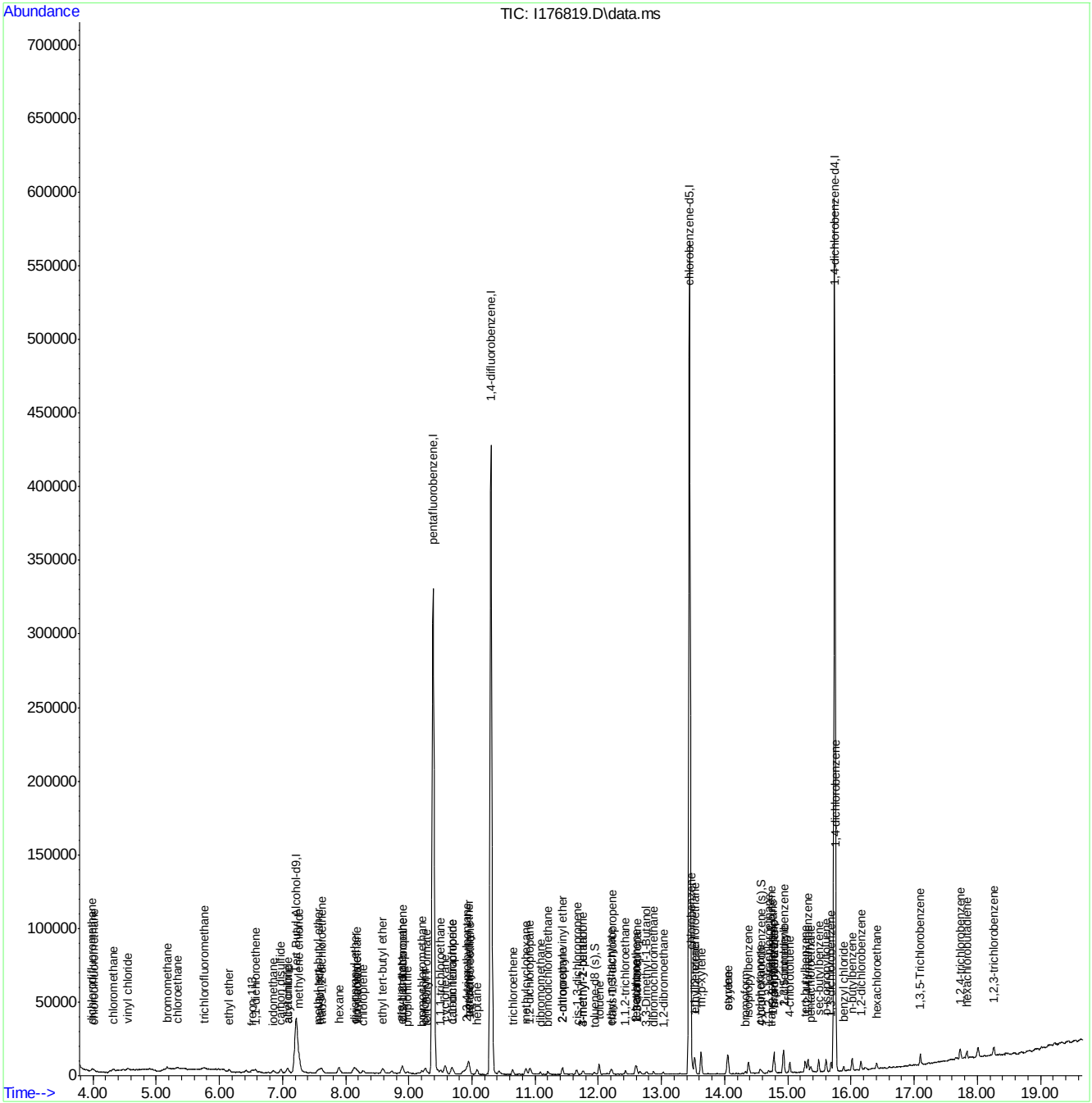
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 1,3-dichlorobenzene	15.686	146	2849	0.90	ug/L		97
109) 1,4-dichlorobenzene	15.765	146	2846	0.89	ug/L		93
110) 1,2-dichlorobenzene	16.162	146	2631	0.91	ug/L		98
111) n-butylbenzene	16.016	92	2603	0.88	ug/L		96
112) hexachloroethane	16.408	119	1101	0.97	ug/L	#	73
114) 1,3,5-Trichlorobenzene	17.098	180	2330	0.80	ug/L		95
115) 1,2,4-trichlorobenzene	17.731	180	2217	0.88	ug/L		96
116) hexachlorobutadiene	17.836	225	1190	0.73	ug/L		88
118) 1,2,3-trichlorobenzene	18.265	180	2012	0.92	ug/L		90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176819.D
Acq On : 30 Aug 2012 12:19 pm
Operator : SCOTTM
Sample : IC7140-1
Misc : MS34716,VI7140,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 30 13:26:19 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/05/12 15:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176820.D
Acq On : 30 Aug 2012 12:50 pm
Operator : SCOTTM
Sample : IC7140-0.5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 13:52:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	79364	50.00	ug/L	-0.03
5) pentafluorobenzene	9.384	168	281068	50.00	ug/L	-0.03
46) 1,4-difluorobenzene	10.299	114	394688	50.00	ug/L	-0.03
75) chlorobenzene-d5	13.442	117	313456	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.738	152	147308	50.00	ug/L	-0.02
System Monitoring Compounds						
43) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
47) 1,2-dichloroethane-d4...	0.000	65	0d	0.00	ug/L	
Spiked Amount 50.000	Range 85 - 122		Recovery =	0.00%#		
76) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount 50.000	Range 81 - 127		Recovery =	0.00%#		
91) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount 50.000	Range 66 - 132		Recovery =	0.00%#		
Target Compounds						Qvalue
6) chlorodifluoromethane	4.012	51	945	0.51	ug/L	61
16) 1,1-dichloroethene	6.570	61	951	0.37	ug/L	89
18) iodomethane	6.852	142	1105	0.41	ug/L #	81
24) methyl tert butyl ether	7.558	73	2296m	0.58	ug/L	
25) acrylonitrile	7.600	53	617	1.46	ug/L	95
26) trans-1,2-dichloroethene	7.626	96	738	0.42	ug/L	80
28) di-isopropyl ether	8.134	45	2265	0.37	ug/L	99
30) 1,1-dichloroethane	8.181	63	1197	0.40	ug/L #	88
31) chloroprene	8.275	53	814	0.38	ug/L #	88
32) ethyl tert-butyl ether	8.589	59	1984	0.41	ug/L	97
35) 2,2-dichloropropane	8.887	77	1227	0.47	ug/L	96
36) cis-1,2-dichloroethene	8.902	96	1196	0.71	ug/L #	68
39) bromochloromethane	9.211	128	303	0.44	ug/L	94
41) chloroform	9.258	83	1506	0.51	ug/L	98
42) tert-Butyl Formate	9.284	59	416	0.34	ug/L #	71
44) 1,1,1-trichloroethane	9.504	97	1009	0.39	ug/L	94
45) cyclohexane	9.567	84	948	0.43	ug/L	85
48) carbon tetrachloride	9.703	117	827	0.31	ug/L	83
49) 1,1-dichloropropene	9.677	75	954	0.38	ug/L	90
51) benzene	9.943	78	2966	0.43	ug/L	95
52) 2,2,4-trimethylpentane	9.907	57	2327	0.34	ug/L	89
53) tert-amyl methyl ether	9.959	73	1840m	0.39	ug/L	
54) 1,2-dichloroethane	9.959	62	809	0.35	ug/L	93
55) heptane	10.074	57	418	0.32	ug/L	97
56) n-butyl alcohol	10.430	56	531	7.14	ug/L #	60
57) trichloroethene	10.644	95	656	0.38	ug/L	94
60) 1,2-dichloropropane	10.916	63	658	0.37	ug/L	98
61) methylcyclohexane	10.848	83	967	0.35	ug/L	93
62) dibromomethane	11.078	93	310	0.34	ug/L	92
63) bromodichloromethane	11.199	83	850	0.38	ug/L	95
64) 2-nitropropane	11.429	41	259	0.44	ug/L #	45
65) 2-chloroethyl vinyl ether	11.434	63	1066	1.71	ug/L	92
67) cis-1,3-dichloropropene	11.659	75	1002	0.38	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176820.D
Acq On : 30 Aug 2012 12:50 pm
Operator : SCOTTM
Sample : IC7140-0.5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 13:52:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration

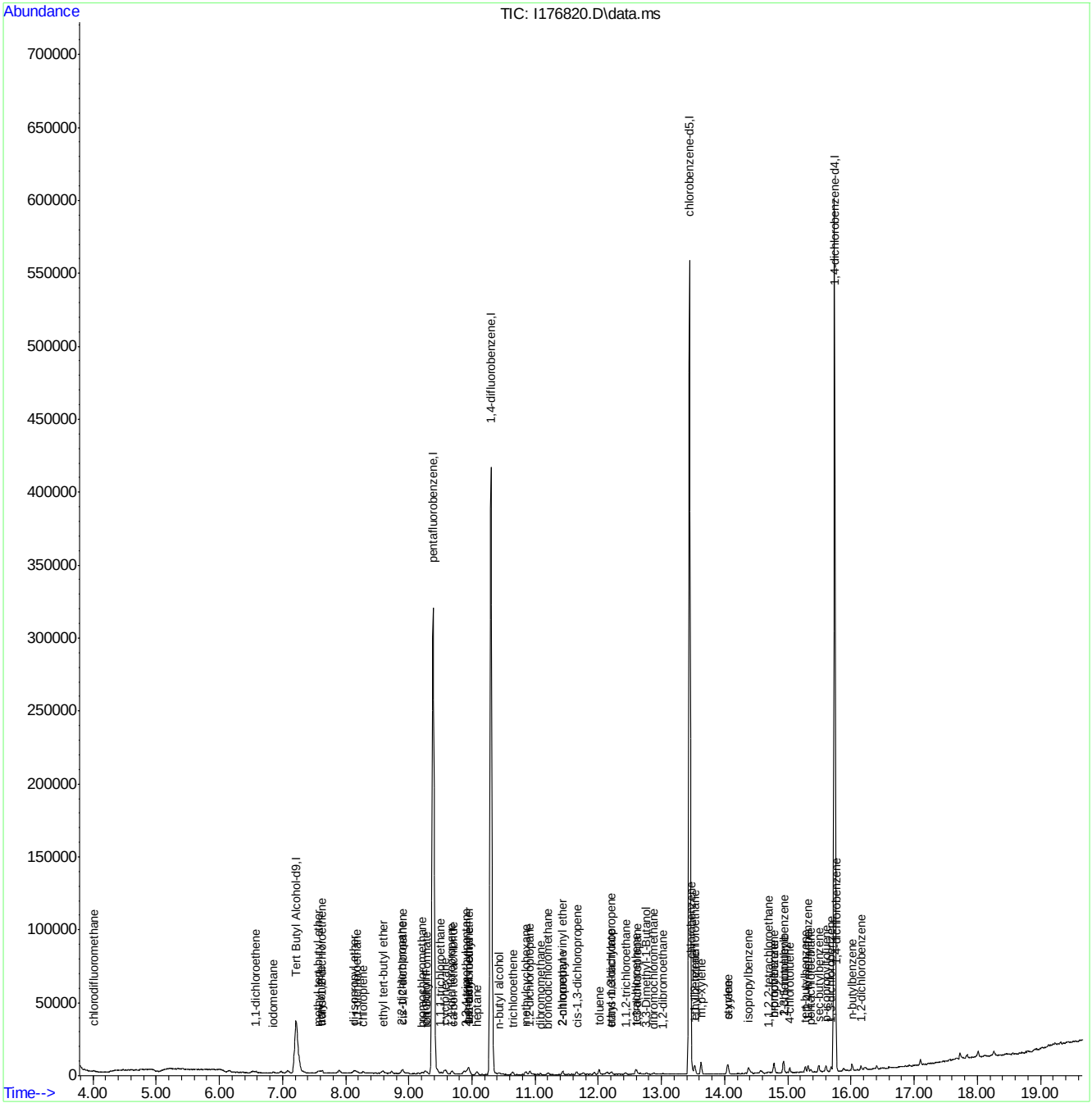
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) toluene	12.009	91	2958	0.44	ug/L		94
71) trans-1,3-dichloropropene	12.213	75	872	0.38	ug/L		96
72) ethyl methacrylate	12.192	69	566	0.35	ug/L		86
73) 1,1,2-trichloroethane	12.428	83	383	0.39	ug/L		96
77) tetrachloroethene	12.595	166	718	0.35	ug/L		91
78) 1,3-dichloropropane	12.616	76	814	0.39	ug/L		91
80) 3,3-Dimethyl-1-Butanol	12.757	57	383	2.96	ug/L	#	96
81) dibromochloromethane	12.877	129	540	0.35	ug/L	#	87
82) 1,2-dibromoethane	13.029	107	470	0.42	ug/L	#	98
83) chlorobenzene	13.474	112	1810	0.43	ug/L		87
84) 1,1,1,2-tetrachloroethane	13.536	131	558	0.35	ug/L		85
85) ethylbenzene	13.521	91	3207	0.42	ug/L		94
86) m,p-xylene	13.625	106	2316	0.85	ug/L		90
87) o-xylene	14.044	106	1182	0.44	ug/L		87
88) styrene	14.054	104	1791	0.42	ug/L		99
92) isopropylbenzene	14.379	105	2809	0.45	ug/L		98
94) 1,1,2,2-tetrachloroethane	14.692	83	578	0.44	ug/L		77
97) n-propylbenzene	14.781	91	3688	0.49	ug/L		99
98) bromobenzene	14.781	156	773	0.46	ug/L	#	86
99) 2-chlorotoluene	14.938	126	721	0.49	ug/L	#	69
100) 4-chlorotoluene	15.032	91	2606	0.55	ug/L		98
101) 1,3,5-trimethylbenzene	14.928	105	2532	0.48	ug/L		94
102) tert-butylbenzene	15.273	119	2135	0.49	ug/L		92
103) pentachloroethane	15.367	167	381	0.35	ug/L		90
104) 1,2,4-trimethylbenzene	15.320	105	2626	0.50	ug/L		92
105) sec-butylbenzene	15.487	105	3216	0.49	ug/L		97
106) p-isopropyltoluene	15.608	119	2739	0.50	ug/l	#	63
108) 1,3-dichlorobenzene	15.686	146	1497	0.48	ug/L		96
109) 1,4-dichlorobenzene	15.770	146	1621	0.52	ug/L		98
110) 1,2-dichlorobenzene	16.162	146	1383	0.49	ug/L		98
111) n-butylbenzene	16.016	92	1418	0.49	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : I176820.D
Acq On : 30 Aug 2012 12:50 pm
Operator : SCOTTM
Sample : IC7140-0.5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 30 13:52:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration



Manual Integration Approval Summary

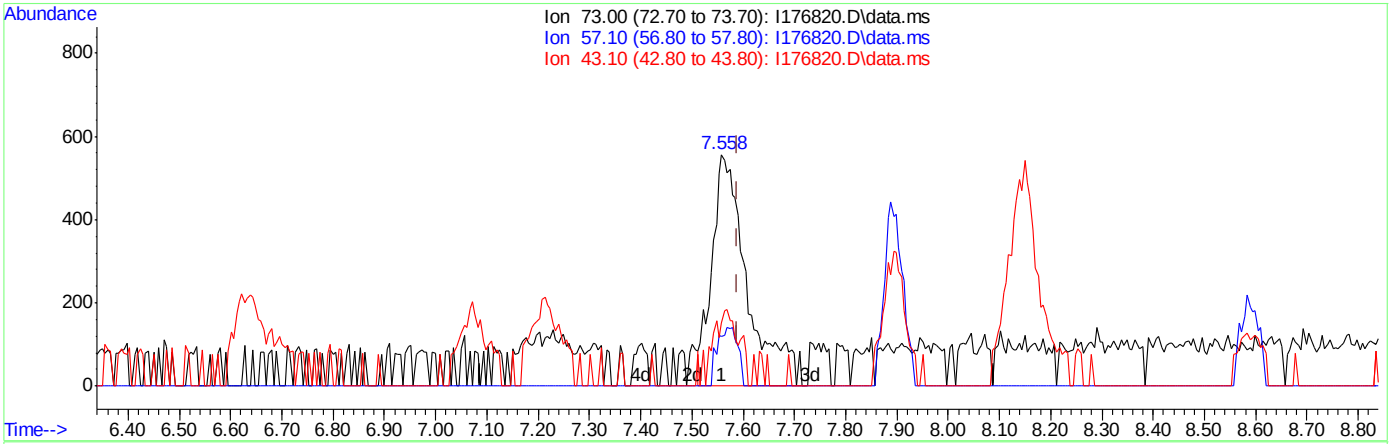
Sample Number:	VI7140-IC7140	**Method:**	SW846 8260B
Lab FileID:	I176820.D	**Analyst approved:**	08/31/12 10:39 Scott McGonigal
Injection Time:	08/30/12 12:50	**Supervisor approved:**	09/05/12 15:42 Kanya Veerawat

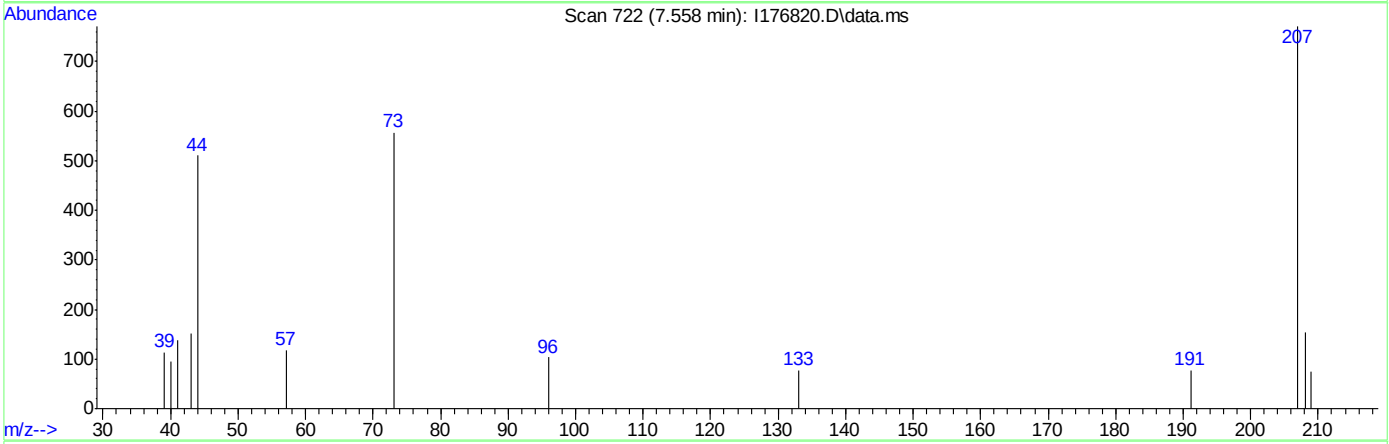
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Tert Butyl Ether	1634-04-4		7.56	Poorly defined baseline
tert-Amyl Methyl Ether	994-05-8		9.96	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VIRAW40\
Data File : I176820.D
Acq On : 30 Aug 2012 12:50 pm
Operator : SCOTTM
Sample : IC7140-0.5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 04 15:59:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration





TIC: I176820.D\data.ms

(24) methyl tert butyl ether

7.558min (-0.031) 0.67ug/L

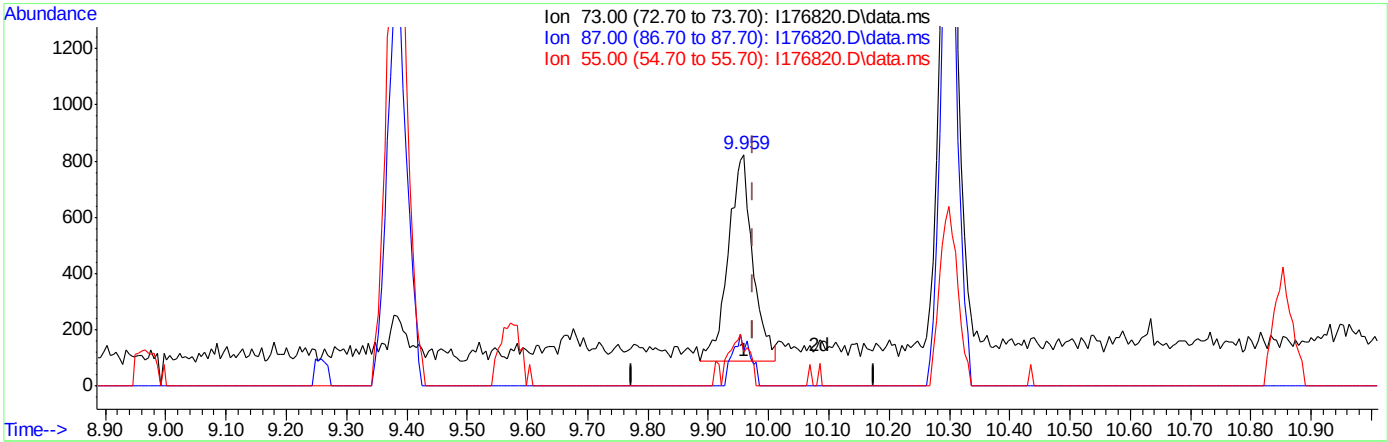
response 2679

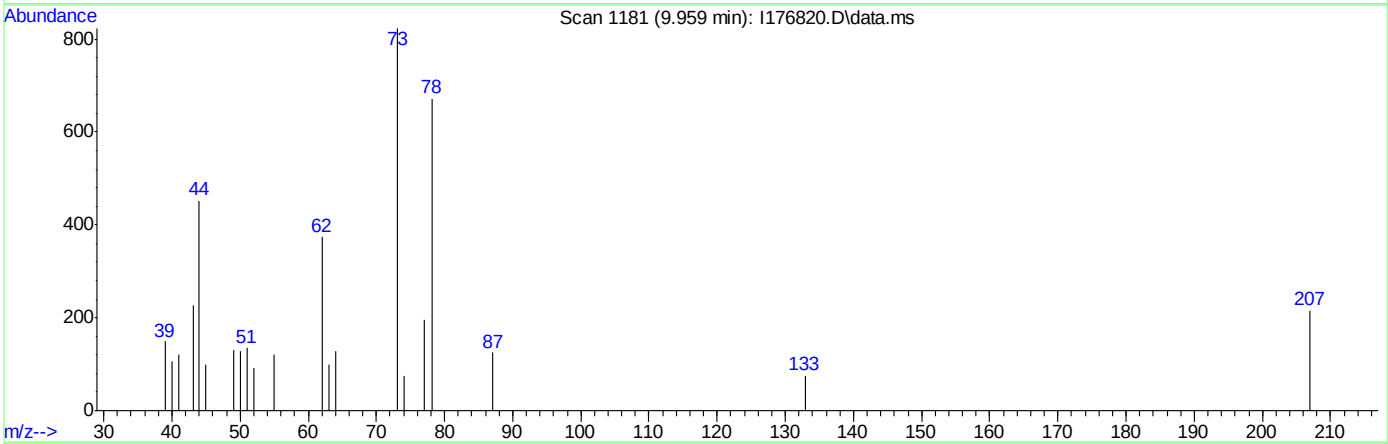
Ion	Exp%	Act%
73.00	100	100
57.10	21.80	21.18
43.10	23.70	27.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VIRAW40\
Data File : I176820.D
Acq On : 30 Aug 2012 12:50 pm
Operator : SCOTTM
Sample : IC7140-0.5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 04 15:59:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration





TIC: I176820.D\data.ms

(53) tert-amyl methyl ether

9.959min (-0.016) 0.43ug/L

response 2052

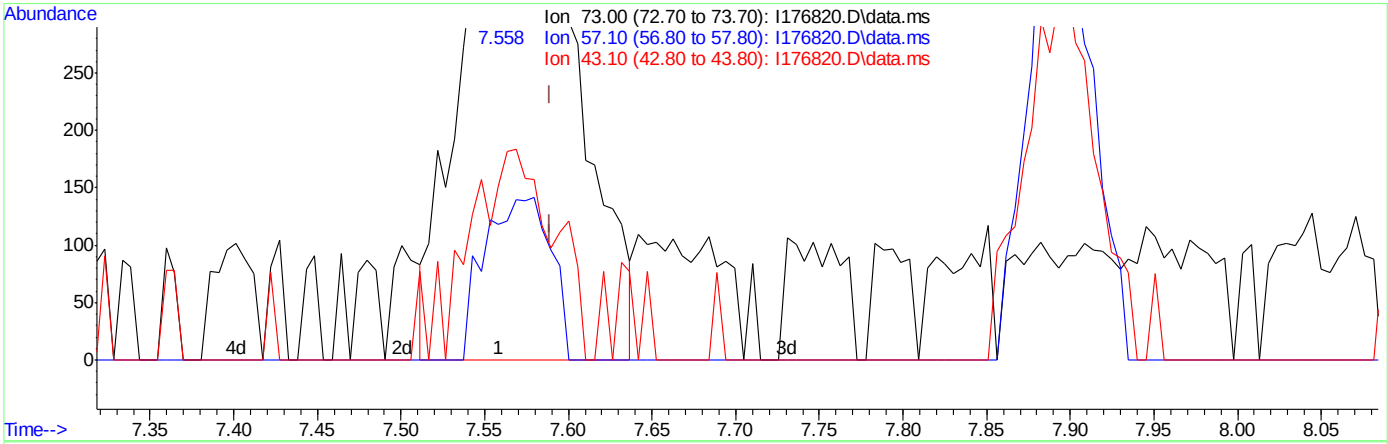
Ion	Exp%	Act%
73.00	100	100
87.00	25.00	18.57
55.00	20.00	19.88
0.00	0.00	0.00

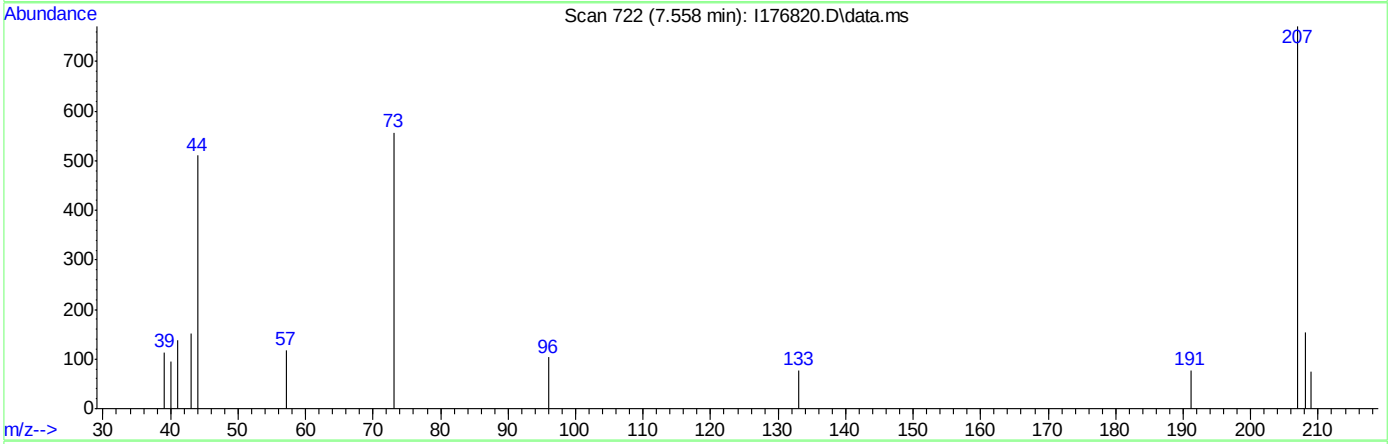
I176820.D edits: tert-amyl methyl ether

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176820.D
Acq On : 30 Aug 2012 12:50 pm
Operator : SCOTTM
Sample : IC7140-0.5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 10:45:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration





TIC: I176820.D\data.ms

(24) methyl tert butyl ether

7.558min (-0.031) 0.58ug/L m

response 2296

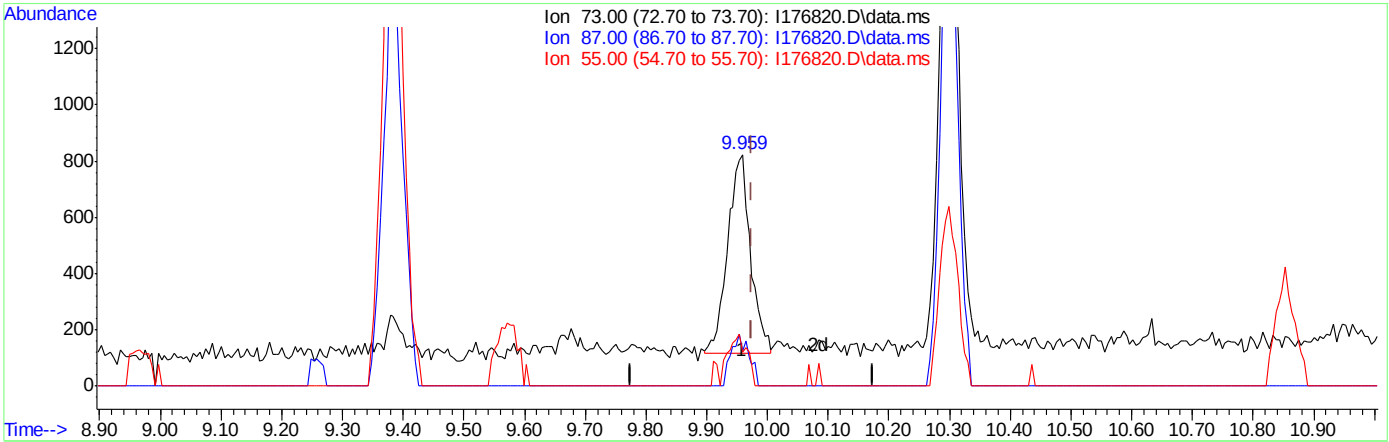
Ion	Exp%	Act%
73.00	100	100
57.10	21.80	21.18
43.10	23.70	27.11
0.00	0.00	0.00

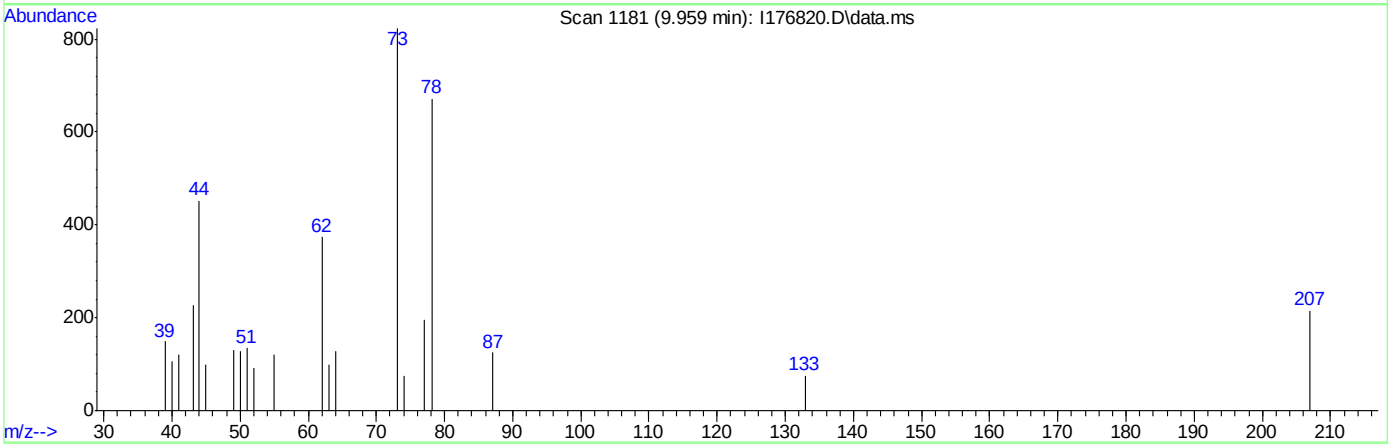
I176820.D edits: methyl tert butyl ether

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176820.D
Acq On : 30 Aug 2012 12:50 pm
Operator : SCOTTM
Sample : IC7140-0.5
Misc : MS34716,VI7140,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 31 10:45:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Aug 30 11:39:45 2012
Response via : Initial Calibration





TIC: I176820.D\data.ms

(53) tert-amyl methyl ether

9.959min (-0.016) 0.39ug/L m

response 1840

Ion	Exp%	Act%
73.00	100	100
87.00	25.00	20.71
55.00	20.00	22.17
0.00	0.00	0.00

I176820.D edits: tert-amyl methyl ether

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176822.D
Acq On : 30 Aug 2012 1:54 pm
Operator : SCOTTM
Sample : ICC7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 31 08:11:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	87567	50.00	ug/L		0.00
5) pentafluorobenzene	9.383	168	284887	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.299	114	402043	50.00	ug/L		0.00
75) chlorobenzene-d5	13.442	117	312833	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.738	152	148362	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.457	113	77507	48.14	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.28%				
47) 1,2-dichloroethane-d4...	9.875	65	76312	47.77	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.54%				
76) toluene-d8 (s)	11.941	98	274496	50.68	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 101.36%				
91) 4-bromofluorobenzene (s)	14.588	95	94500	49.38	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.76%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.328	59	33419	248.18	ug/L		100
3) iso-butyl alcohol	9.943	74	23567	502.96	ug/L	#	98
4) 1,4-dioxane	11.021	88	15167	1298.88	ug/L		100
6) chlorodifluoromethane	4.017	51	92848	51.13	ug/L		100
7) dichlorodifluoromethane	3.991	85	131926	55.79	ug/L		100
8) chloromethane	4.331	50	100584	50.14	ug/L		100
9) vinyl chloride	4.566	62	117756	54.68	ug/L		100
10) bromomethane	5.184	94	44092	51.42	ug/L		100
11) chloroethane	5.346	64	44861	51.92	ug/L		100
12) trichlorofluoromethane	5.769	101	127946	54.50	ug/L		100
13) ethyl ether	6.156	74	35229	47.00	ug/L		100
14) acrolein	6.423	56	94542	496.35	ug/L		100
15) freon 113	6.528	151	66768	51.83	ug/L		100
16) 1,1-dichloroethene	6.575	61	123940	55.54	ug/L		100
17) acetone	6.638	58	4983	12.50	ug/L		87
18) iodomethane	6.857	142	142154	54.03	ug/L	#	100
19) carbon disulfide	6.978	TIC	357003	53.24	ug/L		100
20) methyl acetate	7.066	74	8385	50.92	ug/L		100
21) allyl chloride	7.082	76	44739	53.84	ug/L		100
22) acetonitrile	7.077	41	174680	501.99	ug/L		100
23) methylene chloride	7.270	84	76491	48.39	ug/L		100
24) methyl tert butyl ether	7.574	73	186729	47.69	ug/L		100
25) acrylonitrile	7.595	53	82931	258.87	ug/L		100
26) trans-1,2-dichloroethene	7.626	96	81417	48.88	ug/L		100
27) hexane	7.893	57	92115	51.78	ug/L		100
28) di-isopropyl ether	8.133	45	230067	50.70	ug/L		100
29) vinyl acetate	8.181	65	44438	52.15	ug/L	#	100
30) 1,1-dichloroethane	8.181	63	139173	53.14	ug/L		100
31) chloroprene	8.280	53	103311	54.55	ug/L		100
32) ethyl tert-butyl ether	8.588	59	223264	51.60	ug/L		100
33) 2-butanone	8.860	72	6587	52.05	ug/L		100
34) ethyl acetate	8.866	45	6893	46.82	ug/L		100
35) 2,2-dichloropropane	8.897	77	132510	53.22	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176822.D
Acq On : 30 Aug 2012 1:54 pm
Operator : SCOTTM
Sample : ICC7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 31 08:11:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.897	96	84938	48.43	ug/L		100
37) methacrylonitrile	9.148	67	19869	51.25	ug/L		100
38) propionitrile	8.970	54	65679	52.15	ug/L		100
39) bromochloromethane	9.206	128	37299	52.23	ug/L		100
40) tetrahydrofuran	9.242	42	17120	48.39	ug/L		100
41) chloroform	9.258	83	138459	50.54	ug/L		100
42) tert-Butyl Formate	9.279	59	54108	52.22	ug/L		100
44) 1,1,1-trichloroethane	9.504	97	133630	55.67	ug/L		100
45) cyclohexane	9.572	84	127967	57.40	ug/L		100
48) carbon tetrachloride	9.703	117	117935	56.86	ug/L		100
49) 1,1-dichloropropene	9.676	75	112440	54.68	ug/L		100
50) isopropyl acetate	9.844	61	21202	50.31	ug/L		100
51) benzene	9.943	78	307125	52.14	ug/L		100
52) 2,2,4-trimethylpentane	9.917	57	290564	55.33	ug/L		100
53) tert-amyl methyl ether	9.954	73	193286	50.98	ug/L		100
54) 1,2-dichloroethane	9.964	62	90153	51.81	ug/L		100
55) heptane	10.079	57	57845	56.38	ug/L		100
56) n-butyl alcohol	10.419	56	77467	2670.68	ug/L		100
57) trichloroethene	10.644	95	82404	54.59	ug/L		100
58) ethyl acrylate	10.853	55	108487	52.71	ug/L	#	100
59) methyl methacrylate	10.900	69	34465	51.07	ug/L		100
60) 1,2-dichloropropane	10.916	63	72067	52.22	ug/L		100
61) methylcyclohexane	10.853	83	134543	55.54	ug/L		100
62) dibromomethane	11.078	93	40180	52.82	ug/L		100
63) bromodichloromethane	11.204	83	98766	53.20	ug/L		100
64) 2-nitropropane	11.429	41	19020	48.40	ug/L		99
65) 2-chloroethyl vinyl ether	11.434	63	125922	261.12	ug/L		100
66) epichlorohydrin	11.565	57	23280	249.55	ug/L		100
67) cis-1,3-dichloropropene	11.653	75	116746	52.76	ug/L		100
68) 4-methyl-2-pentanone	11.742	58	19266	52.16	ug/L		100
69) 3-methyl-1-butanol	11.758	70	28131	929.35	ug/L		100
70) toluene	12.014	91	317514	52.65	ug/L		100
71) trans-1,3-dichloropropene	12.213	75	98335	51.83	ug/L		100
72) ethyl methacrylate	12.192	69	67666	53.16	ug/L		100
73) 1,1,2-trichloroethane	12.428	83	44342	51.83	ug/L		100
74) 2-hexanone	12.590	58	17342	53.38	ug/L		100
77) tetrachloroethene	12.590	166	88424	55.05	ug/L		100
78) 1,3-dichloropropane	12.611	76	84711	51.41	ug/L		100
79) butyl acetate	12.652	56	31171	50.03	ug/L		100
80) 3,3-Dimethyl-1-Butanol	12.757	57	47328	526.84	ug/L		100
81) dibromochloromethane	12.877	129	67756	52.92	ug/L		100
82) 1,2-dibromoethane	13.024	107	53232	51.93	ug/L		100
83) chlorobenzene	13.474	112	193537	52.12	ug/L		100
84) 1,1,1,2-tetrachloroethane	13.536	131	70735	53.45	ug/L		100
85) ethylbenzene	13.521	91	339500	52.93	ug/L		100
86) m,p-xylene	13.625	106	259500	107.12	ug/L		100
87) o-xylene	14.044	106	124612	52.51	ug/L		100
88) styrene	14.054	104	199606	53.25	ug/L		100
89) bromoform	14.331	173	39830	52.55	ug/L		100
92) isopropylbenzene	14.378	105	331871	54.23	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176822.D
Acq On : 30 Aug 2012 1:54 pm
Operator : SCOTTM
Sample : ICC7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 31 08:11:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

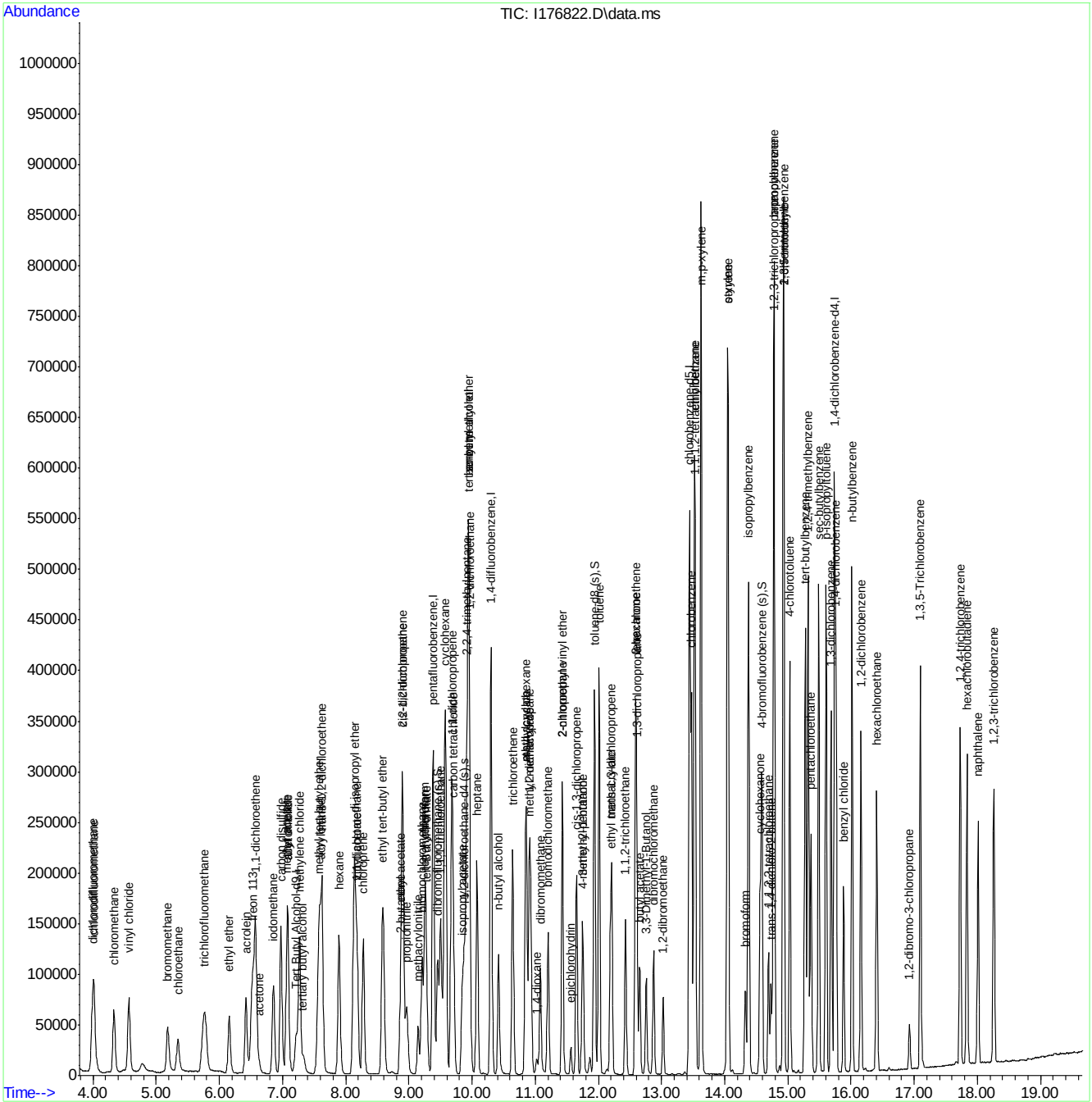
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.561	55	75258	502.49	ug/L	100
94) 1,1,2,2-tetrachloroethane	14.692	83	63498	51.90	ug/L	100
95) trans-1,4-dichloro-2-b...	14.734	53	16989	51.56	ug/L	100
96) 1,2,3-trichloropropane	14.771	110	14784	53.07	ug/L	100
97) n-propylbenzene	14.781	91	377500	52.54	ug/L	100
98) bromobenzene	14.781	156	78854	51.05	ug/L	99
99) 2-chlorotoluene	14.933	126	75923	52.40	ug/L	100
100) 4-chlorotoluene	15.032	91	232117	49.75	ug/L	100
101) 1,3,5-trimethylbenzene	14.928	105	271174	53.06	ug/L	100
102) tert-butylbenzene	15.278	119	231687	53.77	ug/L	100
103) pentachloroethane	15.367	167	50564	54.53	ug/L	100
104) 1,2,4-trimethylbenzene	15.320	105	267078	51.79	ug/L	100
105) sec-butylbenzene	15.487	105	352387	53.98	ug/L	100
106) p-isopropyltoluene	15.607	119	283493	52.75	ug/l	100
107) benzyl chloride	15.885	91	130926	50.56	ug/L	100
108) 1,3-dichlorobenzene	15.686	146	148576	50.56	ug/L	100
109) 1,4-dichlorobenzene	15.764	146	147552	49.59	ug/L	100
110) 1,2-dichlorobenzene	16.157	146	135719	50.41	ug/L	100
111) n-butylbenzene	16.015	92	153425	53.16	ug/L	100
112) hexachloroethane	16.408	119	56937	52.66	ug/L	100
113) 1,2-dibromo-3-chloropr...	16.926	157	11962	50.99	ug/L	100
114) 1,3,5-Trichlorobenzene	17.098	180	126231	51.39	ug/L	100
115) 1,2,4-trichlorobenzene	17.731	180	106707	49.83	ug/L	100
116) hexachlorobutadiene	17.836	225	71336	53.50	ug/L	100
117) naphthalene	18.013	128	184466	49.91	ug/L	100
118) 1,2,3-trichlorobenzene	18.259	180	89470	48.65	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176822.D
Acq On : 30 Aug 2012 1:54 pm
Operator : SCOTTM
Sample : ICC7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 31 08:11:12 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176823.D
Acq On : 30 Aug 2012 2:28 pm
Operator : SCOTTM
Sample : IC7140-100
Misc : MS34716,VI7140,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 08:11:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	88468	50.00	ug/L		0.00
5) pentafluorobenzene	9.384	168	290516	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.299	114	407052	50.00	ug/L		0.00
75) chlorobenzene-d5	13.442	117	317848	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.743	152	151289	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.452	113	151826	92.48	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 184.96%#				
47) 1,2-dichloroethane-d4...	9.875	65	150360	92.96	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 185.92%#				
76) toluene-d8 (s)	11.941	98	525295	95.45	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 190.90%#				
91) 4-bromofluorobenzene (s)	14.588	95	186239	95.44	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 190.88%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.328	59	67549	496.53	ug/L		99
3) iso-butyl alcohol	9.943	74	45999	971.70	ug/L	#	98
4) 1,4-dioxane	11.026	88	30418	2578.42	ug/L		97
6) chlorodifluoromethane	4.012	51	175478	94.76	ug/L		99
7) dichlorodifluoromethane	3.991	85	246055	102.03	ug/L		99
8) chloromethane	4.331	50	192454	94.08	ug/L		99
9) vinyl chloride	4.566	62	223233	101.65	ug/L		98
10) bromomethane	5.178	94	81796	93.54	ug/L		99
11) chloroethane	5.341	64	84366	95.75	ug/L		100
12) trichlorofluoromethane	5.764	101	241709	100.96	ug/L		100
13) ethyl ether	6.156	74	69307	90.68	ug/L		98
14) acrolein	6.418	56	189491	975.55	ug/L		99
15) freon 113	6.523	151	125615	95.62	ug/L		100
16) 1,1-dichloroethene	6.570	61	231900	101.91	ug/L		100
17) acetone	6.627	58	10107	24.86	ug/L	#	82
18) iodomethane	6.852	142	275625	102.73	ug/L	#	100
19) carbon disulfide	6.972	TIC	668412	97.74	ug/L		100
20) methyl acetate	7.061	74	16693	99.41	ug/L		98
21) allyl chloride	7.082	76	84948	100.25	ug/L		95
22) acetonitrile	7.077	41	339389	956.43	ug/L		99
23) methylene chloride	7.271	84	149960	93.03	ug/L		98
24) methyl tert butyl ether	7.569	73	375847	94.13	ug/L		100
25) acrylonitrile	7.590	53	165988	508.10	ug/L		100
26) trans-1,2-dichloroethene	7.621	96	155930	91.80	ug/L		99
27) hexane	7.893	57	171721	94.66	ug/L		99
28) di-isopropyl ether	8.133	45	457868	98.95	ug/L		96
29) vinyl acetate	8.181	65	86299	99.31	ug/L	#	100
30) 1,1-dichloroethane	8.181	63	267224	100.05	ug/L		99
31) chloroprene	8.275	53	200590	103.86	ug/L		99
32) ethyl tert-butyl ether	8.589	59	449469	101.86	ug/L		99
33) 2-butanone	8.861	72	13449	104.21	ug/L		89
34) ethyl acetate	8.866	45	13832	92.12	ug/L		97
35) 2,2-dichloropropane	8.897	77	250441	98.63	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176823.D
Acq On : 30 Aug 2012 2:28 pm
Operator : SCOTTM
Sample : IC7140-100
Misc : MS34716,VI7140,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 08:11:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) cis-1,2-dichloroethene	8.897	96	165742	92.67	ug/L	97
37) methacrylonitrile	9.143	67	40229	101.75	ug/L	100
38) propionitrile	8.970	54	130842	101.88	ug/L	95
39) bromochloromethane	9.206	128	74328	102.07	ug/L	99
40) tetrahydrofuran	9.237	42	34231	94.88	ug/L	100
41) chloroform	9.253	83	270542	96.83	ug/L	100
42) tert-Butyl Formate	9.279	59	111501	105.52	ug/L	98
44) 1,1,1-trichloroethane	9.504	97	253272	103.46	ug/L	98
45) cyclohexane	9.567	84	231229	101.71	ug/L	89
48) carbon tetrachloride	9.697	117	222722	106.05	ug/L	98
49) 1,1-dichloropropene	9.676	75	209893	100.81	ug/L	98
50) isopropyl acetate	9.844	61	43466	101.86	ug/L	99
51) benzene	9.938	78	587088	98.43	ug/L	99
52) 2,2,4-trimethylpentane	9.917	57	547259	102.93	ug/L	100
53) tert-amyl methyl ether	9.954	73	386873	100.79	ug/L	100
54) 1,2-dichloroethane	9.959	62	178632	101.39	ug/L	99
55) heptane	10.079	57	107189	103.19	ug/L	99
56) n-butyl alcohol	10.419	56	160003	5448.24	ug/L	98
57) trichloroethene	10.644	95	158556	103.75	ug/L	99
58) ethyl acrylate	10.853	55	202820	97.34	ug/L	100
59) methyl methacrylate	10.900	69	73489	107.56	ug/L	96
60) 1,2-dichloropropane	10.916	63	141669	101.40	ug/L	99
61) methylcyclohexane	10.853	83	251471	102.53	ug/L	99
62) dibromomethane	11.078	93	80223	104.17	ug/L	99
63) bromodichloromethane	11.204	83	196469	104.52	ug/L	99
64) 2-nitropropane	11.429	41	38462	96.66	ug/L	97
65) 2-chloroethyl vinyl ether	11.429	63	255453	523.20	ug/L	100
66) epichlorohydrin	11.565	57	47585	503.80	ug/L	99
67) cis-1,3-dichloropropene	11.653	75	230180	102.75	ug/L	99
68) 4-methyl-2-pentanone	11.742	58	39050	104.43	ug/L	100
69) 3-methyl-1-butanol	11.758	70	58891	1868.19	ug/L	100
70) toluene	12.014	91	606182	99.28	ug/L	100
71) trans-1,3-dichloropropene	12.213	75	195740	101.91	ug/L	100
72) ethyl methacrylate	12.192	69	138262	107.28	ug/L	100
73) 1,1,2-trichloroethane	12.433	83	88410	102.07	ug/L	99
74) 2-hexanone	12.590	58	35243	107.14	ug/L	99
77) tetrachloroethene	12.590	166	165788	101.60	ug/L	99
78) 1,3-dichloropropane	12.611	76	166641	99.54	ug/L	100
79) butyl acetate	12.652	56	64124	101.30	ug/L	100
80) 3,3-Dimethyl-1-Butanol	12.757	57	99451	1089.59	ug/L	99
81) dibromochloromethane	12.877	129	138528	106.49	ug/L	99
82) 1,2-dibromoethane	13.024	107	106903	102.65	ug/L	100
83) chlorobenzene	13.474	112	373586	99.01	ug/L	98
84) 1,1,1,2-tetrachloroethane	13.536	131	138776	103.22	ug/L	99
85) ethylbenzene	13.521	91	640658	98.30	ug/L	100
86) m,p-xylene	13.625	106	487304	197.99	ug/L	99
87) o-xylene	14.044	106	237409	98.46	ug/L	100
88) styrene	14.054	104	387010	101.61	ug/L	99
89) bromoform	14.326	173	82334	106.90	ug/L	99
92) isopropylbenzene	14.378	105	624427	100.06	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176823.D
Acq On : 30 Aug 2012 2:28 pm
Operator : SCOTTM
Sample : IC7140-100
Misc : MS34716,VI7140,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 08:11:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.561	55	162381	1063.23	ug/L	99
94) 1,1,2,2-tetrachloroethane	14.692	83	125415	100.53	ug/L	98
95) trans-1,4-dichloro-2-b...	14.734	53	34867	103.77	ug/L	99
96) 1,2,3-trichloropropane	14.771	110	28882	101.66	ug/L	99
97) n-propylbenzene	14.781	91	704371	96.14	ug/L	100
98) bromobenzene	14.781	156	154176	97.88	ug/L	99
99) 2-chlorotoluene	14.933	126	143283	96.97	ug/L	94
100) 4-chlorotoluene	15.032	91	452293	95.06	ug/L	99
101) 1,3,5-trimethylbenzene	14.928	105	508176	97.51	ug/L	99
102) tert-butylbenzene	15.278	119	434681	98.92	ug/L	98
103) pentachloroethane	15.367	167	100207	105.98	ug/L	99
104) 1,2,4-trimethylbenzene	15.320	105	514245	97.80	ug/L	100
105) sec-butylbenzene	15.487	105	654584	98.32	ug/L	99
106) p-isopropyltoluene	15.608	119	534428	97.51	ug/l	99
107) benzyl chloride	15.885	91	271114	102.67	ug/L	100
108) 1,3-dichlorobenzene	15.686	146	291706	97.35	ug/L	99
109) 1,4-dichlorobenzene	15.764	146	291462	96.06	ug/L	99
110) 1,2-dichlorobenzene	16.157	146	266565	97.10	ug/L	99
111) n-butylbenzene	16.015	92	289429	98.34	ug/L	99
112) hexachloroethane	16.408	119	110012	99.77	ug/L	99
113) 1,2-dibromo-3-chloropr...	16.926	157	23780	99.41	ug/L	99
114) 1,3,5-Trichlorobenzene	17.098	180	242238	96.71	ug/L	100
115) 1,2,4-trichlorobenzene	17.731	180	202922	92.92	ug/L	99
116) hexachlorobutadiene	17.836	225	131038	96.38	ug/L	100
117) naphthalene	18.013	128	345613	91.71	ug/L	100
118) 1,2,3-trichlorobenzene	18.264	180	164988	87.99	ug/L	100

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

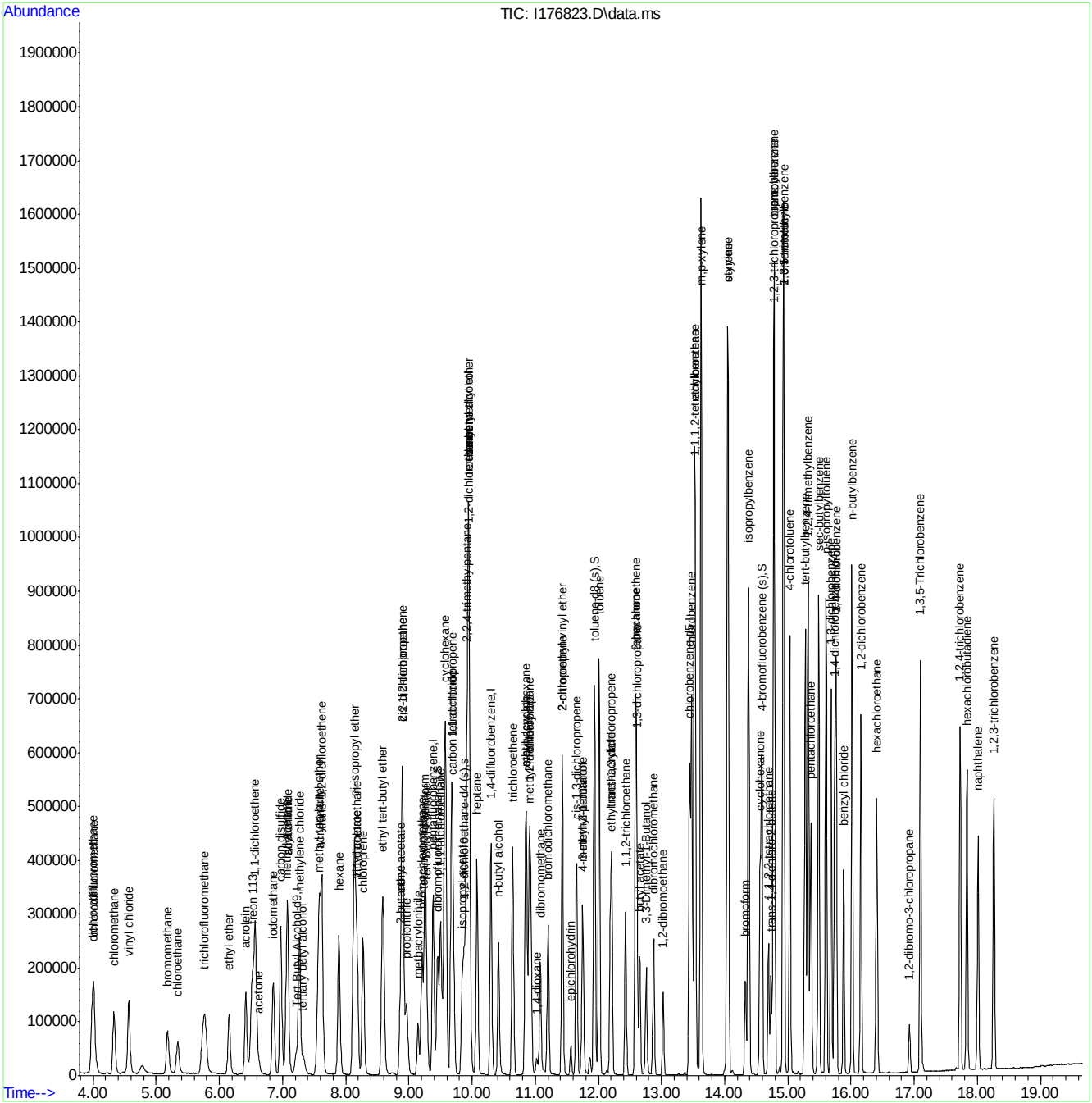
7.6.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176823.D
Acq On : 30 Aug 2012 2:28 pm
Operator : SCOTTM
Sample : IC7140-100
Misc : MS34716,VI7140,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 08:11:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176824.D
Acq On : 30 Aug 2012 2:59 pm
Operator : SCOTTM
Sample : IC7140-200
Misc : MS34716,VI7140,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:11:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.223	65	83657	50.00	ug/L		0.00
5) pentafluorobenzene	9.389	168	272815	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.304	114	387844	50.00	ug/L		0.00
75) chlorobenzene-d5	13.447	117	299769	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.743	152	143896	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.457	113	318584	206.65	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 413.30%#				
47) 1,2-dichloroethane-d4...	9.875	65	313121	203.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 406.32%#				
76) toluene-d8 (s)	11.941	98	1079814	208.04	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 416.08%#				
91) 4-bromofluorobenzene (s)	14.588	95	384979	207.43	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 414.86%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.333	59	140491	1092.08	ug/L		99
3) iso-butyl alcohol	9.943	74	94941	2120.91	ug/L	#	99
4) 1,4-dioxane	11.026	88	63876	5725.91	ug/L		97
6) chlorodifluoromethane	4.017	51	371560	213.67	ug/L		99
7) dichlorodifluoromethane	3.996	85	505783	223.34	ug/L		98
8) chloromethane	4.341	50	389618	202.83	ug/L		100
9) vinyl chloride	4.577	62	451237	218.80	ug/L		100
10) bromomethane	5.189	94	162988	198.48	ug/L		100
11) chloroethane	5.346	64	169782	205.20	ug/L		99
12) trichlorofluoromethane	5.775	101	492456	219.05	ug/L		99
13) ethyl ether	6.156	74	144322	201.08	ug/L		99
14) acrolein	6.423	56	386831	2120.73	ug/L		99
15) freon 113	6.533	151	275167	223.06	ug/L		99
16) 1,1-dichloroethene	6.575	61	505752	236.68	ug/L		99
17) acetone	6.632	58	21775	57.04	ug/L	#	79
18) iodomethane	6.857	142	585036	232.19	ug/L	#	100
19) carbon disulfide	6.978	TIC	1451863	226.08	ug/L		99
20) methyl acetate	7.066	74	34755	220.41	ug/L		99
21) allyl chloride	7.082	76	181835	228.52	ug/L		99
22) acetonitrile	7.082	41	710170	2131.18	ug/L		97
23) methylene chloride	7.270	84	312166	206.23	ug/L		99
24) methyl tert butyl ether	7.574	73	771916	205.86	ug/L		100
25) acrylonitrile	7.595	53	338923	1104.77	ug/L		100
26) trans-1,2-dichloroethene	7.626	96	328413	205.89	ug/L		99
27) hexane	7.893	57	370313	217.37	ug/L		99
28) di-isopropyl ether	8.133	45	947747	218.11	ug/L		98
29) vinyl acetate	8.180	65	181246	222.11	ug/L	#	100
30) 1,1-dichloroethane	8.180	63	560038	223.29	ug/L		99
31) chloroprene	8.280	53	432898	238.68	ug/L		100
32) ethyl tert-butyl ether	8.594	59	935058	225.66	ug/L		99
33) 2-butanone	8.860	72	27992	230.97	ug/L		89
34) ethyl acetate	8.866	45	28365	201.17	ug/L		76
35) 2,2-dichloropropane	8.902	77	535983	224.78	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176824.D
Acq On : 30 Aug 2012 2:59 pm
Operator : SCOTTM
Sample : IC7140-200
Misc : MS34716,VI7140,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:11:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.902	96	343845	204.73	ug/L		97
37) methacrylonitrile	9.148	67	83759	225.59	ug/L		100
38) propionitrile	8.975	54	271040	224.74	ug/L		88
39) bromochloromethane	9.211	128	156049	228.20	ug/L		98
40) tetrahydrofuran	9.242	42	70406	207.81	ug/L		99
41) chloroform	9.258	83	568634	216.74	ug/L		99
42) tert-Butyl Formate	9.284	59	232309	234.12	ug/L		99
44) 1,1,1-trichloroethane	9.509	97	552268	240.25	ug/L		99
45) cyclohexane	9.572	84	506830	237.40	ug/L		96
48) carbon tetrachloride	9.702	117	490744	245.24	ug/L		99
49) 1,1-dichloropropene	9.676	75	455702	229.72	ug/L		99
50) isopropyl acetate	9.844	61	91243	224.42	ug/L		99
51) benzene	9.943	78	1202563	211.61	ug/L		99
52) 2,2,4-trimethylpentane	9.917	57	1175186	231.97	ug/L		100
53) tert-amyl methyl ether	9.959	73	789024	215.74	ug/L		100
54) 1,2-dichloroethane	9.964	62	368640	219.59	ug/L		99
55) heptane	10.079	57	232618	235.03	ug/L		99
56) n-butyl alcohol	10.419	56	336009	12008.04	ug/L		99
57) trichloroethene	10.644	95	341568	234.58	ug/L		99
58) ethyl acrylate	10.853	55	442732	223.00	ug/L		100
59) methyl methacrylate	10.900	69	147045	225.88	ug/L		97
60) 1,2-dichloropropane	10.916	63	292733	219.90	ug/L		99
61) methylcyclohexane	10.858	83	544645	233.07	ug/L		99
62) dibromomethane	11.083	93	166765	227.27	ug/L		96
63) bromodichloromethane	11.204	83	415074	231.74	ug/L		100
64) 2-nitropropane	11.428	41	79264	209.08	ug/L	#	93
65) 2-chloroethyl vinyl ether	11.434	63	528674	1136.42	ug/L		100
66) epichlorohydrin	11.564	57	98906	1099.02	ug/L		99
67) cis-1,3-dichloropropene	11.653	75	477141	223.53	ug/L		99
68) 4-methyl-2-pentanone	11.742	58	79962	224.43	ug/L		96
69) 3-methyl-1-butanol	11.758	70	124386	4080.42	ug/L		100
70) toluene	12.014	91	1248626	214.63	ug/L		99
71) trans-1,3-dichloropropene	12.213	75	402721	220.05	ug/L		99
72) ethyl methacrylate	12.192	69	290177	236.31	ug/L		100
73) 1,1,2-trichloroethane	12.433	83	181836	220.33	ug/L		100
74) 2-hexanone	12.590	58	73295	233.86	ug/L		99
77) tetrachloroethene	12.595	166	353261	229.53	ug/L		99
78) 1,3-dichloropropane	12.611	76	339220	214.85	ug/L		100
79) butyl acetate	12.652	56	133609	223.79	ug/L		97
80) 3,3-Dimethyl-1-Butanol	12.757	57	212229	2465.43	ug/L		99
81) dibromochloromethane	12.877	129	288795	235.40	ug/L		100
82) 1,2-dibromoethane	13.029	107	220625	224.62	ug/L		100
83) chlorobenzene	13.473	112	763080	214.44	ug/L		98
84) 1,1,1,2-tetrachloroethane	13.536	131	280833	221.47	ug/L		99
85) ethylbenzene	13.521	91	1297762	211.13	ug/L		100
86) m,p-xylene	13.630	106	957125	412.33	ug/L		99
87) o-xylene	14.044	106	472325	207.71	ug/L		100
88) styrene	14.054	104	767774	213.74	ug/L		97
89) bromoform	14.331	173	177318	244.12	ug/L		99
92) isopropylbenzene	14.378	105	1283426	216.23	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176824.D
Acq On : 30 Aug 2012 2:59 pm
Operator : SCOTTM
Sample : IC7140-200
Misc : MS34716,VI7140,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:11:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration

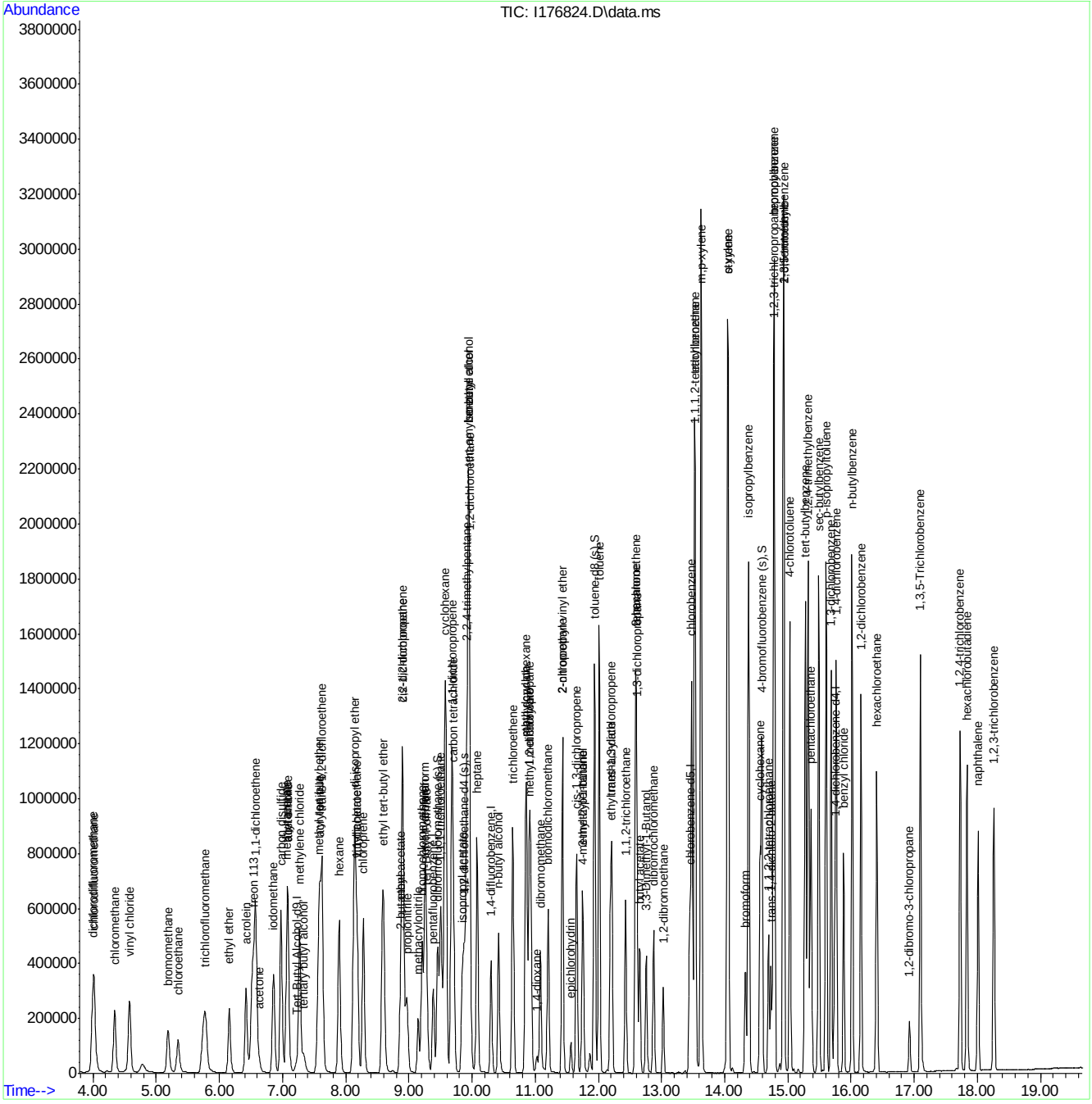
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cyclohexanone	14.561	55	333612	2296.64 ug/L	99
94) 1,1,2,2-tetrachloroethane	14.692	83	259364	218.58 ug/L	100
95) trans-1,4-dichloro-2-b...	14.734	53	74261	232.38 ug/L	96
96) 1,2,3-trichloropropane	14.771	110	57352	212.25 ug/L	98
97) n-propylbenzene	14.786	91	1407608	201.99 ug/L	98
98) bromobenzene	14.781	156	305974	204.24 ug/L	99
99) 2-chlorotoluene	14.938	126	284897	202.72 ug/L	98
100) 4-chlorotoluene	15.032	91	935076	206.63 ug/L	99
101) 1,3,5-trimethylbenzene	14.933	105	1018967	205.57 ug/L	98
102) tert-butylbenzene	15.278	119	901453	215.69 ug/L	97
103) pentachloroethane	15.367	167	213104	236.96 ug/L	97
104) 1,2,4-trimethylbenzene	15.325	105	1051021	210.14 ug/L	99
105) sec-butylbenzene	15.487	105	1350393	213.26 ug/L	98
106) p-isopropyltoluene	15.607	119	1099815	210.98 ug/l	98
107) benzyl chloride	15.885	91	569968	226.92 ug/L	99
108) 1,3-dichlorobenzene	15.686	146	601141	210.93 ug/L	98
109) 1,4-dichlorobenzene	15.770	146	600335	208.03 ug/L	99
110) 1,2-dichlorobenzene	16.157	146	543590	208.19 ug/L	99
111) n-butylbenzene	16.015	92	599584	214.19 ug/L	99
112) hexachloroethane	16.408	119	235870	224.91 ug/L	98
113) 1,2-dibromo-3-chloropr...	16.925	157	48996	215.34 ug/L	99
114) 1,3,5-Trichlorobenzene	17.098	180	487142	204.47 ug/L	100
115) 1,2,4-trichlorobenzene	17.731	180	404112	194.55 ug/L	99
116) hexachlorobutadiene	17.836	225	262500	202.99 ug/L	100
117) naphthalene	18.013	128	684670	191.01 ug/L	100
118) 1,2,3-trichlorobenzene	18.264	180	325112	182.28 ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176824.D
Acq On : 30 Aug 2012 2:59 pm
Operator : SCOTTM
Sample : IC7140-200
Misc : MS34716,VI7140,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:11:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:09:56 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176826.D
Acq On : 30 Aug 2012 4:02 pm
Operator : SCOTTM
Sample : IC7140-20
Misc : MS34716,VI7140,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:19:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:17:24 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.213	65	82787	50.00	ug/L		0.00
5) pentafluorobenzene	9.384	168	259916	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.299	114	364835	50.00	ug/L		0.00
75) chlorobenzene-d5	13.442	117	287662	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.738	152	137527	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.452	113	29450	20.05	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 40.10%#				
47) 1,2-dichloroethane-d4...	9.875	65	29989	20.69	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 41.38%#				
76) toluene-d8 (s)	11.941	98	101791	20.44	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 40.88%#				
91) 4-bromofluorobenzene (s)	14.588	95	36583	20.62	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 41.24%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.328	59	13039	102.42	ug/L		100
3) iso-butyl alcohol	9.943	74	8780	198.20	ug/L	#	95
4) 1,4-dioxane	11.026	88	5765	522.21	ug/L		98
6) chlorodifluoromethane	4.007	51	32695	19.74	ug/L		98
7) dichlorodifluoromethane	3.986	85	45654	21.16	ug/L		98
8) chloromethane	4.321	50	36637	20.02	ug/L		97
9) vinyl chloride	4.556	62	41633	21.19	ug/L		99
10) bromomethane	5.173	94	15355	19.63	ug/L		98
11) chloroethane	5.335	64	16091	20.41	ug/L		97
12) trichlorofluoromethane	5.759	101	45211	21.11	ug/L		99
13) ethyl ether	6.151	74	13831	20.23	ug/L		96
14) acrolein	6.413	56	38348	220.67	ug/L		96
15) freon 113	6.517	151	24090	20.50	ug/L		99
16) 1,1-dichloroethene	6.570	61	43389	21.31	ug/L		98
17) acetone	6.627	58	1840	18.59	ug/L		84
18) iodomethane	6.852	142	51680	21.53	ug/L	#	100
19) carbon disulfide	6.972	TIC	124969	20.43	ug/L		100
20) methyl acetate	7.056	74	3201	21.31	ug/L		96
21) allyl chloride	7.082	76	15987	21.09	ug/L		98
22) acetonitrile	7.077	41	65250	205.53	ug/L		98
23) methylene chloride	7.265	84	28711	19.91	ug/L		99
24) methyl tert butyl ether	7.569	73	73112	20.47	ug/L		100
25) acrylonitrile	7.590	53	32224	110.25	ug/L		99
26) trans-1,2-dichloroethene	7.621	96	28579	18.81	ug/L		99
27) hexane	7.893	57	32743	20.17	ug/L		100
28) di-isopropyl ether	8.134	45	86632	20.93	ug/L		98
29) vinyl acetate	8.181	65	16136	20.76	ug/L	#	100
30) 1,1-dichloroethane	8.175	63	50512	21.14	ug/L		100
31) chloroprene	8.280	53	36627	21.20	ug/L		99
32) ethyl tert-butyl ether	8.583	59	85479	21.65	ug/L		99
33) 2-butanone	8.861	72	2458	21.29	ug/L		89
34) ethyl acetate	8.866	45	2780	20.70	ug/L		96
35) 2,2-dichloropropane	8.892	77	46977	20.68	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176826.D
Acq On : 30 Aug 2012 4:02 pm
Operator : SCOTTM
Sample : IC7140-20
Misc : MS34716,VI7140,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:19:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:17:24 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.897	96	31956	19.97	ug/L		98
37) methacrylonitrile	9.148	67	7599	21.48	ug/L		96
38) propionitrile	8.970	54	25502	22.19	ug/L		100
39) bromochloromethane	9.206	128	14180	21.77	ug/L		98
40) tetrahydrofuran	9.242	42	6877	21.31	ug/L		98
41) chloroform	9.253	83	51079	20.44	ug/L		99
42) tert-Butyl Formate	9.279	59	20904	22.11	ug/L		99
44) 1,1,1-trichloroethane	9.499	97	47146	21.53	ug/L		98
45) cyclohexane	9.567	84	43929	21.60	ug/L		89
48) carbon tetrachloride	9.697	117	40731	21.64	ug/L		100
49) 1,1-dichloropropene	9.676	75	39286	21.05	ug/L		98
50) isopropyl acetate	9.844	61	8449	22.09	ug/L		98
51) benzene	9.938	78	111968	20.95	ug/L		99
52) 2,2,4-trimethylpentane	9.912	57	100989	21.19	ug/L		99
53) tert-amyl methyl ether	9.948	73	74531	21.66	ug/L		99
54) 1,2-dichloroethane	9.964	62	34335	21.74	ug/L		99
55) heptane	10.079	57	20190	21.69	ug/L		99
56) n-butyl alcohol	10.419	56	29512	1121.19	ug/L		100
57) trichloroethene	10.644	95	29790	21.75	ug/L		98
58) ethyl acrylate	10.853	55	38074	20.39	ug/L	#	99
59) methyl methacrylate	10.900	69	13791	22.52	ug/L		99
60) 1,2-dichloropropane	10.916	63	26604	21.25	ug/L		100
61) methylcyclohexane	10.853	83	47630	21.67	ug/L		99
62) dibromomethane	11.078	93	15342	22.23	ug/L		98
63) bromodichloromethane	11.204	83	36307	21.55	ug/L		100
64) 2-nitropropane	11.429	41	7410	20.78	ug/L		100
65) 2-chloroethyl vinyl ether	11.434	63	49391	112.86	ug/L		99
66) epichlorohydrin	11.565	57	9068	107.12	ug/L		99
67) cis-1,3-dichloropropene	11.654	75	43529	21.68	ug/L		98
68) 4-methyl-2-pentanone	11.742	58	7395	22.06	ug/L		99
69) 3-methyl-1-butanol	11.758	70	10868	424.39	ug/L		99
70) toluene	12.009	91	116504	21.29	ug/L		100
71) trans-1,3-dichloropropene	12.213	75	37558	21.82	ug/L		98
72) ethyl methacrylate	12.192	69	25651	22.21	ug/L		99
73) 1,1,2-trichloroethane	12.433	83	17205	22.16	ug/L		96
74) 2-hexanone	12.590	58	6698	22.72	ug/L		99
77) tetrachloroethene	12.590	166	31642	21.42	ug/L		98
78) 1,3-dichloropropane	12.611	76	32827	21.67	ug/L		100
79) butyl acetate	12.652	56	12435	21.70	ug/L		97
80) 3,3-Dimethyl-1-Butanol	12.757	57	18395	222.69	ug/L		99
81) dibromochloromethane	12.872	129	25298	21.49	ug/L		99
82) 1,2-dibromoethane	13.024	107	20385	21.63	ug/L		99
83) chlorobenzene	13.474	112	72530	21.24	ug/L		98
84) 1,1,1,2-tetrachloroethane	13.531	131	26469	21.75	ug/L		97
85) ethylbenzene	13.521	91	124618	21.13	ug/L		100
86) m,p-xylene	13.625	106	96250	43.21	ug/L		100
87) o-xylene	14.044	106	47095	21.58	ug/L		97
88) styrene	14.054	104	74646	21.65	ug/L		99
89) bromoform	14.331	173	14978	21.49	ug/L		100
92) isopropylbenzene	14.378	105	121254	21.37	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176826.D
Acq On : 30 Aug 2012 4:02 pm
Operator : SCOTTM
Sample : IC7140-20
Misc : MS34716,VI7140,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:19:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:17:24 2012
Response via : Initial Calibration

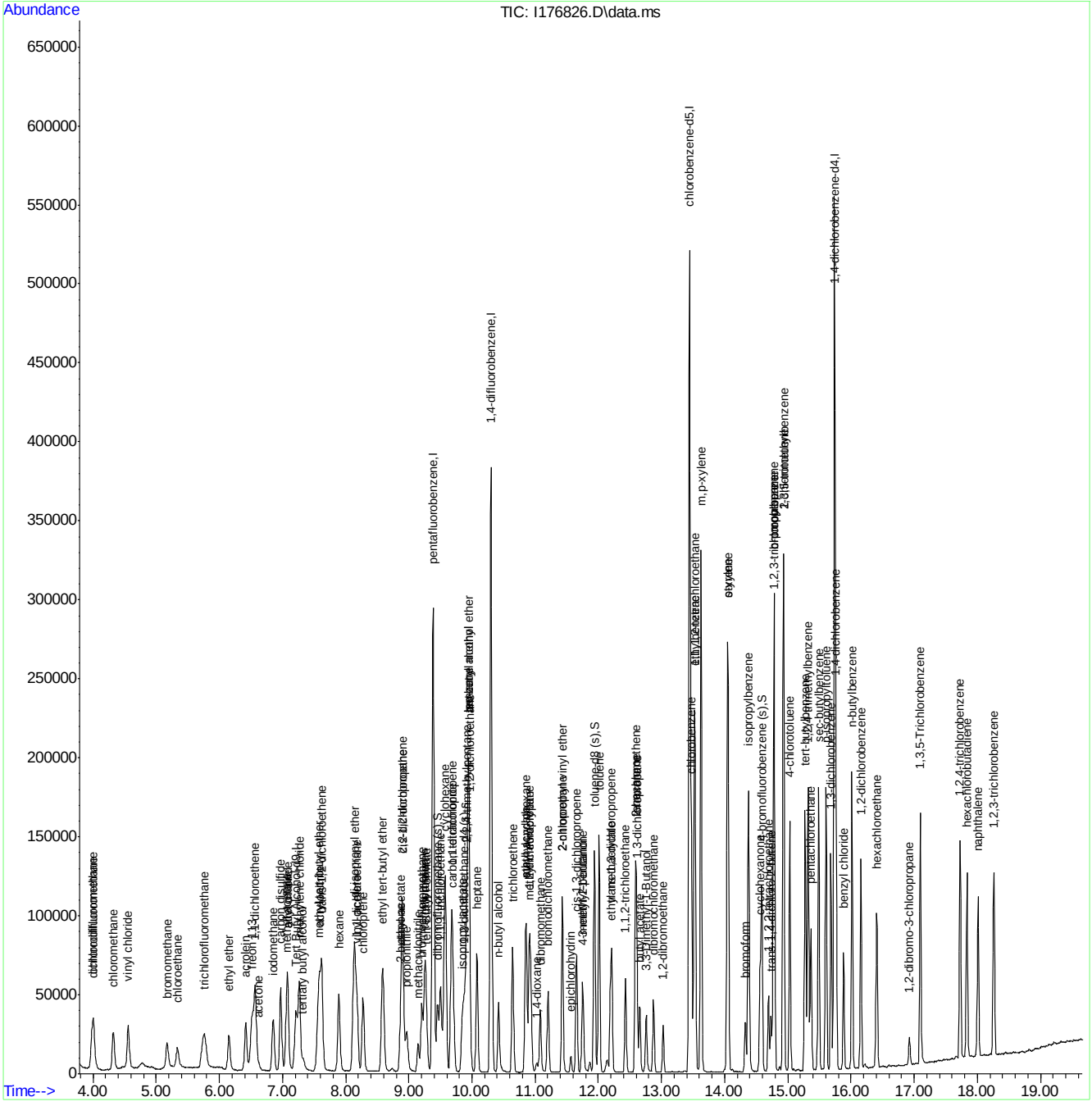
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.562	55	27895	200.93	ug/L	99
94) 1,1,2,2-tetrachloroethane	14.692	83	24462	21.57	ug/L	99
95) trans-1,4-dichloro-2-b...	14.734	53	6680	21.87	ug/L	98
96) 1,2,3-trichloropropane	14.771	110	5695	22.05	ug/L	98
97) n-propylbenzene	14.781	91	140494	21.09	ug/L	100
98) bromobenzene	14.781	156	30430	21.25	ug/L	99
99) 2-chlorotoluene	14.933	126	28876	21.50	ug/L	98
100) 4-chlorotoluene	15.032	91	87561	20.25	ug/L	99
101) 1,3,5-trimethylbenzene	14.928	105	100659	21.25	ug/L	99
102) tert-butylbenzene	15.273	119	83794	20.98	ug/L	99
103) pentachloroethane	15.367	167	18765	21.83	ug/L	98
104) 1,2,4-trimethylbenzene	15.320	105	99878	20.89	ug/L	98
105) sec-butylbenzene	15.487	105	128419	21.22	ug/L	99
106) p-isopropyltoluene	15.602	119	104146	20.90	ug/l	100
107) benzyl chloride	15.885	91	51417	21.42	ug/L	100
108) 1,3-dichlorobenzene	15.686	146	57254	21.02	ug/L	100
109) 1,4-dichlorobenzene	15.764	146	57224	20.75	ug/L	99
110) 1,2-dichlorobenzene	16.157	146	52401	21.00	ug/L	99
111) n-butylbenzene	16.016	92	56241	21.02	ug/L	98
112) hexachloroethane	16.408	119	20509	20.46	ug/L	98
113) 1,2-dibromo-3-chloropr...	16.926	157	4690	21.57	ug/L	97
114) 1,3,5-Trichlorobenzene	17.098	180	49447	21.72	ug/L	99
115) 1,2,4-trichlorobenzene	17.731	180	43628	21.98	ug/L	97
116) hexachlorobutadiene	17.836	225	27332	22.11	ug/L	99
117) naphthalene	18.013	128	80143	23.39	ug/L	99
118) 1,2,3-trichlorobenzene	18.265	180	38683	22.69	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176826.D
Acq On : 30 Aug 2012 4:02 pm
Operator : SCOTTM
Sample : IC7140-20
Misc : MS34716,VI7140,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:19:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 08:17:24 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176827.D
Acq On : 30 Aug 2012 4:32 pm
Operator : SCOTTM
Sample : ICV7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 09:40:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Sep 05 09:40:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	81374	50.00	ug/L		0.07
5) pentafluorobenzene	9.389	168	284458	50.00	ug/L		0.03
46) 1,4-difluorobenzene	10.304	114	406663	50.00	ug/L		0.03
75) chlorobenzene-d5	13.442	117	317539	50.00	ug/L		-0.01
90) 1,4-dichlorobenzene-d4	15.738	152	150022	50.00	ug/L		-0.07
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.457	113	77359	47.70	ug/L		0.04
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.40%				
47) 1,2-dichloroethane-d4...	9.875	65	76219	47.02	ug/L		0.04
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.04%				
76) toluene-d8 (s)	11.941	98	272732	48.95	ug/L		0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 97.90%				
91) 4-bromofluorobenzene (s)	14.588	95	95655	49.15	ug/L		-0.03
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.30%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.333	59	30239	241.65	ug/L		98
3) iso-butyl alcohol	9.943	74	23439	538.30	ug/L	#	95
4) 1,4-dioxane	11.026	88	13562	1249.82	ug/L		98
6) chlorodifluoromethane	4.017	51	95001	52.40	ug/L		100
7) dichlorodifluoromethane	3.996	85	122691	51.96	ug/L		99
8) chloromethane	4.336	50	93072	46.47	ug/L		99
9) vinyl chloride	4.566	62	108856	50.62	ug/L		99
10) bromomethane	5.189	94	42100	49.17	ug/L		98
11) chloroethane	5.346	64	42040	48.73	ug/L		99
12) trichlorofluoromethane	5.769	101	120294	51.32	ug/L		99
13) ethyl ether	6.156	74	34901	46.64	ug/L		98
14) acrolein	6.423	56	92152	484.53	ug/L		97
15) freon 113	6.533	151	63817	49.61	ug/L		100
16) 1,1-dichloroethene	6.575	61	118849	53.34	ug/L		98
17) acetone	6.638	58	4424	40.84	ug/L		96
18) iodomethane	6.857	142	139672	53.16	ug/L	#	100
19) carbon disulfide	6.978	TIC	343811	51.35	ug/L		100
20) methyl acetate	7.066	74	7875	47.90	ug/L		99
21) allyl chloride	7.087	76	43852	52.86	ug/L		96
22) acetonitrile	7.082	41	169143	486.81	ug/L		97
23) methylene chloride	7.270	84	76272	48.32	ug/L		100
24) methyl tert butyl ether	7.574	73	359864	92.04	ug/L		99
25) acrylonitrile	7.595	53	82421	257.67	ug/L		98
26) trans-1,2-dichloroethene	7.626	96	79065	47.54	ug/L		99
27) hexane	7.898	57	106699	60.07	ug/L		99
28) di-isopropyl ether	8.133	45	225729	49.82	ug/L		97
29) vinyl acetate	8.181	65	44058	51.78	ug/L	#	100
30) 1,1-dichloroethane	8.181	63	135540	51.83	ug/L		99
31) chloroprene	8.280	53	112906	59.70	ug/L		100
32) ethyl tert-butyl ether	8.588	59	215743	49.93	ug/L		99
33) 2-butanone	8.866	72	6284	49.73	ug/L		98
34) ethyl acetate	8.871	45	6707	45.62	ug/L	#	52
35) 2,2-dichloropropane	8.902	77	127422	51.25	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176827.D
Acq On : 30 Aug 2012 4:32 pm
Operator : SCOTTM
Sample : ICV7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 09:40:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Sep 05 09:40:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.897	96	84110	48.03	ug/L		98
37) methacrylonitrile	9.148	67	19290	49.83	ug/L		98
38) propionitrile	8.976	54	62743	498.95	ug/L		91
39) bromochloromethane	9.211	128	37303	52.32	ug/L		98
40) tetrahydrofuran	9.242	42	16746	47.41	ug/L		100
41) chloroform	9.258	83	136998	50.08	ug/L		100
42) tert-Butyl Formate	9.284	59	54789	52.96	ug/L		100
44) 1,1,1-trichloroethane	9.504	97	129249	53.92	ug/L		99
45) cyclohexane	9.572	84	121616	54.63	ug/L		98
48) carbon tetrachloride	9.703	117	114150	54.41	ug/L		99
49) 1,1-dichloropropene	9.676	75	108848	52.33	ug/L		99
50) isopropyl acetate	9.844	61	21104	49.50	ug/L	#	68
51) benzene	9.943	78	301158	50.54	ug/L		99
52) 2,2,4-trimethylpentane	9.917	57	282599	53.20	ug/L		100
53) tert-amyl methyl ether	9.954	73	195410	50.96	ug/L		99
54) 1,2-dichloroethane	9.964	62	89580	50.89	ug/L		99
55) heptane	10.079	57	63557	61.24	ug/L		99
56) n-butyl alcohol	10.419	56	68898	2266.02	ug/L		100
57) trichloroethene	10.644	95	80608	52.80	ug/L		98
58) ethyl acrylate	10.853	55	111942	53.77	ug/L	#	100
59) methyl methacrylate	10.905	69	34333	50.30	ug/L		87
60) 1,2-dichloropropane	10.916	63	70853	50.76	ug/L		98
61) methylcyclohexane	10.853	83	139800	57.06	ug/L		99
62) dibromomethane	11.078	93	39979	51.96	ug/L		98
63) bromodichloromethane	11.204	83	97169	51.74	ug/L		99
64) 2-nitropropane	11.429	41	18497	46.53	ug/L		96
65) 2-chloroethyl vinyl ether	11.434	63	126208	258.74	ug/L		99
66) epichlorohydrin	11.565	57	22853	242.18	ug/L		100
67) cis-1,3-dichloropropene	11.653	75	115004	51.38	ug/L		99
68) 4-methyl-2-pentanone	11.742	58	18355	49.13	ug/L		99
69) 3-methyl-1-butanol	11.758	70	25916	850.91	ug/L		100
70) toluene	12.014	91	311850	51.12	ug/L		100
71) trans-1,3-dichloropropene	12.213	75	98151	51.15	ug/L		99
72) ethyl methacrylate	12.192	69	67035	52.06	ug/L		99
73) 1,1,2-trichloroethane	12.433	83	43736	50.54	ug/L		99
74) 2-hexanone	12.590	58	16464	47.89	ug/L		97
77) tetrachloroethene	12.595	166	87187	53.48	ug/L		98
78) 1,3-dichloropropane	12.611	76	83561	49.96	ug/L		99
79) butyl acetate	12.658	56	30552	48.31	ug/L		97
80) 3,3-Dimethyl-1-Butanol	12.757	57	44191	484.63	ug/L		99
81) dibromochloromethane	12.877	129	67002	51.56	ug/L		100
82) 1,2-dibromoethane	13.024	107	52924	50.87	ug/L		100
83) chlorobenzene	13.474	112	190743	50.60	ug/L		100
84) 1,1,1,2-tetrachloroethane	13.536	131	70146	52.22	ug/L		99
85) ethylbenzene	13.521	91	333034	51.15	ug/L		100
86) m,p-xylene	13.625	106	254179	103.37	ug/L		99
87) o-xylene	14.044	106	122960	51.05	ug/L		99
88) styrene	14.054	104	196708	51.70	ug/L		100
89) bromoform	14.331	173	39460	51.29	ug/L		100
92) isopropylbenzene	14.378	105	324754	52.48	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176827.D
Acq On : 30 Aug 2012 4:32 pm
Operator : SCOTTM
Sample : ICV7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 09:40:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Sep 05 09:40:01 2012
Response via : Initial Calibration

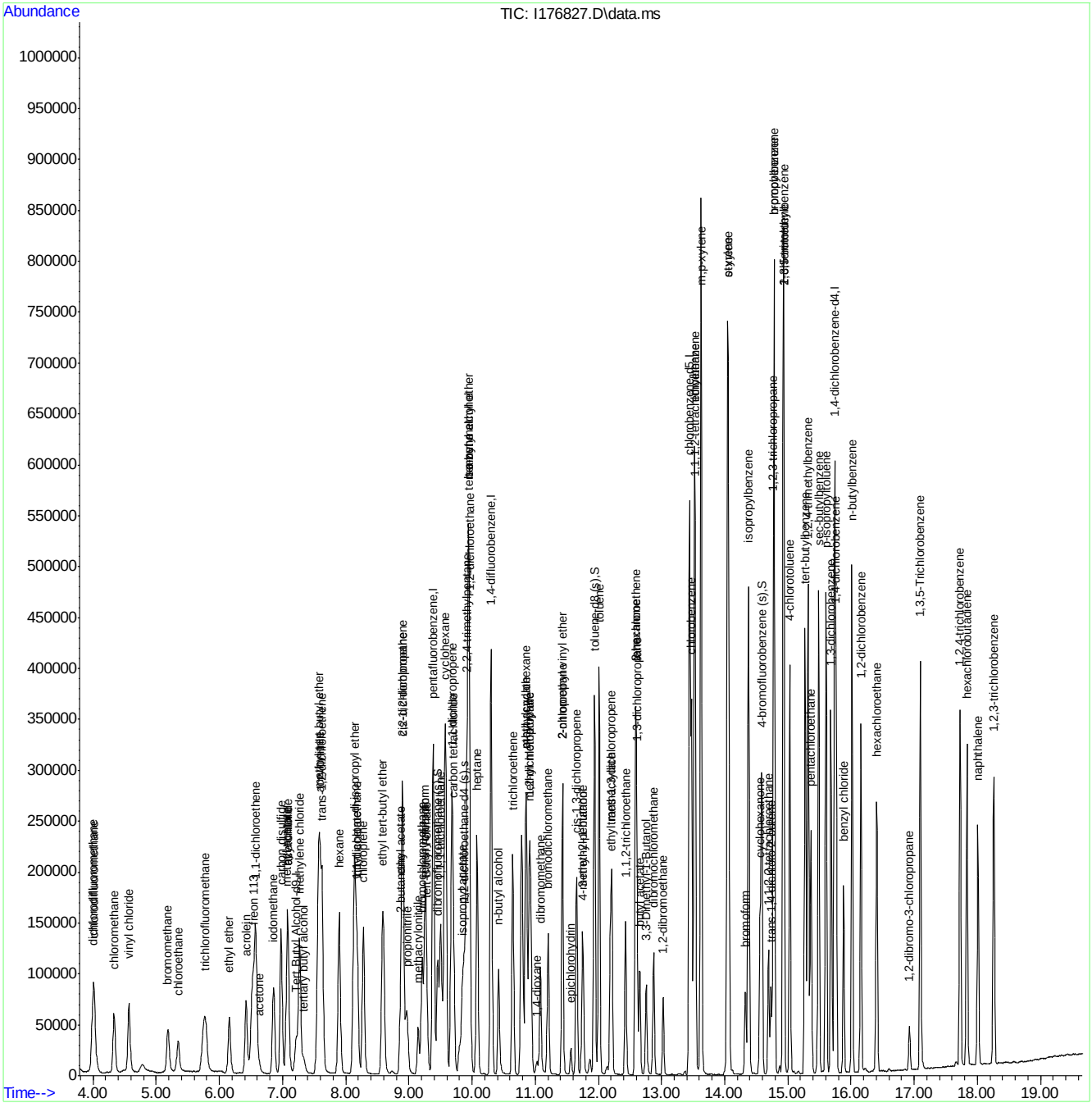
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.561	55	65531	432.70	ug/L	99
94) 1,1,2,2-tetrachloroethane	14.692	83	61537	49.74	ug/L	99
95) trans-1,4-dichloro-2-b...	14.734	53	16732	50.22	ug/L	98
96) 1,2,3-trichloropropane	14.765	110	14362	50.98	ug/L	97
97) n-propylbenzene	14.781	91	371923	51.19	ug/L	100
98) bromobenzene	14.781	156	78898	50.51	ug/L	99
99) 2-chlorotoluene	14.933	126	75103	51.26	ug/L	99
100) 4-chlorotoluene	15.032	91	230340	48.82	ug/L	99
101) 1,3,5-trimethylbenzene	14.928	105	267160	51.70	ug/L	100
102) tert-butylbenzene	15.273	119	223068	51.19	ug/L	99
103) pentachloroethane	15.367	167	49794	53.11	ug/L	100
104) 1,2,4-trimethylbenzene	15.320	105	265978	51.01	ug/L	100
105) sec-butylbenzene	15.487	105	344476	52.18	ug/L	100
106) p-isopropyltoluene	15.607	119	279814	51.49	ug/l	100
107) benzyl chloride	15.885	91	129829	49.58	ug/L	100
108) 1,3-dichlorobenzene	15.686	146	148584	50.01	ug/L	100
109) 1,4-dichlorobenzene	15.764	146	147871	49.15	ug/L	99
110) 1,2-dichlorobenzene	16.157	146	134620	49.45	ug/L	99
111) n-butylbenzene	16.015	92	150897	51.70	ug/L	99
112) hexachloroethane	16.408	119	55619	50.87	ug/L	99
113) 1,2-dibromo-3-chloropr...	16.925	157	11542	48.66	ug/L	99
114) 1,3,5-Trichlorobenzene	17.098	180	127199	51.21	ug/L	100
115) 1,2,4-trichlorobenzene	17.726	180	108570	50.13	ug/L	99
116) hexachlorobutadiene	17.836	225	73331	54.39	ug/L	100
117) naphthalene	18.013	128	185971	49.76	ug/L	100
118) 1,2,3-trichlorobenzene	18.259	180	93383	50.22	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7140\
Data File : I176827.D
Acq On : 30 Aug 2012 4:32 pm
Operator : SCOTTM
Sample : ICV7140-50
Misc : MS34716,VI7140,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 09:40:07 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Sep 05 09:40:01 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB15104

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176851.D
Acq On : 31 Aug 2012 9:50 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34940,VI7141,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 10:17:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 10:17:33 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.218	65	94081	50.00	ug/L		0.00
5) pentafluorobenzene	9.383	168	274039	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.299	114	391152	50.00	ug/L		0.00
75) chlorobenzene-d5	13.442	117	302130	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.738	152	141982	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.451	113	77454	49.58	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.16%				
47) 1,2-dichloroethane-d4...	9.870	65	81446	52.24	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.48%				
76) toluene-d8 (s)	11.941	98	274672	51.81	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 103.62%				
91) 4-bromofluorobenzene (s)	14.588	95	91822	49.86	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.72%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.333	59	35510	245.45	ug/L		99
3) iso-butyl alcohol	9.943	74	24080	478.33	ug/L	#	95
4) 1,4-dioxane	11.026	88	15632	1246.01	ug/L		97
6) chlorodifluoromethane	4.017	51	90255	51.67	ug/L		99
7) dichlorodifluoromethane	3.996	85	126634	55.67	ug/L		100
8) chloromethane	4.331	50	99871	51.76	ug/L		99
9) vinyl chloride	4.566	62	115488	55.75	ug/L		99
10) bromomethane	5.184	94	43487	52.72	ug/L		99
11) chloroethane	5.346	64	44142	53.11	ug/L		99
12) trichlorofluoromethane	5.769	101	122676	54.32	ug/L		98
13) ethyl ether	6.156	74	37601	52.15	ug/L		99
14) acrolein	6.423	56	103191	563.20	ug/L		98
15) freon 113	6.533	151	65756	53.07	ug/L		99
16) 1,1-dichloroethene	6.570	61	126075	58.74	ug/L		98
17) acetone	6.632	58	5623	53.88	ug/L	#	74
18) iodomethane	6.857	142	144146	56.95	ug/L	#	100
19) carbon disulfide	6.978	TIC	363970	56.42	ug/L		100
20) methyl acetate	7.066	74	8831	55.76	ug/L		99
21) allyl chloride	7.082	76	45699	57.18	ug/L		99
22) acetonitrile	7.077	41	181621	542.60	ug/L		98
23) methylene chloride	7.270	84	80752	53.11	ug/L		99
24) methyl tert butyl ether	7.569	73	198815	52.78	ug/L		99
25) acrylonitrile	7.595	53	90453	293.53	ug/L		99
26) trans-1,2-dichloroethene	7.626	96	82350	51.40	ug/L		99
27) hexane	7.893	57	91675	53.57	ug/L		100
28) di-isopropyl ether	8.133	45	234783	53.79	ug/L		99
29) vinyl acetate	8.181	65	46017	56.14	ug/L	#	100
30) 1,1-dichloroethane	8.181	63	142644	56.62	ug/L		99
31) chloroprene	8.280	53	101905	55.93	ug/L		99
32) ethyl tert-butyl ether	8.588	59	229288	55.09	ug/L		99
33) 2-butanone	8.860	72	6953	57.11	ug/L		98
34) ethyl acetate	8.866	45	7175	50.66	ug/L		99
35) 2,2-dichloropropane	8.897	77	134507	56.16	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176851.D
Acq On : 31 Aug 2012 9:50 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34940,VI7141,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 10:17:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 10:17:33 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.897	96	87037	51.59	ug/L		98
37) methacrylonitrile	9.148	67	21293	57.09	ug/L		99
38) propionitrile	8.970	54	71713	591.97	ug/L		98
39) bromochloromethane	9.211	128	39348	57.28	ug/L		98
40) tetrahydrofuran	9.242	42	18685	54.91	ug/L		98
41) chloroform	9.258	83	142667	54.13	ug/L		99
42) tert-Butyl Formate	9.279	59	56437	56.62	ug/L		100
44) 1,1,1-trichloroethane	9.504	97	134616	58.30	ug/L		99
45) cyclohexane	9.572	84	128594	59.96	ug/L		98
48) carbon tetrachloride	9.703	117	118472	58.70	ug/L		99
49) 1,1-dichloropropene	9.676	75	113622	56.79	ug/L		99
50) isopropyl acetate	9.844	61	22521	54.92	ug/L		99
51) benzene	9.938	78	315471	55.04	ug/L		99
52) 2,2,4-trimethylpentane	9.917	57	290959	56.95	ug/L		99
53) tert-amyl methyl ether	9.954	73	198557	53.83	ug/L		100
54) 1,2-dichloroethane	9.959	62	94164	55.62	ug/L		99
55) heptane	10.079	57	57080	57.18	ug/L		99
56) n-butyl alcohol	10.419	56	82469	2922.29	ug/L		99
57) trichloroethene	10.644	95	83531	56.88	ug/L		99
58) ethyl acrylate	10.853	55	108183	54.03	ug/L	#	100
59) methyl methacrylate	10.900	69	38952	59.33	ug/L		96
60) 1,2-dichloropropane	10.916	63	75746	56.42	ug/L		98
61) methylcyclohexane	10.853	83	133559	56.67	ug/L		99
62) dibromomethane	11.078	93	42533	57.47	ug/L		97
63) bromodichloromethane	11.204	83	102519	56.75	ug/L		99
64) 2-nitropropane	11.429	41	20316	53.13	ug/L		95
65) 2-chloroethyl vinyl ether	11.429	63	140085	298.57	ug/L		99
66) epichlorohydrin	11.564	57	24765	272.85	ug/L		99
67) cis-1,3-dichloropropene	11.653	75	121555	56.46	ug/L		99
68) 4-methyl-2-pentanone	11.742	58	20731	57.69	ug/L		100
69) 3-methyl-1-butanol	11.758	70	30009	1014.17	ug/L		99
70) toluene	12.009	91	321502	54.80	ug/L		100
71) trans-1,3-dichloropropene	12.213	75	102885	55.74	ug/L		98
72) ethyl methacrylate	12.192	69	71162	57.46	ug/L		98
73) 1,1,2-trichloroethane	12.427	83	46765	56.18	ug/L		100
74) 2-hexanone	12.590	58	18209	57.61	ug/L		98
77) tetrachloroethene	12.590	166	87697	56.54	ug/L		98
78) 1,3-dichloropropane	12.611	76	89385	56.17	ug/L		99
79) butyl acetate	12.652	56	32439	53.91	ug/L		97
80) 3,3-Dimethyl-1-Butanol	12.757	57	49683	572.65	ug/L		99
81) dibromochloromethane	12.872	129	69728	56.39	ug/L		100
82) 1,2-dibromoethane	13.024	107	55674	56.24	ug/L		100
83) chlorobenzene	13.474	112	195890	54.62	ug/L		99
84) 1,1,1,2-tetrachloroethane	13.536	131	72103	56.42	ug/L		98
85) ethylbenzene	13.521	91	340279	54.93	ug/L		99
86) m,p-xylene	13.625	106	259324	110.84	ug/L		99
87) o-xylene	14.044	106	127007	55.42	ug/L		97
88) styrene	14.054	104	199649	55.14	ug/L		100
89) bromoform	14.326	173	40666	55.55	ug/L		98
92) isopropylbenzene	14.378	105	330816	56.49	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176851.D
Acq On : 31 Aug 2012 9:50 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34940,VI7141,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 10:17:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 10:17:33 2012
Response via : Initial Calibration

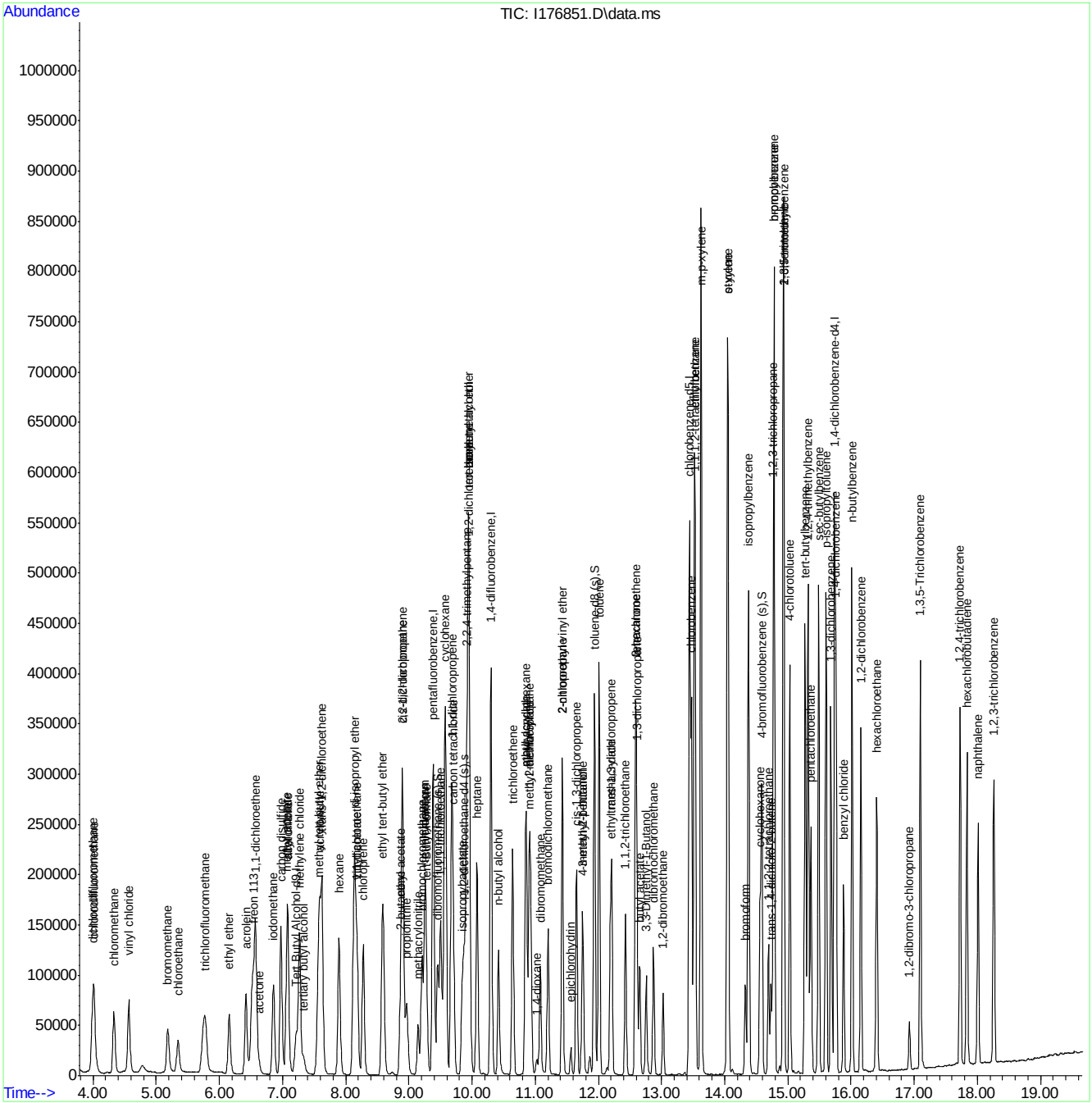
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.556	55	72406	505.17	ug/L	97
94) 1,1,2,2-tetrachloroethane	14.692	83	66854	57.10	ug/L	99
95) trans-1,4-dichloro-2-b...	14.734	53	18018	57.14	ug/L	97
96) 1,2,3-trichloropropane	14.765	110	15479	58.06	ug/L	99
97) n-propylbenzene	14.781	91	378936	55.11	ug/L	100
98) bromobenzene	14.781	156	79040	53.47	ug/L	99
99) 2-chlorotoluene	14.933	126	76008	54.81	ug/L	98
100) 4-chlorotoluene	15.032	91	234285	52.47	ug/L	99
101) 1,3,5-trimethylbenzene	14.928	105	271980	55.61	ug/L	100
102) tert-butylbenzene	15.278	119	228140	55.32	ug/L	100
103) pentachloroethane	15.367	167	51987	58.59	ug/L	99
104) 1,2,4-trimethylbenzene	15.320	105	268665	54.44	ug/L	100
105) sec-butylbenzene	15.487	105	352374	56.40	ug/L	100
106) p-isopropyltoluene	15.607	119	283312	55.08	ug/l	100
107) benzyl chloride	15.885	91	133963	54.05	ug/L	100
108) 1,3-dichlorobenzene	15.686	146	148809	52.92	ug/L	99
109) 1,4-dichlorobenzene	15.764	146	149796	52.61	ug/L	100
110) 1,2-dichlorobenzene	16.157	146	137167	53.24	ug/L	100
111) n-butylbenzene	16.015	92	154112	55.80	ug/L	99
112) hexachloroethane	16.408	119	56533	54.63	ug/L	100
113) 1,2-dibromo-3-chloropr...	16.925	157	12559	55.94	ug/L	97
114) 1,3,5-Trichlorobenzene	17.098	180	128309	54.58	ug/L	100
115) 1,2,4-trichlorobenzene	17.731	180	109806	53.58	ug/L	99
116) hexachlorobutadiene	17.836	225	73143	57.32	ug/L	99
117) naphthalene	18.013	128	190068	53.74	ug/L	99
118) 1,2,3-trichlorobenzene	18.259	180	92985	52.84	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7141\
Data File : I176851.D
Acq On : 31 Aug 2012 9:50 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34940,VI7141,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 10:17:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 31 10:17:33 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176883.D
Acq On : 1 Sep 2012 9:07 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 04 10:21:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	7.137	65	81278	50.00	ug/L		0.00
5) pentafluorobenzene	9.360	168	283072	50.00	ug/L		0.00
46) 1,4-difluorobenzene	10.280	114	410361	50.00	ug/L		0.00
75) chlorobenzene-d5	13.450	117	294375	50.00	ug/L		0.00
90) 1,4-dichlorobenzene-d4	15.808	152	145197	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.417	113	83279	51.61	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.22%				
47) 1,2-dichloroethane-d4...	9.836	65	86288	52.75	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.50%				
76) toluene-d8 (s)	11.928	98	283674	54.92	ug/L		0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 109.84%				
91) 4-bromofluorobenzene (s)	14.611	95	92069	48.88	ug/L		0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.76%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.257	59	27108	216.89	ug/L		99
3) iso-butyl alcohol	9.909	74	21280	489.29	ug/L	#	96
4) 1,4-dioxane	11.007	88	12157	1121.66	ug/L		95
6) chlorodifluoromethane	3.789	51	84164	46.65	ug/L		96
7) dichlorodifluoromethane	3.768	85	108800	46.30	ug/L		99
8) chloromethane	4.108	50	93735	47.03	ug/L		99
9) vinyl chloride	4.354	62	100362	46.90	ug/L		99
10) bromomethane	4.992	94	37235	43.70	ug/L		98
11) chloroethane	5.165	64	36794	42.86	ug/L		96
12) trichlorofluoromethane	5.599	101	99418	42.62	ug/L		100
13) ethyl ether	6.023	74	32752	43.98	ug/L		93
14) acrolein	6.284	56	95973	507.09	ug/L		97
15) freon 113	6.399	151	55018	42.98	ug/L		95
16) 1,1-dichloroethene	6.436	61	114905	51.82	ug/L		99
17) acetone	6.504	58	5596	51.91	ug/L		90
18) iodomethane	6.718	142	124807	47.74	ug/L	#	100
19) carbon disulfide	6.833	TIC	332222	49.86	ug/L		99
20) methyl acetate	6.964	74	7418	45.34	ug/L	#	84
21) allyl chloride	6.975	76	39862	48.28	ug/L		92
22) acetonitrile	6.969	41	173873	502.88	ug/L		95
23) methylene chloride	7.168	84	71505	45.53	ug/L		95
24) methyl tert butyl ether	7.487	73	170097	43.72	ug/L		98
25) acrylonitrile	7.508	53	79535	249.86	ug/L		100
26) trans-1,2-dichloroethene	7.534	96	72840	44.01	ug/L		94
27) hexane	7.822	57	82977	46.94	ug/L		99
28) di-isopropyl ether	8.078	45	230606	51.15	ug/L		97
29) vinyl acetate	8.110	65	42393	50.07	ug/L	#	100
30) 1,1-dichloroethane	8.110	63	132540	50.93	ug/L		100
31) chloroprene	8.209	53	94938	50.45	ug/L		98
32) ethyl tert-butyl ether	8.544	59	212792	49.49	ug/L		97
33) 2-butanone	8.816	72	6130	48.75	ug/L		91
34) ethyl acetate	8.831	45	6552	44.79	ug/L	#	1
35) 2,2-dichloropropane	8.842	77	118786	48.01	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176883.D
Acq On : 1 Sep 2012 9:07 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 04 10:21:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.847	96	76143	43.69	ug/L		96
37) methacrylonitrile	9.103	67	18168	47.16	ug/L	#	93
38) propionitrile	8.925	54	59795	477.84	ug/L		89
39) bromochloromethane	9.161	128	32826	46.26	ug/L		90
40) tetrahydrofuran	9.192	42	16098	45.79	ug/L		96
41) chloroform	9.218	83	127683	46.90	ug/L		99
42) tert-Butyl Formate	9.239	59	51136	49.67	ug/L		99
44) 1,1,1-trichloroethane	9.459	97	117671	49.33	ug/L		100
45) cyclohexane	9.522	84	108359	48.92	ug/L	#	66
48) carbon tetrachloride	9.658	117	102545	48.43	ug/L		99
49) 1,1-dichloropropene	9.637	75	100266	47.77	ug/L		99
50) isopropyl acetate	9.825	61	20686	48.09	ug/L		94
51) benzene	9.903	78	282619	47.00	ug/L		98
52) 2,2,4-trimethylpentane	9.888	57	260142	48.53	ug/L		100
53) tert-amyl methyl ether	9.930	73	177755	45.94	ug/L		99
54) 1,2-dichloroethane	9.930	62	82784	46.61	ug/L		98
55) heptane	10.060	57	50473	48.20	ug/L		98
56) n-butyl alcohol	10.416	56	62801	2121.19	ug/L		98
57) trichloroethene	10.620	95	73379	47.63	ug/L		97
58) ethyl acrylate	10.829	55	94598	45.03	ug/L	#	100
59) methyl methacrylate	10.892	69	30526	44.32	ug/L	#	65
60) 1,2-dichloropropane	10.892	63	68307	48.50	ug/L		97
61) methylcyclohexane	10.829	83	114174	46.18	ug/L		95
62) dibromomethane	11.054	93	36288	46.74	ug/L		95
63) bromodichloromethane	11.185	83	88019	46.45	ug/L		99
64) 2-nitropropane	11.415	41	16481	41.09	ug/L	#	64
65) 2-chloroethyl vinyl ether	11.426	63	130894	265.93	ug/L		97
66) epichlorohydrin	11.556	57	20513	215.43	ug/L		99
67) cis-1,3-dichloropropene	11.645	75	104226	46.15	ug/L		97
68) 4-methyl-2-pentanone	11.739	58	17009	45.12	ug/L		99
69) 3-methyl-1-butanol	11.760	70	21631	712.47	ug/L		90
70) toluene	12.001	91	271258	44.07	ug/L		100
71) trans-1,3-dichloropropene	12.210	75	86105	44.47	ug/L		95
72) ethyl methacrylate	12.194	69	57945	44.60	ug/L		95
73) 1,1,2-trichloroethane	12.424	83	38616	44.22	ug/L		98
74) 2-hexanone	12.597	58	15347	46.28	ug/L		99
77) tetrachloroethene	12.587	166	69538	46.01	ug/L		98
78) 1,3-dichloropropane	12.608	76	73409	47.35	ug/L		99
79) butyl acetate	12.665	56	28242	48.17	ug/L		99
80) 3,3-Dimethyl-1-Butanol	12.770	57	38313	453.23	ug/L		97
81) dibromochloromethane	12.874	129	54833	45.51	ug/L		100
82) 1,2-dibromoethane	13.021	107	43697	45.30	ug/L		100
83) chlorobenzene	13.481	112	156380	44.75	ug/L		97
84) 1,1,1,2-tetrachloroethane	13.544	131	57117	45.87	ug/L		99
85) ethylbenzene	13.533	91	280239	46.43	ug/L		98
86) m,p-xylene	13.638	106	208126	91.30	ug/L		94
87) o-xylene	14.062	106	100515	45.01	ug/L		99
88) styrene	14.072	104	158571	44.95	ug/L		99
89) bromoform	14.344	173	30791	43.17	ug/L		99
92) isopropylbenzene	14.402	105	266193	44.45	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176883.D
Acq On : 1 Sep 2012 9:07 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 04 10:21:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration

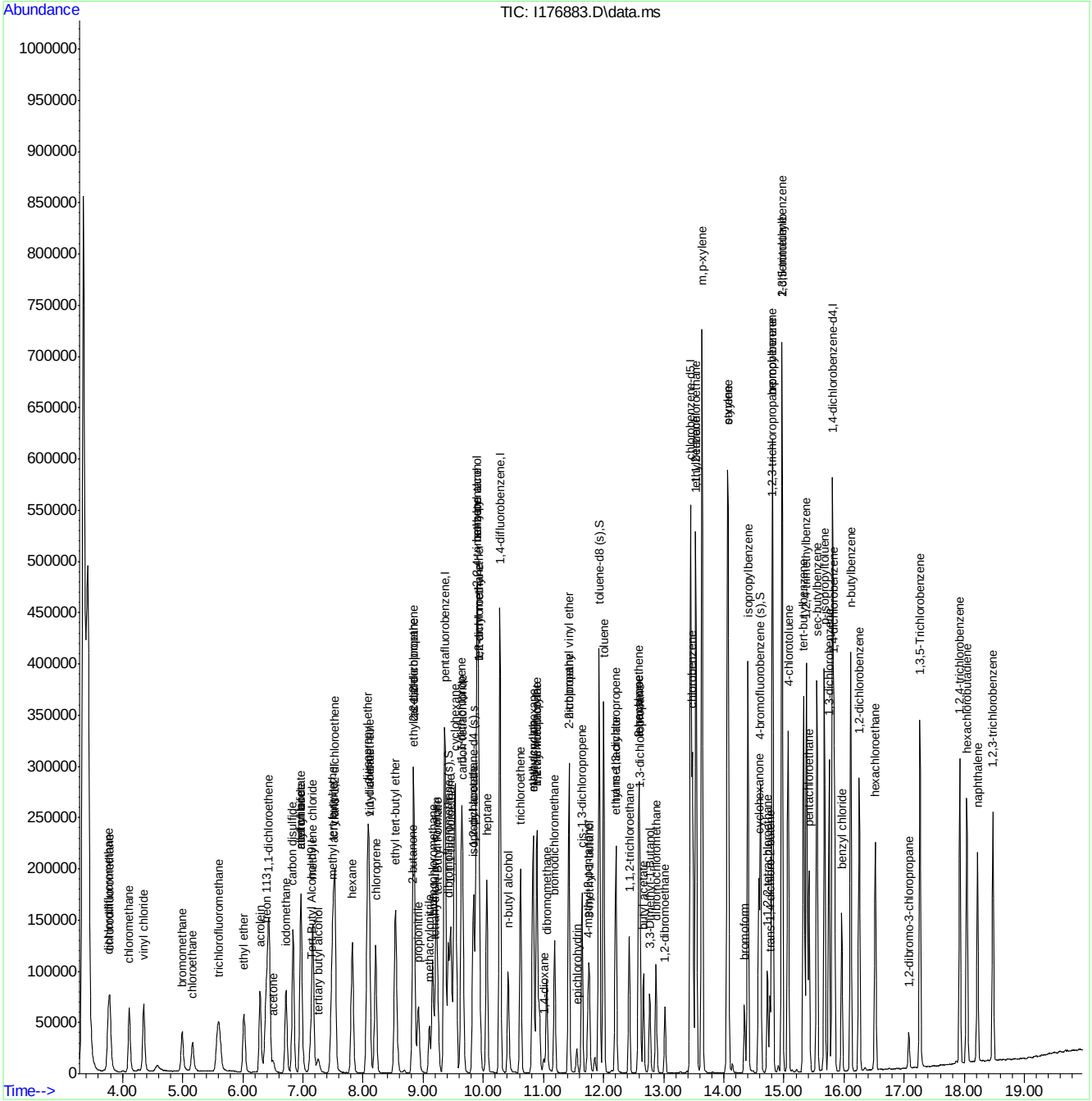
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) cyclohexanone	14.585	55	79438	541.96	ug/L		98
94) 1,1,2,2-tetrachloroethane	14.726	83	52332	43.71	ug/L		100
95) trans-1,4-dichloro-2-b...	14.768	53	14506	44.99	ug/L		95
96) 1,2,3-trichloropropane	14.799	110	11626	42.64	ug/L		97
97) n-propylbenzene	14.815	91	311828	44.35	ug/L		99
98) bromobenzene	14.809	156	62795	41.54	ug/L	#	90
99) 2-chlorotoluene	14.966	126	61106	43.09	ug/L		93
100) 4-chlorotoluene	15.071	91	195165	42.74	ug/L		98
101) 1,3,5-trimethylbenzene	14.966	105	222327	44.45	ug/L		99
102) tert-butylbenzene	15.327	119	188930	44.80	ug/L		97
103) pentachloroethane	15.416	167	41823	46.09	ug/L		99
104) 1,2,4-trimethylbenzene	15.374	105	223688	44.32	ug/L		100
105) sec-butylbenzene	15.552	105	294385	46.07	ug/L		100
106) p-isopropyltoluene	15.672	119	236268	44.92	ug/l		99
107) benzyl chloride	15.960	91	116199	45.85	ug/L		99
108) 1,3-dichlorobenzene	15.751	146	124967	43.46	ug/L		99
109) 1,4-dichlorobenzene	15.835	146	125836	43.21	ug/L		99
110) 1,2-dichlorobenzene	16.253	146	117291	44.52	ug/L		99
111) n-butylbenzene	16.112	92	133930	47.42	ug/L		99
112) hexachloroethane	16.520	119	49981	47.23	ug/L		98
113) 1,2-dibromo-3-chloropr...	17.079	157	9825	42.79	ug/L		99
114) 1,3,5-Trichlorobenzene	17.262	180	111330	46.31	ug/L		99
115) 1,2,4-trichlorobenzene	17.927	180	93314	44.52	ug/L		99
116) hexachlorobutadiene	18.042	225	61359	47.02	ug/L		99
117) naphthalene	18.220	128	162601	44.96	ug/L		99
118) 1,2,3-trichlorobenzene	18.476	180	78752	43.76	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7142\
Data File : I176883.D
Acq On : 1 Sep 2012 9:07 am
Operator : SCOTTM
Sample : CC7140-50
Misc : MS34987,VI7142,,,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 04 10:21:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7140.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Sep 04 09:16:51 2012
Response via : Initial Calibration



ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V3B3949

Print Analyst Name: TARA [illegible]

Date: 6/20/2016

Analyst Signature: Tara [illegible]

Columns: [illegible]

Method VBLW3

Initial Cal. Method V3B3944

Standard Data

Lot #	Description	Conc.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Standard Data

Lot #	Description	Conc.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/21/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	V3B3620	BS					5ml						0K	11:12 AM	
	V3B3621	IC 3949-05											RR	1ml ABC SUP 400ul ALS TOLUENE F12V3/CTFE/100ml	
	V3B3622	IC3949-1									-	-	0K	1ml ABC SUP 100ul ALS TOLUENE F12V3/CTFE/100ml	
	V3B3623 V3B3623	IC3949-2									-	-	0K	2ml ABC SUP ALS TOLUENE F12V3/CTFE/100ml	
	V3B3624	IC3949-5 IC3949-5									-	-	0K	5ml ABC ALS TOLUENE SUP F12V3/CTFE/100ml	
	V3B3625	IC3949-10									-	-	0K	5ml ABC ALS SUP TOLUENE F12V3/CTFE/100ml	
	V3B3626	IC3949-20									-	-	0K	10ml ABC ALS TOLUENE F12V3/CTFE/100ml	
	V3B3627	IC3949-50									-	-	0K	20ml ABC ALS SUP TOLUENE F12V3/CTFE/100ml	
	V3B3628	IC3949-100									-	-	0K	50ml ABC SUP TOLUENE F12V3/CTFE/100ml	
	V3B3629	IC3949-200									-	-	0K	100ml ABC SUP TOLUENE F12V3/CTFE/100ml	
	V3B3630	IB											WP JK		
	V3B3631	IB											WP JK		
	V3B3632	IC3949-0.5									-	-	0K	500ul ABC SUP 400ul ALS TOLUENE F12V3/CTFE/100ml	
	V3B3633	IC3949-10									-	-	RR	2ml F12V3 10ml ABC SUP ALS F12V3/CTFE	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

127

7.2.1 7

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V3B3949

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Date: 6/24/12

Columns: [illegible]

Method [illegible]

Initial Cal. Method [illegible]

Standard Data

Lot #	Description	Conc.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Standard Data

Lot #	Description	Conc.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] **Date:** 6/26/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	3B84633	BF3											PC	10:23:42	
	[illegible]	BF3											9C	1HR 15.P42: 15.913	
TA Cylinder	3B84635	ICV3949-50											PC	1,4-DIOXANE d	
	3B84636	ICV3949-SV											9C	25mL EFF ASCAR FREON/CTFE/50mL	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

VOLATILE ANALYSIS LOG

ACCUTEST.

Batch ID: V3B4068

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Date: 9/7/2012

Columns: [illegible]

Method [illegible]

Initial Cal. Method [illegible]

Standard Data

Lot #	Description	Conc.
[illegible]	ACROLEIN	100ppm
53	EXT +	L
47	METHANOL	2500ppm

Standard Data

Lot #	Description	Conc.
[illegible]	5000	100ppm
53	B	
54	C	
16	Ext A	
45	B	
43	C	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 9/10/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	3B87164	BS											MW	CCV	
	3B87165	BS					5					✓	PK	100ppm	
	3B87166	CCB9/6-10					5				✓	✓	MW	CYCLOHEXANE IS	
	3B87167	CCB9/6-20					5				✓	✓	PK	100ppm BFB ONLY	
	3B87168	LB					5						MW		
	3B87169	MB					5			1	✓	✓	PK		
	3B87170	BS					5				✓	✓	PK	25ML EXT BFB ONLY	
	3B87171	LB					5						MW		
	3B87172	JB1533-1	35126 BFB	L			5		1x		✓	✓	PK		
	3B87173	JB1533-2		L			5		1x		✓	✓	PK		
	3B87174	JB1533-2x10		L			5		10x		✓	✓	PK		
	3B87175	JB1533-2x20		L			5		10x		✓	✓	PK		
	3B87176	LB					5						MW		
R	3B87177	JB1103-1	35168 TCLP	W	6		5		1x		✓	✓	PK		
R	3B87178	JB1103-2		W	5		5		1x		✓	✓	PK		
R	3B87179	JB1104-3		W	1		5		1x		✓	✓	PK		
R	3B87180	JB1104-4		W	L		5		1x		✓	✓	PK		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Rev. Date: 2/14/2007

17

7.7.2

7

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V3B4068

Date: 9/7/11

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.

Columns: [illegible]

Method [illegible]

Initial Cal. Method [illegible]

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 9/10/11

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	V3B7181	JB15104-6	8260 TCLP+10	W S O	7		5		1x		/	/	0,x		
	V3B7182	JB15104-7	8260 TCLP+10	W S O	2		5		1x		/	/	0,x		
	V3B7183	JB15357-10	8260 TCLP+10	W S O	1		5		1x		/	/	0,x	8:23a	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VI- 7140

Date: 8/30/12

Print Analyst Name: SCOTT MCGONIGAL

Analyst Signature:

Columns: ZB 624

Method SW846-8260D

Initial Cal. Method M 7140

Standard Data

Lot #	Description	Conc.
VI124-114	BFB	25ppb
VI12-138S-19	8260 A	100ppb
VI12-138S-04	B	
VI12-138S-06	C	
VI12-138S-10	ASRQL	1000ppb

Standard Data

Lot #	Description	Conc.
VI12-138S-37	INT. STD	250ppb
VI12-138S-26	INT. STD/SUR	
VI12-138S-35	EXT. A	100ppb
VI12-138S-12	B	
VI12-138S-21	C	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 8/31/2012

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	I176815	BFB1											ok		
	I176816	IC7140-10	8260	S			5.0						ok	A,B,C,ACR,SURR 5ml of STDS. To 50ml	
	I176817	IC7140-5											ok	A,B,C,ACR 5ml of STDS. To 100ml	
	I176818	IC7140-2											ok	A,B,C,ACR 2ml of STDS To 100ml	
	I176819	IC7140-1											ok	" 1ml	
	I176820	IC7140-0.5											ok	" 0.5ml	
	I176821	IIC7140-20											N-C		
	I176822	ICC7140-50											ok	A,B,C,ACR 25ml of STDS. To 50ml	
	I176823	IC7140-100											ok	" 50ml of STDS. To 50ml	
	I176824	IC7140-200											ok	" 100ml	
	I176825	IB													
	I176826	IC7140-20	8260				5.0						ok	A,B,C,ACR 10ml of STDS. To 50ml	
	I176827	ICV7140-50											ok	A,B,C,ACR 25ml of STDS. To 50ml 606	
	I176828	BFB2				15							ok		
	I176829	CC7140-20				17							ok	A,B,C,ACR 10ml of STDS To 50ml	
	I176830	IB				19									
	I176831	MB1				20				✓			ok		

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result .

l strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error

rm: OR001-9
v. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VI 7140

Date: 8/30/12

Print Analyst Name: SCOTT MCGONIGAL

Analyst Signature:

Columns: ZB 624

Method SW846-8260

Initial Cal. Method MI 7140

Standard Data

Lot #	Description	Conc.
	pg 15	

Standard Data

Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 8/31/2012

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	I176832	BS				24	5.0				✓	✓	ok	A,B,C,AR 25ul of STDS. TO 5ml	
	I176833	IB				22									
	I176834	JB1471S-1	VSCD	S	1	23	5.0				✓	✓	ok		
	I176835	JB1471S-1s				24					✓	✓	ok	25ul of STDS TO 5ml	
	I176836	JB1471S-1sd				25					✓	✓	ok		
	I176837	IB				26									
	I176838	JB14632-30	VTLL1		3	27	6.6			+	✓	✓	ok		
	I176839	JB14632-31				28	6.3			+	✓	✓	ok		
	I176840	JB14632-32				29	6.2			+	✓	✓	ok		
	I176841	JB14632-33				30	6.1			+	✓	✓	ok		
	I176842	JB14632-34			↓	31	6.1			+	✓	✓	ok		
	I176843	~~JB14632-35~~ JB14632-35 ~~JB1502I-1~~			7	32	4.5			+	✓	✓	ok		
	I176844	JB1502I-2A			7	33					✓	✓	ok		
	I176845	JB1501S-1	VTLL1		5	34	4.3			+	✓	✓	ok		
	I176846	JB1501S-1	VBEN2		5	35	4.3				✓	✓	ok		
R	I176847	JB14476-9			2	36	3.3				✓	✓	ok		
	I176848	JB14354-4			2		5.0						NC	BS FAIL	

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ll strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error

orm: OR001-9
ev. Date: 2/14/2007

17

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VI 7140

Date: 8/30/12

Print Analyst Name: SCOTT McGOWAN

Analyst Signature:

Columns: ZB-624

Method SW846-8260

Initial Cal. Method MJ-7140

Standard Data

Lot #	Description	Conc.
	PP-15	

Standard Data

Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 8/31/2012

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	V17849	JB15021-1A	VTCU1	W	7		4.5			+	✓	✓	OK		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI- 7141

Date: 8/31/12

Print Analyst Name: SCOTT McGONIGAL

Analyst Signature:

Columns: TB 624

Method SW846 - 8260

Initial Cal. Method MC - 7140

Standard Data

Lot #	Description	Conc.
[illegible]	BFB	25ppm
[illegible]	8260 A	100ppm
[illegible]	B	
[illegible]	C	
[illegible]	ASRL	1000ppm

Standard Data

Lot #	Description	Conc.
VOA2-[illegible]	EXT- A	100ppm
VOA2-[illegible]	B	
VOA2-[illegible]	C	
VOA2-[illegible]	ASRL	1000ppm
VOA2-[illegible]	INT. STD/SURR	250ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 9/4/2012

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	I176850	BFB											ok	90%	
	I176851	CC7140-50	8260	S			5.0 mL						ok	A,B,C,ACR 25mL of STDS TO 50mL	
	I176852	TB													
	I176853	MB1									✓	✓	ok		
	I176854	BS											ok	A,B,C,ACR 25mL of STDS TO 50mL	
	I176855	TB				16									
P	I176856	JB14686-1	VTCL4		6	17	5.9			W	✓	✓	RR ok		
	I176857	JB14686-2			↓	18	5.0			W	✓	✓	RR ok		
	I176858	JB14686-3			↓	19	5.4			W	✓	✓	RR ok		
	I176859	JB15104-1			1	20	4.3			N	✓	✓	ok		
	I176860	JB15104-1MS			↓	21	↓			✓	✓	✓	ok	A,B,C,ACR 25mL of STDS TO 50mL	
	I176861	JB15104-1MSD			↓	22	↓			✓	✓	✓	ok		
	I176862	TB				23									
	I176863	BFB2				24							ok		
	I176864	CC7140-20				26	5.0						ok	94%	
	I176865	TB				28									
	I176866	MB2				29							NC	TOL CONTAM	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VI-7142

Date: 9/01/12

Print Analyst Name: SCOTT McGOWAN

Analyst Signature:

Columns: ZB-624

Method SW846-8260

Initial Cal. Method MT-7140

Standard Data

Lot #	Description	Conc.
VO12-0943-114	BFB	25ppm
VO12-1385-59	8260 A	100ppm
VO12-1385-60	B	↓
VO12-1385-36	C	↓
VO12-1385-40	ASRL	1000ppm

Standard Data

Lot #	Description	Conc.
VO12-1385-35	EXT. A	100ppm
VO12-1385-72	B	↓
VO12-1385-54	C	↓
VO12-1381-53	ASRL	1000ppm
VO12-1385-26	INT-STD/SUR	250ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 9/4/2012

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	I176882	BFB1											ok	8:20 AM	
	I176883	CC7140-50	8260	S			50						ok	25ul of STDS to 50ml	
	I176884	IB													
	I176885	MB1									✓	✓	ok		
	I176886	BS									✓	✓	ok	A,B,C,ASR 25ul of STDS to 50ml	
	I176887	IB													
	I176888	JB15104-2	VTLL1		1	1	4.3			N	✓	✓	ok		
	I176889	JB15104-2x									✓	✓	ok	A,B,C,ASR 25ul of STDS to 50ml	
	I176890	JB15104-2xx									✓	✓	ok		
R	I176891	JB14667-1	VBLL		5	5	5.7				✓	✓	ok		
	I176892	JB14672-1	VBL				5.9				✓	✓	ok		
	I176893	JB14672-3					5.4				✓	✓	ok		
	I176894	JB14672-2 2x					4.7				✓	✓	ok		
	I176895	JB14672-4	VTLL1		5		5.5			N	✓	✓	ok		
	I176896	JB15115-1			4		5.8			N	✓	✓	ok		
	I176897	JB15121-1			2		4.6			N	✓	✓	ok		
	I176898	JB15121-2	↓				3.7			N	✓	✓	ok		

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

ll strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error

rm: OR001-9
ev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VI-7142

Date: 9/01/12

Print Analyst Name: Scott McGonigle

Analyst Signature:

Standard Data

Lot #	Description	Conc.
	Pg. 29	

Standard Data

Lot #	Description	Conc.

Columns: ZB 624

Method SW846 - 8260

Initial Cal. Method MI 7140

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 9/4/2012

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	I176899	JB1512-4	VTL11	S	2		3.9				✓		OK		
	I176900	JB1512-5					3.9				✓		RR		
	I176901	JB1512-3					3.2				✓		OK		
	I176902	IB													
	I176903														
	I176904														
	I176905	BFB2													
	I176906	CC7140-20	8260	S			5.0						NC		
	I176907	IB													
	I176908	MB2													
	I176909	JB14969-2	VTL11		2		5.0			+				QC	
	I176910	JB14969-3					4.9			+			FAIL.		
	I176911	JB14969-4					4.6			+					
	I176912	JB14968-2			3		3.6			+					
	I176913	JB14968-3					4.5			+					
	I176914	JB15049-1			4										
	I176915	JB15049-2													

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

ll strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error

rm: OR001-9
ev. Date: 2/14/2007

New Jersey ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB15104
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: JB15104-1 **Analyzed:** 11-SEP-12 by KP **Method:** SM2540 G-97
ClientID: POOL #1

Wet Weight (Total)	33.57	g
Tare Weight	28	g
Dry Weight (Total)	32.07	g
Solids, Percent	73.1	%

Sample: JB15104-2 **Analyzed:** 08-SEP-12 by RO **Method:** ASTM 4643-00
ClientID: POOL XX

Wet Weight (Total)	28.65	g
Tare Weight	20.99	g
Dry Weight (Total)	27.46	g
Solids, Percent	84.5	%

L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

DATA USABILITY SUMMARY REPORT (DUSR)

DATA VALIDATION SUMMARY

ORGANIC ANALYSIS

EPA Compendium Method TO-15
VOLATILES BY GC/MS

For Air/Soil Gas Samples Collected
August 29, 2012 and August 31, 2012
From Elks Plaza
West Merrick Road, Freeport, NY
CA Rich Consultants, Inc.

SAMPLE DELIVERY GROUP NUMBERs: JB15168 and JB15420
Accutest Laboratories

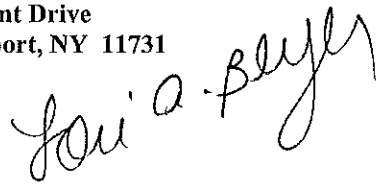
SUBMITTED TO:

Mr. Jason Cooper
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, New York 11803

October 15, 2012

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731



Phone (516) 523-7891 email LABValidation@aol.com

Elks Plaza, West Merrick Road, Freeport, Hicksville, New York; August 2012.
Data Validation Report: Volatile Organics

Table of Contents:

Introduction
Data Qualifier Definitions
Sample Receipt

1.0 Volatile Organics by GC/MS EPA Compendium Method TO-15
- 1.1 Holding Time
- 1.2 Surrogate Standards
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 1.4 Laboratory Control Sample
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Target Compound List Identification
- 1.10 Tentatively Identified Compounds
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

APPENDICES:

A. Data Summary Form Is with Qualifications
B. Chain of Custody Documents
C. SDG Narratives

Introduction:

A validation was performed on ten (10) soil gas [air] samples for Volatile Organic analysis collected by CA Rich Consultants and submitted to Accutest Laboratories, Inc. for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the ten (10) field samples itemized below. The samples were collected on August 29, 2012 and August 31, 2012.

The samples were analyzed by Accutest utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol (2005) and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the selected TO-15 Target Compound List (TCL) of analytes for Volatile Organics listed in Appendix A.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 4-Updated 2009) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following field soil gas/air samples:

Sample Identification	Laboratory Identification(s)	Sample Matrix (Air Type)	Collection Date
AA-1	JB15168-1	Ambient Air Comp	08/29/12
RISV-1	JB15168-2	Soil Vapor Comp	08/29/12
SSV B-12	JB15168-3	Soil Vapor Comp	08/29/12
IA B-12	JB15168-4	Indoor Air Comp	08/29/12
SSV G-5	JB15168-5	Soil Vapor Comp	08/29/12
IA G-5	JB15168-6	Indoor Air Comp	08/29/12
SSV Basement	JB15168-7	Soil Vapor Comp	08/29/12
IA Basement	JB15168-8	Indoor Air Comp	08/29/12
SV-X	JB15168-9	Soil Vapor Comp	08/29/12
RISV-2	JB15420-1	Soil Vapor Comp	08/31/12

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL - The analyte was not detected and the reported quantitation limit is most likely higher than reported.

Sample Receipt:

The Chain of Custody documents from 08/29/12 and 08/31/12 indicates that ten (10) air samples were shipped via federal express to Accutest Laboratories and received on 08/31/12 and 09/05/12 following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory no discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results were considered to be valid and useable as noted on the data summary tables in Appendix A and within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Air samples pertaining to these SDGs were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

Canister pressure gauge was within requirements of 30 psi prior to sampling.

1.2 Surrogate Standards

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Recoveries for 4-Bromofluorobenzene fell within in house established ranges of 65-128% for all analyses pertaining to these SDGs.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to these SDGs. The laboratory performed a blank spike/blank spike duplicate with each batch and all recovery values were determined to be acceptable (>70% - <130%) for all compounds. Acceptable RPD was also observed.

Batch duplicate analysis was submitted with these data packages. Acceptable precision (RPD) was observed for detected compounds for non-site specific QC with the following exceptions:

2.2.4-Trimethylpentane – 40%. Based on professional judgment, no qualifications were applied to samples as a result on non site-specific QC outliers.

1.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Additional QC samples were not analyzed which is acceptable per the method since a blank spike/blank spike duplicate was analyzed.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but </=10x blank value	Sample Conc. is <CRQL and </=10x blank value	Sample Conc. is >CRQL and >10x blank value
Other Contaminants	Sample Conc. Is >CRQL, but </=5x blank value	Sample Conc. Is <CRQL and </=5x blank value	Sample Conc. is >CRQL and >5x blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

Method and Canister blanks were determined to be free of any contamination.

Canister cleaning documentation met QC requirements.

B) **Field Blank Contamination:**

Field Blank analysis was not conducted for these SDGs.

C) **Trip Blank Contamination:**

Trip Blank analysis was not submitted with these SDGs.

D) **Storage Blank Contamination:**

Storage blanks were not submitted for these SDGs. It should be noted that storage blanks are not mandated by EPA Method TO-15.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for these SDGs.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:
The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds are allowed to be >0.01 without qualification:
2-Butanone
Carbon Disulfide
Chloroethane
Chloromethane
1,2-Dibromoethane
1,2-Dichloropropane
1,4-Dioxane
1,2-Dibromo-3-chloroproane
Methylene Chloride

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) [or >/=0.01 for the 9 compounds above], for the initial and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all target compounds with the following exceptions:

None.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) for all target compounds with the following exceptions:

Tetrachloroethene – CCAL 09/05/12; 28.9%; "J/UJ" all samples collected on 08/29/12.

O-Xylene – CCAL 09/05/12; 26.1%; "J/UJ" all samples collected on 08/29/12.

M&P-Xylene – CCAL 09/05/12; 25.6%; "J/UJ" all samples collected on 08/29/12.

Additionally, Xylene(total) was qualified as estimated in the 08/29/12 samples.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to +40%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to +40%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all analysis pertaining to this data set.

1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Tentatively Identified Compounds (TICs)

TICs were reported in accordance with the project requirements. The identification must be considered tentative (both quantitative and qualitative) due to the lack of required compound specific response factors. Consequently all concentrations should be considered estimated, "J" and as a result of the qualitative uncertainty should be qualified, "N" where an identification has been made.

TICs were not submitted with this data set.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

Sample results have been presented in ug/m3 as well as ppbv by the laboratory on the Form I's.

All samples were initially analyzed undiluted. Analyte concentration fpr 2,2,4-Trimethylpentane was determined to be over the instruments linear calibration range for RISV-1 and SSV B-12. Tert-butyl Alcohol was also over calibration range in RISV-2. Diluted reanalyses were performed at reduced volumes to obtain concentrations within range. The diluted concentrations must be utilized by the end user and is presented in the Form I's provided in Appendix A.

Ethanol was determined to be above the instruments linear calibration range in IA Basement. A diluted reanalysis was not performed for this sample. The laboratory reported concentration for Ethanol must be considered estimated, biased low, "J."

1.12 Overall System Performance

GC/MS analytical methodology was acceptable for this analysis except where explained in the laboratory SDG Narrative and the detailed validation report. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature Lori A. Beyer **Date** 10/15/12

Phone (516) 523-7891 email LABValidation@aol.com

L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

Appendix A
Data Summary
Form I's
With Qualifications

Phone (516) 523-7891 email LABValidation@aol.com

Elks. Plaza. Freeport, NY

Client Sample ID:	IA B-12	IA BASEMENT	IA G-5	AA-1	RISV-1	SSV B-12	SSV BASEMENT	SSV G-5	RISV-2	SV-X
Lab Sample ID:	JB15168-4	JB15168-8	JB15168-6	JB15168-1	JB15168-2	JB15168-3	JB15168-7	JB15168-5	JB15420-1	JB15168-9
Date Sampled:	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/31/2012	8/29/2012

GC/MS Volatiles

Acetone	ug/m3	26.6		15		16		14		1.9	U	1.9	U	12		26.6		136		129	
1,3-Butadiene	ug/m3	0.44	U	0.44	U	0.44	U	0.44	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
Benzene	ug/m3	0.45	J	0.45	J	0.51	J	0.93		121		5.1		3.1		2.0	J	8.3		176	
Bromodichloromethane	ug/m3	1.3	U	1.3	U	1.3	U	1.3	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
Bromoform	ug/m3	2.1	U	2.1	U	2.1	U	2.1	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U
Bromomethane	ug/m3	0.78	U	0.78	U	0.78	U	0.78	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Bromoethene	ug/m3	0.87	U	0.87	U	0.87	U	0.87	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	U
Benzyl Chloride	ug/m3	1.0	U	1.0	U	1.0	U	1.0	U	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U
Carbon disulfide	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U	1.8	J	2.5	U	2.5	U	1.5	J	2.0	J	2.3	J
Chlorobenzene	ug/m3	0.92	U	0.92	U	0.92	U	0.92	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
Chloroethane	ug/m3	0.53	U	0.53	U	0.53	U	0.53	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Chloroform	ug/m3	0.98	U	0.98	U	0.98	U	0.98	U	4.2		3.9	U	3.9	U	3.9	U	3.9	U	5.4	
Chloromethane	ug/m3	1.2		1.3		1.2		1.2		1.7	U	1.7	U	1.7	U	1.7	U	1.7		1.7	U
3-Chloropropene	ug/m3	0.63	U	0.63	U	0.63	U	0.63	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Chlorotoluene	ug/m3	1.0	U	1.0	U	1.0	U	1.0	U	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U	4.1	U
Carbon tetrachloride	ug/m3	1.3	U	1.3	U	1.3	U	1.3	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	ug/m3	0.69	U	0.69	U	0.69	U	0.69	U	48.9		141		2.8	U	2.8	U	3.2		2.8	U
1,1-Dichloroethane	ug/m3	0.81	U	0.81	U	0.81	U	0.81	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
1,1-Dichloroethylene	ug/m3	0.79	U	0.79	U	0.79	U	0.79	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
1,2-Dibromoethane	ug/m3	1.5	U	1.5	U	1.5	U	1.5	U	6.1	U	6.1	U	6.1	U	6.1	U	6.1	U	6.1	U
1,2-Dichloroethane	ug/m3	0.81	U	0.81	U	0.81	U	0.81	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
1,2-Dichloropropane	ug/m3	0.92	U	0.92	U	0.92	U	0.92	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
1,4-Dioxane	ug/m3	0.72	U	0.72	U	0.72	U	0.72	U	4.0		2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Dichlorodifluoromethane	ug/m3	2.5		2.6		2.6		2.4		3.8	J	2.3	J	2.4	J	2.1	J	2.5	J	2.6	J
Dibromochloromethane	ug/m3	1.7	U	1.7	U	1.7	U	1.7	U	6.8	U	6.8	U	6.8	U	6.8	U	6.8	U	6.8	U
trans-1,2-Dichloroethylene	ug/m3	0.79	U	0.79	U	0.79	U	0.79	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
cis-1,2-Dichloroethylene	ug/m3	0.79	U	0.79	U	0.79	U	0.79	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
cis-1,3-Dichloropropene	ug/m3	0.91	U	0.91	U	0.91	U	0.91	U	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
m-Dichlorobenzene	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	4.8	U	4.8	U	4.8	U	4.8	U	4.8	U	4.8	U
o-Dichlorobenzene	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	4.8	U	4.8	U	4.8	U	4.8	U	4.8	U	4.8	U
p-Dichlorobenzene	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	4.8	U	4.8	U	4.8	U	4.8	U	4.8	U	4.8	U
trans-1,3-Dichloropropene	ug/m3	0.91	U	0.91	U	0.91	U	0.91	U	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
Ethanol	ug/m3	46.5		121	J	51.8		13		101		8.5		25.8		18		19		95.3	
Ethylbenzene	ug/m3	0.61	J	0.87	U	0.87	U	0.87	U	10		5.2		7.4		5.2		15		11	
Ethyl Acetate	ug/m3	3.1		1.9		2.4		3.3		190		5.4		2.7	J	12		54.0		5.4	
4-Ethyltoluene	ug/m3	2.3		0.54	J	1.2		0.98	U	3.7	J	3.1	J	2.4	J	2.3	J	5.4		3.9	
Freon 113	ug/m3	1.5	U	1.5	U	1.5	U	1.5	U	6.1	U	6.1	U	6.1	U	6.1	U	6.1	U	6.1	U
Freon 114	ug/m3	1.4	U	1.4	U	1.4	U	1.4	U	5.6	U	5.6	U	5.6	U	5.6	U	5.6	U	5.6	U
Heptane	ug/m3	0.82	U	0.82	U	0.82	U	0.82	U	3.8		8.2		3.3	U	3.3	U	9.4		3.7	
Hexachlorobutadiene	ug/m3	2.1	U	2.1	U	2.1	U	2.1	U	8.5	U	8.5	U	8.5	U	8.5	U	8.5	U	8.5	U
Hexane	ug/m3	0.46	J	0.70	U	0.46	J	0.49	J	11		94.5		1.4	J	2.8		9.5		4.2	
2-Hexanone	ug/m3	0.82	U	0.82	U	0.82	U	0.82	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U
Isopropyl Alcohol	ug/m3	36.4		13		23		1.4		13		2.9		2.7		7.4		44.7		9.6	
Methylene chloride	ug/m3	0.69	U	4.2		0.69	U	1.7		2.8	U	2.8	U	2.9		2.8	U	2.8	U	2.8	U
Methyl ethyl ketone	ug/m3	1.8		0.91		1.2		0.86		29		2.4	U	10		19		24		34.2	
Methyl Isobutyl Ketone	ug/m3	0.82	U	0.82	U	0.82	U	0.82	U	3.3	U	3.3	U	3.3	U	1.6	J	2.9	J	2.3	J
Methyl Tert Butyl Ether	ug/m3	0.72	U	0.72	U	0.72	U	0.72	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Methylmethacrylate	ug/m3	0.82	U	0.82	U	0.82	U	0.82	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U
Propylene	ug/m3	0.86	U	0.86	U	0.86	U	0.86	U	3.4	U	3.4	U	3.4	U	3.4	U	4.3		3.4	U
Styrene	ug/m3	0.85	U	0.85	U	0.85	U	0.85	U	7.7		3.4	U	2.0	J	1.7	J	2.7	J	2.3	J
1,1,1-Trichloroethane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U
1,1,2,2-Tetrachloroethane	ug/m3	1.4	U	1.4	U	1.4	U	1.4	U	5.5	U	5.5	U	5.5	U	5.5	U	5.5	U	5.5	U
1,1,2-Trichloroethane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U
1,2,4-Trichlorobenzene	ug/m3	1.5	U	1.5	U	1.5	U	1.5	U	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U
1,2,4-Trimethylbenzene	ug/m3	12		2.6		6.9		0.98	U	14		11		8.4		8.8		19		15	
1,3,5-Trimethylbenzene	ug/m3	4.9		0.98		2.9		0.98	U	3.5	J	3.3	J	2.4	J	2.8	J	5.4		3.9	
2,2,4-Trimethylpentane	ug/m3	0.93	U	0.93	U	0.93	U	0.44	J	1740		1810		3.7	U	4.5		8.4		2.1	J
Tertiary Butyl Alcohol	ug/m3	0.49	J	0.61	U	1.8		0.61	U	10		2.4	U	2.4	U	2.4	U	667		8.2	
Tetrachloroethylene	ug/m3	0.27	UJ	0.26	J	0.27	UJ	0.27	UJ	16	J	3.5	J	142	J	1.1	UJ	3.7		26	J
Tetrahydrofuran	ug/m3	0.86		0.59	U	0.59	U	0.59	U	36.3		8.3		14		8.6		23		39.5	
Toluene	ug/m3	1.5		1.4		1.2		1.0		62.9		19		31		21		73.9		60.7	
Trichloroethylene	ug/m3	0.21	U	0.21	U	0.21	U	0.21	U	0.86	U	0.86	U	0.86	U	0.86	U	0.86	U	0.86	U
Trichlorofluoromethane	ug/m3	1.3		1.3		1.5		2.0		2.2	J	4.5	U	4.8		4.5	U	4.5	U	2.2	J
Vinyl chloride	ug/m3	0.51	U	0.51	U	0.51	U	0.51	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Vinyl Acetate	ug/m3	0.70	U	0.70	U	0.70	U	0.70	U	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U
m,p-Xylene	ug/m3	1.9	J	1.1	J	0.96	J	0.74	J	34	J	19	J	25	J	17	J	51.7		39	J
o-Xylene	ug/m3	1.3	J	0.52	J	0.56	J	0.87	UJ	11	J	7.4	J	8.3	J	6.9	J	19		13	J
Xylenes (total)	ug/m3	3.2	J	1.7	J	1.6	J	0.74	J	45.2	J	26	J	33	J	25	J	70.4		51.3	J

Report of Analysis

Client Sample ID:	AA-1		
Lab Sample ID:	JB15168-1	Date Sampled:	08/29/12
Matrix:	AIR - Ambient Air Comp. Summa ID: A304	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30058.D	1	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.1	0.20	0.036	ppbv		14	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.29	0.20	0.046	ppbv		0.93	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.59	0.20	0.037	ppbv		1.2	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.038	ppbv		2.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

Report of Analysis

Client Sample ID:	AA-1		
Lab Sample ID:	JB15168-1	Date Sampled:	08/29/12
Matrix:	AIR - Ambient Air Comp. Summa ID: A304	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	7.1	0.50	0.095	ppbv		13	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.92	0.20	0.061	ppbv		3.3	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.14	0.20	0.044	ppbv	J	0.49	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.57	0.20	0.059	ppbv		1.4	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.48	0.20	0.027	ppbv		1.7	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.29	0.20	0.048	ppbv		0.86	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.095	0.20	0.028	ppbv	J	0.44	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND UJ	0.040	0.028	ppbv		ND UJ	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.27	0.20	0.040	ppbv		1.0	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.36	0.20	0.042	ppbv		2.0	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.17 J	0.20	0.031	ppbv	J	0.74 J	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND UJ	0.20	0.031	ppbv		ND UJ	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.17 J	0.20	0.031	ppbv	J	0.74 J	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		65-128%

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

10/1/12

Report of Analysis

Client Sample ID:	RISV-1		
Lab Sample ID:	JB15168-2	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A316	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30091.D	1	09/06/12	YXC	n/a	n/a	V3W1171
Run #2	3W30111.D	1	09/06/12	YXC	n/a	n/a	V3W1172

	Initial Volume
Run #1	100 ml
Run #2	25.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	0.80	0.15	ppbv		ND	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	37.8	0.80	0.18	ppbv		121	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.58	0.80	0.13	ppbv	J	1.8	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	0.85	0.80	0.11	ppbv		4.2	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	14.2	0.80	0.13	ppbv		48.9	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	1.1	0.80	0.22	ppbv		4.0	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.77	0.80	0.15	ppbv	J	3.8	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID:	RISV-1		
Lab Sample ID:	JB15168-2	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A316	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	53.6	2.0	0.38	ppbv		101	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	2.4	0.80	0.12	ppbv		10	3.5	ug/m3
141-78-6	88	Ethyl Acetate	52.7	0.80	0.24	ppbv		190	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.76	0.80	0.096	ppbv	J	3.7	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.93	0.80	0.13	ppbv		3.8	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	3.1	0.80	0.18	ppbv		11	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	5.3	0.80	0.23	ppbv		13	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	9.9	0.80	0.19	ppbv		29	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	1.8	0.80	0.11	ppbv		7.7	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.8	0.80	0.096	ppbv		14	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.72	0.80	0.11	ppbv	J	3.5	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	372 [a]	3.2	0.45	ppbv		1740 [a]	15	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.3	0.80	0.13	ppbv		10	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.3 J	0.16	0.11	ppbv		16 J	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	12.3	0.80	0.19	ppbv		36.3	2.4	ug/m3
108-88-3	92.14	Toluene	16.7	0.80	0.16	ppbv		62.9	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40	0.80	0.17	ppbv	J	2.2	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	7.8 J	0.80	0.12	ppbv		34 J	3.5	ug/m3
95-47-6	106.2	o-Xylene	2.6 J	0.80	0.12	ppbv		11 J	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	10.4 J	0.80	0.12	ppbv		45.2 J	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	87%	65-128%

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

10/14/12

Report of Analysis

Client Sample ID:	RISV-1		
Lab Sample ID:	JB15168-2	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A316	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

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

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

Report of Analysis

Client Sample ID:	SSV B-12		
Lab Sample ID:	JB15168-3	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A754	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30092.D	1.58	09/06/12	YXC	n/a	n/a	V3W1171
Run #2	3W30093.D	1.58	09/06/12	YXC	n/a	n/a	V3W1171

	Initial Volume
Run #1	158 ml
Run #2	25.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	0.80	0.15	ppbv		ND	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	1.6	0.80	0.18	ppbv		5.1	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	41.1	0.80	0.13	ppbv		141	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.80	0.15	ppbv	J	2.3	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID:	SSV B-12		
Lab Sample ID:	JB15168-3	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A754	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	4.5	2.0	0.38	ppbv		8.5	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.12	ppbv		5.2	3.5	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.80	0.24	ppbv		5.4	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.64	0.80	0.096	ppbv	J	3.1	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	2.0	0.80	0.13	ppbv		8.2	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	26.8	0.80	0.18	ppbv		94.5	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.2	0.80	0.23	ppbv		2.9	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.19	ppbv		ND	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.3	0.80	0.096	ppbv		11	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.68	0.80	0.11	ppbv	J	3.3	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	387 [a]	5.1	0.72	ppbv		1810 [a]	24	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.51 J	0.16	0.11	ppbv		3.5 J	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.8	0.80	0.19	ppbv		8.3	2.4	ug/m3
108-88-3	92.14	Toluene	5.0	0.80	0.16	ppbv		19	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	4.4 J	0.80	0.12	ppbv		19 J	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.7 J	0.80	0.12	ppbv		7.4 J	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	6.1 J	0.80	0.12	ppbv		26 J	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	93%	65-128%

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

10/4/12

Report of Analysis

Client Sample ID:	SSV B-12		
Lab Sample ID:	JB15168-3	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A754	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	IA B-12		
Lab Sample ID:	JB15168-4	Date Sampled:	08/29/12
Matrix:	AIR - Indoor Air Comp. Summa ID: A203	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30059.D	1.53	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	612 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	11.2	0.20	0.036	ppbv		26.6	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.046	ppbv	J	0.45	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.60	0.20	0.037	ppbv		1.2	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.038	ppbv		2.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

Report of Analysis

Client Sample ID:	IA B-12		
Lab Sample ID:	JB15168-4	Date Sampled:	08/29/12
Matrix:	AIR - Indoor Air Comp. Summa ID: A203	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	24.7	0.50	0.095	ppbv		46.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.14	0.20	0.031	ppbv	J	0.61	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.86	0.20	0.061	ppbv		3.1	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.46	0.20	0.024	ppbv		2.3	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.13	0.20	0.044	ppbv	J	0.46	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	14.8	0.20	0.059	ppbv		36.4	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.61	0.20	0.048	ppbv		1.8	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.4	0.20	0.024	ppbv		12	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.0	0.20	0.028	ppbv		4.9	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.16	0.20	0.032	ppbv	J	0.49	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	UJ 0.040	0.028	ppbv		ND	UJ 0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.29	0.20	0.047	ppbv		0.86	0.59	ug/m3
108-88-3	92.14	Toluene	0.41	0.20	0.040	ppbv		1.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.44 J	0.20	0.031	ppbv		1.9 J	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.29 J	0.20	0.031	ppbv		1.3 J	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.73 J	0.20	0.031	ppbv		3.2 J	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		65-128%

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

10/14/12

Report of Analysis

Client Sample ID:	SSV G-5		
Lab Sample ID:	JB15168-5	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A194	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30094.D	1	09/06/12	YXC	n/a	n/a	V3W1171
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	11.2	0.80	0.15	ppbv		26.6	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.64	0.80	0.18	ppbv	J	2.0	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.47	0.80	0.13	ppbv	J	1.5	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.43	0.80	0.15	ppbv	J	2.1	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID:	SSV G-5		
Lab Sample ID:	JB15168-5	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A194	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result		RL	MDL	Units	Q	Result		RL	Units
64-17-5	46.07	Ethanol	9.3		2.0	0.38	ppbv		18		3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.2		0.80	0.12	ppbv		5.2		3.5	ug/m3
141-78-6	88	Ethyl Acetate	3.3		0.80	0.24	ppbv		12		2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.46		0.80	0.096	ppbv	J	2.3		3.9	ug/m3
76-13-1	187.4	Freon 113	ND		0.80	0.14	ppbv		ND		6.1	ug/m3
76-14-2	170.9	Freon 114	ND		0.80	0.12	ppbv		ND		5.6	ug/m3
142-82-5	100.2	Heptane	ND		0.80	0.13	ppbv		ND		3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND		0.80	0.18	ppbv		ND		8.5	ug/m3
110-54-3	86.17	Hexane	0.80		0.80	0.18	ppbv		2.8		2.8	ug/m3
591-78-6	100	2-Hexanone	ND		0.80	0.17	ppbv		ND		3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.0		0.80	0.23	ppbv		7.4		2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND		0.80	0.11	ppbv		ND		2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	6.6		0.80	0.19	ppbv		19		2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40		0.80	0.14	ppbv	J	1.6		3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND		0.80	0.11	ppbv		ND		2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND		0.80	0.17	ppbv		ND		3.3	ug/m3
115-07-1	42	Propylene	ND		2.0	0.28	ppbv		ND		3.4	ug/m3
100-42-5	104.1	Styrene	0.39		0.80	0.11	ppbv	J	1.7		3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND		0.80	0.088	ppbv		ND		4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND		0.80	0.12	ppbv		ND		5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND		0.80	0.12	ppbv		ND		4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND		0.80	0.20	ppbv		ND		5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.8		0.80	0.096	ppbv		8.8		3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.56		0.80	0.11	ppbv	J	2.8		3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.96		0.80	0.11	ppbv		4.5		3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND		0.80	0.13	ppbv		ND		2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	UJ	0.16	0.11	ppbv		ND	UJ	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.9		0.80	0.19	ppbv		8.6		2.4	ug/m3
108-88-3	92.14	Toluene	5.5		0.80	0.16	ppbv		21		3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND		0.16	0.13	ppbv		ND		0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND		0.80	0.17	ppbv		ND		4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND		0.80	0.13	ppbv		ND		2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND		0.80	0.23	ppbv		ND		2.8	ug/m3
	106.2	m,p-Xylene	4.0	J	0.80	0.12	ppbv		17	J	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.6	J	0.80	0.12	ppbv		6.9	J	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	5.7	J	0.80	0.12	ppbv		25	J	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

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

10/4/12

Report of Analysis

Client Sample ID:	IA G-5		
Lab Sample ID:	JB15168-6	Date Sampled:	08/29/12
Matrix:	AIR - Indoor Air Comp. Summa ID: A643	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30060.D	1.48	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	592 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.9	0.20	0.036	ppbv		16	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.16	0.20	0.046	ppbv	J	0.51	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.56	0.20	0.037	ppbv		1.2	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

Report of Analysis

Client Sample ID:	IA G-5		
Lab Sample ID:	JB15168-6	Date Sampled:	08/29/12
Matrix:	AIR - Indoor Air Comp. Summa ID: A643	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	27.5	0.50	0.095	ppbv		51.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.67	0.20	0.061	ppbv		2.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.25	0.20	0.024	ppbv		1.2	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.13	0.20	0.044	ppbv	J	0.46	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	9.2	0.20	0.059	ppbv		23	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.39	0.20	0.048	ppbv		1.2	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.4	0.20	0.024	ppbv		6.9	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.58	0.20	0.028	ppbv		2.9	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.60	0.20	0.032	ppbv		1.8	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND UJ	0.040	0.028	ppbv		ND UJ	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.33	0.20	0.040	ppbv		1.2	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.042	ppbv		1.5	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.22 J	0.20	0.031	ppbv		0.96 J	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.13 J	0.20	0.031	ppbv	J	0.56 J	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.36 J	0.20	0.031	ppbv		1.6 J	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		65-128%

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

10/1/12

Report of Analysis

Client Sample ID:	SSV BASEMENT		
Lab Sample ID:	JB15168-7	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A649	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30095.D	1.48	09/06/12	YXC	n/a	n/a	V3W1171
Run #2							

	Initial Volume
Run #1	148 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	5.2	0.80	0.15	ppbv		12	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.96	0.80	0.18	ppbv		3.1	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.80	0.15	ppbv	J	2.4	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID:	SSV BASEMENT		
Lab Sample ID:	JB15168-7	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A649	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	13.7	2.0	0.38	ppbv		25.8	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.7	0.80	0.12	ppbv		7.4	3.5	ug/m3
141-78-6	88	Ethyl Acetate	0.75	0.80	0.24	ppbv	J	2.7	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.48	0.80	0.096	ppbv	J	2.4	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.39	0.80	0.18	ppbv	J	1.4	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.1	0.80	0.23	ppbv		2.7	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.84	0.80	0.11	ppbv		2.9	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.4	0.80	0.19	ppbv		10	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	0.46	0.80	0.11	ppbv	J	2.0	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.7	0.80	0.096	ppbv		8.4	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.48	0.80	0.11	ppbv	J	2.4	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	20.9 J	0.16	0.11	ppbv		142 J	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	4.8	0.80	0.19	ppbv		14	2.4	ug/m3
108-88-3	92.14	Toluene	8.3	0.80	0.16	ppbv		31	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.86	0.80	0.17	ppbv		4.8	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	5.8 J	0.80	0.12	ppbv		25 J	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.9 J	0.80	0.12	ppbv		8.3 J	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	7.7 J	0.80	0.12	ppbv		33 J	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

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

Report of Analysis

Client Sample ID:	IA BASEMENT		
Lab Sample ID:	JB15168-8	Date Sampled:	08/29/12
Matrix:	AIR - Indoor Air Comp. Summa ID: A322	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30061.D	1.48	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	592 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.4	0.20	0.036	ppbv		15	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.046	ppbv	J	0.45	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.64	0.20	0.037	ppbv		1.3	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

Report of Analysis

Client Sample ID:	IA BASEMENT		
Lab Sample ID:	JB15168-8	Date Sampled:	08/29/12
Matrix:	AIR - Indoor Air Comp. Summa ID: A322	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	64.4 J	0.50	0.095	ppbv	E	121 J	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.54	0.20	0.061	ppbv		1.9	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.11	0.20	0.024	ppbv	J	0.54	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	5.1	0.20	0.059	ppbv		13	0.49	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.20	0.027	ppbv		4.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.31	0.20	0.048	ppbv		0.91	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.53	0.20	0.024	ppbv		2.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.20	0.20	0.028	ppbv		0.98	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.039 J	0.040	0.028	ppbv	J	0.26 J	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.37	0.20	0.040	ppbv		1.4	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.26 J	0.20	0.031	ppbv		1.1 J	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.12 J	0.20	0.031	ppbv	J	0.52 J	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.38 J	0.20	0.031	ppbv		1.7 J	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		65-128%

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

10/4/12

Report of Analysis

Client Sample ID:	SV-X		
Lab Sample ID:	JB15168-9	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A989	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30096.D	1.55	09/06/12	YXC	n/a	n/a	V3W1171
Run #2							

	Initial Volume
Run #1	155 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	54.2	0.80	0.15	ppbv		129	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	55.2	0.80	0.18	ppbv		176	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.73	0.80	0.13	ppbv	J	2.3	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	1.1	0.80	0.11	ppbv		5.4	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.80	0.15	ppbv	J	2.6	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID:	SV-X		
Lab Sample ID:	JB15168-9	Date Sampled:	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A989	Date Received:	08/31/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result		RL	MDL	Units	Q	Result		RL	Units
64-17-5	46.07	Ethanol	50.6		2.0	0.38	ppbv		95.3		3.8	ug/m3
100-41-4	106.2	Ethylbenzene	2.6		0.80	0.12	ppbv		11		3.5	ug/m3
141-78-6	88	Ethyl Acetate	1.5		0.80	0.24	ppbv		5.4		2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.80		0.80	0.096	ppbv		3.9		3.9	ug/m3
76-13-1	187.4	Freon 113	ND		0.80	0.14	ppbv		ND		6.1	ug/m3
76-14-2	170.9	Freon 114	ND		0.80	0.12	ppbv		ND		5.6	ug/m3
142-82-5	100.2	Heptane	0.90		0.80	0.13	ppbv		3.7		3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND		0.80	0.18	ppbv		ND		8.5	ug/m3
110-54-3	86.17	Hexane	1.2		0.80	0.18	ppbv		4.2		2.8	ug/m3
591-78-6	100	2-Hexanone	ND		0.80	0.17	ppbv		ND		3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.9		0.80	0.23	ppbv		9.6		2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND		0.80	0.11	ppbv		ND		2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	11.6		0.80	0.19	ppbv		34.2		2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.57		0.80	0.14	ppbv	J	2.3		3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND		0.80	0.11	ppbv		ND		2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND		0.80	0.17	ppbv		ND		3.3	ug/m3
115-07-1	42	Propylene	ND		2.0	0.28	ppbv		ND		3.4	ug/m3
100-42-5	104.1	Styrene	0.54		0.80	0.11	ppbv	J	2.3		3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND		0.80	0.088	ppbv		ND		4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND		0.80	0.12	ppbv		ND		5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND		0.80	0.12	ppbv		ND		4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND		0.80	0.20	ppbv		ND		5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	3.1		0.80	0.096	ppbv		15		3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.80		0.80	0.11	ppbv		3.9		3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.46		0.80	0.11	ppbv	J	2.1		3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.7		0.80	0.13	ppbv		8.2		2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	3.8	J	0.16	0.11	ppbv		26	J	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	13.4		0.80	0.19	ppbv		39.5		2.4	ug/m3
108-88-3	92.14	Toluene	16.1		0.80	0.16	ppbv		60.7		3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND		0.16	0.13	ppbv		ND		0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40		0.80	0.17	ppbv	J	2.2		4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND		0.80	0.13	ppbv		ND		2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND		0.80	0.23	ppbv		ND		2.8	ug/m3
	106.2	m,p-Xylene	8.9	J	0.80	0.12	ppbv		39	J	3.5	ug/m3
95-47-6	106.2	o-Xylene	2.9	J	0.80	0.12	ppbv		13	J	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	11.8	J	0.80	0.12	ppbv		51.3	J	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

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

Report of Analysis

Client Sample ID:	RISV-2		
Lab Sample ID:	JB15420-1	Date Sampled:	08/31/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A898	Date Received:	09/05/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30166.D	1.48	09/12/12	YXC	n/a	n/a	V3W1175
Run #2	3W30177.D	1.48	09/12/12	YXC	n/a	n/a	V3W1176

	Initial Volume
Run #1	148 ml
Run #2	80.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	57.3	0.80	0.15	ppbv		136	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	2.6	0.80	0.18	ppbv		8.3	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.65	0.80	0.13	ppbv	J	2.0	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	0.81	0.80	0.15	ppbv		1.7	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	0.94	0.80	0.13	ppbv		3.2	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.80	0.15	ppbv	J	2.5	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID:	RISV-2		
Lab Sample ID:	JB15420-1	Date Sampled:	08/31/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A898	Date Received:	09/05/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	9.9	2.0	0.38	ppbv		19	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	3.4	0.80	0.12	ppbv		15	3.5	ug/m3
141-78-6	88	Ethyl Acetate	15.0	0.80	0.24	ppbv		54.0	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	1.1	0.80	0.096	ppbv		5.4	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	2.3	0.80	0.13	ppbv		9.4	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	2.7	0.80	0.18	ppbv		9.5	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	18.2	0.80	0.23	ppbv		44.7	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.1	0.80	0.19	ppbv		24	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.71	0.80	0.14	ppbv	J	2.9	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	2.5	2.0	0.28	ppbv		4.3	3.4	ug/m3
100-42-5	104.1	Styrene	0.64	0.80	0.11	ppbv	J	2.7	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	3.9	0.80	0.096	ppbv		19	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.1	0.80	0.11	ppbv		5.4	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.8	0.80	0.11	ppbv		8.4	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	220 [a]	1.5	0.24	ppbv		667 [a]	4.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.55	0.16	0.11	ppbv		3.7	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	7.9	0.80	0.19	ppbv		23	2.4	ug/m3
108-88-3	92.14	Toluene	19.6	0.80	0.16	ppbv		73.9	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	11.9	0.80	0.12	ppbv		51.7	3.5	ug/m3
95-47-6	106.2	o-Xylene	4.3	0.80	0.12	ppbv		19	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	16.2	0.80	0.12	ppbv		70.4	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	92%	65-128%

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

Report of Analysis

Client Sample ID:	RISV-2		
Lab Sample ID:	JB15420-1	Date Sampled:	08/31/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A898	Date Received:	09/05/12
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

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

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

L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

Appendix B
Chain of Custody

Phone (516) 523-7891 email LABValidation@aol.com

CHAIN OF CUSTODY
Air Sampling Field Data Sheet

ACCUTEST LABORATORIES
2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #	Bottle Order Control #	PAGE 1 OF 1
Lab Quote #	Lab Job # JB15168	

Client / Reporting Information

Company Name: Ca Rich Consultants, Inc.	Project Name: Elks Plaza
Address: 17 DuPont St	Street: West Merrick Rd
City: Plainview State: NY Zip: 11803	City: Freeport State: NY
Project Contact: Jason Cooper E-mail: JCooper@carichinc.com	Project #:
Phone #: (516)576-8844 Fax #: (516)576-0093	Client Purchase Order #:
Sampler(s) Name(s): Jessica Prosia, Tom Braun	

Weather Parameters

Temperature (Fahrenheit) Start: 70° Maximum: Stop: 80° Minimum:
Atmospheric Pressure (inches of Hg) Start: Maximum: Stop: Minimum:
Other weather comment:

Requested Analysis

TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis
-1	AA-1	A	A304	6L	FC159	8/29/12	7:15	30	70°	JP/TB	8/29/12	2:16	8	80°	JP/TB	X
-2	RISV-1	SV	A316	6L	FC402	8/29/12	7:37	29	70°	JP/TB	8/29/12	2:30	8	80°	JP/TB	X
-3	SSV B-12	SV	A254	6L	FC131	8/29/12	8:07	30	70°	JP/TB	8/29/12	2:57	8	80°	JP/TB	X
-4	IA B-12	I	A203	6L	FC502	8/29/12	8:03	30	70°	JP/TB	8/29/12	2:55	8	80°	JP/TB	X
-5	SSV G-5	SV	A194	6L	FC490	8/29/12	8:10	30	70°	JP/TB	8/29/12	3:03	8	80°	JP/TB	X
-6	IA G-5	I	A643	6L	FC243	8/29/12	8:19	30	70°	JP/TB	8/29/12	3:30	8	80°	JP/TB	X
-7	SSV Basement	SV	A649	6L	FC416	8/29/12	8:38	30	70°	JP/TB	8/29/12	3:37	8	80°	JP/TB	X
-8	IA Basement	I	A328	6L	FC257	8/29/12	8:38	30	70°	JP/TB	8/29/12	3:40	10	80°	JP/TB	X
-9	SV-X	SV	A989	6L	FC279	8/29/12	—	30	70°	JP/TB	8/29/12	—	8	80°	JP/TB	X

Turnaround Time (Business Days)

Standard - 15 Days	X
10 Day	
5 Day	
3 Day	
2 Day	
1 Day	
Other	

Approved By: Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A	
Comm B	X
Reduced T2	
Full T1	
Other:	

Comments / Remarks

Summa

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Laboratory:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1					8/30/12	FedEx
2	Relinquished by: FedEx	Date Time: 8/31/12 1230	Received by:	Relinquished by:	Date Time:	Received by:
3						
4	Relinquished by:	Date Time:	Received by:	Custody Seal #		
5						

4.1 4

JB15168: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15168 **Client:** **Project:**

Date / Time Received: 8/31/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Air

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking # 798883632189 | Bottle Order Control # MC-8/29/2012-4 | PAGE 1 OF 1
Lab Quote # | Lab Job # JB15420

Client / Reporting Information

Company Name: CA Rich Consultants
Address: 17 Dupont Street
City: Plainview | State: NY | Zip: 11803
Project Contact: Jason T. Cooper | E-mail: JCooper@Carichnc.com
Phone #: 516-576-8844 | Fax #: 516-576-0013
Sampler(s) Name(s): Tom Brown / Jason Cooper

Project Information

Project Name: Elks Plaza
Street: W. Merrick Rd
City: Freeport | State: NY
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 68°F | Maximum: 0810
Stop: 83°F | Minimum: 1545
Atmospheric Pressure (Inches of Hg)
Start: | Maximum:
Stop: | Minimum:
Other weather comment:

Requested Analysis

TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.
-1	RISV-2	SV	A893	6L	FC056	8/31/12	0810	-30	✓	TB/JC	8/31/12	1545	-8	—	JC/TB

Turnaround Time (Business Days)

Standard - 15 Days	X
10 Day	
5 Day	
3 Day	
2 Day	
1 Day	
Other	

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A	
Comm B	X
Reduced T2	
Full T1	
Other:	

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Laboratory	Date/Time	Received by	Relinquished by	Date Time	Received by
1	Ray Marcano 15:45	8/29/12	FedEx	FedEx		
3		9/4/12	FedEx	Fed	9/5/12 1100	
5				Custody Seal #		

2B

JB15420: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15420 **Client:** _____ **Project:** _____

Date / Time Received: 9/5/2012 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1

4

JB15420: Chain of Custody
Page 2 of 2

L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

Appendix C
SDG Narrative

Phone (516) 523-7891 email LABValidation@aol.com

ACCUTEST LABORATORIES

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants **Job No** JB15168

Site: Elks Plaza, Freeport, NY **Report Date** 9/24/2012 3:24:11 PM

On 08/31/2012, 9 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories . Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB15168 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** V3W1170

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB14900-2QDUP were used as the QC samples indicated.
- Sample(s) JB15168-8 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.

Matrix: AIR **Batch ID:** V3W1171

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15068-1DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** V3W1172

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15095-5DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for 2,2,4-Trimethylpentane are outside control limits for sample JB15095-5DUP.

(not applicable)

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

ACCUTEST LABORATORIES

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: C. A. Rich Consultants **Job No** JB15420

Site: Elks Plaza, Freeport, NY **Report Date** 9/24/2012 3:25:42 PM

On 09/05/2012, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories . Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB15420 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** V3W1175

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15688-1DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** V3W1176

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB15931-1DUP were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey ACCUTEST LABORATORIES

09/24/12

Technical Report for

C. A. Rich Consultants

Elks Plaza, Freeport, NY

GALAXY/ELKS PLAZA/SSD

Accutest Job Number: JB15168

Sampling Date: 08/29/12

Report to:

C. A. Rich Consultants

jcooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **89**

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

Paul Ioannidis
Lab Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Sections: 1 2 3 4 5

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Summary of Hits **4**
Section 3: Sample Results **13**
3.1: JB15168-1: AA-1 14
3.2: JB15168-2: RISV-1 16
3.3: JB15168-3: SSV B-12 19
3.4: JB15168-4: IA B-12 22
3.5: JB15168-5: SSV G-5 24
3.6: JB15168-6: IA G-5 26
3.7: JB15168-7: SSV BASEMENT 28
3.8: JB15168-8: IA BASEMENT 30
3.9: JB15168-9: SV-X 32
Section 4: Misc. Forms **34**
4.1: Chain of Custody 35
4.2: Summa Canister and Flow Controller Log 38
Section 5: GC/MS Volatiles - QC Data Summaries **39**
5.1: Method Blank Summary 40
5.2: Blank Spike/Blank Spike Duplicate Summary 53
5.3: Duplicate Summary 66
5.4: Summa Cleaning Certification 73
5.5: Instrument Performance Checks (BFB) 79
5.6: Surrogate Recovery Summaries 89

Sample Summary

C. A. Rich Consultants

Job No: JB15168

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JB15168-1	08/29/12	14:16	JP	08/31/12	AIR	Ambient Air Comp.	AA-1
JB15168-2	08/29/12	14:30	JP	08/31/12	AIR	Soil Vapor Comp.	RISV-1
JB15168-3	08/29/12	14:57	JP	08/31/12	AIR	Soil Vapor Comp.	SSV B-12
JB15168-4	08/29/12	14:55	JP	08/31/12	AIR	Indoor Air Comp.	IA B-12
JB15168-5	08/29/12	15:03	JP	08/31/12	AIR	Soil Vapor Comp.	SSV G-5
JB15168-6	08/29/12	15:30	JP	08/31/12	AIR	Indoor Air Comp.	IA G-5
JB15168-7	08/29/12	15:37	JP	08/31/12	AIR	Soil Vapor Comp.	SSV BASEMENT
JB15168-8	08/29/12	15:40	JP	08/31/12	AIR	Indoor Air Comp.	IA BASEMENT
JB15168-9	08/29/12	00:00	JP	08/31/12	AIR	Soil Vapor Comp.	SV-X

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB15168-1	**AA-1**					
Acetone		6.1	0.20	0.036	ppbv	TO-15
Benzene		0.29	0.20	0.046	ppbv	TO-15
Chloromethane		0.59	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane		0.49	0.20	0.038	ppbv	TO-15
Ethanol		7.1	0.50	0.095	ppbv	TO-15
Ethyl Acetate		0.92	0.20	0.061	ppbv	TO-15
Hexane		0.14 J	0.20	0.044	ppbv	TO-15
Isopropyl Alcohol		0.57	0.20	0.059	ppbv	TO-15
Methylene chloride		0.48	0.20	0.027	ppbv	TO-15
Methyl ethyl ketone		0.29	0.20	0.048	ppbv	TO-15
2,2,4-Trimethylpentane		0.095 J	0.20	0.028	ppbv	TO-15
Toluene		0.27	0.20	0.040	ppbv	TO-15
Trichlorofluoromethane		0.36	0.20	0.042	ppbv	TO-15
m,p-Xylene		0.17 J	0.20	0.031	ppbv	TO-15
Xylenes (total)		0.17 J	0.20	0.031	ppbv	TO-15
Acetone		14	0.48	0.086	ug/m3	TO-15
Benzene		0.93	0.64	0.15	ug/m3	TO-15
Chloromethane		1.2	0.41	0.076	ug/m3	TO-15
Dichlorodifluoromethane		2.4	0.99	0.19	ug/m3	TO-15
Ethanol		13	0.94	0.18	ug/m3	TO-15
Ethyl Acetate		3.3	0.72	0.22	ug/m3	TO-15
Hexane		0.49 J	0.70	0.16	ug/m3	TO-15
Isopropyl Alcohol		1.4	0.49	0.15	ug/m3	TO-15
Methylene chloride		1.7	0.69	0.094	ug/m3	TO-15
Methyl ethyl ketone		0.86	0.59	0.14	ug/m3	TO-15
2,2,4-Trimethylpentane		0.44 J	0.93	0.13	ug/m3	TO-15
Toluene		1.0	0.75	0.15	ug/m3	TO-15
Trichlorofluoromethane		2.0	1.1	0.24	ug/m3	TO-15
m,p-Xylene		0.74 J	0.87	0.13	ug/m3	TO-15
Xylenes (total)		0.74 J	0.87	0.13	ug/m3	TO-15
JB15168-2	**RISV-1**					
Benzene		37.8	0.80	0.18	ppbv	TO-15
Carbon disulfide		0.58 J	0.80	0.13	ppbv	TO-15
Chloroform		0.85	0.80	0.11	ppbv	TO-15
Cyclohexane		14.2	0.80	0.13	ppbv	TO-15
1,4-Dioxane		1.1	0.80	0.22	ppbv	TO-15
Dichlorodifluoromethane		0.77 J	0.80	0.15	ppbv	TO-15
Ethanol		53.6	2.0	0.38	ppbv	TO-15
Ethylbenzene		2.4	0.80	0.12	ppbv	TO-15
Ethyl Acetate		52.7	0.80	0.24	ppbv	TO-15
4-Ethyltoluene		0.76 J	0.80	0.096	ppbv	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Heptane	0.93	0.80	0.13	ppbv	TO-15
Hexane	3.1	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol	5.3	0.80	0.23	ppbv	TO-15
Methyl ethyl ketone	9.9	0.80	0.19	ppbv	TO-15
Styrene	1.8	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene	2.8	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene	0.72 J	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane	372	3.2	0.45	ppbv	TO-15
Tertiary Butyl Alcohol	3.3	0.80	0.13	ppbv	TO-15
Tetrachloroethylene	2.3	0.16	0.11	ppbv	TO-15
Tetrahydrofuran	12.3	0.80	0.19	ppbv	TO-15
Toluene	16.7	0.80	0.16	ppbv	TO-15
Trichlorofluoromethane	0.40 J	0.80	0.17	ppbv	TO-15
m,p-Xylene	7.8	0.80	0.12	ppbv	TO-15
o-Xylene	2.6	0.80	0.12	ppbv	TO-15
Xylenes (total)	10.4	0.80	0.12	ppbv	TO-15
Benzene	121	2.6	0.58	ug/m3	TO-15
Carbon disulfide	1.8 J	2.5	0.40	ug/m3	TO-15
Chloroform	4.2	3.9	0.54	ug/m3	TO-15
Cyclohexane	48.9	2.8	0.45	ug/m3	TO-15
1,4-Dioxane	4.0	2.9	0.79	ug/m3	TO-15
Dichlorodifluoromethane	3.8 J	4.0	0.74	ug/m3	TO-15
Ethanol	101	3.8	0.72	ug/m3	TO-15
Ethylbenzene	10	3.5	0.52	ug/m3	TO-15
Ethyl Acetate	190	2.9	0.86	ug/m3	TO-15
4-Ethyltoluene	3.7 J	3.9	0.47	ug/m3	TO-15
Heptane	3.8	3.3	0.53	ug/m3	TO-15
Hexane	11	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol	13	2.0	0.57	ug/m3	TO-15
Methyl ethyl ketone	29	2.4	0.56	ug/m3	TO-15
Styrene	7.7	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene	14	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene	3.5 J	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane	1740	15	2.1	ug/m3	TO-15
Tertiary Butyl Alcohol	10	2.4	0.39	ug/m3	TO-15
Tetrachloroethylene	16	1.1	0.75	ug/m3	TO-15
Tetrahydrofuran	36.3	2.4	0.56	ug/m3	TO-15
Toluene	62.9	3.0	0.60	ug/m3	TO-15
Trichlorofluoromethane	2.2 J	4.5	0.96	ug/m3	TO-15
m,p-Xylene	34	3.5	0.52	ug/m3	TO-15
o-Xylene	11	3.5	0.52	ug/m3	TO-15
Xylenes (total)	45.2	3.5	0.52	ug/m3	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB15168-3	**SSV B-12**					
Benzene		1.6	0.80	0.18	ppbv	TO-15
Cyclohexane		41.1	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane		0.46 J	0.80	0.15	ppbv	TO-15
Ethanol		4.5	2.0	0.38	ppbv	TO-15
Ethylbenzene		1.2	0.80	0.12	ppbv	TO-15
Ethyl Acetate		1.5	0.80	0.24	ppbv	TO-15
4-Ethyltoluene		0.64 J	0.80	0.096	ppbv	TO-15
Heptane		2.0	0.80	0.13	ppbv	TO-15
Hexane		26.8	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol		1.2	0.80	0.23	ppbv	TO-15
1,2,4-Trimethylbenzene		2.3	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene		0.68 J	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane		387	5.1	0.72	ppbv	TO-15
Tetrachloroethylene		0.51	0.16	0.11	ppbv	TO-15
Tetrahydrofuran		2.8	0.80	0.19	ppbv	TO-15
Toluene		5.0	0.80	0.16	ppbv	TO-15
m,p-Xylene		4.4	0.80	0.12	ppbv	TO-15
o-Xylene		1.7	0.80	0.12	ppbv	TO-15
Xylenes (total)		6.1	0.80	0.12	ppbv	TO-15
Benzene		5.1	2.6	0.58	ug/m3	TO-15
Cyclohexane		141	2.8	0.45	ug/m3	TO-15
Dichlorodifluoromethane		2.3 J	4.0	0.74	ug/m3	TO-15
Ethanol		8.5	3.8	0.72	ug/m3	TO-15
Ethylbenzene		5.2	3.5	0.52	ug/m3	TO-15
Ethyl Acetate		5.4	2.9	0.86	ug/m3	TO-15
4-Ethyltoluene		3.1 J	3.9	0.47	ug/m3	TO-15
Heptane		8.2	3.3	0.53	ug/m3	TO-15
Hexane		94.5	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol		2.9	2.0	0.57	ug/m3	TO-15
1,2,4-Trimethylbenzene		11	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene		3.3 J	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane		1810	24	3.4	ug/m3	TO-15
Tetrachloroethylene		3.5	1.1	0.75	ug/m3	TO-15
Tetrahydrofuran		8.3	2.4	0.56	ug/m3	TO-15
Toluene		19	3.0	0.60	ug/m3	TO-15
m,p-Xylene		19	3.5	0.52	ug/m3	TO-15
o-Xylene		7.4	3.5	0.52	ug/m3	TO-15
Xylenes (total)		26	3.5	0.52	ug/m3	TO-15
JB15168-4	**IA B-12**					
Acetone		11.2	0.20	0.036	ppbv	TO-15
Benzene		0.14 J	0.20	0.046	ppbv	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Chloromethane	0.60	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane	0.51	0.20	0.038	ppbv	TO-15
Ethanol	24.7	0.50	0.095	ppbv	TO-15
Ethylbenzene	0.14 J	0.20	0.031	ppbv	TO-15
Ethyl Acetate	0.86	0.20	0.061	ppbv	TO-15
4-Ethyltoluene	0.46	0.20	0.024	ppbv	TO-15
Hexane	0.13 J	0.20	0.044	ppbv	TO-15
Isopropyl Alcohol	14.8	0.20	0.059	ppbv	TO-15
Methyl ethyl ketone	0.61	0.20	0.048	ppbv	TO-15
1,2,4-Trimethylbenzene	2.4	0.20	0.024	ppbv	TO-15
1,3,5-Trimethylbenzene	1.0	0.20	0.028	ppbv	TO-15
Tertiary Butyl Alcohol	0.16 J	0.20	0.032	ppbv	TO-15
Tetrahydrofuran	0.29	0.20	0.047	ppbv	TO-15
Toluene	0.41	0.20	0.040	ppbv	TO-15
Trichlorofluoromethane	0.24	0.20	0.042	ppbv	TO-15
m,p-Xylene	0.44	0.20	0.031	ppbv	TO-15
o-Xylene	0.29	0.20	0.031	ppbv	TO-15
Xylenes (total)	0.73	0.20	0.031	ppbv	TO-15
Acetone	26.6	0.48	0.086	ug/m3	TO-15
Benzene	0.45 J	0.64	0.15	ug/m3	TO-15
Chloromethane	1.2	0.41	0.076	ug/m3	TO-15
Dichlorodifluoromethane	2.5	0.99	0.19	ug/m3	TO-15
Ethanol	46.5	0.94	0.18	ug/m3	TO-15
Ethylbenzene	0.61 J	0.87	0.13	ug/m3	TO-15
Ethyl Acetate	3.1	0.72	0.22	ug/m3	TO-15
4-Ethyltoluene	2.3	0.98	0.12	ug/m3	TO-15
Hexane	0.46 J	0.70	0.16	ug/m3	TO-15
Isopropyl Alcohol	36.4	0.49	0.15	ug/m3	TO-15
Methyl ethyl ketone	1.8	0.59	0.14	ug/m3	TO-15
1,2,4-Trimethylbenzene	12	0.98	0.12	ug/m3	TO-15
1,3,5-Trimethylbenzene	4.9	0.98	0.14	ug/m3	TO-15
Tertiary Butyl Alcohol	0.49 J	0.61	0.097	ug/m3	TO-15
Tetrahydrofuran	0.86	0.59	0.14	ug/m3	TO-15
Toluene	1.5	0.75	0.15	ug/m3	TO-15
Trichlorofluoromethane	1.3	1.1	0.24	ug/m3	TO-15
m,p-Xylene	1.9	0.87	0.13	ug/m3	TO-15
o-Xylene	1.3	0.87	0.13	ug/m3	TO-15
Xylenes (total)	3.2	0.87	0.13	ug/m3	TO-15
JB15168-5 SSV G-5					
Acetone	11.2	0.80	0.15	ppbv	TO-15
Benzene	0.64 J	0.80	0.18	ppbv	TO-15
Carbon disulfide	0.47 J	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane	0.43 J	0.80	0.15	ppbv	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Ethanol		9.3	2.0	0.38	ppbv	TO-15
Ethylbenzene		1.2	0.80	0.12	ppbv	TO-15
Ethyl Acetate		3.3	0.80	0.24	ppbv	TO-15
4-Ethyltoluene		0.46 J	0.80	0.096	ppbv	TO-15
Hexane		0.80	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol		3.0	0.80	0.23	ppbv	TO-15
Methyl ethyl ketone		6.6	0.80	0.19	ppbv	TO-15
Methyl Isobutyl Ketone		0.40 J	0.80	0.14	ppbv	TO-15
Styrene		0.39 J	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene		1.8	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene		0.56 J	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane		0.96	0.80	0.11	ppbv	TO-15
Tetrahydrofuran		2.9	0.80	0.19	ppbv	TO-15
Toluene		5.5	0.80	0.16	ppbv	TO-15
m,p-Xylene		4.0	0.80	0.12	ppbv	TO-15
o-Xylene		1.6	0.80	0.12	ppbv	TO-15
Xylenes (total)		5.7	0.80	0.12	ppbv	TO-15
Acetone		26.6	1.9	0.36	ug/m3	TO-15
Benzene		2.0 J	2.6	0.58	ug/m3	TO-15
Carbon disulfide		1.5 J	2.5	0.40	ug/m3	TO-15
Dichlorodifluoromethane		2.1 J	4.0	0.74	ug/m3	TO-15
Ethanol		18	3.8	0.72	ug/m3	TO-15
Ethylbenzene		5.2	3.5	0.52	ug/m3	TO-15
Ethyl Acetate		12	2.9	0.86	ug/m3	TO-15
4-Ethyltoluene		2.3 J	3.9	0.47	ug/m3	TO-15
Hexane		2.8	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol		7.4	2.0	0.57	ug/m3	TO-15
Methyl ethyl ketone		19	2.4	0.56	ug/m3	TO-15
Methyl Isobutyl Ketone		1.6 J	3.3	0.57	ug/m3	TO-15
Styrene		1.7 J	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene		8.8	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene		2.8 J	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane		4.5	3.7	0.51	ug/m3	TO-15
Tetrahydrofuran		8.6	2.4	0.56	ug/m3	TO-15
Toluene		21	3.0	0.60	ug/m3	TO-15
m,p-Xylene		17	3.5	0.52	ug/m3	TO-15
o-Xylene		6.9	3.5	0.52	ug/m3	TO-15
Xylenes (total)		25	3.5	0.52	ug/m3	TO-15
JB15168-6	**IA G-5**					
Acetone		6.9	0.20	0.036	ppbv	TO-15
Benzene		0.16 J	0.20	0.046	ppbv	TO-15
Chloromethane		0.56	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane		0.53	0.20	0.038	ppbv	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Ethanol	27.5	0.50	0.095	ppbv	TO-15
Ethyl Acetate	0.67	0.20	0.061	ppbv	TO-15
4-Ethyltoluene	0.25	0.20	0.024	ppbv	TO-15
Hexane	0.13 J	0.20	0.044	ppbv	TO-15
Isopropyl Alcohol	9.2	0.20	0.059	ppbv	TO-15
Methyl ethyl ketone	0.39	0.20	0.048	ppbv	TO-15
1,2,4-Trimethylbenzene	1.4	0.20	0.024	ppbv	TO-15
1,3,5-Trimethylbenzene	0.58	0.20	0.028	ppbv	TO-15
Tertiary Butyl Alcohol	0.60	0.20	0.032	ppbv	TO-15
Toluene	0.33	0.20	0.040	ppbv	TO-15
Trichlorofluoromethane	0.27	0.20	0.042	ppbv	TO-15
m,p-Xylene	0.22	0.20	0.031	ppbv	TO-15
o-Xylene	0.13 J	0.20	0.031	ppbv	TO-15
Xylenes (total)	0.36	0.20	0.031	ppbv	TO-15
Acetone	16	0.48	0.086	ug/m3	TO-15
Benzene	0.51 J	0.64	0.15	ug/m3	TO-15
Chloromethane	1.2	0.41	0.076	ug/m3	TO-15
Dichlorodifluoromethane	2.6	0.99	0.19	ug/m3	TO-15
Ethanol	51.8	0.94	0.18	ug/m3	TO-15
Ethyl Acetate	2.4	0.72	0.22	ug/m3	TO-15
4-Ethyltoluene	1.2	0.98	0.12	ug/m3	TO-15
Hexane	0.46 J	0.70	0.16	ug/m3	TO-15
Isopropyl Alcohol	23	0.49	0.15	ug/m3	TO-15
Methyl ethyl ketone	1.2	0.59	0.14	ug/m3	TO-15
1,2,4-Trimethylbenzene	6.9	0.98	0.12	ug/m3	TO-15
1,3,5-Trimethylbenzene	2.9	0.98	0.14	ug/m3	TO-15
Tertiary Butyl Alcohol	1.8	0.61	0.097	ug/m3	TO-15
Toluene	1.2	0.75	0.15	ug/m3	TO-15
Trichlorofluoromethane	1.5	1.1	0.24	ug/m3	TO-15
m,p-Xylene	0.96	0.87	0.13	ug/m3	TO-15
o-Xylene	0.56 J	0.87	0.13	ug/m3	TO-15
Xylenes (total)	1.6	0.87	0.13	ug/m3	TO-15
JB15168-7 SSV BASEMENT					
Acetone	5.2	0.80	0.15	ppbv	TO-15
Benzene	0.96	0.80	0.18	ppbv	TO-15
Dichlorodifluoromethane	0.49 J	0.80	0.15	ppbv	TO-15
Ethanol	13.7	2.0	0.38	ppbv	TO-15
Ethylbenzene	1.7	0.80	0.12	ppbv	TO-15
Ethyl Acetate	0.75 J	0.80	0.24	ppbv	TO-15
4-Ethyltoluene	0.48 J	0.80	0.096	ppbv	TO-15
Hexane	0.39 J	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol	1.1	0.80	0.23	ppbv	TO-15
Methylene chloride	0.84	0.80	0.11	ppbv	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Methyl ethyl ketone	3.4	0.80	0.19	ppbv	TO-15
Styrene	0.46 J	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene	1.7	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene	0.48 J	0.80	0.11	ppbv	TO-15
Tetrachloroethylene	20.9	0.16	0.11	ppbv	TO-15
Tetrahydrofuran	4.8	0.80	0.19	ppbv	TO-15
Toluene	8.3	0.80	0.16	ppbv	TO-15
Trichlorofluoromethane	0.86	0.80	0.17	ppbv	TO-15
m,p-Xylene	5.8	0.80	0.12	ppbv	TO-15
o-Xylene	1.9	0.80	0.12	ppbv	TO-15
Xylenes (total)	7.7	0.80	0.12	ppbv	TO-15
Acetone	12	1.9	0.36	ug/m3	TO-15
Benzene	3.1	2.6	0.58	ug/m3	TO-15
Dichlorodifluoromethane	2.4 J	4.0	0.74	ug/m3	TO-15
Ethanol	25.8	3.8	0.72	ug/m3	TO-15
Ethylbenzene	7.4	3.5	0.52	ug/m3	TO-15
Ethyl Acetate	2.7 J	2.9	0.86	ug/m3	TO-15
4-Ethyltoluene	2.4 J	3.9	0.47	ug/m3	TO-15
Hexane	1.4 J	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol	2.7	2.0	0.57	ug/m3	TO-15
Methylene chloride	2.9	2.8	0.38	ug/m3	TO-15
Methyl ethyl ketone	10	2.4	0.56	ug/m3	TO-15
Styrene	2.0 J	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene	8.4	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene	2.4 J	3.9	0.54	ug/m3	TO-15
Tetrachloroethylene	142	1.1	0.75	ug/m3	TO-15
Tetrahydrofuran	14	2.4	0.56	ug/m3	TO-15
Toluene	31	3.0	0.60	ug/m3	TO-15
Trichlorofluoromethane	4.8	4.5	0.96	ug/m3	TO-15
m,p-Xylene	25	3.5	0.52	ug/m3	TO-15
o-Xylene	8.3	3.5	0.52	ug/m3	TO-15
Xylenes (total)	33	3.5	0.52	ug/m3	TO-15
JB15168-8 IA BASEMENT					
Acetone	6.4	0.20	0.036	ppbv	TO-15
Benzene	0.14 J	0.20	0.046	ppbv	TO-15
Chloromethane	0.64	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane	0.53	0.20	0.038	ppbv	TO-15
Ethanol	64.4 E	0.50	0.095	ppbv	TO-15
Ethyl Acetate	0.54	0.20	0.061	ppbv	TO-15
4-Ethyltoluene	0.11 J	0.20	0.024	ppbv	TO-15
Isopropyl Alcohol	5.1	0.20	0.059	ppbv	TO-15
Methylene chloride	1.2	0.20	0.027	ppbv	TO-15
Methyl ethyl ketone	0.31	0.20	0.048	ppbv	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,2,4-Trimethylbenzene		0.53	0.20	0.024	ppbv	TO-15
1,3,5-Trimethylbenzene		0.20	0.20	0.028	ppbv	TO-15
Tetrachloroethylene		0.039 J	0.040	0.028	ppbv	TO-15
Toluene		0.37	0.20	0.040	ppbv	TO-15
Trichlorofluoromethane		0.24	0.20	0.042	ppbv	TO-15
m,p-Xylene		0.26	0.20	0.031	ppbv	TO-15
o-Xylene		0.12 J	0.20	0.031	ppbv	TO-15
Xylenes (total)		0.38	0.20	0.031	ppbv	TO-15
Acetone		15	0.48	0.086	ug/m3	TO-15
Benzene		0.45 J	0.64	0.15	ug/m3	TO-15
Chloromethane		1.3	0.41	0.076	ug/m3	TO-15
Dichlorodifluoromethane		2.6	0.99	0.19	ug/m3	TO-15
Ethanol		121 E	0.94	0.18	ug/m3	TO-15
Ethyl Acetate		1.9	0.72	0.22	ug/m3	TO-15
4-Ethyltoluene		0.54 J	0.98	0.12	ug/m3	TO-15
Isopropyl Alcohol		13	0.49	0.15	ug/m3	TO-15
Methylene chloride		4.2	0.69	0.094	ug/m3	TO-15
Methyl ethyl ketone		0.91	0.59	0.14	ug/m3	TO-15
1,2,4-Trimethylbenzene		2.6	0.98	0.12	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.98	0.98	0.14	ug/m3	TO-15
Tetrachloroethylene		0.26 J	0.27	0.19	ug/m3	TO-15
Toluene		1.4	0.75	0.15	ug/m3	TO-15
Trichlorofluoromethane		1.3	1.1	0.24	ug/m3	TO-15
m,p-Xylene		1.1	0.87	0.13	ug/m3	TO-15
o-Xylene		0.52 J	0.87	0.13	ug/m3	TO-15
Xylenes (total)		1.7	0.87	0.13	ug/m3	TO-15
JB15168-9	**SV-X**					
Acetone		54.2	0.80	0.15	ppbv	TO-15
Benzene		55.2	0.80	0.18	ppbv	TO-15
Carbon disulfide		0.73 J	0.80	0.13	ppbv	TO-15
Chloroform		1.1	0.80	0.11	ppbv	TO-15
Dichlorodifluoromethane		0.52 J	0.80	0.15	ppbv	TO-15
Ethanol		50.6	2.0	0.38	ppbv	TO-15
Ethylbenzene		2.6	0.80	0.12	ppbv	TO-15
Ethyl Acetate		1.5	0.80	0.24	ppbv	TO-15
4-Ethyltoluene		0.80	0.80	0.096	ppbv	TO-15
Heptane		0.90	0.80	0.13	ppbv	TO-15
Hexane		1.2	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol		3.9	0.80	0.23	ppbv	TO-15
Methyl ethyl ketone		11.6	0.80	0.19	ppbv	TO-15
Methyl Isobutyl Ketone		0.57 J	0.80	0.14	ppbv	TO-15
Styrene		0.54 J	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene		3.1	0.80	0.096	ppbv	TO-15

Summary of Hits

Job Number: JB15168
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/29/12

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene	0.80	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane	0.46 J	0.80	0.11	ppbv	TO-15
Tertiary Butyl Alcohol	2.7	0.80	0.13	ppbv	TO-15
Tetrachloroethylene	3.8	0.16	0.11	ppbv	TO-15
Tetrahydrofuran	13.4	0.80	0.19	ppbv	TO-15
Toluene	16.1	0.80	0.16	ppbv	TO-15
Trichlorofluoromethane	0.40 J	0.80	0.17	ppbv	TO-15
m,p-Xylene	8.9	0.80	0.12	ppbv	TO-15
o-Xylene	2.9	0.80	0.12	ppbv	TO-15
Xylenes (total)	11.8	0.80	0.12	ppbv	TO-15
Acetone	129	1.9	0.36	ug/m3	TO-15
Benzene	176	2.6	0.58	ug/m3	TO-15
Carbon disulfide	2.3 J	2.5	0.40	ug/m3	TO-15
Chloroform	5.4	3.9	0.54	ug/m3	TO-15
Dichlorodifluoromethane	2.6 J	4.0	0.74	ug/m3	TO-15
Ethanol	95.3	3.8	0.72	ug/m3	TO-15
Ethylbenzene	11	3.5	0.52	ug/m3	TO-15
Ethyl Acetate	5.4	2.9	0.86	ug/m3	TO-15
4-Ethyltoluene	3.9	3.9	0.47	ug/m3	TO-15
Heptane	3.7	3.3	0.53	ug/m3	TO-15
Hexane	4.2	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol	9.6	2.0	0.57	ug/m3	TO-15
Methyl ethyl ketone	34.2	2.4	0.56	ug/m3	TO-15
Methyl Isobutyl Ketone	2.3 J	3.3	0.57	ug/m3	TO-15
Styrene	2.3 J	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene	15	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene	3.9	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane	2.1 J	3.7	0.51	ug/m3	TO-15
Tertiary Butyl Alcohol	8.2	2.4	0.39	ug/m3	TO-15
Tetrachloroethylene	26	1.1	0.75	ug/m3	TO-15
Tetrahydrofuran	39.5	2.4	0.56	ug/m3	TO-15
Toluene	60.7	3.0	0.60	ug/m3	TO-15
Trichlorofluoromethane	2.2 J	4.5	0.96	ug/m3	TO-15
m,p-Xylene	39	3.5	0.52	ug/m3	TO-15
o-Xylene	13	3.5	0.52	ug/m3	TO-15
Xylenes (total)	51.3	3.5	0.52	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AA-1		
Lab Sample ID:	JB15168-1	**Date Sampled:**	08/29/12
Matrix:	AIR - Ambient Air Comp. Summa ID: A304	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30058.D	1	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.1	0.20	0.036	ppbv		14	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.29	0.20	0.046	ppbv		0.93	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.59	0.20	0.037	ppbv		1.2	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.038	ppbv		2.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

Report of Analysis

Client Sample ID: AA-1
Lab Sample ID: JB15168-1
Matrix: AIR - Ambient Air Comp. Summa ID: A304
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	7.1	0.50	0.095	ppbv		13	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.92	0.20	0.061	ppbv		3.3	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.14	0.20	0.044	ppbv	J	0.49	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.57	0.20	0.059	ppbv		1.4	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.48	0.20	0.027	ppbv		1.7	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.29	0.20	0.048	ppbv		0.86	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.095	0.20	0.028	ppbv	J	0.44	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.27	0.20	0.040	ppbv		1.0	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.36	0.20	0.042	ppbv		2.0	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.17	0.20	0.031	ppbv	J	0.74	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.17	0.20	0.031	ppbv	J	0.74	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		65-128%

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

Report of Analysis

Client Sample ID:	RISV-1		
Lab Sample ID:	JB15168-2	**Date Sampled:**	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A316	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30091.D	1	09/06/12	YXC	n/a	n/a	V3W1171
Run #2	3W30111.D	1	09/06/12	YXC	n/a	n/a	V3W1172

	Initial Volume
Run #1	100 ml
Run #2	25.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	0.80	0.15	ppbv		ND	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	37.8	0.80	0.18	ppbv		121	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.58	0.80	0.13	ppbv	J	1.8	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	0.85	0.80	0.11	ppbv		4.2	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	14.2	0.80	0.13	ppbv		48.9	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	1.1	0.80	0.22	ppbv		4.0	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.77	0.80	0.15	ppbv	J	3.8	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID: RISV-1
Lab Sample ID: JB15168-2
Matrix: AIR - Soil Vapor Comp. Summa ID: A316
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	53.6	2.0	0.38	ppbv		101	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	2.4	0.80	0.12	ppbv		10	3.5	ug/m3
141-78-6	88	Ethyl Acetate	52.7	0.80	0.24	ppbv		190	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.76	0.80	0.096	ppbv	J	3.7	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.93	0.80	0.13	ppbv		3.8	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	3.1	0.80	0.18	ppbv		11	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	5.3	0.80	0.23	ppbv		13	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	9.9	0.80	0.19	ppbv		29	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	1.8	0.80	0.11	ppbv		7.7	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.8	0.80	0.096	ppbv		14	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.72	0.80	0.11	ppbv	J	3.5	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	372 [a]	3.2	0.45	ppbv		1740 [a]	15	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.3	0.80	0.13	ppbv		10	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.3	0.16	0.11	ppbv		16	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	12.3	0.80	0.19	ppbv		36.3	2.4	ug/m3
108-88-3	92.14	Toluene	16.7	0.80	0.16	ppbv		62.9	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40	0.80	0.17	ppbv	J	2.2	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	7.8	0.80	0.12	ppbv		34	3.5	ug/m3
95-47-6	106.2	o-Xylene	2.6	0.80	0.12	ppbv		11	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	10.4	0.80	0.12	ppbv		45.2	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	87%	65-128%

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

Report of Analysis

Client Sample ID:	RISV-1		
Lab Sample ID:	JB15168-2	**Date Sampled:**	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A316	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	SSV B-12		
Lab Sample ID:	JB15168-3	**Date Sampled:**	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A754	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30092.D	1.58	09/06/12	YXC	n/a	n/a	V3W1171
Run #2	3W30093.D	1.58	09/06/12	YXC	n/a	n/a	V3W1171

	Initial Volume
Run #1	158 ml
Run #2	25.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	0.80	0.15	ppbv		ND	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	1.6	0.80	0.18	ppbv		5.1	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	41.1	0.80	0.13	ppbv		141	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.80	0.15	ppbv	J	2.3	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID: SSV B-12
Lab Sample ID: JB15168-3
Matrix: AIR - Soil Vapor Comp. Summa ID: A754
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	4.5	2.0	0.38	ppbv		8.5	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.12	ppbv		5.2	3.5	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.80	0.24	ppbv		5.4	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.64	0.80	0.096	ppbv	J	3.1	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	2.0	0.80	0.13	ppbv		8.2	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	26.8	0.80	0.18	ppbv		94.5	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.2	0.80	0.23	ppbv		2.9	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.19	ppbv		ND	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.3	0.80	0.096	ppbv		11	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.68	0.80	0.11	ppbv	J	3.3	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	387 [a]	5.1	0.72	ppbv		1810 [a]	24	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.51	0.16	0.11	ppbv		3.5	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.8	0.80	0.19	ppbv		8.3	2.4	ug/m3
108-88-3	92.14	Toluene	5.0	0.80	0.16	ppbv		19	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	4.4	0.80	0.12	ppbv		19	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.7	0.80	0.12	ppbv		7.4	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	6.1	0.80	0.12	ppbv		26	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	93%	65-128%

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

Report of Analysis

Client Sample ID:	SSV B-12		
Lab Sample ID:	JB15168-3	**Date Sampled:**	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A754	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: IA B-12
Lab Sample ID: JB15168-4
Matrix: AIR - Indoor Air Comp. Summa ID: A203
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30059.D	1.53	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	612 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	11.2	0.20	0.036	ppbv		26.6	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.046	ppbv	J	0.45	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.60	0.20	0.037	ppbv		1.2	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.038	ppbv		2.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: IA B-12
Lab Sample ID: JB15168-4
Matrix: AIR - Indoor Air Comp. Summa ID: A203
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	24.7	0.50	0.095	ppbv		46.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.14	0.20	0.031	ppbv	J	0.61	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.86	0.20	0.061	ppbv		3.1	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.46	0.20	0.024	ppbv		2.3	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.13	0.20	0.044	ppbv	J	0.46	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	14.8	0.20	0.059	ppbv		36.4	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.61	0.20	0.048	ppbv		1.8	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.4	0.20	0.024	ppbv		12	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.0	0.20	0.028	ppbv		4.9	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.16	0.20	0.032	ppbv	J	0.49	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.29	0.20	0.047	ppbv		0.86	0.59	ug/m3
108-88-3	92.14	Toluene	0.41	0.20	0.040	ppbv		1.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.44	0.20	0.031	ppbv		1.9	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.29	0.20	0.031	ppbv		1.3	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.73	0.20	0.031	ppbv		3.2	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		65-128%

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

Report of Analysis

Client Sample ID:	SSV G-5		
Lab Sample ID:	JB15168-5	**Date Sampled:**	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A194	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30094.D	1	09/06/12	YXC	n/a	n/a	V3W1171
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	11.2	0.80	0.15	ppbv		26.6	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.64	0.80	0.18	ppbv	J	2.0	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.47	0.80	0.13	ppbv	J	1.5	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.43	0.80	0.15	ppbv	J	2.1	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID: SSV G-5
Lab Sample ID: JB15168-5
Matrix: AIR - Soil Vapor Comp. Summa ID: A194
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	9.3	2.0	0.38	ppbv		18	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.12	ppbv		5.2	3.5	ug/m3
141-78-6	88	Ethyl Acetate	3.3	0.80	0.24	ppbv		12	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.46	0.80	0.096	ppbv	J	2.3	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.80	0.80	0.18	ppbv		2.8	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.0	0.80	0.23	ppbv		7.4	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	6.6	0.80	0.19	ppbv		19	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40	0.80	0.14	ppbv	J	1.6	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	0.39	0.80	0.11	ppbv	J	1.7	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.8	0.80	0.096	ppbv		8.8	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.56	0.80	0.11	ppbv	J	2.8	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.96	0.80	0.11	ppbv		4.5	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.11	ppbv		ND	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.9	0.80	0.19	ppbv		8.6	2.4	ug/m3
108-88-3	92.14	Toluene	5.5	0.80	0.16	ppbv		21	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	4.0	0.80	0.12	ppbv		17	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.6	0.80	0.12	ppbv		6.9	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	5.7	0.80	0.12	ppbv		25	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

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

Report of Analysis

Client Sample ID:	IA G-5		
Lab Sample ID:	JB15168-6	**Date Sampled:**	08/29/12
Matrix:	AIR - Indoor Air Comp. Summa ID: A643	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30060.D	1.48	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	592 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.9	0.20	0.036	ppbv		16	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.16	0.20	0.046	ppbv	J	0.51	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.56	0.20	0.037	ppbv		1.2	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

Report of Analysis

Client Sample ID: IA G-5
Lab Sample ID: JB15168-6
Matrix: AIR - Indoor Air Comp. Summa ID: A643
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	27.5	0.50	0.095	ppbv		51.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.67	0.20	0.061	ppbv		2.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.25	0.20	0.024	ppbv		1.2	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.13	0.20	0.044	ppbv	J	0.46	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	9.2	0.20	0.059	ppbv		23	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.39	0.20	0.048	ppbv		1.2	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.4	0.20	0.024	ppbv		6.9	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.58	0.20	0.028	ppbv		2.9	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.60	0.20	0.032	ppbv		1.8	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.33	0.20	0.040	ppbv		1.2	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.042	ppbv		1.5	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.22	0.20	0.031	ppbv		0.96	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.13	0.20	0.031	ppbv	J	0.56	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.36	0.20	0.031	ppbv		1.6	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		65-128%

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

Report of Analysis

Client Sample ID:	SSV BASEMENT		
Lab Sample ID:	JB15168-7	**Date Sampled:**	08/29/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A649	**Date Received:**	08/31/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30095.D	1.48	09/06/12	YXC	n/a	n/a	V3W1171
Run #2							

	Initial Volume
Run #1	148 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	5.2	0.80	0.15	ppbv		12	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.96	0.80	0.18	ppbv		3.1	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.80	0.15	ppbv	J	2.4	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID: SSV BASEMENT
Lab Sample ID: JB15168-7
Matrix: AIR - Soil Vapor Comp. Summa ID: A649
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	13.7	2.0	0.38	ppbv		25.8	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.7	0.80	0.12	ppbv		7.4	3.5	ug/m3
141-78-6	88	Ethyl Acetate	0.75	0.80	0.24	ppbv	J	2.7	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.48	0.80	0.096	ppbv	J	2.4	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.39	0.80	0.18	ppbv	J	1.4	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.1	0.80	0.23	ppbv		2.7	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.84	0.80	0.11	ppbv		2.9	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.4	0.80	0.19	ppbv		10	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	0.46	0.80	0.11	ppbv	J	2.0	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.7	0.80	0.096	ppbv		8.4	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.48	0.80	0.11	ppbv	J	2.4	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	20.9	0.16	0.11	ppbv		142	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	4.8	0.80	0.19	ppbv		14	2.4	ug/m3
108-88-3	92.14	Toluene	8.3	0.80	0.16	ppbv		31	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.86	0.80	0.17	ppbv		4.8	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	5.8	0.80	0.12	ppbv		25	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.9	0.80	0.12	ppbv		8.3	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	7.7	0.80	0.12	ppbv		33	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

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

Report of Analysis

Client Sample ID: IA BASEMENT
Lab Sample ID: JB15168-8
Matrix: AIR - Indoor Air Comp. Summa ID: A322
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30061.D	1.48	09/05/12	YXC	n/a	n/a	V3W1170
Run #2							

	Initial Volume
Run #1	592 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.4	0.20	0.036	ppbv		15	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.046	ppbv	J	0.45	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.64	0.20	0.037	ppbv		1.3	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

Report of Analysis

Client Sample ID: IA BASEMENT
Lab Sample ID: JB15168-8
Matrix: AIR - Indoor Air Comp. Summa ID: A322
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	64.4	0.50	0.095	ppbv	E	121	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.54	0.20	0.061	ppbv		1.9	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.11	0.20	0.024	ppbv	J	0.54	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	5.1	0.20	0.059	ppbv		13	0.49	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.20	0.027	ppbv		4.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.31	0.20	0.048	ppbv		0.91	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.53	0.20	0.024	ppbv		2.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.20	0.20	0.028	ppbv		0.98	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.039	0.040	0.028	ppbv	J	0.26	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.37	0.20	0.040	ppbv		1.4	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.26	0.20	0.031	ppbv		1.1	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.12	0.20	0.031	ppbv	J	0.52	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.38	0.20	0.031	ppbv		1.7	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		65-128%

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

Report of Analysis

Client Sample ID: SV-X
Lab Sample ID: JB15168-9
Matrix: AIR - Soil Vapor Comp. Summa ID: A989
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30096.D	1.55	09/06/12	YXC	n/a	n/a	V3W1171
Run #2							

	Initial Volume
Run #1	155 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	54.2	0.80	0.15	ppbv		129	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	55.2	0.80	0.18	ppbv		176	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.73	0.80	0.13	ppbv	J	2.3	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	1.1	0.80	0.11	ppbv		5.4	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.80	0.15	ppbv	J	2.6	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID: SV-X
Lab Sample ID: JB15168-9
Matrix: AIR - Soil Vapor Comp. Summa ID: A989
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/29/12
Date Received: 08/31/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	50.6	2.0	0.38	ppbv		95.3	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	2.6	0.80	0.12	ppbv		11	3.5	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.80	0.24	ppbv		5.4	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.80	0.80	0.096	ppbv		3.9	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.90	0.80	0.13	ppbv		3.7	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	1.2	0.80	0.18	ppbv		4.2	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.9	0.80	0.23	ppbv		9.6	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	11.6	0.80	0.19	ppbv		34.2	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.57	0.80	0.14	ppbv	J	2.3	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	0.54	0.80	0.11	ppbv	J	2.3	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	3.1	0.80	0.096	ppbv		15	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.80	0.80	0.11	ppbv		3.9	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.46	0.80	0.11	ppbv	J	2.1	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.7	0.80	0.13	ppbv		8.2	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	3.8	0.16	0.11	ppbv		26	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	13.4	0.80	0.19	ppbv		39.5	2.4	ug/m3
108-88-3	92.14	Toluene	16.1	0.80	0.16	ppbv		60.7	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40	0.80	0.17	ppbv	J	2.2	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	8.9	0.80	0.12	ppbv		39	3.5	ug/m3
95-47-6	106.2	o-Xylene	2.9	0.80	0.12	ppbv		13	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	11.8	0.80	0.12	ppbv		51.3	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

CHAIN OF CUSTODY
Air Sampling Field Data Sheet

ACCUTEST LABORATORIES
2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking # | Bottle Order Control #
Lab Quote # | Lab Job # JB15168

PAGE 1 OF 1

Client / Reporting Information

Company Name: Ca Rich Consultants, Inc.
Address: 17 DuPont St
City: Plainview State: NY Zip: 11803
Project Contact: Jason Cooper E-mail: JCooper@carichinc.com
Phone #: (516) 576-8844 Fax #: (516) 576-0093
Sampler(s) Name(s): Jessica Frascia, Tom Brown

Project Name: Elks Plaza
Street: West Merrick Rd
City: Freeport State: NY
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 70° Maximum:
Stop: 80° Minimum:

Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:

Other weather comment:

Requested Analysis

TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis
-1	AA-1	A	A304	6L	FC159	8/29/12	7:15	30	70°	JP/TB	8/29/12	2:16	8	80°	JP/TB	X
-2	RISV-1	SV	A316	6L	FC402	8/29/12	7:37	24	70°	JP/TB	8/29/12	2:30	8	80°	JP/TB	X
-3	SSV B-12	SV	A754	6L	FC131	8/29/12	8:07	30	70°	JP/TB	8/29/12	2:57	8	80°	JP/TB	X
-4	IA B-12	I	A203	6L	FC502	8/29/12	8:03	30	70°	JP/TB	8/29/12	2:55	8	80°	JP/TB	X
-5	SSV G-5	SV	A194	6L	FC190	8/29/12	8:10	30	70°	JP/TB	8/29/12	3:03	8	80°	JP/TB	X
-6	IA G-5	I	A643	6L	FC243	8/29/12	8:19	30	70°	JP/TB	8/29/12	3:30	8	80°	JP/TB	X
-7	SSV Basement	SV	A649	6L	FC416	8/29/12	8:38	30	70°	JP/TB	8/29/12	3:37	8	80°	JP/TB	X
-8	IA Basement	I	A322	6L	FC257	8/29/12	8:38	30	70°	JP/TB	8/29/12	3:40	10	80°	JP/TB	X
-9	SV-X	SV	A989	6L	FC379	8/29/12	—	30	70°	JP/TB	8/29/12	—	8	80°	JP/TB	X

Turnaround Time (Business Days)

Standard - 15 Days	X
10 Day	
5 Day	
3 Day	
2 Day	
1 Day	
Other	

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A	
Comm B	X
Reduced T2	
Full T1	
Other:	

Comments / Remarks

Summa

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Date Time:			Date Time:	
Relinquished by Laboratory: 1		Received by: 1	Relinquished by: 2	8/30/12	Received by: 2 FedEx
Relinquished by: 3 FedEx	Date Time: 8/31/12 1230	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #		

Job# JB15168
(REQUIRED)

Unused Summa Return Form

Client CA Rich Office Glenview, NY
Project Elks Plaza

#Summas 1 #Flow Controllers 1

Summa#'s 1849 -10 FC346

Rec'd By _____ Rec'd Date/Time 8/31/12 1030

Rec'd via FedX
(Attach any client paperwork, documentation, or airbills if available)

Notes _____

JB15168: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15168 **Client:** **Project:**

Date / Time Received: 8/31/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB15168: Chain of Custody
Page 3 of 3

Summa Canister and Flow Controller Log

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Received: 08/31/12

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A304	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-1	08/31/12	HT	7			1
A316	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-2	08/31/12	HT	3.5			1
A754	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-3	08/31/12	HT	9.5		1.1	1.58
A203	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-4	08/31/12	HT	8.5		1.3	1.52
A194	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-5	08/31/12	HT	7			1
A643	6	29.4	08/16/12	YXC	CP5532	W37131.D	JB15168-6	08/31/12	HT	8		1.2	1.48
A649	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-7	08/31/12	HT	8		1.2	1.48
A322	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-8	08/31/12	HT	8		1.2	1.48
A989	6	29.4	08/16/12	YXC	CP5607	3W29697.D	JB15168-9	08/31/12	HT	9		1.2	1.55

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC131	08/16/12	YXC	10.2	8	08/31/12	HT	10.5
FC169	08/16/12	YXC	10.2	8	08/31/12	HT	10.2
FC243	08/16/12	YXC	10.2	8	08/31/12	HT	10.4
FC257	08/16/12	YXC	10.2	8	08/31/12	HT	10
FC292	08/16/12	YXC	10.2	8	08/31/12	HT	10.5
FC346	08/16/12	YXC	10.2	8	08/31/12	HT	10.9
FC379	08/16/12	YXC	10.2	8	08/31/12	HT	10.2
FC402	08/16/12	YXC	10.2	8	08/31/12	HT	10.5
FC416	08/16/12	YXC	10.2	8	08/31/12	HT	10.2
FC507	08/16/12	YXC	10.2	8	08/31/12	HT	10.5

Accutest Bottle Order(s):
TE-8/15/2012-4

Prep Date	Room Temp(F)	Bar Pres "Hg
08/16/12	70	29.92

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1170-MB	3W30040.D	1	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1170-MB	3W30040.D	1	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1170-MB	3W30040.D	1	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	83%	65-128%

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1171-MB	3W30071.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1171-MB	3W30071.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1171-MB	3W30071.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	84%	65-128%

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1172-MB	3W30105.D	1	09/06/12	YXC	n/a	n/a	V3W1172

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	85%	65-128%

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-MB	W37128.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here applies to the following samples: **Method:** TO-15

VW1505-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-MB	W37128.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here applies to the following samples: **Method:** TO-15

VW1505-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-MB	W37128.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here applies to the following samples: **Method:** TO-15

VW1505-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	65-128%

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-MB	3W29683.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here applies to the following samples: **Method:** TO-15

V3W1158-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-MB	3W29683.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here applies to the following samples: **Method:** TO-15

V3W1158-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-MB	3W29683.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here applies to the following samples: **Method:** TO-15

V3W1158-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1170-BS	3W30038.D	1	09/04/12	YXC	n/a	n/a	V3W1170
V3W1170-BSD	3W30039.D	1	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	10.9	109	9.2	92	17	70-130/30
106-99-0	1,3-Butadiene	10	10.2	102	9.4	94	8	70-130/30
71-43-2	Benzene	10	8.5	85	8.1	81	5	70-130/30
75-27-4	Bromodichloromethane	10	9.4	94	8.7	87	8	70-130/30
75-25-2	Bromoform	10	9.4	94	9.2	92	2	70-130/30
74-83-9	Bromomethane	10	9.5	95	9.0	90	5	70-130/30
593-60-2	Bromoethene	10	10.2	102	9.6	96	6	70-130/30
100-44-7	Benzyl Chloride	10	9.2	92	8.8	88	4	70-130/30
75-15-0	Carbon disulfide	10	8.2	82	7.7	77	6	70-130/30
108-90-7	Chlorobenzene	10	8.9	89	8.6	86	3	70-130/30
75-00-3	Chloroethane	10	10.1	101	9.5	95	6	70-130/30
67-66-3	Chloroform	10	10.6	106	9.9	99	7	70-130/30
74-87-3	Chloromethane	10	11.0	110	10.1	101	9	70-130/30
107-05-1	3-Chloropropene	10	9.9	99	9.3	93	6	70-130/30
95-49-8	2-Chlorotoluene	10	9.2	92	9.0	90	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.9	109	10.4	104	5	70-130/30
110-82-7	Cyclohexane	10	8.3	83	8.2	82	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.7	107	9.7	97	10	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.4	94	8.9	89	5	70-130/30
106-93-4	1,2-Dibromoethane	10	9.0	90	8.6	86	5	70-130/30
107-06-2	1,2-Dichloroethane	10	12.3	123	11.0	110	11	70-130/30
78-87-5	1,2-Dichloropropane	10	9.7	97	8.9	89	9	70-130/30
123-91-1	1,4-Dioxane	10	9.2	92	8.6	86	7	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.2	102	9.6	96	6	70-130/30
124-48-1	Dibromochloromethane	10	9.2	92	9.1	91	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.8	88	8.4	84	5	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.8	98	9.2	92	6	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10	100	9.1	91	9	70-130/30
541-73-1	m-Dichlorobenzene	10	9.4	94	9.2	92	2	70-130/30
95-50-1	o-Dichlorobenzene	10	10.1	101	9.7	97	4	70-130/30
106-46-7	p-Dichlorobenzene	10	9.4	94	9.2	92	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.5	105	9.5	95	10	70-130/30
64-17-5	Ethanol	10	10.4	104	8.8	88	17	70-130/30
100-41-4	Ethylbenzene	10	8.6	86	8.2	82	5	70-130/30
141-78-6	Ethyl Acetate	10	10.3	103	8.9	89	15	70-130/30
622-96-8	4-Ethyltoluene	10	9.6	96	9.2	92	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1170-BS	3W30038.D	1	09/04/12	YXC	n/a	n/a	V3W1170
V3W1170-BSD	3W30039.D	1	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.2	92	9.0	90	2	70-130/30
76-14-2	Freon 114	10	8.9	89	8.2	82	8	70-130/30
142-82-5	Heptane	10	9.6	96	8.8	88	9	70-130/30
87-68-3	Hexachlorobutadiene	10	10.0	100	9.1	91	9	70-130/30
110-54-3	Hexane	10	10.1	101	9.2	92	9	70-130/30
591-78-6	2-Hexanone	10	9.4	94	8.9	89	5	70-130/30
67-63-0	Isopropyl Alcohol	10	10.3	103	8.9	89	15	70-130/30
75-09-2	Methylene chloride	10	8.8	88	8.2	82	7	70-130/30
78-93-3	Methyl ethyl ketone	10	10.1	101	9.1	91	10	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.1	101	9.5	95	6	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.9	99	9.0	90	10	70-130/30
80-62-6	Methylmethacrylate	10	9.2	92	8.4	84	9	70-130/30
115-07-1	Propylene	10	11.9	119	10.7	107	11	70-130/30
100-42-5	Styrene	10	9.4	94	9.3	93	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.5	105	9.9	99	6	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.8	108	10.5	105	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.6	96	8.6	86	11	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.3	83	9.0	90	8	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.2	102	9.8	98	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.6	96	9.4	94	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.1	91	8.5	85	7	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.6	106	9.4	94	12	70-130/30
127-18-4	Tetrachloroethylene	10	8.2	82	8.2	82	0	70-130/30
109-99-9	Tetrahydrofuran	10	10.5	105	9.2	92	13	70-130/30
108-88-3	Toluene	10	8.8	88	8.2	82	7	70-130/30
79-01-6	Trichloroethylene	10	8.9	89	8.5	85	5	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	9.5	95	6	70-130/30
75-01-4	Vinyl chloride	10	10.7	107	9.7	97	10	70-130/30
108-05-4	Vinyl Acetate	10	11.2	112	9.7	97	14	70-130/30
	m,p-Xylene	20	16.7	84	16.3	82	2	70-130/30
95-47-6	o-Xylene	10	8.4	84	8.1	81	4	70-130/30
1330-20-7	Xylenes (total)	30	25.1	84	24.5	82	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1170-BS	3W30038.D	1	09/04/12	YXC	n/a	n/a	V3W1170
V3W1170-BSD	3W30039.D	1	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1171-BS	3W30069.D	1	09/05/12	YXC	n/a	n/a	V3W1171
V3W1171-BSD	3W30070.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.8	98	10.8	108	10	70-130/30
106-99-0	1,3-Butadiene	10	10.3	103	9.9	99	4	70-130/30
71-43-2	Benzene	10	8.8	88	8.2	82	7	70-130/30
75-27-4	Bromodichloromethane	10	9.7	97	9.0	90	7	70-130/30
75-25-2	Bromoform	10	9.3	93	9.2	92	1	70-130/30
74-83-9	Bromomethane	10	9.4	94	8.8	88	7	70-130/30
593-60-2	Bromoethene	10	10.1	101	9.6	96	5	70-130/30
100-44-7	Benzyl Chloride	10	9.0	90	9.5	95	5	70-130/30
75-15-0	Carbon disulfide	10	8.2	82	7.9	79	4	70-130/30
108-90-7	Chlorobenzene	10	8.8	88	8.6	86	2	70-130/30
75-00-3	Chloroethane	10	10.1	101	9.7	97	4	70-130/30
67-66-3	Chloroform	10	10.5	105	10.2	102	3	70-130/30
74-87-3	Chloromethane	10	11.1	111	10.6	106	5	70-130/30
107-05-1	3-Chloropropene	10	9.5	95	9.2	92	3	70-130/30
95-49-8	2-Chlorotoluene	10	9.0	90	9.0	90	0	70-130/30
56-23-5	Carbon tetrachloride	10	10.8	108	10.5	105	3	70-130/30
110-82-7	Cyclohexane	10	8.7	87	8.3	83	5	70-130/30
75-34-3	1,1-Dichloroethane	10	10.6	106	10.2	102	4	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.4	94	9.1	91	3	70-130/30
106-93-4	1,2-Dibromoethane	10	8.9	89	8.6	86	3	70-130/30
107-06-2	1,2-Dichloroethane	10	12.3	123	11.6	116	6	70-130/30
78-87-5	1,2-Dichloropropane	10	9.9	99	9.2	92	7	70-130/30
123-91-1	1,4-Dioxane	10	9.6	96	8.7	87	10	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.2	102	9.4	94	8	70-130/30
124-48-1	Dibromochloromethane	10	9.2	92	8.8	88	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.6	86	8.5	85	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.5	95	9.3	93	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.1	101	9.3	93	8	70-130/30
541-73-1	m-Dichlorobenzene	10	9.3	93	9.3	93	0	70-130/30
95-50-1	o-Dichlorobenzene	10	9.4	94	10.0	100	6	70-130/30
106-46-7	p-Dichlorobenzene	10	9.0	90	9.4	94	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.7	107	10	100	7	70-130/30
64-17-5	Ethanol	10	10.5	105	10.5	105	0	70-130/30
100-41-4	Ethylbenzene	10	8.4	84	8.5	85	1	70-130/30
141-78-6	Ethyl Acetate	10	10.0	100	10.5	105	5	70-130/30
622-96-8	4-Ethyltoluene	10	9.3	93	9.8	98	5	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1171-BS	3W30069.D	1	09/05/12	YXC	n/a	n/a	V3W1171
V3W1171-BSD	3W30070.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.1	91	8.7	87	4	70-130/30
76-14-2	Freon 114	10	8.8	88	8.2	82	7	70-130/30
142-82-5	Heptane	10	10.0	100	9.6	96	4	70-130/30
87-68-3	Hexachlorobutadiene	10	9.6	96	10.2	102	6	70-130/30
110-54-3	Hexane	10	9.9	99	9.8	98	1	70-130/30
591-78-6	2-Hexanone	10	9.4	94	9.4	94	0	70-130/30
67-63-0	Isopropyl Alcohol	10	10.3	103	10.1	101	2	70-130/30
75-09-2	Methylene chloride	10	8.8	88	9.1	91	3	70-130/30
78-93-3	Methyl ethyl ketone	10	9.7	97	9.8	98	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.8	108	10.4	104	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.5	95	10	100	5	70-130/30
80-62-6	Methylmethacrylate	10	9.2	92	9.5	95	3	70-130/30
115-07-1	Propylene	10	12.0	120	11.3	113	6	70-130/30
100-42-5	Styrene	10	9.2	92	9.7	97	5	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.5	105	10	100	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.5	105	10.8	108	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.6	96	8.9	89	8	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.8	88	9.5	95	8	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.9	99	10.4	104	5	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.3	93	9.9	99	6	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.5	95	8.9	89	7	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.6	106	10.1	101	5	70-130/30
127-18-4	Tetrachloroethylene	10	8.1	81	7.7	77	5	70-130/30
109-99-9	Tetrahydrofuran	10	9.7	97	10.5	105	8	70-130/30
108-88-3	Toluene	10	8.8	88	8.3	83	6	70-130/30
79-01-6	Trichloroethylene	10	9.2	92	8.6	86	7	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	9.6	96	5	70-130/30
75-01-4	Vinyl chloride	10	10.7	107	10.1	101	6	70-130/30
108-05-4	Vinyl Acetate	10	10.2	102	10.4	104	2	70-130/30
	m,p-Xylene	20	16.3	82	16.5	83	1	70-130/30
95-47-6	o-Xylene	10	8.3	83	8.4	84	1	70-130/30
1330-20-7	Xylenes (total)	30	24.6	82	24.9	83	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1171-BS	3W30069.D	1	09/05/12	YXC	n/a	n/a	V3W1171
V3W1171-BSD	3W30070.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	100%	103%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1172-BS	3W30103.D	1	09/06/12	YXC	n/a	n/a	V3W1172
V3W1172-BSD	3W30104.D	1	09/06/12	YXC	n/a	n/a	V3W1172

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
540-84-1	2,2,4-Trimethylpentane	10	8.5	85	8.9	89	5	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-BS	W37126.D	1	06/27/12	YMH	n/a	n/a	VW1505
VW1505-BSD	W37127.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here applies to the following samples: **Method:** TO-15

VW1505-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.6	96	9.1	91	5	70-130/30
106-99-0	1,3-Butadiene	10	10.2	102	9.7	97	5	70-130/30
71-43-2	Benzene	10	10.5	105	9.7	97	8	70-130/30
75-27-4	Bromodichloromethane	10	10.5	105	9.6	96	9	70-130/30
75-25-2	Bromoform	10	12.1	121	10.9	109	10	70-130/30
74-83-9	Bromomethane	10	10.6	106	9.9	99	7	70-130/30
593-60-2	Bromoethene	10	10.7	107	10.0	100	7	70-130/30
100-44-7	Benzyl Chloride	10	12.8	128	11.2	112	13	70-130/30
75-15-0	Carbon disulfide	10	7.6	76	7.2	72	5	70-130/30
108-90-7	Chlorobenzene	10	11.1	111	10.1	101	9	70-130/30
75-00-3	Chloroethane	10	10.6	106	10.1	101	5	70-130/30
67-66-3	Chloroform	10	10.8	108	10.2	102	6	70-130/30
74-87-3	Chloromethane	10	11.1	111	10.9	109	2	70-130/30
107-05-1	3-Chloropropene	10	11.1	111	10.4	104	7	70-130/30
95-49-8	2-Chlorotoluene	10	11.1	111	10.2	102	8	70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	9.9	99	6	70-130/30
110-82-7	Cyclohexane	10	10.2	102	9.4	94	8	70-130/30
75-34-3	1,1-Dichloroethane	10	10.6	106	10.0	100	6	70-130/30
75-35-4	1,1-Dichloroethylene	10	11.4	114	10.9	109	4	70-130/30
106-93-4	1,2-Dibromoethane	10	11.0	110	10.0	100	10	70-130/30
107-06-2	1,2-Dichloroethane	10	11.3	113	10.7	107	5	70-130/30
78-87-5	1,2-Dichloropropane	10	10.4	104	9.7	97	7	70-130/30
123-91-1	1,4-Dioxane	10	12.6	126	10.9	109	14	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.2	102	9.7	97	5	70-130/30
124-48-1	Dibromochloromethane	10	11.4	114	10.4	104	9	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.9	89	8.4	84	6	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.3	103	9.6	96	7	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.6	106	9.8	98	8	70-130/30
541-73-1	m-Dichlorobenzene	10	12.1	121	11.0	110	10	70-130/30
95-50-1	o-Dichlorobenzene	10	12.1	121	11.0	110	10	70-130/30
106-46-7	p-Dichlorobenzene	10	12.1	121	11.0	110	10	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.9	109	10.1	101	8	70-130/30
64-17-5	Ethanol	10	10.7	107	10.1	101	6	70-130/30
100-41-4	Ethylbenzene	10	10.5	105	9.7	97	8	70-130/30
141-78-6	Ethyl Acetate	10	10	100	9.4	94	6	70-130/30
622-96-8	4-Ethyltoluene	10	12.0	120	11.0	110	9	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-BS	W37126.D	1	06/27/12	YMH	n/a	n/a	VW1505
VW1505-BSD	W37127.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here applies to the following samples: **Method:** TO-15

VW1505-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.2	112	10.4	104	7	70-130/30
76-14-2	Freon 114	10	10.4	104	9.8	98	6	70-130/30
142-82-5	Heptane	10	9.9	99	9.3	93	6	70-130/30
87-68-3	Hexachlorobutadiene	10	11.3	113	10.2	102	10	70-130/30
110-54-3	Hexane	10	9.5	95	9.1	91	4	70-130/30
591-78-6	2-Hexanone	10	10.7	107	9.6	96	11	70-130/30
67-63-0	Isopropyl Alcohol	10	10.2	102	9.6	96	6	70-130/30
75-09-2	Methylene chloride	10	11.1	111	10.5	105	6	70-130/30
78-93-3	Methyl ethyl ketone	10	10.3	103	9.6	96	7	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.5	105	9.5	95	10	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.5	95	9.0	90	5	70-130/30
80-62-6	Methylmethacrylate	10	10.3	103	9.3	93	10	70-130/30
115-07-1	Propylene	10	9.6	96	9.8	98	2	70-130/30
100-42-5	Styrene	10	11.1	111	10.1	101	9	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.6	106	9.9	99	7	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.3	113	10.3	103	9	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.6	106	9.9	99	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.2	102	8.9	89	14	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.6	116	10.6	106	9	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.3	113	10.3	103	9	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.3	103	9.6	96	7	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.2	102	9.5	95	7	70-130/30
127-18-4	Tetrachloroethylene	10	10.1	101	9.1	91	10	70-130/30
109-99-9	Tetrahydrofuran	10	10.4	104	9.8	98	6	70-130/30
108-88-3	Toluene	10	10.5	105	9.7	97	8	70-130/30
79-01-6	Trichloroethylene	10	10.8	108	9.9	99	9	70-130/30
75-69-4	Trichlorofluoromethane	10	10.6	106	9.9	99	7	70-130/30
75-01-4	Vinyl chloride	10	10.2	102	9.7	97	5	70-130/30
108-05-4	Vinyl Acetate	10	11.3	113	10.8	108	5	70-130/30
	m,p-Xylene	20	21.4	107	19.5	98	9	70-130/30
95-47-6	o-Xylene	10	10.7	107	9.8	98	9	70-130/30
1330-20-7	Xylenes (total)	30	32.1	107	29.3	98	9	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-BS	W37126.D	1	06/27/12	YMH	n/a	n/a	VW1505
VW1505-BSD	W37127.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here applies to the following samples: **Method:** TO-15

VW1505-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-BS	3W29681.D	1	08/14/12	YXC	n/a	n/a	V3W1158
V3W1158-BSD	3W29682.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here applies to the following samples: **Method:** TO-15

V3W1158-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	7.6	76	7.7	77	1	70-130/30
106-99-0	1,3-Butadiene	10	8.1	81	8.5	85	5	70-130/30
71-43-2	Benzene	10	8.1	81	8.3	83	2	70-130/30
75-27-4	Bromodichloromethane	10	8.8	88	8.9	89	1	70-130/30
75-25-2	Bromoform	10	9.7	97	10	100	3	70-130/30
74-83-9	Bromomethane	10	8.3	83	8.5	85	2	70-130/30
593-60-2	Bromoethene	10	9.0	90	9.3	93	3	70-130/30
100-44-7	Benzyl Chloride	10	8.8	88	8.9	89	1	70-130/30
75-15-0	Carbon disulfide	10	7.0	70	7.0	70	0	70-130/30
108-90-7	Chlorobenzene	10	9.0	90	9.3	93	3	70-130/30
75-00-3	Chloroethane	10	8.4	84	8.6	86	2	70-130/30
67-66-3	Chloroform	10	9.0	90	9.0	90	0	70-130/30
74-87-3	Chloromethane	10	8.6	86	8.5	85	1	70-130/30
107-05-1	3-Chloropropene	10	8.7	87	8.6	86	1	70-130/30
95-49-8	2-Chlorotoluene	10	9.1	91	9.3	93	2	70-130/30
56-23-5	Carbon tetrachloride	10	9.4	94	9.4	94	0	70-130/30
110-82-7	Cyclohexane	10	8.2	82	8.3	83	1	70-130/30
75-34-3	1,1-Dichloroethane	10	9.0	90	8.9	89	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.4	84	8.6	86	2	70-130/30
106-93-4	1,2-Dibromoethane	10	9.1	91	9.3	93	2	70-130/30
107-06-2	1,2-Dichloroethane	10	9.9	99	10.1	101	2	70-130/30
78-87-5	1,2-Dichloropropane	10	8.6	86	8.6	86	0	70-130/30
123-91-1	1,4-Dioxane	10	8.3	83	8.7	87	5	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.6	86	8.7	87	1	70-130/30
124-48-1	Dibromochloromethane	10	9.5	95	9.8	98	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	7.9	79	7.7	77	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.5	85	8.6	86	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.1	91	9.2	92	1	70-130/30
541-73-1	m-Dichlorobenzene	10	9.6	96	9.8	98	2	70-130/30
95-50-1	o-Dichlorobenzene	10	9.8	98	9.8	98	0	70-130/30
106-46-7	p-Dichlorobenzene	10	9.8	98	10.1	101	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.4	94	9.5	95	1	70-130/30
64-17-5	Ethanol	10	7.6	76	8.1	81	6	70-130/30
100-41-4	Ethylbenzene	10	8.2	82	8.5	85	4	70-130/30
141-78-6	Ethyl Acetate	10	7.7	77	7.5	75	3	70-130/30
622-96-8	4-Ethyltoluene	10	8.9	89	9.1	91	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-BS	3W29681.D	1	08/14/12	YXC	n/a	n/a	V3W1158
V3W1158-BSD	3W29682.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here applies to the following samples: **Method:** TO-15

V3W1158-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.8	88	8.8	88	0	70-130/30
76-14-2	Freon 114	10	7.4	74	7.5	75	1	70-130/30
142-82-5	Heptane	10	8.4	84	8.4	84	0	70-130/30
87-68-3	Hexachlorobutadiene	10	7.8	78	7.4	74	5	70-130/30
110-54-3	Hexane	10	8.2	82	8.2	82	0	70-130/30
591-78-6	2-Hexanone	10	7.7	77	8.0	80	4	70-130/30
67-63-0	Isopropyl Alcohol	10	7.6	76	7.9	79	4	70-130/30
75-09-2	Methylene chloride	10	7.9	79	7.7	77	3	70-130/30
78-93-3	Methyl ethyl ketone	10	7.7	77	8.0	80	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.6	86	8.7	87	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	7.6	76	7.7	77	1	70-130/30
80-62-6	Methylmethacrylate	10	7.7	77	7.8	78	1	70-130/30
115-07-1	Propylene	10	8.8	88	9.0	90	2	70-130/30
100-42-5	Styrene	10	9.1	91	9.3	93	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.2	92	9.2	92	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.9	99	10.0	100	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	8.5	85	8.6	86	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	7.7	77	7.0	70	10	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.3	93	9.5	95	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.0	90	9.1	91	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.5	85	8.4	84	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.4	84	8.6	86	2	70-130/30
127-18-4	Tetrachloroethylene	10	8.9	89	9.1	91	2	70-130/30
109-99-9	Tetrahydrofuran	10	8.0	80	7.9	79	1	70-130/30
108-88-3	Toluene	10	8.0	80	8.3	83	4	70-130/30
79-01-6	Trichloroethylene	10	8.6	86	8.6	86	0	70-130/30
75-69-4	Trichlorofluoromethane	10	8.8	88	8.9	89	1	70-130/30
75-01-4	Vinyl chloride	10	8.6	86	8.7	87	1	70-130/30
108-05-4	Vinyl Acetate	10	9.0	90	8.9	89	1	70-130/30
	m,p-Xylene	20	16.6	83	17.0	85	2	70-130/30
95-47-6	o-Xylene	10	8.2	82	8.5	85	4	70-130/30
1330-20-7	Xylenes (total)	30	24.8	83	25.5	85	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-BS	3W29681.D	1	08/14/12	YXC	n/a	n/a	V3W1158
V3W1158-BSD	3W29682.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here applies to the following samples: **Method:** TO-15

V3W1158-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB14900-2QDUP	3W30051.D	1.48	09/04/12	YXC	n/a	n/a	V3W1170
JB14900-2Q	3W30050.D	1.48	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Compound	JB14900-2Q ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	14.3		14.2		1	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	0.58		0.58		0	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	ND		ND		nc	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	0.13	J	0.13	J	0	12
74-87-3	Chloromethane	0.55		0.64		15	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	0.15	J	0.16	J	6	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	0.12	J	0.11	J	9	20
107-06-2	1,2-Dichloroethane	0.56		0.54		4	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	0.40		0.47		16	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	50.3	E	51.7	E	3	33
100-41-4	Ethylbenzene	0.22		0.23		4	15
141-78-6	Ethyl Acetate	13.0		11.9		9	20
622-96-8	4-Ethyltoluene	ND		ND		nc	13

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB14900-2QDUP	3W30051.D	1.48	09/04/12	YXC	n/a	n/a	V3W1170
JB14900-2Q	3W30050.D	1.48	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Compound	JB14900-2Q ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	0.26		0.25		4	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	0.54		0.54		0	17
591-78-6	2-Hexanone	ND		ND		nc	20
67-63-0	Isopropyl Alcohol	2.1		2.0		5	26
75-09-2	Methylene chloride	0.28		0.32		13	26
78-93-3	Methyl ethyl ketone	1.3		1.3		0	21
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	ND		ND		nc	16
100-42-5	Styrene	0.55		0.54		2	11
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	0.22		0.22		0	19
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	13
540-84-1	2,2,4-Trimethylpentane	0.30		0.30		0	18
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	21
127-18-4	Tetrachloroethylene	ND		ND		nc	17
109-99-9	Tetrahydrofuran	0.17	J	0.17	J	0	20
108-88-3	Toluene	2.9		2.7		7	20
79-01-6	Trichloroethylene	ND		ND		nc	13
75-69-4	Trichlorofluoromethane	0.25		0.25		0	21
75-01-4	Vinyl chloride	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	0.64		0.62		3	26
95-47-6	o-Xylene	0.23		0.25		8	20
1330-20-7	Xylenes (total)	0.87		0.87		0	26

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB14900-2QDUP	3W30051.D	1.48	09/04/12	YXC	n/a	n/a	V3W1170
JB14900-2Q	3W30050.D	1.48	09/04/12	YXC	n/a	n/a	V3W1170

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-1, JB15168-4, JB15168-6, JB15168-8

CAS No.	Surrogate Recoveries	DUP	JB14900-2Q	Limits
460-00-4	4-Bromofluorobenzene	85%	86%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15068-1DUP	3W30082.D	1	09/05/12	YXC	n/a	n/a	V3W1171
JB15068-1	3W30081.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Compound	JB15068-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	101		95.7		5	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	0.89		0.83		7	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	ND		ND		nc	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	0.60	J	0.57	J	5	12
74-87-3	Chloromethane	2.4		2.2		9	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	ND		ND		nc	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	0.99		0.92		7	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	7.2		6.5		10	20
75-71-8	Dichlorodifluoromethane	0.52	J	0.51	J	2	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	385	E	362	E	6	33
100-41-4	Ethylbenzene	0.73	J	0.73	J	0	15
141-78-6	Ethyl Acetate	8.5		7.8		9	20
622-96-8	4-Ethyltoluene	0.60	J	0.59	J	2	13

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15068-1DUP	3W30082.D	1	09/05/12	YXC	n/a	n/a	V3W1171
JB15068-1	3W30081.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Compound	JB15068-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	0.90		0.89		1	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	ND		ND		nc	17
591-78-6	2-Hexanone	0.47	J	0.39	J	19	20
67-63-0	Isopropyl Alcohol	8.2		7.8		5	26
75-09-2	Methylene chloride	ND		ND		nc	26
78-93-3	Methyl ethyl ketone	6.7		6.8		1	21
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	ND		ND		nc	16
100-42-5	Styrene	1.1		1.1		0	11
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	5.6		5.5		2	19
108-67-8	1,3,5-Trimethylbenzene	1.2		1.2		0	13
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	18
75-65-0	Tertiary Butyl Alcohol	2.1		1.9		10	21
127-18-4	Tetrachloroethylene	1.4		1.3		7	17
109-99-9	Tetrahydrofuran	3.3		3.7		11	20
108-88-3	Toluene	67.4		64.5		4	20
79-01-6	Trichloroethylene	ND		ND		nc	13
75-69-4	Trichlorofluoromethane	1.3		1.4		7	21
75-01-4	Vinyl chloride	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	3.2		3.1		3	26
95-47-6	o-Xylene	4.1		4.1		0	20
1330-20-7	Xylenes (total)	7.3		7.2		1	26

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15068-1DUP	3W30082.D	1	09/05/12	YXC	n/a	n/a	V3W1171
JB15068-1	3W30081.D	1	09/05/12	YXC	n/a	n/a	V3W1171

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2, JB15168-3, JB15168-5, JB15168-7, JB15168-9

CAS No.	Surrogate Recoveries	DUP	JB15068-1	Limits
460-00-4	4-Bromofluorobenzene	93%	93%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15095-5DUP	3W30117.D	1	09/06/12	YXC	n/a	n/a	V3W1172
JB15095-5	3W30118.D	1	09/06/12	YXC	n/a	n/a	V3W1172

The QC reported here applies to the following samples: **Method:** TO-15

JB15168-2

CAS No.	Compound	JB15095-5 ppbv	Q	DUP ppbv	Q	RPD	Limits
540-84-1	2,2,4-Trimethylpentane	0.46	J	0.69	J	40* [a]	18

CAS No.	Surrogate Recoveries	DUP	JB15095-5	Limits
460-00-4	4-Bromofluorobenzene	85%	87%	65-128%

(a) Outside control limits.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-SCC	W37131.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here (Summa A227) applies to the following samples: **Method:** TO-15

Batch CP5532 cleaned 06/21/12: JB15168-6(A643)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-SCC	W37131.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here (Summa A227) applies to the following samples: **Method:** TO-15

Batch CP5532 cleaned 06/21/12: JB15168-6(A643)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1505-SCC	W37131.D	1	06/27/12	YMH	n/a	n/a	VW1505

The QC reported here (Summa A227) applies to the following samples: **Method:** TO-15

Batch CP5532 cleaned 06/21/12: JB15168-6(A643)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	87%	65-128%

Summa Cleaning Certification

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-SCC	3W29697.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here (Summa A304) applies to the following samples: **Method:** TO-15

Batch CP5607 cleaned 08/10/12: JB15168-1(A304), JB15168-2(A316), JB15168-3(A754), JB15168-4(A203), JB15168-5(A194), JB15168-7(A649), JB15168-8(A322), JB15168-9(A989)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-SCC	3W29697.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here (Summa A304) applies to the following samples: **Method:** TO-15

Batch CP5607 cleaned 08/10/12: JB15168-1(A304), JB15168-2(A316), JB15168-3(A754), JB15168-4(A203), JB15168-5(A194), JB15168-7(A649), JB15168-8(A322), JB15168-9(A989)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1158-SCC	3W29697.D	1	08/14/12	YXC	n/a	n/a	V3W1158

The QC reported here (Summa A304) applies to the following samples: **Method:** TO-15

Batch CP5607 cleaned 08/10/12: JB15168-1(A304), JB15168-2(A316), JB15168-3(A754), JB15168-4(A203), JB15168-5(A194), JB15168-7(A649), JB15168-8(A322), JB15168-9(A989)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	82%	65-128%

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1129-BFB
Lab File ID: 3W28937.D
Instrument ID: GCMS3W
Injection Date: 06/29/12
Injection Time: 20:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12221	17.5		Pass
75	30.0 - 66.0% of mass 95	31586	45.3		Pass
95	Base peak, 100% relative abundance	69682	100.0		Pass
96	5.0 - 9.0% of mass 95	4699	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	66349	95.2		Pass
175	4.0 - 9.01% of mass 174	4891	7.02	(7.37) [a]	Pass
176	93.0 - 101.0% of mass 174	65720	94.3	(99.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4258	6.11	(6.48) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1129-IC1129	3W28938.D	06/29/12	21:36	00:40	Initial cal 0.5
V3W1129-IC1129	3W28939.D	06/29/12	22:15	01:19	Initial cal 0.2
V3W1129-IC1129	3W28940.D	06/29/12	22:55	01:59	Initial cal 20
V3W1129-ICC1129	3W28941.D	06/29/12	23:35	02:39	Initial cal 10
V3W1129-IC1129	3W28942.D	06/30/12	00:14	03:18	Initial cal 5.0
V3W1129-IC1129	3W28943.D	06/30/12	01:33	04:37	Initial cal 0.1
V3W1129-IC1129	3W28944.D	06/30/12	02:11	05:15	Initial cal 0.04
V3W1129-IC1129	3W28945.D	06/30/12	02:53	05:57	Initial cal 40

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1158-BFB
Lab File ID: 3W29679.D
Instrument ID: GCMS3W
Injection Date: 08/14/12
Injection Time: 09:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	18880	19.8		Pass
75	30.0 - 66.0% of mass 95	47362	49.8		Pass
95	Base peak, 100% relative abundance	95138	100.0		Pass
96	5.0 - 9.0% of mass 95	6398	6.72		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	91424	96.1		Pass
175	4.0 - 9.01% of mass 174	7455	7.84	(8.15) [a]	Pass
176	93.0 - 101.0% of mass 174	89400	94.0	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	6221	6.54	(6.96) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1158-CC1129	3W29680.D	08/14/12	10:09	00:49	Continuing cal 10
V3W1158-BS	3W29681.D	08/14/12	10:53	01:33	Blank Spike
V3W1158-BSD	3W29682.D	08/14/12	11:37	02:17	Blank Spike Duplicate
V3W1158-MB	3W29683.D	08/14/12	13:03	03:43	Method Blank
V3W1158-SCC	3W29687.D	08/14/12	15:59	06:39	Summa Cleaning Certification
ZZZZZZ	3W29688.D	08/14/12	16:39	07:19	(unrelated sample)
ZZZZZZ	3W29689.D	08/14/12	17:18	07:58	(unrelated sample)
ZZZZZZ	3W29690.D	08/14/12	17:57	08:37	(unrelated sample)
JB13519-1	3W29691.D	08/14/12	18:36	09:16	(used for QC only; not part of job JB15168)
JB13519-1DUP	3W29692.D	08/14/12	19:15	09:55	Duplicate
ZZZZZZ	3W29694.D	08/14/12	20:36	11:16	(unrelated sample)
ZZZZZZ	3W29696.D	08/14/12	22:05	12:45	(unrelated sample)
V3W1158-SCC	3W29697.D	08/14/12	23:05	13:45	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1170-BFB
Lab File ID: 3W30036.D
Instrument ID: GCMS3W
Injection Date: 09/04/12
Injection Time: 09:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	15430	21.8		Pass
75	30.0 - 66.0% of mass 95	35992	50.9		Pass
95	Base peak, 100% relative abundance	70704	100.0		Pass
96	5.0 - 9.0% of mass 95	4659	6.59		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	65157	92.2		Pass
175	4.0 - 9.01% of mass 174	5641	7.98	(8.66) [a]	Pass
176	93.0 - 101.0% of mass 174	62736	88.7	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4264	6.03	(6.80) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1170-CC1129	3W30037.D	09/04/12	09:47	00:38	Continuing cal 10
V3W1170-BS	3W30038.D	09/04/12	10:29	01:20	Blank Spike
V3W1170-BSD	3W30039.D	09/04/12	11:53	02:44	Blank Spike Duplicate
V3W1170-MB	3W30040.D	09/04/12	13:19	04:10	Method Blank
V3W1170-SCC	3W30041.D	09/04/12	13:59	04:50	Summa Cleaning Certification
V3W1170-SCC	3W30042.D	09/04/12	14:40	05:31	Summa Cleaning Certification
ZZZZZZ	3W30043.D	09/04/12	15:18	06:09	(unrelated sample)
ZZZZZZ	3W30044.D	09/04/12	15:57	06:48	(unrelated sample)
ZZZZZZ	3W30045.D	09/04/12	16:36	07:27	(unrelated sample)
ZZZZZZ	3W30046.D	09/04/12	17:14	08:05	(unrelated sample)
ZZZZZZ	3W30047.D	09/04/12	17:53	08:44	(unrelated sample)
ZZZZZZ	3W30048.D	09/04/12	18:32	09:23	(unrelated sample)
JB14900-2Q	3W30050.D	09/04/12	20:34	11:25	(used for QC only; not part of job JB15168)
JB14900-2QDUP	3W30051.D	09/04/12	21:16	12:07	Duplicate
ZZZZZZ	3W30054.D	09/04/12	23:19	14:10	(unrelated sample)
ZZZZZZ	3W30055.D	09/05/12	00:00	14:51	(unrelated sample)
JB15168-1	3W30058.D	09/05/12	02:00	16:51	AA-1
JB15168-4	3W30059.D	09/05/12	02:42	17:33	IA B-12
JB15168-6	3W30060.D	09/05/12	03:25	18:16	IA G-5
JB15168-8	3W30061.D	09/05/12	04:07	18:58	IA BASEMENT
ZZZZZZ	3W30062.D	09/05/12	04:48	19:39	(unrelated sample)
ZZZZZZ	3W30063.D	09/05/12	05:29	20:20	(unrelated sample)
V3W1170-SCC	3W30064.D	09/05/12	06:09	21:00	Summa Cleaning Certification
ZZZZZZ	3W30065.D	09/05/12	06:48	21:39	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample:	V3W1170-BFB	**Injection Date:**	09/04/12
Lab File ID:	3W30036.D	**Injection Time:**	09:09
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W30066.D	09/05/12	07:27	22:18	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1171-BFB
Lab File ID: 3W30067.D
Instrument ID: GCMS3W
Injection Date: 09/05/12
Injection Time: 08:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	13483	22.1		Pass
75	30.0 - 66.0% of mass 95	31128	51.0		Pass
95	Base peak, 100% relative abundance	61069	100.0		Pass
96	5.0 - 9.0% of mass 95	4063	6.65		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	54386	89.1		Pass
175	4.0 - 9.01% of mass 174	4435	7.26	(8.15) [a]	Pass
176	93.0 - 101.0% of mass 174	53578	87.7	(98.5) [a]	Pass
177	5.0 - 9.0% of mass 176	3605	5.90	(6.73) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1171-CC1129	3W30068.D	09/05/12	08:53	00:39	Continuing cal 10
V3W1171-BS	3W30069.D	09/05/12	09:35	01:21	Blank Spike
V3W1171-BSD	3W30070.D	09/05/12	10:58	02:44	Blank Spike Duplicate
V3W1171-MB	3W30071.D	09/05/12	12:28	04:14	Method Blank
V3W1171-SCC	3W30072.D	09/05/12	13:08	04:54	Summa Cleaning Certification
V3W1171-SCC	3W30073.D	09/05/12	13:48	05:34	Summa Cleaning Certification
ZZZZZZ	3W30074.D	09/05/12	14:28	06:14	(unrelated sample)
ZZZZZZ	3W30075.D	09/05/12	15:10	06:56	(unrelated sample)
ZZZZZZ	3W30076.D	09/05/12	15:48	07:34	(unrelated sample)
ZZZZZZ	3W30077.D	09/05/12	16:26	08:12	(unrelated sample)
ZZZZZZ	3W30078.D	09/05/12	17:05	08:51	(unrelated sample)
JB15068-1	3W30081.D	09/05/12	19:02	10:48	(used for QC only; not part of job JB15168)
JB15068-1DUP	3W30082.D	09/05/12	19:41	11:27	Duplicate
ZZZZZZ	3W30083.D	09/05/12	20:19	12:05	(unrelated sample)
ZZZZZZ	3W30084.D	09/05/12	20:58	12:44	(unrelated sample)
ZZZZZZ	3W30085.D	09/05/12	21:36	13:22	(unrelated sample)
ZZZZZZ	3W30086.D	09/05/12	22:14	14:00	(unrelated sample)
ZZZZZZ	3W30088.D	09/05/12	22:53	14:39	(unrelated sample)
ZZZZZZ	3W30089.D	09/05/12	23:32	15:18	(unrelated sample)
ZZZZZZ	3W30090.D	09/06/12	00:11	15:57	(unrelated sample)
JB15168-2	3W30091.D	09/06/12	00:49	16:35	RISV-1
JB15168-3	3W30092.D	09/06/12	01:28	17:14	SSV B-12
JB15168-3	3W30093.D	09/06/12	02:06	17:52	SSV B-12
JB15168-5	3W30094.D	09/06/12	02:45	18:31	SSV G-5

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample:	V3W1171-BFB	**Injection Date:**	09/05/12
Lab File ID:	3W30067.D	**Injection Time:**	08:14
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JB15168-7	3W30095.D	09/06/12	03:24	19:10	SSV BASEMENT
JB15168-9	3W30096.D	09/06/12	04:03	19:49	SV-X
V3W1171-SCC	3W30097.D	09/06/12	05:21	21:07	Summa Cleaning Certification
ZZZZZZ	3W30098.D	09/06/12	06:00	21:46	(unrelated sample)
ZZZZZZ	3W30099.D	09/06/12	06:39	22:25	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1172-BFB
Lab File ID: 3W30100.D
Instrument ID: GCMS3W
Injection Date: 09/06/12
Injection Time: 09:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	14935	23.1		Pass
75	30.0 - 66.0% of mass 95	32925	50.9		Pass
95	Base peak, 100% relative abundance	64746	100.0		Pass
96	5.0 - 9.0% of mass 95	4223	6.52		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	58925	91.0		Pass
175	4.0 - 9.01% of mass 174	4884	7.54	(8.29) [a]	Pass
176	93.0 - 101.0% of mass 174	58080	89.7	(98.6) [a]	Pass
177	5.0 - 9.0% of mass 176	3854	5.95	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1172-CC1129	3W30102.D	09/06/12	10:25	01:22	Continuing cal 10
V3W1172-BS	3W30103.D	09/06/12	11:47	02:44	Blank Spike
V3W1172-BSD	3W30104.D	09/06/12	12:25	03:22	Blank Spike Duplicate
V3W1172-MB	3W30105.D	09/06/12	13:46	04:43	Method Blank
V3W1172-SCC	3W30106.D	09/06/12	14:25	05:22	Summa Cleaning Certification
ZZZZZZ	3W30108.D	09/06/12	15:58	06:55	(unrelated sample)
ZZZZZZ	3W30109.D	09/06/12	16:36	07:33	(unrelated sample)
ZZZZZZ	3W30110.D	09/06/12	17:17	08:14	(unrelated sample)
JB15168-2	3W30111.D	09/06/12	17:55	08:52	RISV-1
ZZZZZZ	3W30112.D	09/06/12	18:35	09:32	(unrelated sample)
ZZZZZZ	3W30113.D	09/06/12	19:17	10:14	(unrelated sample)
ZZZZZZ	3W30114.D	09/06/12	19:59	10:56	(unrelated sample)
ZZZZZZ	3W30115.D	09/06/12	20:39	11:36	(unrelated sample)
ZZZZZZ	3W30116.D	09/06/12	21:19	12:16	(unrelated sample)
JB15095-5DUP	3W30117.D	09/06/12	21:59	12:56	Duplicate
JB15095-5	3W30118.D	09/06/12	22:39	13:36	(used for QC only; not part of job JB15168)
ZZZZZZ	3W30119.D	09/06/12	23:19	14:16	(unrelated sample)
ZZZZZZ	3W30120.D	09/06/12	23:59	14:56	(unrelated sample)
ZZZZZZ	3W30121.D	09/07/12	00:40	15:37	(unrelated sample)
ZZZZZZ	3W30122.D	09/07/12	01:20	16:17	(unrelated sample)
ZZZZZZ	3W30123.D	09/07/12	02:00	16:57	(unrelated sample)
ZZZZZZ	3W30124.D	09/07/12	02:40	17:37	(unrelated sample)
ZZZZZZ	3W30125.D	09/07/12	03:20	18:17	(unrelated sample)
ZZZZZZ	3W30127.D	09/07/12	04:39	19:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample:	V3W1172-BFB	**Injection Date:**	09/06/12
Lab File ID:	3W30100.D	**Injection Time:**	09:03
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W30128.D	09/07/12	05:19	20:16	(unrelated sample)
ZZZZZZ	3W30129.D	09/07/12	05:59	20:56	(unrelated sample)
ZZZZZZ	3W30130.D	09/07/12	06:38	21:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VW1500-BFB
Lab File ID: W37008.D
Instrument ID: GCMSW
Injection Date: 06/19/12
Injection Time: 20:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12860	15.3		Pass
75	30.0 - 66.0% of mass 95	37101	44.3		Pass
95	Base peak, 100% relative abundance	83824	100.0		Pass
96	5.0 - 9.0% of mass 95	5655	6.75		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	72480	86.5		Pass
175	4.0 - 9.01% of mass 174	4181	4.99	(5.77) [a]	Pass
176	93.0 - 101.0% of mass 174	70517	84.1	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4551	5.43	(6.45) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1500-ICC1500	W37009.D	06/19/12	21:14	00:40	Initial cal 10
VW1500-IC1500	W37011.D	06/19/12	22:34	02:00	Initial cal 0.2
VW1500-IC1500	W37012.D	06/19/12	23:14	02:40	Initial cal 20
VW1500-IC1500	W37013.D	06/19/12	23:54	03:20	Initial cal 15
VW1500-IC1500	W37014.D	06/20/12	00:34	04:00	Initial cal 5
ZZZZZZ	W37015.D	06/20/12	01:14	04:40	(unrelated sample)
VW1500-IC1500	W37015.D	06/20/12	01:14	04:40	Initial cal 0.1
ZZZZZZ	W37016.D	06/20/12	01:54	05:20	(unrelated sample)
VW1500-IC1500	W37016.D	06/20/12	01:54	05:20	Initial cal 0.04
VW1500-IC1500	W37017.D	06/20/12	02:34	06:00	Initial cal 40
VW1500-IC1500	W37019.D	06/20/12	09:56	13:22	Initial cal 0.5
ZZZZZZ	W37020.D	06/20/12	10:57	14:23	(unrelated sample)
VW1500-ICV1500	W37021.D	06/20/12	11:37	15:03	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: VW1505-BFB
Lab File ID: W37124.D
Instrument ID: GCMSW
Injection Date: 06/27/12
Injection Time: 09:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11602	12.3		Pass
75	30.0 - 66.0% of mass 95	39424	41.7		Pass
95	Base peak, 100% relative abundance	94517	100.0		Pass
96	5.0 - 9.0% of mass 95	6593	6.98		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	100653	106.5		Pass
175	4.0 - 9.01% of mass 174	7963	8.42	(7.91) [a]	Pass
176	93.0 - 101.0% of mass 174	99024	104.8	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	6394	6.76	(6.46) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1505-CC1500	W37125.D	06/27/12	09:48	00:41	Continuing cal 10
VW1505-BS	W37126.D	06/27/12	11:27	02:20	Blank Spike
VW1505-BSD	W37127.D	06/27/12	12:07	03:00	Blank Spike Duplicate
VW1505-MB	W37128.D	06/27/12	13:36	04:29	Method Blank
JB9753-1	W37129.D	06/27/12	14:45	05:38	(used for QC only; not part of job JB15168)
JB9753-1DUP	W37130.D	06/27/12	15:26	06:19	Duplicate
VW1505-SCC	W37131.D	06/27/12	16:06	06:59	Summa Cleaning Certification
ZZZZZZ	W37132.D	06/27/12	16:46	07:39	(unrelated sample)
ZZZZZZ	W37133.D	06/27/12	17:26	08:19	(unrelated sample)
ZZZZZZ	W37134.D	06/27/12	18:06	08:59	(unrelated sample)
ZZZZZZ	W37135.D	06/27/12	18:46	09:39	(unrelated sample)
ZZZZZZ	W37136.D	06/27/12	19:26	10:19	(unrelated sample)
VW1505-SCC	W37137.D	06/27/12	20:06	10:59	Summa Cleaning Certification
VW1505-SCC	W37138.D	06/27/12	20:46	11:39	Summa Cleaning Certification
ZZZZZZ	W37139.D	06/27/12	21:26	12:19	(unrelated sample)
ZZZZZZ	W37140.D	06/27/12	22:06	12:59	(unrelated sample)
ZZZZZZ	W37141.D	06/27/12	22:46	13:39	(unrelated sample)
ZZZZZZ	W37142.D	06/27/12	23:26	14:19	(unrelated sample)

Volatile Surrogate Recovery Summary

Job Number: JB15168
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JB15168-1	3W30058.D	87.0
JB15168-2	3W30111.D	87.0
JB15168-2	3W30091.D	95.0
JB15168-3	3W30093.D	93.0
JB15168-3	3W30092.D	99.0
JB15168-4	3W30059.D	85.0
JB15168-5	3W30094.D	97.0
JB15168-6	3W30060.D	86.0
JB15168-7	3W30095.D	96.0
JB15168-8	3W30061.D	85.0
JB15168-9	3W30096.D	94.0
JB14900-2QDUP	3W30051.D	85.0
JB15068-1DUP	3W30082.D	93.0
JB15095-5DUP	3W30117.D	85.0
V3W1158-SCC	3W29697.D	82.0
V3W1170-BS	3W30038.D	101.0
V3W1170-BSD	3W30039.D	101.0
V3W1170-MB	3W30040.D	83.0
V3W1171-BS	3W30069.D	100.0
V3W1171-BSD	3W30070.D	103.0
V3W1171-MB	3W30071.D	84.0
V3W1172-BS	3W30103.D	103.0
V3W1172-BSD	3W30104.D	103.0
V3W1172-MB	3W30105.D	85.0
VW1505-SCC	W37131.D	87.0
V3W1158-BS	3W29681.D	101.0
V3W1158-BSD	3W29682.D	100.0
V3W1158-MB	3W29683.D	89.0
VW1505-BS	W37126.D	102.0
VW1505-BSD	W37127.D	101.0
VW1505-MB	W37128.D	89.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

New Jersey ACCUTEST LABORATORIES

09/24/12

Technical Report for

C. A. Rich Consultants

Elks Plaza, Freeport, NY

GALAXY/ELKS PLAZA/SSD

Accutest Job Number: JB15420

Sampling Date: 08/31/12

Report to:

C. A. Rich Consultants

jcooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **39**

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

Paul Ioannidis
Lab Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sections: 1 2 3 4 5

Table of Contents

Section 1: Sample Summary **3**
Section 2: Summary of Hits **4**
Section 3: Sample Results **6**
3.1: JB15420-1: RISV-2 7
Section 4: Misc. Forms **10**
4.1: Chain of Custody 11
4.2: Summa Canister and Flow Controller Log 13
Section 5: GC/MS Volatiles - QC Data Summaries **14**
5.1: Method Blank Summary 15
5.2: Blank Spike/Blank Spike Duplicate Summary 21
5.3: Duplicate Summary 27
5.4: Summa Cleaning Certification 30
5.5: Instrument Performance Checks (BFB) 33
5.6: Surrogate Recovery Summaries 39

Sample Summary

C. A. Rich Consultants

Job No: JB15420

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB15420-1	08/31/12	15:45	JL	09/05/12	AIR	Soil Vapor Comp.	RISV-2

Summary of Hits

Job Number: JB15420
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/31/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB15420-1	**RISV-2**					
Acetone		57.3	0.80	0.15	ppbv	TO-15
Benzene		2.6	0.80	0.18	ppbv	TO-15
Carbon disulfide		0.65 J	0.80	0.13	ppbv	TO-15
Chloromethane		0.81	0.80	0.15	ppbv	TO-15
Cyclohexane		0.94	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane		0.50 J	0.80	0.15	ppbv	TO-15
Ethanol		9.9	2.0	0.38	ppbv	TO-15
Ethylbenzene		3.4	0.80	0.12	ppbv	TO-15
Ethyl Acetate		15.0	0.80	0.24	ppbv	TO-15
4-Ethyltoluene		1.1	0.80	0.096	ppbv	TO-15
Heptane		2.3	0.80	0.13	ppbv	TO-15
Hexane		2.7	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol		18.2	0.80	0.23	ppbv	TO-15
Methyl ethyl ketone		8.1	0.80	0.19	ppbv	TO-15
Methyl Isobutyl Ketone		0.71 J	0.80	0.14	ppbv	TO-15
Propylene		2.5	2.0	0.28	ppbv	TO-15
Styrene		0.64 J	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene		3.9	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene		1.1	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane		1.8	0.80	0.11	ppbv	TO-15
Tertiary Butyl Alcohol		220	1.5	0.24	ppbv	TO-15
Tetrachloroethylene		0.55	0.16	0.11	ppbv	TO-15
Tetrahydrofuran		7.9	0.80	0.19	ppbv	TO-15
Toluene		19.6	0.80	0.16	ppbv	TO-15
m,p-Xylene		11.9	0.80	0.12	ppbv	TO-15
o-Xylene		4.3	0.80	0.12	ppbv	TO-15
Xylenes (total)		16.2	0.80	0.12	ppbv	TO-15
Acetone		136	1.9	0.36	ug/m3	TO-15
Benzene		8.3	2.6	0.58	ug/m3	TO-15
Carbon disulfide		2.0 J	2.5	0.40	ug/m3	TO-15
Chloromethane		1.7	1.7	0.31	ug/m3	TO-15
Cyclohexane		3.2	2.8	0.45	ug/m3	TO-15
Dichlorodifluoromethane		2.5 J	4.0	0.74	ug/m3	TO-15
Ethanol		19	3.8	0.72	ug/m3	TO-15
Ethylbenzene		15	3.5	0.52	ug/m3	TO-15
Ethyl Acetate		54.0	2.9	0.86	ug/m3	TO-15
4-Ethyltoluene		5.4	3.9	0.47	ug/m3	TO-15
Heptane		9.4	3.3	0.53	ug/m3	TO-15
Hexane		9.5	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol		44.7	2.0	0.57	ug/m3	TO-15
Methyl ethyl ketone		24	2.4	0.56	ug/m3	TO-15
Methyl Isobutyl Ketone		2.9 J	3.3	0.57	ug/m3	TO-15
Propylene		4.3	3.4	0.48	ug/m3	TO-15

Summary of Hits

Job Number: JB15420
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/31/12

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Styrene	2.7 J	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene	19	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene	5.4	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane	8.4	3.7	0.51	ug/m3	TO-15
Tertiary Butyl Alcohol	667	4.5	0.73	ug/m3	TO-15
Tetrachloroethylene	3.7	1.1	0.75	ug/m3	TO-15
Tetrahydrofuran	23	2.4	0.56	ug/m3	TO-15
Toluene	73.9	3.0	0.60	ug/m3	TO-15
m,p-Xylene	51.7	3.5	0.52	ug/m3	TO-15
o-Xylene	19	3.5	0.52	ug/m3	TO-15
Xylenes (total)	70.4	3.5	0.52	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	RISV-2		
Lab Sample ID:	JB15420-1	**Date Sampled:**	08/31/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A898	**Date Received:**	09/05/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30166.D	1.48	09/12/12	YXC	n/a	n/a	V3W1175
Run #2	3W30177.D	1.48	09/12/12	YXC	n/a	n/a	V3W1176

	Initial Volume
Run #1	148 ml
Run #2	80.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	57.3	0.80	0.15	ppbv		136	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	2.6	0.80	0.18	ppbv		8.3	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.65	0.80	0.13	ppbv	J	2.0	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	0.81	0.80	0.15	ppbv		1.7	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	0.94	0.80	0.13	ppbv		3.2	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.80	0.15	ppbv	J	2.5	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

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

Report of Analysis

Client Sample ID: RISV-2
Lab Sample ID: JB15420-1
Matrix: AIR - Soil Vapor Comp. Summa ID: A898
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 08/31/12
Date Received: 09/05/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	9.9	2.0	0.38	ppbv		19	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	3.4	0.80	0.12	ppbv		15	3.5	ug/m3
141-78-6	88	Ethyl Acetate	15.0	0.80	0.24	ppbv		54.0	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	1.1	0.80	0.096	ppbv		5.4	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	2.3	0.80	0.13	ppbv		9.4	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	2.7	0.80	0.18	ppbv		9.5	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	18.2	0.80	0.23	ppbv		44.7	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.1	0.80	0.19	ppbv		24	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.71	0.80	0.14	ppbv	J	2.9	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	2.5	2.0	0.28	ppbv		4.3	3.4	ug/m3
100-42-5	104.1	Styrene	0.64	0.80	0.11	ppbv	J	2.7	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	3.9	0.80	0.096	ppbv		19	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.1	0.80	0.11	ppbv		5.4	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.8	0.80	0.11	ppbv		8.4	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	220 [a]	1.5	0.24	ppbv		667 [a]	4.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.55	0.16	0.11	ppbv		3.7	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	7.9	0.80	0.19	ppbv		23	2.4	ug/m3
108-88-3	92.14	Toluene	19.6	0.80	0.16	ppbv		73.9	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	11.9	0.80	0.12	ppbv		51.7	3.5	ug/m3
95-47-6	106.2	o-Xylene	4.3	0.80	0.12	ppbv		19	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	16.2	0.80	0.12	ppbv		70.4	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	92%	65-128%

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

Report of Analysis

Client Sample ID:	RISV-2		
Lab Sample ID:	JB15420-1	**Date Sampled:**	08/31/12
Matrix:	AIR - Soil Vapor Comp. Summa ID: A898	**Date Received:**	09/05/12
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

A/h

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #	Bottle Order Control #	PAGE 1 OF 1
799883632189	MC-8/29/2012-4	
Lab Quote #	Lab Job # JB15420	

Client / Reporting Information

Company Name: CA Rich Consultants	Project Name: E/Ks Plaza
Address: 17 Dupont Street	Street: W. Merrick Rd
City: Plainview State: NY Zip: 11803	City: Freeport State: NY
Project Contact: Jason T. Cooper E-mail: JCooper@Carichinc.com	Project #:
Phone #: 516-576-8844 Fax #: 516-576-0093	Client Purchase Order #:
Sampler(s) Name(s): Tom Brown / Jason Cooper	

Weather Parameters

Temperature (Fahrenheit)
Start: 68°F Maximum: 0810
Stop: 83°F Minimum: 1545

Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:

Other weather comment:

Requested Analysis

TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis
-1	RISV-2	SV	A898	6L	FC056	8/31/12	0810	-30	✓	TB/JC	8/31/12	1545	-8	—	JC/TB	X

Turnaround Time (Business Days)

Standard - 15 Days	X
10 Day	
5 Day	
3 Day	
2 Day	
1 Day	
Other	

Approved By:_____

Date:_____

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A	
Comm B	X
Reduced T2	
Full T1	
Other:	

Comments / Remarks

5/4/12 TA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by / Laboratory	Date/Time	Received by	Relinquished by	Date Time	Received by
1	Greg Manousos 1545	8/29/12	FedEx	FedEx		
2						
3		9/4/12	FedEx	Fed	9/5/12	
4						
5				Custody Seal #		

2B

JB15420: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB15420 **Client:** **Project:**

Date / Time Received: 9/5/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Summa Canister and Flow Controller Log

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Received: 09/05/12

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A898	6	29.4	08/29/12	HT	CP5613	3W29713.D	JB15420-1	09/05/12	HT	8		1.2	1.48

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC056	08/29/12	HT	10.2	8	09/05/12	HT	10.4

Accutest Bottle Order(s):
MC-8/29/2012-4

Prep Date	Room Temp(F)	Bar Pres "Hg
08/29/12	70	29.92

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1175-MB	3W30150.D	1	09/11/12	YXC	n/a	n/a	V3W1175

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1175-MB	3W30150.D	1	09/11/12	YXC	n/a	n/a	V3W1175

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	65-128%

Method Blank Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1176-MB	3W30172.D	1	09/12/12	YXC	n/a	n/a	V3W1176

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	80%	65-128%

Method Blank Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-MB	3W29703.D	1	08/15/12	YXC	n/a	n/a	V3W1159

The QC reported here applies to the following samples: **Method:** TO-15

V3W1159-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-MB	3W29703.D	1	08/15/12	YXC	n/a	n/a	V3W1159

The QC reported here applies to the following samples: **Method:** TO-15

V3W1159-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-MB	3W29703.D	1	08/15/12	YXC	n/a	n/a	V3W1159

The QC reported here applies to the following samples: **Method:** TO-15

V3W1159-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1175-BS	3W30148.D	1	09/11/12	YXC	n/a	n/a	V3W1175
V3W1175-BSD	3W30149.D	1	09/11/12	YXC	n/a	n/a	V3W1175

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.4	94	8.9	89	5	70-130/30
106-99-0	1,3-Butadiene	10	10.6	106	10.5	105	1	70-130/30
71-43-2	Benzene	10	10.3	103	10.3	103	0	70-130/30
75-27-4	Bromodichloromethane	10	10.6	106	10.5	105	1	70-130/30
75-25-2	Bromoform	10	10.6	106	10.5	105	1	70-130/30
74-83-9	Bromomethane	10	10.3	103	10.2	102	1	70-130/30
593-60-2	Bromoethene	10	10.6	106	10.5	105	1	70-130/30
100-44-7	Benzyl Chloride	10	10.2	102	10.3	103	1	70-130/30
75-15-0	Carbon disulfide	10	8.5	85	8.5	85	0	70-130/30
108-90-7	Chlorobenzene	10	10.5	105	10.4	104	1	70-130/30
75-00-3	Chloroethane	10	10.9	109	10.7	107	2	70-130/30
67-66-3	Chloroform	10	10.3	103	10.4	104	1	70-130/30
74-87-3	Chloromethane	10	10.0	100	9.4	94	6	70-130/30
107-05-1	3-Chloropropene	10	10.5	105	10.4	104	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.5	105	10.3	103	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	10.5	105	0	70-130/30
110-82-7	Cyclohexane	10	10.4	104	10.5	105	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10	100	10	100	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	10.1	101	0	70-130/30
106-93-4	1,2-Dibromoethane	10	10.6	106	10.5	105	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.4	104	10.3	103	1	70-130/30
78-87-5	1,2-Dichloropropane	10	10.1	101	10.1	101	0	70-130/30
123-91-1	1,4-Dioxane	10	11.4	114	11.1	111	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.0	100	9.8	98	2	70-130/30
124-48-1	Dibromochloromethane	10	10.6	106	10.4	104	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.2	92	9.2	92	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.1	101	10.1	101	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.7	107	10.6	106	1	70-130/30
541-73-1	m-Dichlorobenzene	10	10.7	107	10.7	107	0	70-130/30
95-50-1	o-Dichlorobenzene	10	10.5	105	10.5	105	0	70-130/30
106-46-7	p-Dichlorobenzene	10	10.7	107	10.6	106	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.1	111	11.2	112	1	70-130/30
64-17-5	Ethanol	10	9.1	91	8.8	88	3	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.4	104	0	70-130/30
141-78-6	Ethyl Acetate	10	9.0	90	9.6	96	6	70-130/30
622-96-8	4-Ethyltoluene	10	10.6	106	10.5	105	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1175-BS	3W30148.D	1	09/11/12	YXC	n/a	n/a	V3W1175
V3W1175-BSD	3W30149.D	1	09/11/12	YXC	n/a	n/a	V3W1175

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.8	98	9.8	98	0	70-130/30
76-14-2	Freon 114	10	9.1	91	9.0	90	1	70-130/30
142-82-5	Heptane	10	10.7	107	10.8	108	1	70-130/30
87-68-3	Hexachlorobutadiene	10	9.0	90	9.6	96	6	70-130/30
110-54-3	Hexane	10	10.1	101	10.2	102	1	70-130/30
591-78-6	2-Hexanone	10	9.9	99	9.9	99	0	70-130/30
67-63-0	Isopropyl Alcohol	10	8.8	88	8.5	85	3	70-130/30
75-09-2	Methylene chloride	10	9.3	93	9.4	94	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.8	98	9.5	95	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.5	105	10.6	106	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.4	94	9.2	92	2	70-130/30
80-62-6	Methylmethacrylate	10	9.8	98	9.5	95	3	70-130/30
115-07-1	Propylene	10	10	100	9.9	99	1	70-130/30
100-42-5	Styrene	10	10.6	106	10.5	105	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.3	103	10.3	103	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.8	108	10.5	105	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.8	108	10.7	107	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.1	101	9.9	99	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.9	109	10.8	108	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.7	107	10.6	106	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.5	105	10.6	106	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.2	102	10.2	102	0	70-130/30
109-99-9	Tetrahydrofuran	10	9.4	94	9.1	91	3	70-130/30
108-88-3	Toluene	10	10.3	103	10.4	104	1	70-130/30
79-01-6	Trichloroethylene	10	10.4	104	10.4	104	0	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	10.2	102	1	70-130/30
75-01-4	Vinyl chloride	10	10.6	106	10.6	106	0	70-130/30
108-05-4	Vinyl Acetate	10	9.7	97	9.7	97	0	70-130/30
	m,p-Xylene	20	20.3	102	20.2	101	0	70-130/30
95-47-6	o-Xylene	10	10.5	105	10.3	103	2	70-130/30
1330-20-7	Xylenes (total)	30	30.8	103	30.5	102	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	109%	110%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1176-BS	3W30170.D	1	09/12/12	YXC	n/a	n/a	V3W1176
V3W1176-BSD	3W30171.D	1	09/12/12	YXC	n/a	n/a	V3W1176

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
75-65-0	Tertiary Butyl Alcohol	10	10.6	106	10.8	108	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	109%	108%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-BS	3W29701.D	1	08/15/12	YXC	n/a	n/a	V3W1159
V3W1159-BSD	3W29702.D	1	08/15/12	YXC	n/a	n/a	V3W1159

The QC reported here applies to the following samples: **Method:** TO-15

V3W1159-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.8	88	9.3	93	6	70-130/30
106-99-0	1,3-Butadiene	10	9.5	95	9.6	96	1	70-130/30
71-43-2	Benzene	10	9.2	92	8.7	87	6	70-130/30
75-27-4	Bromodichloromethane	10	9.9	99	9.3	93	6	70-130/30
75-25-2	Bromoform	10	10.8	108	10.0	100	8	70-130/30
74-83-9	Bromomethane	10	9.4	94	9.6	96	2	70-130/30
593-60-2	Bromoethene	10	10.3	103	10.4	104	1	70-130/30
100-44-7	Benzyl Chloride	10	8.9	89	8.9	89	0	70-130/30
75-15-0	Carbon disulfide	10	7.8	78	7.9	79	1	70-130/30
108-90-7	Chlorobenzene	10	10.1	101	9.4	94	7	70-130/30
75-00-3	Chloroethane	10	9.5	95	9.7	97	2	70-130/30
67-66-3	Chloroform	10	9.8	98	10	100	2	70-130/30
74-87-3	Chloromethane	10	9.7	97	9.8	98	1	70-130/30
107-05-1	3-Chloropropene	10	9.6	96	9.9	99	3	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	9.7	97	4	70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	10.6	106	1	70-130/30
110-82-7	Cyclohexane	10	9.5	95	9.0	90	5	70-130/30
75-34-3	1,1-Dichloroethane	10	9.8	98	9.9	99	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.5	95	9.7	97	2	70-130/30
106-93-4	1,2-Dibromoethane	10	10.1	101	9.3	93	8	70-130/30
107-06-2	1,2-Dichloroethane	10	10.9	109	10.9	109	0	70-130/30
78-87-5	1,2-Dichloropropane	10	9.8	98	9.4	94	4	70-130/30
123-91-1	1,4-Dioxane	10	9.2	92	8.8	88	4	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.8	98	10.0	100	2	70-130/30
124-48-1	Dibromochloromethane	10	10.5	105	9.8	98	7	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.5	85	8.6	86	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	9.3	93	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.3	103	9.8	98	5	70-130/30
541-73-1	m-Dichlorobenzene	10	10.1	101	9.7	97	4	70-130/30
95-50-1	o-Dichlorobenzene	10	10.2	102	10	100	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10.1	101	9.8	98	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.8	108	10.2	102	6	70-130/30
64-17-5	Ethanol	10	8.5	85	8.9	89	5	70-130/30
100-41-4	Ethylbenzene	10	9.3	93	8.7	87	7	70-130/30
141-78-6	Ethyl Acetate	10	8.2	82	8.5	85	4	70-130/30
622-96-8	4-Ethyltoluene	10	9.9	99	9.7	97	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-BS	3W29701.D	1	08/15/12	YXC	n/a	n/a	V3W1159
V3W1159-BSD	3W29702.D	1	08/15/12	YXC	n/a	n/a	V3W1159

The QC reported here applies to the following samples: **Method:** TO-15

V3W1159-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.9	99	10.1	101	2	70-130/30
76-14-2	Freon 114	10	8.6	86	8.7	87	1	70-130/30
142-82-5	Heptane	10	9.6	96	9.1	91	5	70-130/30
87-68-3	Hexachlorobutadiene	10	7.8	78	7.9	79	1	70-130/30
110-54-3	Hexane	10	9.2	92	9.3	93	1	70-130/30
591-78-6	2-Hexanone	10	8.8	88	8.3	83	6	70-130/30
67-63-0	Isopropyl Alcohol	10	8.7	87	8.6	86	1	70-130/30
75-09-2	Methylene chloride	10	8.6	86	8.5	85	1	70-130/30
78-93-3	Methyl ethyl ketone	10	8.4	84	8.6	86	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.8	98	9.4	94	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.7	87	9.1	91	4	70-130/30
80-62-6	Methylmethacrylate	10	8.9	89	8.6	86	3	70-130/30
115-07-1	Propylene	10	10.4	104	10.5	105	1	70-130/30
100-42-5	Styrene	10	10.2	102	9.7	97	5	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10	100	10.2	102	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.6	106	10.4	104	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.7	97	9.2	92	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	7.2	72	6.8	68* [a]	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.1	101	9.9	99	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.6	96	9.6	96	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.7	97	9.1	91	6	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.6	96	9.5	95	1	70-130/30
127-18-4	Tetrachloroethylene	10	9.7	97	9.2	92	5	70-130/30
109-99-9	Tetrahydrofuran	10	8.8	88	8.9	89	1	70-130/30
108-88-3	Toluene	10	9.3	93	8.8	88	6	70-130/30
79-01-6	Trichloroethylene	10	9.7	97	9.2	92	5	70-130/30
75-69-4	Trichlorofluoromethane	10	10	100	10.1	101	1	70-130/30
75-01-4	Vinyl chloride	10	9.8	98	10.2	102	4	70-130/30
108-05-4	Vinyl Acetate	10	10.2	102	10.3	103	1	70-130/30
	m,p-Xylene	20	18.4	92	17.7	89	4	70-130/30
95-47-6	o-Xylene	10	9.3	93	8.9	89	4	70-130/30
1330-20-7	Xylenes (total)	30	27.7	92	26.6	89	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-BS	3W29701.D	1	08/15/12	YXC	n/a	n/a	V3W1159
V3W1159-BSD	3W29702.D	1	08/15/12	YXC	n/a	n/a	V3W1159

The QC reported here applies to the following samples: **Method:** TO-15

V3W1159-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	102%	65-128%

(a) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15688-1DUP	3W30161.D	1	09/12/12	YXC	n/a	n/a	V3W1175
JB15688-1	3W30160.D	1	09/12/12	YXC	n/a	n/a	V3W1175

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	JB15688-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	839	E	826	E	2	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	16.4		16.5		1	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	34.3		34.4		0	11
108-90-7	Chlorobenzene	12.6		12.8		2	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	ND		ND		nc	12
74-87-3	Chloromethane	ND		ND		nc	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	8.2		8.5		4	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	0.48	J	0.45	J	6	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	9.1		9.0		1	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	238	E	238	E	0	33
100-41-4	Ethylbenzene	10.2		10.6		4	15
141-78-6	Ethyl Acetate	21.9		22.1		1	20
622-96-8	4-Ethyltoluene	3.2		3.5		9	13

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15688-1DUP	3W30161.D	1	09/12/12	YXC	n/a	n/a	V3W1175
JB15688-1	3W30160.D	1	09/12/12	YXC	n/a	n/a	V3W1175

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	JB15688-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	14.5		14.6		1	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	185	E	180	E	3	17
591-78-6	2-Hexanone	2.5		2.8		11	20
67-63-0	Isopropyl Alcohol	20.7		20.4		1	26
75-09-2	Methylene chloride	278	E	278	E	0	26
78-93-3	Methyl ethyl ketone	28.8		29.4		2	21
108-10-1	Methyl Isobutyl Ketone	4.5		4.7		4	20
1634-04-4	Methyl Tert Butyl Ether	0.41	J	0.36	J	13	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	38.1		34.6		10	16
100-42-5	Styrene	1.2		1.1		9	11
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	11.0		10.8		2	19
108-67-8	1,3,5-Trimethylbenzene	5.0		5.0		0	13
540-84-1	2,2,4-Trimethylpentane	44.2		43.6		1	18
127-18-4	Tetrachloroethylene	1.1		1.2		9	17
109-99-9	Tetrahydrofuran	0.73	J	0.81		10	20
108-88-3	Toluene	34.2		34.5		1	20
79-01-6	Trichloroethylene	16.4		16.5		1	13
75-69-4	Trichlorofluoromethane	ND		ND		nc	21
75-01-4	Vinyl chloride	2.5		2.5		0	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	35.1		35.7		2	26
95-47-6	o-Xylene	14.6		15.1		3	20
1330-20-7	Xylenes (total)	49.7		50.8		2	26

CAS No.	Surrogate Recoveries	DUP	JB15688-1	Limits
460-00-4	4-Bromofluorobenzene	94%	96%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB15931-1DUP	3W30184.D	1	09/12/12	YXC	n/a	n/a	V3W1176
JB15931-1	3W30183.D	1	09/12/12	YXC	n/a	n/a	V3W1176

The QC reported here applies to the following samples: **Method:** TO-15

JB15420-1

CAS No.	Compound	JB15931-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	21

CAS No.	Surrogate Recoveries	DUP	JB15931-1	Limits
460-00-4	4-Bromofluorobenzene	91%	94%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-SCC	3W29713.D	1	08/16/12	YXC	n/a	n/a	V3W1159

The QC reported here (Summa A898) applies to the following samples: **Method:** TO-15

Batch CP5613 cleaned 08/13/12: JB15420-1(A898)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-SCC	3W29713.D	1	08/16/12	YXC	n/a	n/a	V3W1159

The QC reported here (Summa A898) applies to the following samples: **Method:** TO-15

Batch CP5613 cleaned 08/13/12: JB15420-1(A898)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1159-SCC	3W29713.D	1	08/16/12	YXC	n/a	n/a	V3W1159

The QC reported here (Summa A898) applies to the following samples: **Method:** TO-15

Batch CP5613 cleaned 08/13/12: JB15420-1(A898)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	90%	65-128%

Instrument Performance Check (BFB)

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1129-BFB
Lab File ID: 3W28937.D
Instrument ID: GCMS3W
Injection Date: 06/29/12
Injection Time: 20:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12221	17.5		Pass
75	30.0 - 66.0% of mass 95	31586	45.3		Pass
95	Base peak, 100% relative abundance	69682	100.0		Pass
96	5.0 - 9.0% of mass 95	4699	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	66349	95.2		Pass
175	4.0 - 9.01% of mass 174	4891	7.02	(7.37) [a]	Pass
176	93.0 - 101.0% of mass 174	65720	94.3	(99.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4258	6.11	(6.48) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1129-IC1129	3W28938.D	06/29/12	21:36	00:40	Initial cal 0.5
V3W1129-IC1129	3W28939.D	06/29/12	22:15	01:19	Initial cal 0.2
V3W1129-IC1129	3W28940.D	06/29/12	22:55	01:59	Initial cal 20
V3W1129-ICC1129	3W28941.D	06/29/12	23:35	02:39	Initial cal 10
V3W1129-IC1129	3W28942.D	06/30/12	00:14	03:18	Initial cal 5.0
V3W1129-IC1129	3W28943.D	06/30/12	01:33	04:37	Initial cal 0.1
V3W1129-IC1129	3W28944.D	06/30/12	02:11	05:15	Initial cal 0.04
V3W1129-IC1129	3W28945.D	06/30/12	02:53	05:57	Initial cal 40

Instrument Performance Check (BFB)

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1159-BFB
Lab File ID: 3W29698.D
Instrument ID: GCMS3W
Injection Date: 08/15/12
Injection Time: 14:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	13604	17.7		Pass
75	30.0 - 66.0% of mass 95	36106	47.0		Pass
95	Base peak, 100% relative abundance	76770	100.0		Pass
96	5.0 - 9.0% of mass 95	5049	6.58		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	77786	101.3		Pass
175	4.0 - 9.01% of mass 174	6169	8.04	(7.93) [a]	Pass
176	93.0 - 101.0% of mass 174	76312	99.4	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4863	6.33	(6.37) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1159-CC1129	3W29700.D	08/15/12	17:07	02:25	Continuing cal 10
V3W1159-BS	3W29701.D	08/15/12	17:48	03:06	Blank Spike
V3W1159-BSD	3W29702.D	08/15/12	18:26	03:44	Blank Spike Duplicate
V3W1159-MB	3W29703.D	08/15/12	19:45	05:03	Method Blank
V3W1159-SCC	3W29704.D	08/15/12	20:25	05:43	Summa Cleaning Certification
V3W1159-SCC	3W29709.D	08/15/12	23:43	09:01	Summa Cleaning Certification
V3W1159-SCC	3W29713.D	08/16/12	02:21	11:39	Summa Cleaning Certification
V3W1159-SCC	3W29714.D	08/16/12	03:02	12:20	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1174-BFB
Lab File ID: 3W30134.D
Instrument ID: GCMS3W
Injection Date: 09/10/12
Injection Time: 09:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	10189	20.9		Pass
75	30.0 - 66.0% of mass 95	23650	48.4		Pass
95	Base peak, 100% relative abundance	48829	100.0		Pass
96	5.0 - 9.0% of mass 95	3295	6.75		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	42888	87.8		Pass
175	4.0 - 9.01% of mass 174	3337	6.83	(7.78) [a]	Pass
176	93.0 - 101.0% of mass 174	42224	86.5	(98.5) [a]	Pass
177	5.0 - 9.0% of mass 176	2708	5.55	(6.41) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1174-ICC1174	3W30135.D	09/10/12	10:29	00:43	Initial cal 10
V3W1174-IC1174	3W30137.D	09/10/12	11:47	02:01	Initial cal 0.5
V3W1174-IC1174	3W30138.D	09/10/12	12:26	02:40	Initial cal 0.2
V3W1174-IC1174	3W30139.D	09/10/12	13:05	03:19	Initial cal 0.1
V3W1174-IC1174	3W30140.D	09/10/12	13:44	03:58	Initial cal 0.04
V3W1174-IC1174	3W30141.D	09/10/12	14:28	04:42	Initial cal 5
V3W1174-IC1174	3W30142.D	09/10/12	16:26	06:40	Initial cal 20
V3W1174-IC1174	3W30143.D	09/10/12	17:08	07:22	Initial cal 40
V3W1174-IC1174	3W30144.D	09/10/12	21:07	11:21	Initial cal 15
V3W1174-ICV1174	3W30145.D	09/11/12	08:17	22:31	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1175-BFB
Lab File ID: 3W30146.D
Instrument ID: GCMS3W
Injection Date: 09/11/12
Injection Time: 09:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	13017	22.1		Pass
75	30.0 - 66.0% of mass 95	28986	49.3		Pass
95	Base peak, 100% relative abundance	58808	100.0		Pass
96	5.0 - 9.0% of mass 95	4094	6.96		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	50922	86.6		Pass
175	4.0 - 9.01% of mass 174	4103	6.98	(8.06) [a]	Pass
176	93.0 - 101.0% of mass 174	49917	84.9	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3296	5.60	(6.60) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1175-CC1174	3W30147.D	09/11/12	09:49	00:46	Continuing cal 10
V3W1175-BS	3W30148.D	09/11/12	10:31	01:28	Blank Spike
V3W1175-BSD	3W30149.D	09/11/12	11:13	02:10	Blank Spike Duplicate
V3W1175-MB	3W30150.D	09/11/12	13:39	04:36	Method Blank
ZZZZZZ	3W30153.D	09/11/12	15:49	06:46	(unrelated sample)
ZZZZZZ	3W30154.D	09/11/12	16:33	07:30	(unrelated sample)
ZZZZZZ	3W30155.D	09/11/12	17:20	08:17	(unrelated sample)
ZZZZZZ	3W30156.D	09/11/12	18:17	09:14	(unrelated sample)
ZZZZZZ	3W30157.D	09/12/12	00:41	15:38	(unrelated sample)
ZZZZZZ	3W30158.D	09/12/12	01:55	16:52	(unrelated sample)
ZZZZZZ	3W30159.D	09/12/12	02:53	17:50	(unrelated sample)
JB15688-1	3W30160.D	09/12/12	03:45	18:42	(used for QC only; not part of job JB15420)
JB15688-1DUP	3W30161.D	09/12/12	04:33	19:30	Duplicate
ZZZZZZ	3W30162.D	09/12/12	05:19	20:16	(unrelated sample)
ZZZZZZ	3W30163.D	09/12/12	06:03	21:00	(unrelated sample)
ZZZZZZ	3W30164.D	09/12/12	06:46	21:43	(unrelated sample)
ZZZZZZ	3W30165.D	09/12/12	07:29	22:26	(unrelated sample)
JB15420-1	3W30166.D	09/12/12	08:11	23:08	RISV-2
ZZZZZZ	3W30167.D	09/12/12	08:51	23:48	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V3W1176-BFB
Lab File ID: 3W30168.D
Instrument ID: GCMS3W
Injection Date: 09/12/12
Injection Time: 09:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12007	23.6		Pass
75	30.0 - 66.0% of mass 95	26106	51.2		Pass
95	Base peak, 100% relative abundance	50952	100.0		Pass
96	5.0 - 9.0% of mass 95	3318	6.51		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	43472	85.3		Pass
175	4.0 - 9.01% of mass 174	3555	6.98	(8.18) [a]	Pass
176	93.0 - 101.0% of mass 174	42090	82.6	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	2826	5.55	(6.71) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1176-CC1174	3W30169.D	09/12/12	10:35	00:41	Continuing cal 10
V3W1176-BS	3W30170.D	09/12/12	11:56	02:02	Blank Spike
V3W1176-BSD	3W30171.D	09/12/12	12:36	02:42	Blank Spike Duplicate
V3W1176-MB	3W30172.D	09/12/12	14:01	04:07	Method Blank
ZZZZZZ	3W30174.D	09/12/12	15:19	05:25	(unrelated sample)
ZZZZZZ	3W30175.D	09/12/12	15:59	06:05	(unrelated sample)
ZZZZZZ	3W30176.D	09/12/12	16:37	06:43	(unrelated sample)
JB15420-1	3W30177.D	09/12/12	17:16	07:22	RISV-2
ZZZZZZ	3W30178.D	09/12/12	17:58	08:04	(unrelated sample)
ZZZZZZ	3W30179.D	09/12/12	18:41	08:47	(unrelated sample)
ZZZZZZ	3W30180.D	09/12/12	19:20	09:26	(unrelated sample)
ZZZZZZ	3W30181.D	09/12/12	19:59	10:05	(unrelated sample)
ZZZZZZ	3W30182.D	09/12/12	20:38	10:44	(unrelated sample)
JB15931-1	3W30183.D	09/12/12	21:19	11:25	(used for QC only; not part of job JB15420)
JB15931-1DUP	3W30184.D	09/12/12	22:00	12:06	Duplicate
ZZZZZZ	3W30185.D	09/12/12	22:41	12:47	(unrelated sample)
ZZZZZZ	3W30186.D	09/12/12	23:22	13:28	(unrelated sample)
ZZZZZZ	3W30187.D	09/13/12	00:03	14:09	(unrelated sample)
ZZZZZZ	3W30188.D	09/13/12	00:43	14:49	(unrelated sample)
ZZZZZZ	3W30189.D	09/13/12	01:24	15:30	(unrelated sample)
ZZZZZZ	3W30190.D	09/13/12	02:06	16:12	(unrelated sample)
ZZZZZZ	3W30192.D	09/13/12	03:26	17:32	(unrelated sample)
ZZZZZZ	3W30193.D	09/13/12	04:07	18:13	(unrelated sample)
ZZZZZZ	3W30194.D	09/13/12	04:48	18:54	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample:	V3W1176-BFB	**Injection Date:**	09/12/12
Lab File ID:	3W30168.D	**Injection Time:**	09:54
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W30195.D	09/13/12	06:04	20:10	(unrelated sample)
V3W1176-SCC	3W30196.D	09/13/12	06:45	20:51	Summa Cleaning Certification

Volatile Surrogate Recovery Summary

Job Number: JB15420
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JB15420-1	3W30166.D	101.0
JB15420-1	3W30177.D	92.0
JB15688-1DUP	3W30161.D	94.0
JB15931-1DUP	3W30184.D	91.0
V3W1159-SCC	3W29713.D	90.0
V3W1175-BS	3W30148.D	109.0
V3W1175-BSD	3W30149.D	110.0
V3W1175-MB	3W30150.D	97.0
V3W1176-BS	3W30170.D	109.0
V3W1176-BSD	3W30171.D	108.0
V3W1176-MB	3W30172.D	80.0
V3W1159-BS	3W29701.D	102.0
V3W1159-BSD	3W29702.D	102.0
V3W1159-MB	3W29703.D	96.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

L.A.B. Validation Corp, 14 West Point Drive, East Northport, NY 11731

DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY

ORGANIC ANALYSIS

TARGET COMPOUND LIST (TCL) VOLATILES BY GC/MS

For Groundwater Samples Collected
November 19, 2012
From West Merrick Road, Freeport, NY
Elks Plaza
Collected by CA Rich Consultants

SAMPLE DELIVERY GROUP NUMBER:
JB21837
BY ACCUTEST LABORATORIES (ELAP #10983)

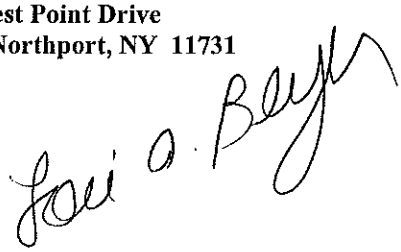
SUBMITTED TO:

Mr. Jason Cooper
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803

December 26, 2012

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731



(516) 523-7891; email LABValidation@aol.com

Elks Plaza, West Merrick Road, Freeport, NY – Groundwater Samples; November 2012 Sampling Event.

Data Usability Summary Report (Data Validation): TCL Volatiles.

Table of Contents:

Introduction
Data Qualifier Definitions
Sample Receipt

1.0 Target Compound List (TCL) Volatile Organics by GC/MS SW846 Method 8260B
- 1.1 Holding Time
- 1.2 System Monitoring Compound (Surrogate) Recovery
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 1.4 Laboratory Control Sample/Blank Spikes
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check (Tuning)
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Field Duplicates
- 1.10 Target Compound List Identification
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

APPENDICES:

A. Data Summary Tables/Form Is with Qualifications
B. Chain of Custody Documents
C. SDG Narrative

Introduction:
A validation was performed on groundwater samples and the associated quality control samples for organic analysis for samples collected under chain of custody documentation by CA Rich Consultants and submitted to Accutest Laboratories for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. The groundwater samples were collected on November 19, 2012.

The samples were analyzed by Accutest Laboratories, utilizing SW846 Methods and submitted under NYSDEC ASP Category B (2005) equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of the Target Compound/Analyte Lists for Volatile Organics.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic Data Review and EPA Region II SOPs for 8260 and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following samples:

Sample Identification	Laboratory Identification	Sample Matrix	Date Collected	Date Received
MW-1 (plus MS/MSD)	JB21837-1, JB21837-1D, JB21837-1S	Groundwater	11/19/12	11/20/12
MW-2	JB21837-2	Groundwater	11/19/12	11/20/12
MW-3	JB21837-3	Groundwater	11/19/12	11/20/12
MW-XX (Field Duplicate of MW-2)	JB21837-4	Groundwater	11/19/12	11/20/12
Field Blank	JB21837-7	Aqueous	11/19/12	11/20/12
Purge Water	JB21837-8	Aqueous	11/19/12	11/20/12
Trip Blank	JB21837-9	Aqueous	11/19/12	11/20/12

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

Sample Receipt:
The Chain of Custody documents indicate that the samples were received at Accutest Laboratories via laboratory courier on 11/20/12 upon completion of the sampling event. Sample login notes were generated. The cooler temperature for all samples were recorded upon receipt at Accutest Laboratories and determined to be acceptable (<6.0 degrees C). The actual temperature is recorded on the chain of custody document in addition to the case narratives provided in Appendix B and C of this report.

No problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report.

NOTE:
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Target Analyte List (TCL) Volatile Organics by GC/MS SW846 Method 8260B

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of non-detects of Acetone and 2-Butanone in all field samples due to low initial and continuing calibration response factors as noted within the following as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "UJ", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to this SDG.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence and were spiked with all components as required by the analytical procedure. Site-specific MS/MSD was performed by the laboratory on sample MW-1 as required by chain of custody. Spike recoveries and RPD values fell within acceptance ranges.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spike recovery values fell within acceptance limits.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but </=10x blank value	Sample Conc. is <CRQL and </=10x blank value	Sample Conc. is >CRQL and >10x blank value
Other Contaminants	Sample Conc. Is >CRQL, but </=5x blank value	Sample Conc. Is <CRQL and </=5x blank value	Sample Conc. is >CRQL and >5x blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

No target analytes were detected in the method blanks associated with sample analysis.

B) **Field Blank Contamination:**

Target analytes were not detected in the Field Blank.

C) **Trip Blank Contamination:**

No target analytes were detected in the Trip Blank associated with sample analysis.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:
The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05), for the initial and continuing calibrations for all reported TCL analytes with the following exceptions:

ICAL 10/01/12; Instrument GCMS4B; Acetone; 0.028 and 2-Butanone; 0.039. Non-detects in the in all samples have been rejected, "R."

CCAL 11/30/12; Instrument GCMS4B; Acetone 0.025 and 2-Butanone; 0.041. These compounds were previously rejected, "R" due to ICAL response.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (25%) for all reported compounds.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Tert Butyl Alcohol-D9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with this SDG.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples.

Sample MW-1 was collected in duplicate; a summary of positive detections (ug/L) is summarized below:

	MW-2	MW-XX
Cis-1,2-Dichloroethene	**6.7**	**6.5**
Tetrachloroethene	**17.5**	**17.7**
Trichloroethene	**9.9**	**10.2**

Acceptable precision was observed.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846, response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Groundwater samples were analyzed undiluted.

1.11 Overall System Performance
Good resolution and chromatographic performance were observed. Raw data was reviewed and confirmed that no carryover exists for any analysis conducted with this data set.

Tentatively Identified Compounds (TICs) were not generated and therefore not evaluated.

Reviewer's Signature Lori A. Beyer **Date** 12/26/12

Appendix A
Data Summary Tables/Form I's
With Qualifications

Table 2
Volatile Organic Compounds in Monitoring Wells
Elks Plaza
Freeport, NY

Sample ID Matrix Date Sampled Units	NYS TOGS Groundwater Standards ug/l	MW-1 Ground Water 11/19/2012 ug/l	MW-2 Ground Water 11/19/2012 ug/l	MW-3 Ground Water 11/19/2012 ug/l	MW-XX Ground Water 11/19/2012 ug/l	PURGE WATER Ground Water 11/19/2012 ug/l	11/19 FIELD Field Blank Water 11/19/2012 ug/l	TRIP BLANK Trip Blank Water 11/19/2012 ug/l
Volatiles (SW846 8260B)								
Acetone	NS	ND R	ND R	ND R	ND R	ND R	ND R	ND R
Benzene	1	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	NS	ND R	ND R	ND R	ND R	ND R	ND R	ND R
Carbon disulfide	60	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NS	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0006	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	6.7	0.68 J	6.5	0.99 J	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NS	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Freon 113	5	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	ND	ND	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	10	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone(MIBK)	NS	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	17.5	ND	17.7	2.1	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	9.9	0.41 J	10.2	1.4	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	5	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	5	0.32 J	ND	ND	ND	ND	ND	ND

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits.
NS- No standard for specific compound

- Value Exceeds Standard - Monitoring Required
MW-XX is a duplicate of MW-2
ug/l= micrograms per liter or parts per billion

12/26/12

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JB21837-1	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24325.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND R	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

12/28/12

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JB21837-1	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	0.32	1.0	0.24	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	110%		74-127%
2037-26-5	Toluene-D8	104%		80-122%
460-00-4	4-Bromofluorobenzene	99%		78-116%

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

Raw Data: 4B24326.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JB21837-2	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24326.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~ND~~ R	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	~~ND~~ R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.7	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

12/26/12

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JB21837-2	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	17.5	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	9.9	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	109%		74-127%
2037-26-5	Toluene-D8	101%		80-122%
460-00-4	4-Bromofluorobenzene	97%		78-116%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JB21837-3	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24327.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~ND~~ R	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	~~ND~~ R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.68	1.0	0.19	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

12/26/12

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JB21837-3	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	0.41	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	109%		74-127%
2037-26-5	Toluene-D8	101%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-XX		
Lab Sample ID:	JB21837-4	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24328.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~ND~~ R	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	~~ND~~ R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.5	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

12/26/12

Report of Analysis

Client Sample ID:	MW-XX		
Lab Sample ID:	JB21837-4	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	17.7	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	10.2	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	109%		74-127%
2037-26-5	Toluene-D8	103%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	11/19 FIELD		
Lab Sample ID:	JB21837-7	Date Sampled:	11/19/12
Matrix:	AQ - Field Blank Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24329.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~ND~~ R	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	~~ND~~ R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

12/26/12

Report of Analysis

Client Sample ID:	11/19 FIELD		
Lab Sample ID:	JB21837-7	Date Sampled:	11/19/12
Matrix:	AQ - Field Blank Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	110%		74-127%
2037-26-5	Toluene-D8	102%		80-122%
460-00-4	4-Bromofluorobenzene	99%		78-116%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	PURGE WATER		
Lab Sample ID:	JB21837-8	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24330.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~ND~~ R	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	~~ND~~ R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.99	1.0	0.19	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

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

12/6/12

Report of Analysis

Client Sample ID:	PURGE WATER		
Lab Sample ID:	JB21837-8	Date Sampled:	11/19/12
Matrix:	AQ - Ground Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	2.1	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	1.4	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	110%		74-127%
2037-26-5	Toluene-D8	102%		80-122%
460-00-4	4-Bromofluorobenzene	96%		78-116%

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

Raw Data: 4B24331.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB21837-9	Date Sampled:	11/19/12
Matrix:	AQ - Trip Blank Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24331.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	~~ND~~ R	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	~~ND~~ R	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

12/28/12

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB21837-9	Date Sampled:	11/19/12
Matrix:	AQ - Trip Blank Water	Date Received:	11/20/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	108%		74-127%
2037-26-5	Toluene-D8	102%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

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

Appendix B
Chain of Custody
Documents

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE ___ OF ___

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # JB21837

Client / Reporting Information

Company Name: C A Rich
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail: eweinstock@carichny.com
Phone #: 5165768844 Fax #:
Sampler(s) Name(s): Thomas Brown Phone #: 5165768844

Project Information

Project Name: Elks Plaza
Street: West Merrick Road
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VOCs By Method 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	MeOH	NaOH	H2SO4	HNO3	DI Water	NaHSO4	ENCORE	LAB USE ONLY
1	MW-1		11/19/12	120	TB	GW	3	X								
2	MW-2		11/19/12	1250	TB	GW	3	X								
3	MW-3		11/19/12	1210	TB	GW	3	X								4990
4	MW-XX		11/19/12	1250	TB	GW	3	X								
5	11/19 MS		11/19/12	120	TB	GW	3	X								
6	11/19 MSD		11/19/12	120	TB	GW	3	X								
7	11/19 Field		11/19/12	130	TB	FB	2	X								
8	Purge Water		11/19/12	140	TB	GW	3	X								
9	Trip Blank		11/19/12		TB	TB	2	X								

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Labsite

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

11/19 MS + MSD are from well # MW-1

Total of 25 bottles shipped

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Thomas Brown	11/20/12 1145	Chris Laul	Chris Laul	11/20/12 1725	Tyler
2						
3						
4						
5						

Custody Seal # 598 | [ ] Intact [ ] Not Intact | Preserved where applicable [ ] | On Ice [X] | Cooler Temp. 3.0°C

Cart 1

B

5.1

5

JB21837: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB21837 **Client:** _____ **Project:** _____

Date / Time Received: 11/20/2012 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Bar Therm
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☑ ☐	☐
2. Trip Blank listed on COC:	☑ ☐	☐
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume recvd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

5.1

JB21837: Chain of Custody
Page 2 of 2

Appendix C
SDG Narrative

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB21837
Site:	Elks Plaza, Freeport, NY	**Report Date**	12/5/2012 2:47:50 PM

On 11/20/2012, 5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB21837 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V4B1067

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB21837-1MS, JB21837-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey ACCUTEST LABORATORIES

01/10/13

Technical Report for

C. A. Rich Consultants

Elks Plaza, Freeport, NY

GALAXY/ELKS PLAZA/SSD

Accutest Job Number: JB21837

Sampling Date: 11/19/12

Report to:

C. A. Rich Consultants

jcooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **23**

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

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Sections: 1 2 3 4 5

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **6**
4.1: JB21837-1: MW-1 7
4.2: JB21837-2: MW-2 9
4.3: JB21837-3: MW-3 11
4.4: JB21837-4: MW-XX 13
4.5: JB21837-7: 11/19 FIELD 15
4.6: JB21837-8: PURGE WATER 17
4.7: JB21837-9: TRIP BLANK 19
Section 5: Misc. Forms **21**
5.1: Chain of Custody 22

Sample Summary

C. A. Rich Consultants

Job No: JB21837

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB21837-1	11/19/12	13:20	TB	11/20/12	AQ	Ground Water	MW-1
JB21837-1D	11/19/12	13:20	TB	11/20/12	AQ	Water Dup/MSD	11/19 MSD
JB21837-1S	11/19/12	13:20	TB	11/20/12	AQ	Water Matrix Spike	11/19 MS
JB21837-2	11/19/12	12:50	TB	11/20/12	AQ	Ground Water	MW-2
JB21837-3	11/19/12	12:10	TB	11/20/12	AQ	Ground Water	MW-3
JB21837-4	11/19/12	12:50	TB	11/20/12	AQ	Ground Water	MW-XX
JB21837-7	11/19/12	13:30	TB	11/20/12	AQ	Field Blank Water	11/19 FIELD
JB21837-8	11/19/12	13:40	TB	11/20/12	AQ	Ground Water	PURGE WATER
JB21837-9	11/19/12	13:40	TB	11/20/12	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB21837
Site:	Elks Plaza, Freeport, NY	**Report Date**	12/5/2012 2:47:50 PM

On 11/20/2012, 5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB21837 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V4B1067

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB21837-1MS, JB21837-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB21837
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 11/19/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB21837-1	**MW-1**					
Xylene (total)		0.32 J	1.0	0.24	ug/l	SW846 8260B
JB21837-2	**MW-2**					
cis-1,2-Dichloroethene		6.7	1.0	0.19	ug/l	SW846 8260B
Tetrachloroethene		17.5	1.0	0.28	ug/l	SW846 8260B
Trichloroethene		9.9	1.0	0.22	ug/l	SW846 8260B
JB21837-3	**MW-3**					
cis-1,2-Dichloroethene		0.68 J	1.0	0.19	ug/l	SW846 8260B
Trichloroethene		0.41 J	1.0	0.22	ug/l	SW846 8260B
JB21837-4	**MW-XX**					
cis-1,2-Dichloroethene		6.5	1.0	0.19	ug/l	SW846 8260B
Tetrachloroethene		17.7	1.0	0.28	ug/l	SW846 8260B
Trichloroethene		10.2	1.0	0.22	ug/l	SW846 8260B
JB21837-7	**11/19 FIELD**					
No hits reported in this sample.						
JB21837-8	**PURGE WATER**					
cis-1,2-Dichloroethene		0.99 J	1.0	0.19	ug/l	SW846 8260B
Tetrachloroethene		2.1	1.0	0.28	ug/l	SW846 8260B
Trichloroethene		1.4	1.0	0.22	ug/l	SW846 8260B
JB21837-9	**TRIP BLANK**					
No hits reported in this sample.						

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JB21837-1	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24325.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JB21837-1	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	0.32	1.0	0.24	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	110%		74-127%
2037-26-5	Toluene-D8	104%		80-122%
460-00-4	4-Bromofluorobenzene	99%		78-116%

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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JB21837-2	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24326.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.7	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JB21837-2	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	17.5	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	9.9	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	109%		74-127%
2037-26-5	Toluene-D8	101%		80-122%
460-00-4	4-Bromofluorobenzene	97%		78-116%

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JB21837-3	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24327.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.68	1.0	0.19	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JB21837-3	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	0.41	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	109%		74-127%
2037-26-5	Toluene-D8	101%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

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

Report of Analysis

Client Sample ID:	MW-XX		
Lab Sample ID:	JB21837-4	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24328.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.5	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	MW-XX		
Lab Sample ID:	JB21837-4	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	17.7	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	10.2	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	109%		74-127%
2037-26-5	Toluene-D8	103%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

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

Report of Analysis

Client Sample ID:	11/19 FIELD		
Lab Sample ID:	JB21837-7	**Date Sampled:**	11/19/12
Matrix:	AQ - Field Blank Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24329.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	11/19 FIELD		
Lab Sample ID:	JB21837-7	**Date Sampled:**	11/19/12
Matrix:	AQ - Field Blank Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	110%		74-127%
2037-26-5	Toluene-D8	102%		80-122%
460-00-4	4-Bromofluorobenzene	99%		78-116%

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

Report of Analysis

Client Sample ID:	PURGE WATER		
Lab Sample ID:	JB21837-8	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24330.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.99	1.0	0.19	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	PURGE WATER		
Lab Sample ID:	JB21837-8	**Date Sampled:**	11/19/12
Matrix:	AQ - Ground Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	2.1	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	1.4	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-121%
17060-07-0	1,2-Dichloroethane-D4	110%		74-127%
2037-26-5	Toluene-D8	102%		80-122%
460-00-4	4-Bromofluorobenzene	96%		78-116%

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB21837-9	**Date Sampled:**	11/19/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/20/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B24331.D	1	11/30/12	TYG	n/a	n/a	V4B1067
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: JB21837-9
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: Elks Plaza, Freeport, NY

Date Sampled: 11/19/12
Date Received: 11/20/12
Percent Solids: n/a

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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17060-07-0	1,2-Dichloroethane-D4	108%		74-127%
2037-26-5	Toluene-D8	102%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

GW FB WB

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE ___ OF ___

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB21837

Client / Reporting Information

Company Name: CA Rich
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail: eweinstock@carichcorp.com
Phone #: 516 576 8844 Fax #:
Sampler(s) Name(s): Thomas Brown Phone #: (516) 576 8844

Project Information

Project Name: Elks Plaza
Street: West Merrick Road
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VOCs By Method 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
-1	MW-1		11/19/12	120	TB	GW	3	X								
-2	MW-2		11/19/12	1250	TB	GW	3	X								
-3	MW-3		11/19/12	1210	TB	GW	3	X								4990
-4	MW-XX		11/19/12	1250	TB	GW	3	X								
-A	11/19 MS	1-1	11/19/12	120	TB	GW	3	X								
-AC	11/19 MSD	1-1	11/19/12	120	TB	GW	3	X								
-5	11/19 Field		11/19/12	130	TB	FB	2	X								
-8	Purge Water		11/19/12	140	TB	GW	3	X								
-9	Trip Blank		11/19/12			TB	2	X								

Turnaround Time (Business days)

- [X] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

11/19 MS + MSD are from well # MW-1

Total of 25 bottles shipped

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Thomas Brown	11/20/12 11:15	Chris Laul	Chris Laul	11/20/12 1725	
2						
3						
4						
5						

Custody Seal #: Intact / Not intact — Preserved where applicable — On Ice — Cooler Temp. 3.0°C

Cart 1

13

5.1 5

JB21837: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB21837 **Client:** **Project:**

Date / Time Received: 11/20/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

DATA USABILITY SUMMARY REPORT (DUSR)

ORGANIC ANALYSIS

EPA Compendium Method TO-15
VOLATILES BY GC/MS

For Air/Soil Gas Samples Collected
February 22, 2013
From Elks Plaza
157-189 West Merrick Road, Freeport, NY
CA Rich Consultants, Inc.

SAMPLE DELIVERY GROUP NUMBER: JB29729
Accutest Laboratories (ELAP #10983)

SUBMITTED TO:

Mr. Jason Cooper
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, New York 11803

April 01, 2013

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731

Lori A. Beyer

Phone (516) 523-7891 email LABValidation@aol.com

Elks Plaza, West Merrick Road, Freeport, Hicksville, New York; February 2013.
Data Validation Report: Volatile Organics

Table of Contents:

Introduction
Data Qualifier Definitions
Sample Receipt

1.0 Volatile Organics by GC/MS EPA Compendium Method TO-15
- 1.1 Holding Time
- 1.2 Surrogate Standards
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD), Duplicate Analysis
- 1.4 Laboratory Control Sample
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Target Compound List Identification
- 1.10 Tentatively Identified Compounds
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

APPENDICES:
- A. Data Summary Form Is with Qualifications
- B. Chain of Custody Document
- C. SDG Narrative

Introduction:

A validation was performed on eight (8) soil gas [air] samples for Volatile Organic analysis collected by CA Rich Consultants and submitted to Accutest Laboratories, Inc. for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the eight (8) field samples itemized below. The samples were collected on February 22, 2013.

The samples were analyzed by Accutest utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol (2005) and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the selected TO-15 Target Compound List (TCL) of analytes for Volatile Organics listed in Appendix A.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 4-Updated 2009) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following field soil gas/air samples:

Sample Identification	Laboratory Identification(s)	Sample Matrix (Air Type)	Collection Date
SSG-5 2/22/13	JB29729-1	Soil Vapor Comp	2/22/13
IAG-5 2/22/13	JB29729-2	Indoor Air Comp	2/22/13
SSB-12 2/22/13	JB29729-3	Soil Vapor Comp	2/22/13
IAB-12 2/22/13	JB29729-4	Indoor Air Comp	2/22/13
SS BASEMENT 2/22/13	JB29729-5	Soil Vapor Comp	2/22/13
IA BASEMENT 2/22/13	JB29729-6	Indoor Air Comp	2/22/13
AA-1 2/22/13	JB29729-7	Ambient Comp	2/22/13
SS-XX (DUPLICATE OF SS BASEMENT 2/22/13)	JB29729-8	Soil Vapor Comp	2/22/13

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL - The analyte was not detected and the reported quantitation limit is most likely higher than reported.

Sample Receipt:

The Chain of Custody document from 02/22/13 indicates that eight (8) air samples were shipped via federal express to Accutest Laboratories and received on 02/26/13 following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory no discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results were considered to be valid and useable as noted on the data summary tables in Appendix A and within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Air samples pertaining to this SDG were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

Canister pressure gauge was within requirements of 30 psi prior to sampling.

1.2 Surrogate Standards

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Recoveries for 4-Bromofluorobenzene fell within in house established ranges of 65-128% for all analyses pertaining to this SDG.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to this SDG. The laboratory performed a blank spike/blank spike duplicate with each batch and all recovery values were determined to be acceptable (>70% - <130%) for all compounds. Acceptable RPD was also observed.

Batch duplicate analysis was submitted with these data packages. Acceptable precision (RPD) was observed for detected compounds for non-site specific QC with the following exceptions:

Trichlorofluoromethane – 28%. Based on professional judgment, no qualifications were applied to samples as a result on non site-specific QC outliers.

Field Duplicate analysis (SS-XX) was collected on SS Basement 2/22/13. Acceptable precision for air samples is 25%. The following criteria are utilized for Field Duplicate analysis:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent of duplicate sample. However, the detected concentration was </=2x the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample However, the detected concentration was >2x the reporting limit.	J in the parent or duplicate sample	UJ in the parent of duplicate sample

Based on these criteria, the following analytes were qualified as estimated, "J" in both SS Basement 2/22/13 and SS-XX:

Ethanol, Ethyl Acetate, Methylene Chloride, 2-Butanone, 1,2,4-Trimethylbenzene, Tetrachloroethene, Tetrahydrofuran, Toluene, m,p-Xylene and Total Xylene.

1.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Additional QC samples were not analyzed which is acceptable per the method since a blank spike/blank spike duplicate was analyzed.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but </=10x blank value	Sample Conc. is <CRQL and </=10x blank value	Sample Conc. is >CRQL and >10x blank value
Other Contaminants	Sample Conc. Is >CRQL, but </=5x blank value	Sample Conc. Is <CRQL and </=5x blank value	Sample Conc. is >CRQL and >5x blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

Method and Canister blanks were determined to be free of any contamination.

Canister cleaning documentation met QC requirements.

B) **Field Blank Contamination:**

Field Blank analysis was not conducted for this SDG.

C) **Trip Blank Contamination:**

Trip Blank analysis was not submitted with this SDG.

D) **Storage Blank Contamination:**

Storage blanks were not submitted for this SDG. It should be noted that storage blanks are not mandated by EPA Method TO-15.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for these SDGs.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:
The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds are allowed to be >0.01 without qualification:
2-Butanone
Carbon Disulfide
Chloroethane
Chloromethane
1,2-Dibromoethane
1,2-Dichloropropane
1,4-Dioxane
1,2-Dibromo-3-chloroproane
Methylene Chloride

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) [or >/=0.01 for the 9 compounds above], for the initial and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are

qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all target compounds with the following exceptions:

1,2,4-Trichlorobenzene – 34.0%; ICAL 01/10/13; "UJ" samples AA-1 2/22/13 and SS-XX.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) for all target compounds with the following exceptions: None

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to +40%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to +40%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all analysis pertaining to this data set.

1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectra which has a ratio of the primary

and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Tentatively Identified Compounds (TICs)

TICs were reported in accordance with the project requirements. The identification must be considered tentative (both quantitative and qualitative) due to the lack of required compound specific response factors. Consequently all concentrations should be considered estimated, "J" and as a result of the qualitative uncertainty should be qualified, "N" where an identification has been made.

TICs were not submitted with this data set.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

Sample results have been presented in ug/m3 as well as ppbv by the laboratory on the Form I's.

All samples were analyzed undiluted.

1.12 Overall System Performance

GC/MS analytical methodology was acceptable for this analysis except where explained in the laboratory SDG Narrative and the detailed validation report. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature Lori A. Bay **Date** 04/01/13

Appendix A
Data Summary
Form I's
With Qualifications

Elks Plaza

Table ?
Validated Volatile Organic Compounds in Sub-Slab Vapor, Indoor Air, and Ambiant Air Samples
Woodward Childrens Center
Freeport, NY

Sample ID	IAB-12 2/22/13	IAG-5 2/22/13	IABasement 2/22/13	*NYSDOH 2006	SSB-12 2/22/13	SSG-5 2/22/13	SSBasement 2/22/13	SS-XX	*NYSDOH 2006	AA-1 2/22/13
Matrix	Indoor Air	Indoor Air	Indoor Air	Matrix1/Matrix 2	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Matrix1/Matrix 2	Ambiant Air
Date Sampled	2/22/2013	2/22/2013	2/22/2013	Indoor Air	2/22/2013	2/22/2013	2/22/2013	2/22/2013	Sub-Slab Vapor	2/22/2013
Volatile Organic Compounds										
Units	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Acetone	19	11	3.6	NS	14	14	17	16	NS	7.6
1,3-Butadiene	ND	ND	ND	NS	2.7	ND	ND	ND	NS	ND
Benzene	1.2	1.2	1.0	NS	13	3.8	4.5	1.9 J	NS	1.8
Bromodichloromethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Bromoform	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Bromomethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Bromoethene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Benzyl Chloride	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Carbon disulfide	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Chlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Chloroethane	ND	1.1	ND	NS	ND	ND	ND	ND	NS	ND
Chloroform	0.73 J	ND	ND	NS	ND	ND	ND	ND	NS	ND
Chloromethane	1.8	ND	0.93	NS	ND	ND	ND	ND	NS	1.5
3-Chloropropene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
2-Chlortoluene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Carbon tetrachloride	ND	ND	ND	< 0.25	ND	ND	ND	ND	< 5	ND
Cyclohexane	ND	ND	ND	NS	ND	4.1	ND	ND	NS	ND
1,1-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,1-Dichloroethylene	ND	ND	ND	< 3	ND	ND	ND	ND	< 100	ND
1,2-Dibromoethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,2-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,2-Dichloropropane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,4-Dioxane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Dichlorodifluoromethane	2.5	2.5	2.5	NS	2.9 J	2.6 J	3.1 J	2.6 J	NS	2.8
Dibromochloromethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
trans-1,2-Dichloroethylene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
cis-1,2-Dichloroethylene	ND	ND	ND	< 3	ND	ND	ND	ND	<100	ND
cis-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
m-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
o-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
p-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
trans-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Ethanol	46.9	64.8	5.8	NS	18	11	26.6 J	14 J	NS	55.8
Ethylbenzene	ND	ND	ND	NS	4.3	5.2	6.9	5.2	NS	ND
Ethyl acetate	3.0	4.3	4.0	NS	4.3	2.1 J	6.5 J	9.7 J	NS	4.7
4-Ethyltoluene	ND	ND	ND	NS	ND	2.3 J	2.5 J	ND	NS	ND
Freon 113	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Freon 114	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Heptane	0.66 J	0.70 J	ND	NS	4.9	ND	ND	ND	NS	ND
Hexachlorobutadiene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Hexane	0.49 J	0.74	ND	NS	3.9	1.7 J	2.9	ND	NS	0.49 J
2-Hexanone	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Isopropyl Alcohol	22	28.5	1.2	NS	1.8 J	1.6 J	3.2	ND	NS	1.1
Methylene chloride	1.0	1.3	1.4	NS	2.8	ND	18 J	3.1 J	NS	0.76
Methyl ethyl ketone	1.5	0.62	ND	NS	4.1	3.5	7.4 J	4.4 J	NS	10
Methyl Isobutyl Ketone	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Methyl Tert Butyl Ether	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Methylmethacrylate	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Propylene	ND	ND	ND	NS	13	ND	ND	ND	NS	1.5
Styrene	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,1,1-Trichloroethane	ND	ND	ND	< 3	ND	ND	ND	ND	< 100	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,1,2-Trichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
1,2,4-Trichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND UJ	NS	ND UJ
1,2,4-Trimethylbenzene	1.4	ND	ND	NS	4.0	6.4	9.8 J	6.4 J	NS	ND
1,3,5-Trimethylbenzene	0.69 J	ND	ND	NS	ND	1.9 J	2.6 J	2.0 J	NS	ND
2,2,4-Trimethylpentane	0.61 J	0.65 J	ND	NS	ND	ND	ND	ND	NS	0.70 J
Tertiary Butyl Alcohol	ND	ND	ND	NS	ND	ND	ND	ND	NS	ND
Tetrachloroethylene	0.27	ND	ND	< 3	10	2.2	71.2 J	163 J	< 100	ND
Tetrahydrofuran	ND	0.62	ND	NS	4.1	ND	7.4 J	3.5 J	NS	ND
Toluene	1.1	1.1	ND	NS	15	14	30	16	NS	0.98
Trichloroethylene	ND	ND	ND	< 0.25	ND	2.0	ND	ND	< 5	ND
Trichlorofluoromethane	1.6	1.5	1.5	NS	ND	ND	3.0 J	ND	NS	1.3
Vinyl chloride	ND	ND	ND	< 0.25	ND	ND	ND	ND	< 5	ND
Vinyl Acetate	2.2	ND	ND	NS	ND	ND	ND	ND	NS	ND
m,p-Xylene	0.65 J	0.56 J	ND	NS	14	19	25 J	18 J	NS	0.48 J
o-Xylene	ND	ND	ND	NS	4.3	6.1	7.8	6.5 J	NS	ND
Xylenes (total)	0.65 J	0.56 J	ND	NS	19	25	33 J	24 J	NS	0.48 J

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits.
NS- No standard for specific compound
SS-XX is a duplicate of SSBasement 2/22/13
ug/m^3 - micrograms per cubic meters

*NYSDOH guidance for evaluating Soil Vapor in the State of New York Oct. 2006 Matrix 1 & 2 levels for "No Further Action"
- Value Exceeds Standard - Monitoring Required

3/30/13

Accutest Laboratories

Report of Analysis

Client Sample ID:	SSG-5 2/22/13		
Lab Sample ID:	JB29729-1	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A455	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37601.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	5.7	0.80	0.28	ppbv		14	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	1.2	0.80	0.11	ppbv		3.8	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	1.2	0.80	0.20	ppbv		4.1	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.80	0.095	ppbv	J	2.6	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID:	SSG-5 2/22/13		
Lab Sample ID:	JB29729-1	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A455	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	6.1	2.0	0.68	ppbv		11	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.12	ppbv		5.2	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	0.58	0.80	0.51	ppbv	J	2.1	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.46	0.80	0.11	ppbv	J	2.3	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	0.47	0.80	0.20	ppbv	J	1.7	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.65	0.80	0.26	ppbv	J	1.6	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.2	0.80	0.17	ppbv		3.5	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	ND	2.0	0.14	ppbv		ND	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.38	ppbv		ND	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.3	0.80	0.12	ppbv		6.4	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.39	0.80	0.18	ppbv	J	1.9	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.33	0.16	0.097	ppbv		2.2	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.30	ppbv		ND	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	3.8	0.80	0.13	ppbv		14	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	0.37	0.16	0.14	ppbv		2.0	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	4.3	0.80	0.23	ppbv		19	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.4	0.80	0.15	ppbv		6.1	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	5.7	0.80	0.15	ppbv		25	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		65-128%

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

Raw Data: 2W37602.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	IAG-5 2/22/13		
Lab Sample ID:	JB29729-2	Date Sampled:	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A089	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37602.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	4.5	0.20	0.069	ppbv		11	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.37	0.20	0.029	ppbv		1.2	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.52	0.20	0.055	ppbv		1.1	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.024	ppbv		2.5	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Report of Analysis

Client Sample ID:	IAG-5 2/22/13		
Lab Sample ID:	JB29729-2	Date Sampled:	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A089	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	34.4	0.50	0.17	ppbv		64.8	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	1.2	0.20	0.13	ppbv		4.3	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	0.17	0.20	0.028	ppbv	J	0.70	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.21	0.20	0.050	ppbv		0.74	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	11.6	0.20	0.065	ppbv		28.5	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.37	0.20	0.055	ppbv		1.3	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.21	0.20	0.042	ppbv		0.62	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.14	0.20	0.031	ppbv	J	0.65	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.21	0.20	0.074	ppbv		0.62	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.30	0.20	0.032	ppbv		1.1	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.028	ppbv		1.5	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.13	0.20	0.058	ppbv	J	0.56	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.13	0.20	0.037	ppbv	J	0.56	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		65-128%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	SSB-12 2/22/13		
Lab Sample ID:	JB29729-3	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A646	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37603.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	6.0	0.80	0.28	ppbv		14	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	1.2	0.80	0.11	ppbv		2.7	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	4.1	0.80	0.11	ppbv		13	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.20	ppbv		ND	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.58	0.80	0.095	ppbv	J	2.9	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID:	SSB-12 2/22/13		
Lab Sample ID:	JB29729-3	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A646	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	9.8	2.0	0.68	ppbv		18	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	0.99	0.80	0.12	ppbv		4.3	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	1.2	0.80	0.51	ppbv		4.3	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.11	ppbv		ND	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	1.2	0.80	0.11	ppbv		4.9	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	1.1	0.80	0.20	ppbv		3.9	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.74	0.80	0.26	ppbv	J	1.8	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	0.82	0.80	0.22	ppbv		2.8	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.4	0.80	0.17	ppbv		4.1	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	7.5	2.0	0.14	ppbv		13	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.38	ppbv		ND	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.82	0.80	0.12	ppbv		4.0	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.18	ppbv		ND	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.5	0.16	0.097	ppbv		10	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.4	0.80	0.30	ppbv		4.1	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	4.0	0.80	0.13	ppbv		15	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.14	ppbv		ND	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	3.2	0.80	0.23	ppbv		14	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.0	0.80	0.15	ppbv		4.3	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	4.3	0.80	0.15	ppbv		19	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		65-128%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	IAB-12 2/22/13		
Lab Sample ID:	JB29729-4	Date Sampled:	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A074	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37604.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	8.0	0.20	0.069	ppbv		19	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.38	0.20	0.029	ppbv		1.2	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	0.15	0.20	0.026	ppbv	J	0.73	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.89	0.20	0.055	ppbv		1.8	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.024	ppbv		2.5	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Report of Analysis

Client Sample ID:	IAB-12 2/22/13		
Lab Sample ID:	JB29729-4	Date Sampled:	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A074	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	24.9	0.50	0.17	ppbv		46.9	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	0.82	0.20	0.13	ppbv		3.0	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	0.16	0.20	0.028	ppbv	J	0.66	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.14	0.20	0.050	ppbv	J	0.49	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	8.8	0.20	0.065	ppbv		22	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.30	0.20	0.055	ppbv		1.0	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.52	0.20	0.042	ppbv		1.5	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.28	0.20	0.029	ppbv		1.4	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.14	0.20	0.044	ppbv	J	0.69	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.13	0.20	0.031	ppbv	J	0.61	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.040	0.040	0.024	ppbv		0.27	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.29	0.20	0.032	ppbv		1.1	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.28	0.20	0.028	ppbv		1.6	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	0.63	0.20	0.054	ppbv		2.2	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.15	0.20	0.058	ppbv	J	0.65	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.15	0.20	0.037	ppbv	J	0.65	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		65-128%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	SS BASEMENT 2/22/13		
Lab Sample ID:	JB29729-5	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A861	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37605.D	1.7	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	170 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	7.1	0.80	0.28	ppbv		17	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	1.4	0.80	0.11	ppbv		4.5	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.20	ppbv		ND	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.63	0.80	0.095	ppbv	J	3.1	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID:	SS BASEMENT 2/22/13		
Lab Sample ID:	JB29729-5	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A861	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	14.1 J	2.0	0.68	ppbv		26.6 J	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	1.6	0.80	0.12	ppbv		6.9	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	1.8 J	0.80	0.51	ppbv		6.5 J	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.51	0.80	0.11	ppbv	J	2.5	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	0.81	0.80	0.20	ppbv		2.9	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.3	0.80	0.26	ppbv		3.2	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	5.3 J	0.80	0.22	ppbv		18 J	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.5 J	0.80	0.17	ppbv		7.4 J	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	ND	2.0	0.14	ppbv		ND	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.38	ppbv		ND	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.0 J	0.80	0.12	ppbv		9.8 J	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.53	0.80	0.18	ppbv	J	2.6	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	10.5 J	0.16	0.097	ppbv		71.2 J	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.5 J	0.80	0.30	ppbv		7.4 J	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	8.0 J	0.80	0.13	ppbv		30 J	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.14	ppbv		ND	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.54	0.80	0.11	ppbv	J	3.0	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	5.8 J	0.80	0.23	ppbv		25 J	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.8	0.80	0.15	ppbv		7.8	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	7.6 J	0.80	0.15	ppbv		33 J	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		65-128%

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

3/30/13

Accutest Laboratories

Report of Analysis

Client Sample ID:	IA BASEMENT 2/22/13		
Lab Sample ID:	JB29729-6	Date Sampled:	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A853	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37606.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	1.5	0.20	0.069	ppbv		3.6	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.32	0.20	0.029	ppbv		1.0	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.45	0.20	0.055	ppbv		0.93	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.20	0.024	ppbv		2.5	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Report of Analysis

Client Sample ID:	IA BASEMENT 2/22/13		
Lab Sample ID:	JB29729-6	Date Sampled:	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A853	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	3.1	0.50	0.17	ppbv		5.8	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.20	0.13	ppbv		4.0	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.028	ppbv		ND	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.050	ppbv		ND	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.49	0.20	0.065	ppbv		1.2	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.39	0.20	0.055	ppbv		1.4	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.031	ppbv		ND	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.032	ppbv		ND	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.028	ppbv		1.5	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.058	ppbv		ND	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	75%		65-128%

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

Raw Data: 3W32510.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	AA-1 2/22/13		
Lab Sample ID:	JB29729-7	Date Sampled:	02/22/13
Matrix:	AIR - Ambient Air Comp. Summa ID: A193	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W32510.D	1	03/02/13	YXC	n/a	n/a	V3W1260
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	3.2	0.20	0.069	ppbv		7.6	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.56	0.20	0.029	ppbv		1.8	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.72	0.20	0.055	ppbv		1.5	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.20	0.024	ppbv		2.8	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	AA-1 2/22/13				
Lab Sample ID:	JB29729-7			Date Sampled:	02/22/13
Matrix:	AIR - Ambient Air Comp.	Summa ID:	A193	Date Received:	02/26/13
Method:	TO-15			Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY				

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	29.6	0.50	0.17	ppbv		55.8	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	1.3	0.20	0.13	ppbv		4.7	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.028	ppbv		ND	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.14	0.20	0.050	ppbv	J	0.49	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.43	0.20	0.065	ppbv		1.1	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.22	0.20	0.055	ppbv		0.76	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.4	0.20	0.042	ppbv		10	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	0.89	0.50	0.034	ppbv		1.5	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND UJ	0.20	0.095	ppbv		ND UJ	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.15	0.20	0.031	ppbv	J	0.70	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.26	0.20	0.032	ppbv		0.98	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.028	ppbv		1.3	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.11	0.20	0.058	ppbv	J	0.48	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.11	0.20	0.037	ppbv	J	0.48	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		65-128%

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

3/30/13

Accutest Laboratories

Report of Analysis

Client Sample ID:	SS-XX		
Lab Sample ID:	JB29729-8	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A259	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W32511.D	1	03/02/13	YXC	n/a	n/a	V3W1260
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	6.9	0.80	0.28	ppbv		16	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	0.61	0.80	0.11	ppbv	J	1.9	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.20	ppbv		ND	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.80	0.095	ppbv	J	2.6	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID:	SS-XX		
Lab Sample ID:	JB29729-8	Date Sampled:	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A259	Date Received:	02/26/13
Method:	TO-15	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	7.2 J	2.0	0.68	ppbv		14 J	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.12	ppbv		5.2	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	2.7 J	0.80	0.51	ppbv		9.7 J	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.11	ppbv		ND	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	ND	0.80	0.20	ppbv		ND	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.26	ppbv		ND	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	0.89 J	0.80	0.22	ppbv		3.1 J	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.5 J	0.80	0.17	ppbv		4.4 J	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	ND	2.0	0.14	ppbv		ND	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND UJ	0.80	0.38	ppbv		ND UJ	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.3 J	0.80	0.12	ppbv		6.4 J	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.40	0.80	0.18	ppbv	J	2.0	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	24.1 J	0.16	0.097	ppbv		163 J	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.2 J	0.80	0.30	ppbv		3.5 J	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	4.2 J	0.80	0.13	ppbv		16 J	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.14	ppbv		ND	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	4.1 J	0.80	0.23	ppbv		18 J	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.5	0.80	0.15	ppbv		6.5	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	5.6 J	0.80	0.15	ppbv		24 J	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

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

3/30/13

Appendix B
Chain of Custody

AIR

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Air Sampling Field Data Sheet

FED-EX Tracking # 7948 2361 2234 | Bottle Order Control # MC-2/19/2013-7 | PAGE 1 OF 1

Lab Quote # | Lab Job # JB29729

Client / Reporting Information

Company Name: CA Rich
Address: 17 Dupont Street
City: Plainview | State: NY | Zip: 11803
Project Contact: Eric Weinstock | E-mail: EweinStock@carichinc.com
Phone: (516) 576-8844 | Fax #
Sampler(s) Name(s): Thomas Brown

Project Name: Elks Plaza
Street: 157-169 West Merrick Road
City: Freeport | State: NY
Project #
Client Purchase Order #

Air Weather Parameters

Temperature (Fahrenheit)
Start: | Maximum:
Stop: | Minimum:
Atmospheric Pressure (inches of Hg)
Start: | Maximum:
Stop: | Minimum:
Other weather comment:

Requested Analysis

Standard TO-15 Reporting List

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Standard TO-15 Reporting List
-1	SS G-S 2/22/13	SV	A455	6L	FC138	2/22/13	0740	-30		TB	2/22/13	1515	6		TB	X
-2	IA G-S 2/22/13	I	A089	6L	FC498	2/22/13	0740	-30		TB	2/22/13	1515	7		TB	X
-3	SS B-12 2/22/13	SV	A0446	6L	FC494	2/22/13	0745	-30		TB	2/22/13	1525	8		TB	X
-4	IA B-12 2/22/13	I	A074	6L	FC505	2/22/13	0745	-30		TB	2/22/13	1525	7		TB	X
-5	SS Basement 2/22/13	SV	A861	6L	FC457	2/22/13	0750	-30		TB	2/22/13	1535	10		TB	X
-6	IA Basement 2/22/13	I	A853	6L	FC465	2/22/13	0751	-30		TB	2/22/13	1535	7		TB	X
-7	AA-1 2/22/13	A	A193	6L	FC450	2/22/13	0723	-30		TB	2/22/13	1540	7		TB	X
-8	SS-XX	SV	A259	6L	FC522	2/22/13	0751	-30		TB	2/22/13	1535	5		TB	X

Turnaround Time (Business days)

Standard - 15 Days | 10 Day | 5 Day | 3 Day | 2 Day | 1 Day | Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A | Comm B | Reduced T2 | Full T1 | Other: NY ASP Cat B

Comments / Remarks

SUMM

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Thomas Brown	2/20/13 16:35	1	2	2/25/13	2 FEDEX
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3 FEDEX	2/26/13 1030	3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #		
5		5	728, 730 INTACT		

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JB29729: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB29729 **Client:** _____ **Project:** _____

Date / Time Received: 2/26/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

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JB29729: Chain of Custody
Page 2 of 2

Appendix C
SDG Narrative

ACCUTEST LABORATORIES

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB29729
Site:	Elks Plaza, Freeport, NY	**Report Date**	3/12/2013 10:02:33 A

On 02/26/2013, 8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB29729 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** V2W1574

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29675-5DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** V3W1260

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB30025-6DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Trichlorofluoromethane are outside control limits for sample JB30025-6DUP. High RPD due to low concentration of hit

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey ACCUTEST LABORATORIES

04/02/13

Technical Report for

C. A. Rich Consultants

Elks Plaza, Freeport, NY

GALAXY/ELKS PLAZA/SSD

Accutest Job Number: JB29729

Sampling Date: 02/22/13

Report to:

C. A. Rich Consultants

jcooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **326**

ACCREDITED IN ACCORDANCE WITH nelac

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

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sections: 1 2 3 4 5 6

Table of Contents

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **12**
4.1: JB29729-1: SSG-5 2/22/13 13
4.2: JB29729-2: IAG-5 2/22/13 15
4.3: JB29729-3: SSB-12 2/22/13 17
4.4: JB29729-4: IAB-12 2/22/13 19
4.5: JB29729-5: SS BASEMENT 2/22/13 21
4.6: JB29729-6: IA BASEMENT 2/22/13 23
4.7: JB29729-7: AA-1 2/22/13 25
4.8: JB29729-8: SS-XX 27
Section 5: Misc. Forms **29**
5.1: Chain of Custody 30
5.2: Summa Canister and Flow Controller Log 32
Section 6: GC/MS Volatiles - Raw Data **33**
6.1: Samples 34
6.2: Method Blanks 128
6.3: Blank Spike/Blank Spike Duplicates 134
6.4: Duplicates 164
6.5: Summa Cleaning Certifications 190
6.6: Instrument Performance Checks (BFB) 192
6.7: Initial and Continuing Calibarations 202
6.8: Instrument Run Logs 318

Sample Summary

C. A. Rich Consultants

Job No: JB29729

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB29729-1	02/22/13	15:15	TB	02/26/13	AIR	Soil Vapor Comp.	SSG-5 2/22/13
JB29729-2	02/22/13	15:15	TB	02/26/13	AIR	Indoor Air Comp.	IAG-5 2/22/13
JB29729-3	02/22/13	15:25	TB	02/26/13	AIR	Soil Vapor Comp.	SSB-12 2/22/13
JB29729-4	02/22/13	15:25	TB	02/26/13	AIR	Indoor Air Comp.	IAB-12 2/22/13
JB29729-5	02/22/13	15:55	TB	02/26/13	AIR	Soil Vapor Comp.	SS BASEMENT 2/22/13
JB29729-6	02/22/13	15:35	TB	02/26/13	AIR	Indoor Air Comp.	IA BASEMENT 2/22/13
JB29729-7	02/22/13	15:40	TB	02/26/13	AIR	Ambient Air Comp.	AA-1 2/22/13
JB29729-8	02/22/13	15:35	TB	02/26/13	AIR	Soil Vapor Comp.	SS-XX

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB29729
Site:	Elks Plaza, Freeport, NY	**Report Date**	3/12/2013 10:02:33 A

On 02/26/2013, 8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB29729 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** V2W1574

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29675-5DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** V3W1260

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB30025-6DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Trichlorofluoromethane are outside control limits for sample JB30025-6DUP. High RPD due to low concentration of hit

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB29729
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 02/22/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB29729-1	**SSG-5 2/22/13**					
Acetone		5.7	0.80	0.28	ppbv	TO-15
Benzene		1.2	0.80	0.11	ppbv	TO-15
Cyclohexane		1.2	0.80	0.20	ppbv	TO-15
Dichlorodifluoromethane		0.53 J	0.80	0.095	ppbv	TO-15
Ethanol		6.1	2.0	0.68	ppbv	TO-15
Ethylbenzene		1.2	0.80	0.12	ppbv	TO-15
Ethyl Acetate		0.58 J	0.80	0.51	ppbv	TO-15
4-Ethyltoluene		0.46 J	0.80	0.11	ppbv	TO-15
Hexane		0.47 J	0.80	0.20	ppbv	TO-15
Isopropyl Alcohol		0.65 J	0.80	0.26	ppbv	TO-15
Methyl ethyl ketone		1.2	0.80	0.17	ppbv	TO-15
1,2,4-Trimethylbenzene		1.3	0.80	0.12	ppbv	TO-15
1,3,5-Trimethylbenzene		0.39 J	0.80	0.18	ppbv	TO-15
Tetrachloroethylene		0.33	0.16	0.097	ppbv	TO-15
Toluene		3.8	0.80	0.13	ppbv	TO-15
Trichloroethylene		0.37	0.16	0.14	ppbv	TO-15
m,p-Xylene		4.3	0.80	0.23	ppbv	TO-15
o-Xylene		1.4	0.80	0.15	ppbv	TO-15
Xylenes (total)		5.7	0.80	0.15	ppbv	TO-15
Acetone		14	1.9	0.67	ug/m3	TO-15
Benzene		3.8	2.6	0.35	ug/m3	TO-15
Cyclohexane		4.1	2.8	0.69	ug/m3	TO-15
Dichlorodifluoromethane		2.6 J	4.0	0.47	ug/m3	TO-15
Ethanol		11	3.8	1.3	ug/m3	TO-15
Ethylbenzene		5.2	3.5	0.52	ug/m3	TO-15
Ethyl Acetate		2.1 J	2.9	1.8	ug/m3	TO-15
4-Ethyltoluene		2.3 J	3.9	0.54	ug/m3	TO-15
Hexane		1.7 J	2.8	0.70	ug/m3	TO-15
Isopropyl Alcohol		1.6 J	2.0	0.64	ug/m3	TO-15
Methyl ethyl ketone		3.5	2.4	0.50	ug/m3	TO-15
1,2,4-Trimethylbenzene		6.4	3.9	0.59	ug/m3	TO-15
1,3,5-Trimethylbenzene		1.9 J	3.9	0.88	ug/m3	TO-15
Tetrachloroethylene		2.2	1.1	0.66	ug/m3	TO-15
Toluene		14	3.0	0.49	ug/m3	TO-15
Trichloroethylene		2.0	0.86	0.75	ug/m3	TO-15
m,p-Xylene		19	3.5	1.0	ug/m3	TO-15
o-Xylene		6.1	3.5	0.65	ug/m3	TO-15
Xylenes (total)		25	3.5	0.65	ug/m3	TO-15
JB29729-2	**IAG-5 2/22/13**					
Acetone		4.5	0.20	0.069	ppbv	TO-15
Benzene		0.37	0.20	0.029	ppbv	TO-15

Summary of Hits

Job Number: JB29729
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 02/22/13

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Chloromethane	0.52	0.20	0.055	ppbv	TO-15
Dichlorodifluoromethane	0.51	0.20	0.024	ppbv	TO-15
Ethanol	34.4	0.50	0.17	ppbv	TO-15
Ethyl Acetate	1.2	0.20	0.13	ppbv	TO-15
Heptane	0.17 J	0.20	0.028	ppbv	TO-15
Hexane	0.21	0.20	0.050	ppbv	TO-15
Isopropyl Alcohol	11.6	0.20	0.065	ppbv	TO-15
Methylene chloride	0.37	0.20	0.055	ppbv	TO-15
Methyl ethyl ketone	0.21	0.20	0.042	ppbv	TO-15
2,2,4-Trimethylpentane	0.14 J	0.20	0.031	ppbv	TO-15
Tetrahydrofuran	0.21	0.20	0.074	ppbv	TO-15
Toluene	0.30	0.20	0.032	ppbv	TO-15
Trichlorofluoromethane	0.27	0.20	0.028	ppbv	TO-15
m,p-Xylene	0.13 J	0.20	0.058	ppbv	TO-15
Xylenes (total)	0.13 J	0.20	0.037	ppbv	TO-15
Acetone	11	0.48	0.16	ug/m3	TO-15
Benzene	1.2	0.64	0.093	ug/m3	TO-15
Chloromethane	1.1	0.41	0.11	ug/m3	TO-15
Dichlorodifluoromethane	2.5	0.99	0.12	ug/m3	TO-15
Ethanol	64.8	0.94	0.32	ug/m3	TO-15
Ethyl Acetate	4.3	0.72	0.47	ug/m3	TO-15
Heptane	0.70 J	0.82	0.11	ug/m3	TO-15
Hexane	0.74	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	28.5	0.49	0.16	ug/m3	TO-15
Methylene chloride	1.3	0.69	0.19	ug/m3	TO-15
Methyl ethyl ketone	0.62	0.59	0.12	ug/m3	TO-15
2,2,4-Trimethylpentane	0.65 J	0.93	0.14	ug/m3	TO-15
Tetrahydrofuran	0.62	0.59	0.22	ug/m3	TO-15
Toluene	1.1	0.75	0.12	ug/m3	TO-15
Trichlorofluoromethane	1.5	1.1	0.16	ug/m3	TO-15
m,p-Xylene	0.56 J	0.87	0.25	ug/m3	TO-15
Xylenes (total)	0.56 J	0.87	0.16	ug/m3	TO-15
JB29729-3 SSB-12 2/22/13					
Acetone	6.0	0.80	0.28	ppbv	TO-15
1,3-Butadiene	1.2	0.80	0.11	ppbv	TO-15
Benzene	4.1	0.80	0.11	ppbv	TO-15
Dichlorodifluoromethane	0.58 J	0.80	0.095	ppbv	TO-15
Ethanol	9.8	2.0	0.68	ppbv	TO-15
Ethylbenzene	0.99	0.80	0.12	ppbv	TO-15
Ethyl Acetate	1.2	0.80	0.51	ppbv	TO-15
Heptane	1.2	0.80	0.11	ppbv	TO-15
Hexane	1.1	0.80	0.20	ppbv	TO-15
Isopropyl Alcohol	0.74 J	0.80	0.26	ppbv	TO-15

Summary of Hits

Job Number: JB29729
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 02/22/13

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Methylene chloride	0.82	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	1.4	0.80	0.17	ppbv	TO-15
Propylene	7.5	2.0	0.14	ppbv	TO-15
1,2,4-Trimethylbenzene	0.82	0.80	0.12	ppbv	TO-15
Tetrachloroethylene	1.5	0.16	0.097	ppbv	TO-15
Tetrahydrofuran	1.4	0.80	0.30	ppbv	TO-15
Toluene	4.0	0.80	0.13	ppbv	TO-15
m,p-Xylene	3.2	0.80	0.23	ppbv	TO-15
o-Xylene	1.0	0.80	0.15	ppbv	TO-15
Xylenes (total)	4.3	0.80	0.15	ppbv	TO-15
Acetone	14	1.9	0.67	ug/m3	TO-15
1,3-Butadiene	2.7	1.8	0.24	ug/m3	TO-15
Benzene	13	2.6	0.35	ug/m3	TO-15
Dichlorodifluoromethane	2.9 J	4.0	0.47	ug/m3	TO-15
Ethanol	18	3.8	1.3	ug/m3	TO-15
Ethylbenzene	4.3	3.5	0.52	ug/m3	TO-15
Ethyl Acetate	4.3	2.9	1.8	ug/m3	TO-15
Heptane	4.9	3.3	0.45	ug/m3	TO-15
Hexane	3.9	2.8	0.70	ug/m3	TO-15
Isopropyl Alcohol	1.8 J	2.0	0.64	ug/m3	TO-15
Methylene chloride	2.8	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone	4.1	2.4	0.50	ug/m3	TO-15
Propylene	13	3.4	0.24	ug/m3	TO-15
1,2,4-Trimethylbenzene	4.0	3.9	0.59	ug/m3	TO-15
Tetrachloroethylene	10	1.1	0.66	ug/m3	TO-15
Tetrahydrofuran	4.1	2.4	0.88	ug/m3	TO-15
Toluene	15	3.0	0.49	ug/m3	TO-15
m,p-Xylene	14	3.5	1.0	ug/m3	TO-15
o-Xylene	4.3	3.5	0.65	ug/m3	TO-15
Xylenes (total)	19	3.5	0.65	ug/m3	TO-15
JB29729-4 IAB-12 2/22/13					
Acetone	8.0	0.20	0.069	ppbv	TO-15
Benzene	0.38	0.20	0.029	ppbv	TO-15
Chloroform	0.15 J	0.20	0.026	ppbv	TO-15
Chloromethane	0.89	0.20	0.055	ppbv	TO-15
Dichlorodifluoromethane	0.51	0.20	0.024	ppbv	TO-15
Ethanol	24.9	0.50	0.17	ppbv	TO-15
Ethyl Acetate	0.82	0.20	0.13	ppbv	TO-15
Heptane	0.16 J	0.20	0.028	ppbv	TO-15
Hexane	0.14 J	0.20	0.050	ppbv	TO-15
Isopropyl Alcohol	8.8	0.20	0.065	ppbv	TO-15
Methylene chloride	0.30	0.20	0.055	ppbv	TO-15
Methyl ethyl ketone	0.52	0.20	0.042	ppbv	TO-15

Summary of Hits

Job Number: JB29729
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 02/22/13

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
1,2,4-Trimethylbenzene	0.28	0.20	0.029	ppbv	TO-15
1,3,5-Trimethylbenzene	0.14 J	0.20	0.044	ppbv	TO-15
2,2,4-Trimethylpentane	0.13 J	0.20	0.031	ppbv	TO-15
Tetrachloroethylene	0.040	0.040	0.024	ppbv	TO-15
Toluene	0.29	0.20	0.032	ppbv	TO-15
Trichlorofluoromethane	0.28	0.20	0.028	ppbv	TO-15
Vinyl Acetate	0.63	0.20	0.054	ppbv	TO-15
m,p-Xylene	0.15 J	0.20	0.058	ppbv	TO-15
Xylenes (total)	0.15 J	0.20	0.037	ppbv	TO-15
Acetone	19	0.48	0.16	ug/m3	TO-15
Benzene	1.2	0.64	0.093	ug/m3	TO-15
Chloroform	0.73 J	0.98	0.13	ug/m3	TO-15
Chloromethane	1.8	0.41	0.11	ug/m3	TO-15
Dichlorodifluoromethane	2.5	0.99	0.12	ug/m3	TO-15
Ethanol	46.9	0.94	0.32	ug/m3	TO-15
Ethyl Acetate	3.0	0.72	0.47	ug/m3	TO-15
Heptane	0.66 J	0.82	0.11	ug/m3	TO-15
Hexane	0.49 J	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	22	0.49	0.16	ug/m3	TO-15
Methylene chloride	1.0	0.69	0.19	ug/m3	TO-15
Methyl ethyl ketone	1.5	0.59	0.12	ug/m3	TO-15
1,2,4-Trimethylbenzene	1.4	0.98	0.14	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.69 J	0.98	0.22	ug/m3	TO-15
2,2,4-Trimethylpentane	0.61 J	0.93	0.14	ug/m3	TO-15
Tetrachloroethylene	0.27	0.27	0.16	ug/m3	TO-15
Toluene	1.1	0.75	0.12	ug/m3	TO-15
Trichlorofluoromethane	1.6	1.1	0.16	ug/m3	TO-15
Vinyl Acetate	2.2	0.70	0.19	ug/m3	TO-15
m,p-Xylene	0.65 J	0.87	0.25	ug/m3	TO-15
Xylenes (total)	0.65 J	0.87	0.16	ug/m3	TO-15
JB29729-5 SS BASEMENT 2/22/13					
Acetone	7.1	0.80	0.28	ppbv	TO-15
Benzene	1.4	0.80	0.11	ppbv	TO-15
Dichlorodifluoromethane	0.63 J	0.80	0.095	ppbv	TO-15
Ethanol	14.1	2.0	0.68	ppbv	TO-15
Ethylbenzene	1.6	0.80	0.12	ppbv	TO-15
Ethyl Acetate	1.8	0.80	0.51	ppbv	TO-15
4-Ethyltoluene	0.51 J	0.80	0.11	ppbv	TO-15
Hexane	0.81	0.80	0.20	ppbv	TO-15
Isopropyl Alcohol	1.3	0.80	0.26	ppbv	TO-15
Methylene chloride	5.3	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	2.5	0.80	0.17	ppbv	TO-15
1,2,4-Trimethylbenzene	2.0	0.80	0.12	ppbv	TO-15

Summary of Hits

Job Number: JB29729
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 02/22/13

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene	0.53 J	0.80	0.18	ppbv	TO-15
Tetrachloroethylene	10.5	0.16	0.097	ppbv	TO-15
Tetrahydrofuran	2.5	0.80	0.30	ppbv	TO-15
Toluene	8.0	0.80	0.13	ppbv	TO-15
Trichlorofluoromethane	0.54 J	0.80	0.11	ppbv	TO-15
m,p-Xylene	5.8	0.80	0.23	ppbv	TO-15
o-Xylene	1.8	0.80	0.15	ppbv	TO-15
Xylenes (total)	7.6	0.80	0.15	ppbv	TO-15
Acetone	17	1.9	0.67	ug/m3	TO-15
Benzene	4.5	2.6	0.35	ug/m3	TO-15
Dichlorodifluoromethane	3.1 J	4.0	0.47	ug/m3	TO-15
Ethanol	26.6	3.8	1.3	ug/m3	TO-15
Ethylbenzene	6.9	3.5	0.52	ug/m3	TO-15
Ethyl Acetate	6.5	2.9	1.8	ug/m3	TO-15
4-Ethyltoluene	2.5 J	3.9	0.54	ug/m3	TO-15
Hexane	2.9	2.8	0.70	ug/m3	TO-15
Isopropyl Alcohol	3.2	2.0	0.64	ug/m3	TO-15
Methylene chloride	18	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone	7.4	2.4	0.50	ug/m3	TO-15
1,2,4-Trimethylbenzene	9.8	3.9	0.59	ug/m3	TO-15
1,3,5-Trimethylbenzene	2.6 J	3.9	0.88	ug/m3	TO-15
Tetrachloroethylene	71.2	1.1	0.66	ug/m3	TO-15
Tetrahydrofuran	7.4	2.4	0.88	ug/m3	TO-15
Toluene	30	3.0	0.49	ug/m3	TO-15
Trichlorofluoromethane	3.0 J	4.5	0.62	ug/m3	TO-15
m,p-Xylene	25	3.5	1.0	ug/m3	TO-15
o-Xylene	7.8	3.5	0.65	ug/m3	TO-15
Xylenes (total)	33	3.5	0.65	ug/m3	TO-15
JB29729-6 IA BASEMENT 2/22/13					
Acetone	1.5	0.20	0.069	ppbv	TO-15
Benzene	0.32	0.20	0.029	ppbv	TO-15
Chloromethane	0.45	0.20	0.055	ppbv	TO-15
Dichlorodifluoromethane	0.50	0.20	0.024	ppbv	TO-15
Ethanol	3.1	0.50	0.17	ppbv	TO-15
Ethyl Acetate	1.1	0.20	0.13	ppbv	TO-15
Isopropyl Alcohol	0.49	0.20	0.065	ppbv	TO-15
Methylene chloride	0.39	0.20	0.055	ppbv	TO-15
Trichlorofluoromethane	0.27	0.20	0.028	ppbv	TO-15
Acetone	3.6	0.48	0.16	ug/m3	TO-15
Benzene	1.0	0.64	0.093	ug/m3	TO-15
Chloromethane	0.93	0.41	0.11	ug/m3	TO-15
Dichlorodifluoromethane	2.5	0.99	0.12	ug/m3	TO-15
Ethanol	5.8	0.94	0.32	ug/m3	TO-15

Summary of Hits

Job Number: JB29729
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 02/22/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Ethyl Acetate		4.0	0.72	0.47	ug/m3	TO-15
Isopropyl Alcohol		1.2	0.49	0.16	ug/m3	TO-15
Methylene chloride		1.4	0.69	0.19	ug/m3	TO-15
Trichlorofluoromethane		1.5	1.1	0.16	ug/m3	TO-15
JB29729-7	**AA-1 2/22/13**					
Acetone		3.2	0.20	0.069	ppbv	TO-15
Benzene		0.56	0.20	0.029	ppbv	TO-15
Chloromethane		0.72	0.20	0.055	ppbv	TO-15
Dichlorodifluoromethane		0.56	0.20	0.024	ppbv	TO-15
Ethanol		29.6	0.50	0.17	ppbv	TO-15
Ethyl Acetate		1.3	0.20	0.13	ppbv	TO-15
Hexane		0.14 J	0.20	0.050	ppbv	TO-15
Isopropyl Alcohol		0.43	0.20	0.065	ppbv	TO-15
Methylene chloride		0.22	0.20	0.055	ppbv	TO-15
Methyl ethyl ketone		3.4	0.20	0.042	ppbv	TO-15
Propylene		0.89	0.50	0.034	ppbv	TO-15
2,2,4-Trimethylpentane		0.15 J	0.20	0.031	ppbv	TO-15
Toluene		0.26	0.20	0.032	ppbv	TO-15
Trichlorofluoromethane		0.24	0.20	0.028	ppbv	TO-15
m,p-Xylene		0.11 J	0.20	0.058	ppbv	TO-15
Xylenes (total)		0.11 J	0.20	0.037	ppbv	TO-15
Acetone		7.6	0.48	0.16	ug/m3	TO-15
Benzene		1.8	0.64	0.093	ug/m3	TO-15
Chloromethane		1.5	0.41	0.11	ug/m3	TO-15
Dichlorodifluoromethane		2.8	0.99	0.12	ug/m3	TO-15
Ethanol		55.8	0.94	0.32	ug/m3	TO-15
Ethyl Acetate		4.7	0.72	0.47	ug/m3	TO-15
Hexane		0.49 J	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol		1.1	0.49	0.16	ug/m3	TO-15
Methylene chloride		0.76	0.69	0.19	ug/m3	TO-15
Methyl ethyl ketone		10	0.59	0.12	ug/m3	TO-15
Propylene		1.5	0.86	0.058	ug/m3	TO-15
2,2,4-Trimethylpentane		0.70 J	0.93	0.14	ug/m3	TO-15
Toluene		0.98	0.75	0.12	ug/m3	TO-15
Trichlorofluoromethane		1.3	1.1	0.16	ug/m3	TO-15
m,p-Xylene		0.48 J	0.87	0.25	ug/m3	TO-15
Xylenes (total)		0.48 J	0.87	0.16	ug/m3	TO-15
JB29729-8	**SS-XX**					
Acetone		6.9	0.80	0.28	ppbv	TO-15
Benzene		0.61 J	0.80	0.11	ppbv	TO-15
Dichlorodifluoromethane		0.52 J	0.80	0.095	ppbv	TO-15

Summary of Hits

Job Number: JB29729
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 02/22/13

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Ethanol	7.2	2.0	0.68	ppbv	TO-15
Ethylbenzene	1.2	0.80	0.12	ppbv	TO-15
Ethyl Acetate	2.7	0.80	0.51	ppbv	TO-15
Methylene chloride	0.89	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	1.5	0.80	0.17	ppbv	TO-15
1,2,4-Trimethylbenzene	1.3	0.80	0.12	ppbv	TO-15
1,3,5-Trimethylbenzene	0.40 J	0.80	0.18	ppbv	TO-15
Tetrachloroethylene	24.1	0.16	0.097	ppbv	TO-15
Tetrahydrofuran	1.2	0.80	0.30	ppbv	TO-15
Toluene	4.2	0.80	0.13	ppbv	TO-15
m,p-Xylene	4.1	0.80	0.23	ppbv	TO-15
o-Xylene	1.5	0.80	0.15	ppbv	TO-15
Xylenes (total)	5.6	0.80	0.15	ppbv	TO-15
Acetone	16	1.9	0.67	ug/m3	TO-15
Benzene	1.9 J	2.6	0.35	ug/m3	TO-15
Dichlorodifluoromethane	2.6 J	4.0	0.47	ug/m3	TO-15
Ethanol	14	3.8	1.3	ug/m3	TO-15
Ethylbenzene	5.2	3.5	0.52	ug/m3	TO-15
Ethyl Acetate	9.7	2.9	1.8	ug/m3	TO-15
Methylene chloride	3.1	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone	4.4	2.4	0.50	ug/m3	TO-15
1,2,4-Trimethylbenzene	6.4	3.9	0.59	ug/m3	TO-15
1,3,5-Trimethylbenzene	2.0 J	3.9	0.88	ug/m3	TO-15
Tetrachloroethylene	163	1.1	0.66	ug/m3	TO-15
Tetrahydrofuran	3.5	2.4	0.88	ug/m3	TO-15
Toluene	16	3.0	0.49	ug/m3	TO-15
m,p-Xylene	18	3.5	1.0	ug/m3	TO-15
o-Xylene	6.5	3.5	0.65	ug/m3	TO-15
Xylenes (total)	24	3.5	0.65	ug/m3	TO-15

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID:	SSG-5 2/22/13		
Lab Sample ID:	JB29729-1	**Date Sampled:**	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A455	**Date Received:**	02/26/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37601.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	5.7	0.80	0.28	ppbv		14	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	1.2	0.80	0.11	ppbv		3.8	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	1.2	0.80	0.20	ppbv		4.1	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.80	0.095	ppbv	J	2.6	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID: SSG-5 2/22/13
Lab Sample ID: JB29729-1
Matrix: AIR - Soil Vapor Comp. Summa ID: A455
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	6.1	2.0	0.68	ppbv		11	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.12	ppbv		5.2	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	0.58	0.80	0.51	ppbv	J	2.1	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.46	0.80	0.11	ppbv	J	2.3	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	0.47	0.80	0.20	ppbv	J	1.7	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.65	0.80	0.26	ppbv	J	1.6	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.2	0.80	0.17	ppbv		3.5	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	ND	2.0	0.14	ppbv		ND	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.38	ppbv		ND	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.3	0.80	0.12	ppbv		6.4	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.39	0.80	0.18	ppbv	J	1.9	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.33	0.16	0.097	ppbv		2.2	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.30	ppbv		ND	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	3.8	0.80	0.13	ppbv		14	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	0.37	0.16	0.14	ppbv		2.0	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	4.3	0.80	0.23	ppbv		19	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.4	0.80	0.15	ppbv		6.1	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	5.7	0.80	0.15	ppbv		25	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		65-128%

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

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID:	IAG-5 2/22/13		
Lab Sample ID:	JB29729-2	**Date Sampled:**	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A089	**Date Received:**	02/26/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37602.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	4.5	0.20	0.069	ppbv		11	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.37	0.20	0.029	ppbv		1.2	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.52	0.20	0.055	ppbv		1.1	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.024	ppbv		2.5	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Report of Analysis

Client Sample ID: IAG-5 2/22/13
Lab Sample ID: JB29729-2
Matrix: AIR - Indoor Air Comp. Summa ID: A089
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	34.4	0.50	0.17	ppbv		64.8	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	1.2	0.20	0.13	ppbv		4.3	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	0.17	0.20	0.028	ppbv	J	0.70	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.21	0.20	0.050	ppbv		0.74	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	11.6	0.20	0.065	ppbv		28.5	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.37	0.20	0.055	ppbv		1.3	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.21	0.20	0.042	ppbv		0.62	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.14	0.20	0.031	ppbv	J	0.65	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.21	0.20	0.074	ppbv		0.62	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.30	0.20	0.032	ppbv		1.1	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.028	ppbv		1.5	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.13	0.20	0.058	ppbv	J	0.56	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.13	0.20	0.037	ppbv	J	0.56	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		65-128%

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

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID:	SSB-12 2/22/13		
Lab Sample ID:	JB29729-3	**Date Sampled:**	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A646	**Date Received:**	02/26/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37603.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	6.0	0.80	0.28	ppbv		14	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	1.2	0.80	0.11	ppbv		2.7	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	4.1	0.80	0.11	ppbv		13	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.20	ppbv		ND	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.58	0.80	0.095	ppbv	J	2.9	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID: SSB-12 2/22/13
Lab Sample ID: JB29729-3
Matrix: AIR - Soil Vapor Comp. Summa ID: A646
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	9.8	2.0	0.68	ppbv		18	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	0.99	0.80	0.12	ppbv		4.3	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	1.2	0.80	0.51	ppbv		4.3	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.11	ppbv		ND	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	1.2	0.80	0.11	ppbv		4.9	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	1.1	0.80	0.20	ppbv		3.9	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.74	0.80	0.26	ppbv	J	1.8	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	0.82	0.80	0.22	ppbv		2.8	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.4	0.80	0.17	ppbv		4.1	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	7.5	2.0	0.14	ppbv		13	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.38	ppbv		ND	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.82	0.80	0.12	ppbv		4.0	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.18	ppbv		ND	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.5	0.16	0.097	ppbv		10	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.4	0.80	0.30	ppbv		4.1	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	4.0	0.80	0.13	ppbv		15	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.14	ppbv		ND	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	3.2	0.80	0.23	ppbv		14	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.0	0.80	0.15	ppbv		4.3	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	4.3	0.80	0.15	ppbv		19	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		65-128%

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

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID: IAB-12 2/22/13
Lab Sample ID: JB29729-4
Matrix: AIR - Indoor Air Comp. Summa ID: A074
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37604.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	8.0	0.20	0.069	ppbv		19	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.38	0.20	0.029	ppbv		1.2	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	0.15	0.20	0.026	ppbv	J	0.73	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.89	0.20	0.055	ppbv		1.8	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.024	ppbv		2.5	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Report of Analysis

Client Sample ID: IAB-12 2/22/13
Lab Sample ID: JB29729-4
Matrix: AIR - Indoor Air Comp. Summa ID: A074
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	24.9	0.50	0.17	ppbv		46.9	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	0.82	0.20	0.13	ppbv		3.0	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	0.16	0.20	0.028	ppbv	J	0.66	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.14	0.20	0.050	ppbv	J	0.49	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	8.8	0.20	0.065	ppbv		22	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.30	0.20	0.055	ppbv		1.0	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.52	0.20	0.042	ppbv		1.5	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.28	0.20	0.029	ppbv		1.4	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.14	0.20	0.044	ppbv	J	0.69	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.13	0.20	0.031	ppbv	J	0.61	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.040	0.040	0.024	ppbv		0.27	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.29	0.20	0.032	ppbv		1.1	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.28	0.20	0.028	ppbv		1.6	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	0.63	0.20	0.054	ppbv		2.2	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.15	0.20	0.058	ppbv	J	0.65	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.15	0.20	0.037	ppbv	J	0.65	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		65-128%

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

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID:	SS BASEMENT 2/22/13		
Lab Sample ID:	JB29729-5	**Date Sampled:**	02/22/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A861	**Date Received:**	02/26/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37605.D	1.7	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	170 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	7.1	0.80	0.28	ppbv		17	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	1.4	0.80	0.11	ppbv		4.5	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.20	ppbv		ND	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.63	0.80	0.095	ppbv	J	3.1	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID: SS BASEMENT 2/22/13
Lab Sample ID: JB29729-5
Matrix: AIR - Soil Vapor Comp. Summa ID: A861
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	14.1	2.0	0.68	ppbv		26.6	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	1.6	0.80	0.12	ppbv		6.9	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	1.8	0.80	0.51	ppbv		6.5	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.51	0.80	0.11	ppbv	J	2.5	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	0.81	0.80	0.20	ppbv		2.9	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.3	0.80	0.26	ppbv		3.2	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	5.3	0.80	0.22	ppbv		18	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.5	0.80	0.17	ppbv		7.4	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	ND	2.0	0.14	ppbv		ND	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.38	ppbv		ND	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.0	0.80	0.12	ppbv		9.8	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.53	0.80	0.18	ppbv	J	2.6	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	10.5	0.16	0.097	ppbv		71.2	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.5	0.80	0.30	ppbv		7.4	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	8.0	0.80	0.13	ppbv		30	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.14	ppbv		ND	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.54	0.80	0.11	ppbv	J	3.0	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	5.8	0.80	0.23	ppbv		25	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.8	0.80	0.15	ppbv		7.8	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	7.6	0.80	0.15	ppbv		33	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		65-128%

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

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID:	IA BASEMENT 2/22/13		
Lab Sample ID:	JB29729-6	**Date Sampled:**	02/22/13
Matrix:	AIR - Indoor Air Comp. Summa ID: A853	**Date Received:**	02/26/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W37606.D	1	03/01/13	YMH	n/a	n/a	V2W1574
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	1.5	0.20	0.069	ppbv		3.6	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.32	0.20	0.029	ppbv		1.0	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.45	0.20	0.055	ppbv		0.93	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.20	0.024	ppbv		2.5	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Report of Analysis

Client Sample ID: IA BASEMENT 2/22/13
Lab Sample ID: JB29729-6
Matrix: AIR - Indoor Air Comp. Summa ID: A853
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	3.1	0.50	0.17	ppbv		5.8	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.20	0.13	ppbv		4.0	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.028	ppbv		ND	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.050	ppbv		ND	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.49	0.20	0.065	ppbv		1.2	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.39	0.20	0.055	ppbv		1.4	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.031	ppbv		ND	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.032	ppbv		ND	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.028	ppbv		1.5	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.058	ppbv		ND	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	75%		65-128%

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

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID:	AA-1 2/22/13		
Lab Sample ID:	JB29729-7	**Date Sampled:**	02/22/13
Matrix:	AIR - Ambient Air Comp. Summa ID: A193	**Date Received:**	02/26/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W32510.D	1	03/02/13	YXC	n/a	n/a	V3W1260
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	3.2	0.20	0.069	ppbv		7.6	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.56	0.20	0.029	ppbv		1.8	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.72	0.20	0.055	ppbv		1.5	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.20	0.024	ppbv		2.8	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

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

Report of Analysis

Client Sample ID: AA-1 2/22/13
Lab Sample ID: JB29729-7
Matrix: AIR - Ambient Air Comp. Summa ID: A193
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	29.6	0.50	0.17	ppbv		55.8	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	1.3	0.20	0.13	ppbv		4.7	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.028	ppbv		ND	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.14	0.20	0.050	ppbv	J	0.49	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.43	0.20	0.065	ppbv		1.1	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.22	0.20	0.055	ppbv		0.76	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.4	0.20	0.042	ppbv		10	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	0.89	0.50	0.034	ppbv		1.5	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.15	0.20	0.031	ppbv	J	0.70	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.26	0.20	0.032	ppbv		0.98	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.028	ppbv		1.3	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.11	0.20	0.058	ppbv	J	0.48	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.037	ppbv		ND	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.11	0.20	0.037	ppbv	J	0.48	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		65-128%

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

Accutest LabLink@722399 15:28 02-Apr-2013

Report of Analysis

Client Sample ID: SS-XX
Lab Sample ID: JB29729-8
Matrix: AIR - Soil Vapor Comp. Summa ID: A259
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W32511.D	1	03/02/13	YXC	n/a	n/a	V3W1260
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	6.9	0.80	0.28	ppbv		16	1.9	0.67	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	0.61	0.80	0.11	ppbv	J	1.9	2.6	0.35	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.12	ppbv		ND	8.3	1.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	0.37	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.11	ppbv		ND	3.5	0.48	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.19	ppbv		ND	4.1	0.98	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	0.49	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.22	ppbv		ND	1.7	0.45	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	0.44	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	0.62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.078	ppbv		ND	5.0	0.49	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.20	ppbv		ND	2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.078	ppbv		ND	3.2	0.32	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.090	ppbv		ND	3.2	0.36	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.14	ppbv		ND	3.7	0.65	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.80	0.095	ppbv	J	2.6	4.0	0.47	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	1.2	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.13	ppbv		ND	3.6	0.59	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.24	ppbv		ND	4.8	1.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.096	ppbv		ND	3.6	0.44	ug/m3

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

Report of Analysis

Client Sample ID: SS-XX
Lab Sample ID: JB29729-8
Matrix: AIR - Soil Vapor Comp. Summa ID: A259
Method: TO-15
Project: Elks Plaza, Freeport, NY

Date Sampled: 02/22/13
Date Received: 02/26/13
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	7.2	2.0	0.68	ppbv		14	3.8	1.3	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.12	ppbv		5.2	3.5	0.52	ug/m3
141-78-6	88	Ethyl Acetate	2.7	0.80	0.51	ppbv		9.7	2.9	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.11	ppbv		ND	3.9	0.54	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.093	ppbv		ND	5.6	0.65	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.12	ppbv		ND	8.5	1.3	ug/m3
110-54-3	86.17	Hexane	ND	0.80	0.20	ppbv		ND	2.8	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.21	ppbv		ND	3.3	0.86	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.26	ppbv		ND	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	0.89	0.80	0.22	ppbv		3.1	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.5	0.80	0.17	ppbv		4.4	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.34	ppbv		ND	3.3	1.4	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
115-07-1	42	Propylene	ND	2.0	0.14	ppbv		ND	3.4	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.098	ppbv		ND	3.4	0.42	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	0.53	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.14	ppbv		ND	5.5	0.96	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.38	ppbv		ND	5.9	2.8	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.3	0.80	0.12	ppbv		6.4	3.9	0.59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.40	0.80	0.18	ppbv	J	2.0	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.12	ppbv		ND	3.7	0.56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.20	ppbv		ND	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	24.1	0.16	0.097	ppbv		163	1.1	0.66	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.2	0.80	0.30	ppbv		3.5	2.4	0.88	ug/m3
108-88-3	92.14	Toluene	4.2	0.80	0.13	ppbv		16	3.0	0.49	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.14	ppbv		ND	0.86	0.75	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.087	ppbv		ND	2.0	0.22	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	4.1	0.80	0.23	ppbv		18	3.5	1.0	ug/m3
95-47-6	106.2	o-Xylene	1.5	0.80	0.15	ppbv		6.5	3.5	0.65	ug/m3
1330-20-7	106.2	Xylenes (total)	5.6	0.80	0.15	ppbv		24	3.5	0.65	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AIR

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Air Sampling Field Data Sheet

FED-EX Tracking # 7948 2361 2234 | Bottle Order Control # MC-2/19/2013-7 | PAGE 1 OF 1

Lab Quote # | Lab Job # JB29729

Client / Reporting Information

Company Name: CA Rich

Address: 17 Dupont Street

City: Plainview | State: NY | Zip: 11803

Project Contact: Eric Weinstock | E-mail: eweinstock@carichinc.com

Phone #: (516) 576-4844 | Fax #:

Sampler(s) Name(s): Thomas Brown

Project Information

Project Name: Elks Plaza

Street: 157-189 West Merrick Road

City: Freeport | State: NY

Project #:

Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: | Maximum:
Stop | Minimum:

Atmoshpheric Pressure (inches of Hg)
Start: | Maximum:
Stop: | Minimum:

Other weather comment:

Requested Analysis

Standard TO-15 Reporting List

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Standard TO-15 Reporting List
-1	SS G-S 2/22/13	SV	A455	6L	FC138	2/22/13	0740	-30		TB	2/22/13	1515	6		TB	X
-2	IA G-S 2/22/13	I	A089	6L	FC498	2/22/13	0740	-30		TB	2/22/13	1515	7		TB	X
-3	SS B-12 2/22/13	SV	A0446	6L	FC494	2/22/13	0745	-30		TB	2/22/13	1525	8		TB	X
-4	IA B-12 2/22/13	I	A074	6L	FC505	2/22/13	0745	-30		TB	2/22/13	1525	7		TB	X
-5	SS Basement 2/22/13	SV	A861	6L	FC457	2/22/13	0750	-30		TB	2/22/13	1555	10		TB	X
-6	IA Basement 2/22/13	I	A853	6L	FC465	2/22/13	0751	-30		TB	2/22/13	1535	7		TB	X
-7	AA-1 2/22/13	A	A193	6L	FC456	2/22/13	0723	-30		TB	2/22/13	1540	7		TB	X
-8	SS-XX	SV	A259	6L	FC522	2/22/13	0751	-30		TB	2/22/13	1535	5		TB	X

Turnaround Time (Business days)

Standard - 15 Days: X
10 Day:
5 Day:
3 Day:
2 Day:
1 Day:
Other:

Approved By:

Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A:
Comm B:
Reduced T2:
Full T1:
Other: NY ASP Cat.B

Comments / Remarks

SUMMA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	2/22/13 1625	1	2	2/25/13	2 FEDEX
Relinquished by: 3 FEDEX	Date Time: 2/26/13 1030	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 728, 730 INTACT		

5.1 5

JB29729: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB29729 **Client:** **Project:**

Date / Time Received: 2/26/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Summa Canister and Flow Controller Log

Job Number: JB29729
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Received: 02/26/13

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A455	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-1	02/26/13	RC	5			1
A089	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-2	02/26/13	RC	6			1
A646	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-3	02/26/13	RC	6			1
A074	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-4	02/26/13	RC	6			1
A861	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-5	02/26/13	RC	11		1.1	1.7
A853	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-6	02/26/13	RC	6			1
A193	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-7	02/26/13	RC	2			1
A259	6	29.4	02/20/13	YMH	CP5973	3W32185.D	JB29729-8	02/26/13	RC	6			1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC138	02/20/13	YMH	10.2	8	02/26/13	RC	10.5
FC456	02/20/13	YMH	10.2	8	02/26/13	RC	10.4
FC457	02/20/13	YMH	10.2	8	02/26/13	RC	10.5
FC465	02/20/13	YMH	10.2	8	02/26/13	RC	10.6
FC494	02/20/13	YMH	10.2	8	02/26/13	RC	10.6
FC498	02/20/13	YMH	10.2	8	02/26/13	RC	10.4
FC505	02/20/13	YMH	10.2	8	02/26/13	RC	10.2
FC522	02/20/13	YMH	10.2	8	02/26/13	RC	10.2

Accutest Bottle Order(s):
MC-2/19/2013-7

Prep Date	Room Temp(F)	Bar Pres "Hg
02/20/13	70	29.92

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 03/12/13 01:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37601.D
Acq On : 1 Mar 2013 3:34 am
Operator : yunxiac
Sample : jb29729-1
Misc : MS43676,V2W1574,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 09:50:45 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

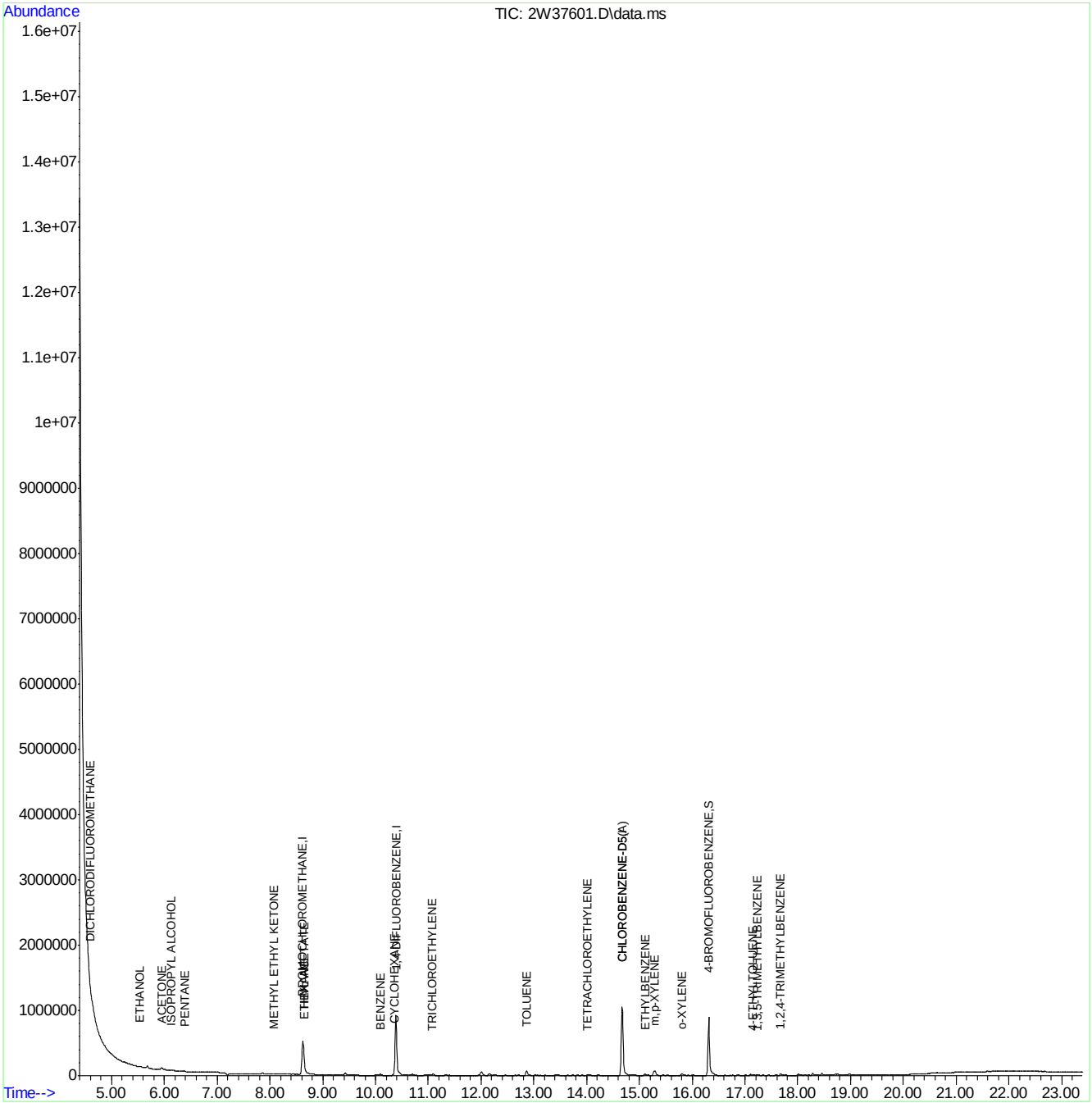
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.624	128	192850	10.00	PPBV	# 0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	895265	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	14.672	82	450559	10.00	PPBV	# 0.00
104) CHLOROBENZENE-D5(A)	14.672	82	450468	10.00	PPBV	# 0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	16.311	95	405935	8.84	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.40%			
Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	10522	0.13	PPBV	98
19) ISOPROPYL ALCOHOL	6.124	45	5947	0.16	PPBV #	39
20) ACETONE	5.954	58	13172	1.43	PPBV #	41
21) PENTANE	6.380	42	4177	0.17	PPBV	95
27) ETHANOL	5.527	45	11369	1.52	PPBV	79
37) HEXANE	8.642	57	4860	0.12	PPBV	89
40) METHYL ETHYL KETONE	8.075	72	2840	0.31	PPBV	97
42) ETHYL ACETATE	8.654	61	868	0.15	PPBV #	63
50) BENZENE	10.087	78	18892	0.31	PPBV	99
51) CYCLOHEXANE	10.355	84	11363	0.31	PPBV #	1
54) TRICHLOROETHYLENE	11.069	95	2989	0.09	PPBV	90
65) TOLUENE	12.861	92	39176	0.96	PPBV	98
71) TETRACHLOROETHYLENE	14.007	164	2757	0.08	PPBV	98
77) ETHYLBENZENE	15.104	91	22960	0.29	PPBV	94
78) m,p-XYLENE	15.281	106	31676	1.07	PPBV	99
79) o-XYLENE	15.805	106	10178	0.35	PPBV	96
89) 4-ETHYLTOLUENE	17.153	105	7354m	0.12	PPBV	
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	5874	0.10	PPBV	96
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	17049	0.32	PPBV #	35

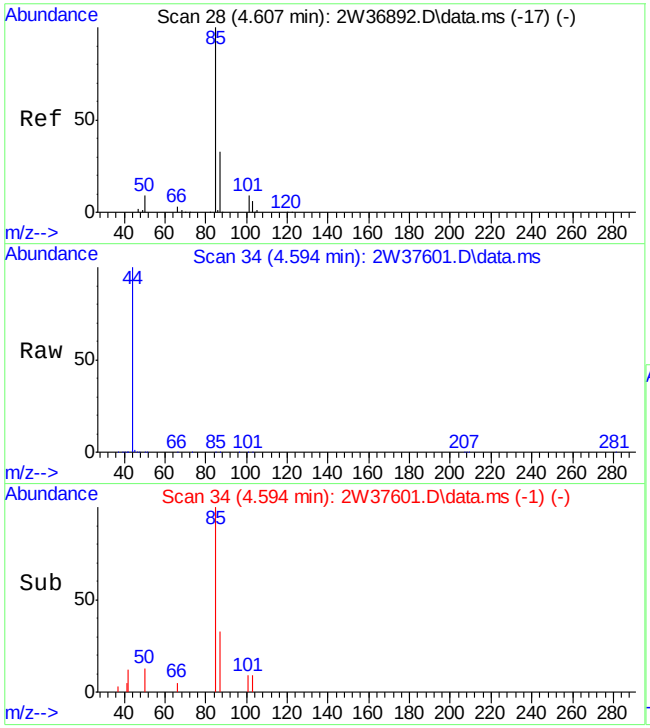
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37601.D
Acq On : 1 Mar 2013 3:34 am
Operator : yunxiac
Sample : jb29729-1
Misc : MS43676,V2W1574,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 09:50:45 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

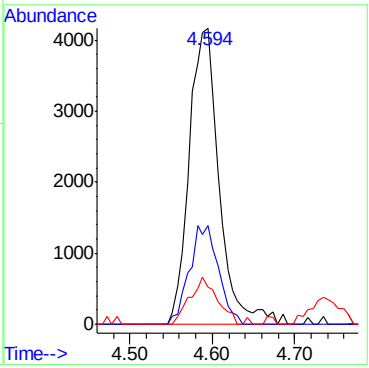


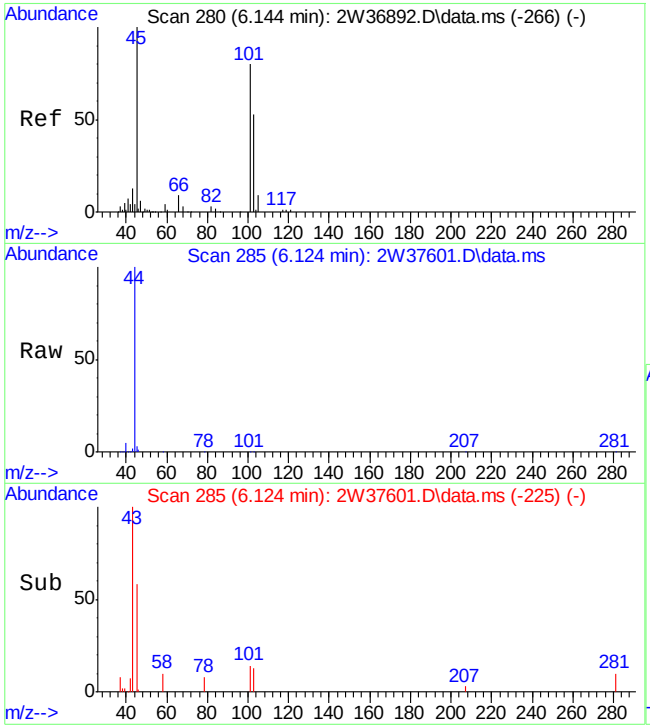


#3
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 4.594 min Scan# 34
Delta R.T. 0.000 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 85 Resp: 10522

Ion	Ratio	Lower	Upper
85	100		
87	32.3	12.2	52.2
50	14.5	0.0	31.0

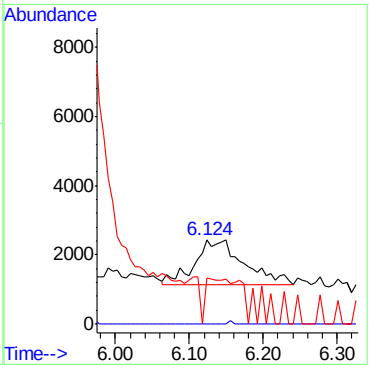


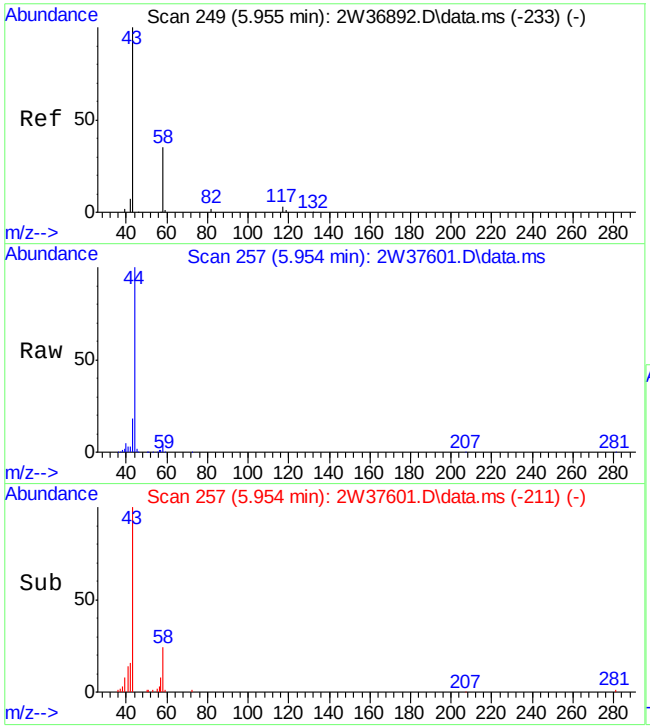


#19
ISOPROPYL ALCOHOL
Concen: 0.16 PPBV
RT: 6.124 min Scan# 285
Delta R.T. 0.018 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 45 Resp: 5947

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	24.3
43	54.4	1.0	41.0#

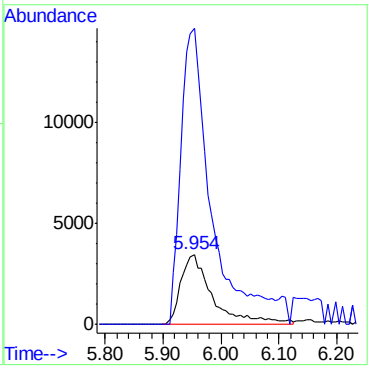


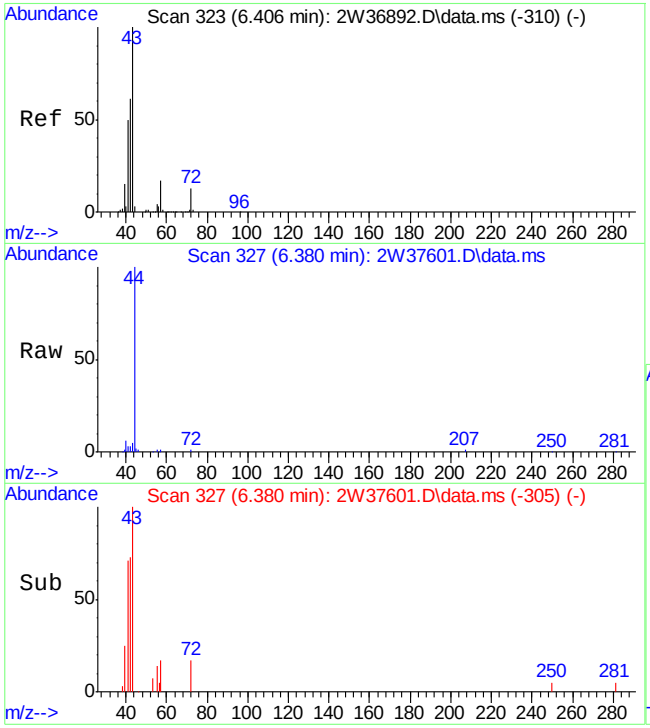


#20
ACETONE
Concen: 1.43 PPBV
RT: 5.954 min Scan# 257
Delta R.T. 0.031 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 58 Resp: 13172

Ion	Ratio	Lower	Upper
58	100		
43	404.8	270.5	310.5#

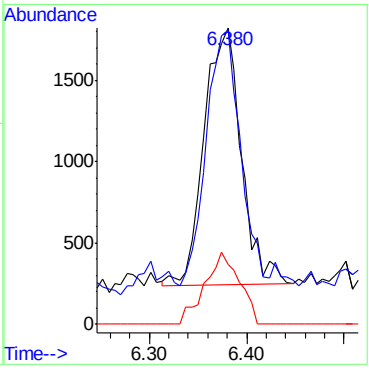


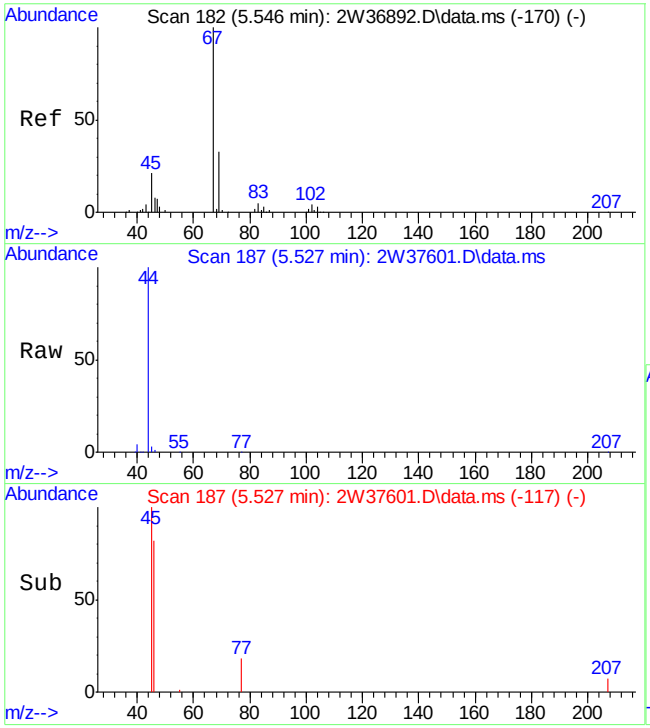


#21
PENTANE
Concen: 0.17 PPBV
RT: 6.380 min Scan# 327
Delta R.T. 0.012 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 42 Resp: 4177

Ion	Ratio	Lower	Upper
42	100		
41	94.3	68.9	108.9
57	25.9	7.1	47.1

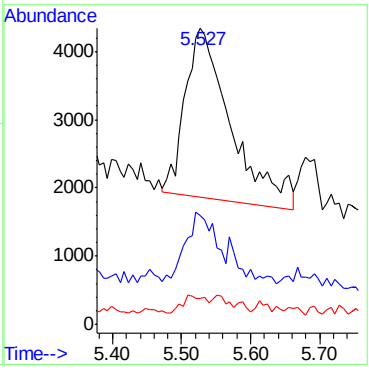


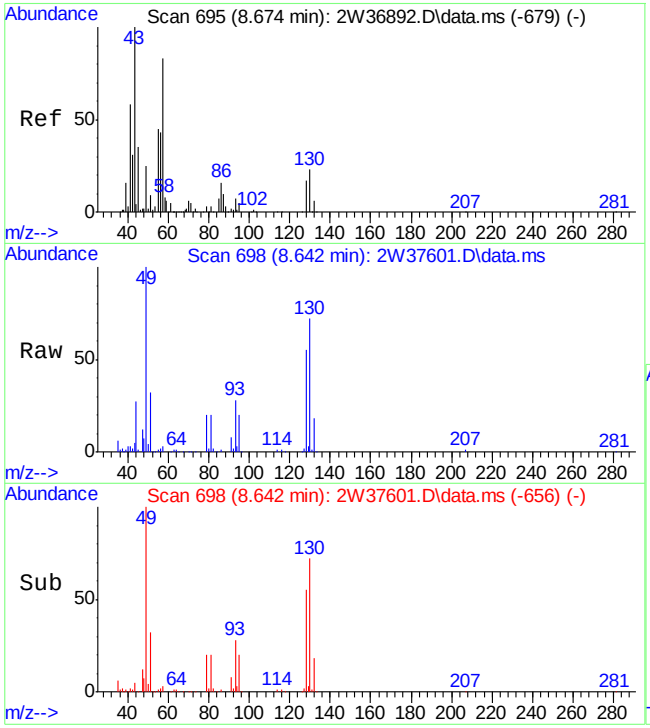


#27
ETHANOL
Concen: 1.52 PPBV
RT: 5.527 min Scan# 187
Delta R.T. 0.025 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 45 Resp: 11369

Ion	Ratio	Lower	Upper
45	100		
46	26.1	10.6	70.6
42	5.0	0.0	38.3

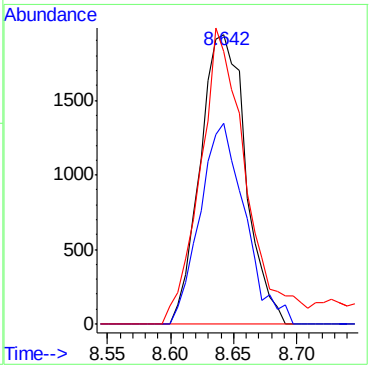


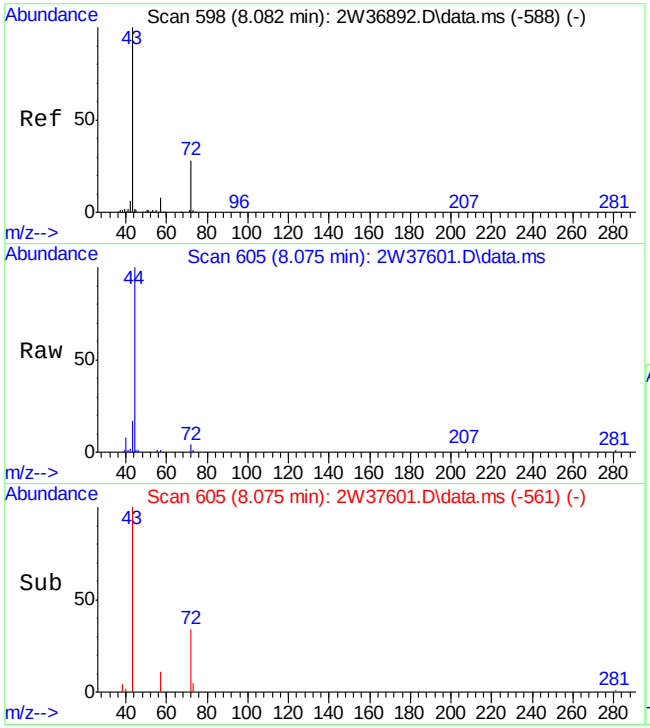


#37
HEXANE
Concen: 0.12 PPBV
RT: 8.642 min Scan# 698
Delta R.T. 0.006 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 57 Resp: 4860

Ion	Ratio	Lower	Upper
57	100		
56	68.7	33.9	73.9
41	103.5	77.9	117.9

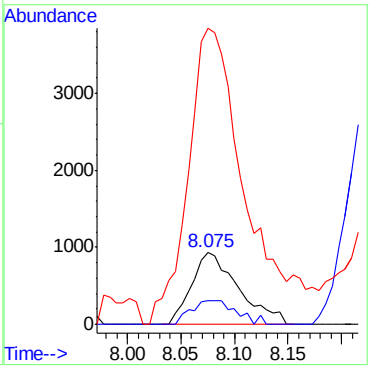


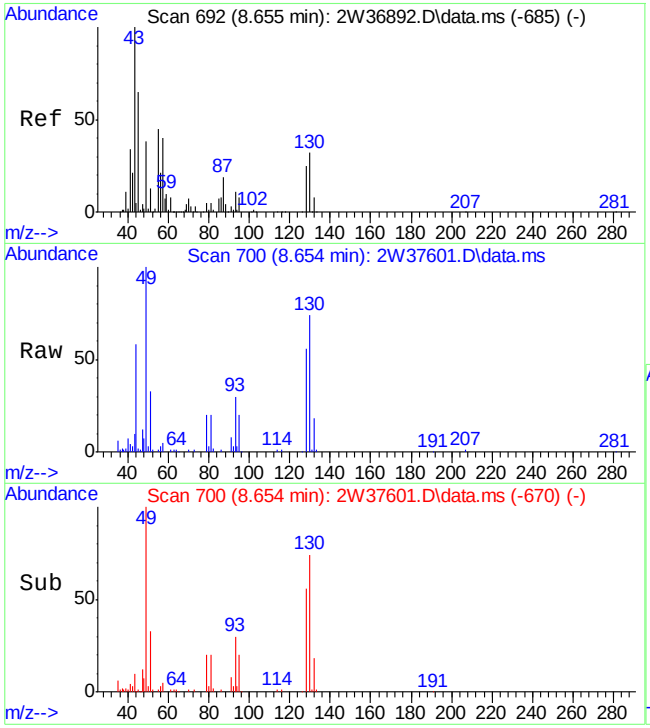


#40
METHYL ETHYL KETONE
Concen: 0.31 PPBV
RT: 8.075 min Scan# 605
Delta R.T. 0.024 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 72 Resp: 2840

Ion	Ratio	Lower	Upper
72	100		
57	33.0	14.2	54.2
43	408.8	395.6	435.6

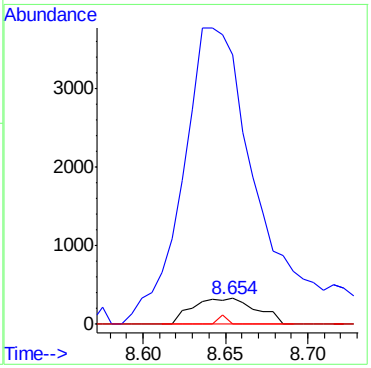


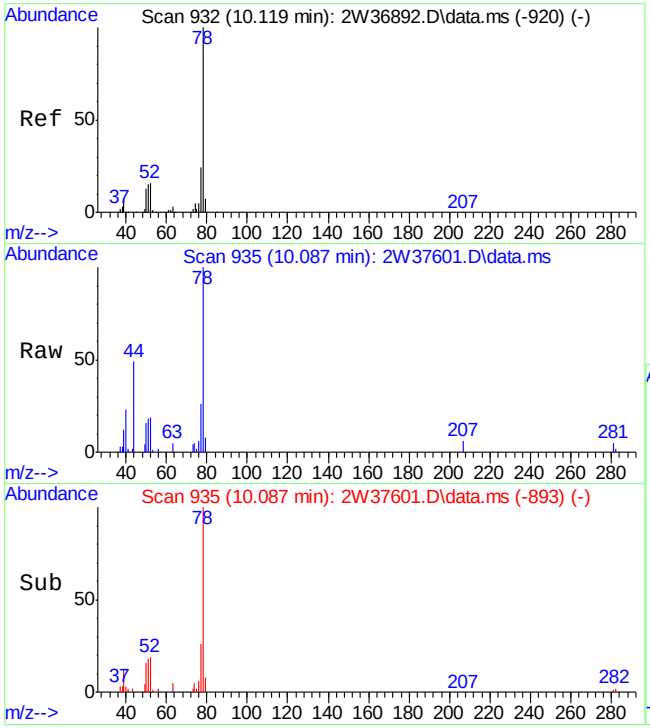


#42
ETHYL ACETATE
Concen: 0.15 PPBV
RT: 8.654 min Scan# 700
Delta R.T. 0.030 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 61 Resp: 868

Ion	Ratio	Lower	Upper
61	100		
43	1401.2	1612.5	1652.5#
88	4.7	19.8	59.8#

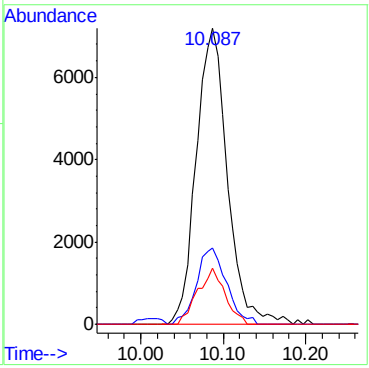


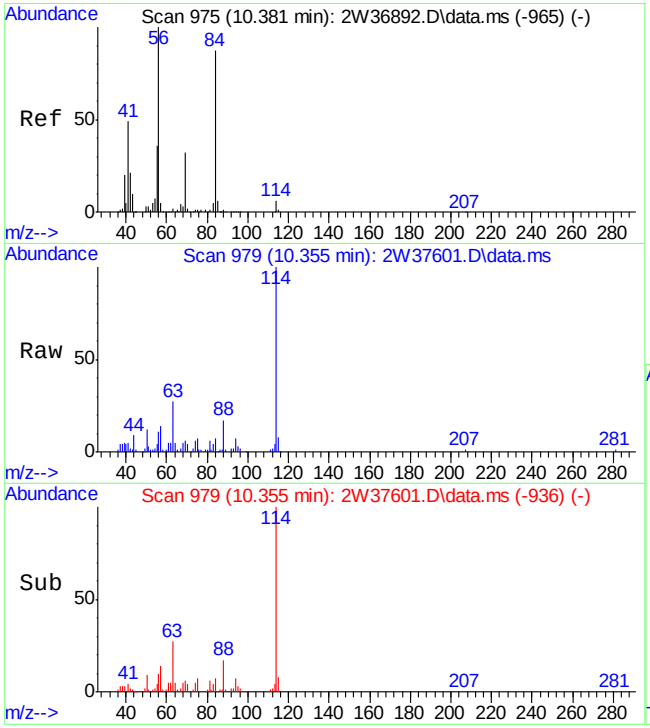


#50
BENZENE
Concen: 0.31 PPBV
RT: 10.087 min Scan# 935
Delta R.T. 0.006 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 78 Resp: 18892

Ion	Ratio	Lower	Upper
78	100		
77	24.8	4.3	44.3
52	16.6	0.0	37.1

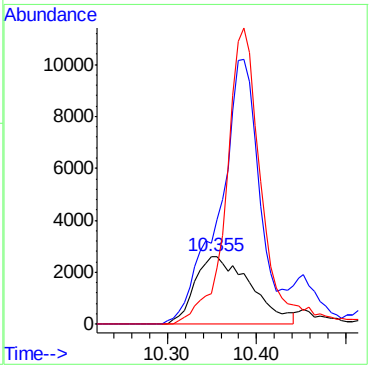


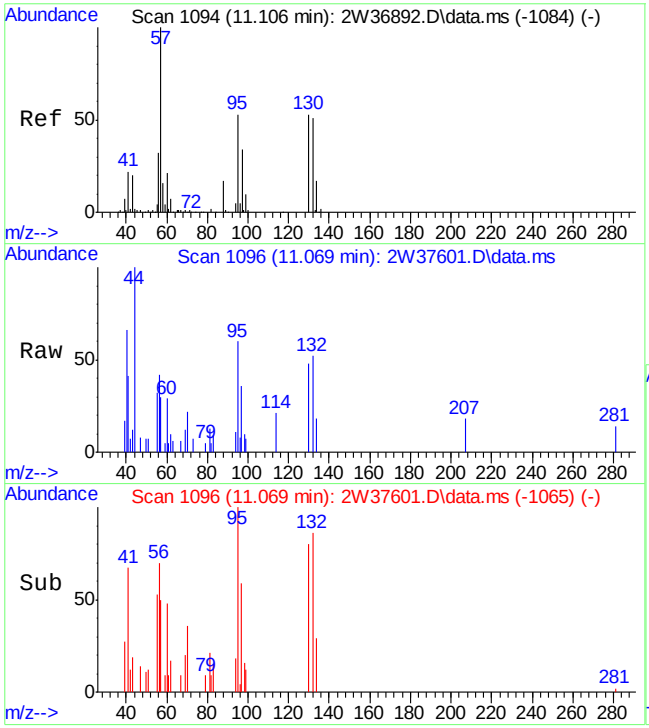


#51
CYCLOHEXANE
Concen: 0.31 PPBV
RT: 10.355 min Scan# 979
Delta R.T. 0.012 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 84 Resp: 11363

Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.4	148.4#
69	0.0	25.3	65.3#

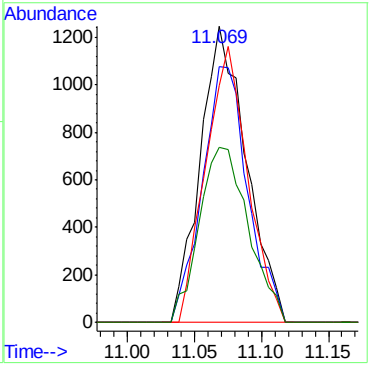


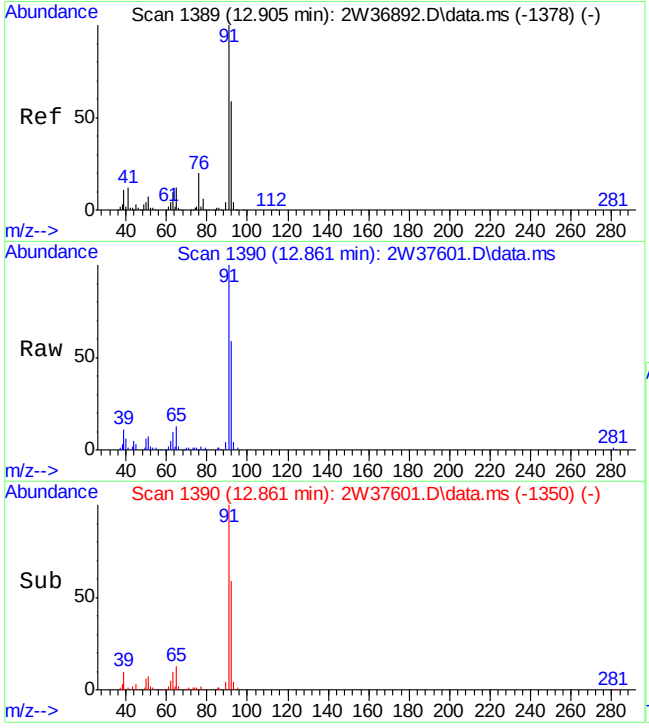


#54
TRICHLOROETHYLENE
Concen: 0.09 PPBV
RT: 11.069 min Scan# 1096
Delta R.T. 0.001 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 95 Resp: 2989

Ion	Ratio	Lower	Upper
95	100		
132	84.9	74.9	114.9
130	84.9	79.2	119.2
97	62.9	45.3	85.3

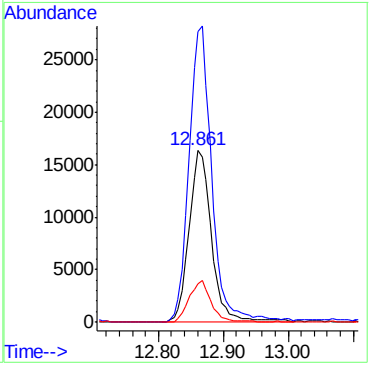


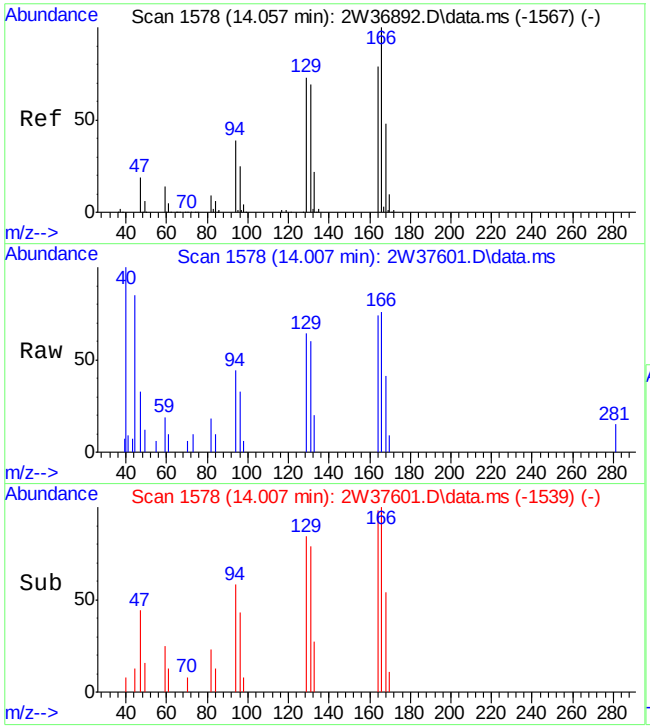


#65
TOLUENE
Concen: 0.96 PPBV
RT: 12.861 min Scan# 1390
Delta R.T. -0.006 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 92 Resp: 39176

Ion	Ratio	Lower	Upper
92	100		
91	175.0	151.3	191.3
65	23.6	3.8	43.8

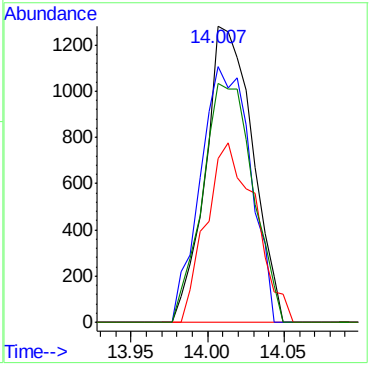


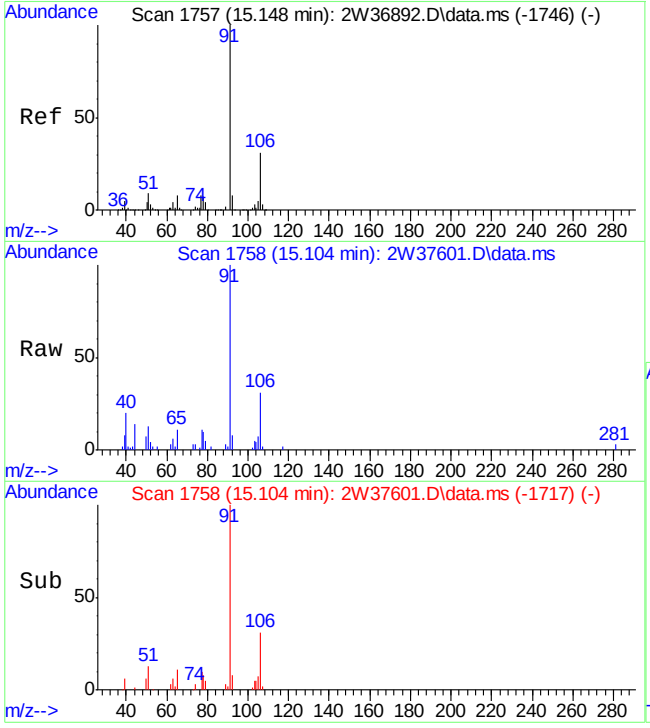


#71
TETRACHLOROETHYLENE
Concen: 0.08 PPBV
RT: 14.007 min Scan# 1578
Delta R.T. -0.012 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion:164 Resp: 2757

Ion	Ratio	Lower	Upper
164	100		
129	91.5	72.7	112.7
168	63.1	41.8	81.8
131	86.7	69.2	109.2

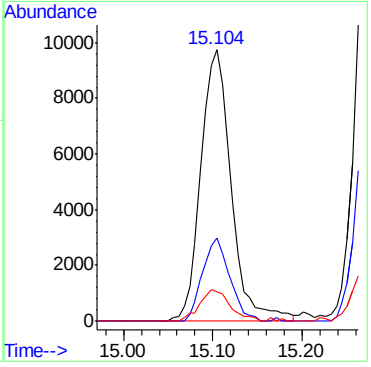


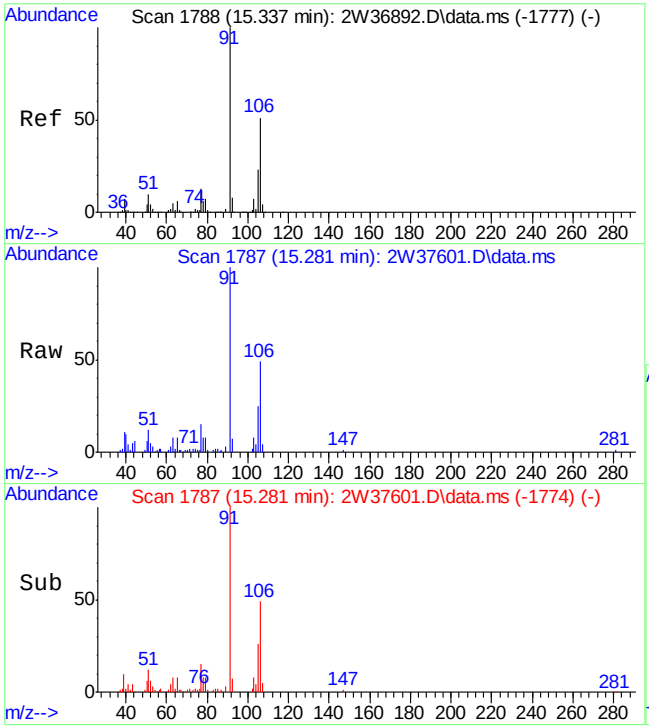


#77
ETHYLBENZENE
Concen: 0.29 PPBV
RT: 15.104 min Scan# 1758
Delta R.T. 0.000 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion: 91 Resp: 22960

Ion	Ratio	Lower	Upper
91	100		
106	27.1	10.4	50.4
77	11.4	0.0	28.9

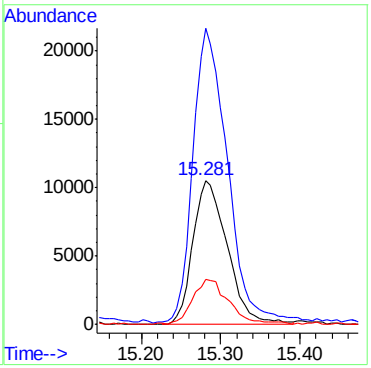


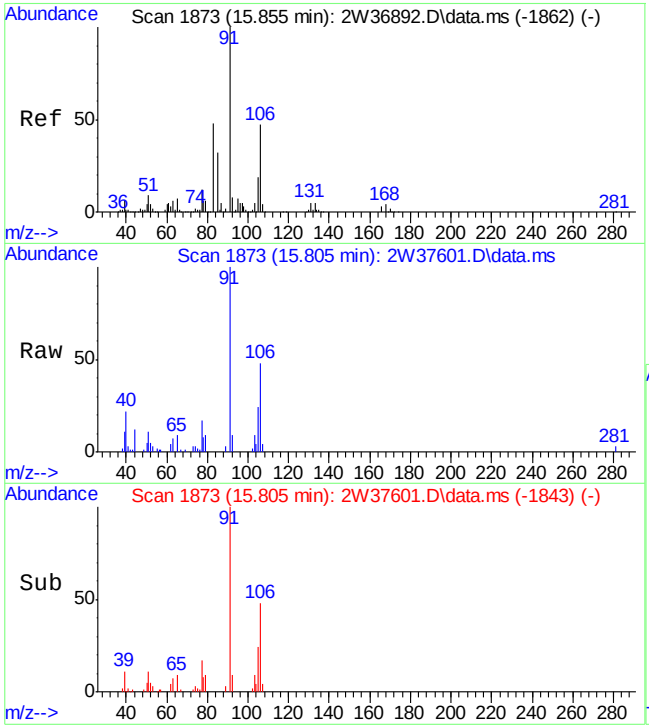


#78
m,p-XYLENE
Concen: 1.07 PPBV
RT: 15.281 min Scan# 1787
Delta R.T. -0.018 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion:106 Resp: 31676

Ion	Ratio	Lower	Upper
106	100		
91	205.9	164.8	247.2
77	31.1	22.3	33.5

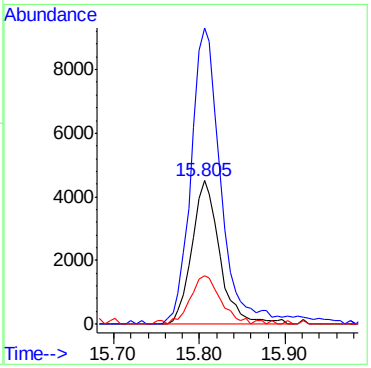


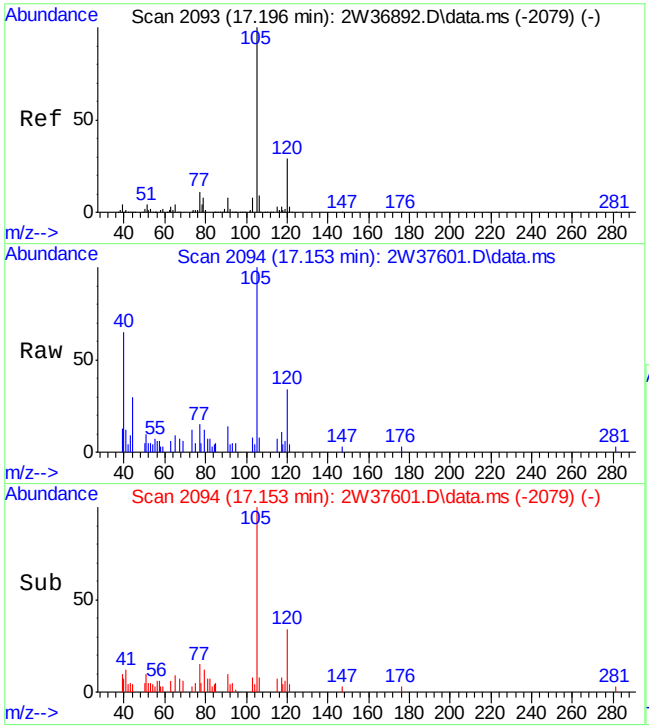


#79
o-XYLENE
Concen: 0.35 PPBV
RT: 15.805 min Scan# 1873
Delta R.T. -0.006 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion:106 Resp: 10178

Ion	Ratio	Lower	Upper
106	100		
91	225.4	201.0	241.0
77	37.0	8.1	48.1

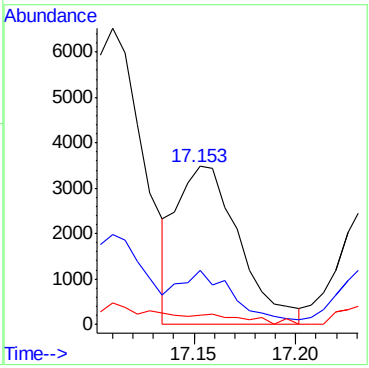


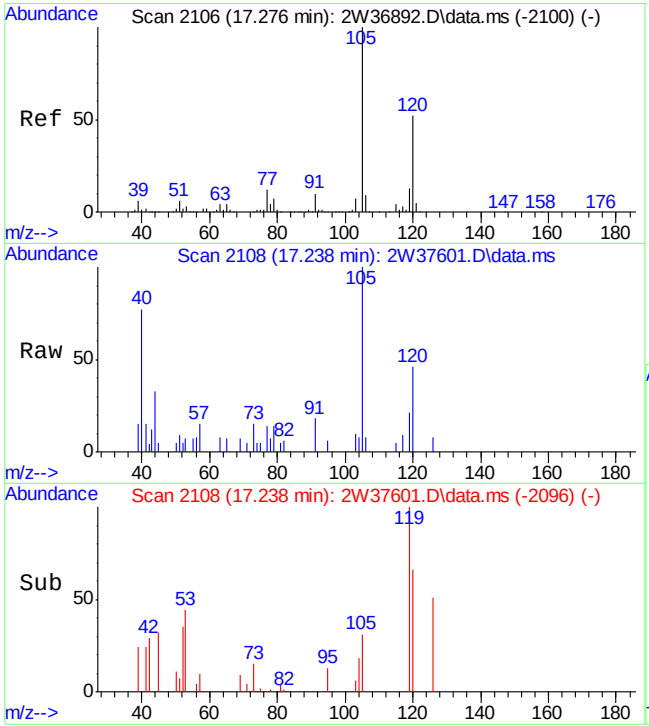


#89
4-ETHYLTOLUENE
Concen: 0.12 PPBV m
RT: 17.153 min Scan# 2094
Delta R.T. -0.006 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion:105 Resp: 7354

Ion	Ratio	Lower	Upper
105	100		
120	54.2	8.2	48.2#
119	19.1	0.0	22.3

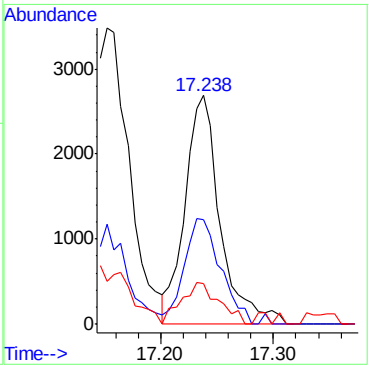


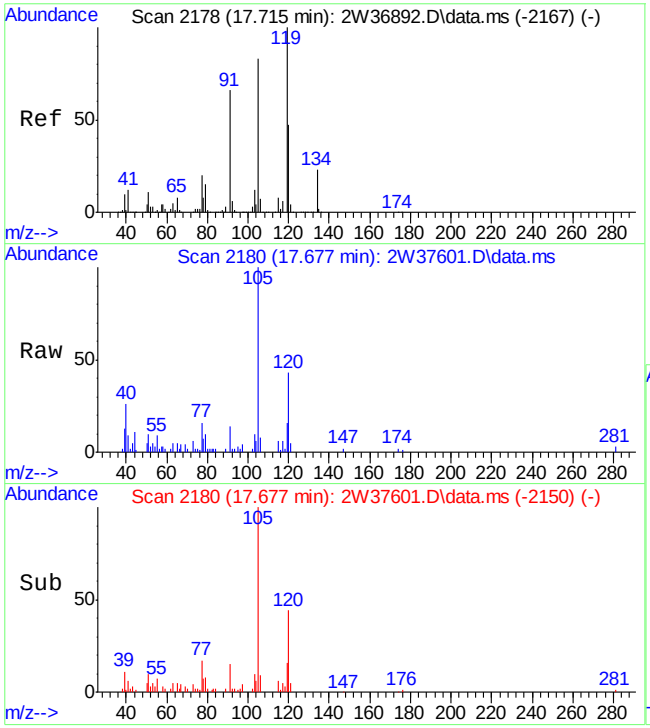


#90
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 17.238 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion:105 Resp: 5874

Ion	Ratio	Lower	Upper
105	100		
120	47.6	27.8	67.8
91	19.4	0.0	30.6

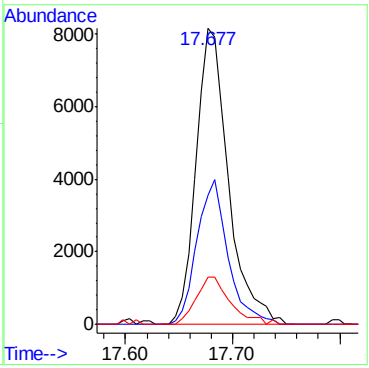




#93
1,2,4-TRIMETHYLBENZENE
Concen: 0.32 PPBV
RT: 17.677 min Scan# 2180
Delta R.T. -0.006 min
Lab File: 2W37601.D
Acq: 1 Mar 2013 3:34 am

Tgt Ion:105 Resp: 17049

Ion	Ratio	Lower	Upper
105	100		
120	46.8	34.7	74.7
119	16.9	95.9	135.9#



Manual Integration Approval Summary

Sample Number:	JB29729-1	**Method:**	TO-15
Lab FileID:	2W37601.D	**Analyst approved:**	03/01/13 10:27 Yunxia Chen
Injection Time:	03/01/13 03:34	**Supervisor approved:**	03/12/13 01:38 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Ethyltoluene	622-96-8		17.15	Missed peak

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37602.D
Acq On : 1 Mar 2013 4:16 am
Operator : yunxiac
Sample : jb29729-2
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 09:53:01 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

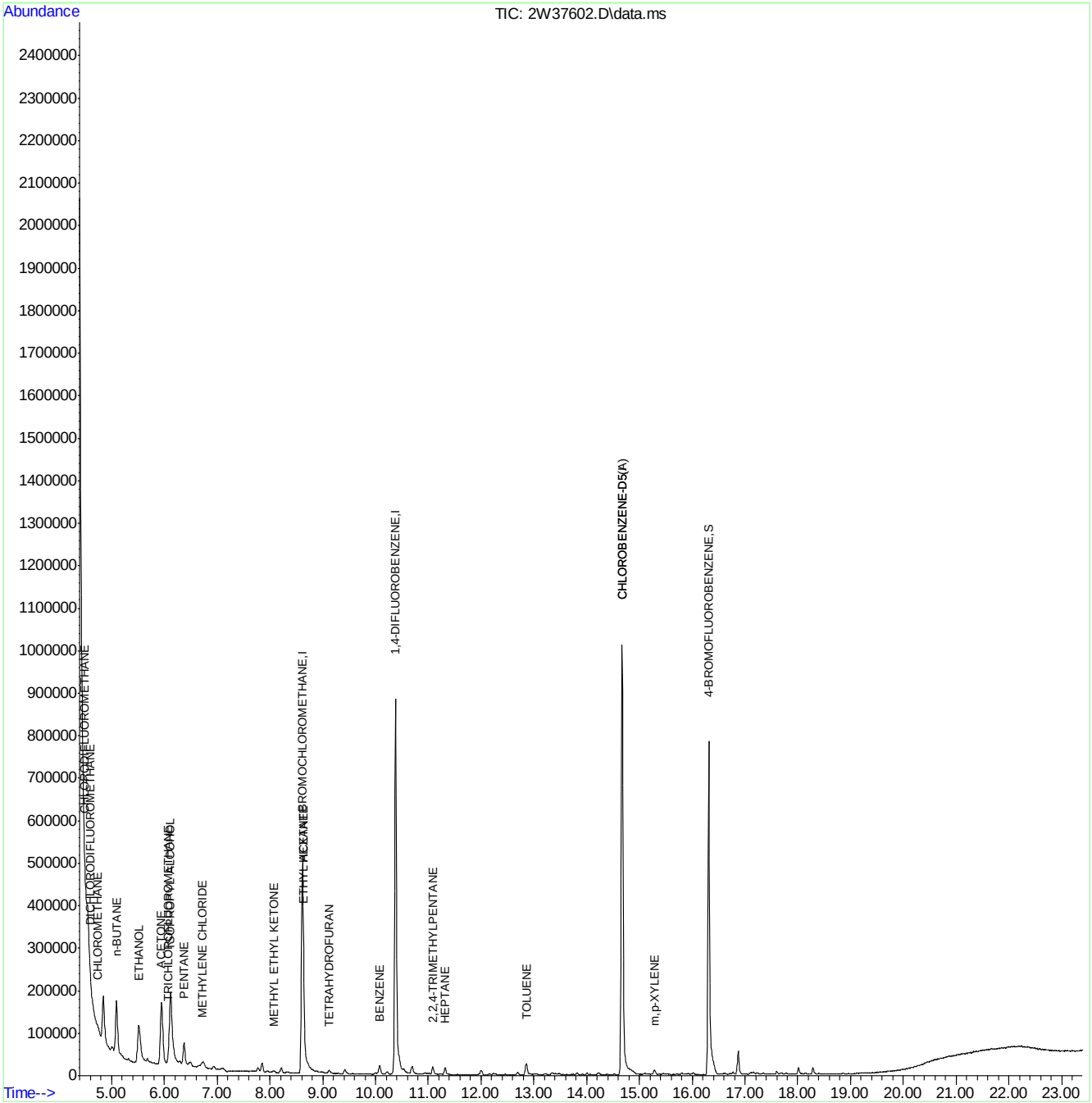
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	196116	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	880218	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	437296	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	437296	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	360021	8.08	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 80.80%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	41651	0.51	PPBV		99
5) CHLORODIFLUOROMETHANE	4.490	67	5315	0.63	PPBV		82
8) CHLOROMETHANE	4.734	52	4271	0.52	PPBV	#	81
11) n-BUTANE	5.094	43	172891	4.04	PPBV	#	97
18) TRICHLOROFLUOROMETHANE	6.082	101	18987	0.27	PPBV		98
19) ISOPROPYL ALCOHOL	6.112	45	427350	11.55	PPBV		92
20) ACETONE	5.935	58	41703	4.45	PPBV	#	10
21) PENTANE	6.368	42	27115	1.12	PPBV		97
27) ETHANOL	5.515	45	261872	34.44	PPBV		99
30) METHYLENE CHLORIDE	6.716	84	7790	0.37	PPBV		89
36) TETRAHYDROFURAN	9.130	72	1967	0.21	PPBV	#	80
37) HEXANE	8.630	57	8663	0.21	PPBV		88
40) METHYL ETHYL KETONE	8.069	72	2012	0.21	PPBV	#	90
42) ETHYL ACETATE	8.636	61	7216	1.19	PPBV	#	1
50) BENZENE	10.081	78	22660	0.37	PPBV		98
58) 2,2,4-TRIMETHYLPENTANE	11.081	57	16009	0.14	PPBV		81
61) HEPTANE	11.318	43	7251	0.17	PPBV		93
65) TOLUENE	12.861	92	11916	0.30	PPBV		94
78) m,p-XYLENE	15.281	106	3621	0.13	PPBV	#	81

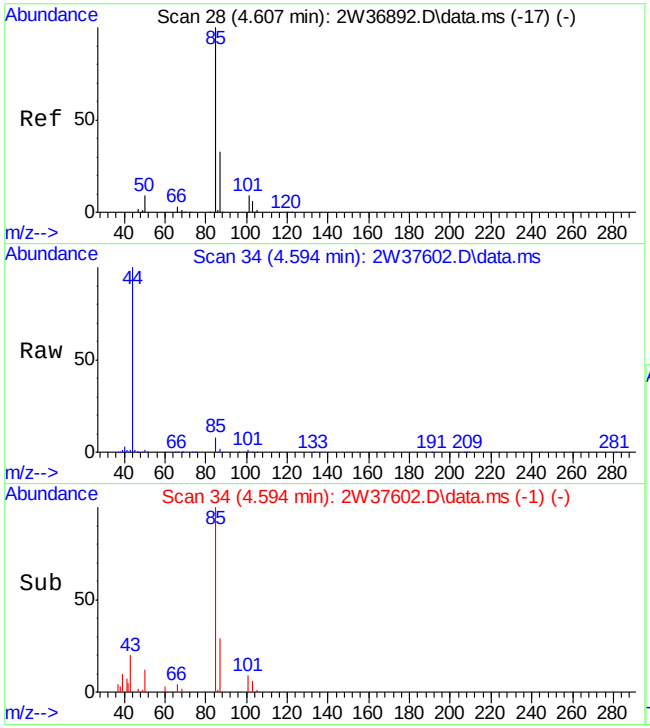
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37602.D
Acq On : 1 Mar 2013 4:16 am
Operator : yunxiac
Sample : jb29729-2
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 09:53:01 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

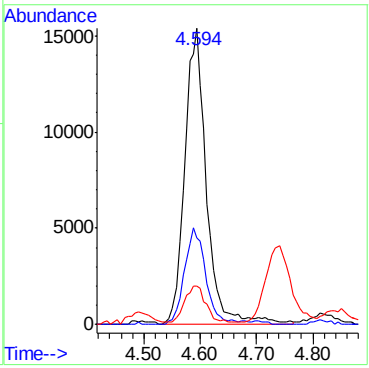


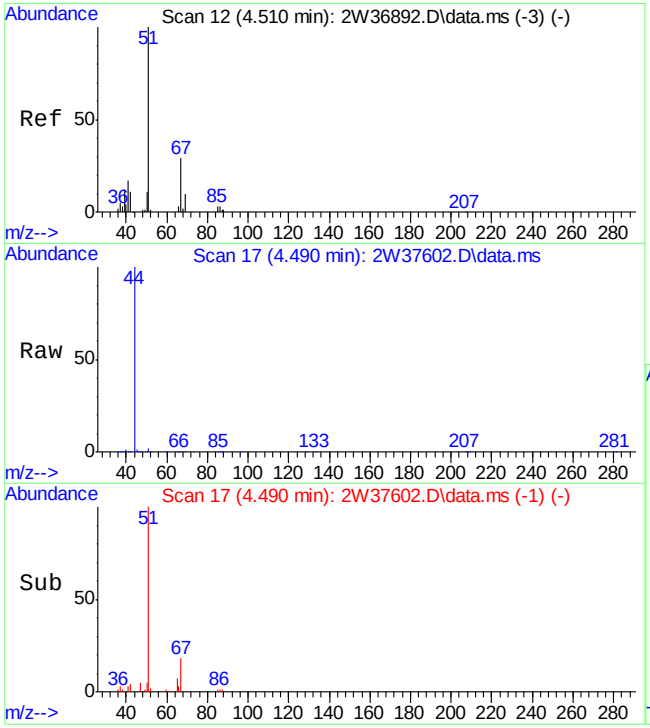


#3
DICHLORODIFLUOROMETHANE
Concen: 0.51 PPBV
RT: 4.594 min Scan# 34
Delta R.T. 0.000 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 85 Resp: 41651

Ion	Ratio	Lower	Upper
85	100		
87	32.2	12.2	52.2
50	11.8	0.0	31.0

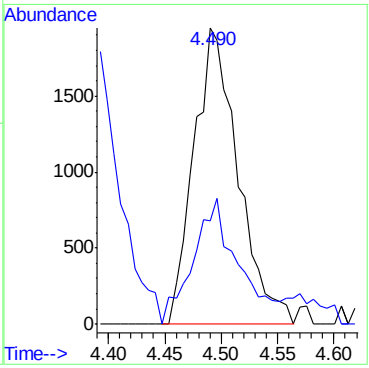


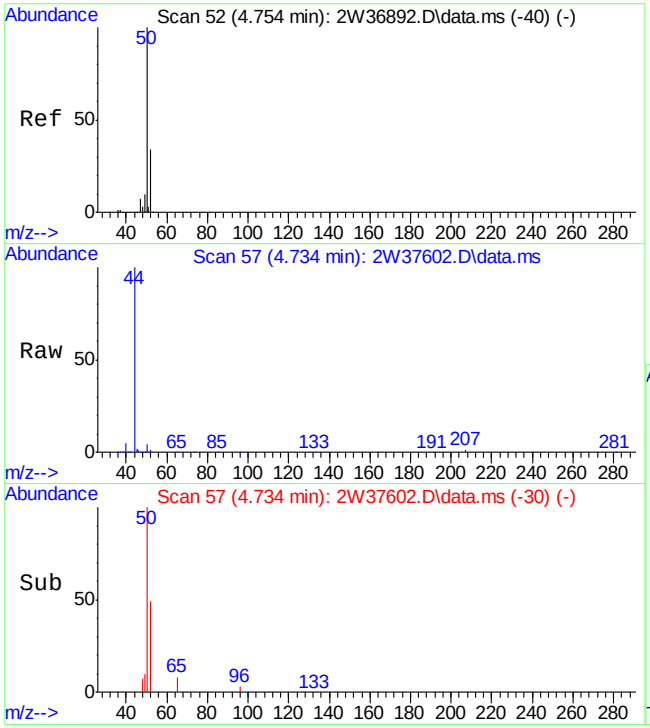


#5
CHLORODIFLUOROMETHANE
Concen: 0.63 PPBV
RT: 4.490 min Scan# 17
Delta R.T. -0.006 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 67 Resp: 5315

Ion	Ratio	Lower	Upper
67	100		
69	43.3	13.0	53.0

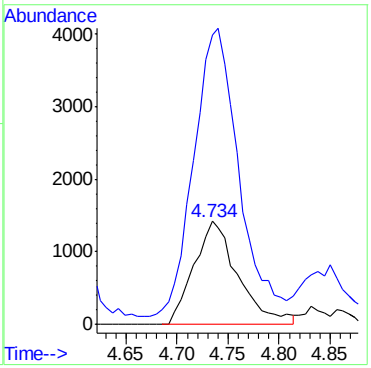


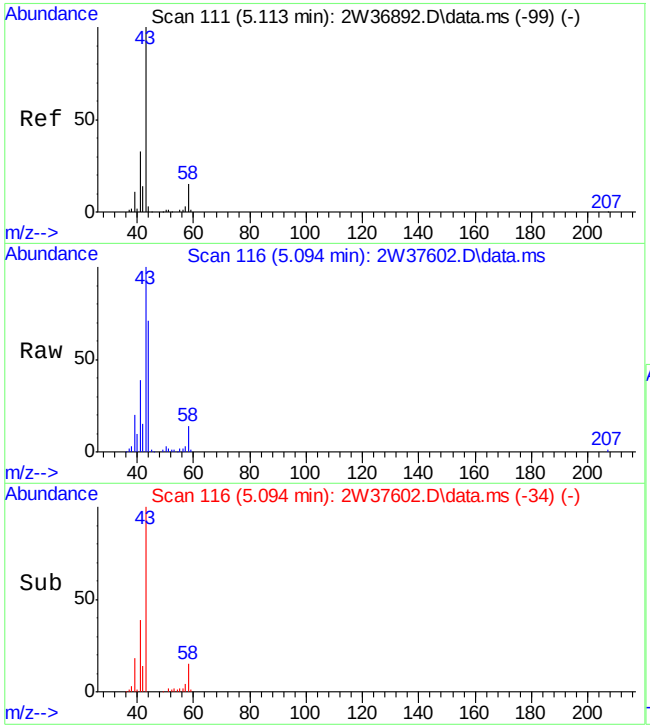


#8
CHLOROMETHANE
Concen: 0.52 PPBV
RT: 4.734 min Scan# 57
Delta R.T. -0.006 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 52 Resp: 4271

Ion	Ratio	Lower	Upper
52	100		
50	271.3	288.4	328.4#

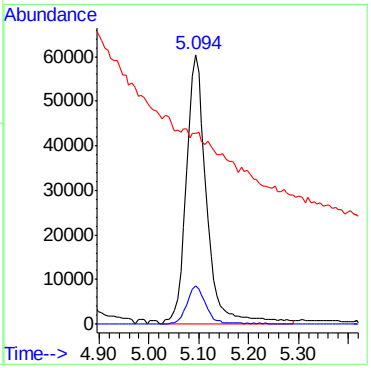


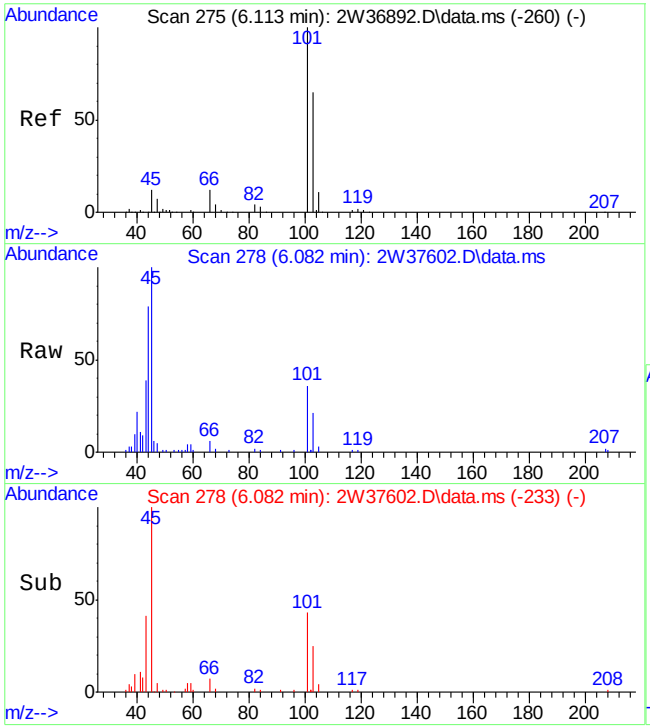


#11
n-BUTANE
Concen: 4.04 PPBV
RT: 5.094 min Scan# 116
Delta R.T. -0.000 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 43 Resp: 172891

Ion	Ratio	Lower	Upper
43	100		
58	13.4	11.0	16.6
44	0.0	2.6	4.0#

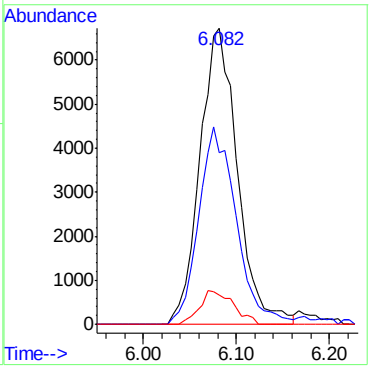


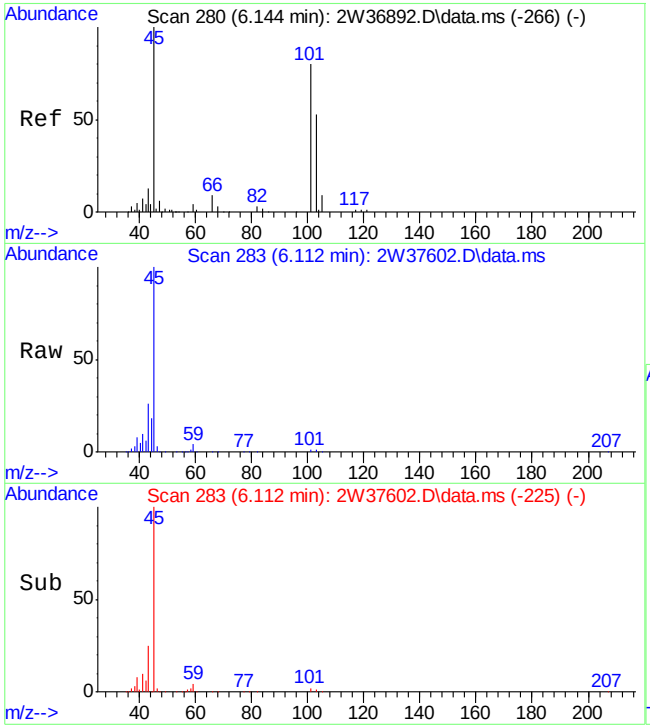


#18
TRICHLOROFLUOROMETHANE
Concen: 0.27 PPBV
RT: 6.082 min Scan# 278
Delta R.T. 0.001 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion:101 Resp: 18987

Ion	Ratio	Lower	Upper
101	100		
103	66.5	44.4	84.4
105	10.1	0.0	30.2

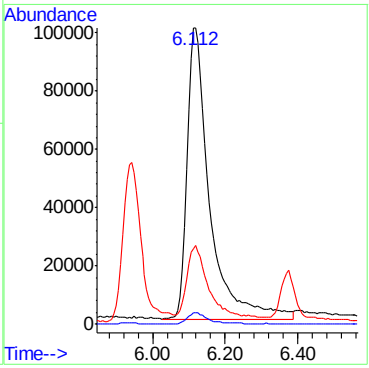


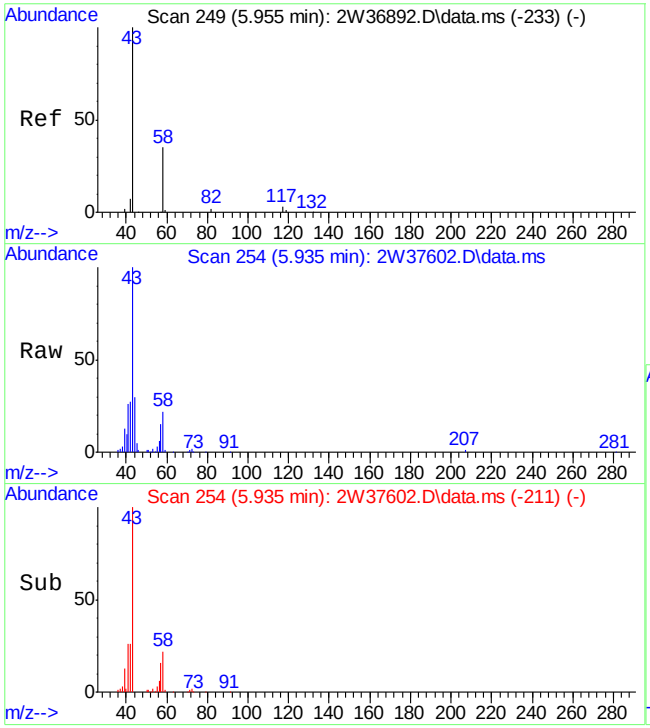


#19
ISOPROPYL ALCOHOL
Concen: 11.55 PPBV
RT: 6.112 min Scan# 283
Delta R.T. 0.006 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 45 Resp: 427350

Ion	Ratio	Lower	Upper
45	100		
59	3.7	0.0	24.3
43	25.6	1.0	41.0

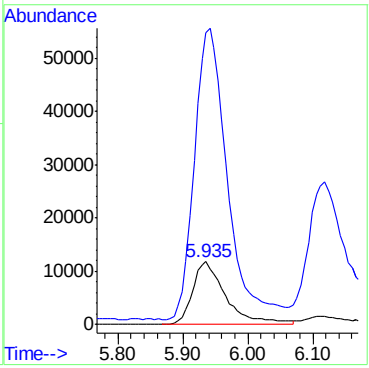


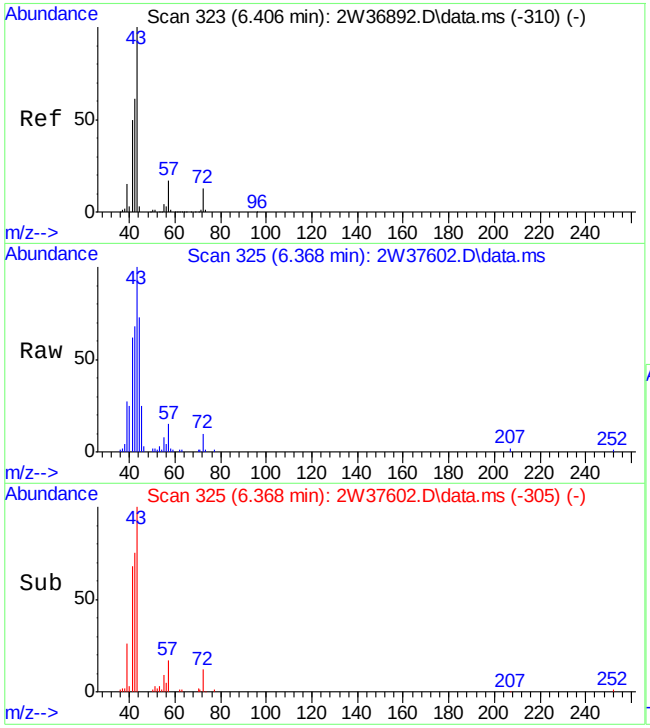


#20
ACETONE
Concen: 4.45 PPBV
RT: 5.935 min Scan# 254
Delta R.T. 0.012 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 58 Resp: 41703

Ion	Ratio	Lower	Upper
58	100		
43	463.7	270.5	310.5#

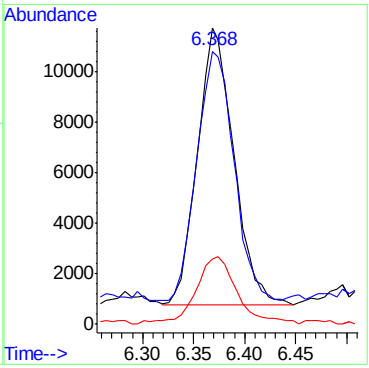


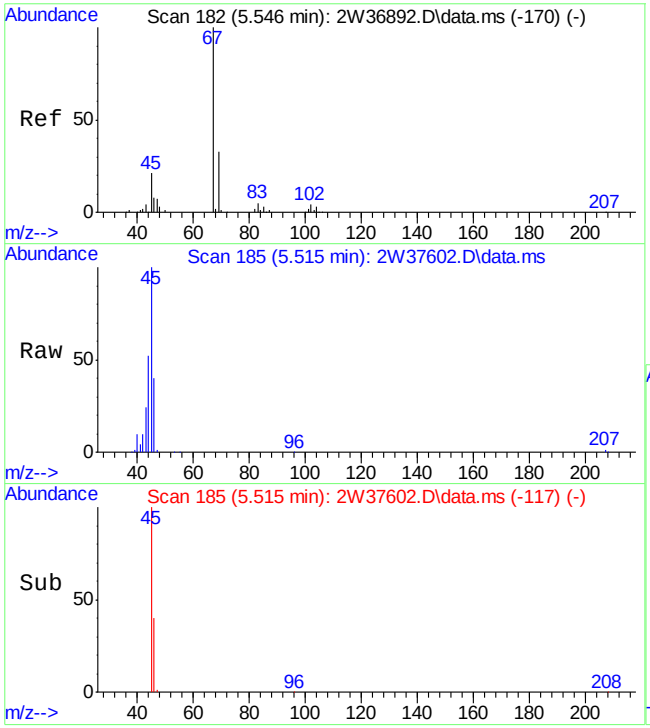


#21
PENTANE
Concen: 1.12 PPBV
RT: 6.368 min Scan# 325
Delta R.T. 0.000 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 42 Resp: 27115

Ion	Ratio	Lower	Upper
42	100		
41	92.1	68.9	108.9
57	27.7	7.1	47.1

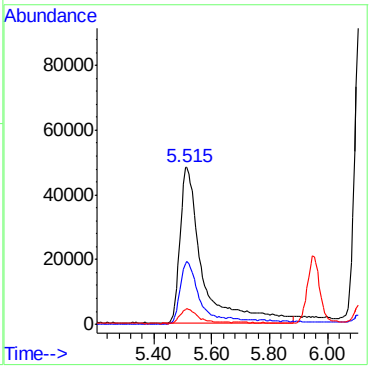


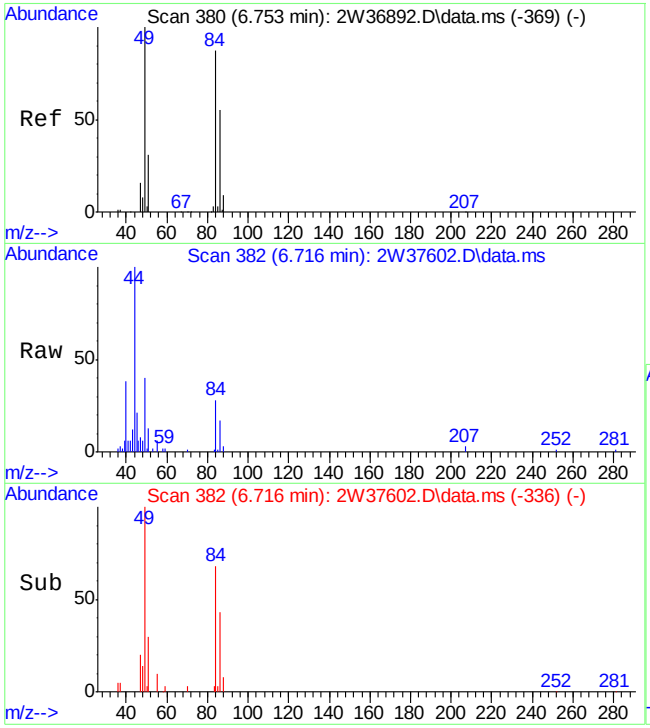


#27
ETHANOL
Concen: 34.44 PPBV
RT: 5.515 min Scan# 185
Delta R.T. 0.013 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 45 Resp: 261872

Ion	Ratio	Lower	Upper
45	100		
46	39.9	10.6	70.6
42	8.6	0.0	38.3

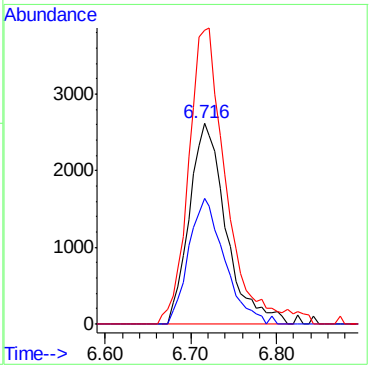


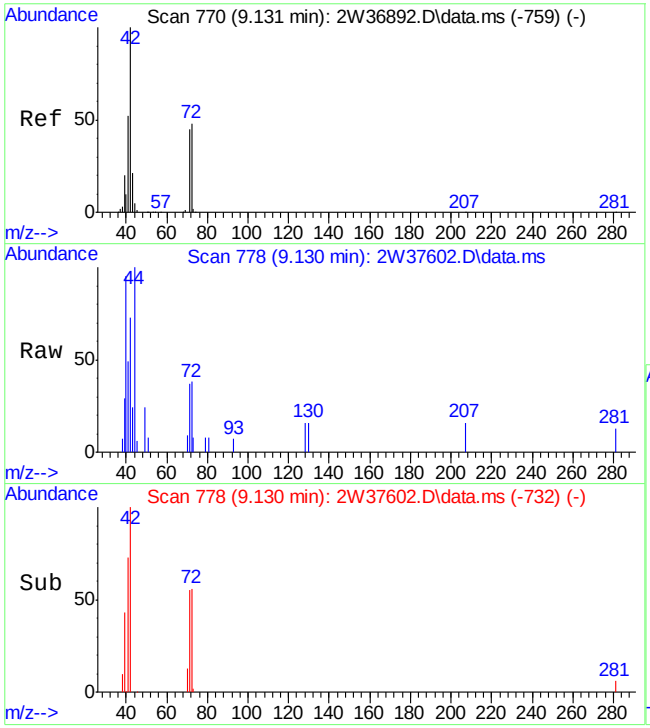


#30
METHYLENE CHLORIDE
Concen: 0.37 PPBV
RT: 6.716 min Scan# 382
Delta R.T. -0.000 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 84 Resp: 7790

Ion	Ratio	Lower	Upper
84	100		
86	61.3	44.9	84.9
49	151.5	0.0	335.2

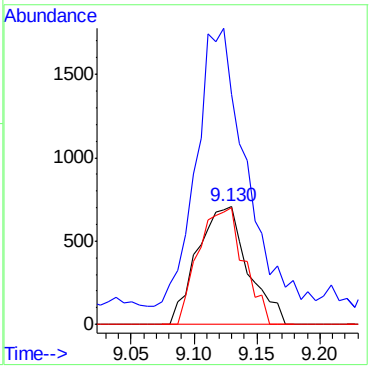


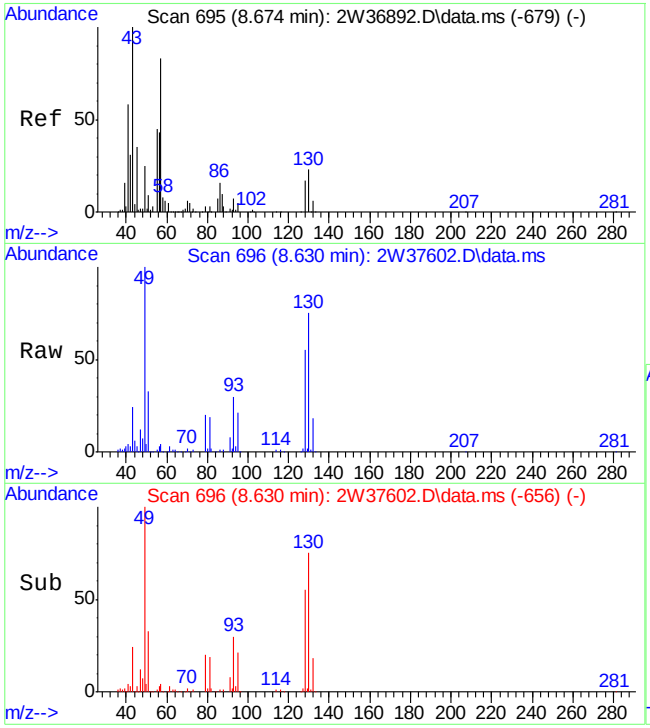


#36
TETRAHYDROFURAN
Concen: 0.21 PPBV
RT: 9.130 min Scan# 778
Delta R.T. 0.031 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 72 Resp: 1967

Ion	Ratio	Lower	Upper
72	100		
42	273.8	211.9	251.9#
71	88.5	76.3	116.3

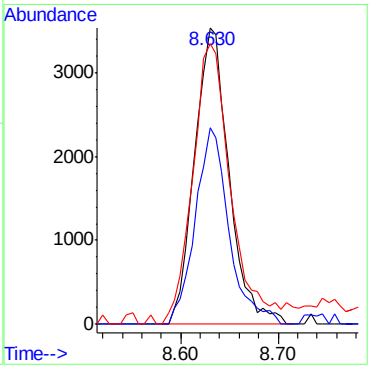


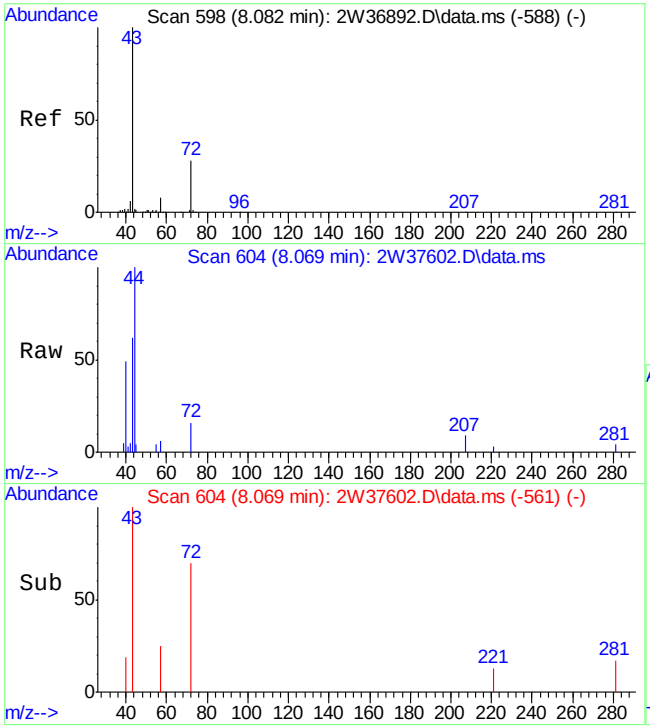


#37
HEXANE
Concen: 0.21 PPBV
RT: 8.630 min Scan# 696
Delta R.T. -0.006 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 57 Resp: 8663

Ion	Ratio	Lower	Upper
57	100		
56	64.9	33.9	73.9
41	107.3	77.9	117.9

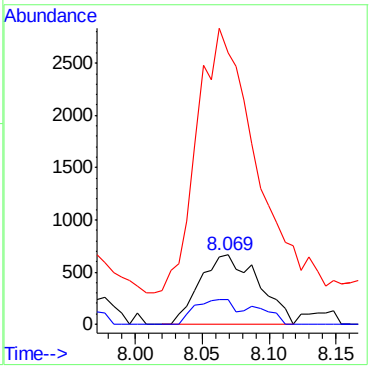


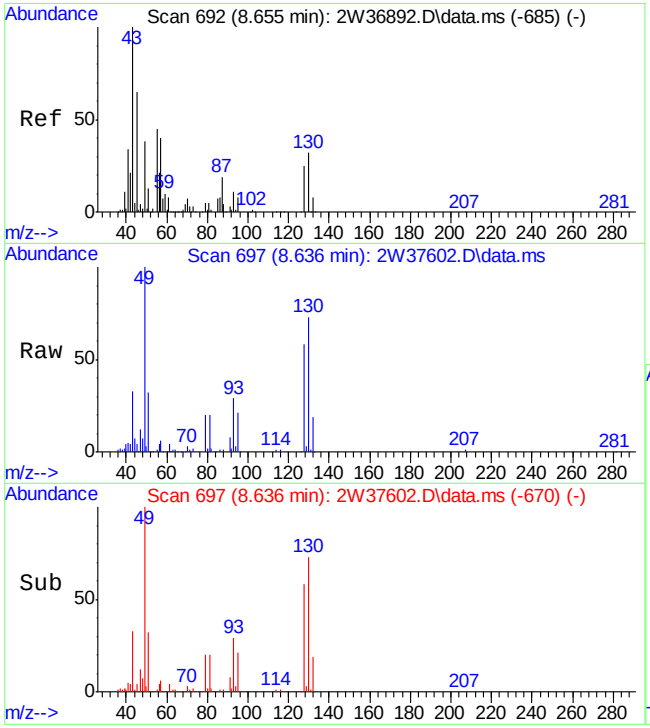


#40
METHYL ETHYL KETONE
Concen: 0.21 PPBV
RT: 8.069 min Scan# 604
Delta R.T. 0.018 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 72 Resp: 2012

Ion	Ratio	Lower	Upper
72	100		
57	36.2	14.2	54.2
43	391.1	395.6	435.6#

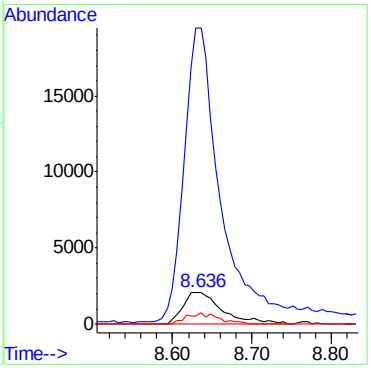


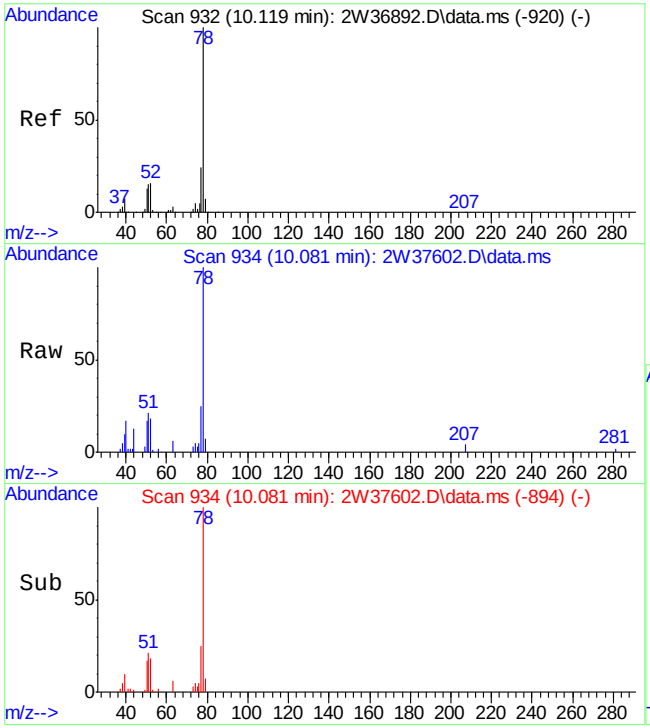


#42
ETHYL ACETATE
Concen: 1.19 PPBV
RT: 8.636 min Scan# 697
Delta R.T. 0.012 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 61 Resp: 7216

Ion	Ratio	Lower	Upper
61	100		
43	933.3	1612.5	1652.5#
88	28.8	19.8	59.8

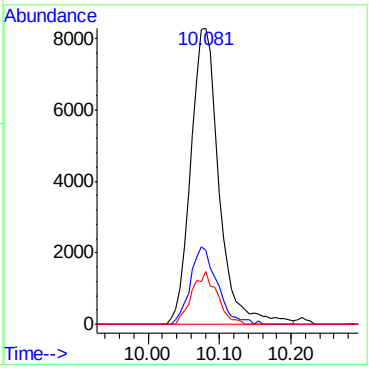


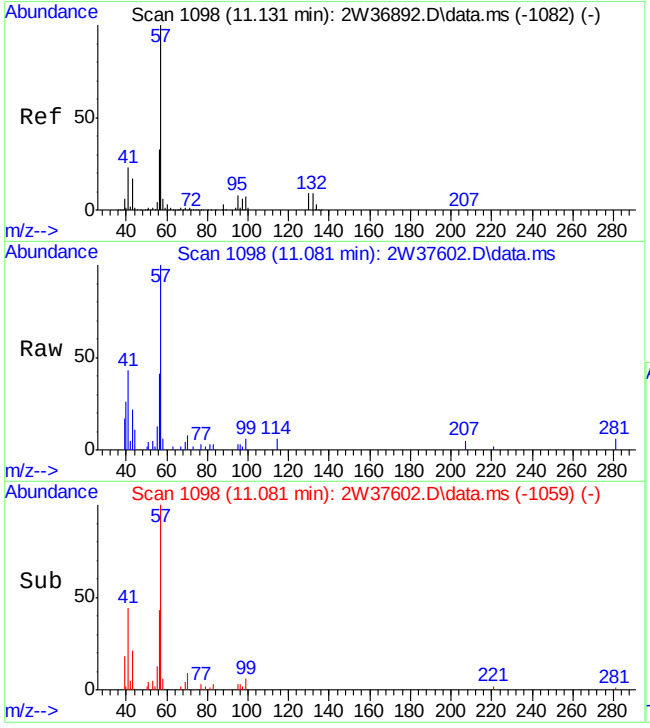


#50
BENZENE
Concen: 0.37 PPBV
RT: 10.081 min Scan# 934
Delta R.T. -0.000 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 78 Resp: 22660

Ion	Ratio	Lower	Upper
78	100		
77	25.0	4.3	44.3
52	15.9	0.0	37.1

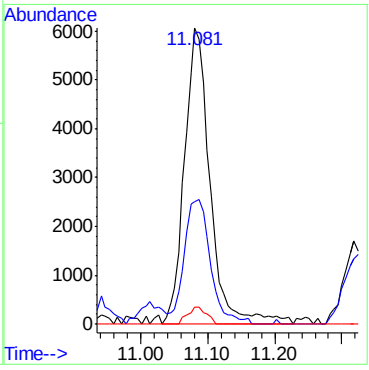


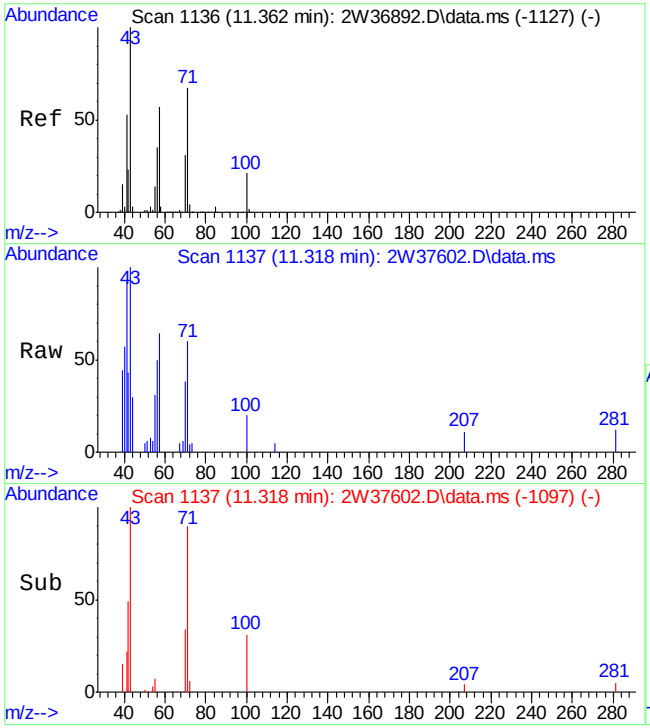


#58
2,2,4-TRIMETHYLPENTANE
Concen: 0.14 PPBV
RT: 11.081 min Scan# 1098
Delta R.T. -0.006 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 57 Resp: 16009

Ion	Ratio	Lower	Upper
57	100		
56	43.5	11.7	51.7
99	4.2	0.0	27.7

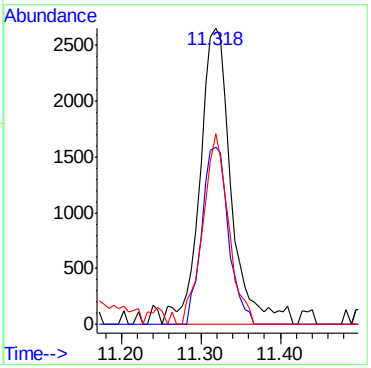


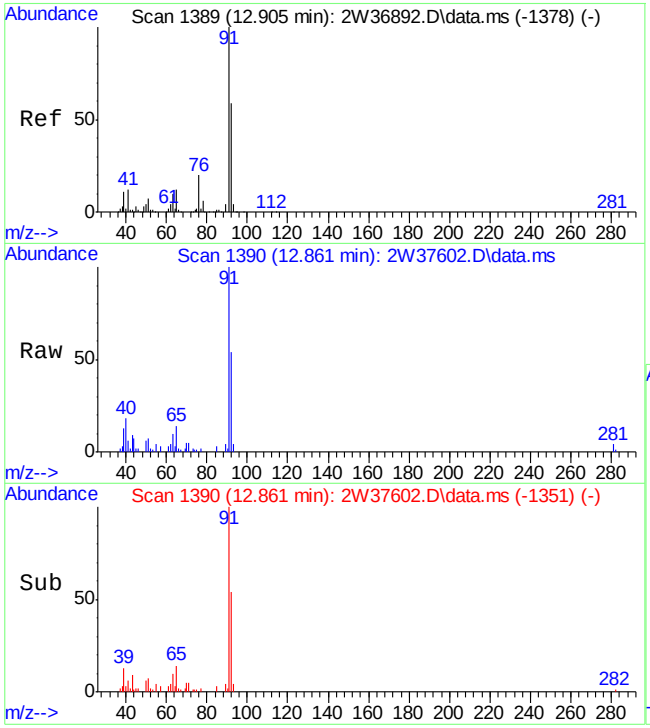


#61
HEPTANE
Concen: 0.17 PPBV
RT: 11.318 min Scan# 1137
Delta R.T. -0.006 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 43 Resp: 7251

Ion	Ratio	Lower	Upper
43	100		
71	50.9	39.8	79.8
57	52.5	34.5	74.5

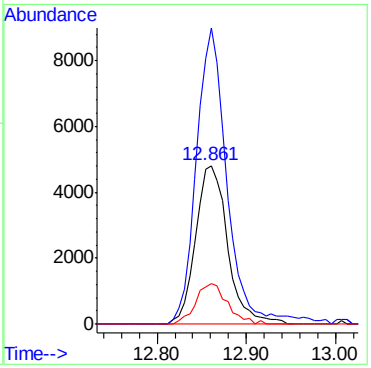


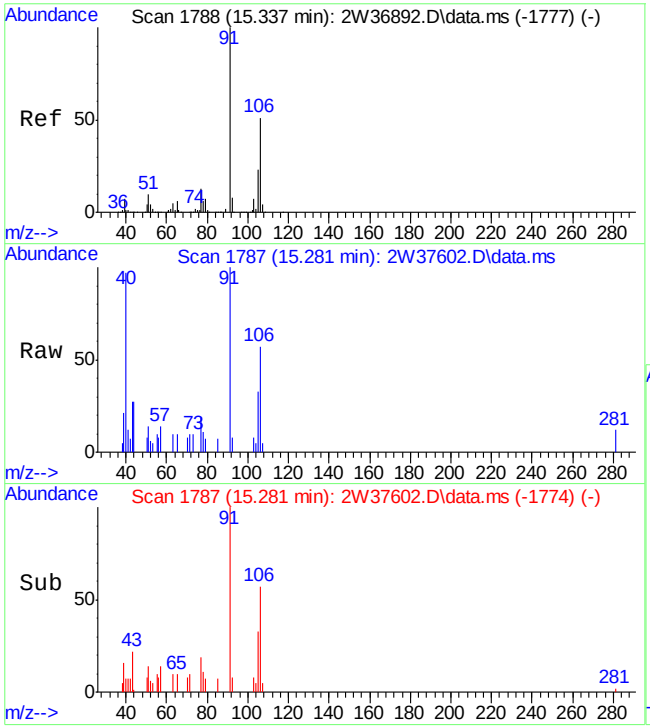


#65
TOLUENE
Concen: 0.30 PPBV
RT: 12.861 min Scan# 1390
Delta R.T. -0.006 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion: 92 Resp: 11916

Ion	Ratio	Lower	Upper
92	100		
91	179.9	151.3	191.3
65	25.1	3.8	43.8

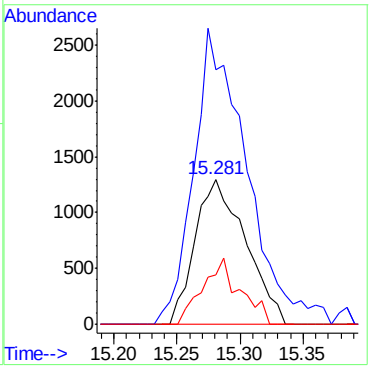




#78
m,p-XYLENE
Concen: 0.13 PPBV
RT: 15.281 min Scan# 1787
Delta R.T. -0.018 min
Lab File: 2W37602.D
Acq: 1 Mar 2013 4:16 am

Tgt Ion:106 Resp: 3621

Ion	Ratio	Lower	Upper
106	100		
91	175.3	164.8	247.2
77	33.9	22.3	33.5#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37603.D
Acq On : 1 Mar 2013 4:54 am
Operator : yunxiac
Sample : jb29729-3
Misc : MS43676,V2W1574,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 09:56:25 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

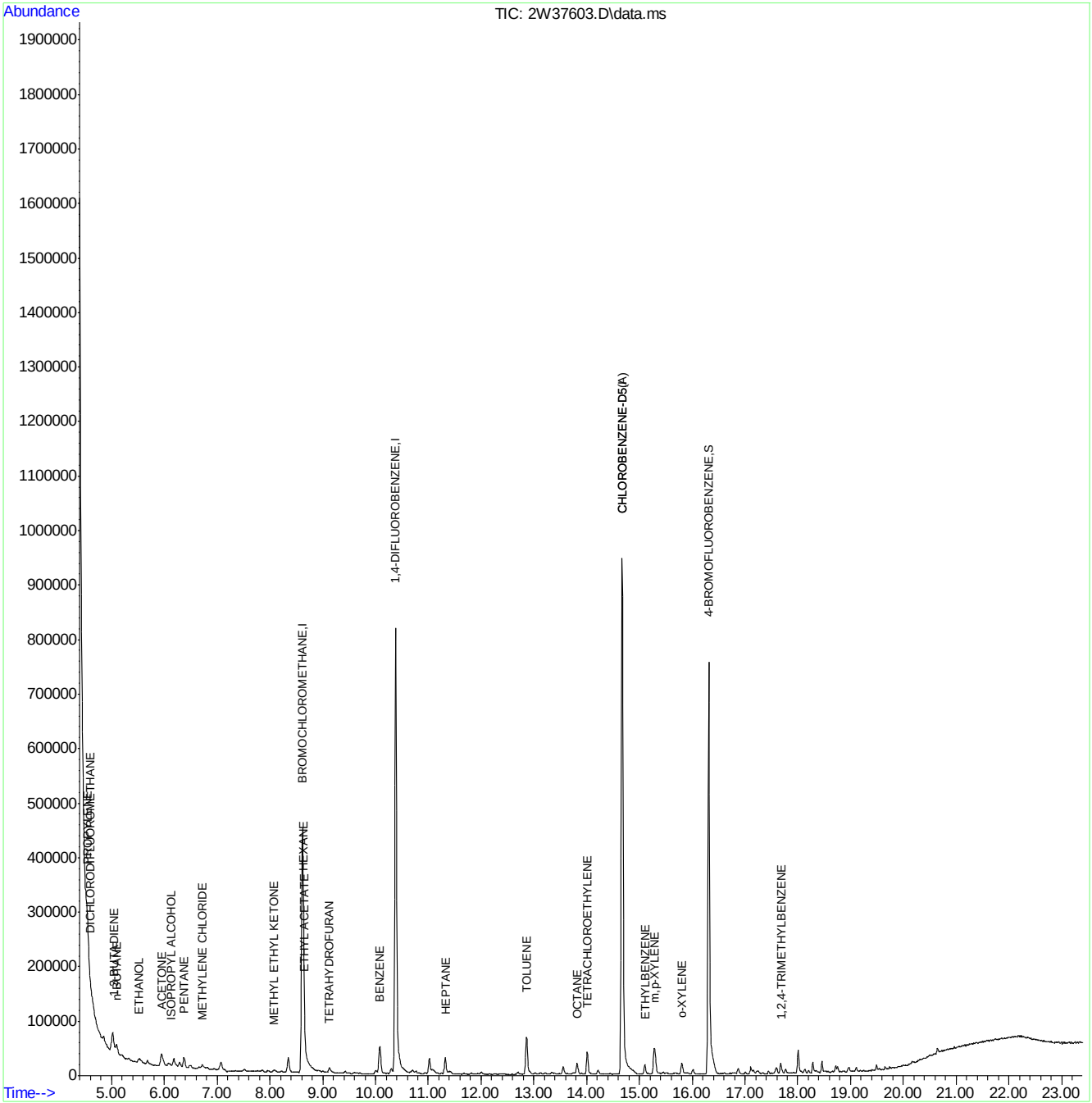
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	177954	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	826073	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.672	82	411075	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.672	82	411075	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	346676	8.28	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 82.80%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	10775	0.15	PPBV		97
6) PROPYLENE	4.533	41	38437	1.88	PPBV		91
10) 1,3-BUTADIENE	5.039	54	5634	0.29	PPBV	#	1
11) n-BUTANE	5.100	43	22997	0.59	PPBV	#	97
19) ISOPROPYL ALCOHOL	6.124	45	6218	0.19	PPBV	#	8
20) ACETONE	5.948	58	12766	1.50	PPBV	#	49
21) PENTANE	6.368	42	9654	0.44	PPBV		96
27) ETHANOL	5.521	45	16937	2.45	PPBV		87
30) METHYLENE CHLORIDE	6.716	84	3964	0.21	PPBV		88
36) TETRAHYDROFURAN	9.124	72	2974	0.35	PPBV	#	87
37) HEXANE	8.636	57	10908	0.28	PPBV		85
40) METHYL ETHYL KETONE	8.069	72	3077	0.36	PPBV		98
42) ETHYL ACETATE	8.654	61	1688	0.31	PPBV	#	1
50) BENZENE	10.081	78	58059	1.02	PPBV		99
61) HEPTANE	11.325	43	12051	0.31	PPBV		97
65) TOLUENE	12.861	92	37589	1.00	PPBV		97
71) TETRACHLOROETHYLENE	14.013	164	11765	0.38	PPBV		98
74) OCTANE	13.818	43	9565	0.22	PPBV		99
77) ETHYLBENZENE	15.104	91	17726	0.25	PPBV		96
78) m,p-XYLENE	15.281	106	21906	0.81	PPBV		92
79) o-XYLENE	15.805	106	6682	0.25	PPBV		93
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	9996	0.21	PPBV	#	35

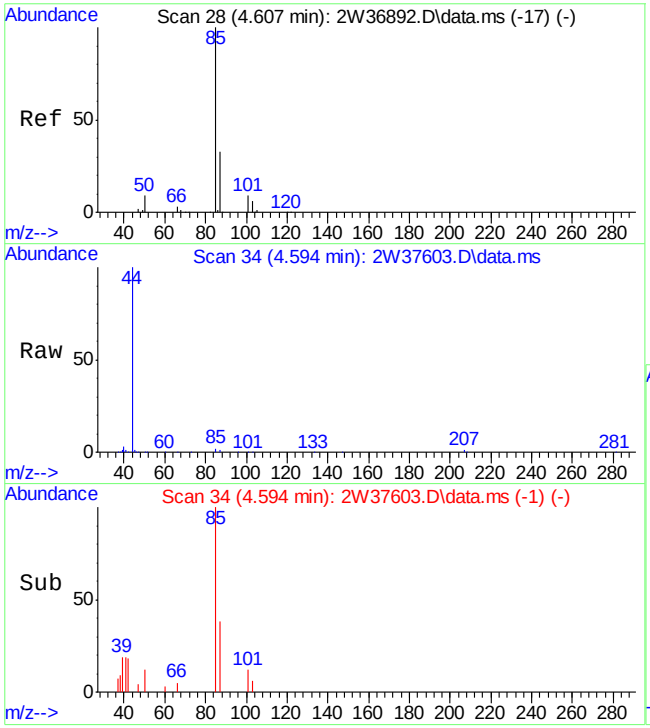
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37603.D
Acq On : 1 Mar 2013 4:54 am
Operator : yunxiac
Sample : jb29729-3
Misc : MS43676,V2W1574,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 09:56:25 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

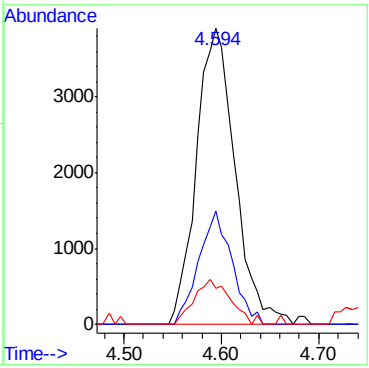


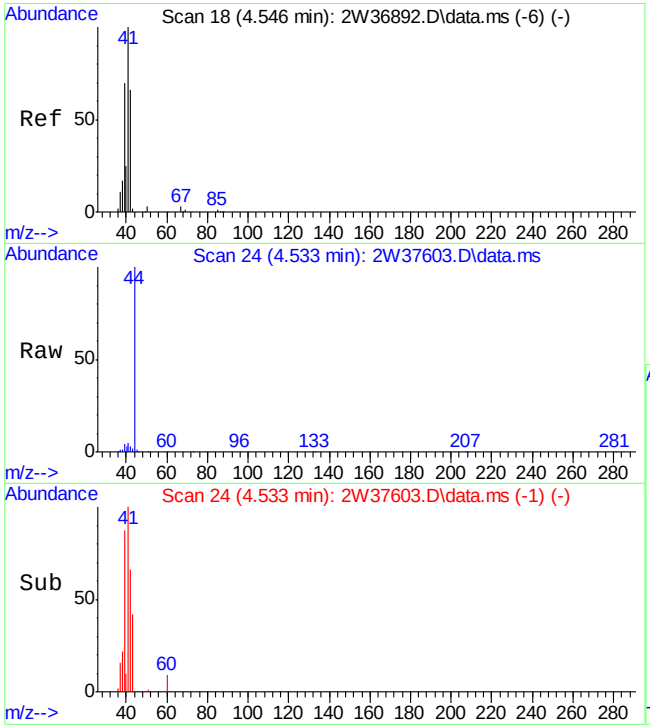


#3
DICHLORODIFLUOROMETHANE
Concen: 0.15 PPBV
RT: 4.594 min Scan# 34
Delta R.T. 0.000 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 85 Resp: 10775

Ion	Ratio	Lower	Upper
85	100		
87	32.8	12.2	52.2
50	14.2	0.0	31.0

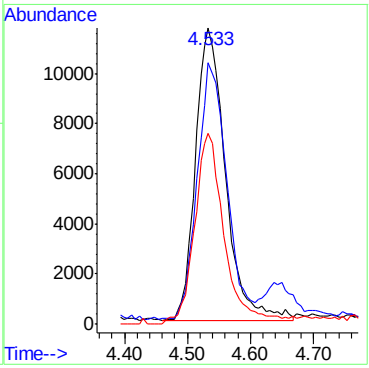


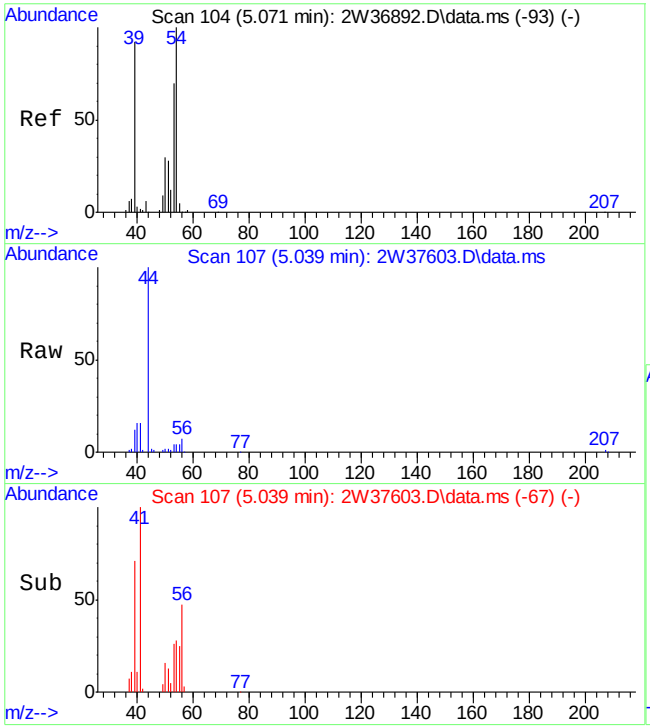


#6
PROPYLENE
Concen: 1.88 PPBV
RT: 4.533 min Scan# 24
Delta R.T. 0.006 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 41 Resp: 38437

Ion	Ratio	Lower	Upper
41	100		
39	88.1	54.9	94.9
42	64.4	45.3	85.3

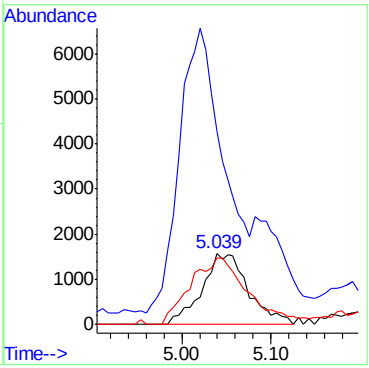


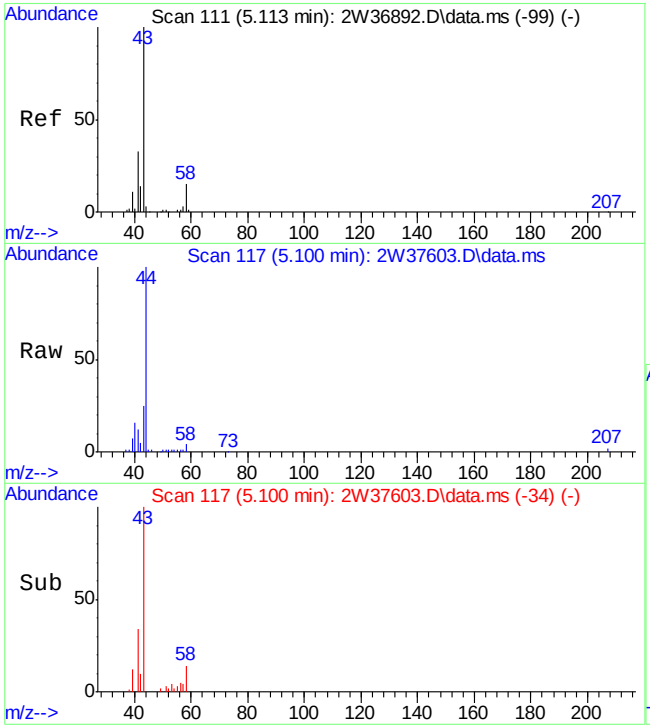


#10
1,3-BUTADIENE
Concen: 0.29 PPBV
RT: 5.039 min Scan# 107
Delta R.T. -0.006 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 54 Resp: 5634

Ion	Ratio	Lower	Upper
54	100		
39	390.0	110.8	150.8#
53	117.6	52.3	92.3#

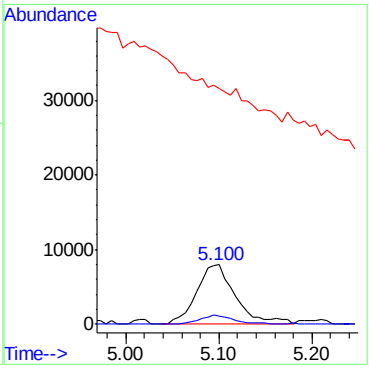


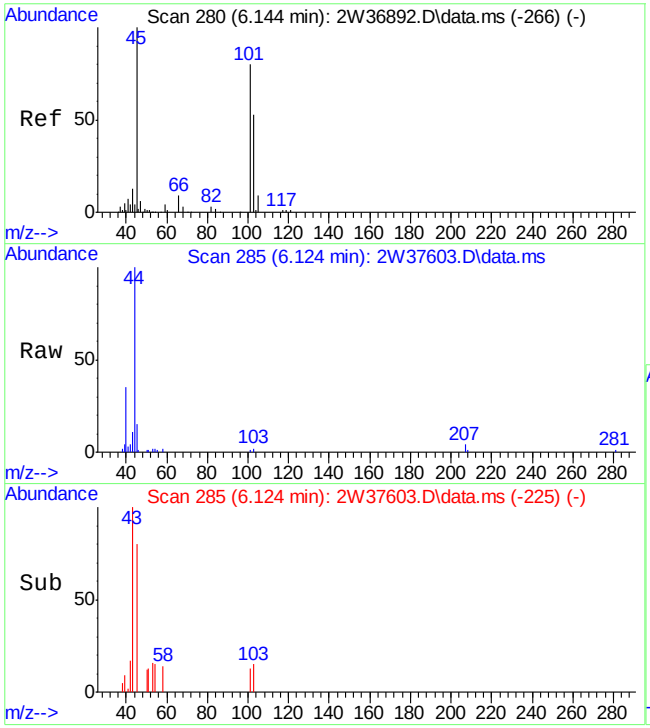


#11
n-BUTANE
Concen: 0.59 PPBV
RT: 5.100 min Scan# 117
Delta R.T. 0.006 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 43 Resp: 22997

Ion	Ratio	Lower	Upper
43	100		
58	13.1	11.0	16.6
44	0.0	2.6	4.0#

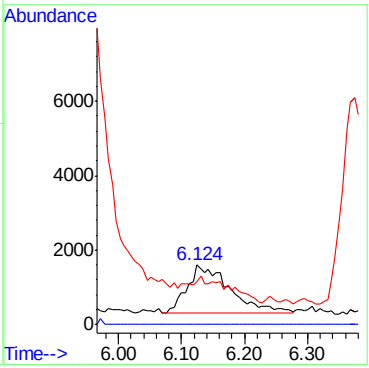


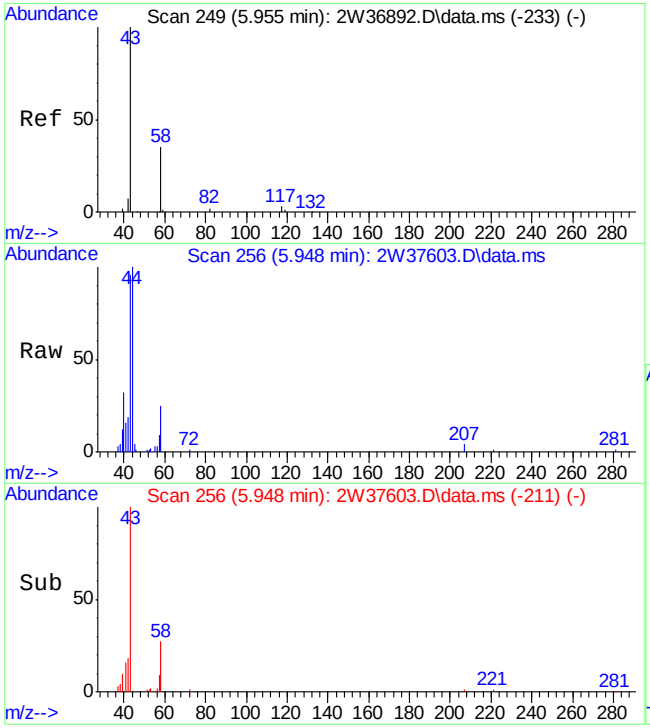


#19
ISOPROPYL ALCOHOL
Concen: 0.19 PPBV
RT: 6.124 min Scan# 285
Delta R.T. 0.018 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 45 Resp: 6218

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	24.3
43	71.9	1.0	41.0#

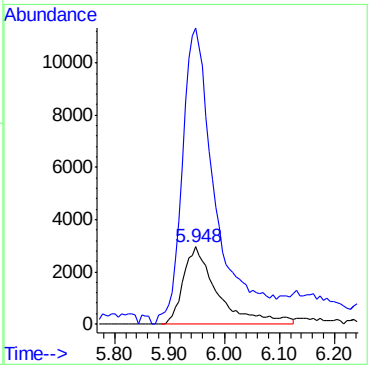


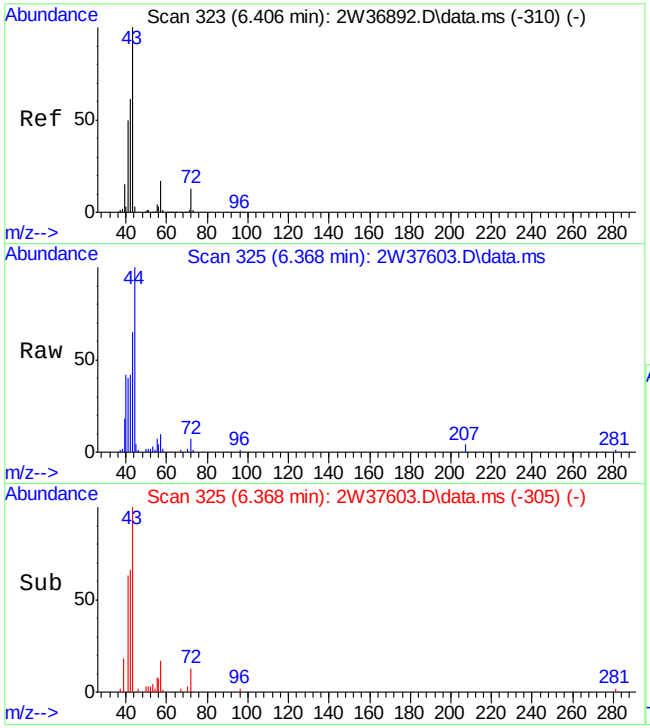


#20
ACETONE
Concen: 1.50 PPBV
RT: 5.948 min Scan# 256
Delta R.T. 0.025 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 58 Resp: 12766

Ion	Ratio	Lower	Upper
58	100		
43	389.2	270.5	310.5#

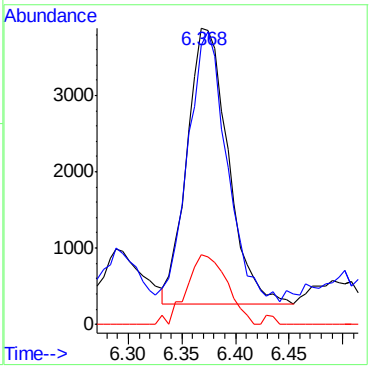


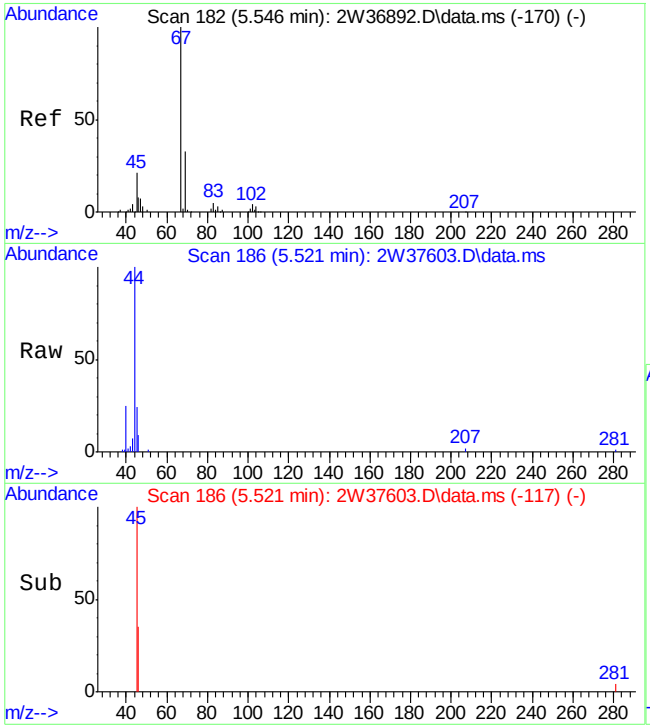


#21
PENTANE
Concen: 0.44 PPBV
RT: 6.368 min Scan# 325
Delta R.T. 0.000 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 42 Resp: 9654

Ion	Ratio	Lower	Upper
42	100		
41	92.7	68.9	108.9
57	24.7	7.1	47.1

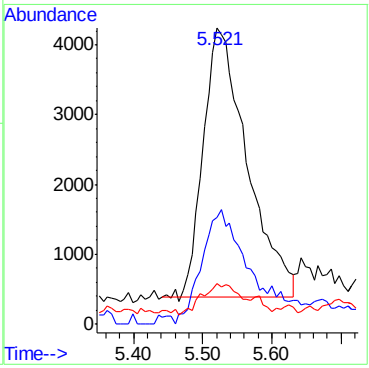


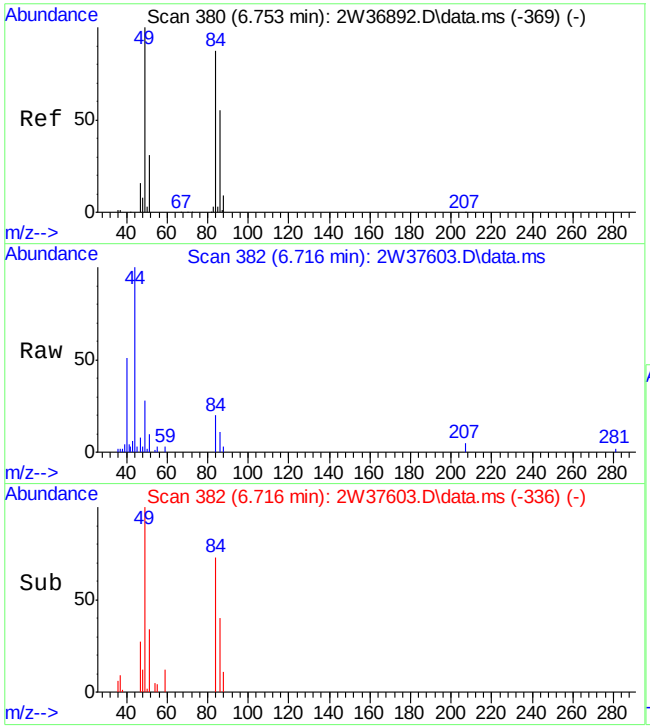


#27
ETHANOL
Concen: 2.45 PPBV
RT: 5.521 min Scan# 186
Delta R.T. 0.019 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 45 Resp: 16937

Ion	Ratio	Lower	Upper
45	100		
46	49.4	10.6	70.6
42	10.3	0.0	38.3

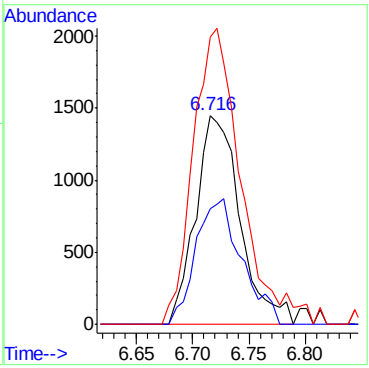


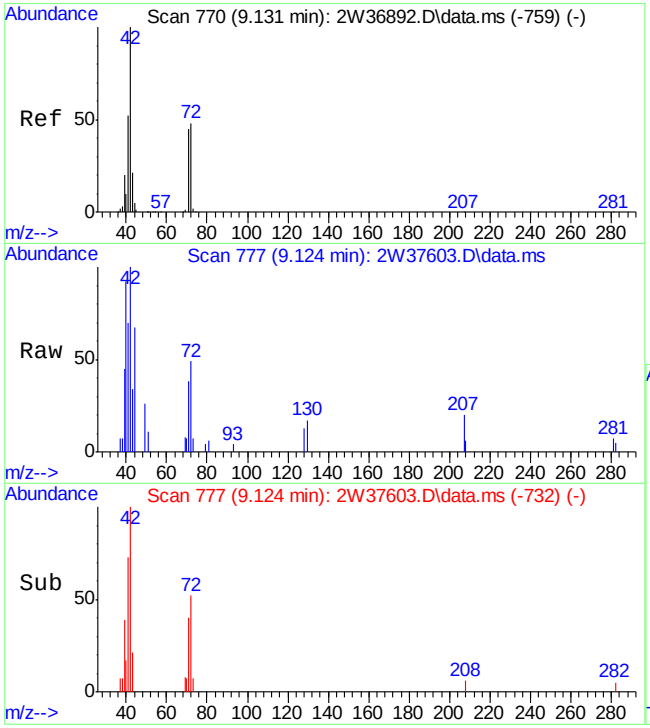


#30
METHYLENE CHLORIDE
Concen: 0.21 PPBV
RT: 6.716 min Scan# 382
Delta R.T. -0.000 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 84 Resp: 3964

Ion	Ratio	Lower	Upper
84	100		
86	61.8	44.9	84.9
49	153.8	0.0	335.2

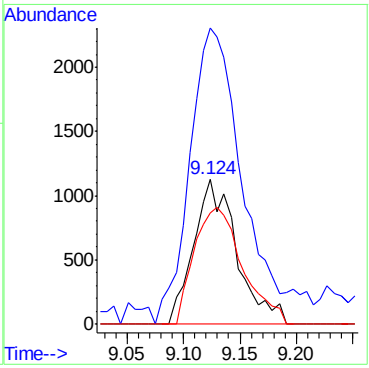


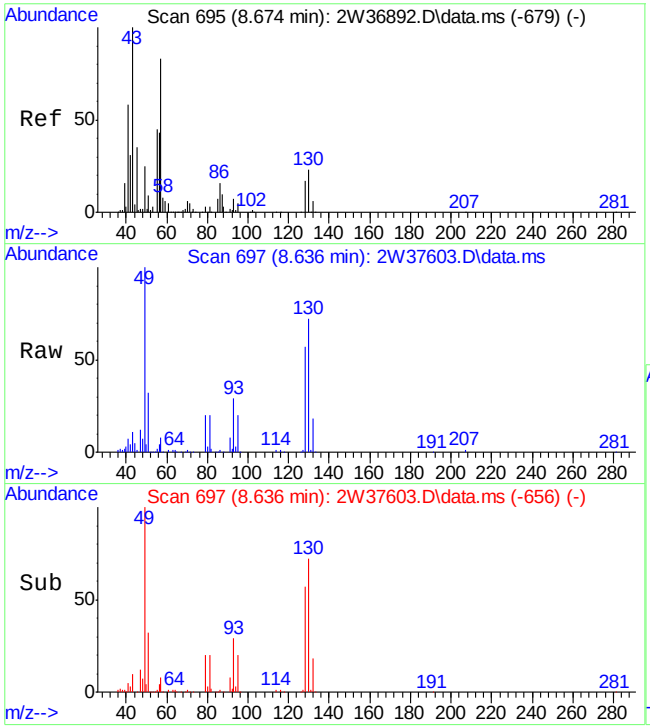


#36
TETRAHYDROFURAN
Concen: 0.35 PPBV
RT: 9.124 min Scan# 777
Delta R.T. 0.025 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 72 Resp: 2974

Ion	Ratio	Lower	Upper
72	100		
42	258.4	211.9	251.9#
71	91.0	76.3	116.3

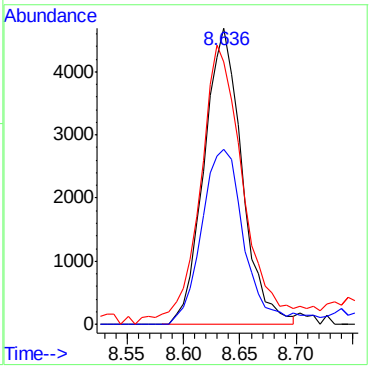


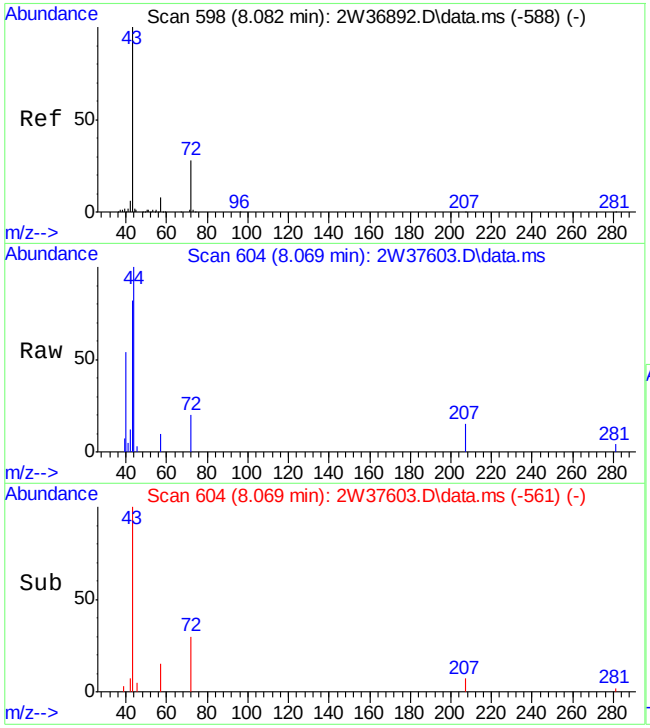


#37
HEXANE
Concen: 0.28 PPBV
RT: 8.636 min Scan# 697
Delta R.T. 0.000 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 57 Resp: 10908

Ion	Ratio	Lower	Upper
57	100		
56	67.8	33.9	73.9
41	110.4	77.9	117.9

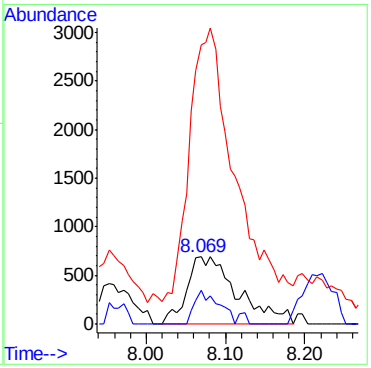


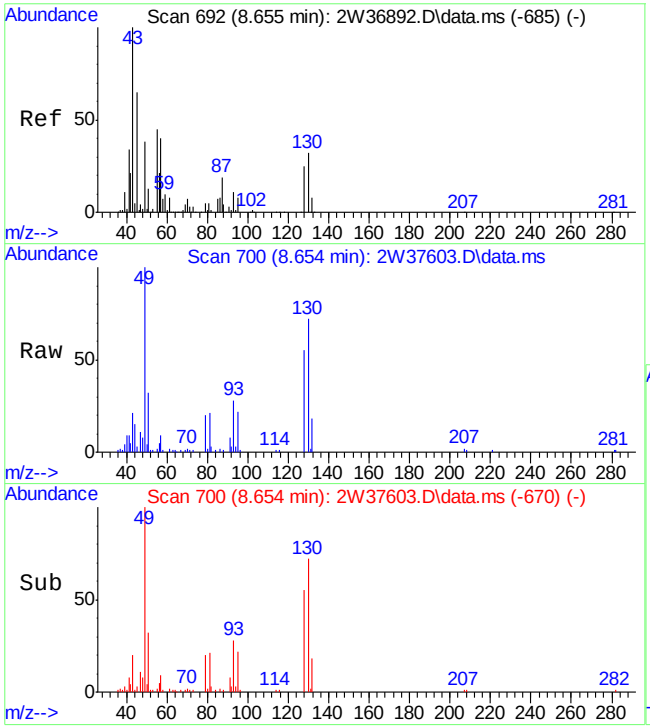


#40
METHYL ETHYL KETONE
Concen: 0.36 PPBV
RT: 8.069 min Scan# 604
Delta R.T. 0.018 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 72 Resp: 3077

Ion	Ratio	Lower	Upper
72	100		
57	50.0	14.2	54.2
43	415.8	395.6	435.6

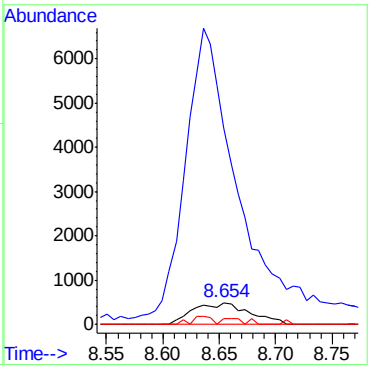


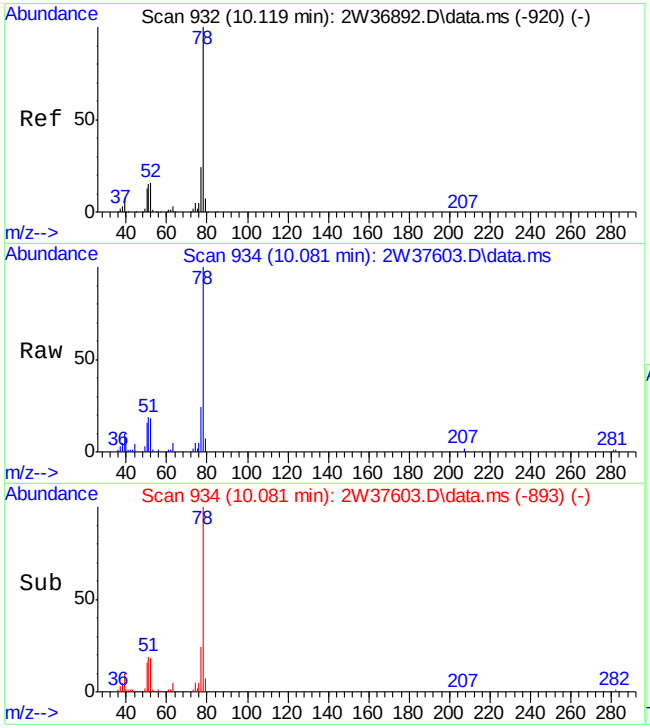


#42
ETHYL ACETATE
Concen: 0.31 PPBV
RT: 8.654 min Scan# 700
Delta R.T. 0.030 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 61 Resp: 1688

Ion	Ratio	Lower	Upper
61	100		
43	0.0	1612.5	1652.5#
88	10.8	19.8	59.8#

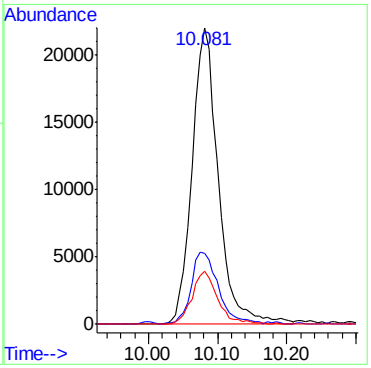


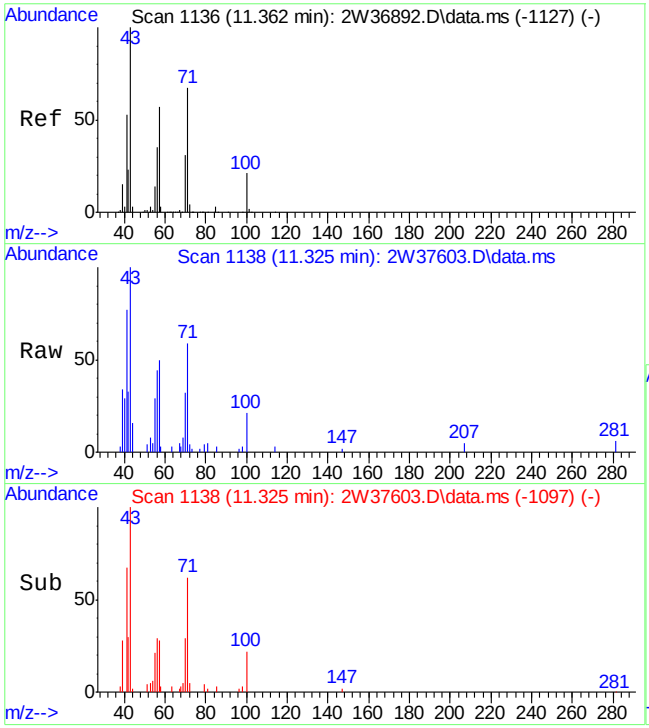


#50
BENZENE
Concen: 1.02 PPBV
RT: 10.081 min Scan# 934
Delta R.T. -0.000 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 78 Resp: 58059

Ion	Ratio	Lower	Upper
78	100		
77	25.2	4.3	44.3
52	17.3	0.0	37.1

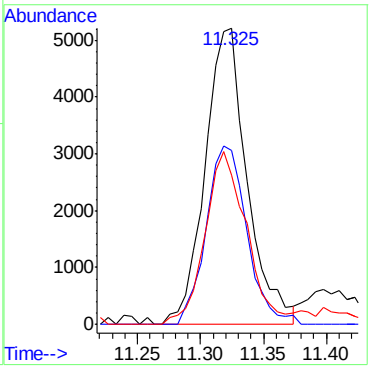


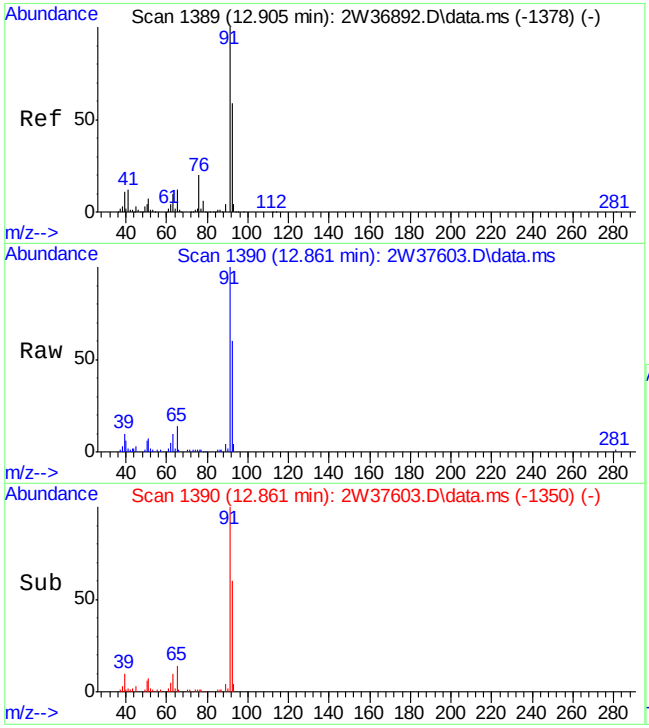


#61
HEPTANE
Concen: 0.31 PPBV
RT: 11.325 min Scan# 1138
Delta R.T. 0.001 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 43 Resp: 12051

Ion	Ratio	Lower	Upper
43	100		
71	58.3	39.8	79.8
57	56.9	34.5	74.5

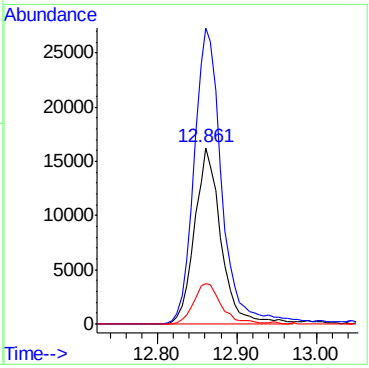


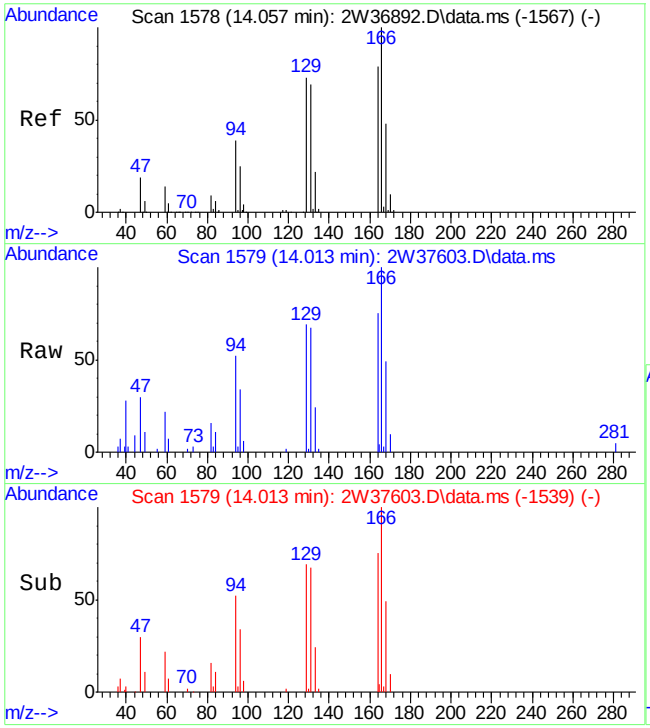


#65
TOLUENE
Concen: 1.00 PPBV
RT: 12.861 min Scan# 1390
Delta R.T. -0.006 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 92 Resp: 37589

Ion	Ratio	Lower	Upper
92	100		
91	176.1	151.3	191.3
65	24.0	3.8	43.8

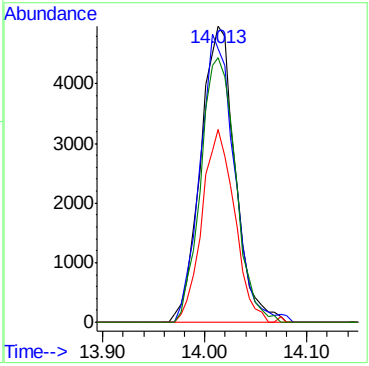


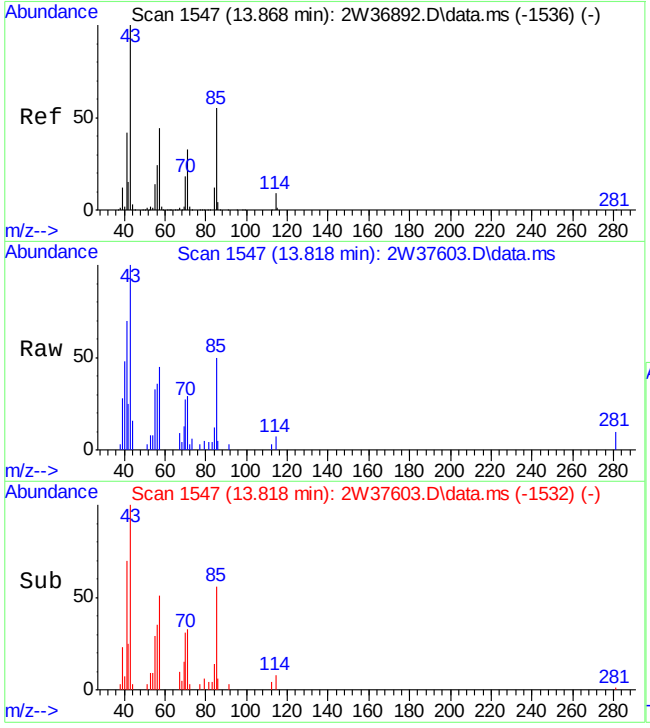


#71
TETRACHLOROETHYLENE
Concen: 0.38 PPBV
RT: 14.013 min Scan# 1579
Delta R.T. -0.006 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion:164 Resp: 11765

Ion	Ratio	Lower	Upper
164	100		
129	96.1	72.7	112.7
168	61.1	41.8	81.8
131	90.1	69.2	109.2

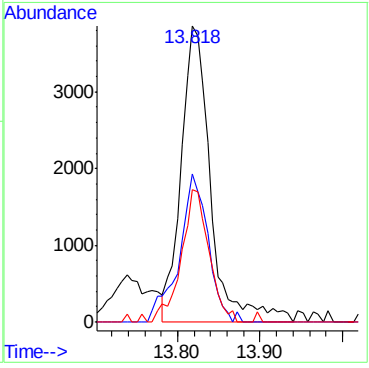


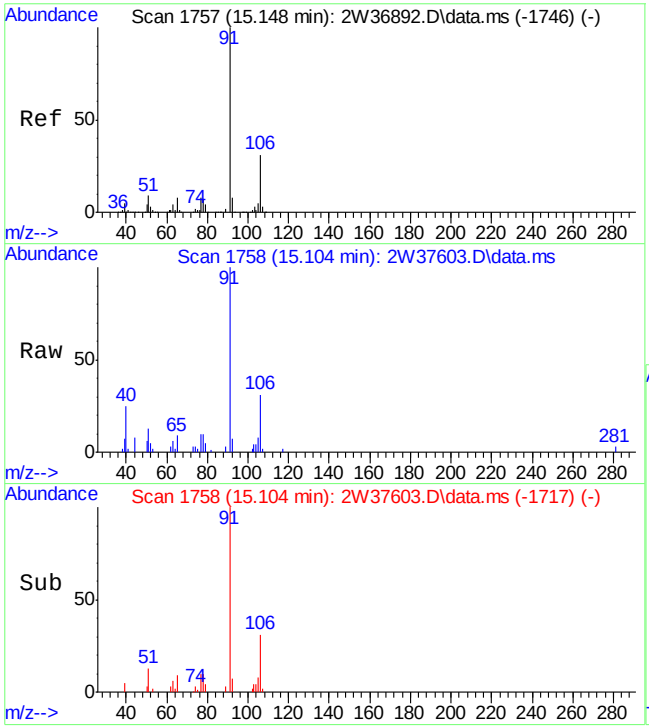


#74
OCTANE
Concen: 0.22 PPBV
RT: 13.818 min Scan# 1547
Delta R.T. -0.006 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 43 Resp: 9565

Ion	Ratio	Lower	Upper
43	100		
85	48.5	38.5	57.7
57	42.0	33.0	49.6

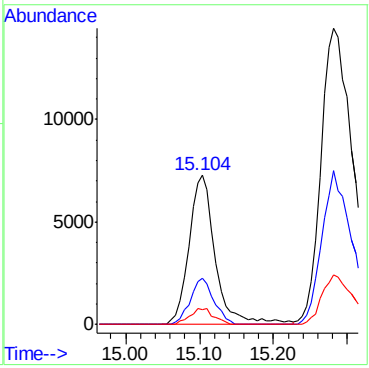


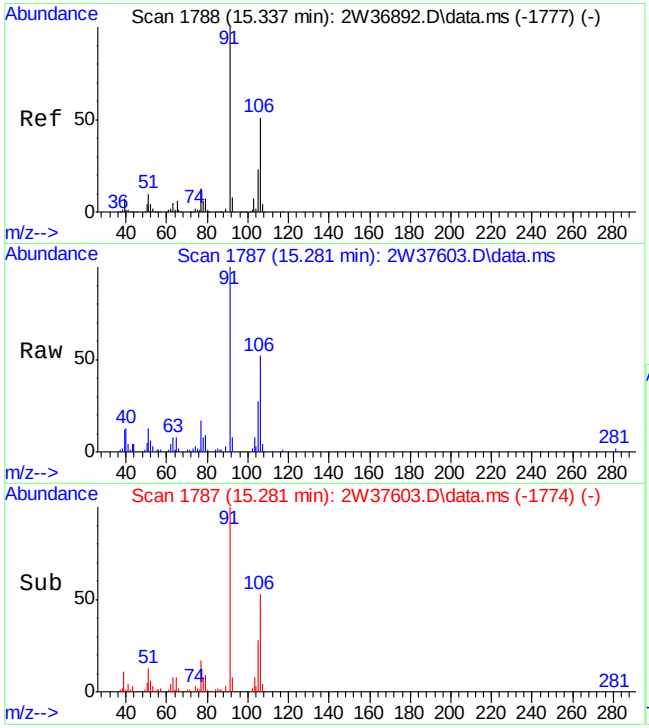


#77
ETHYLBENZENE
Concen: 0.25 PPBV
RT: 15.104 min Scan# 1758
Delta R.T. 0.000 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion: 91 Resp: 17726

Ion	Ratio	Lower	Upper
91	100		
106	27.7	10.4	50.4
77	9.6	0.0	28.9

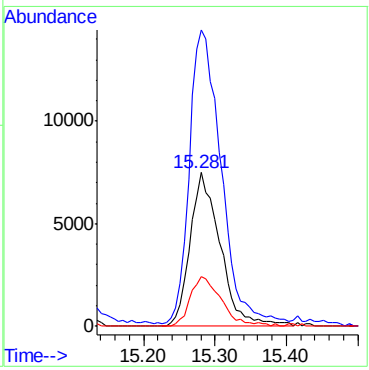


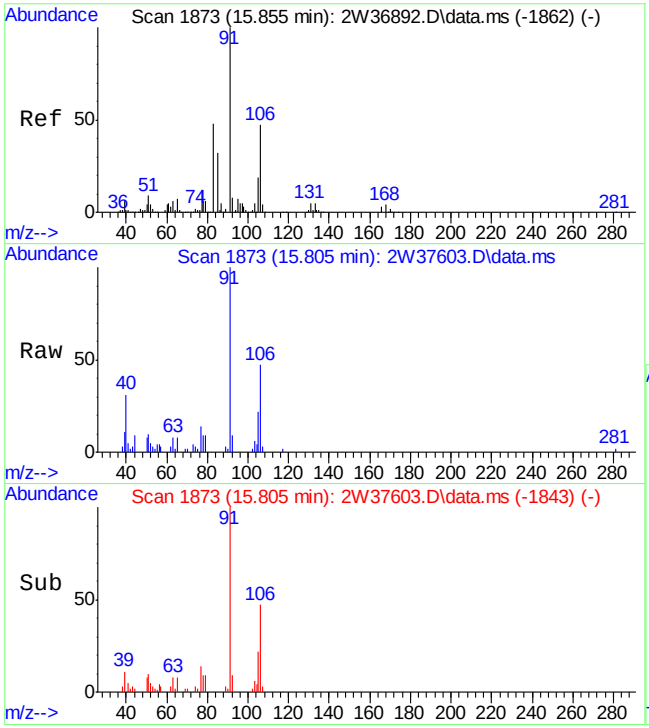


#78
m,p-XYLENE
Concen: 0.81 PPBV
RT: 15.281 min Scan# 1787
Delta R.T. -0.018 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion:106 Resp: 21906

Ion	Ratio	Lower	Upper
106	100		
91	192.8	164.8	247.2
77	32.0	22.3	33.5

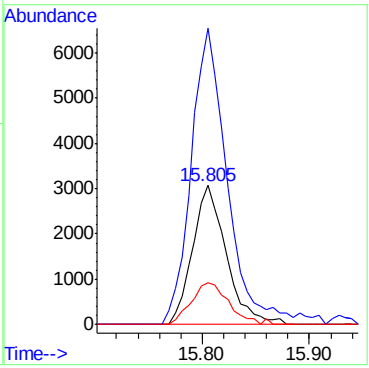


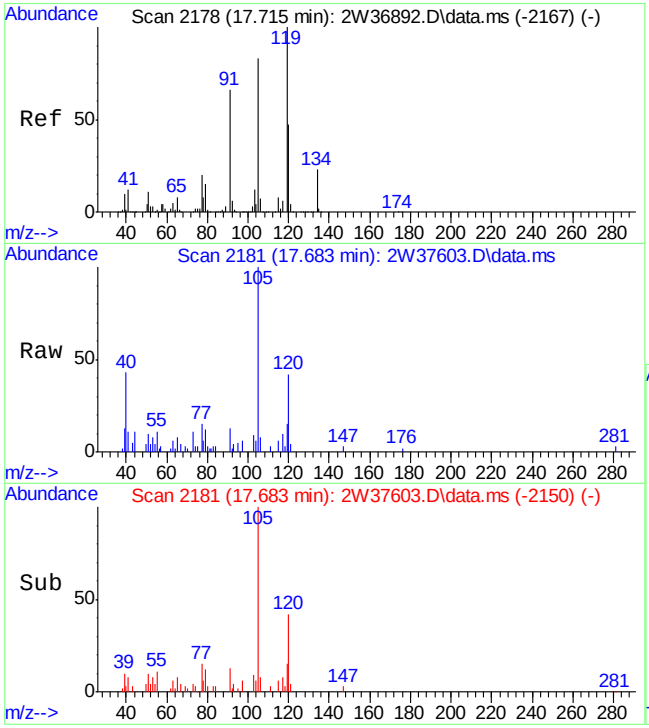


#79
o-XYLENE
Concen: 0.25 PPBV
RT: 15.805 min Scan# 1873
Delta R.T. -0.006 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion:106 Resp: 6682

Ion	Ratio	Lower	Upper
106	100		
91	230.9	201.0	241.0
77	33.7	8.1	48.1

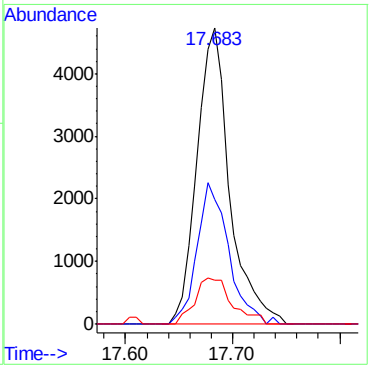




#93
1,2,4-TRIMETHYLBENZENE
Concen: 0.21 PPBV
RT: 17.683 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 2W37603.D
Acq: 1 Mar 2013 4:54 am

Tgt Ion:105 Resp: 9996

Ion	Ratio	Lower	Upper
105	100		
120	46.1	34.7	74.7
119	17.5	95.9	135.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37604.D
Acq On : 1 Mar 2013 5:35 am
Operator : yunxiac
Sample : jb29729-4
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 09:59:09 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

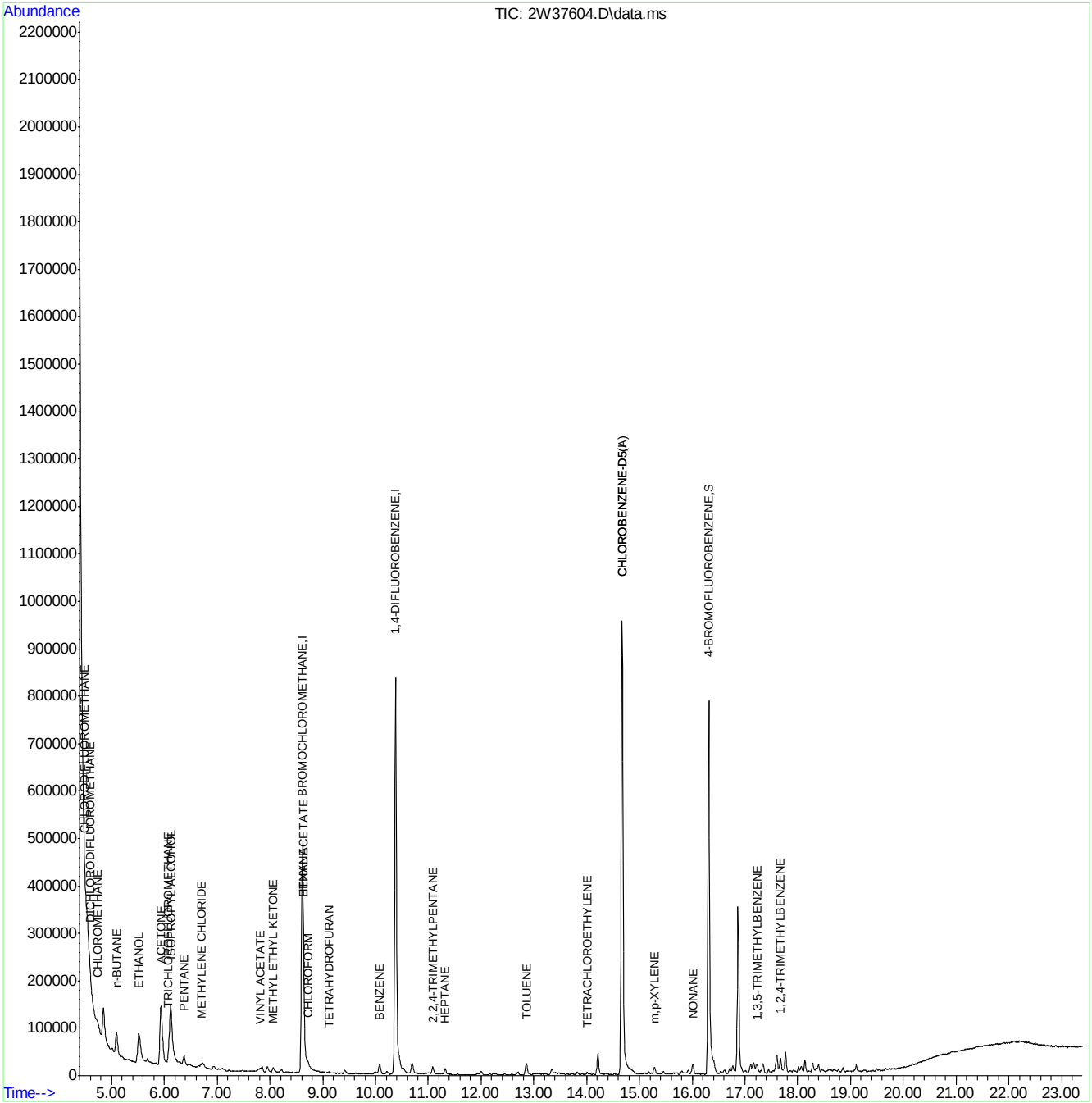
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	190760	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.379	114	825026	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	413985	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	413985	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	352970	8.37	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 83.70%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	40256	0.51	PPBV		98
5) CHLORODIFLUOROMETHANE	4.496	67	2713	0.33	PPBV		91
8) CHLOROMETHANE	4.740	52	7126	0.89	PPBV		93
11) n-BUTANE	5.094	43	69966	1.68	PPBV	#	96
18) TRICHLOROFLUOROMETHANE	6.075	101	19619	0.28	PPBV		100
19) ISOPROPYL ALCOHOL	6.118	45	315127	8.76	PPBV		86
20) ACETONE	5.929	58	73123	8.03	PPBV	#	76
21) PENTANE	6.368	42	9585	0.41	PPBV		95
27) ETHANOL	5.515	45	184025	24.88	PPBV		99
30) METHYLENE CHLORIDE	6.709	84	6123	0.30	PPBV		90
36) TETRAHYDROFURAN	9.124	72	591	0.07	PPBV	#	59
37) HEXANE	8.636	57	5855	0.14	PPBV		90
38) VINYL ACETATE	7.813	86	2567	0.63	PPBV	#	94
40) METHYL ETHYL KETONE	8.063	72	4796	0.52	PPBV		93
42) ETHYL ACETATE	8.636	61	4862	0.82	PPBV	#	1
44) CHLOROFORM	8.727	83	7459	0.15	PPBV	#	86
50) BENZENE	10.081	78	21761	0.38	PPBV		97
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	13843	0.13	PPBV		83
61) HEPTANE	11.318	43	6222	0.16	PPBV		92
65) TOLUENE	12.861	92	10755	0.29	PPBV		95
71) TETRACHLOROETHYLENE	14.013	164	1219	0.04	PPBV		94
78) m,p-XYLENE	15.281	106	3966	0.15	PPBV		96
81) NONANE	16.013	43	7306	0.19	PPBV		96
90) 1,3,5-TRIMETHYLBENZENE	17.232	105	7627	0.14	PPBV		97
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	13752	0.28	PPBV	#	34

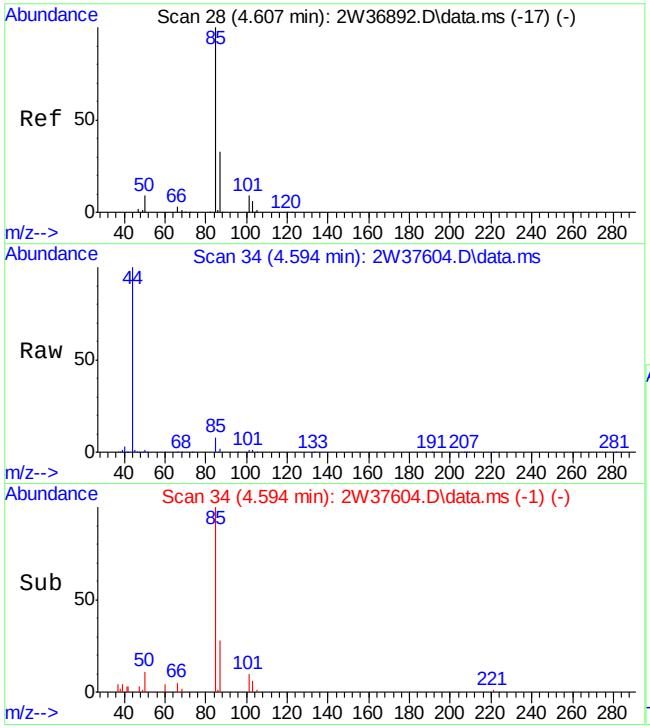
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37604.D
Acq On : 1 Mar 2013 5:35 am
Operator : yunxiac
Sample : jb29729-4
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 09:59:09 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

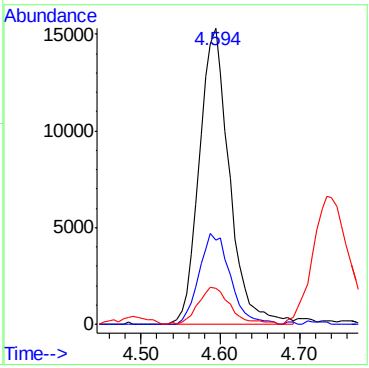


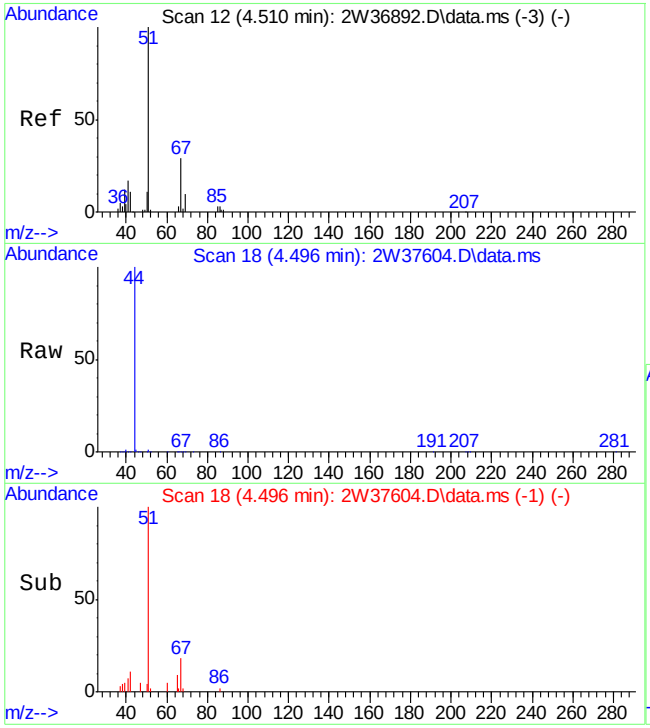


#3
DICHLORODIFLUOROMETHANE
Concen: 0.51 PPBV
RT: 4.594 min Scan# 34
Delta R.T. 0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 85 Resp: 40256

Ion	Ratio	Lower	Upper
85	100		
87	31.9	12.2	52.2
50	13.5	0.0	31.0

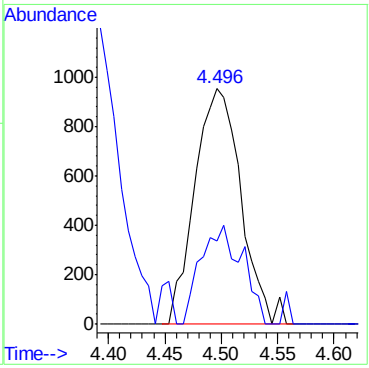


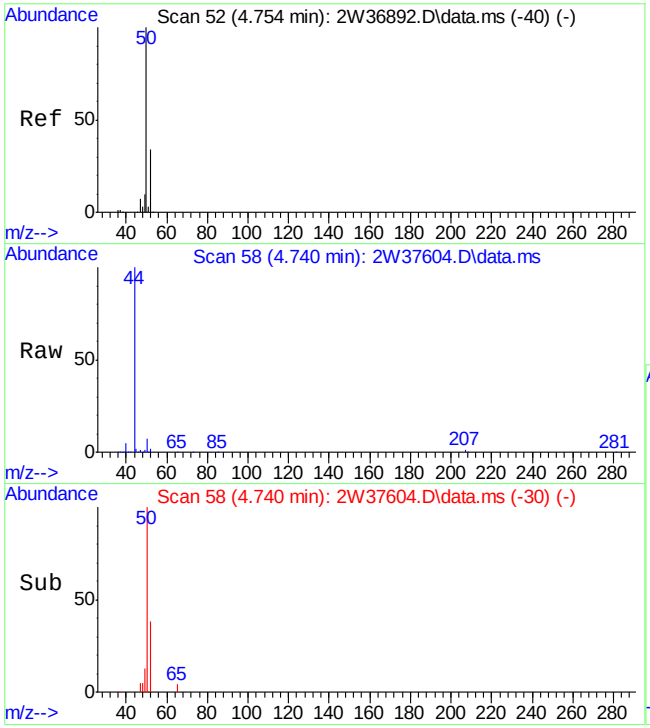


#5
CHLORODIFLUOROMETHANE
Concen: 0.33 PPBV
RT: 4.496 min Scan# 18
Delta R.T. 0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 67 Resp: 2713

Ion	Ratio	Lower	Upper
67	100		
69	37.8	13.0	53.0

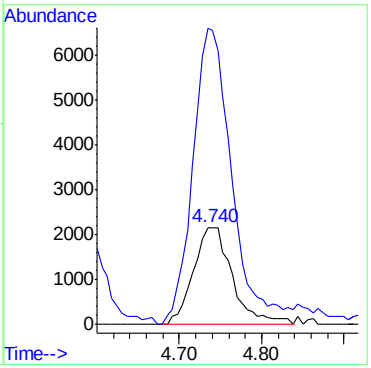


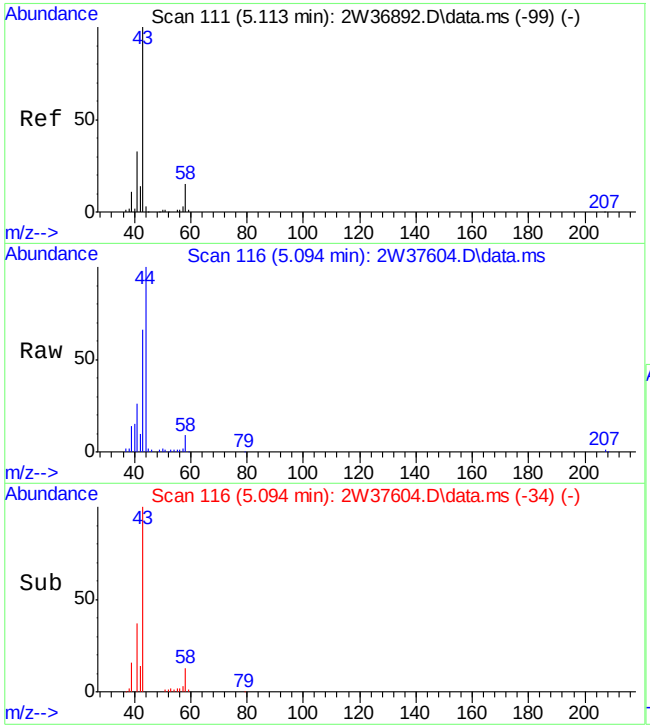


#8
CHLOROMETHANE
Concen: 0.89 PPBV
RT: 4.740 min Scan# 58
Delta R.T. 0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 52 Resp: 7126

Ion	Ratio	Lower	Upper
52	100		
50	295.3	288.4	328.4

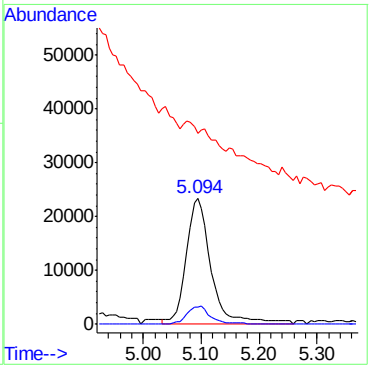


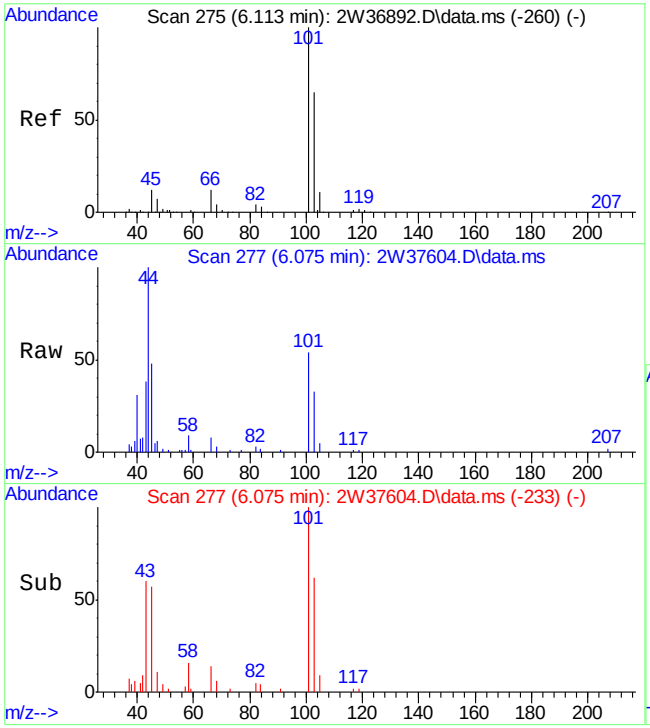


#11
n-BUTANE
Concen: 1.68 PPBV
RT: 5.094 min Scan# 116
Delta R.T. -0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 43 Resp: 69966

Ion	Ratio	Lower	Upper
43	100		
58	13.0	11.0	16.6
44	0.0	2.6	4.0#

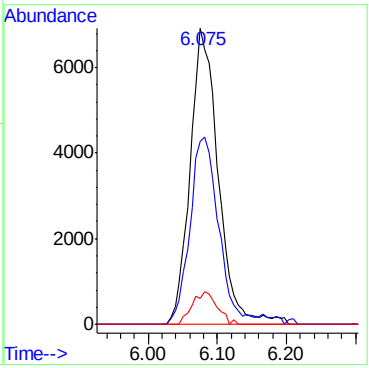


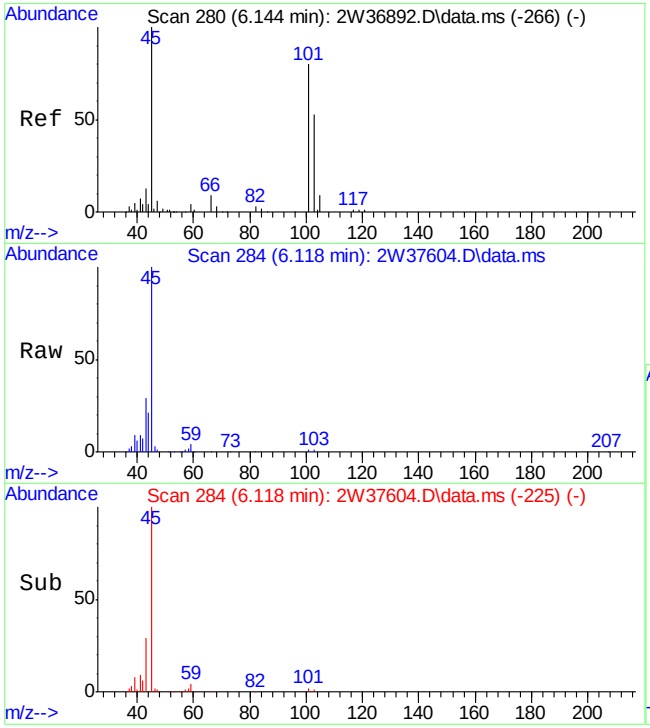


#18
TRICHLOROFLUOROMETHANE
Concen: 0.28 PPBV
RT: 6.075 min Scan# 277
Delta R.T. -0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion:101 Resp: 19619

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.4	84.4
105	9.7	0.0	30.2

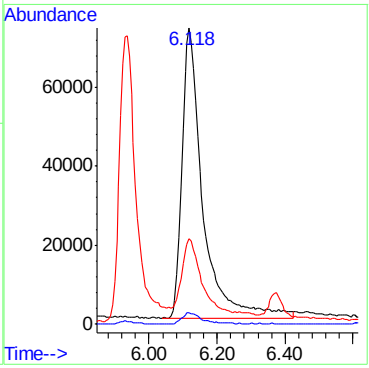


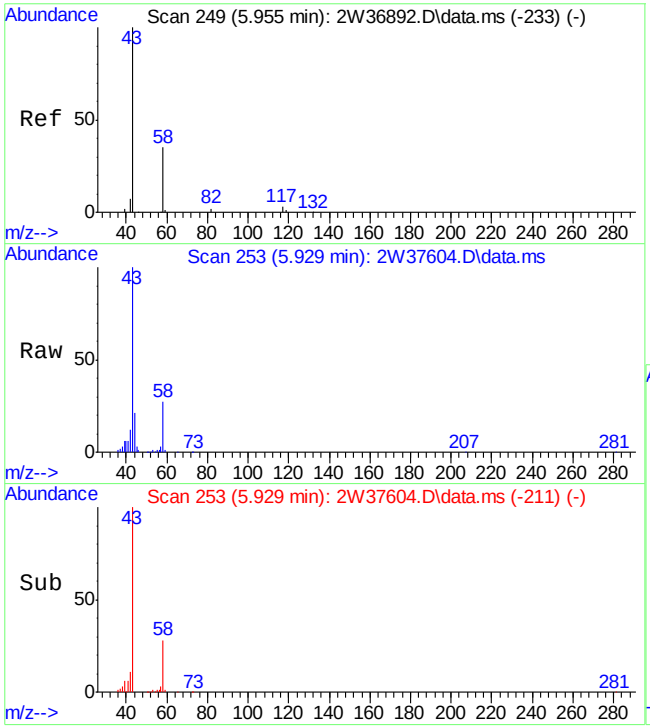


#19
ISOPROPYL ALCOHOL
Concen: 8.76 PPBV
RT: 6.118 min Scan# 284
Delta R.T. 0.012 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 45 Resp: 315127

Ion	Ratio	Lower	Upper
45	100		
59	3.9	0.0	24.3
43	29.0	1.0	41.0

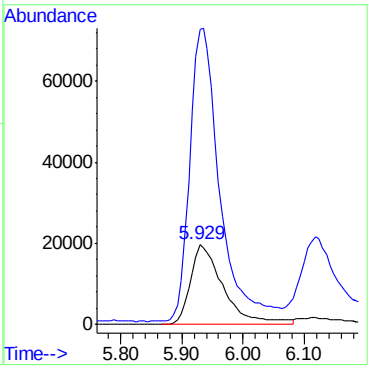


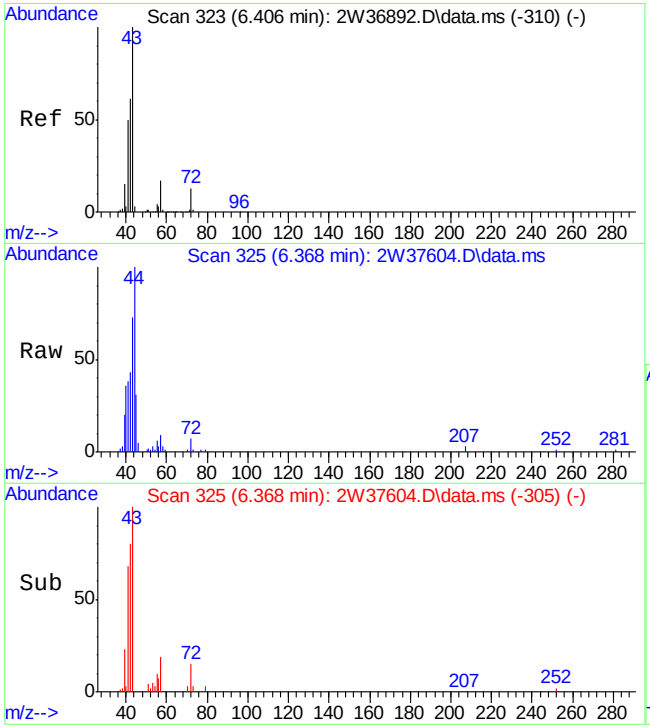


#20
ACETONE
Concen: 8.03 PPBV
RT: 5.929 min Scan# 253
Delta R.T. 0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 58 Resp: 73123

Ion	Ratio	Lower	Upper
58	100		
43	337.2	270.5	310.5#

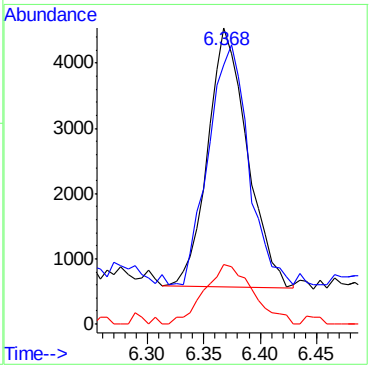


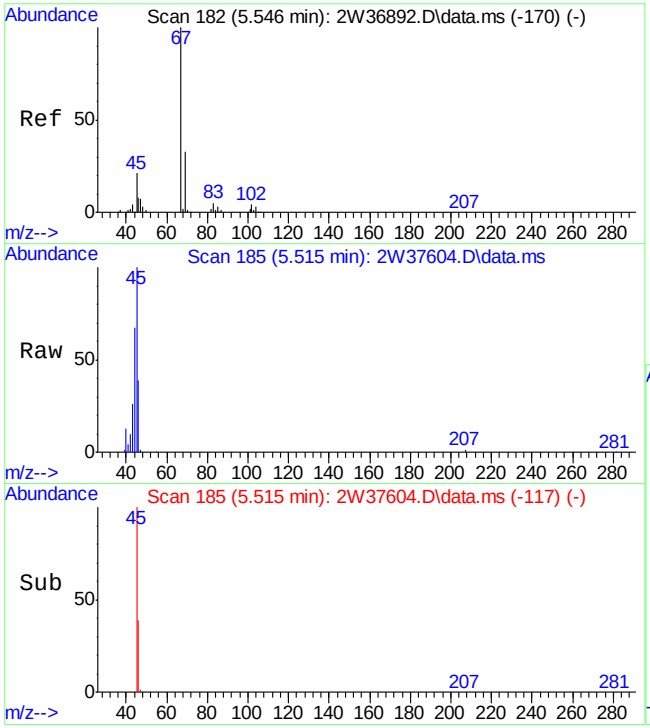


#21
PENTANE
Concen: 0.41 PPBV
RT: 6.368 min Scan# 325
Delta R.T. 0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 42 Resp: 9585

Ion	Ratio	Lower	Upper
42	100		
41	94.3	68.9	108.9
57	28.5	7.1	47.1

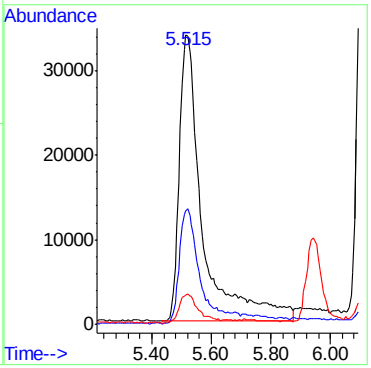


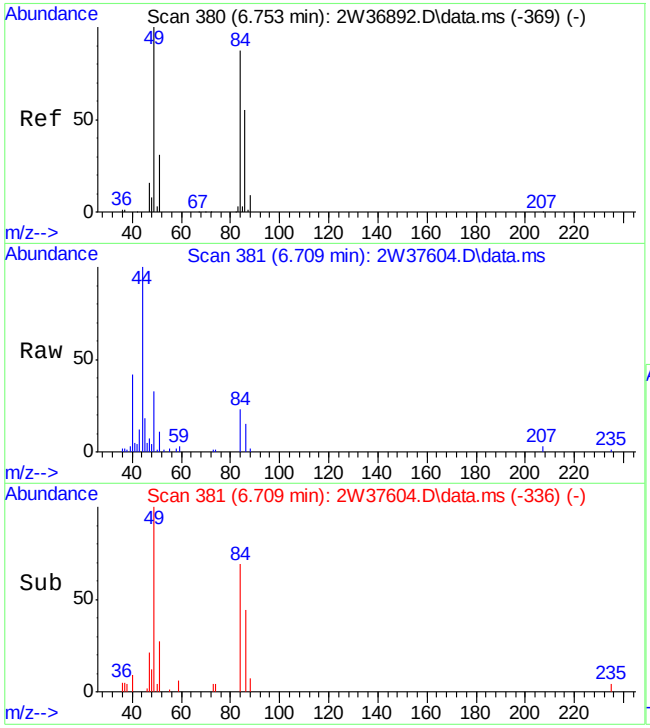


#27
ETHANOL
Concen: 24.88 PPBV
RT: 5.515 min Scan# 185
Delta R.T. 0.013 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 45 Resp: 184025

Ion	Ratio	Lower	Upper
45	100		
46	40.1	10.6	70.6
42	8.5	0.0	38.3

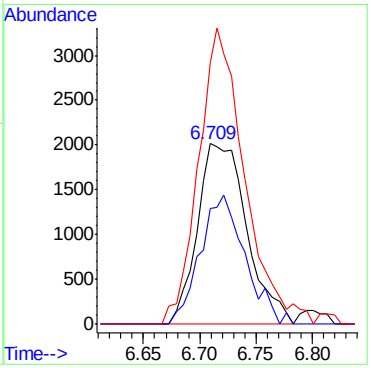


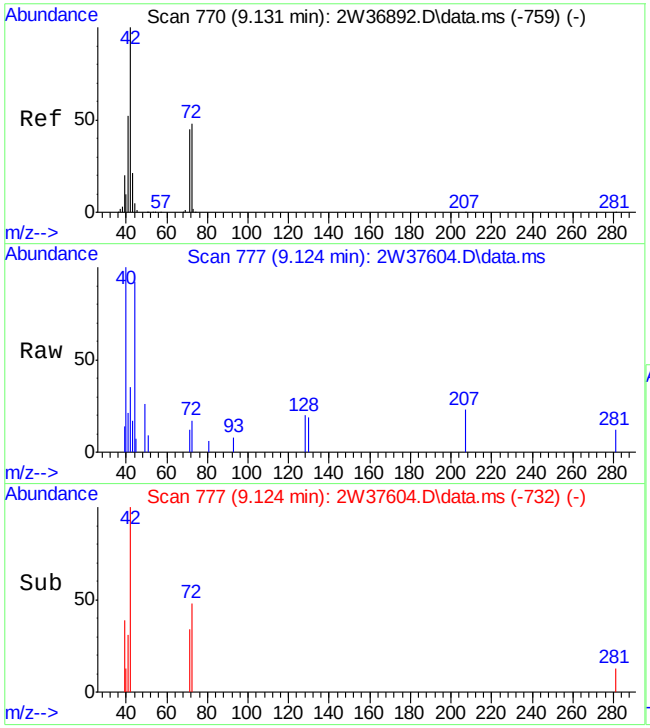


#30
METHYLENE CHLORIDE
Concen: 0.30 PPBV
RT: 6.709 min Scan# 381
Delta R.T. -0.007 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 84 Resp: 6123

Ion	Ratio	Lower	Upper
84	100		
86	64.6	44.9	84.9
49	153.0	0.0	335.2

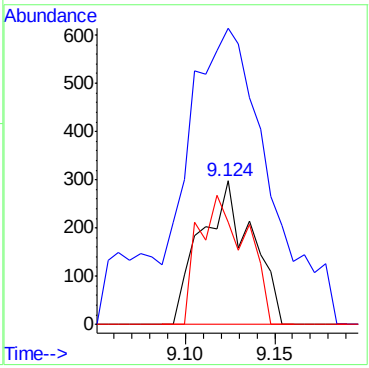


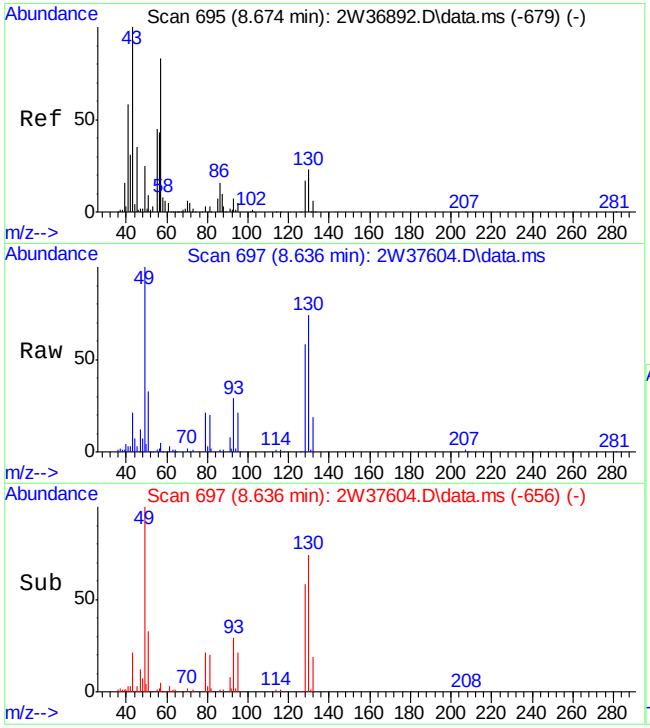


#36
TETRAHYDROFURAN
Concen: 0.07 PPBV
RT: 9.124 min Scan# 777
Delta R.T. 0.025 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 72 Resp: 591

Ion	Ratio	Lower	Upper
72	100		
42	320.3	211.9	251.9#
71	83.8	76.3	116.3

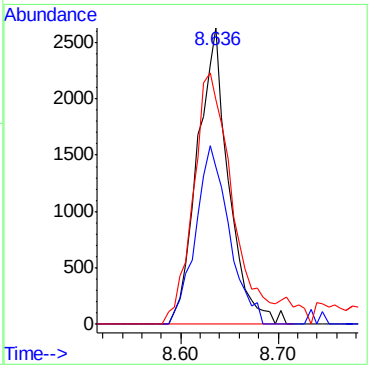


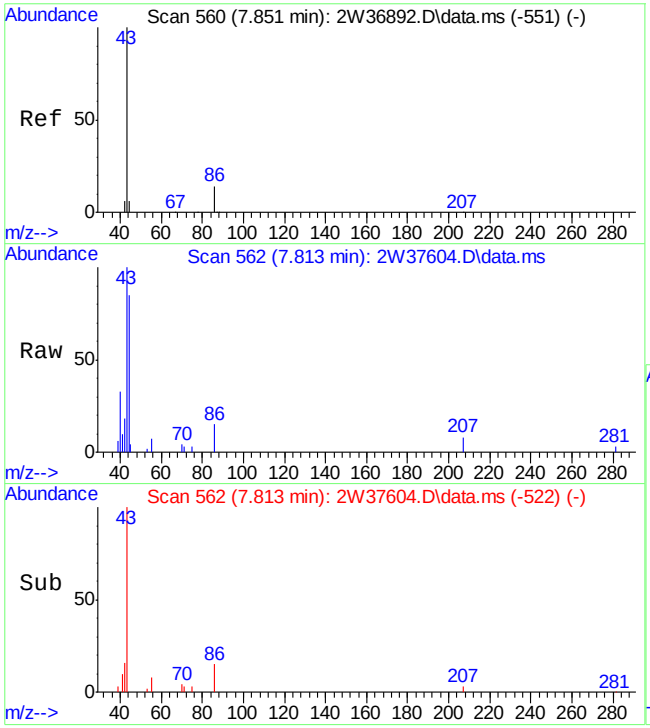


#37
HEXANE
Concen: 0.14 PPBV
RT: 8.636 min Scan# 697
Delta R.T. -0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 57 Resp: 5855

Ion	Ratio	Lower	Upper
57	100		
56	64.6	33.9	73.9
41	105.1	77.9	117.9

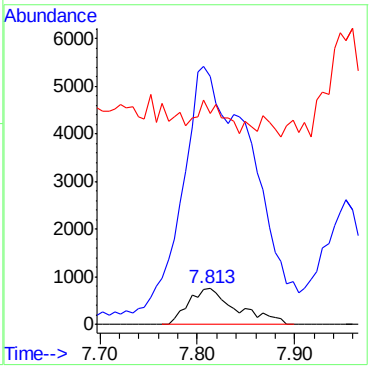


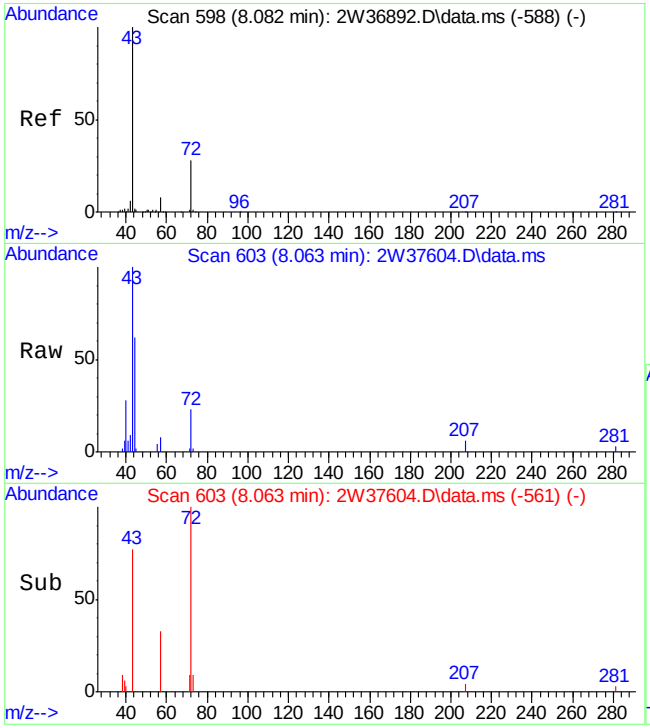


#38
VINYL ACETATE
Concen: 0.63 PPBV
RT: 7.813 min Scan# 562
Delta R.T. -0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 86 Resp: 2567

Ion	Ratio	Lower	Upper
86	100		
43	1005.5	1011.2	1051.2#
44	47.5	33.7	73.7

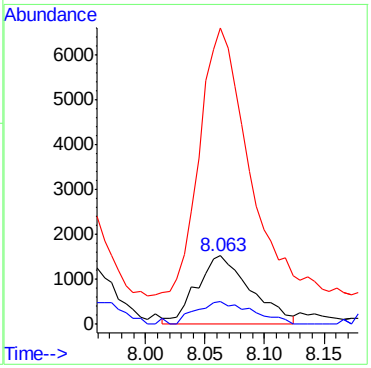


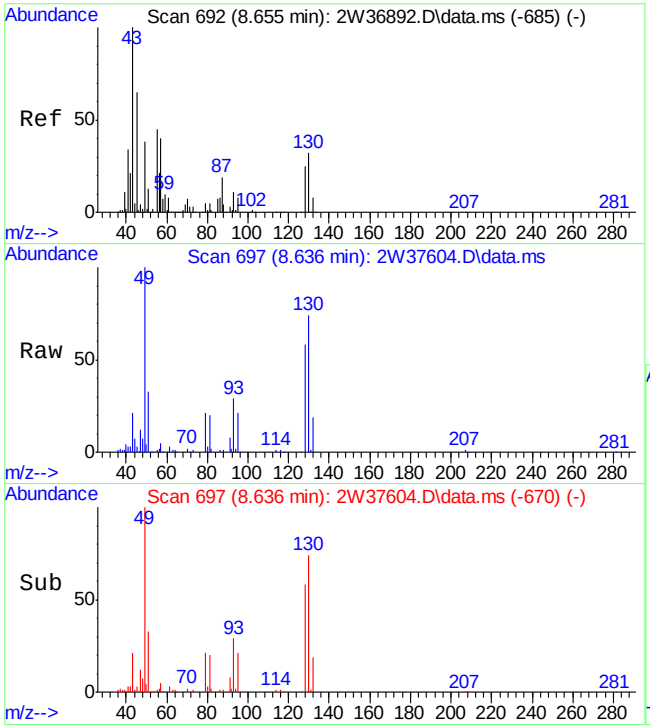


#40
METHYL ETHYL KETONE
Concen: 0.52 PPBV
RT: 8.063 min Scan# 603
Delta R.T. 0.012 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 72 Resp: 4796

Ion	Ratio	Lower	Upper
72	100		
57	33.0	14.2	54.2
43	432.8	395.6	435.6

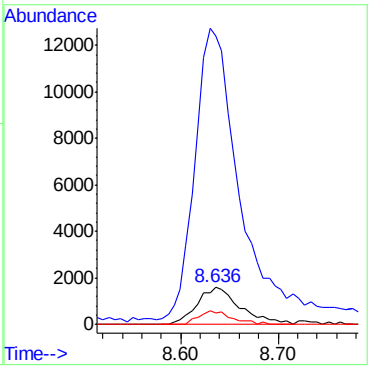


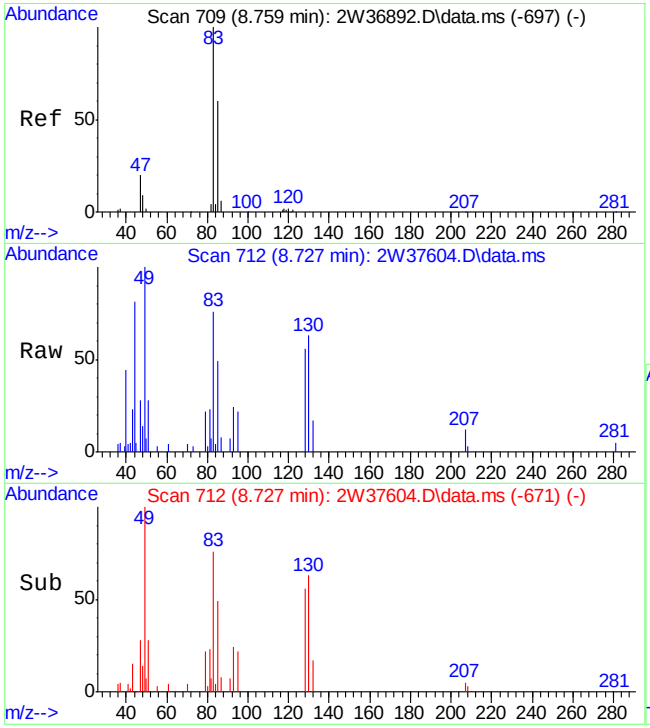


#42
ETHYL ACETATE
Concen: 0.82 PPBV
RT: 8.636 min Scan# 697
Delta R.T. 0.012 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 61 Resp: 4862

Ion	Ratio	Lower	Upper
61	100		
43	844.1	1612.5	1652.5#
88	27.7	19.8	59.8

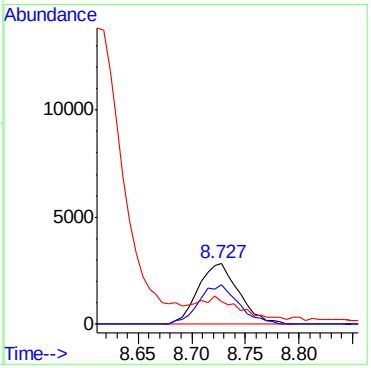


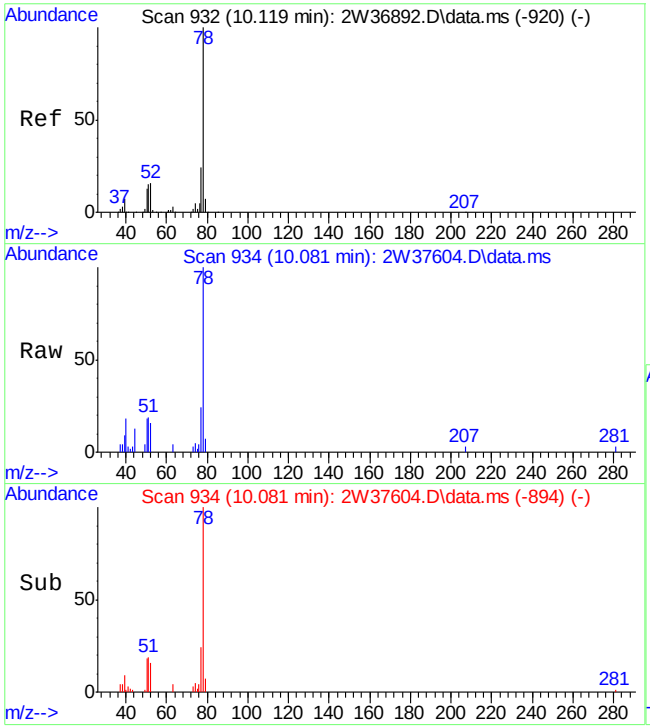


#44
CHLOROFORM
Concen: 0.15 PPBV
RT: 8.727 min Scan# 712
Delta R.T. 0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 83 Resp: 7459

Ion	Ratio	Lower	Upper
83	100		
85	62.9	44.6	84.6
47	47.3	5.0	45.0#

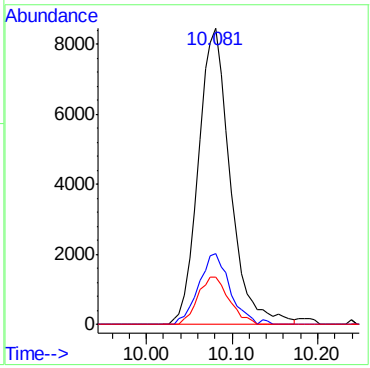


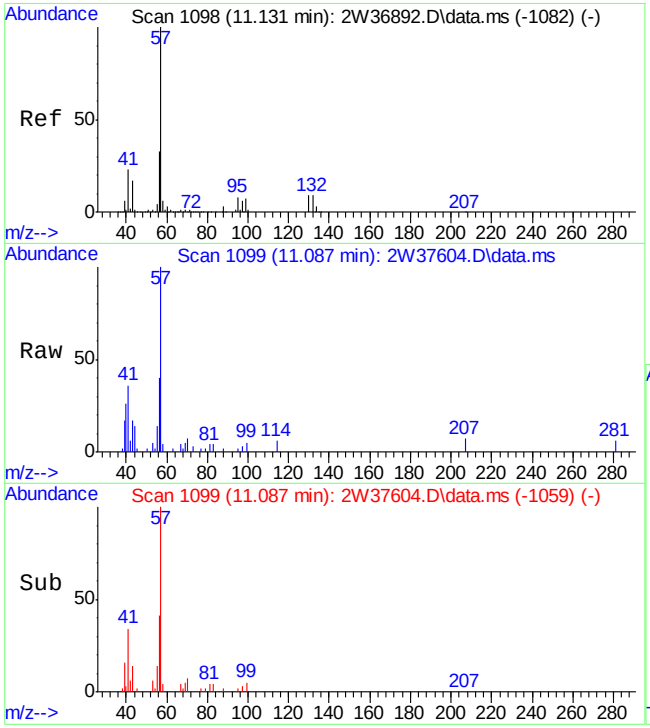


#50
BENZENE
Concen: 0.38 PPBV
RT: 10.081 min Scan# 934
Delta R.T. -0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 78 Resp: 21761

Ion	Ratio	Lower	Upper
78	100		
77	23.2	4.3	44.3
52	15.7	0.0	37.1

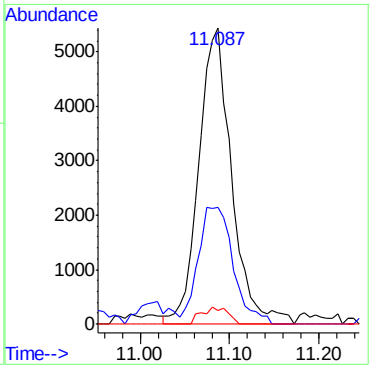


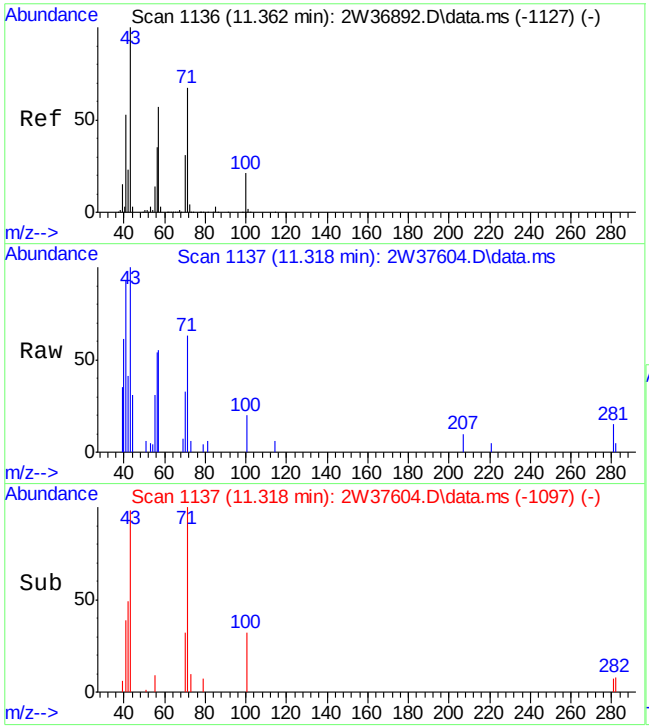


#58
2,2,4-TRIMETHYLPENTANE
Concen: 0.13 PPBV
RT: 11.087 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 57 Resp: 13843

Ion	Ratio	Lower	Upper
57	100		
56	42.2	11.7	51.7
99	4.5	0.0	27.7

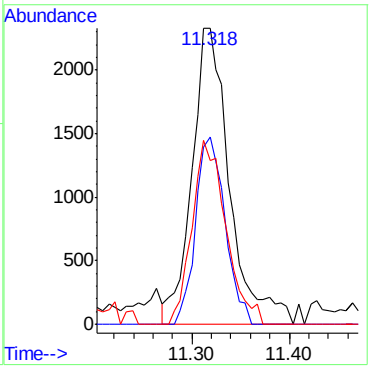


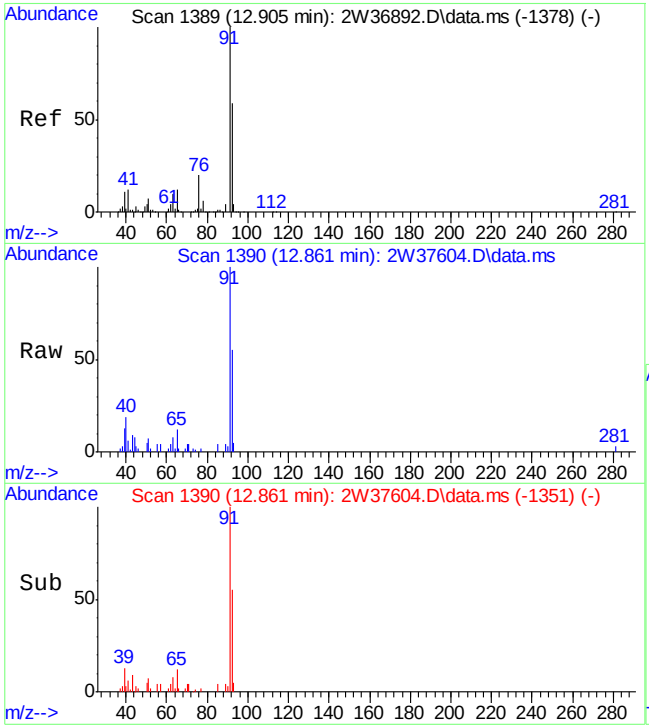


#61
HEPTANE
Concen: 0.16 PPBV
RT: 11.318 min Scan# 1137
Delta R.T. -0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 43 Resp: 6222

Ion	Ratio	Lower	Upper
43	100		
71	49.6	39.8	79.8
57	56.1	34.5	74.5

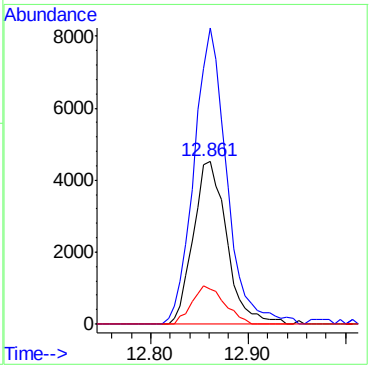


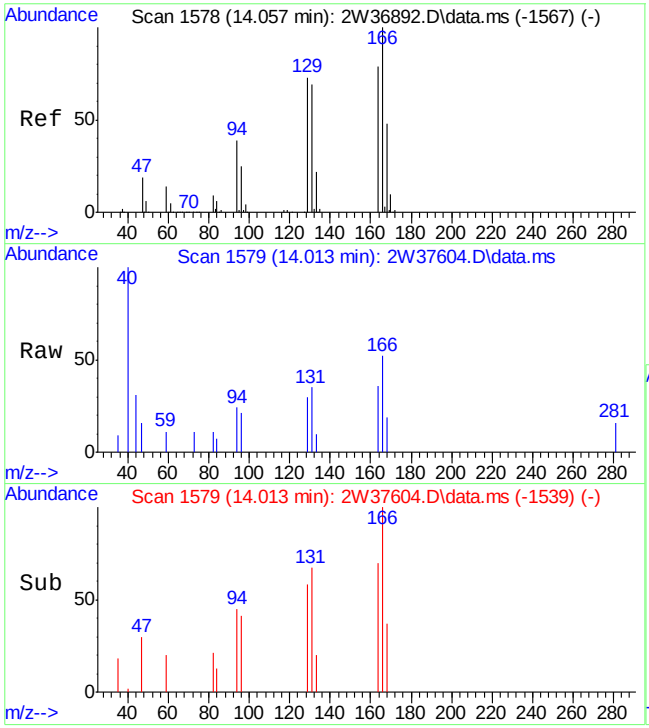


#65
TOLUENE
Concen: 0.29 PPBV
RT: 12.861 min Scan# 1390
Delta R.T. -0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 92 Resp: 10755

Ion	Ratio	Lower	Upper
92	100		
91	178.4	151.3	191.3
65	23.0	3.8	43.8

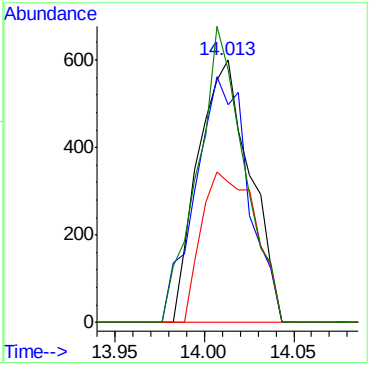


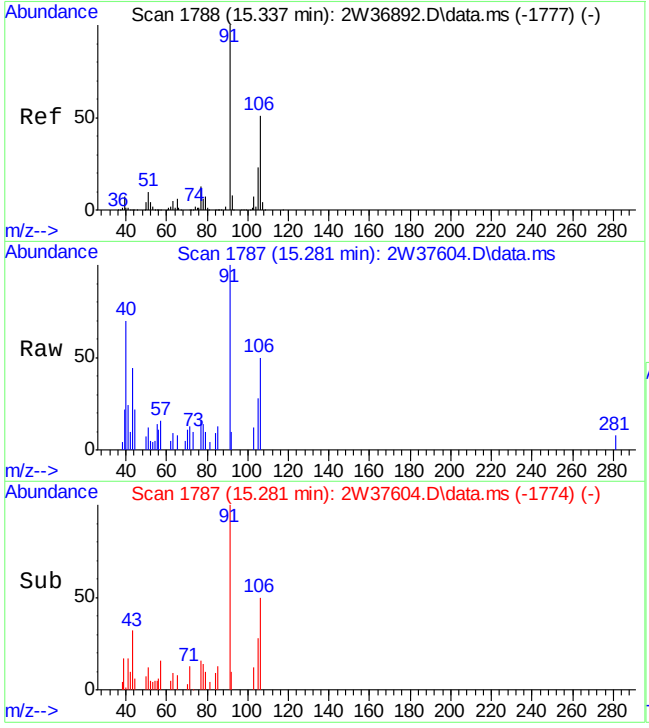


#71
TETRACHLOROETHYLENE
Concen: 0.04 PPBV
RT: 14.013 min Scan# 1579
Delta R.T. -0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion:164 Resp: 1219

Ion	Ratio	Lower	Upper
164	100		
129	94.8	72.7	112.7
168	59.6	41.8	81.8
131	100.7	69.2	109.2

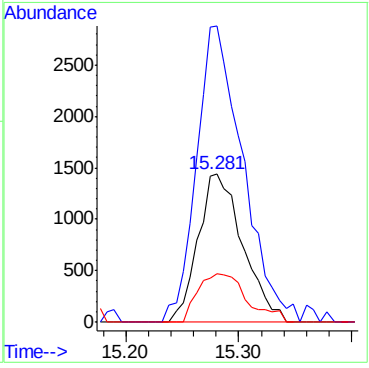


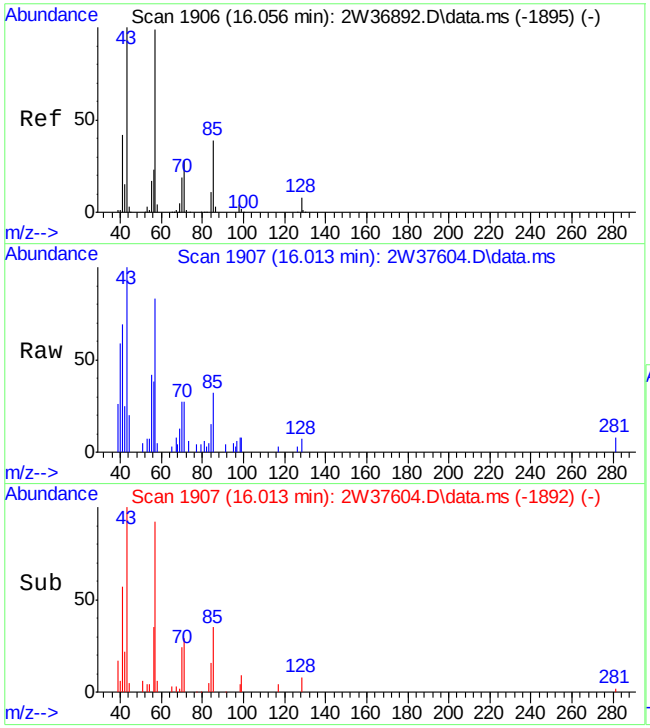


#78
m,p-XYLENE
Concen: 0.15 PPBV
RT: 15.281 min Scan# 1787
Delta R.T. -0.018 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion:106 Resp: 3966

Ion	Ratio	Lower	Upper
106	100		
91	200.6	164.8	247.2
77	33.1	22.3	33.5

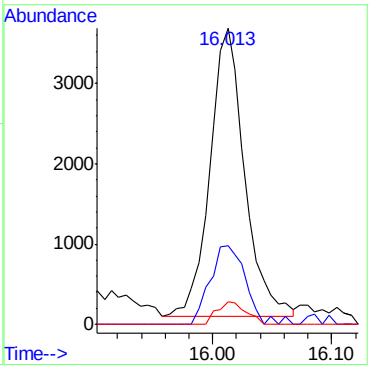


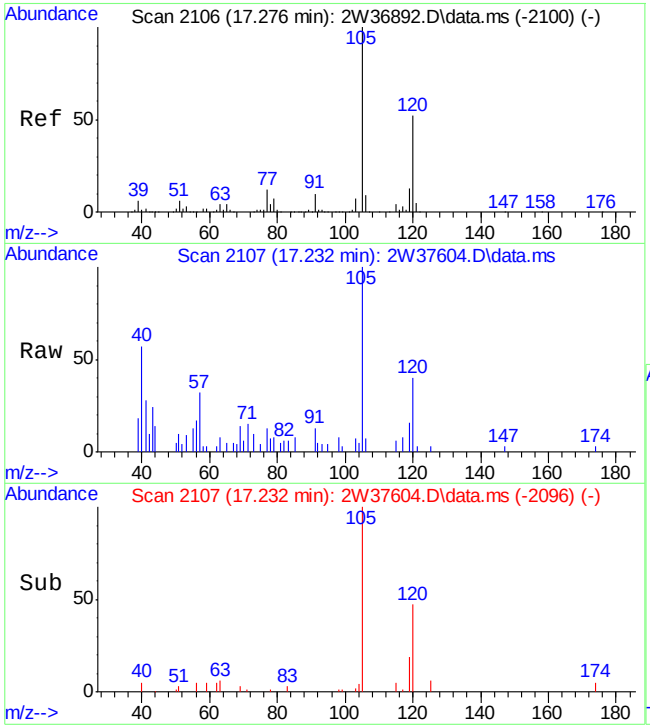


#81
NONANE
Concen: 0.19 PPBV
RT: 16.013 min Scan# 1907
Delta R.T. -0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion: 43 Resp: 7306

Ion	Ratio	Lower	Upper
43	100		
71	28.0	5.4	45.4
128	6.5	0.0	27.0

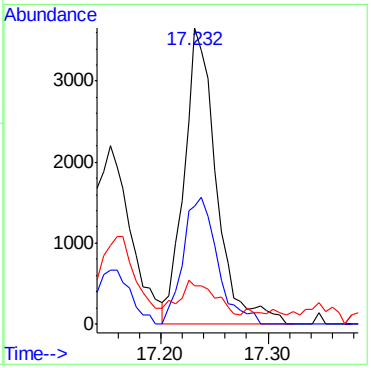


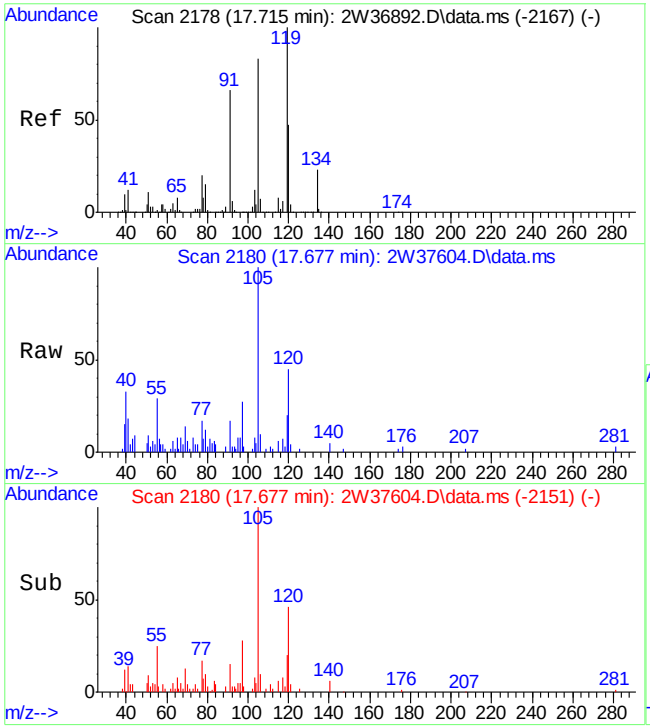


#90
1,3,5-TRIMETHYLBENZENE
Concen: 0.14 PPBV
RT: 17.232 min Scan# 2107
Delta R.T. -0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion:105 Resp: 7627

Ion	Ratio	Lower	Upper
105	100		
120	45.7	27.8	67.8
91	12.2	0.0	30.6

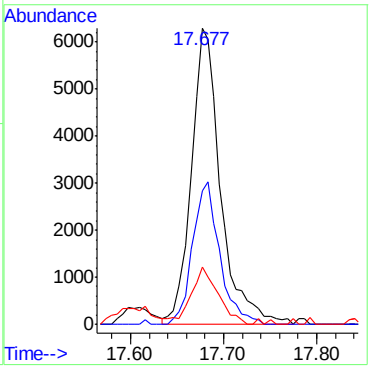




#93
1,2,4-TRIMETHYLBENZENE
Concen: 0.28 PPBV
RT: 17.677 min Scan# 2180
Delta R.T. -0.006 min
Lab File: 2W37604.D
Acq: 1 Mar 2013 5:35 am

Tgt Ion:105 Resp: 13752

Ion	Ratio	Lower	Upper
105	100		
120	44.8	34.7	74.7
119	17.9	95.9	135.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37605.D
Acq On : 1 Mar 2013 6:15 am
Operator : yunxiac
Sample : jb29729-5
Misc : MS43676,V2W1574,170,,,,1.7
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 10:00:57 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

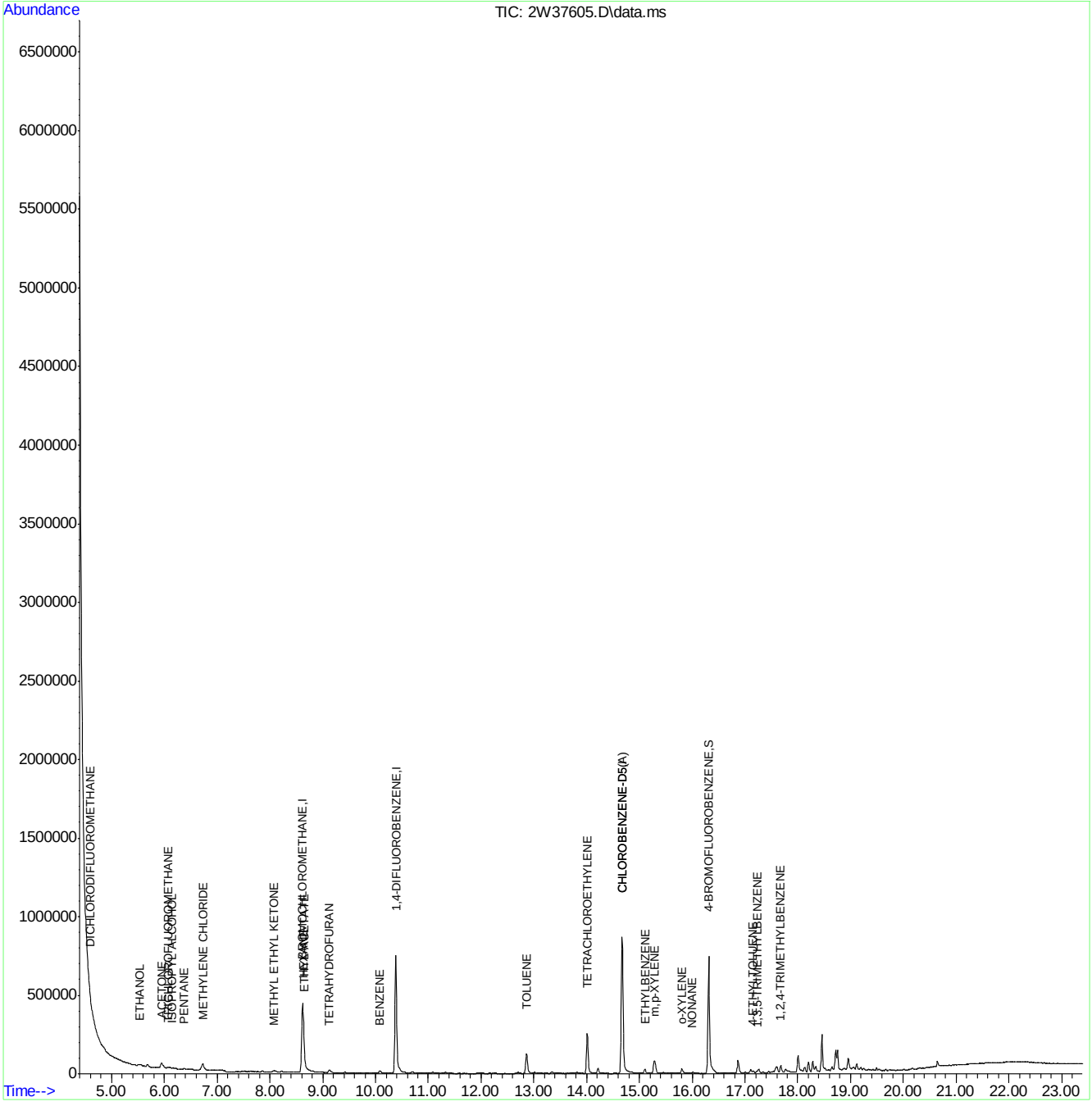
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.624	128	174914	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	747279	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	374793	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	374721	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	334769	8.77	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 87.70%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	11411	0.16	PPBV		97
18) TRICHLOROFLUOROMETHANE	6.076	101	8585	0.14	PPBV		100
19) ISOPROPYL ALCOHOL	6.143	45	10442	0.32	PPBV	#	44
20) ACETONE	5.954	58	14808	1.77	PPBV	#	37
21) PENTANE	6.374	42	2482	0.11	PPBV		89
27) ETHANOL	5.539	45	23872	3.52	PPBV		93
30) METHYLENE CHLORIDE	6.728	84	25189	1.33	PPBV		94
36) TETRAHYDROFURAN	9.124	72	5167	0.62	PPBV		91
37) HEXANE	8.636	57	7670	0.20	PPBV		92
40) METHYL ETHYL KETONE	8.075	72	5236	0.62	PPBV	#	69
42) ETHYL ACETATE	8.642	61	2381	0.44	PPBV	#	12
50) BENZENE	10.081	78	17615	0.34	PPBV		98
65) TOLUENE	12.861	92	67715	1.99	PPBV		99
71) TETRACHLOROETHYLENE	14.013	164	73056	2.62	PPBV		99
77) ETHYLBENZENE	15.104	91	25637	0.39	PPBV		96
78) m,p-XYLENE	15.287	106	35936	1.46	PPBV		95
79) o-XYLENE	15.805	106	10566	0.44	PPBV		95
81) NONANE	16.007	43	3313	0.10	PPBV		89
89) 4-ETHYLTOLUENE	17.153	105	6761	0.13	PPBV		94
90) 1,3,5-TRIMETHYLBENZENE	17.232	105	6572	0.13	PPBV		96
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	22070	0.50	PPBV	#	34

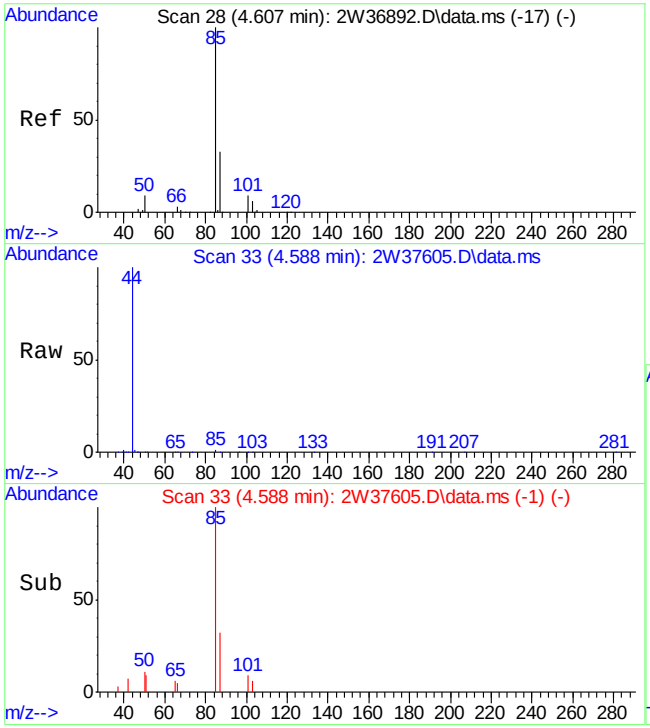
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37605.D
Acq On : 1 Mar 2013 6:15 am
Operator : yunxiac
Sample : jb29729-5
Misc : MS43676,V2W1574,170,,,,1.7
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 10:00:57 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

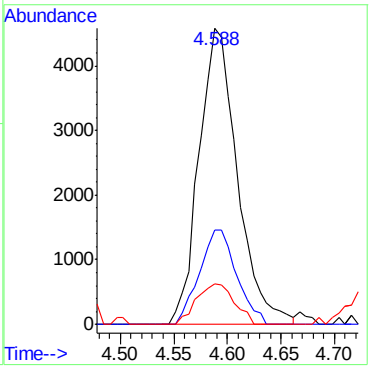


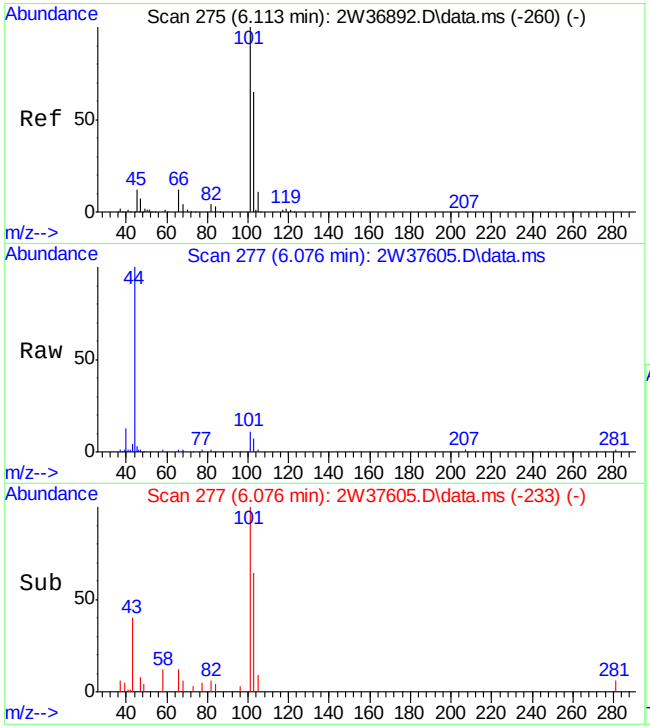


#3
DICHLORODIFLUOROMETHANE
Concen: 0.16 PPBV
RT: 4.588 min Scan# 33
Delta R.T. -0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 85 Resp: 11411

Ion	Ratio	Lower	Upper
85	100		
87	30.9	12.2	52.2
50	13.4	0.0	31.0

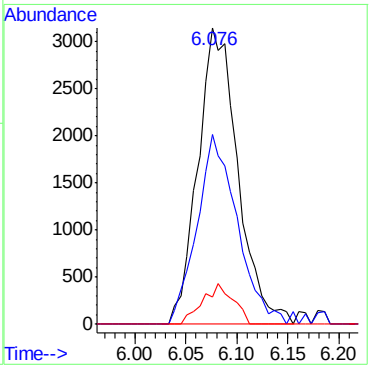


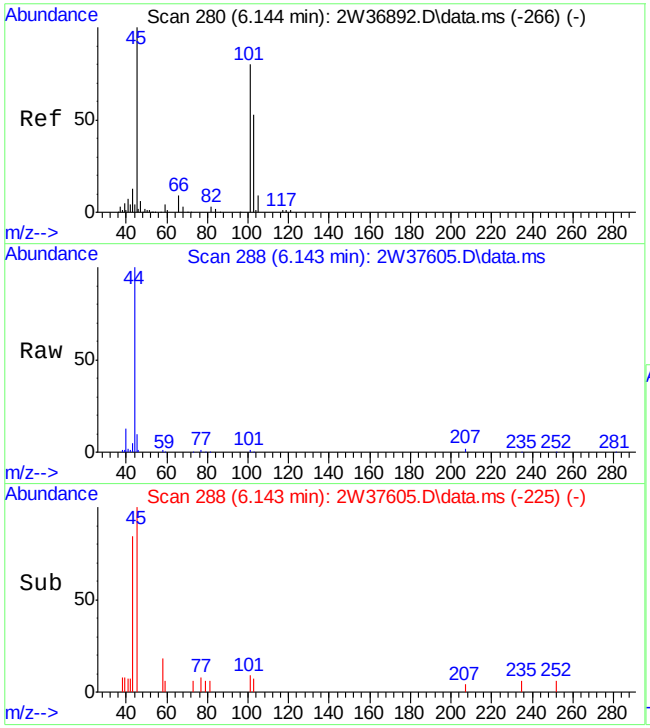


#18
TRICHLOROFLUOROMETHANE
Concen: 0.14 PPBV
RT: 6.076 min Scan# 277
Delta R.T. -0.005 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion:101 Resp: 8585

Ion	Ratio	Lower	Upper
101	100		
103	64.2	44.4	84.4
105	10.4	0.0	30.2

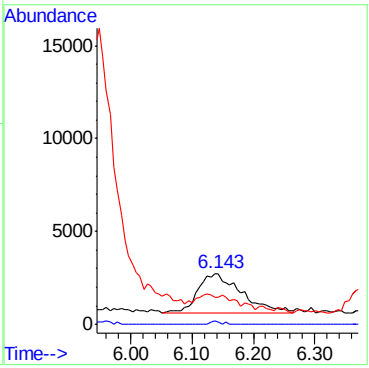


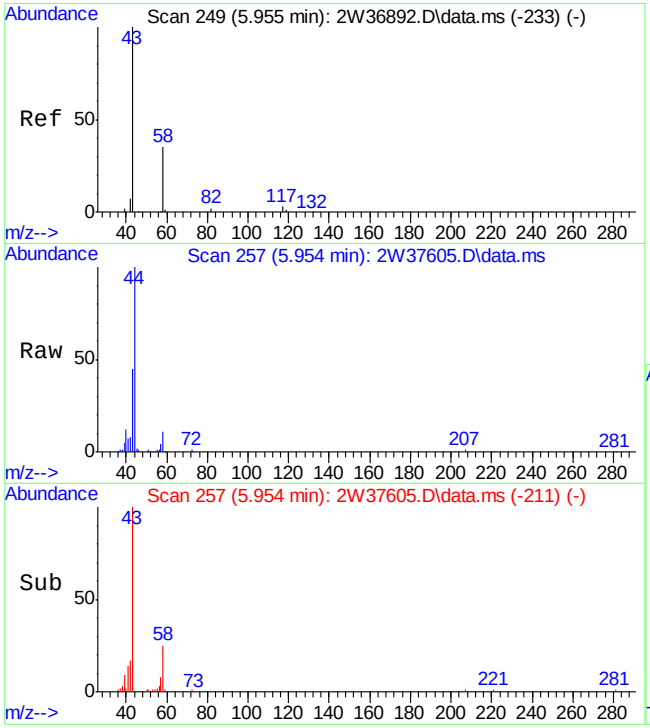


#19
ISOPROPYL ALCOHOL
Concen: 0.32 PPBV
RT: 6.143 min Scan# 288
Delta R.T. 0.037 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 45 Resp: 10442

Ion	Ratio	Lower	Upper
45	100		
59	3.7	0.0	24.3
43	52.5	1.0	41.0#

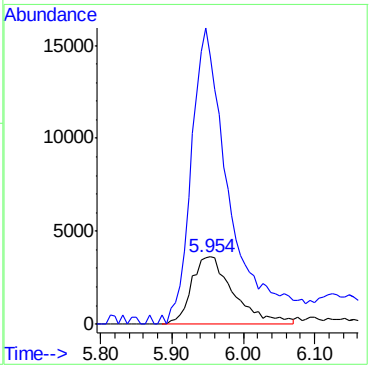


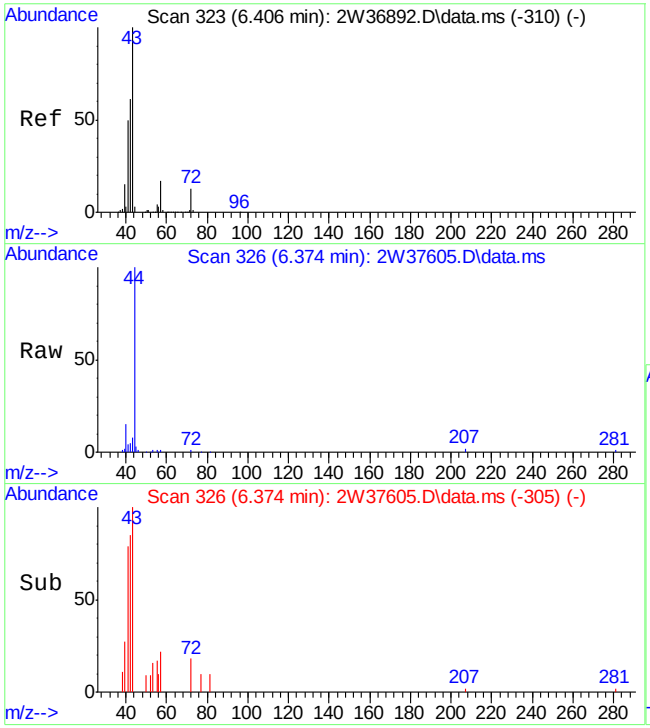


#20
ACETONE
Concen: 1.77 PPBV
RT: 5.954 min Scan# 257
Delta R.T. 0.031 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 58 Resp: 14808

Ion	Ratio	Lower	Upper
58	100		
43	412.1	270.5	310.5#

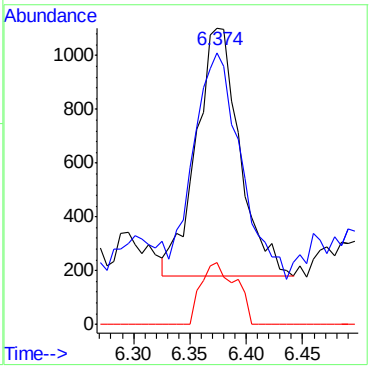


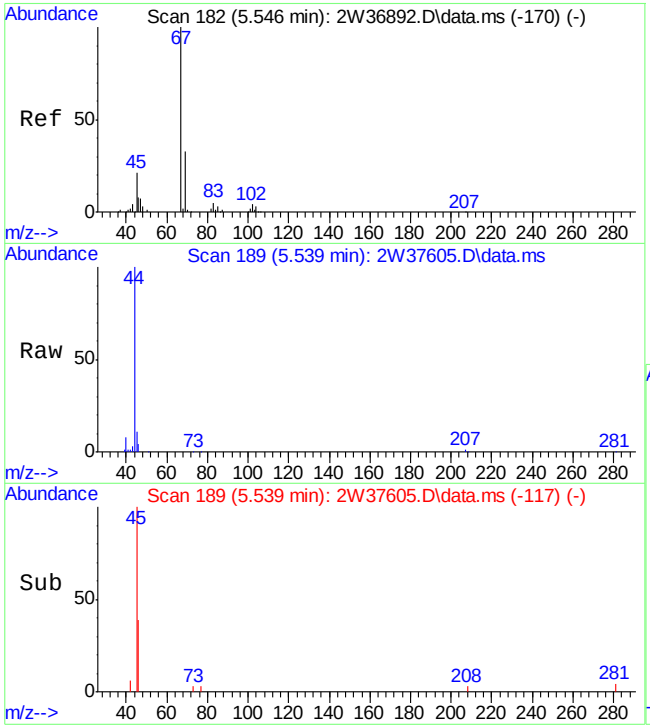


#21
PENTANE
Concen: 0.11 PPBV
RT: 6.374 min Scan# 326
Delta R.T. 0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 42 Resp: 2482

Ion	Ratio	Lower	Upper
42	100		
41	98.7	68.9	108.9
57	19.9	7.1	47.1

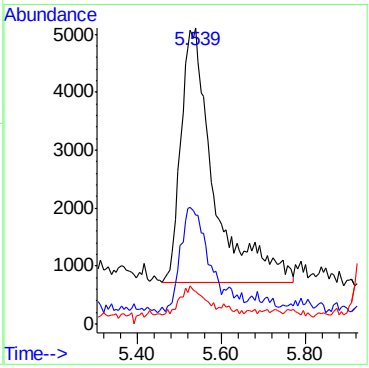


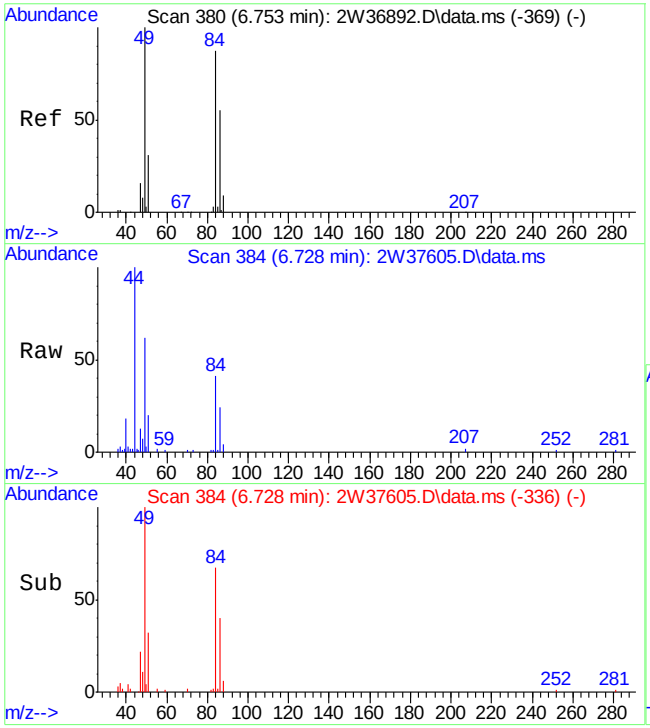


#27
ETHANOL
Concen: 3.52 PPBV
RT: 5.539 min Scan# 189
Delta R.T. 0.037 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 45 Resp: 23872

Ion	Ratio	Lower	Upper
45	100		
46	35.4	10.6	70.6
42	8.5	0.0	38.3

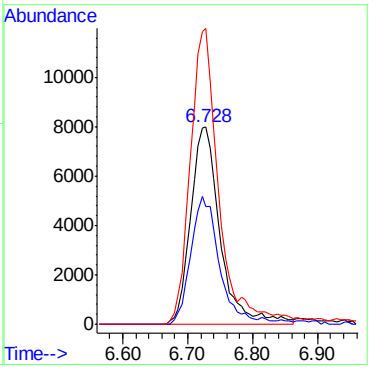


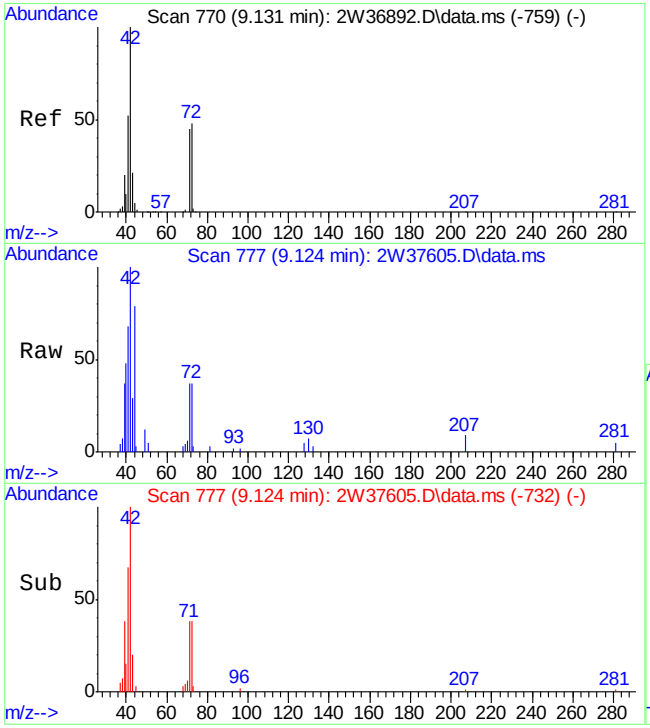


#30
METHYLENE CHLORIDE
Concen: 1.33 PPBV
RT: 6.728 min Scan# 384
Delta R.T. 0.012 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 84 Resp: 25189

Ion	Ratio	Lower	Upper
84	100		
86	64.0	44.9	84.9
49	145.5	0.0	335.2

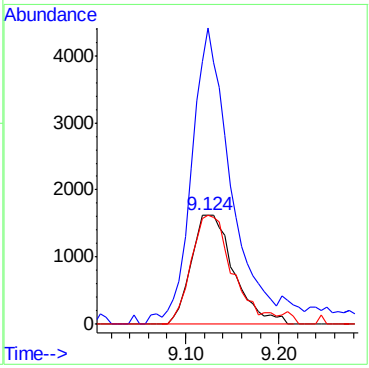


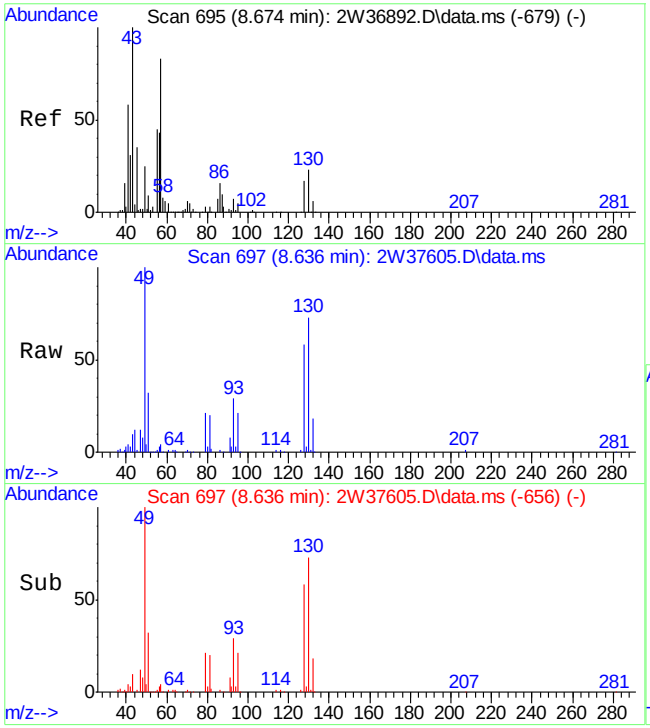


#36
TETRAHYDROFURAN
Concen: 0.62 PPBV
RT: 9.124 min Scan# 777
Delta R.T. 0.025 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 72 Resp: 5167

Ion	Ratio	Lower	Upper
72	100		
42	249.6	211.9	251.9
71	100.8	76.3	116.3

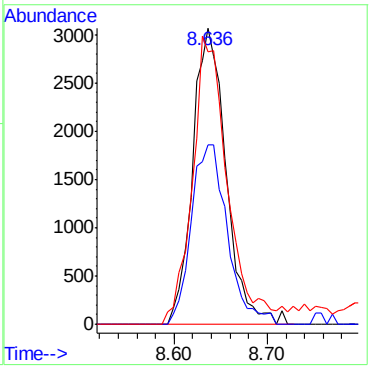


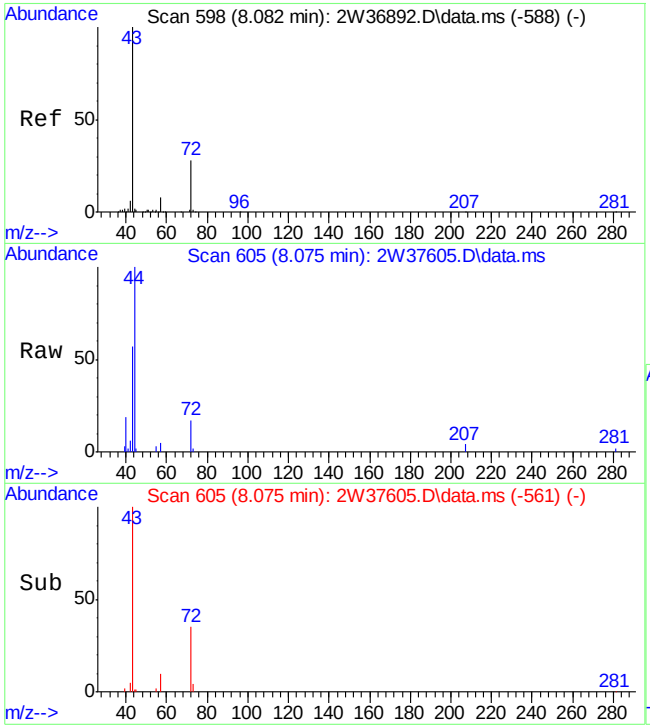


#37
HEXANE
Concen: 0.20 PPBV
RT: 8.636 min Scan# 697
Delta R.T. 0.000 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 57 Resp: 7670

Ion	Ratio	Lower	Upper
57	100		
56	65.6	33.9	73.9
41	101.9	77.9	117.9

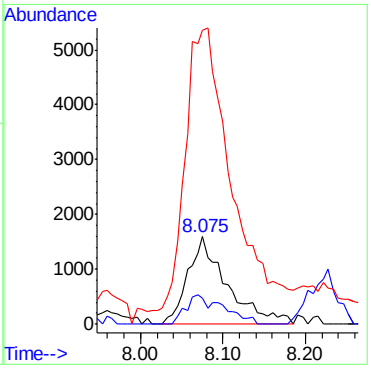


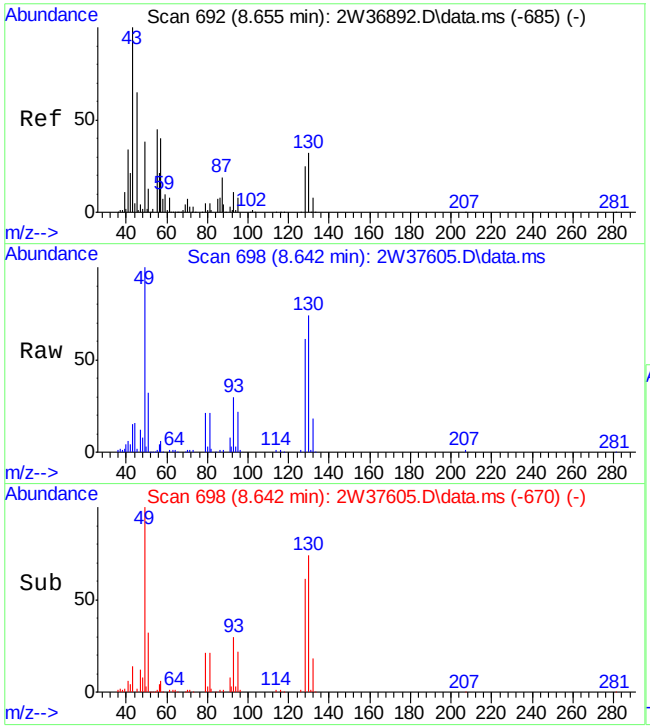


#40
METHYL ETHYL KETONE
Concen: 0.62 PPBV
RT: 8.075 min Scan# 605
Delta R.T. 0.024 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 72 Resp: 5236

Ion	Ratio	Lower	Upper
72	100		
57	29.9	14.2	54.2
43	336.4	395.6	435.6#

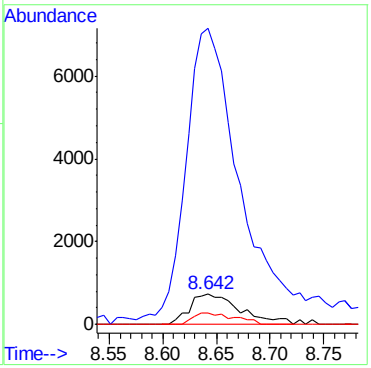


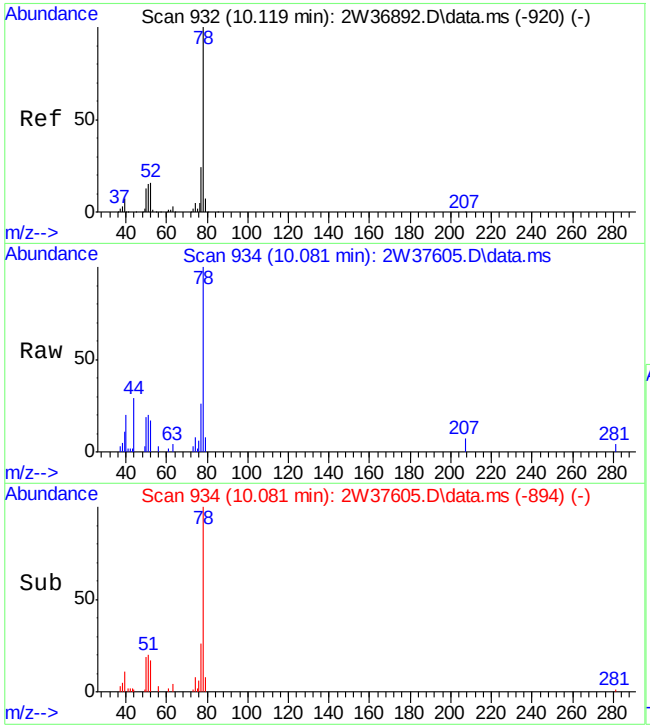


#42
ETHYL ACETATE
Concen: 0.44 PPBV
RT: 8.642 min Scan# 698
Delta R.T. 0.018 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 61 Resp: 2381

Ion	Ratio	Lower	Upper
61	100		
43	1059.4	1612.5	1652.5#
88	30.4	19.8	59.8

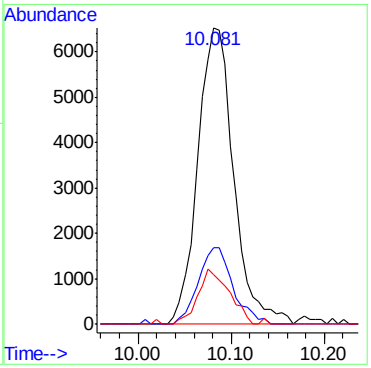


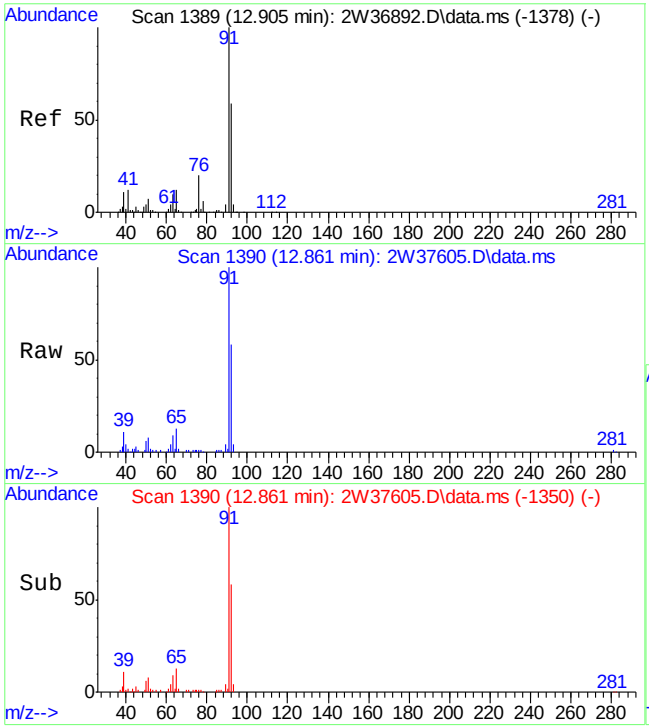


#50
BENZENE
Concen: 0.34 PPBV
RT: 10.081 min Scan# 934
Delta R.T. -0.000 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 78 Resp: 17615

Ion	Ratio	Lower	Upper
78	100		
77	25.0	4.3	44.3
52	16.1	0.0	37.1

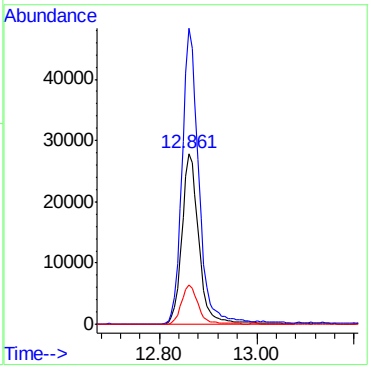


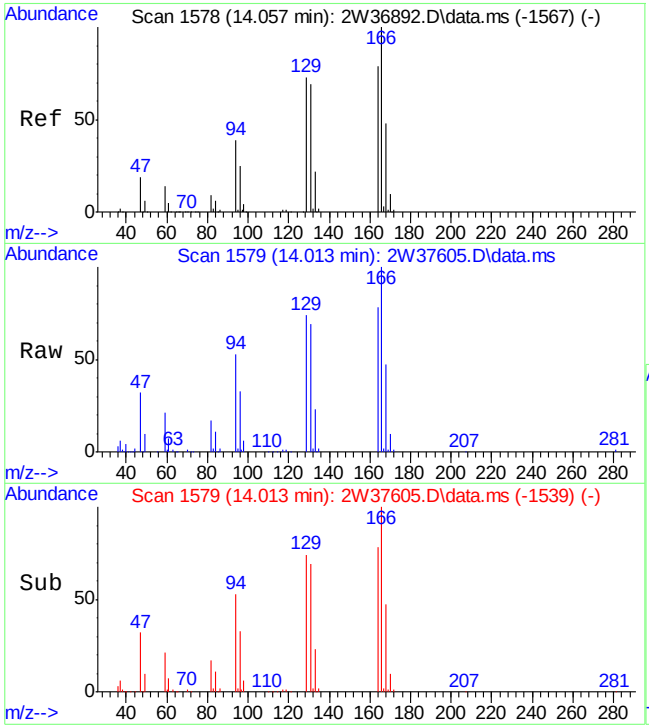


#65
TOLUENE
Concen: 1.99 PPBV
RT: 12.861 min Scan# 1390
Delta R.T. -0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 92 Resp: 67715

Ion	Ratio	Lower	Upper
92	100		
91	170.3	151.3	191.3
65	22.4	3.8	43.8

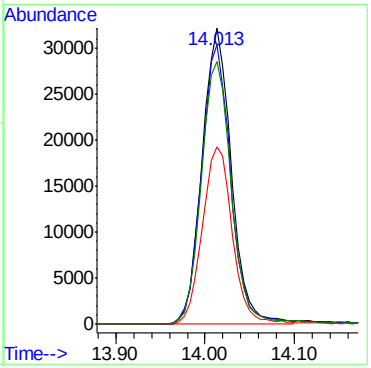


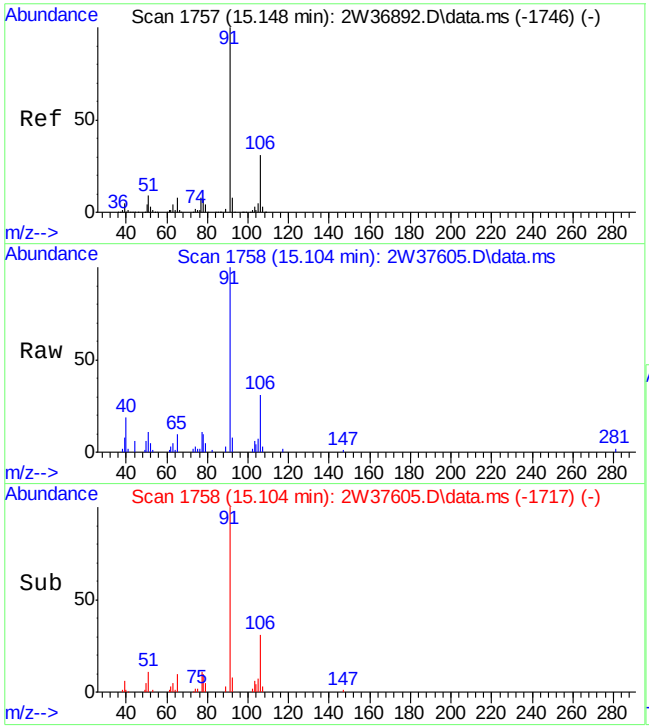


#71
TETRACHLOROETHYLENE
Concen: 2.62 PPBV
RT: 14.013 min Scan# 1579
Delta R.T. -0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion:164 Resp: 73056

Ion	Ratio	Lower	Upper
164	100		
129	93.9	72.7	112.7
168	61.6	41.8	81.8
131	90.8	69.2	109.2

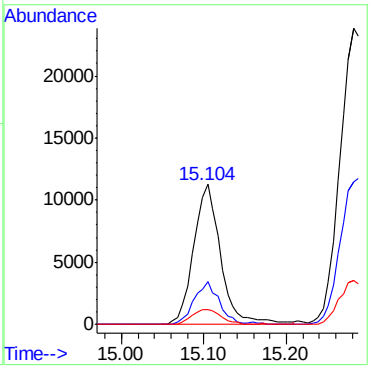


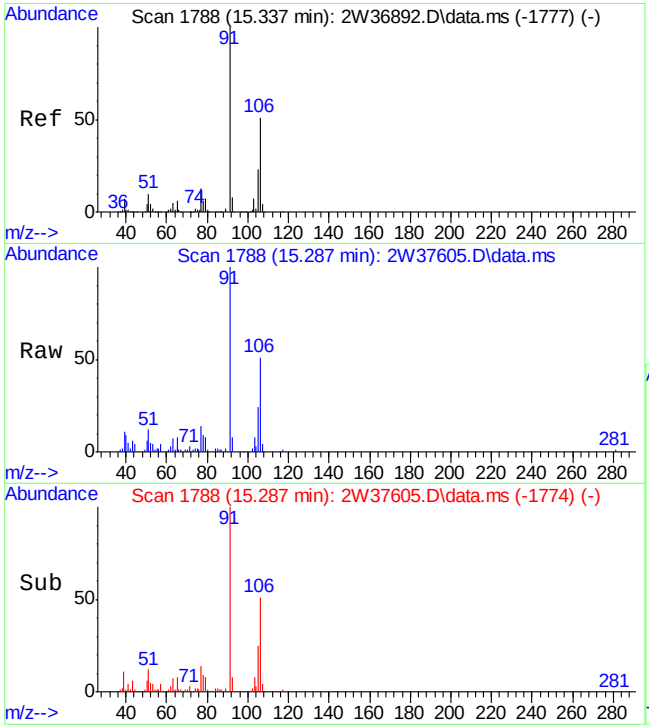


#77
ETHYLBENZENE
Concen: 0.39 PPBV
RT: 15.104 min Scan# 1758
Delta R.T. 0.000 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 91 Resp: 25637

Ion	Ratio	Lower	Upper
91	100		
106	28.2	10.4	50.4
77	11.1	0.0	28.9

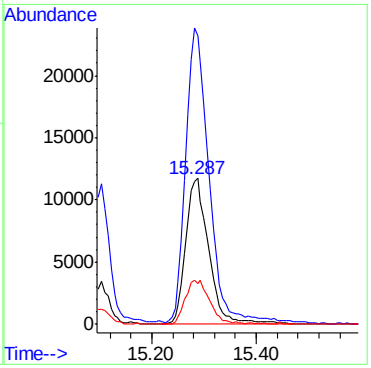


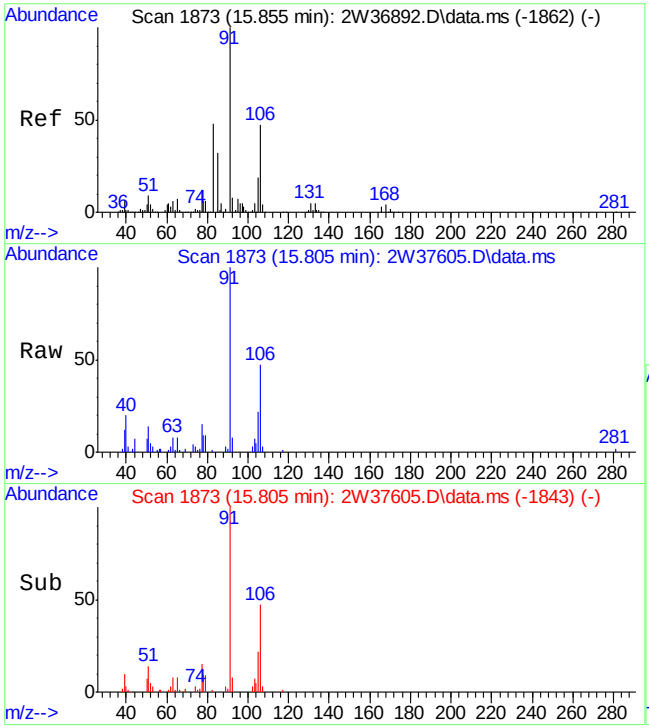


#78
m,p-XYLENE
Concen: 1.46 PPBV
RT: 15.287 min Scan# 1788
Delta R.T. -0.012 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion:106 Resp: 35936

Ion	Ratio	Lower	Upper
106	100		
91	197.7	164.8	247.2
77	27.7	22.3	33.5

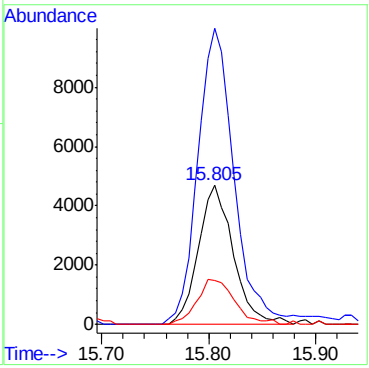


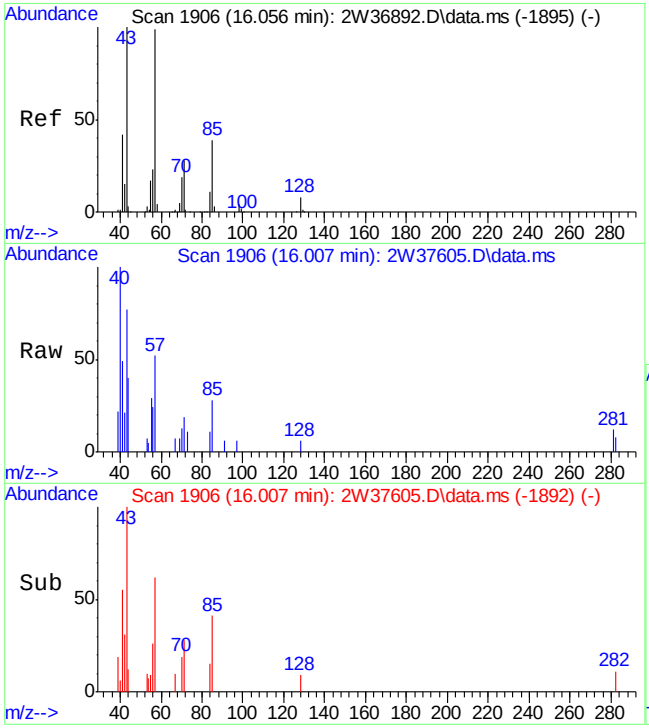


#79
o-XYLENE
Concen: 0.44 PPBV
RT: 15.805 min Scan# 1873
Delta R.T. -0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion:106 Resp: 10566

Ion	Ratio	Lower	Upper
106	100		
91	226.7	201.0	241.0
77	35.1	8.1	48.1

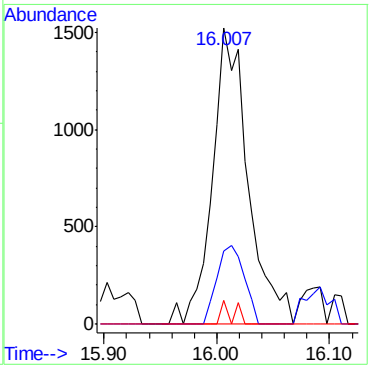


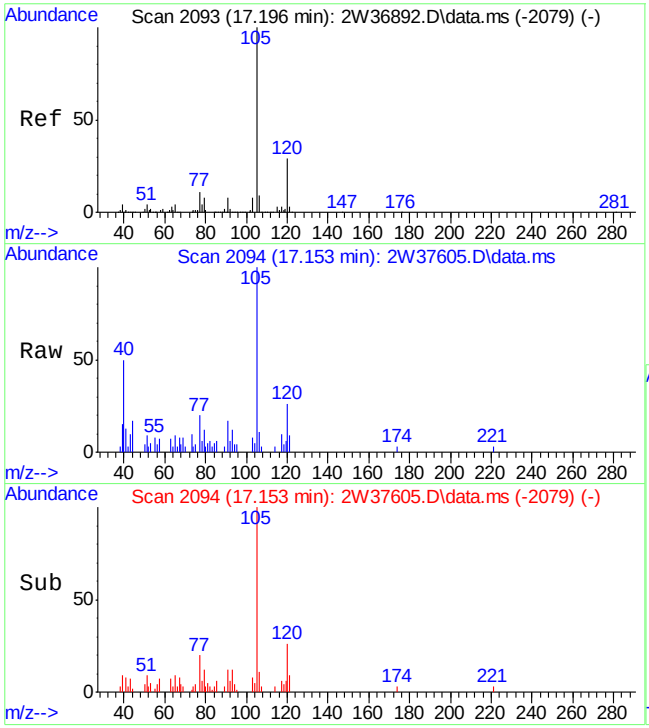


#81
NONANE
Concen: 0.10 PPBV
RT: 16.007 min Scan# 1906
Delta R.T. -0.012 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion: 43 Resp: 3313

Ion	Ratio	Lower	Upper
43	100		
71	20.4	5.4	45.4
128	2.6	0.0	27.0

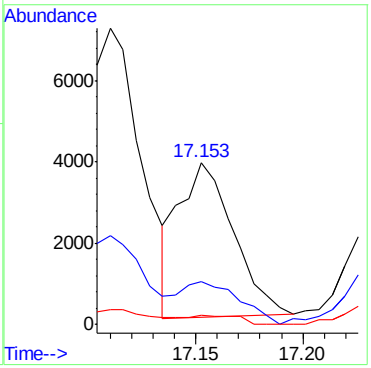


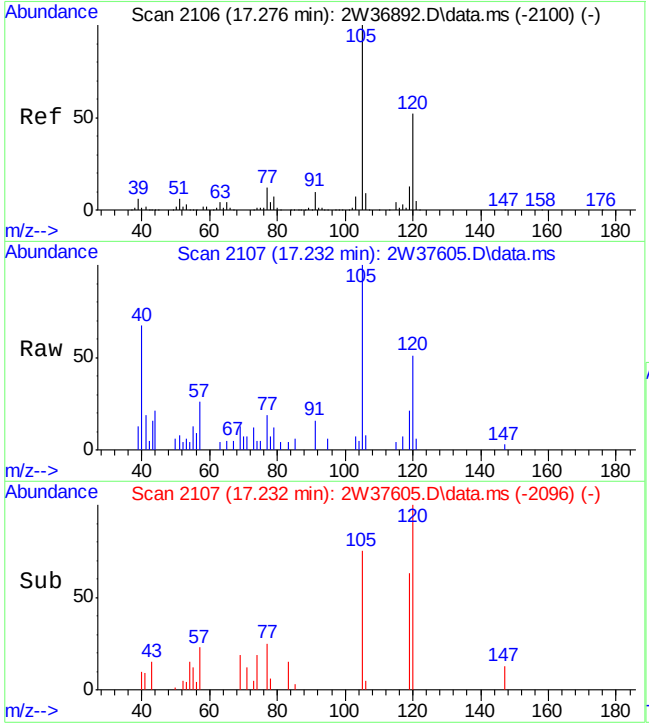


#89
4-ETHYLTOLUENE
Concen: 0.13 PPBV
RT: 17.153 min Scan# 2094
Delta R.T. -0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion:105 Resp: 6761

Ion	Ratio	Lower	Upper
105	100		
120	31.0	8.2	48.2
119	5.2	0.0	22.3

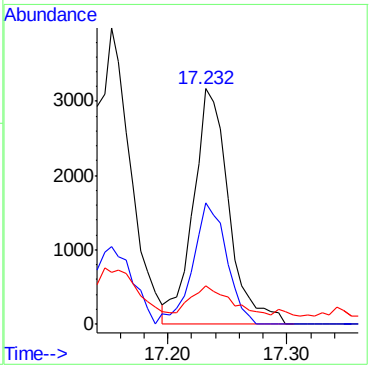


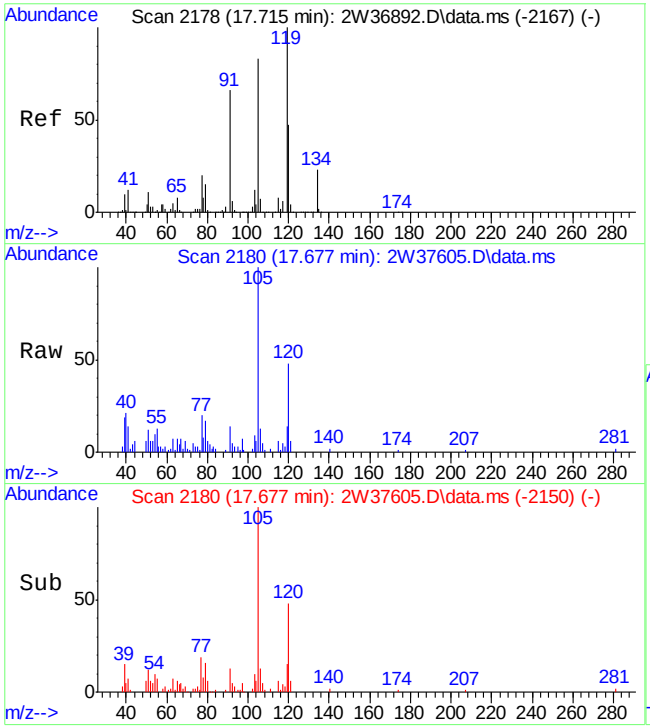


#90
1,3,5-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 17.232 min Scan# 2107
Delta R.T. -0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion:105 Resp: 6572

Ion	Ratio	Lower	Upper
105	100		
120	49.0	27.8	67.8
91	15.3	0.0	30.6

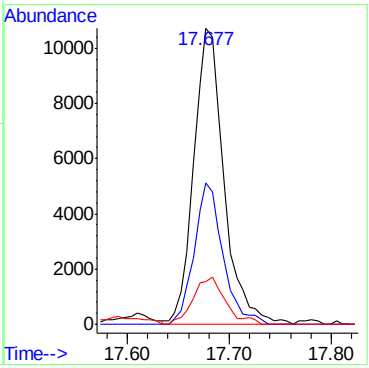




#93
1,2,4-TRIMETHYLBENZENE
Concen: 0.50 PPBV
RT: 17.677 min Scan# 2180
Delta R.T. -0.006 min
Lab File: 2W37605.D
Acq: 1 Mar 2013 6:15 am

Tgt Ion:105 Resp: 22070

Ion	Ratio	Lower	Upper
105	100		
120	45.3	34.7	74.7
119	16.8	95.9	135.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37606.D
Acq On : 1 Mar 2013 6:56 am
Operator : yunxiac
Sample : jb29729-6
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 10:01:58 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

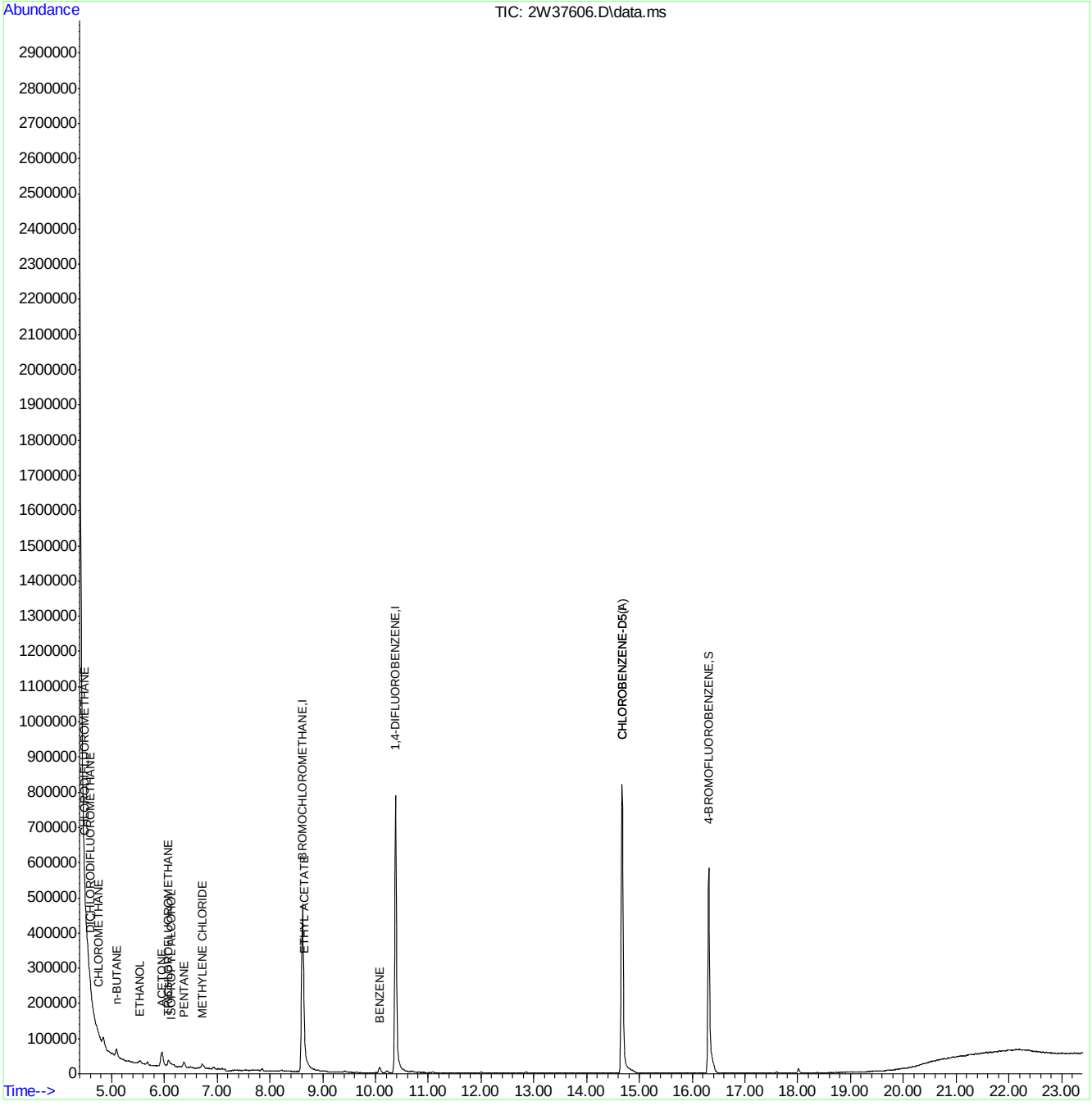
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	196950	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	795932	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.672	82	371579	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.672	82	371579	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	284685	7.52	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 75.20%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	40481	0.50	PPBV		98
5) CHLORODIFLUOROMETHANE	4.491	67	2384	0.28	PPBV		81
8) CHLOROMETHANE	4.747	52	3675	0.45	PPBV	#	73
11) n-BUTANE	5.094	43	31032	0.72	PPBV	#	97
18) TRICHLOROFLUOROMETHANE	6.082	101	19075	0.27	PPBV		100
19) ISOPROPYL ALCOHOL	6.131	45	18273	0.49	PPBV	#	51
20) ACETONE	5.954	58	14331	1.52	PPBV	#	19
21) PENTANE	6.368	42	7647	0.31	PPBV		90
27) ETHANOL	5.533	45	24051	3.15	PPBV		90
30) METHYLENE CHLORIDE	6.716	84	8241	0.39	PPBV		95
42) ETHYL ACETATE	8.642	61	6641	1.09	PPBV	#	1
50) BENZENE	10.075	78	17458	0.32	PPBV		99

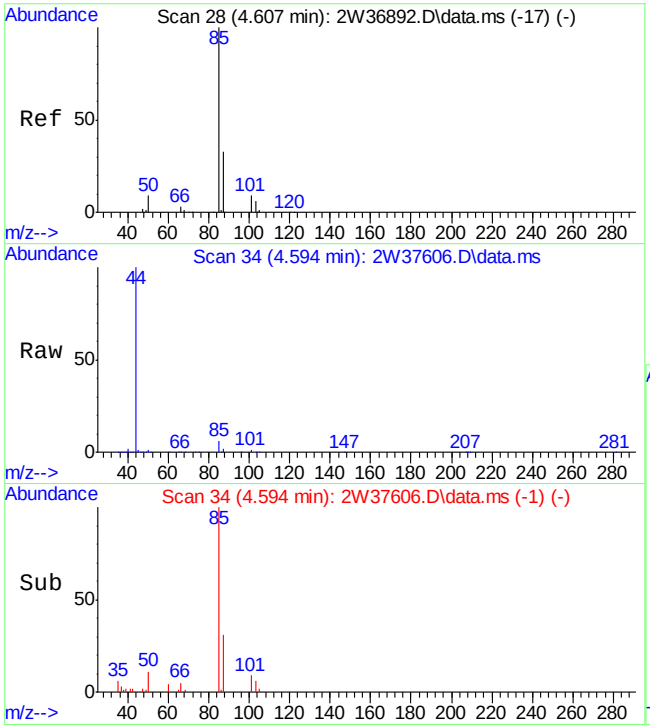
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37606.D
Acq On : 1 Mar 2013 6:56 am
Operator : yunxiac
Sample : jb29729-6
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 10:01:58 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

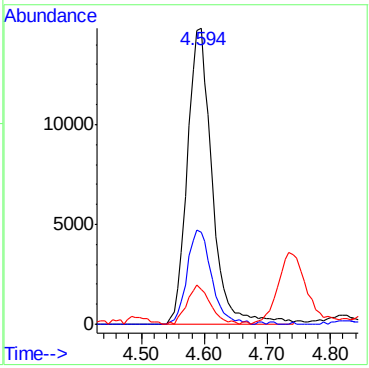


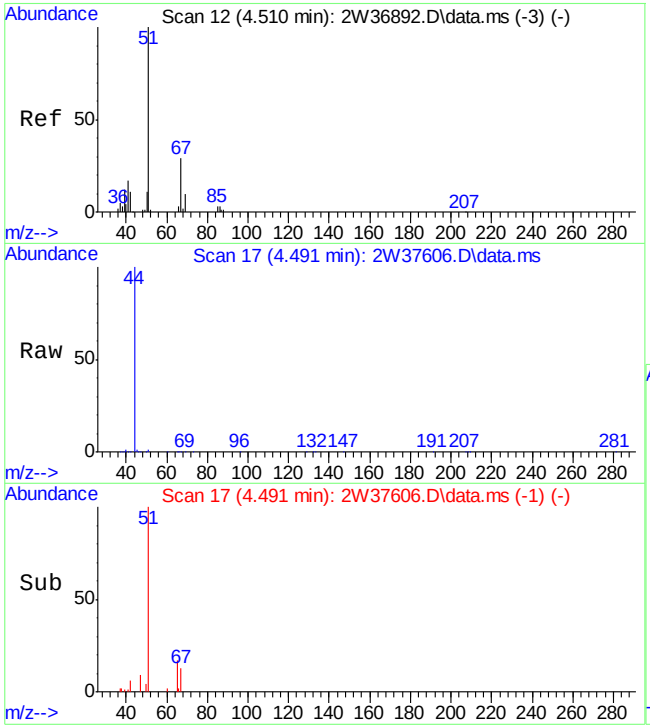


#3
DICHLORODIFLUOROMETHANE
Concen: 0.50 PPBV
RT: 4.594 min Scan# 34
Delta R.T. 0.000 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 85 Resp: 40481

Ion	Ratio	Lower	Upper
85	100		
87	31.4	12.2	52.2
50	12.6	0.0	31.0

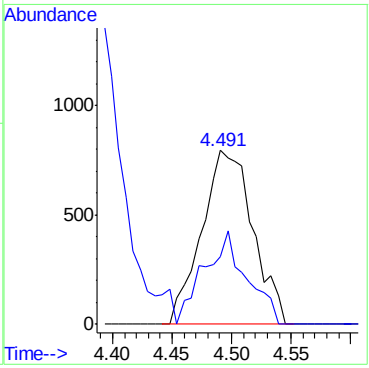


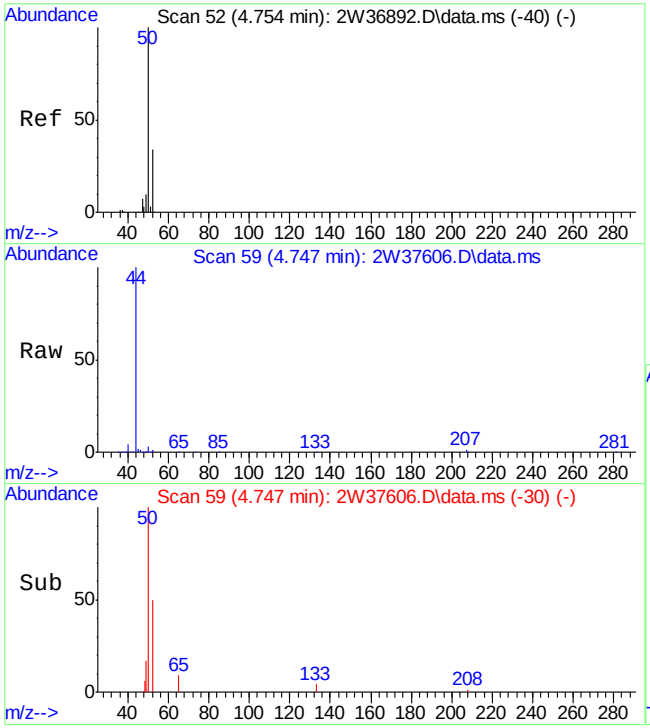


#5
CHLORODIFLUOROMETHANE
Concen: 0.28 PPBV
RT: 4.491 min Scan# 17
Delta R.T. -0.006 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 67 Resp: 2384

Ion	Ratio	Lower	Upper
67	100		
69	43.9	13.0	53.0

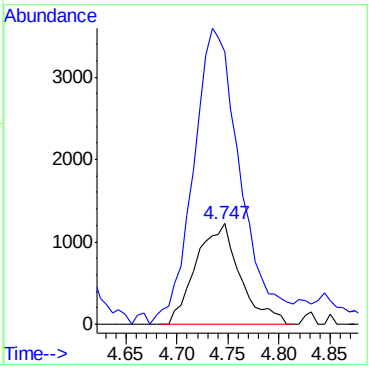


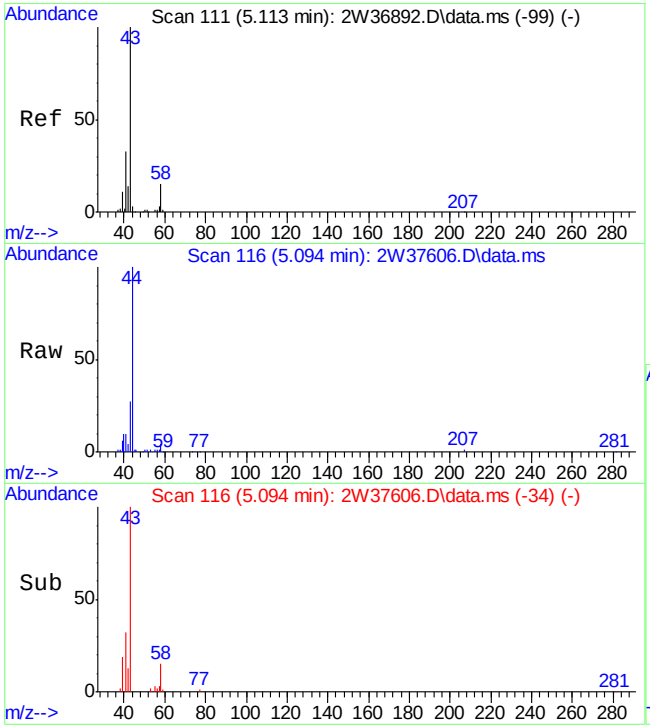


#8
CHLOROMETHANE
Concen: 0.45 PPBV
RT: 4.747 min Scan# 59
Delta R.T. 0.007 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 52 Resp: 3675

Ion	Ratio	Lower	Upper
52	100		
50	254.2	288.4	328.4#

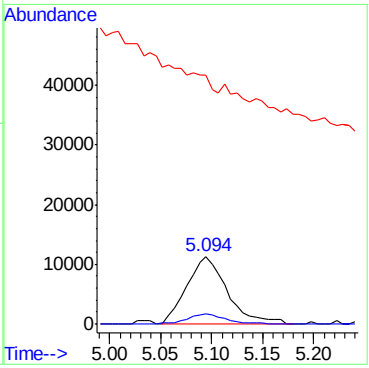


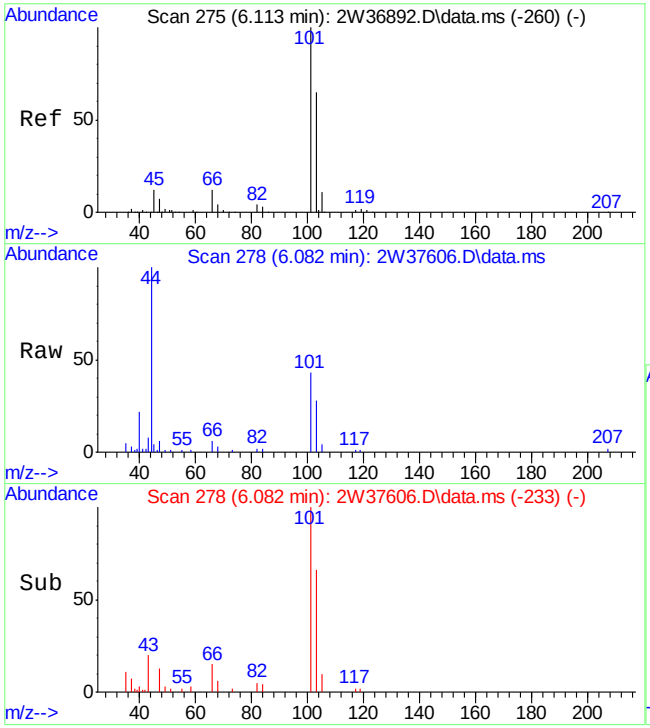


#11
n-BUTANE
Concen: 0.72 PPBV
RT: 5.094 min Scan# 116
Delta R.T. 0.000 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 43 Resp: 31032

Ion	Ratio	Lower	Upper
43	100		
58	14.1	11.0	16.6
44	0.0	2.6	4.0#

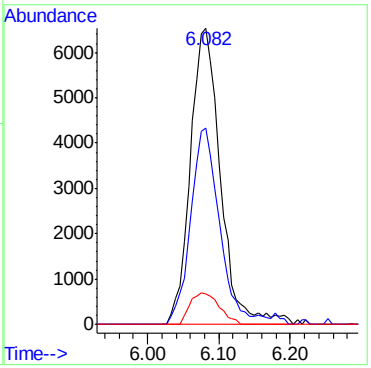


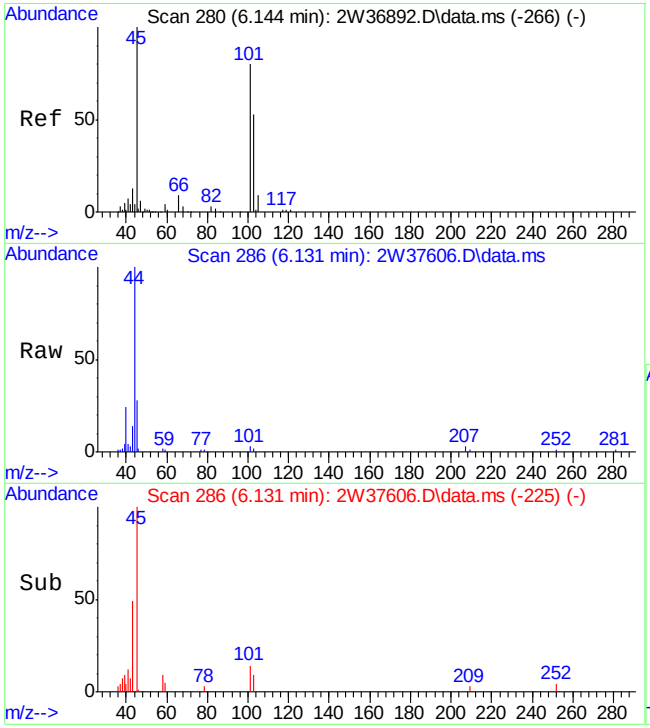


#18
TRICHLOROFLUOROMETHANE
Concen: 0.27 PPBV
RT: 6.082 min Scan# 278
Delta R.T. 0.001 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion:101 Resp: 19075

Ion	Ratio	Lower	Upper
101	100		
103	64.2	44.4	84.4
105	10.3	0.0	30.2

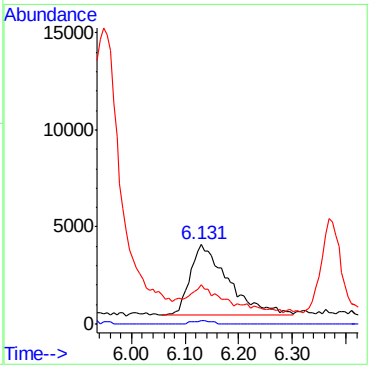


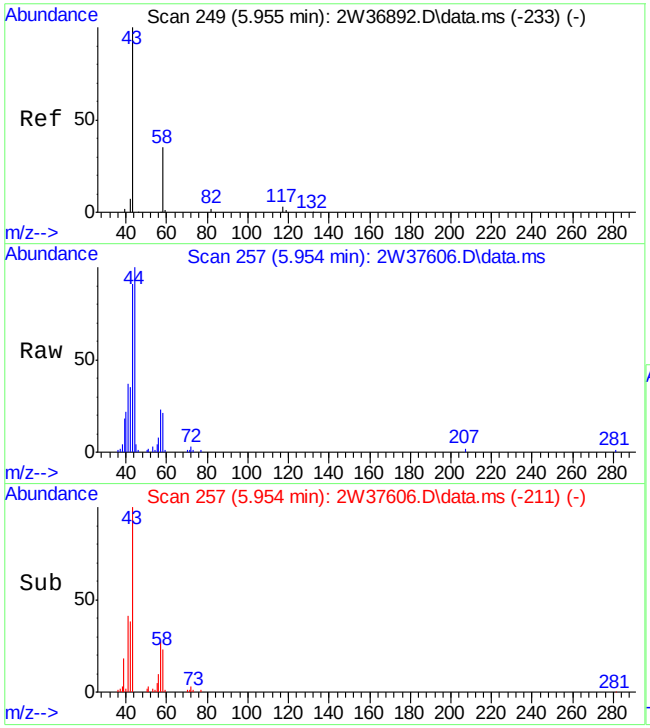


#19
ISOPROPYL ALCOHOL
Concen: 0.49 PPBV
RT: 6.131 min Scan# 286
Delta R.T. 0.025 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 45 Resp: 18273

Ion	Ratio	Lower	Upper
45	100		
59	3.9	0.0	24.3
43	48.7	1.0	41.0#

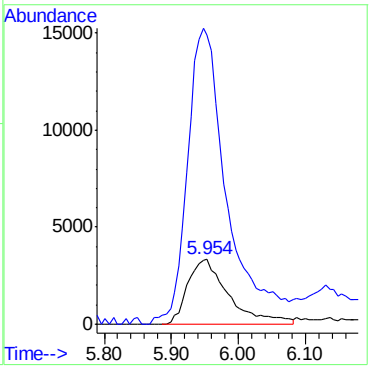


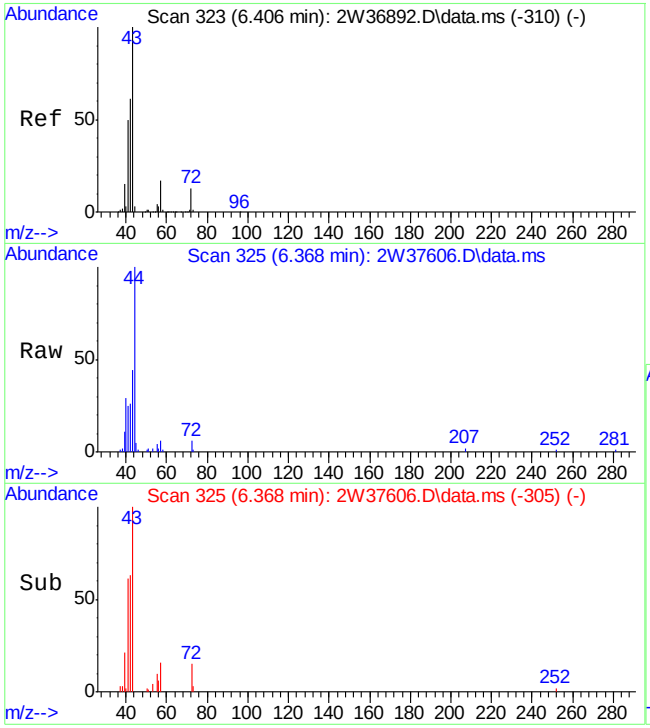


#20
ACETONE
Concen: 1.52 PPBV
RT: 5.954 min Scan# 257
Delta R.T. 0.031 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 58 Resp: 14331

Ion	Ratio	Lower	Upper
58	100		
43	446.5	270.5	310.5#

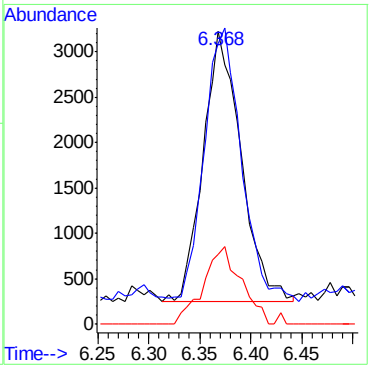


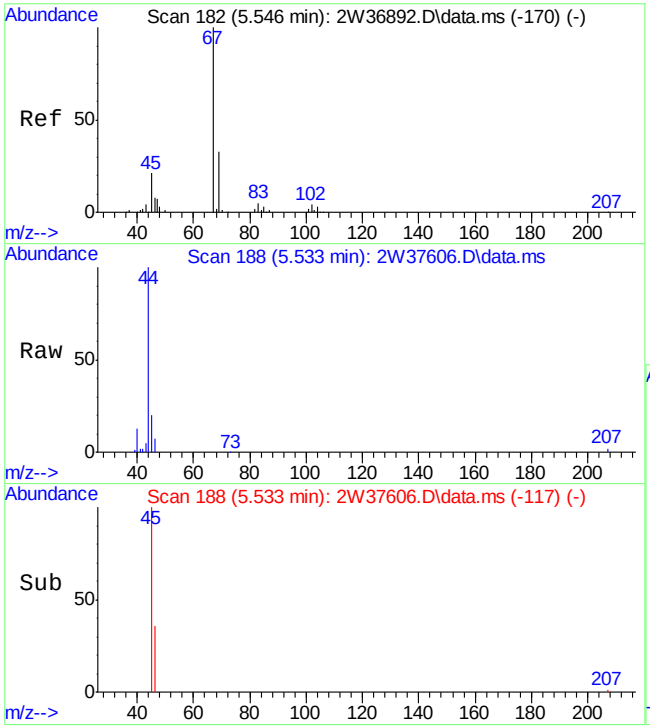


#21
PENTANE
Concen: 0.31 PPBV
RT: 6.368 min Scan# 325
Delta R.T. 0.000 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 42 Resp: 7647

Ion	Ratio	Lower	Upper
42	100		
41	100.0	68.9	108.9
57	28.7	7.1	47.1

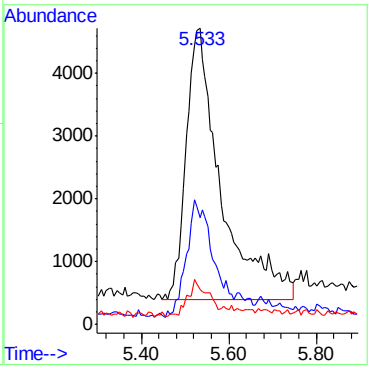


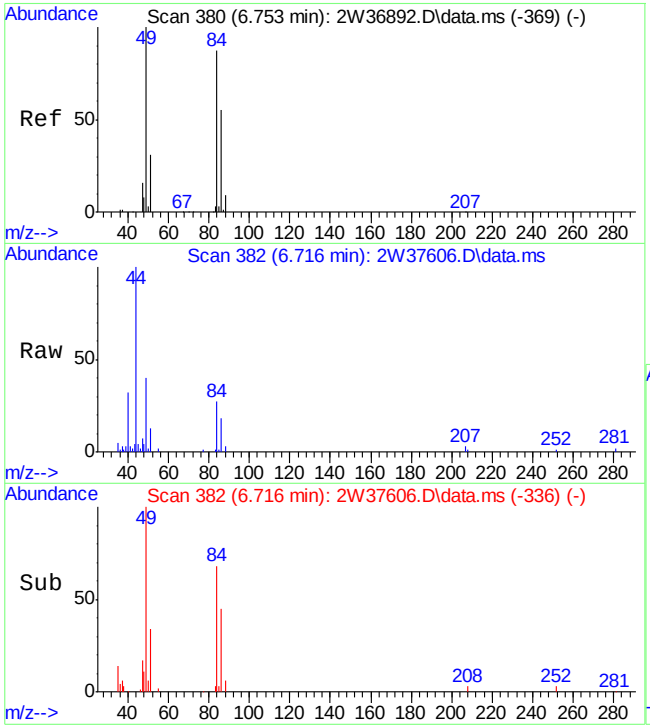


#27
ETHANOL
Concen: 3.15 PPBV
RT: 5.533 min Scan# 188
Delta R.T. 0.031 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 45 Resp: 24051

Ion	Ratio	Lower	Upper
45	100		
46	33.5	10.6	70.6
42	8.1	0.0	38.3

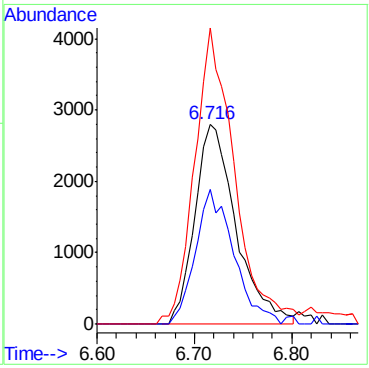


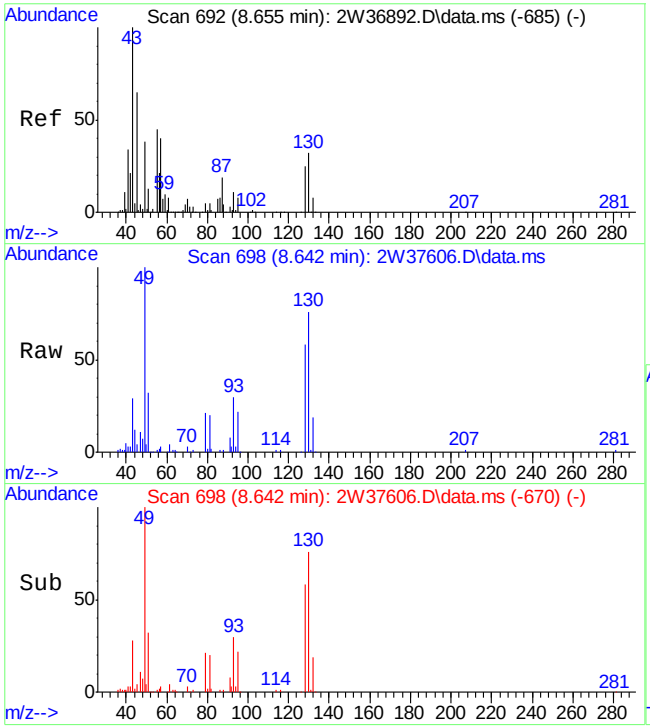


#30
METHYLENE CHLORIDE
Concen: 0.39 PPBV
RT: 6.716 min Scan# 382
Delta R.T. -0.000 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 84 Resp: 8241

Ion	Ratio	Lower	Upper
84	100		
86	62.1	44.9	84.9
49	142.6	0.0	335.2

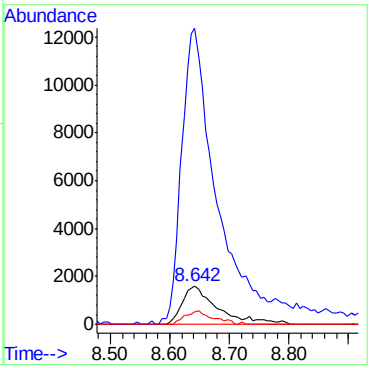


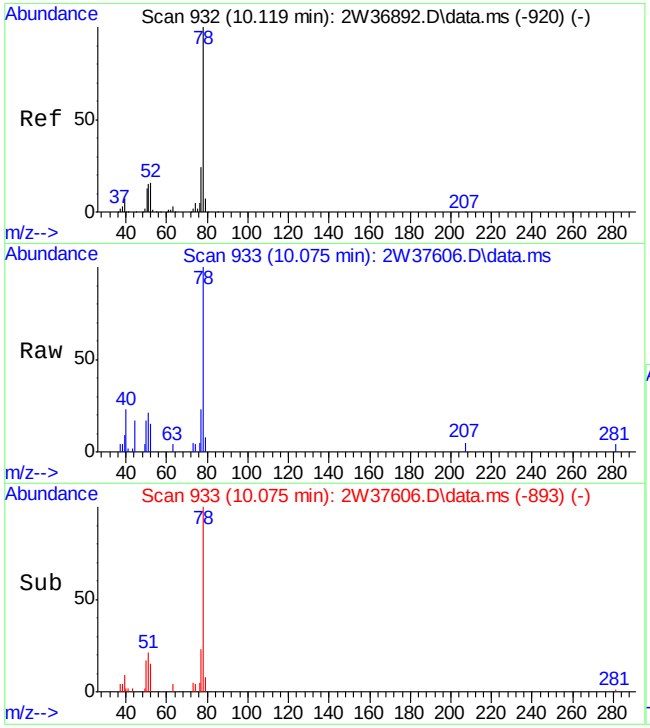


#42
ETHYL ACETATE
Concen: 1.09 PPBV
RT: 8.642 min Scan# 698
Delta R.T. 0.018 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 61 Resp: 6641

Ion	Ratio	Lower	Upper
61	100		
43	778.8	1612.5	1652.5#
88	26.9	19.8	59.8

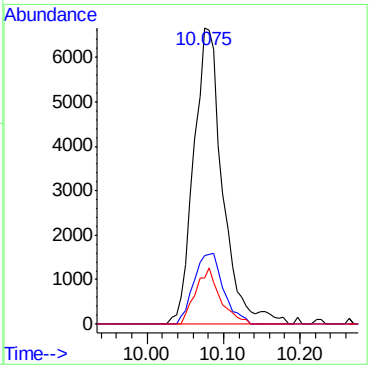




#50
BENZENE
Concen: 0.32 PPBV
RT: 10.075 min Scan# 933
Delta R.T. -0.006 min
Lab File: 2W37606.D
Acq: 1 Mar 2013 6:56 am

Tgt Ion: 78 Resp: 17458

Ion	Ratio	Lower	Upper
78	100		
77	24.5	4.3	44.3
52	16.1	0.0	37.1



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32510.D Vial: 6
Acq On : 2 Mar 2013 5:05 am Operator: yunxiac
Sample : JB29729-7 Inst : MS3W
Misc : MS43676,V3W1260,400,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:15:15 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

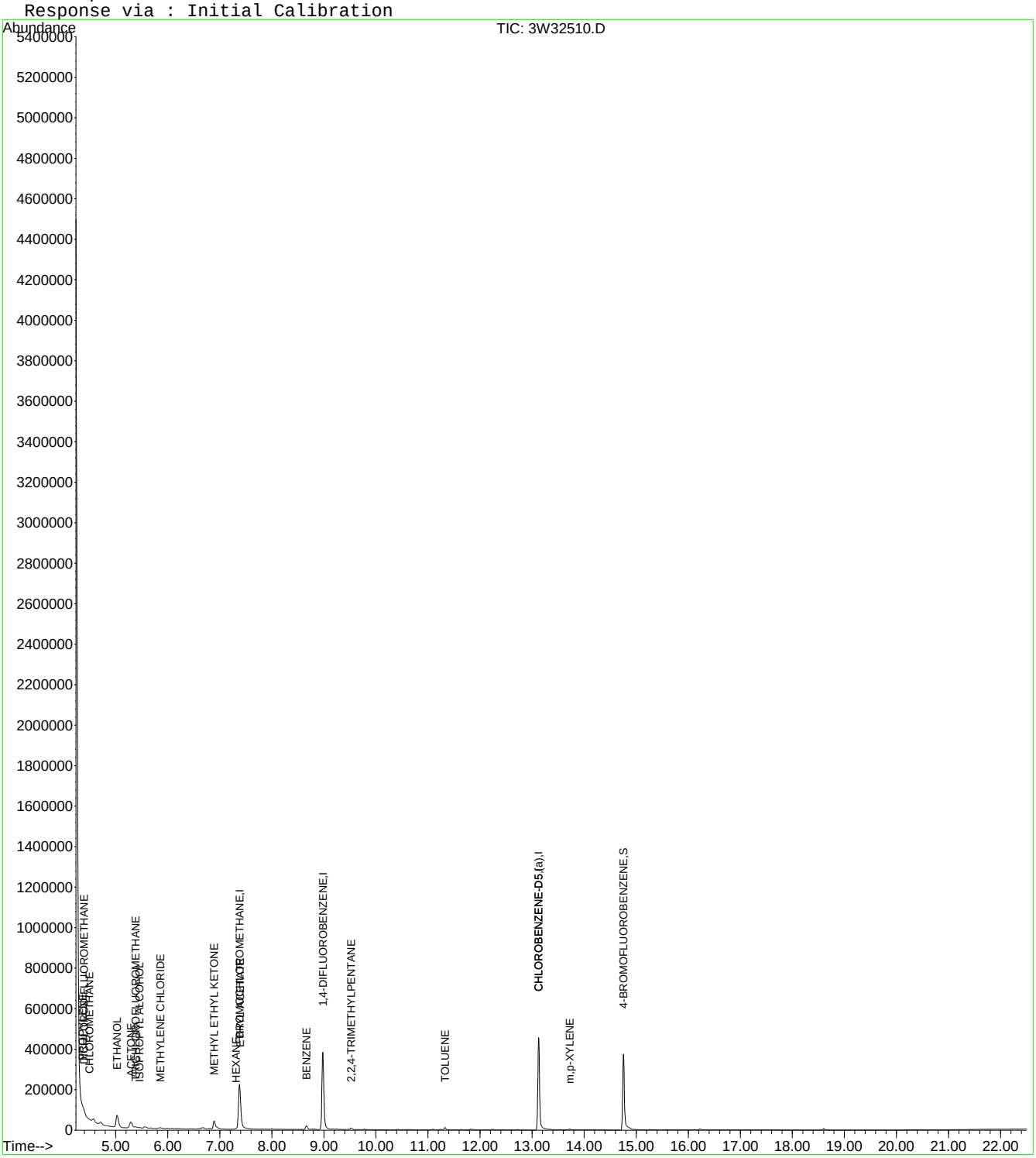
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.38	128	83134	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	8.98	114	422448	10.00	PPBV	-0.03
68) CHLOROBENZENE-D5	13.12	82	197293	10.00	PPBV	-0.03
105) CHLOROBENZENE-D5 (a)	13.12	82	198431	10.00	PPBV	-0.03
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.75	95	169349	8.63	PPBV	-0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 86.30%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.40	85	16170	0.56	PPBV	95
6) PROPYLENE	4.37	41	9584	0.89	PPBV	82
8) CHLOROMETHANE	4.50	50	10252	0.72	PPBV	94
18) TRICHLOROFLUOROMETHANE	5.39	101	6573	0.24	PPBV	99
19) ISOPROPYL ALCOHOL	5.46	45	9507	0.43	PPBV #	53
20) ACETONE	5.30	58	17879	3.19	PPBV	92
26) ETHANOL	5.03	45	156385	29.61	PPBV	98
29) METHYLENE CHLORIDE	5.86	84	2618	0.22	PPBV	82
36) HEXANE	7.31	57	2811	0.14	PPBV	93
39) METHYL ETHYL KETONE	6.89	72	17866	3.35	PPBV #	58
42) ETHYL ACETATE	7.40	61	5475	1.25	PPBV #	58
50) BENZENE	8.66	78	22345	0.56	PPBV	97
58) 2,2,4-TRIMETHYLPENTANE	9.52	57	10089	0.15	PPBV	85
65) TOLUENE	11.33	92	6360	0.26	PPBV	99
78) m,p-XYLENE	13.73	106	1802	0.11	PPBV	88

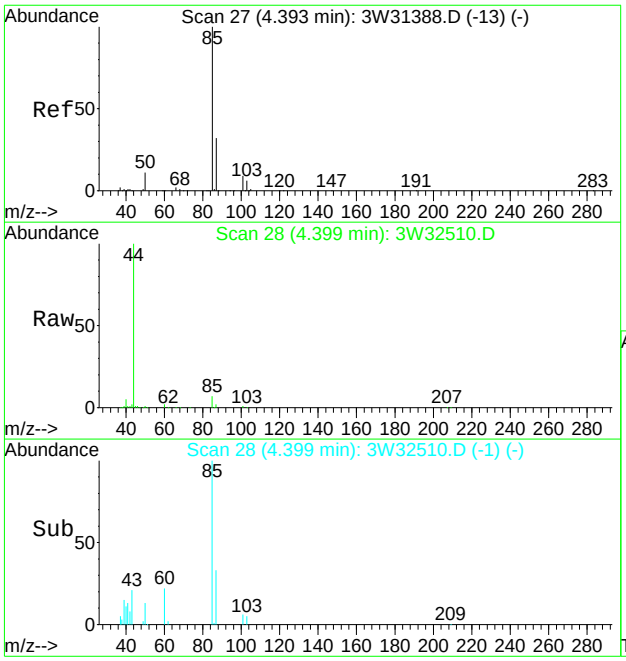
(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32510.D M3W1230.M Mon Mar 04 10:22:20 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32510.D Vial: 6
Acq On : 2 Mar 2013 5:05 am Operator: yunxiac
Sample : JB29729-7 Inst : MS3W
Misc : MS43676,V3W1260,400,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 10:16 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

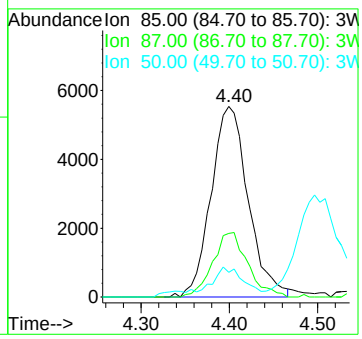


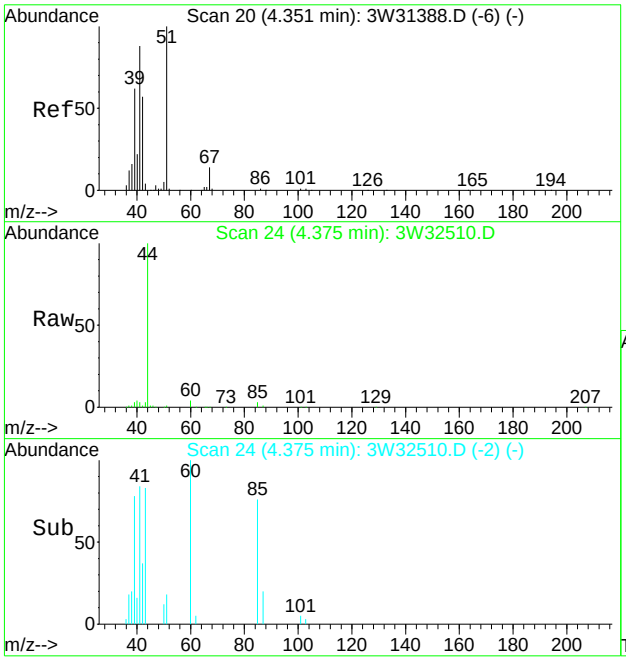


#5
DICHLORODIFLUOROMETHANE
Concen: 0.56 PPBV
RT: 4.40 min Scan# 28
Delta R.T. -0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 85 Resp: 16170

Ion	Ratio	Lower	Upper
85	100		
87	32.0	12.3	52.3
50	16.2	0.0	29.4

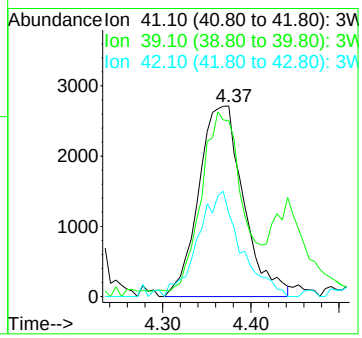


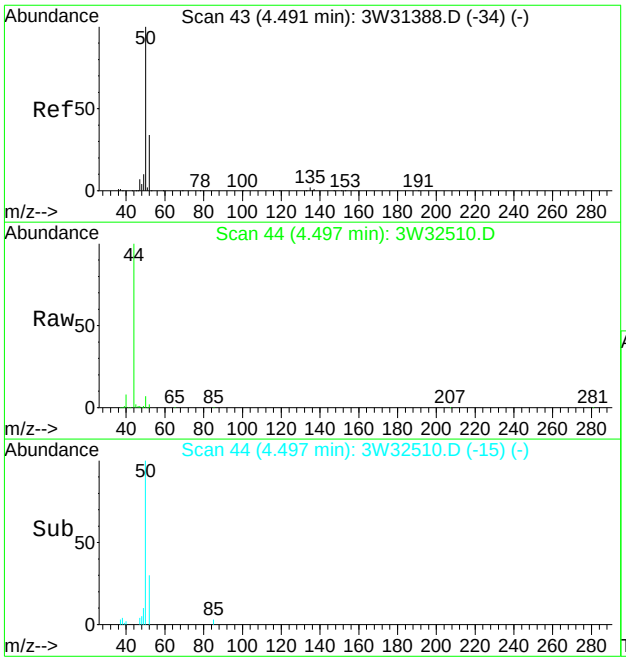


#6
PROPYLENE
Concen: 0.89 PPBV
RT: 4.37 min Scan# 24
Delta R.T. 0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 41 Resp: 9584

Ion	Ratio	Lower	Upper
41	100		
39	86.8	51.1	91.1
42	52.7	46.5	86.5

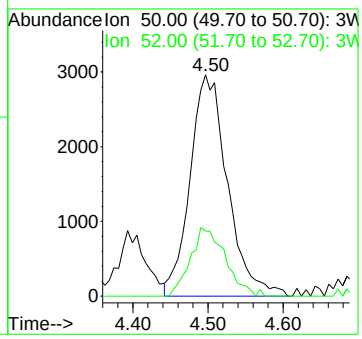


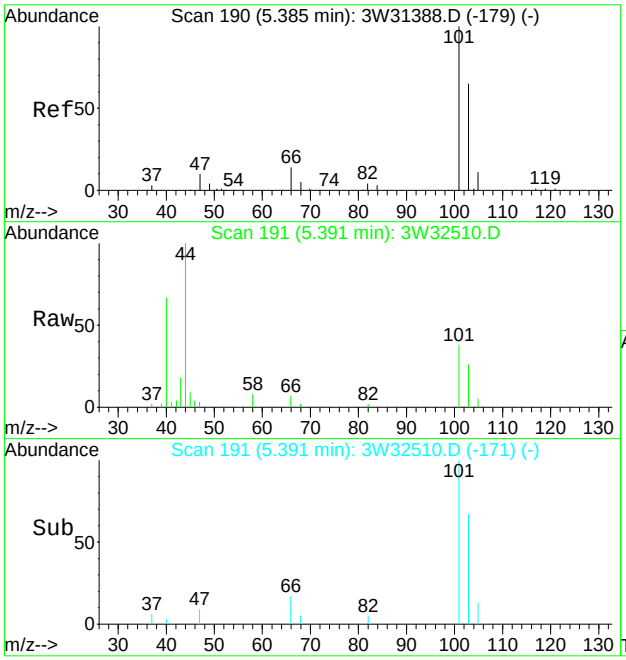


#8
CHLOROMETHANE
Concen: 0.72 PPBV
RT: 4.50 min Scan# 44
Delta R.T. -0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 50 Resp: 10252

Ion	Ratio	Lower	Upper
50	100		
52	30.2	13.6	53.6

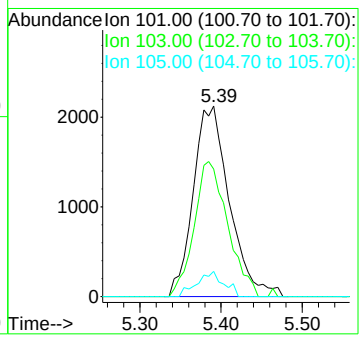


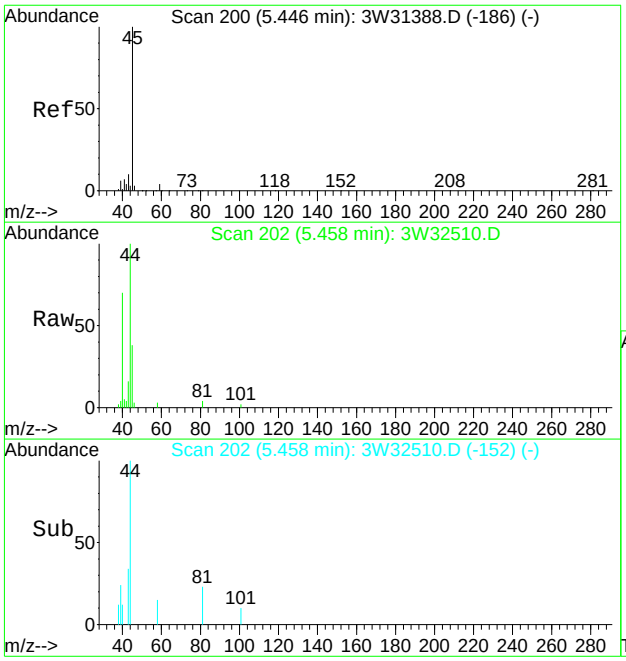


#18
TRICHLOROFLUOROMETHANE
Concen: 0.24 PPBV
RT: 5.39 min Scan# 191
Delta R.T. -0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion:101 Resp: 6573

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.9	84.9
105	9.7	0.0	30.6

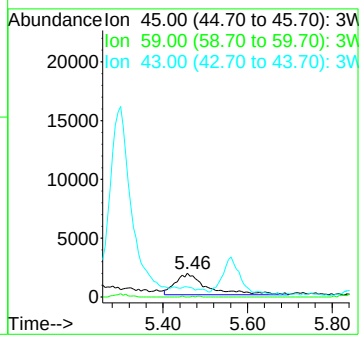


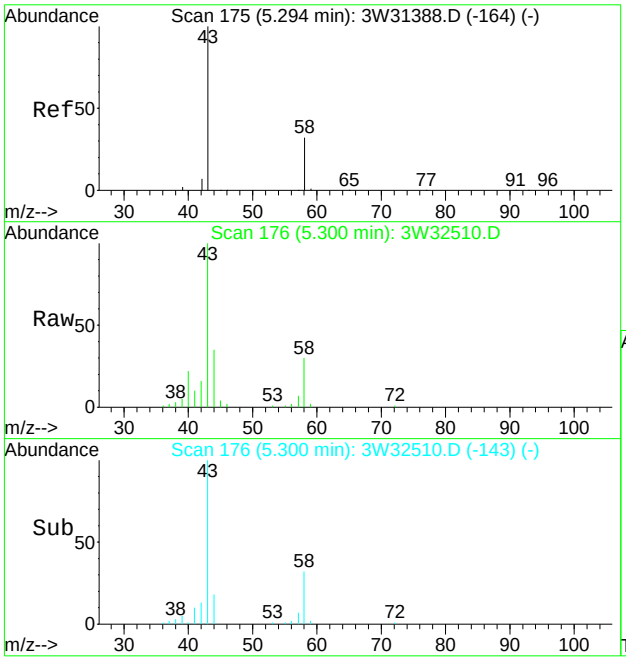


#19
ISOPROPYL ALCOHOL
Concen: 0.43 PPBV
RT: 5.46 min Scan# 202
Delta R.T. 0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 45 Resp: 9507

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	24.2
43	42.0	0.0	37.9#

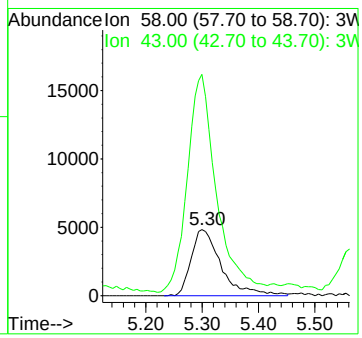


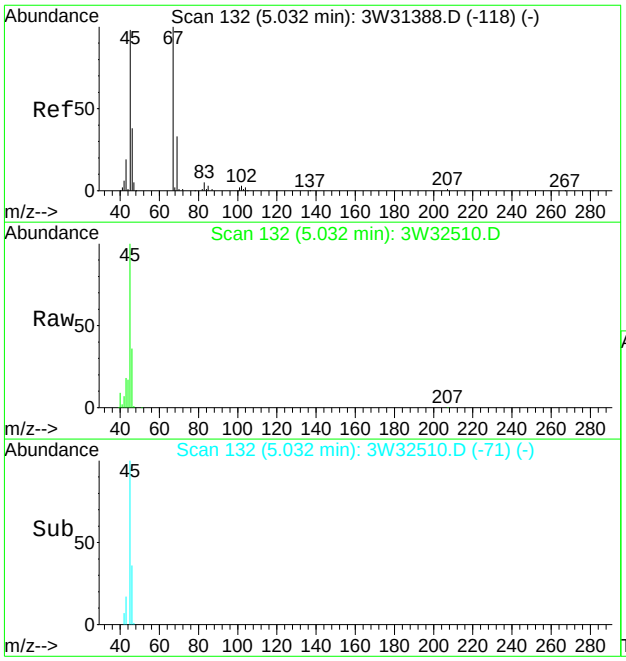


#20
ACETONE
Concen: 3.19 PPBV
RT: 5.30 min Scan# 176
Delta R.T. 0.00 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 58 Resp: 17879

Ion	Ratio	Lower	Upper
58	100		
43	327.4	290.7	330.7

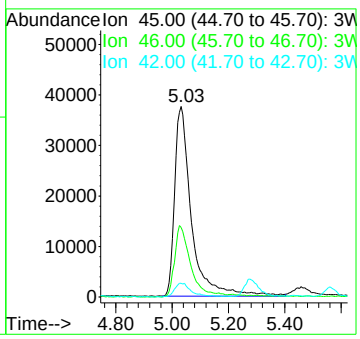


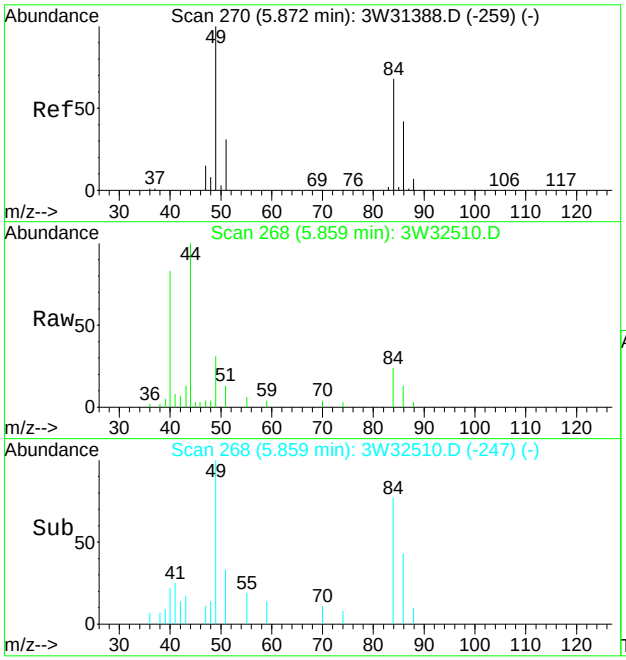


#26
ETHANOL
Concen: 29.61 PPBV
RT: 5.03 min Scan# 132
Delta R.T. -0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 45 Resp: 156385

Ion	Ratio	Lower	Upper
45	100		
46	37.8	16.5	56.5
42	7.7	0.0	26.8

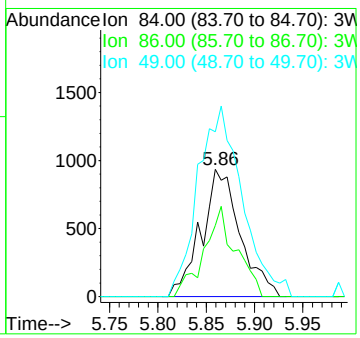


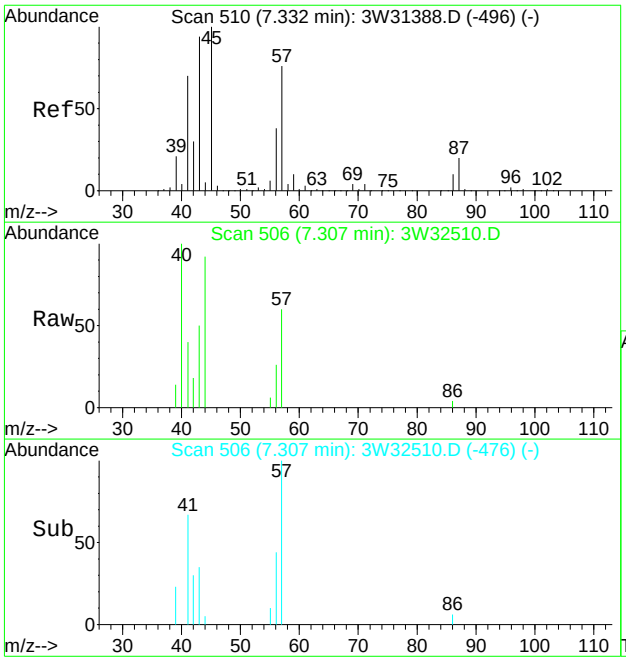


#29
METHYLENE CHLORIDE
Concen: 0.22 PPBV
RT: 5.86 min Scan# 268
Delta R.T. -0.02 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 84 Resp: 2618

Ion	Ratio	Lower	Upper
84	100		
86	57.9	47.7	87.7
49	170.0	0.0	344.9

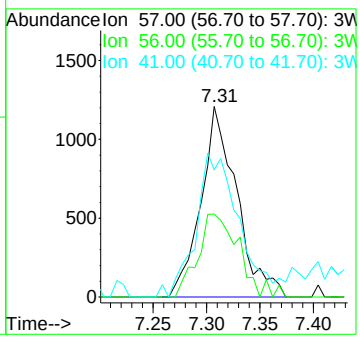


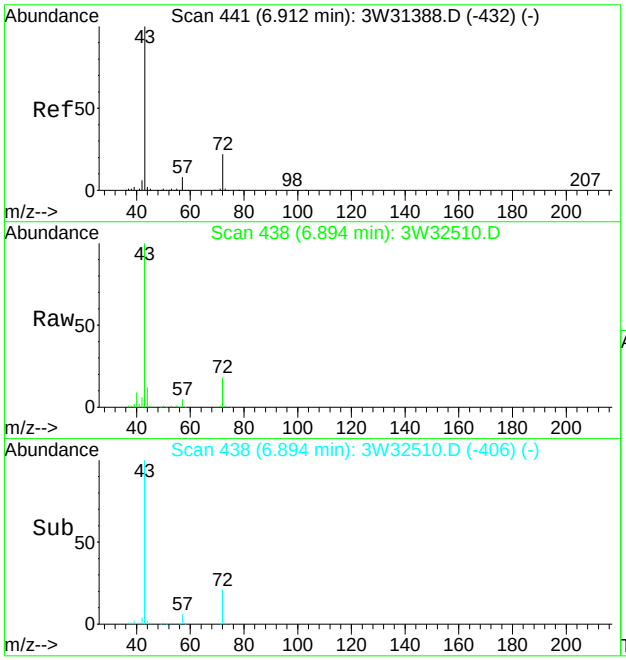


#36
HEXANE
Concen: 0.14 PPBV
RT: 7.31 min Scan# 506
Delta R.T. -0.02 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 57 Resp: 2811

Ion	Ratio	Lower	Upper
57	100		
56	47.7	30.0	70.0
41	92.3	80.4	120.4

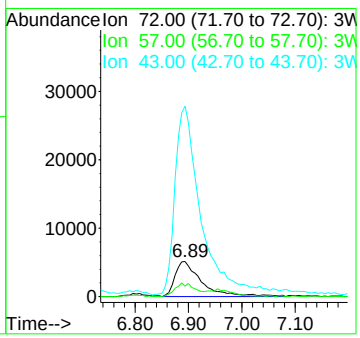


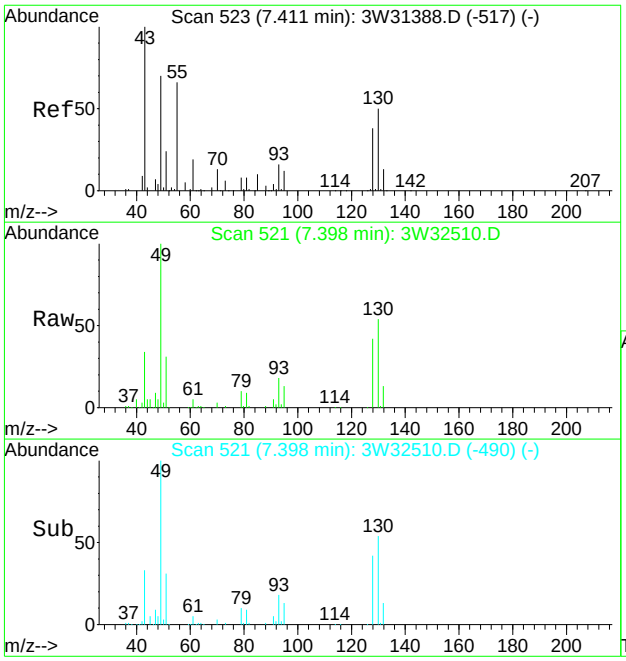


#39
METHYL ETHYL KETONE
Concen: 3.35 PPBV
RT: 6.89 min Scan# 438
Delta R.T. -0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 72 Resp: 17866

Ion	Ratio	Lower	Upper
72	100		
57	29.3	10.3	50.3
43	541.5	409.6	449.6#

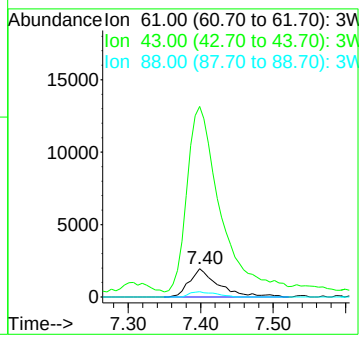


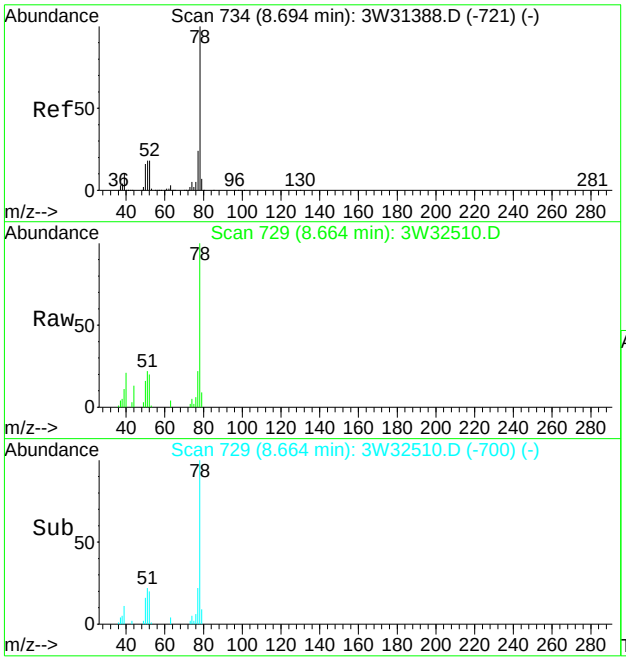


#42
ETHYL ACETATE
Concen: 1.25 PPBV
RT: 7.40 min Scan# 521
Delta R.T. -0.01 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 61 Resp: 5475

Ion	Ratio	Lower	Upper
61	100		
43	794.4	632.9	672.9#
88	16.7	3.8	43.8

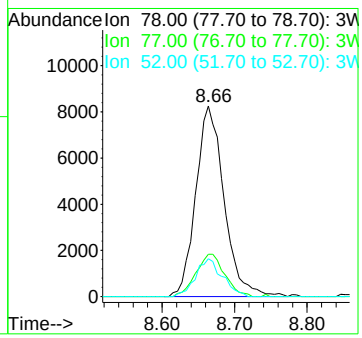


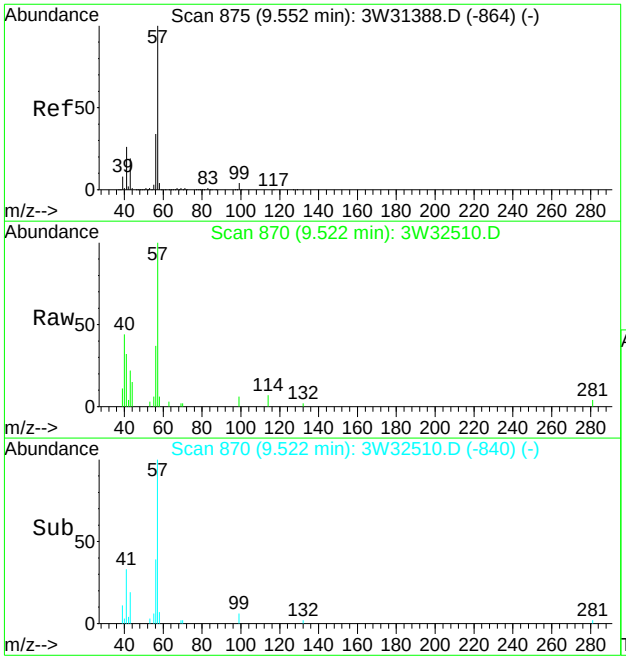


#50
BENZENE
Concen: 0.56 PPBV
RT: 8.66 min Scan# 729
Delta R.T. -0.03 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 78 Resp: 22345

Ion	Ratio	Lower	Upper
78	100		
77	22.6	3.3	43.3
52	18.8	0.0	36.4

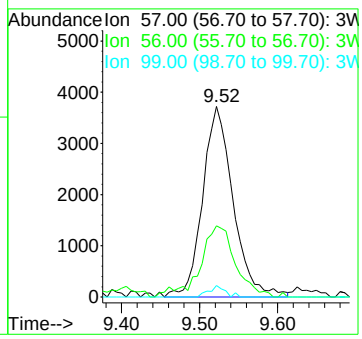


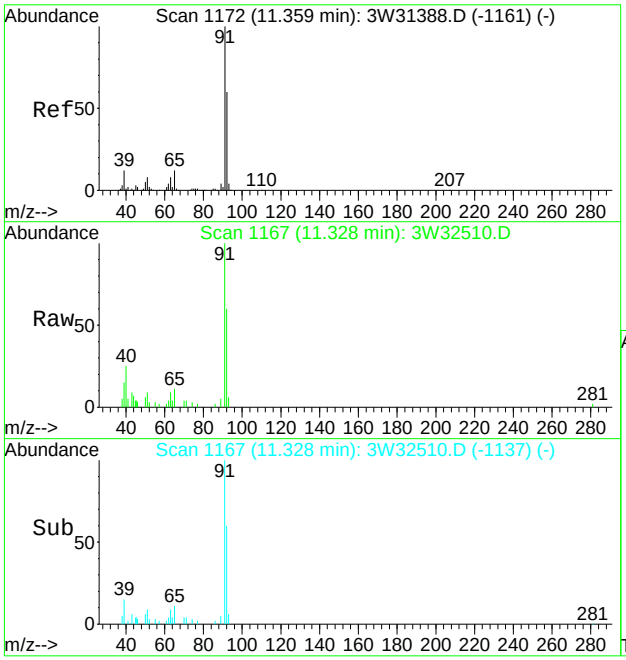


#58
2,2,4-TRIMETHYLPENTANE
Concen: 0.15 PPBV
RT: 9.52 min Scan# 870
Delta R.T. -0.02 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 57 Resp: 10089

Ion	Ratio	Lower	Upper
57	100		
56	43.0	13.3	53.3
99	3.2	0.0	24.8

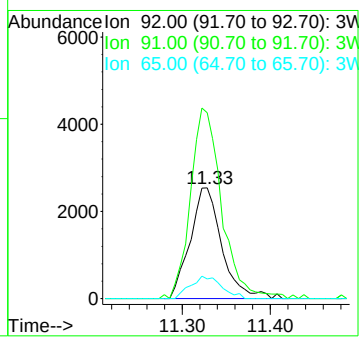


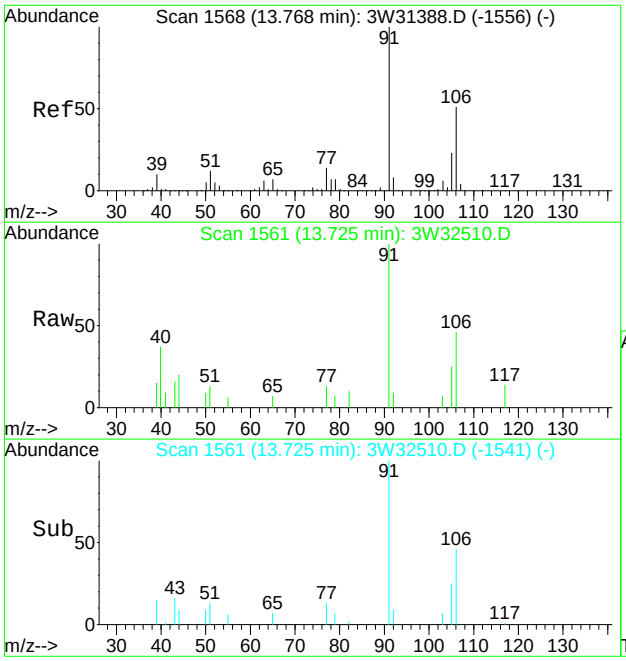


#65
TOLUENE
Concen: 0.26 PPBV
RT: 11.33 min Scan# 1167
Delta R.T. -0.02 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion: 92 Resp: 6360

Ion	Ratio	Lower	Upper
92	100		
91	168.5	147.5	187.5
65	19.7	2.2	42.2

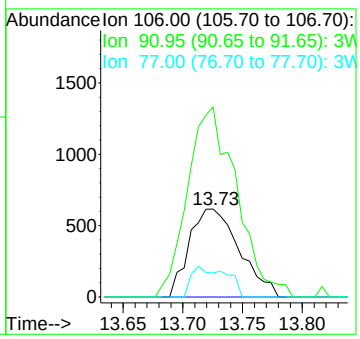




#78
m,p-XYLENE
Concen: 0.11 PPBV
RT: 13.73 min Scan# 1561
Delta R.T. -0.03 min
Lab File: 3W32510.D
Acq: 2 Mar 2013 5:05 am

Tgt Ion:106 Resp: 1802

Ion	Ratio	Lower	Upper
106	100		
91	216.6	176.7	216.7
77	27.4	6.4	46.4



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32511.D Vial: 7
Acq On : 2 Mar 2013 5:44 am Operator: yunxiac
Sample : JB29729-8 Inst : MS3W
Misc : MS43676,V3W1260,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:15:19 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

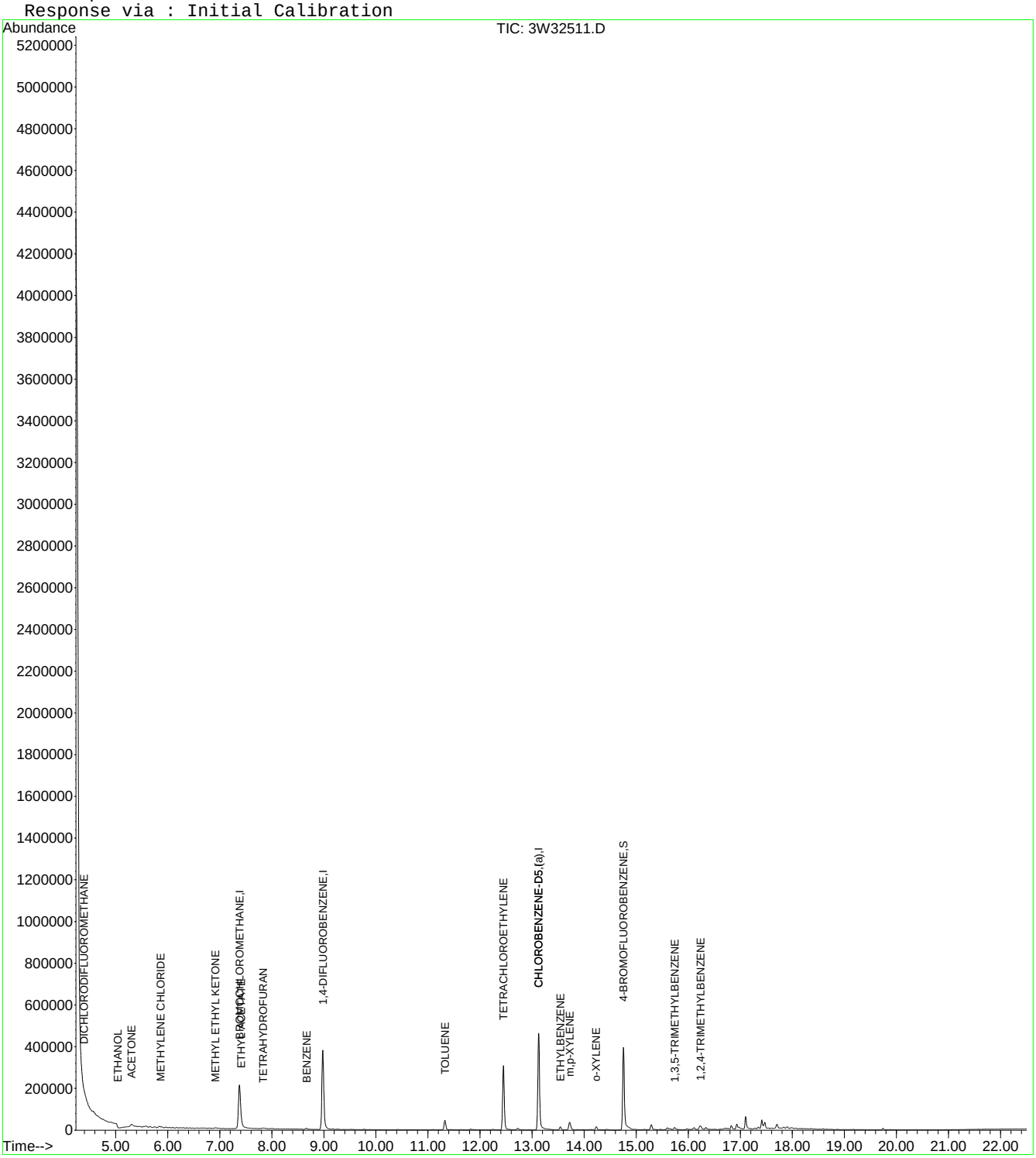
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.38	128	80205	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	8.98	114	424347	10.00	PPBV	-0.03
68) CHLOROBENZENE-D5	13.12	82	201907	10.00	PPBV	-0.03
105) CHLOROBENZENE-D5 (a)	13.12	82	202634	10.00	PPBV	-0.03
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.75	95	179912	8.96	PPBV	-0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 89.60%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.40	85	3597	0.13	PPBV	97
20) ACETONE	5.31	58	9339	1.73	PPBV	96
26) ETHANOL	5.05	45	9209	1.81	PPBV #	69
29) METHYLENE CHLORIDE	5.87	84	2505	0.22	PPBV	78
35) TETRAHYDROFURAN	7.82	72	1506	0.29	PPBV #	38
39) METHYL ETHYL KETONE	6.91	72	1952	0.38	PPBV	98
42) ETHYL ACETATE	7.42	61	2879	0.68	PPBV #	11
50) BENZENE	8.66	78	6012	0.15	PPBV	97
65) TOLUENE	11.33	92	26212	1.06	PPBV	98
71) TETRACHLOROETHYLENE	12.45	164	97183	6.03	PPBV	98
77) ETHYLBENZENE	13.54	91	13125	0.29	PPBV	99
78) m,p-XYLENE	13.72	106	16970	1.03	PPBV	94
79) o-XYLENE	14.24	106	5868	0.36	PPBV	99
91) 1,3,5-TRIMETHYLBENZENE	15.75	105	3101	0.10	PPBV	98
94) 1,2,4-TRIMETHYLBENZENE	16.24	105	9033	0.34	PPBV #	28

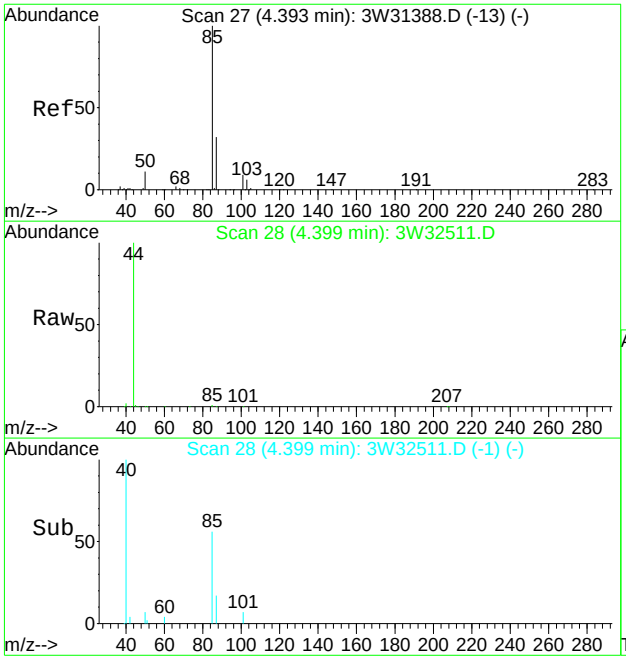
(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32511.D M3W1230.M Mon Mar 04 10:22:24 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32511.D Vial: 7
Acq On : 2 Mar 2013 5:44 am Operator: yunxiac
Sample : JB29729-8 Inst : MS3W
Misc : MS43676,V3W1260,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 10:18 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

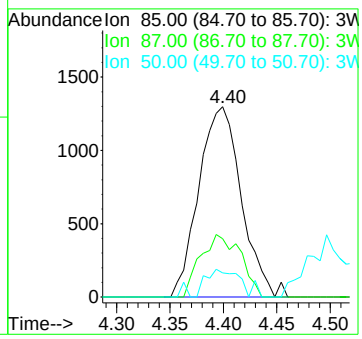


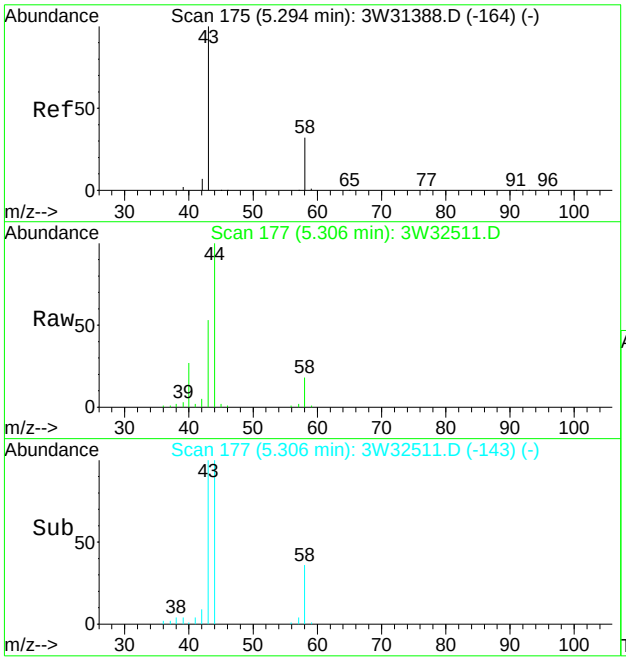


#5
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 4.40 min Scan# 28
Delta R.T. -0.01 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 85 Resp: 3597

Ion	Ratio	Lower	Upper
85	100		
87	31.0	12.3	52.3
50	12.0	0.0	29.4

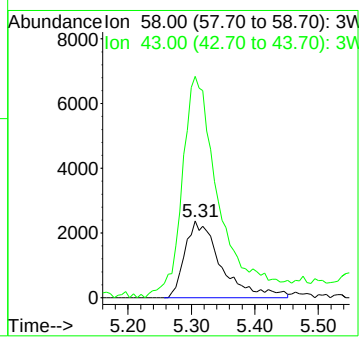


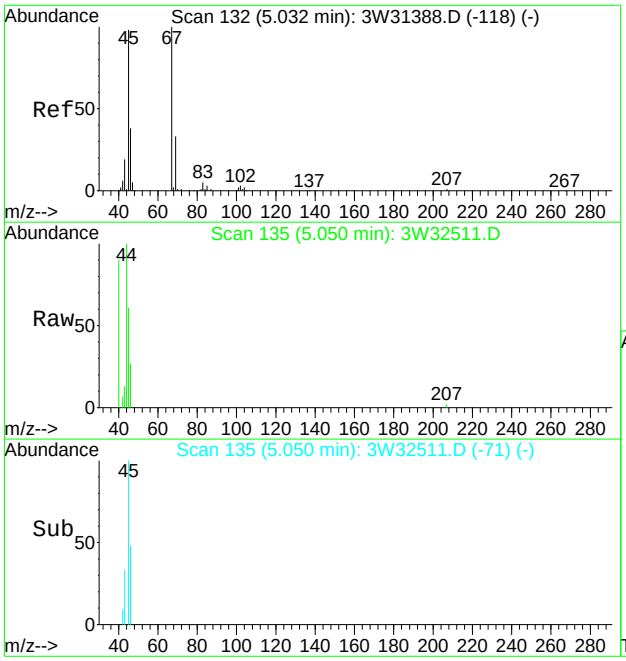


#20
ACETONE
Concen: 1.73 PPBV
RT: 5.31 min Scan# 177
Delta R.T. 0.01 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 58 Resp: 9339

Ion	Ratio	Lower	Upper
58	100		
43	302.8	290.7	330.7

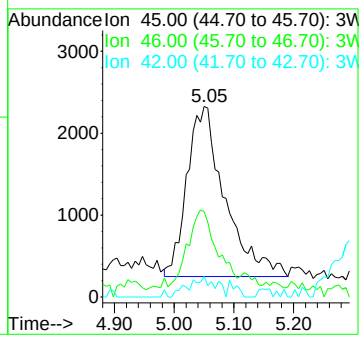


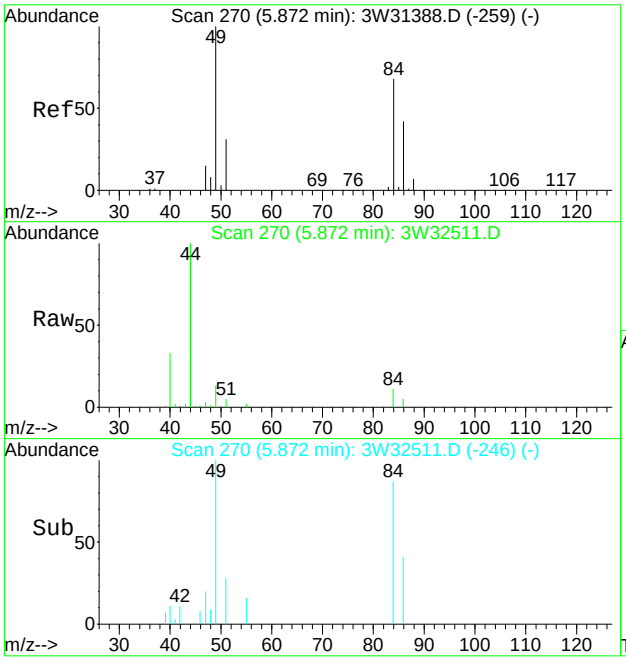


#26
ETHANOL
Concen: 1.81 PPBV
RT: 5.05 min Scan# 135
Delta R.T. 0.01 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 45 Resp: 9209

Ion	Ratio	Lower	Upper
45	100		
46	57.6	16.5	56.5#
42	8.3	0.0	26.8

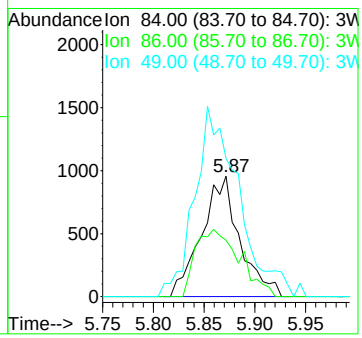


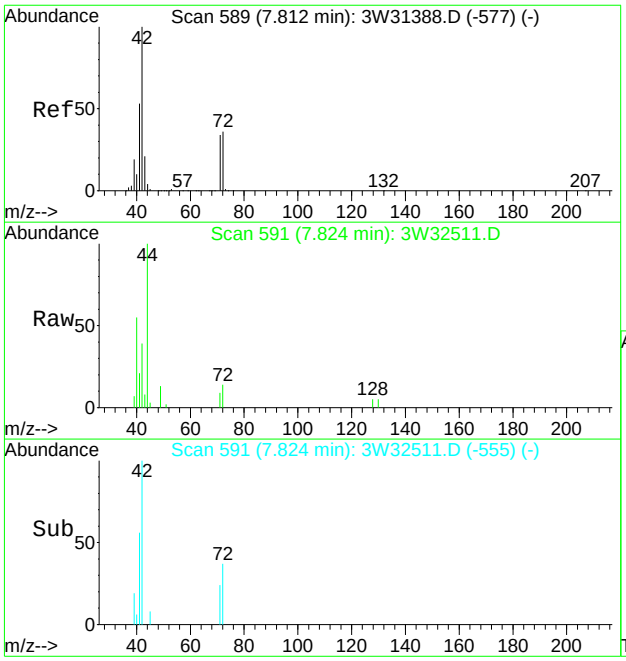


#29
METHYLENE CHLORIDE
Concen: 0.22 PPBV
RT: 5.87 min Scan# 270
Delta R.T. -0.01 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 84 Resp: 2505

Ion	Ratio	Lower	Upper
84	100		
86	64.7	47.7	87.7
49	182.2	0.0	344.9

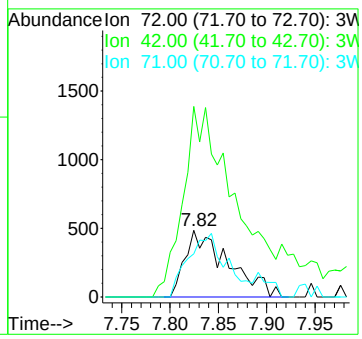


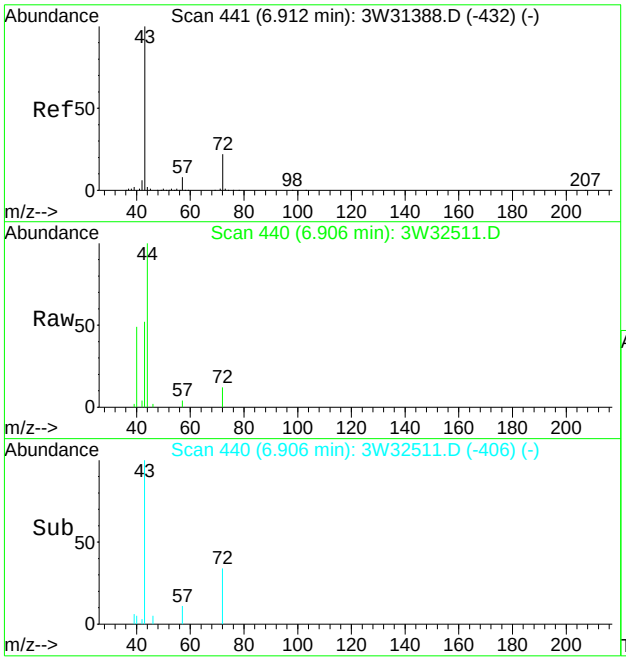


#35
TETRAHYDROFURAN
Concen: 0.29 PPBV
RT: 7.82 min Scan# 591
Delta R.T. 0.02 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 72 Resp: 1506

Ion	Ratio	Lower	Upper
72	100		
42	395.1	229.0	269.0#
71	98.0	75.2	115.2

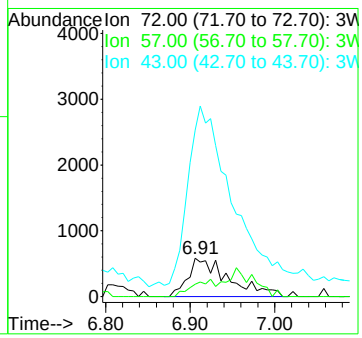


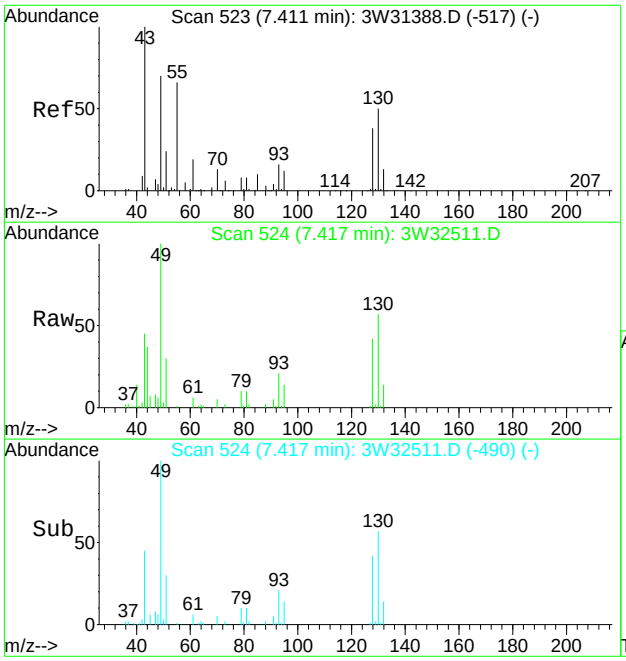


#39
METHYL ETHYL KETONE
Concen: 0.38 PPBV
RT: 6.91 min Scan# 440
Delta R.T. 0.00 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 72 Resp: 1952

Ion	Ratio	Lower	Upper
72	100		
57	32.6	10.3	50.3
43	434.7	409.6	449.6

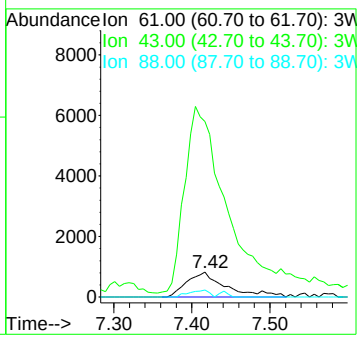


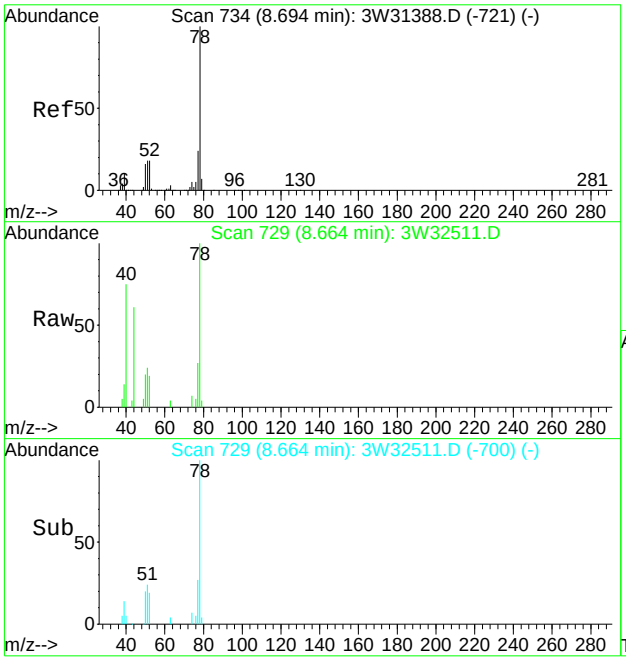


#42
ETHYL ACETATE
Concen: 0.68 PPBV
RT: 7.42 min Scan# 524
Delta R.T. 0.01 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 61 Resp: 2879

Ion	Ratio	Lower	Upper
61	100		
43	955.1	632.9	672.9#
88	14.1	3.8	43.8

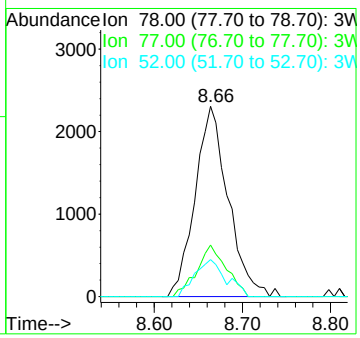


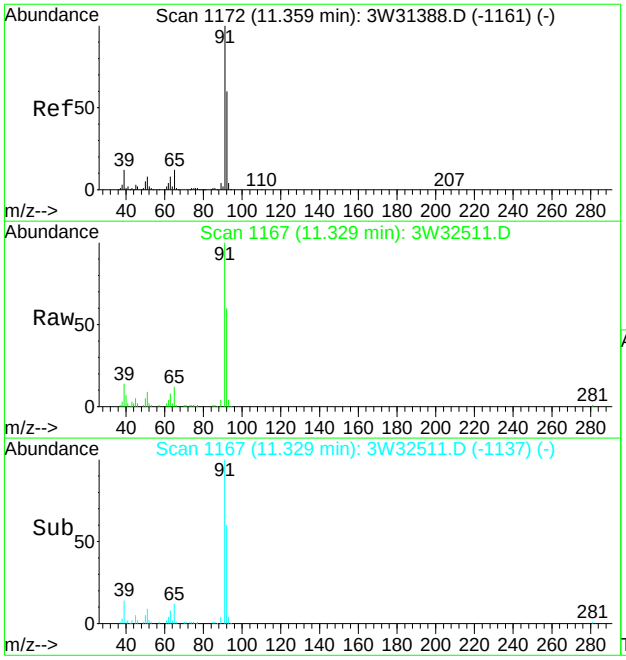


#50
BENZENE
Concen: 0.15 PPBV
RT: 8.66 min Scan# 729
Delta R.T. -0.03 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 78 Resp: 6012

Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.3	43.3
52	18.3	0.0	36.4

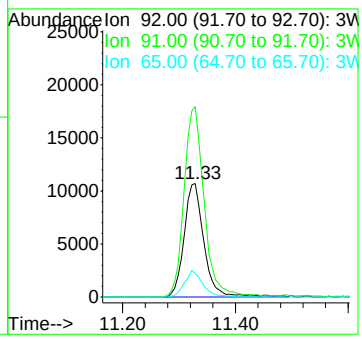


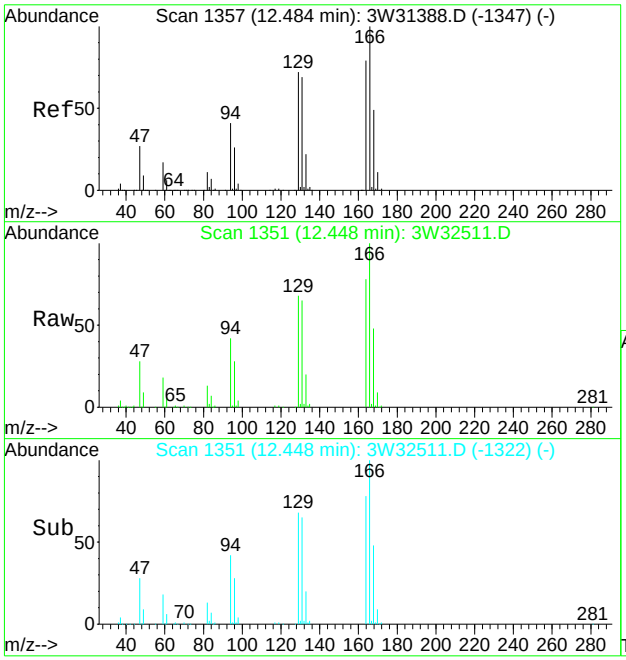


#65
TOLUENE
Concen: 1.06 PPBV
RT: 11.33 min Scan# 1167
Delta R.T. -0.02 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 92 Resp: 26212

Ion	Ratio	Lower	Upper
92	100		
91	170.8	147.5	187.5
65	21.3	2.2	42.2

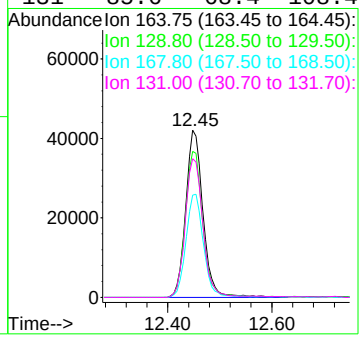


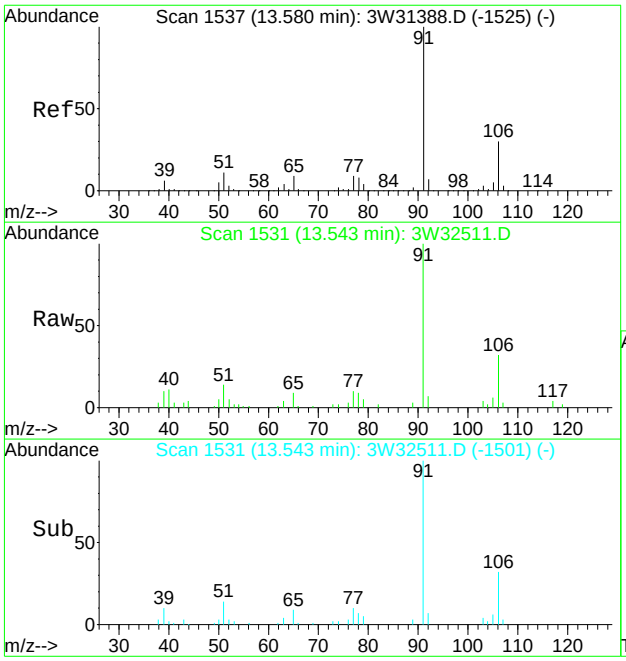


#71
TETRACHLOROETHYLENE
Concen: 6.03 PPBV
RT: 12.45 min Scan# 1351
Delta R.T. -0.03 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion:164 Resp: 97183

Ion	Ratio	Lower	Upper
164	100		
129	88.4	71.5	111.5
168	62.9	42.5	82.5
131	85.6	68.4	108.4

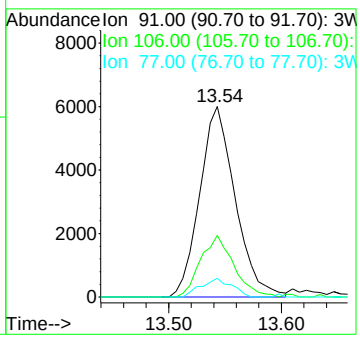


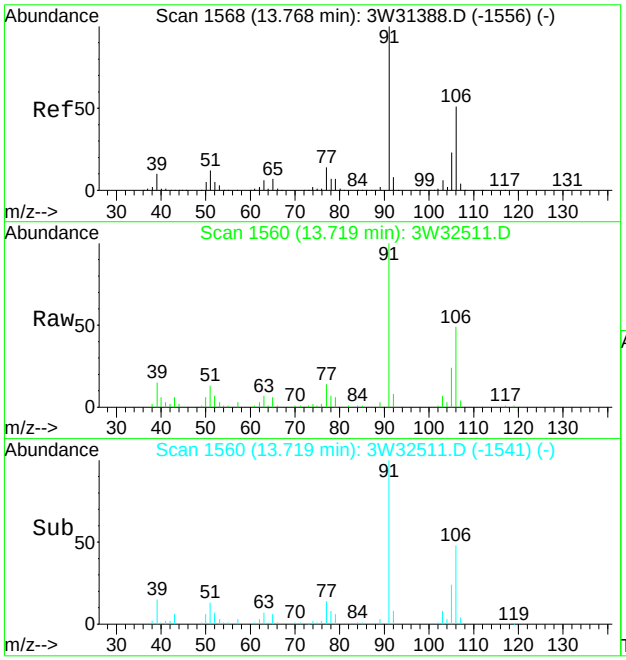


#77
ETHYLBENZENE
Concen: 0.29 PPBV
RT: 13.54 min Scan# 1531
Delta R.T. -0.02 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion: 91 Resp: 13125

Ion	Ratio	Lower	Upper
91	100		
106	30.2	11.0	51.0
77	8.5	0.0	28.4

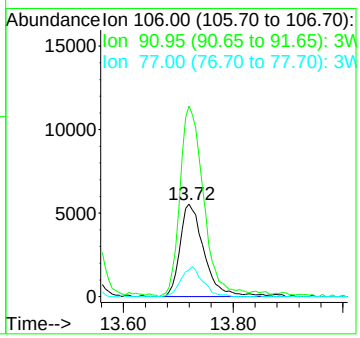


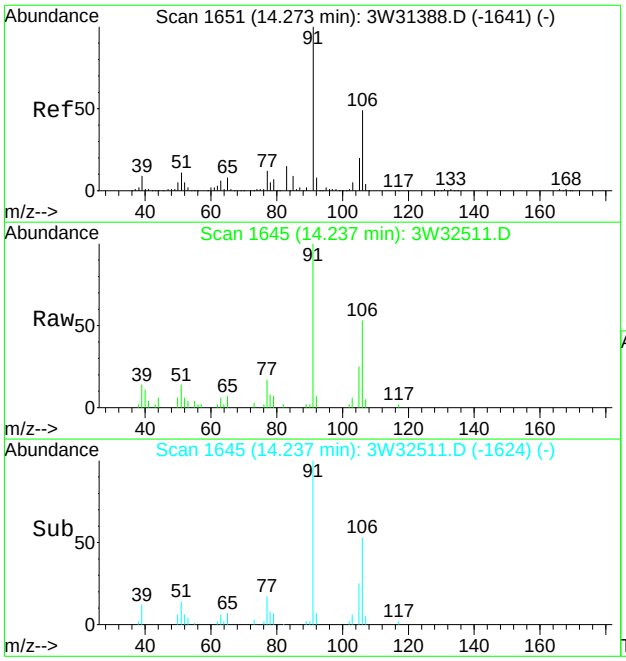


#78
m,p-XYLENE
Concen: 1.03 PPBV
RT: 13.72 min Scan# 1560
Delta R.T. -0.04 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion:106 Resp: 16970

Ion	Ratio	Lower	Upper
106	100		
91	205.9	176.7	216.7
77	28.8	6.4	46.4

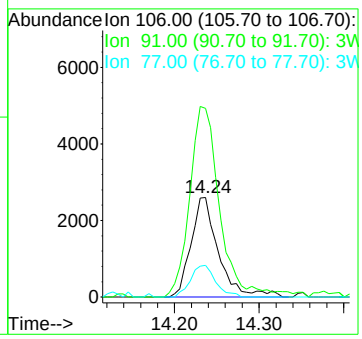


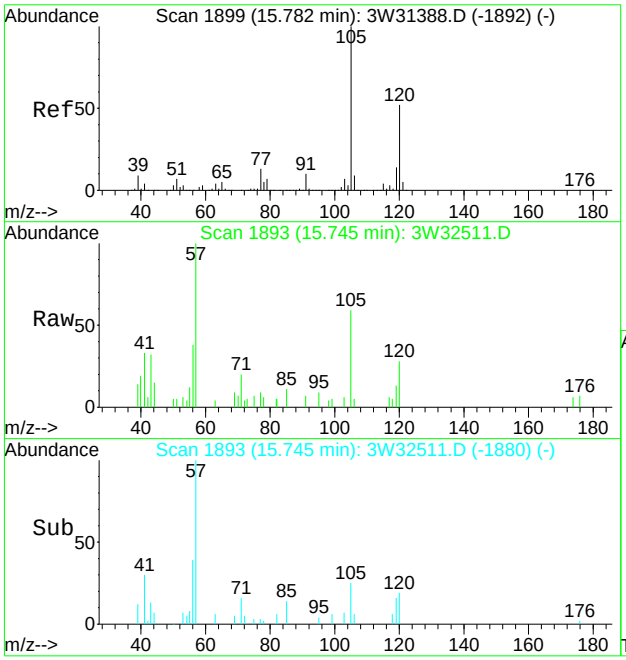


#79
o-XYLENE
Concen: 0.36 PPBV
RT: 14.24 min Scan# 1645
Delta R.T. -0.02 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion:106 Resp: 5868

Ion	Ratio	Lower	Upper
106	100		
91	210.6	190.5	230.5
77	29.2	5.9	45.9

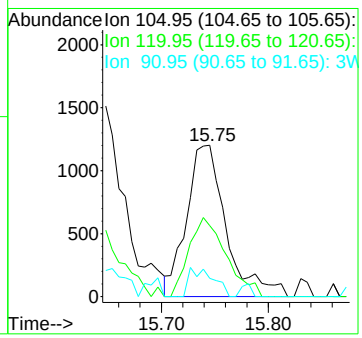


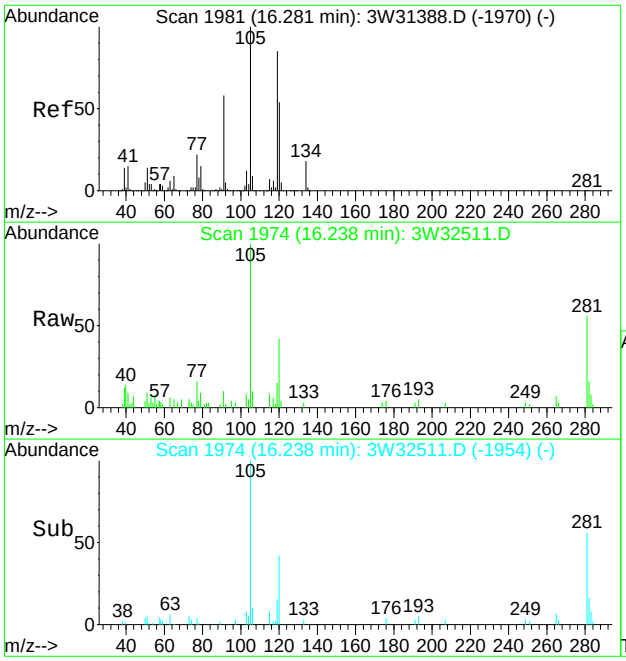


#91
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 15.75 min Scan# 1893
Delta R.T. -0.02 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion:105 Resp: 3101

Ion	Ratio	Lower	Upper
105	100		
120	49.0	30.2	70.2
91	11.7	0.0	30.3

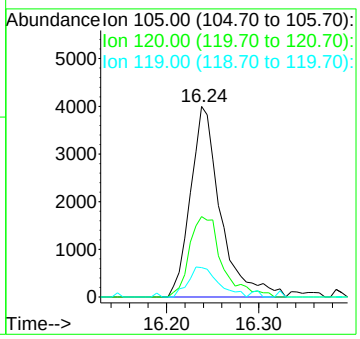




#94
1,2,4-TRIMETHYLBENZENE
Concen: 0.34 PPBV
RT: 16.24 min Scan# 1974
Delta R.T. -0.03 min
Lab File: 3W32511.D
Acq: 2 Mar 2013 5:44 am

Tgt Ion:105 Resp: 9033

Ion	Ratio	Lower	Upper
105	100		
120	45.7	38.9	78.9
119	15.5	106.9	146.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37580.D
Acq On : 28 Feb 2013 1:46 pm
Operator : YOUMINH
Sample : mb
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 09:11:59 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

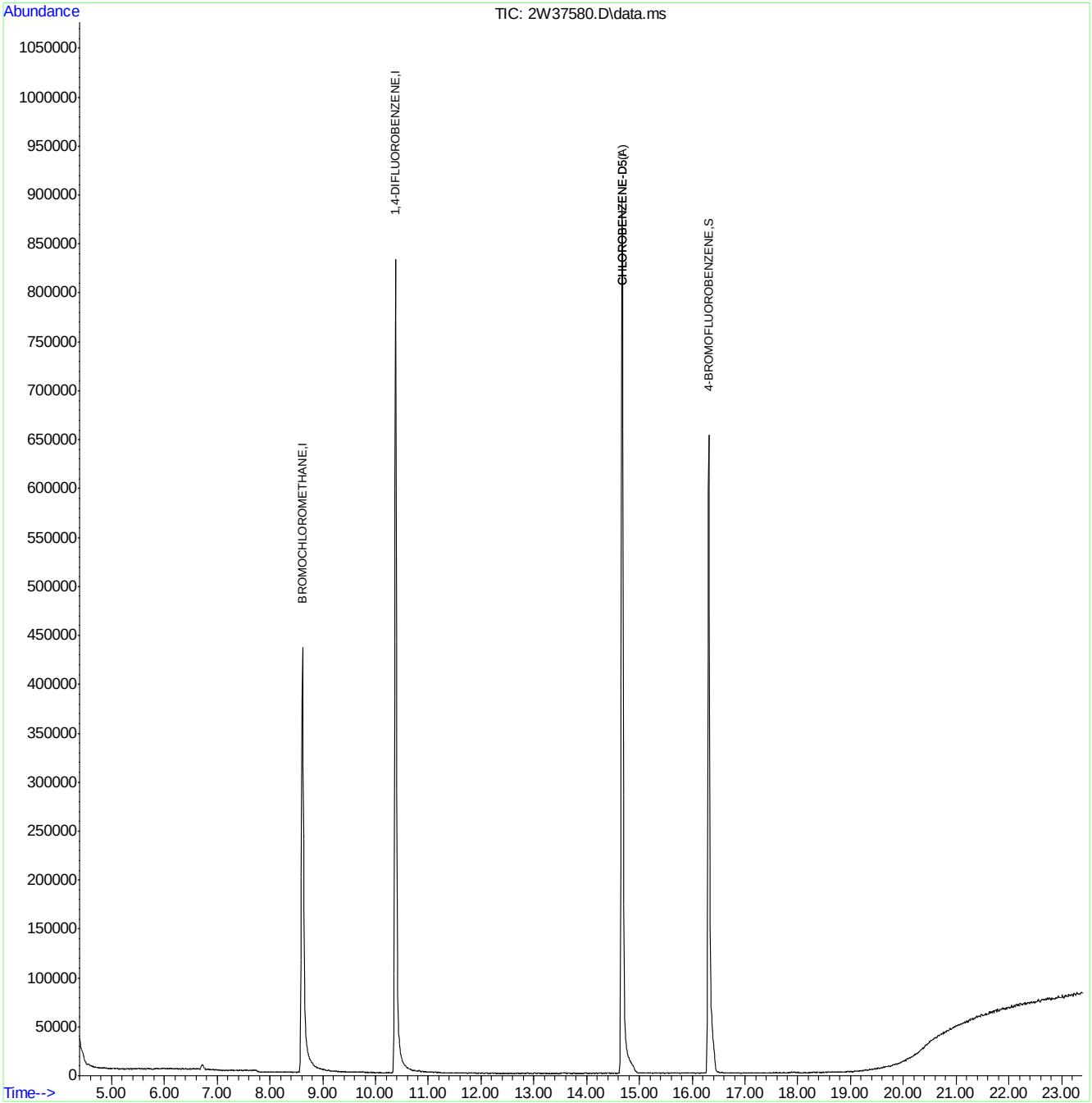
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.618	128	208910	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	10.379	114	929094	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	14.671	82	416253	10.00	PPBV	# 0.00
104) CHLOROBENZENE-D5(A)	14.671	82	416253	10.00	PPBV	# 0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	16.311	95	343906	8.11	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 81.10%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37580.D
Acq On : 28 Feb 2013 1:46 pm
Operator : YOUMINH
Sample : mb
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 09:11:59 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32491.D Vial: 5
Acq On : 1 Mar 2013 3:52 pm Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:17 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

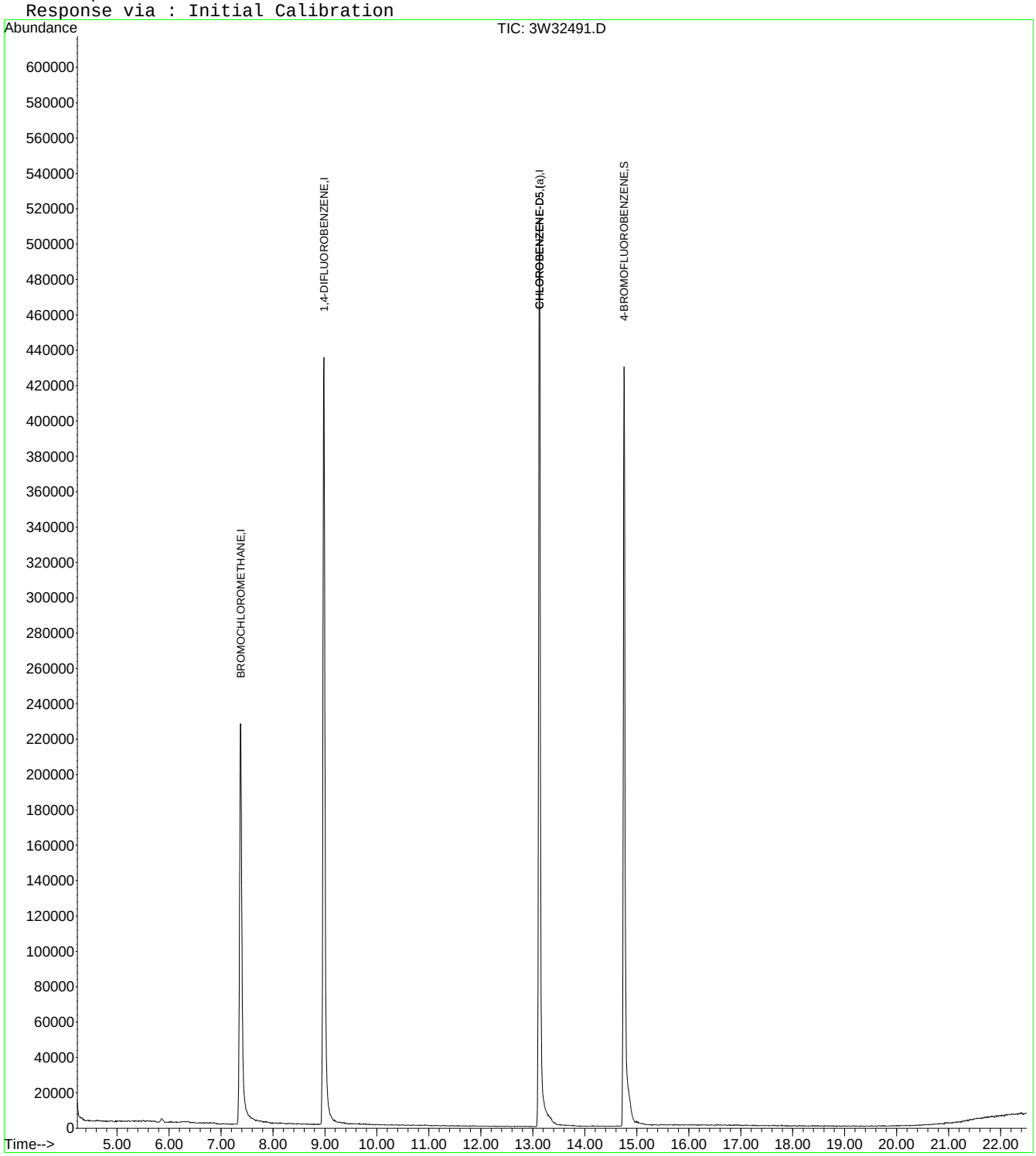
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.37	128	104238	10.00	PPBV	-0.03
49) 1,4-DIFLUOROBENZENE	8.98	114	533493	10.00	PPBV	-0.03
68) CHLOROBENZENE-D5	13.12	82	232886	10.00	PPBV	-0.03
105) CHLOROBENZENE-D5 (a)	13.12	82	233872	10.00	PPBV	-0.03
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.75	95	207719	8.97	PPBV	-0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 89.70%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32491.D M3W1230.M Mon Mar 04 10:24:34 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32491.D Vial: 5
Acq On : 1 Mar 2013 3:52 pm Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:54 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration



3W32491.D M3W1230.M Mon Mar 04 10:24:35 2013 MS3W Page 2

ACCUTEST LABORATORIES
JB29729

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32170.D Vial: 5
Acq On : 6 Feb 2013 12:29 pm Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:00:28 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

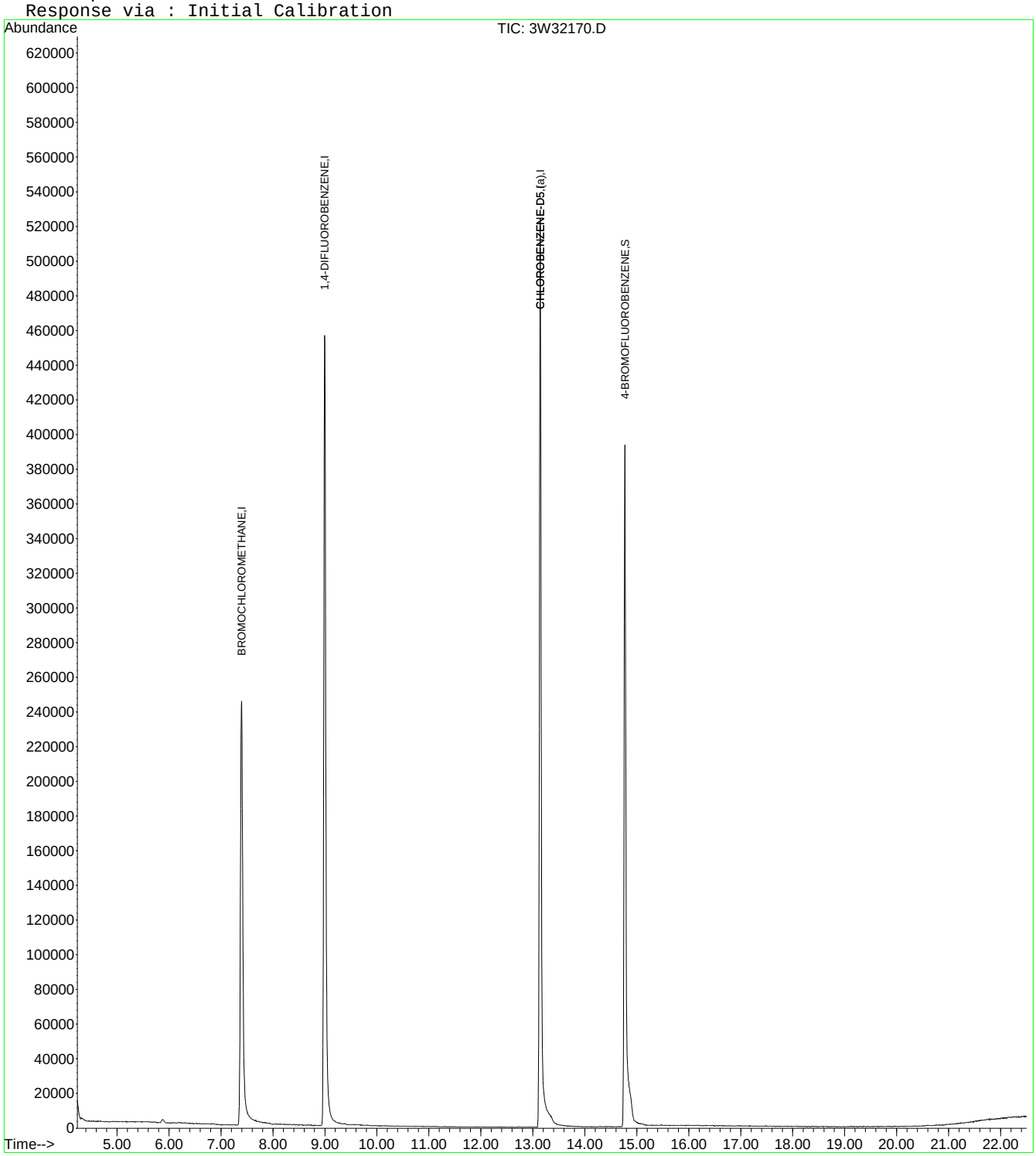
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	119793	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	586119	10.00	PPBV	-0.01
68) CHLOROBENZENE-D5	13.14	82	240475	10.00	PPBV	-0.01
105) CHLOROBENZENE-D5 (a)	13.14	82	241510	10.00	PPBV	-0.01
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.77	95	202755	8.48	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 84.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32170.D M3W1230.M Thu Feb 07 10:02:46 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32170.D Vial: 5
Acq On : 6 Feb 2013 12:29 pm Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:07 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37578.D
Acq On : 28 Feb 2013 10:05 am
Operator : YOUMINH
Sample : bs
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:10:48 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.612	128	225689	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	1052768	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	498735	10.00	PPBV		0.00
104) CHLOROBENZENE-D5(A)	14.671	82	498735	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	530504	10.44	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.40%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	822033	8.79	PPBV		99
4) FREON 152A	4.454	65	200834	8.16	PPBV		96
5) CHLORODIFLUOROMETHANE	4.490	67	85536	8.83	PPBV		99
6) PROPYLENE	4.527	41	219244	8.45	PPBV		96
7) FREON 114	4.814	85	838225	9.73	PPBV		97
8) CHLOROMETHANE	4.734	52	73202	7.74	PPBV		96
9) VINYL CHLORIDE	4.929	62	264942	7.88	PPBV		100
10) 1,3-BUTADIENE	5.045	54	197102	8.04	PPBV		97
11) n-BUTANE	5.088	43	341826	6.93	PPBV		97
12) BROMOMETHANE	5.283	94	250768	8.81	PPBV		100
13) CHLOROETHANE	5.429	64	138658	7.91	PPBV		98
14) DICHLOROFLUOROMETHANE	5.490	67	598537	8.56	PPBV		99
15) ACROLEIN	5.813	56	71183	9.04	PPBV		97
16) FREON 123	5.832	83	607010	9.94	PPBV	#	99
17) FREON 123A	5.874	117	368068	10.84	PPBV		87
18) TRICHLOROFLUOROMETHANE	6.076	101	800091	9.81	PPBV		99
19) ISOPROPYL ALCOHOL	6.112	45	390577	9.18	PPBV		96
20) ACETONE	5.923	58	85469	7.93	PPBV	#	85
21) PENTANE	6.368	42	260848	9.33	PPBV		95
22) ACRYLONITRILE	6.313	53	153028	10.84	PPBV		98
23) TVHC as EQUIV PENTANE	5.708	TIC	1337272m	9.74	PPBV		
24) IODOMETHANE	6.569	142	624135	9.84	PPBV		95
25) 1,1-DICHLOROETHYLENE	6.618	96	279967	10.87	PPBV		99
26) CARBON DISULFIDE	7.014	76	801107	9.83	PPBV		98
27) ETHANOL	5.509	45	67487	7.71	PPBV		92
28) BROMOETHENE	5.728	106	263301	9.52	PPBV		99
29) ACETONITRILE	5.704	41	112407	8.64	PPBV		97
30) METHYLENE CHLORIDE	6.710	84	244935	10.02	PPBV		95
31) 3-CHLOROPROPENE	6.819	76	122223	11.12	PPBV	#	88
32) FREON 113	6.929	151	465514	11.80	PPBV		99
33) TRANS-1,2-DICHLOROETHY...	7.533	96	297801	9.93	PPBV		93
34) TERTIARY BUTYL ALCOHOL	6.630	59	614603	10.00	PPBV		96
35) METHYL TERTIARY BUTYL ...	7.752	73	616474	9.30	PPBV		98
36) TETRAHYDROFURAN	9.099	72	99269	9.26	PPBV	#	88
37) HEXANE	8.630	57	492323	10.13	PPBV		97
38) VINYL ACETATE	7.813	86	52877	10.95	PPBV	#	80
39) 1,1-DICHLOROETHANE	7.715	63	487156	10.33	PPBV		99
40) METHYL ETHYL KETONE	8.051	72	99301	9.16	PPBV	#	80
41) cis-1,2-DICHLOROETHYLENE	8.459	96	292186	10.59	PPBV		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37578.D
Acq On : 28 Feb 2013 10:05 am
Operator : YOUMINH
Sample : bs
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:10:48 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.624	61	67087	9.61	PPBV	#	95
43) METHYL ACRYLATE	8.630	55	415971	9.56	PPBV		98
44) CHLOROFORM	8.721	83	619332	10.61	PPBV		99
45) 2,4-DIMETHYLPENTANE	9.441	57	575042	9.52	PPBV		97
46) 1,1,1-TRICHLOROETHANE	9.648	97	616990	10.41	PPBV		98
47) CARBON TETRACHLORIDE	10.215	117	701582	10.12	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	334870	9.69	PPBV		99
50) BENZENE	10.081	78	783004	10.75	PPBV		98
51) CYCLOHEXANE	10.337	84	420178	9.77	PPBV		96
52) 2,3-DIMETHYLPENTANE	10.532	71	216811	10.38	PPBV		98
53) DIBROMOMETHANE	10.825	174	292005	9.81	PPBV		96
54) TRICHLOROETHYLENE	11.062	95	389277	10.21	PPBV		99
55) 1,2-DICHLOROPROPANE	10.843	63	262488	9.68	PPBV		99
56) ETHYL ACRYLATE	10.794	55	434951	9.18	PPBV		98
57) BROMODICHLOROMETHANE	11.026	83	609409	10.19	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.081	57	1410020	10.36	PPBV		98
59) 1,4-DIOXANE	11.062	88	129635	9.71	PPBV	#	18
60) METHYL METHACRYLATE	11.221	69	223844	9.64	PPBV		91
61) HEPTANE	11.318	43	516394	10.36	PPBV		94
62) TVHC as EQUIV HEPTANE	11.318	TIC	2710735	10.95	PPBV		100
63) METHYL ISOBUTYL KETONE	11.910	58	184266	9.63	PPBV		93
64) cis-1,3-DICHLOROPROPENE	11.885	75	385446	10.06	PPBV		97
65) TOLUENE	12.861	92	489395	10.22	PPBV		98
66) trans-1,3-DICHLOROPROPENE	12.391	75	346142	9.60	PPBV		97
67) 1,1,2-TRICHLOROETHANE	12.580	83	235578	9.78	PPBV		100
69) 2-HEXANONE	13.092	58	249364	11.64	PPBV		94
70) ETHYL METHACRYLATE	13.086	69	371580	11.17	PPBV		99
71) TETRACHLOROETHYLENE	14.013	164	349147	9.40	PPBV		99
72) DIBROMOCHLOROMETHANE	13.294	129	499877	11.44	PPBV		100
73) 1,2-DIBROMOETHANE	13.550	107	371334	10.96	PPBV		100
74) OCTANE	13.818	43	573276	11.00	PPBV		96
75) 1,1,1,2-TETRACHLOROETHANE	14.696	131	349282	11.26	PPBV		99
76) CHLOROBENZENE	14.720	112	589208	11.12	PPBV		98
77) ETHYLBENZENE	15.104	91	961435	11.04	PPBV		100
78) m,p-XYLENE	15.293	106	745441	22.70	PPBV		99
79) o-XYLENE	15.805	106	362623	11.40	PPBV		97
80) STYRENE	15.683	104	513984	12.37	PPBV		98
81) NONANE	16.013	43	554035	12.10	PPBV		96
82) BROMOFORM	15.403	173	407312	11.28	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	493189	12.33	PPBV		99
85) ISOPROPYLBENZENE	16.445	105	1058732	11.27	PPBV		99
86) BROMOBENZENE	16.561	156	276437	11.18	PPBV		99
87) 2-CHLOROTOLUENE	16.976	126	230181	11.38	PPBV	#	100
88) n-PROPYLBENZENE	17.000	120	259307	11.98	PPBV		99
89) 4-ETHYLTOLUENE	17.153	105	871514	12.33	PPBV		100
90) 1,3,5-TRIMETHYLBENZENE	17.232	105	759430	11.42	PPBV		99
91) ALPHA-METHYLSTYRENE	17.409	118	336261	12.45	PPBV		99
92) TERT-BUTYLBENZENE	17.671	134	189419	12.06	PPBV		97
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	713319	12.12	PPBV		96
94) m-DICHLOROBENZENE	17.854	146	388432	12.30	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37578.D
Acq On : 28 Feb 2013 10:05 am
Operator : YOUMINH
Sample : bs
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:10:48 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

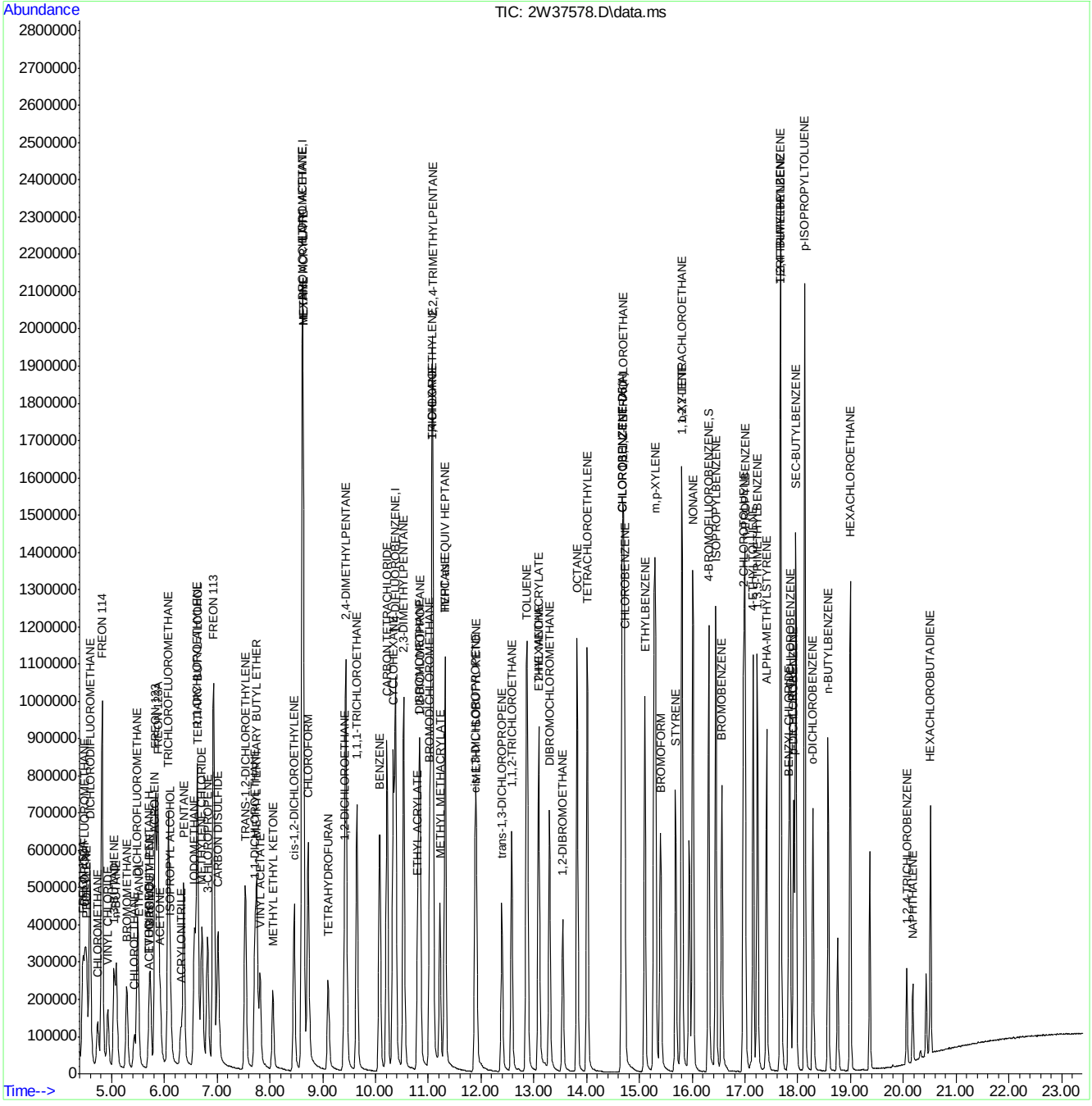
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.829	91	445999	12.66	PPBV	99
96)	p-DICHLOROBENZENE	17.921	146	360019	11.57	PPBV	99
97)	SEC-BUTYLBENZENE	17.963	134	212062	12.47	PPBV	94
98)	p-ISOPROPYLTOLUENE	18.128	134	205966	12.84	PPBV	95
99)	o-DICHLOROBENZENE	18.287	146	345325	12.31	PPBV	99
100)	n-BUTYLBENZENE	18.579	91	567258	13.11	PPBV	99
101)	HEXACHLOROETHANE	18.994	201	247995	12.33	PPBV	95
102)	HEXACHLOROBUTADIENE	20.512	225	125703	11.09	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	20.067	180	87316	12.89	PPBV	99
105)	NAPHTHALENE	20.176	128	176911	14.85	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37578.D
Acq On : 28 Feb 2013 10:05 am
Operator : YOUMINH
Sample : bs
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

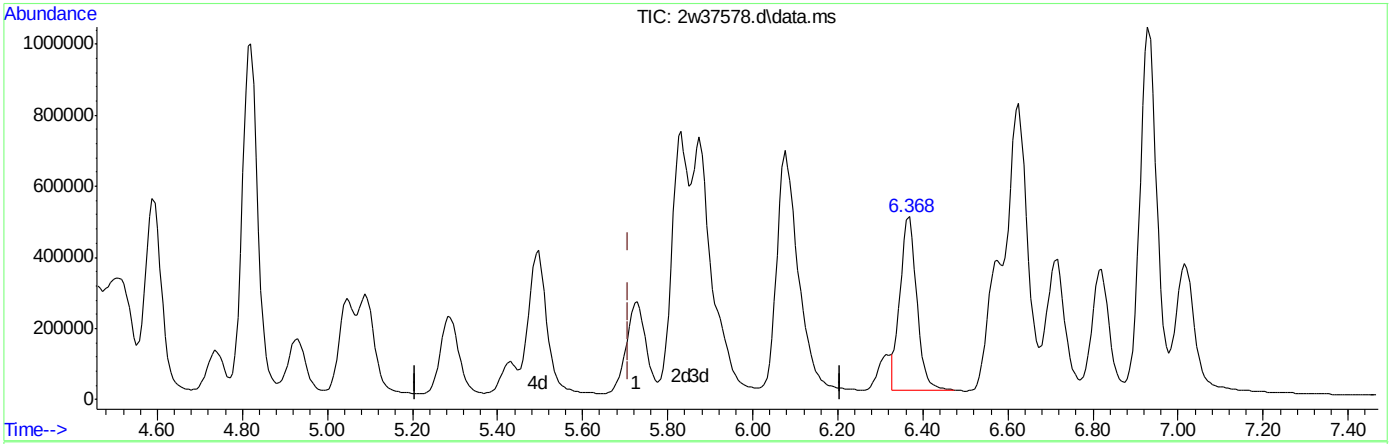
Quant Time: Mar 01 09:10:48 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\
Data File : 2w37578.d
Acq On : 28 Feb 2013 10:05 am
Operator : YOUMINH
Sample : bs
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:10:48 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration



TIC: 2w37578.d\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 9.74PPBV m

response 1337272

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	0.00
0.00	1.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37579.D
Acq On : 28 Feb 2013 12:22 pm
Operator : YOUMINH
Sample : bsd
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:11:23 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	220230	10.00	PPBV	#	0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	1099760	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	553171	10.00	PPBV		0.00
104) CHLOROBENZENE-D5(A)	14.671	82	553171	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	643855	11.42	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 114.20%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	865045	9.48	PPBV		99
4) FREON 152A	4.460	65	204682	8.52	PPBV		94
5) CHLORODIFLUOROMETHANE	4.503	67	89307	9.45	PPBV		97
6) PROPYLENE	4.533	41	221319	8.74	PPBV		96
7) FREON 114	4.820	85	889340	10.58	PPBV		98
8) CHLOROMETHANE	4.740	52	75214	8.15	PPBV		92
9) VINYL CHLORIDE	4.935	62	275222	8.39	PPBV		100
10) 1,3-BUTADIENE	5.051	54	204472	8.55	PPBV		95
11) n-BUTANE	5.094	43	352173	7.32	PPBV		96
12) BROMOMETHANE	5.289	94	264542	9.52	PPBV		99
13) CHLOROETHANE	5.435	64	139371	8.15	PPBV		98
14) DICHLOROFLUOROMETHANE	5.496	67	598273	8.77	PPBV		99
15) ACROLEIN	5.819	56	65217	8.49	PPBV		99
16) FREON 123	5.832	83	625621	10.50	PPBV	#	98
17) FREON 123A	5.880	117	390524	11.79	PPBV		86
18) TRICHLOROFLUOROMETHANE	6.081	101	840839	10.56	PPBV		99
19) ISOPROPYL ALCOHOL	6.112	45	344021	8.28	PPBV		96
20) ACETONE	5.929	58	79656	7.57	PPBV	#	88
21) PENTANE	6.374	42	248038	9.09	PPBV		94
22) ACRYLONITRILE	6.319	53	140617	10.20	PPBV		98
23) TVHC as EQUIV PENTANE	5.708	TIC	1288492m	9.62	PPBV		
24) IODOMETHANE	6.581	142	680440	10.99	PPBV		97
25) 1,1-DICHLOROETHYLENE	6.624	96	297967	11.86	PPBV		95
26) CARBON DISULFIDE	7.020	76	806287	10.14	PPBV		97
27) ETHANOL	5.508	45	61555	7.21	PPBV		93
28) BROMOETHENE	5.734	106	278982	10.34	PPBV		99
29) ACETONITRILE	5.710	41	103498	8.15	PPBV		97
30) METHYLENE CHLORIDE	6.722	84	249881	10.47	PPBV		90
31) 3-CHLOROPROPENE	6.825	76	111988	10.44	PPBV	#	80
32) FREON 113	6.935	151	491451	12.77	PPBV		96
33) TRANS-1,2-DICHLOROETHY...	7.539	96	303402	10.37	PPBV		90
34) TERTIARY BUTYL ALCOHOL	6.636	59	583373	9.72	PPBV		97
35) METHYL TERTIARY BUTYL ...	7.758	73	587554	9.08	PPBV		95
36) TETRAHYDROFURAN	9.111	72	94108	8.99	PPBV	#	80
37) HEXANE	8.636	57	468393	9.87	PPBV		95
38) VINYL ACETATE	7.819	86	50875	10.79	PPBV	#	63
39) 1,1-DICHLOROETHANE	7.721	63	436146	9.48	PPBV		99
40) METHYL ETHYL KETONE	8.057	72	95193	9.00	PPBV	#	76
41) cis-1,2-DICHLOROETHYLENE	8.465	96	287400	10.67	PPBV		90

Data Path : C:\msdchem\1\DATA\
Data File : 2W37579.D
Acq On : 28 Feb 2013 12:22 pm
Operator : YOUMINH
Sample : bsd
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:11:23 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.630	61	67894	9.97	PPBV	#	65
43) METHYL ACRYLATE	8.630	55	380828	8.97	PPBV		97
44) CHLOROFORM	8.727	83	630226	11.06	PPBV		98
45) 2,4-DIMETHYLPENTANE	9.447	57	557462	9.46	PPBV		98
46) 1,1,1-TRICHLOROETHANE	9.648	97	606739	10.49	PPBV		97
47) CARBON TETRACHLORIDE	10.221	117	722840	10.69	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	314148	9.31	PPBV		99
50) BENZENE	10.081	78	739571	9.72	PPBV		97
51) CYCLOHEXANE	10.343	84	425867	9.48	PPBV		91
52) 2,3-DIMETHYLPENTANE	10.538	71	216141	9.91	PPBV		93
53) DIBROMOMETHANE	10.831	174	299513	9.64	PPBV		98
54) TRICHLOROETHYLENE	11.068	95	408353	10.25	PPBV		100
55) 1,2-DICHLOROPROPANE	10.849	63	241996	8.54	PPBV		98
56) ETHYL ACRYLATE	10.800	55	398932	8.06	PPBV		97
57) BROMODICHLOROMETHANE	11.032	83	601157	9.62	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	1386858	9.75	PPBV		99
59) 1,4-DIOXANE	11.068	88	123224	8.84	PPBV	#	1
60) METHYL METHACRYLATE	11.221	69	208928	8.62	PPBV		87
61) HEPTANE	11.324	43	495354	9.51	PPBV		91
62) TVHC as EQUIV HEPTANE	11.324	TIC	2659868	10.28	PPBV		100
63) METHYL ISOBUTYL KETONE	11.910	58	179501	8.98	PPBV	#	88
64) cis-1,3-DICHLOROPROPENE	11.891	75	376171	9.40	PPBV		96
65) TOLUENE	12.867	92	482074	9.64	PPBV		97
66) trans-1,3-DICHLOROPROPENE	12.397	75	336614	8.93	PPBV		96
67) 1,1,2-TRICHLOROETHANE	12.580	83	227510	9.04	PPBV		100
69) 2-HEXANONE	13.098	58	220567	9.28	PPBV		91
70) ETHYL METHACRYLATE	13.092	69	371099	10.05	PPBV		97
71) TETRACHLOROETHYLENE	14.013	164	379690	9.22	PPBV		99
72) DIBROMOCHLOROMETHANE	13.300	129	504036	10.40	PPBV		100
73) 1,2-DIBROMOETHANE	13.550	107	372625	9.92	PPBV		100
74) OCTANE	13.824	43	521484	9.02	PPBV		91
75) 1,1,1,2-TETRACHLOROETHANE	14.696	131	349156	10.15	PPBV		99
76) CHLOROBENZENE	14.720	112	585890	9.97	PPBV		97
77) ETHYLBENZENE	15.104	91	926772	9.60	PPBV		99
78) m,p-XYLENE	15.293	106	732924	20.12	PPBV		95
79) o-XYLENE	15.805	106	358745	10.17	PPBV		95
80) STYRENE	15.689	104	509155	11.05	PPBV		97
81) NONANE	16.012	43	489366	9.64	PPBV		93
82) BROMOFORM	15.403	173	420161	10.49	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	463954	10.46	PPBV		99
85) ISOPROPYLBENZENE	16.451	105	1039160	9.97	PPBV		99
86) BROMOBENZENE	16.567	156	280410	10.23	PPBV		97
87) 2-CHLOROTOLUENE	16.976	126	228055	10.17	PPBV	#	95
88) n-PROPYLBENZENE	17.000	120	255869	10.65	PPBV		97
89) 4-ETHYLTOLUENE	17.152	105	855677	10.92	PPBV		99
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	743613	10.08	PPBV		98
91) ALPHA-METHYLSTYRENE	17.409	118	337189	11.26	PPBV		99
92) TERT-BUTYLBENZENE	17.671	134	184186	10.57	PPBV		96
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	702365	10.76	PPBV		97
94) m-DICHLOROBENZENE	17.854	146	392892	11.22	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37579.D
Acq On : 28 Feb 2013 12:22 pm
Operator : YOUMINH
Sample : bsd
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:11:23 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

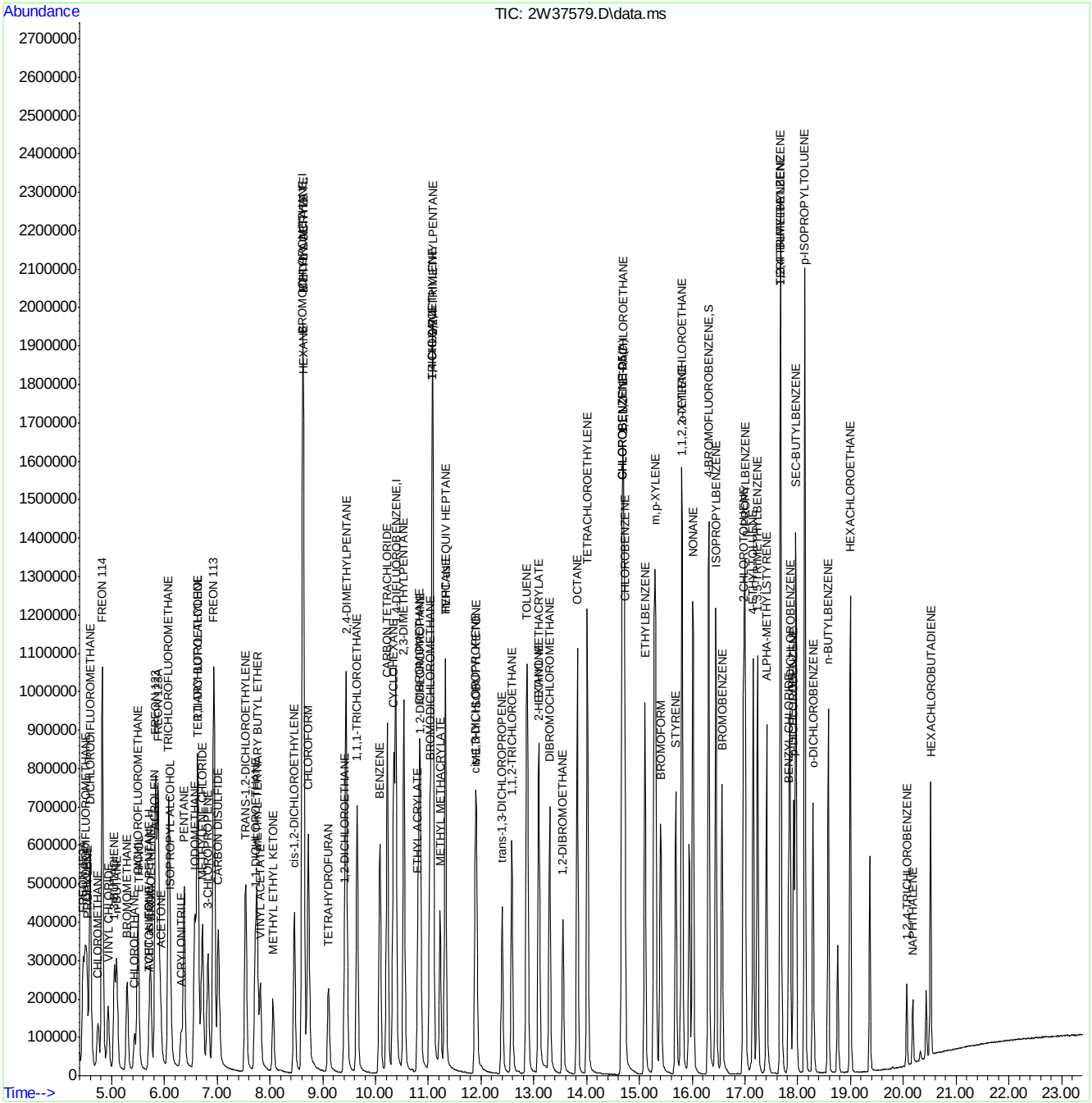
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.829	91	436790	11.18	PPBV	99
96)	p-DICHLOROBENZENE	17.921	146	366651	10.62	PPBV	99
97)	SEC-BUTYLBENZENE	17.963	134	212512	11.27	PPBV	98
98)	p-ISOPROPYLTOLUENE	18.128	134	207148	11.65	PPBV	96
99)	o-DICHLOROBENZENE	18.293	146	349763	11.24	PPBV	99
100)	n-BUTYLBENZENE	18.579	91	589258	12.28	PPBV	99
101)	HEXACHLOROETHANE	18.994	201	237852	10.66	PPBV	98
102)	HEXACHLOROBUTADIENE	20.518	225	137969	10.98	PPBV	99
103)	1,2,4-TRICHLOROBENZENE	20.067	180	72458	9.65	PPBV	99
105)	NAPHTHALENE	20.176	128	143389	10.85	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37579.D
Acq On : 28 Feb 2013 12:22 pm
Operator : YOUMINH
Sample : bsd
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

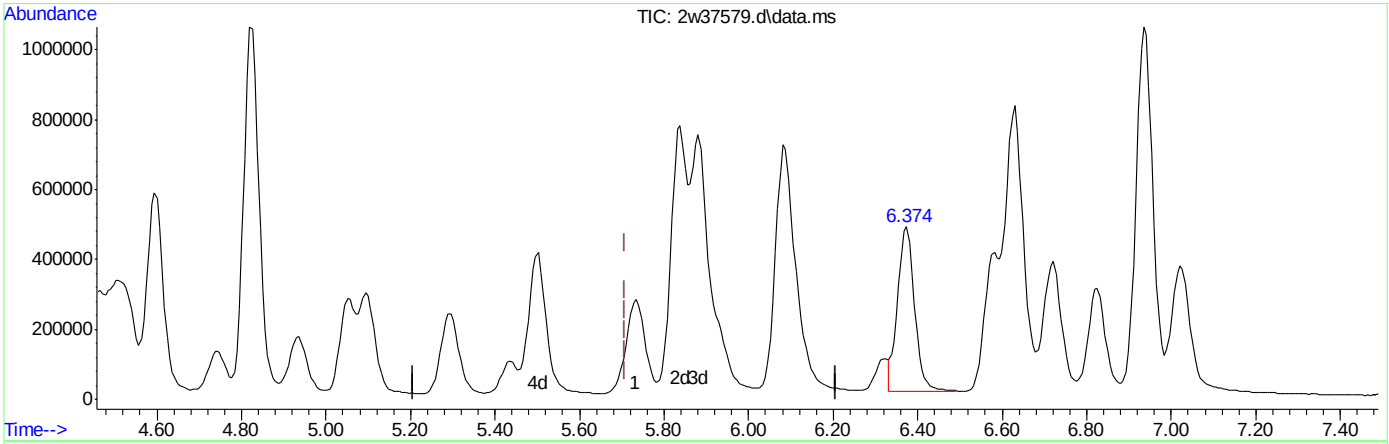
Quant Time: Mar 01 09:11:23 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

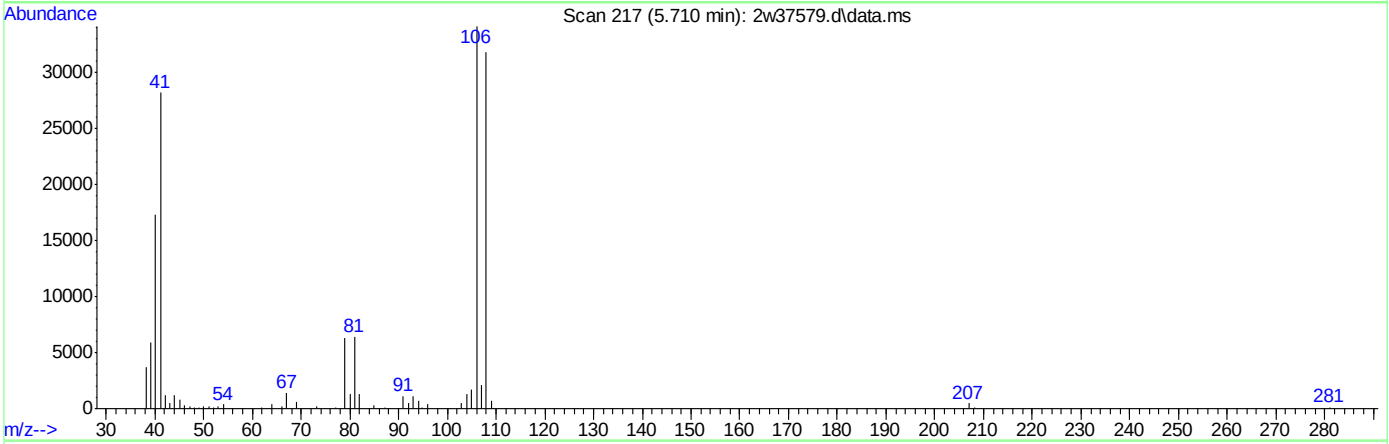


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\
Data File : 2w37579.d
Acq On : 28 Feb 2013 12:22 pm
Operator : YOUMINH
Sample : bsd
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:11:23 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration





TIC: 2w37579.d\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 9.62PPBV m

response 1288492

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	0.00
0.00	1.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32489.D Vial: 3
Acq On : 1 Mar 2013 1:35 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:11 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.39	128	104124	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	8.99	114	533728	10.00	PPBV	-0.02
68) CHLOROBENZENE-D5	13.13	82	271228	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.13	82	272500	10.00	PPBV	-0.02
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.77	95	287540	10.66	PPBV	-0.02
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.60%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	104067	9.84	PPBV	95
4) CHLORODIFLUOROMETHANE	4.34	67	32385	8.50	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.40	85	335160	9.24	PPBV	99
6) PROPYLENE	4.36	41	142730	10.59	PPBV	99
7) FREON 114	4.54	85	425094	10.04	PPBV	99
8) CHLOROMETHANE	4.50	50	191713	10.68	PPBV	100
9) VINYL CHLORIDE	4.62	62	174969	10.70	PPBV	100
10) 1,3-BUTADIENE	4.69	54	129543	10.51	PPBV	99
11) n-BUTANE	4.71	43	282379	10.18	PPBV	99
12) BROMOMETHANE	4.86	94	148291	10.20	PPBV	99
13) CHLOROETHANE	4.95	64	92333	10.64	PPBV	98
14) DICHLOROFLUOROMETHANE	4.99	67	337628	9.86	PPBV	100
15) ACETONITRILE	5.18	41	130845	11.76	PPBV	98
16) FREON 123	5.21	83	358980	9.96	PPBV	99
17) FREON 123A	5.25	117	191389	9.52	PPBV	96
18) TRICHLOROFLUOROMETHANE	5.38	101	331031	9.46	PPBV	99
19) ISOPROPYL ALCOHOL	5.45	45	287470	10.46	PPBV	99
20) ACETONE	5.29	58	74256	10.58	PPBV	97
21) PENTANE	5.56	42	181366	10.61	PPBV	97
22) TVHC as EQUIV PENTANE	5.56	TIC	1030565m	10.51	PPBV	
23) IODOMETHANE	5.74	142	384646	10.03	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.77	96	152315	10.09	PPBV	100
25) CARBON DISULFIDE	6.05	76	435934	10.02	PPBV	99
26) ETHANOL	5.05	45	70839	10.71	PPBV	99
27) BROMOETHENE	5.15	106	151194	10.17	PPBV	100
28) ACRYLONITRILE	5.59	52	99862	11.62	PPBV	100
29) METHYLENE CHLORIDE	5.87	84	131443	9.01	PPBV	96
30) 3-CHLOROPROPENE	5.92	76	69181	10.21	PPBV	95
31) FREON 113	6.00	151	237632	9.71	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.46	96	141600	10.18	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.80	59	314847	10.26	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.62	73	386999	9.48	PPBV	97
35) TETRAHYDROFURAN	7.78	72	70343	10.39	PPBV #	90
36) HEXANE	7.31	57	252369	10.38	PPBV	99
37) VINYL ACETATE	6.72	86	31673	10.64	PPBV #	76
38) 1,1-DICHLOROETHANE	6.61	63	292243	10.10	PPBV	100
39) METHYL ETHYL KETONE	6.89	72	71833	10.77	PPBV #	84
40) cis-1,2-DICHLOROETHYLENE	7.26	96	150601	10.13	PPBV	98
41) DIISOPROPYL ETHER	7.33	45	616284	11.06	PPBV	99
42) ETHYL ACETATE	7.39	61	59632	10.90	PPBV	99
43) METHYL ACRYLATE	7.40	55	265191	11.15	PPBV	98
44) CHLOROFORM	7.47	83	290030	9.74	PPBV	100
45) 2,4-DIMETHYLPENTANE	8.01	57	320719	10.61	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.26	97	273366	9.24	PPBV	99
47) CARBON TETRACHLORIDE	8.80	117	279632	9.36	PPBV	100
48) 1,2-DICHLOROETHANE	8.06	62	162592	9.10	PPBV	99
50) BENZENE	8.67	78	467178	9.35	PPBV	99
51) CYCLOHEXANE	8.83	84	241706	9.12	PPBV	96

(#) = qualifier out of range (m) = manual integration
3W32489.D M3W1230.M Mon Mar 04 10:23:55 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32489.D Vial: 3
Acq On : 1 Mar 2013 1:35 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:11 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

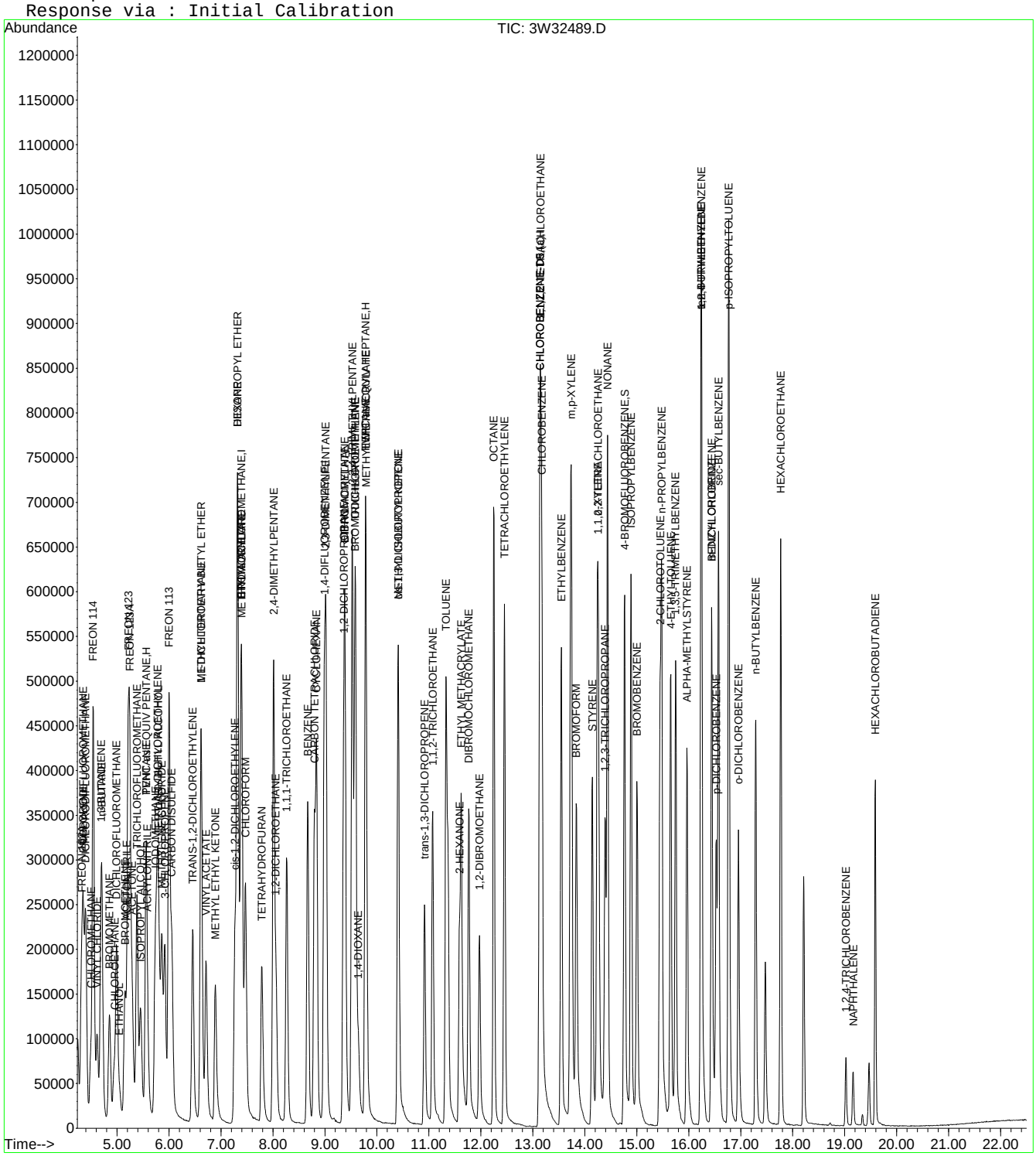
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	2,3-DIMETHYLPENTANE	9.02	71	110234	8.87	PPBV		96
53)	TRICHLOROETHYLENE	9.59	95	180939	8.87	PPBV		99
54)	1,2-DICHLOROPROPANE	9.36	63	195730	9.95	PPBV		95
55)	DIBROMOMETHANE	9.38	174	168836	9.28	PPBV		99
56)	ETHYL ACRYLATE	9.39	55	335385	10.37	PPBV		99
57)	BROMODICHLOROMETHANE	9.57	83	309197	9.25	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.52	57	821610	9.58	PPBV		100
59)	1,4-DIOXANE	9.64	88	86662	9.03	PPBV		95
60)	HEPTANE	9.78	43	330645	10.12	PPBV		96
61)	TVHC as EQUIV HEPTANE	9.78	TIC	2004658m	9.94	PPBV		
62)	METHYL METHACRYLATE	9.80	69	165056	10.06	PPBV		95
63)	METHYL ISOBUTYL KETONE	10.40	58	126555	10.62	PPBV		90
64)	cis-1,3-DICHLOROPROPENE	10.42	75	237586	9.95	PPBV		99
65)	TOLUENE	11.33	92	295131	9.45	PPBV		98
66)	trans-1,3-DICHLOROPROPENE	10.91	75	201147	9.43	PPBV		97
67)	1,1,2-TRICHLOROETHANE	11.07	83	156279	10.12	PPBV		98
69)	2-HEXANONE	11.58	58	171167	11.75	PPBV		93
70)	ETHYL METHACRYLATE	11.62	69	254508	10.75	PPBV		97
71)	TETRACHLOROETHYLENE	12.45	164	190233	8.78	PPBV		97
72)	DIBROMOCHLOROMETHANE	11.77	129	280186	9.13	PPBV		100
73)	1,2-DIBROMOETHANE	11.97	107	221672	9.50	PPBV		99
74)	OCTANE	12.25	43	445075	10.53	PPBV		93
75)	1,1,1,2-TETRACHLOROETHANE	13.15	131	208805	9.18	PPBV		100
76)	CHLOROBENZENE	13.18	112	334619	8.97	PPBV		98
77)	ETHYLBENZENE	13.55	91	566266	9.40	PPBV		99
78)	m,p-XYLENE	13.74	106	408565	18.43	PPBV		99
79)	o-XYLENE	14.24	106	206445	9.53	PPBV		99
80)	STYRENE	14.15	104	278776	10.44	PPBV		99
81)	NONANE	14.44	43	388205	10.79	PPBV		96
82)	BROMOFORM	13.84	173	249429	10.18	PPBV		100
84)	1,1,2,2-TETRACHLOROETHANE	14.26	83	316430	10.45	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.39	75	235157	9.83	PPBV		97
86)	ISOPROPYLBENZENE	14.89	105	583833	9.34	PPBV		99
87)	BROMOBENZENE	15.00	77	260246	9.68	PPBV		99
88)	2-CHLOROTOLUENE	15.45	126	136499	9.45	PPBV		99
89)	n-PROPYLBENZENE	15.48	120	142900	9.38	PPBV		99
90)	4-ETHYLTOLUENE	15.65	105	465879	10.15	PPBV		98
91)	1,3,5-TRIMETHYLBENZENE	15.75	105	415481	10.08	PPBV		99
92)	ALPHA-METHYLSTYRENE	15.96	118	183610	10.49	PPBV		99
93)	tert-BUTYLBENZENE	16.24	134	102219	9.29	PPBV		99
94)	1,2,4-TRIMETHYLBENZENE	16.25	105	378124	10.47	PPBV		97
95)	m-DICHLOROBENZENE	16.44	146	208595	10.35	PPBV		99
96)	BENZYL CHLORIDE	16.44	91	259996	11.01	PPBV		99
97)	p-DICHLOROBENZENE	16.53	146	197995	10.62	PPBV		99
98)	sec-BUTYLBENZENE	16.57	134	114088	9.34	PPBV		93
99)	p-ISOPROPYLTOLUENE	16.77	134	117050	9.58	PPBV		98
100)	o-DICHLOROBENZENE	16.96	146	194680	10.50	PPBV		99
101)	n-BUTYLBENZENE	17.29	134	86508	9.94	PPBV	#	90
102)	HEXACHLOROETHANE	17.77	117	174854	9.66	PPBV		99
103)	HEXACHLOROBUTADIENE	19.59	225	90564	9.04	PPBV		99
104)	1,2,4-TRICHLOROBENZENE	19.02	180	32707	7.79	PPBV		100
106)	NAPHTHALENE	19.16	128	63783	7.65	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32489.D M3W1230.M Mon Mar 04 10:23:55 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32489.D Vial: 3
Acq On : 1 Mar 2013 1:35 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: M3W1230.RES

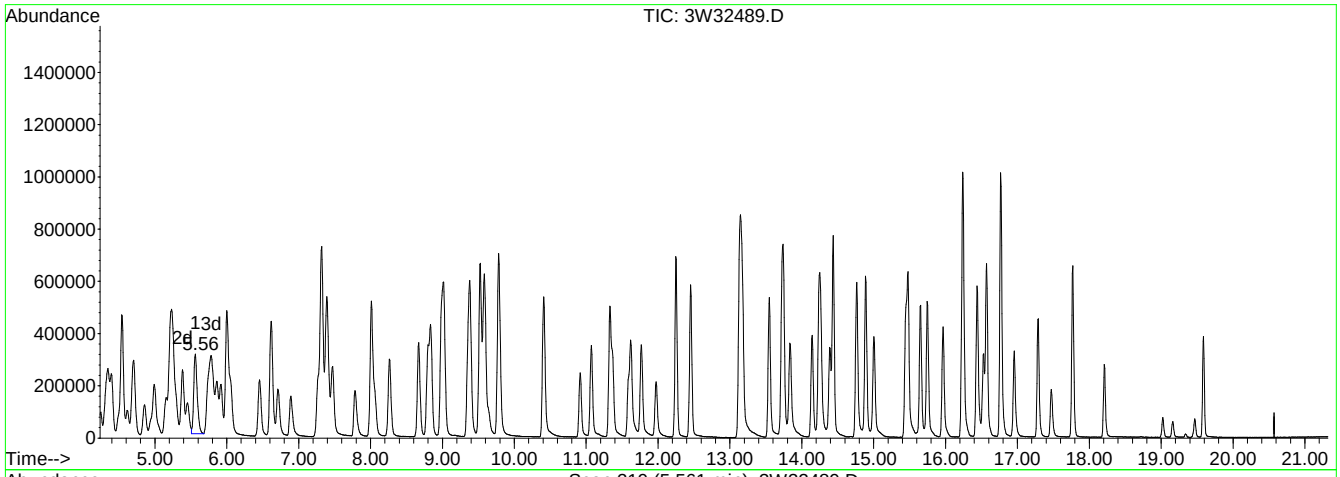
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

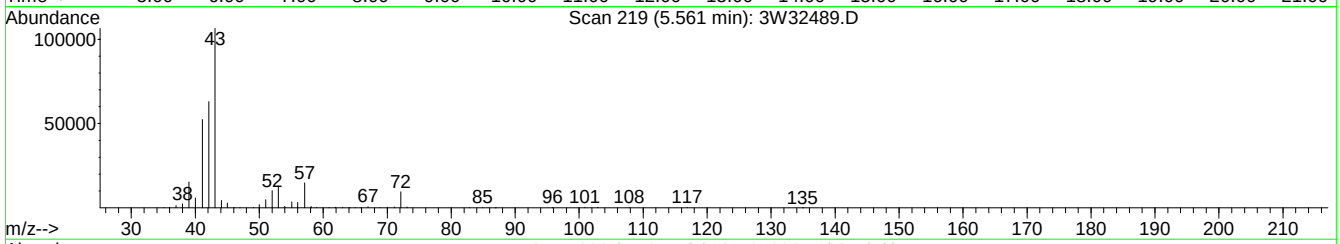


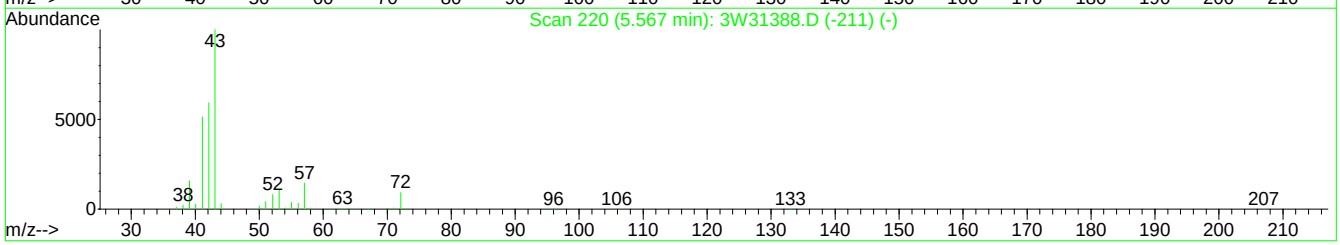
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32489.D Vial: 3
Acq On : 1 Mar 2013 1:35 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W32489.D

(22) TVHC as EQUIV PENTANE (H)

5.56min 10.51PPBV m

response 1030565

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.79#
0.00	0.80	0.65#
0.00	0.00	0.00

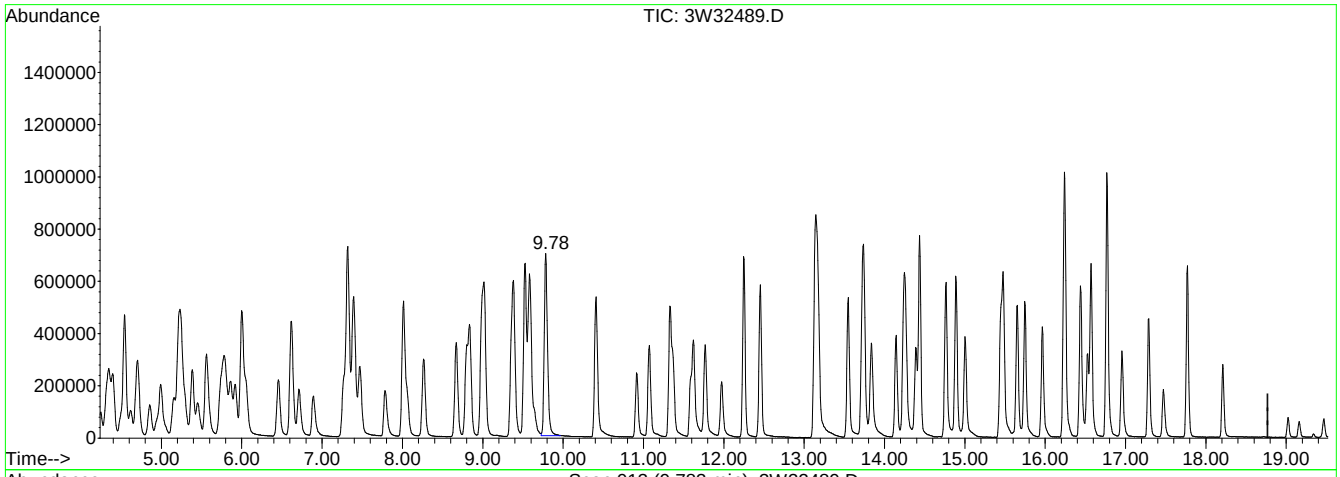
3W32489.D M3W1230.M Mon Mar 04 10:20:06 2013 MS3W

3W32489.D edits: TVHC as EQUIV PENTANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32489.D Vial: 3
Acq On : 1 Mar 2013 1:35 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W32489.D

(61) TVHC as EQUIV HEPTANE (H)

9.78min 9.94PPBV m

response 2004658

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.41#
0.00	0.40	0.33#
0.00	0.00	0.00

3W32489.D M3W1230.M Mon Mar 04 10:24:03 2013 MS3W

3W32489.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32490.D Vial: 2
Acq On : 1 Mar 2013 2:19 pm Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:14 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.39	128	108321	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	8.99	114	556777	10.00	PPBV	-0.02
68) CHLOROBENZENE-D5	13.13	82	287146	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.13	82	287449	10.00	PPBV	-0.02
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.77	95	308675	10.81	PPBV	-0.02
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.10%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	102555	9.32	PPBV	97
4) CHLORODIFLUOROMETHANE	4.34	67	31935	8.06	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.40	85	321983	8.54	PPBV	99
6) PROPYLENE	4.36	41	139453	9.95	PPBV	98
7) FREON 114	4.54	85	412165	9.36	PPBV	99
8) CHLOROMETHANE	4.50	50	186239	9.97	PPBV	100
9) VINYL CHLORIDE	4.62	62	169024	9.93	PPBV	100
10) 1,3-BUTADIENE	4.69	54	126419	9.86	PPBV	100
11) n-BUTANE	4.71	43	275160	9.54	PPBV	99
12) BROMOMETHANE	4.86	94	145307	9.60	PPBV	100
13) CHLOROETHANE	4.94	64	89787	9.94	PPBV	98
14) DICHLOROFLUOROMETHANE	4.99	67	333303	9.36	PPBV	100
15) ACETONITRILE	5.17	41	127669	11.03	PPBV	95
16) FREON 123	5.21	83	353498	9.43	PPBV	99
17) FREON 123A	5.24	117	186683	8.93	PPBV	95
18) TRICHLOROFLUOROMETHANE	5.38	101	325242	8.94	PPBV	100
19) ISOPROPYL ALCOHOL	5.45	45	281192	9.83	PPBV	99
20) ACETONE	5.29	58	71954	9.86	PPBV	97
21) PENTANE	5.56	42	178584	10.05	PPBV	96
22) TVHC as EQUIV PENTANE	5.56	TIC	1009350m	9.89	PPBV	
23) IODOMETHANE	5.74	142	378132	9.48	PPBV	97
24) 1,1-DICHLOROETHYLENE	5.77	96	147079	9.37	PPBV	99
25) CARBON DISULFIDE	6.05	76	426367	9.42	PPBV	100
26) ETHANOL	5.04	45	68633	9.97	PPBV	98
27) BROMOETHENE	5.15	106	147048	9.51	PPBV	100
28) ACRYLONITRILE	5.59	52	96898	10.83	PPBV	98
29) METHYLENE CHLORIDE	5.86	84	129479	8.53	PPBV	97
30) 3-CHLOROPROPENE	5.92	76	67886	9.63	PPBV	95
31) FREON 113	6.00	151	231416	9.09	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.46	96	141061	9.75	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.80	59	305787	9.58	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.62	73	378964	8.93	PPBV	97
35) TETRAHYDROFURAN	7.78	72	69152	9.82	PPBV #	91
36) HEXANE	7.31	57	248129	9.81	PPBV	99
37) VINYL ACETATE	6.71	86	31673	10.23	PPBV #	82
38) 1,1-DICHLOROETHANE	6.61	63	288197	9.58	PPBV	100
39) METHYL ETHYL KETONE	6.89	72	70185	10.11	PPBV #	86
40) cis-1,2-DICHLOROETHYLENE	7.27	96	150296	9.72	PPBV	99
41) DIISOPROPYL ETHER	7.33	45	602917	10.40	PPBV	98
42) ETHYL ACETATE	7.39	61	56973	10.01	PPBV	100
43) METHYL ACRYLATE	7.40	55	259187	10.47	PPBV	99
44) CHLOROFORM	7.47	83	286447	9.24	PPBV	99
45) 2,4-DIMETHYLPENTANE	8.01	57	312031	9.93	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.26	97	268233	8.72	PPBV	99
47) CARBON TETRACHLORIDE	8.80	117	275681	8.87	PPBV	100
48) 1,2-DICHLOROETHANE	8.06	62	162403	8.74	PPBV	100
50) BENZENE	8.67	78	463403	8.89	PPBV	99
51) CYCLOHEXANE	8.84	84	237327	8.58	PPBV	95

(#) = qualifier out of range (m) = manual integration
3W32490.D M3W1230.M Mon Mar 04 10:24:17 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32490.D Vial: 2
Acq On : 1 Mar 2013 2:19 pm Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:14 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

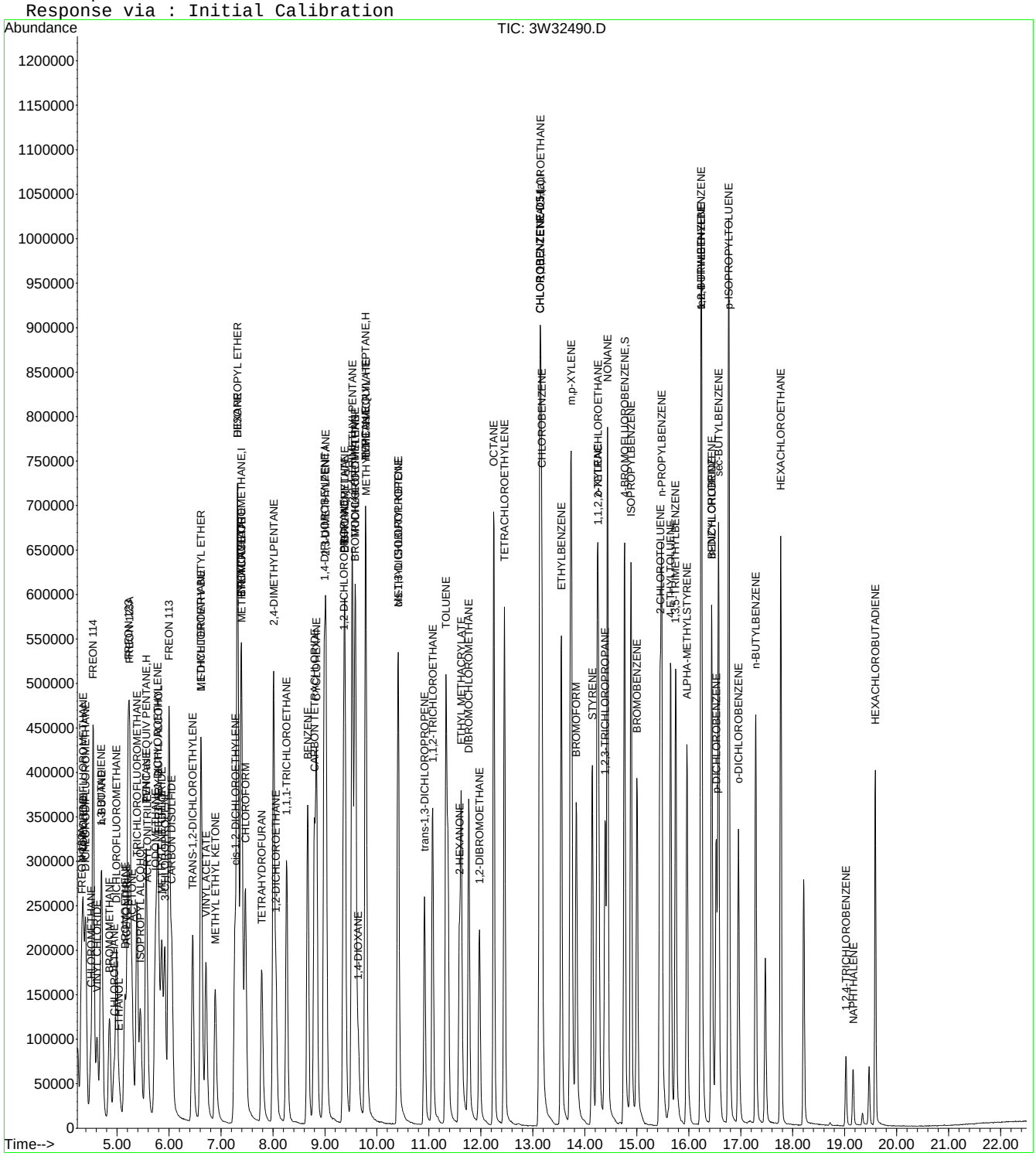
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	2,3-DIMETHYLPENTANE	9.02	71	109973	8.48	PPBV		97
53)	TRICHLOROETHYLENE	9.59	95	179247	8.42	PPBV		99
54)	1,2-DICHLOROPROPANE	9.36	63	192004	9.36	PPBV		96
55)	DIBROMOMETHANE	9.38	174	166972	8.79	PPBV		99
56)	ETHYL ACRYLATE	9.39	55	332305	9.85	PPBV		99
57)	BROMODICHLOROMETHANE	9.57	83	304963	8.74	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.52	57	811257	9.06	PPBV		99
59)	1,4-DIOXANE	9.64	88	85523	8.54	PPBV		96
60)	HEPTANE	9.78	43	327063	9.60	PPBV		96
61)	TVHC as EQUIV HEPTANE	9.78	TIC	1966317m	9.35	PPBV		
62)	METHYL METHACRYLATE	9.80	69	162519	9.49	PPBV		96
63)	METHYL ISOBUTYL KETONE	10.40	58	124683	10.03	PPBV		92
64)	cis-1,3-DICHLOROPROPENE	10.42	75	236070	9.48	PPBV		99
65)	TOLUENE	11.33	92	293787	9.02	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.91	75	201887	9.07	PPBV		98
67)	1,1,2-TRICHLOROETHANE	11.07	83	153964	9.56	PPBV		99
69)	2-HEXANONE	11.58	58	163328	10.59	PPBV		91
70)	ETHYL METHACRYLATE	11.62	69	246969	9.86	PPBV		95
71)	TETRACHLOROETHYLENE	12.45	164	190143	8.29	PPBV		96
72)	DIBROMOCHLOROMETHANE	11.77	129	275394	8.48	PPBV		100
73)	1,2-DIBROMOETHANE	11.97	107	222312	9.00	PPBV		98
74)	OCTANE	12.25	43	440245	9.84	PPBV		93
75)	1,1,1,2-TETRACHLOROETHANE	13.15	131	205109	8.52	PPBV		100
76)	CHLOROBENZENE	13.18	112	335865	8.50	PPBV		98
77)	ETHYLBENZENE	13.55	91	572108	8.97	PPBV		99
78)	m,p-XYLENE	13.74	106	416012	17.73	PPBV		99
79)	o-XYLENE	14.24	106	203579	8.87	PPBV		98
80)	STYRENE	14.15	104	284237	10.05	PPBV		99
81)	NONANE	14.44	43	401067	10.53	PPBV		95
82)	BROMOFORM	13.83	173	248103	9.57	PPBV		100
84)	1,1,2,2-TETRACHLOROETHANE	14.26	83	312263	9.74	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.39	75	230418	9.10	PPBV		97
86)	ISOPROPYLBENZENE	14.89	105	590677	8.92	PPBV		99
87)	BROMOBENZENE	15.00	77	255411	8.98	PPBV		100
88)	2-CHLOROTOLUENE	15.45	126	136958	8.96	PPBV		100
89)	n-PROPYLBENZENE	15.48	120	143383	8.89	PPBV		98
90)	4-ETHYLTOLUENE	15.65	105	470223	9.67	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.75	105	404221	9.26	PPBV		100
92)	ALPHA-METHYLSTYRENE	15.96	118	182345	9.84	PPBV		99
93)	tert-BUTYLBENZENE	16.24	134	101521	8.72	PPBV		99
94)	1,2,4-TRIMETHYLBENZENE	16.24	105	372146	9.73	PPBV		98
95)	m-DICHLOROBENZENE	16.44	146	209649	9.83	PPBV		98
96)	BENZYL CHLORIDE	16.44	91	255236	10.21	PPBV		99
97)	p-DICHLOROBENZENE	16.53	146	194767	9.86	PPBV		99
98)	sec-BUTYLBENZENE	16.57	134	114415	8.84	PPBV	#	92
99)	p-ISOPROPYLTOLUENE	16.77	134	118319	9.15	PPBV		99
100)	o-DICHLOROBENZENE	16.96	146	193437	9.85	PPBV		99
101)	n-BUTYLBENZENE	17.29	134	85959	9.33	PPBV	#	89
102)	HEXACHLOROETHANE	17.77	117	175286	9.15	PPBV		99
103)	HEXACHLOROBUTADIENE	19.59	225	91890	8.67	PPBV		99
104)	1,2,4-TRICHLOROBENZENE	19.02	180	34182	7.69	PPBV		99
106)	NAPHTHALENE	19.16	128	65535	7.45	PPBV		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32490.D Vial: 2
Acq On : 1 Mar 2013 2:19 pm Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

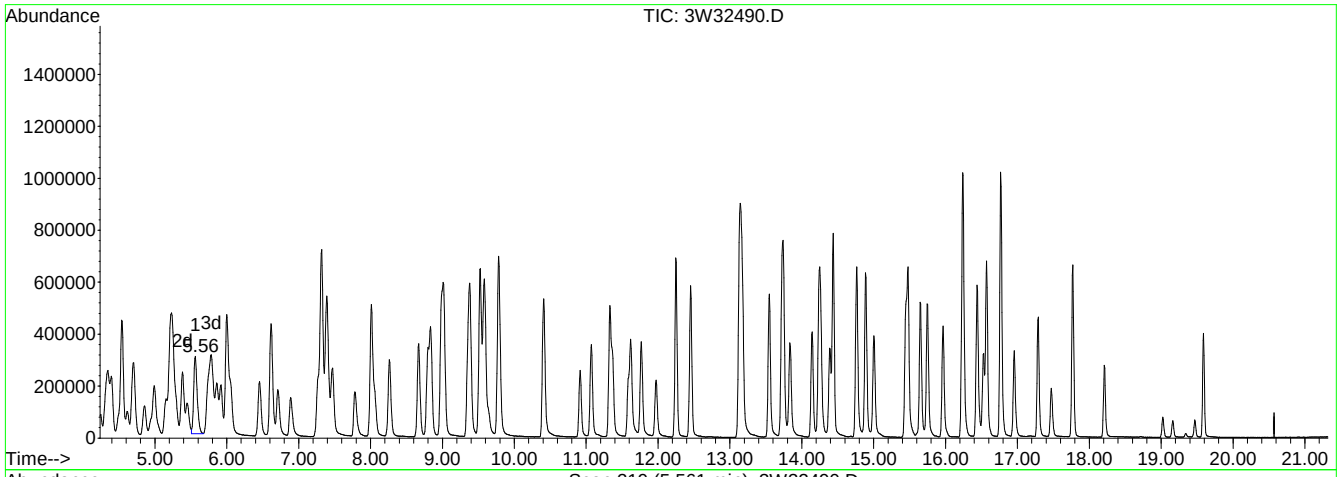


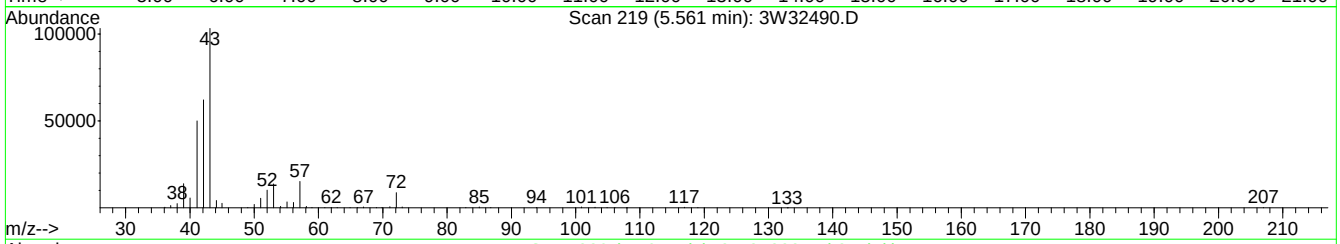
ACCUTEST LABORATORIES JB29729

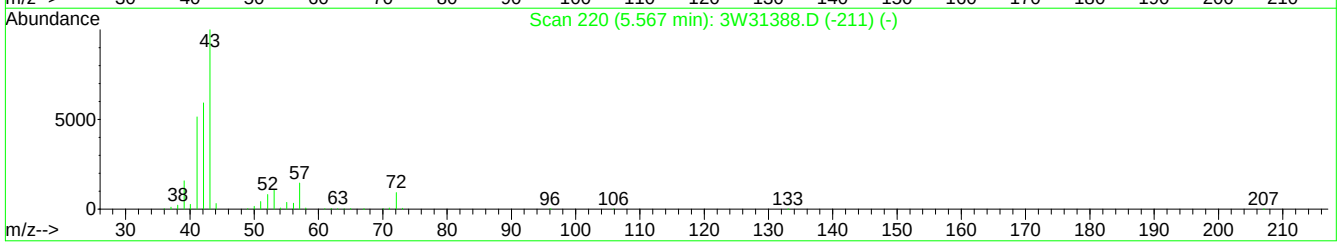
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32490.D Vial: 2
Acq On : 1 Mar 2013 2:19 pm Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W32490.D

(22) TVHC as EQUIV PENTANE (H)

5.56min 9.89PPBV m

response 1009350

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.78#
0.00	0.80	0.67#
0.00	0.00	0.00

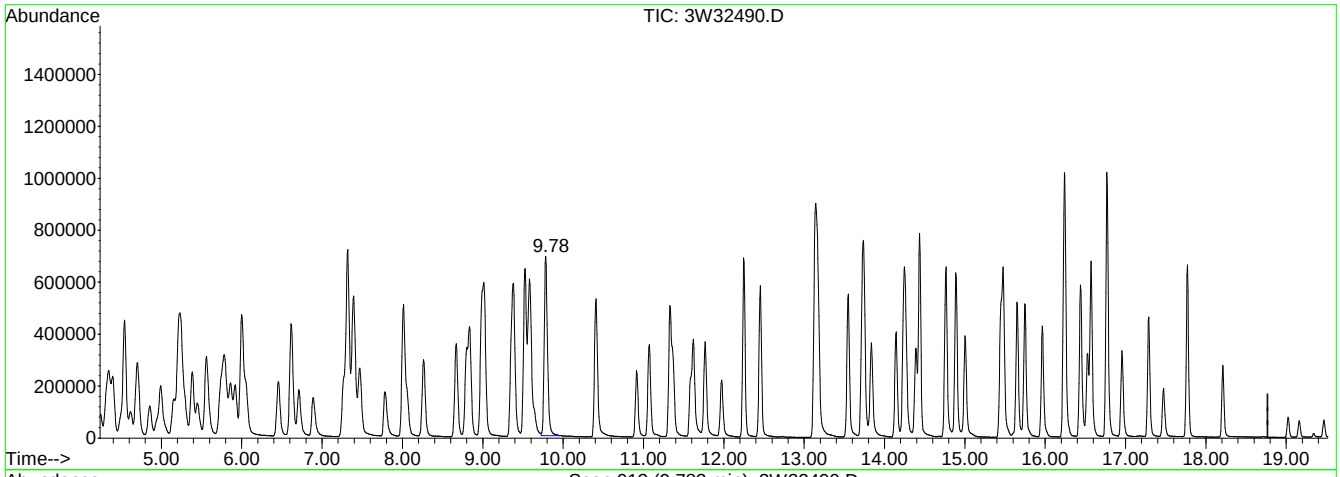
3W32490.D M3W1230.M Mon Mar 04 10:20:12 2013 MS3W

3W32490.D edits: TVHC as EQUIV PENTANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32490.D Vial: 2
Acq On : 1 Mar 2013 2:19 pm Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W32490.D

(61) TVHC as EQUIV HEPTANE (H)

9.78min 9.35PPBV m

response 1966317

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.40#
0.00	0.40	0.34#
0.00	0.00	0.00

3W32490.D M3W1230.M Mon Mar 04 10:24:25 2013 MS3W

3W32490.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32168.D Vial: 3
Acq On : 6 Feb 2013 10:14 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:00:17 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	109041	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	528283	10.00	PPBV		-0.01
68) CHLOROBENZENE-D5	13.15	82	257239	10.00	PPBV		0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	257973	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	14.78	95	276751	10.82	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.20%				
Target Compounds							Qvalue
3) FREON 152A	4.32	65	96580	8.72	PPBV		94
4) CHLORODIFLUOROMETHANE	4.34	67	29675	7.44	PPBV		98
5) DICHLORODIFLUOROMETHANE	4.41	85	304633	8.02	PPBV		99
6) PROPYLENE	4.37	41	127686	9.05	PPBV		97
7) FREON 114	4.55	85	374263	8.44	PPBV		99
8) CHLOROMETHANE	4.51	50	160243	8.52	PPBV		98
9) VINYL CHLORIDE	4.63	62	152902	8.93	PPBV		98
10) 1,3-BUTADIENE	4.70	54	114922	8.91	PPBV		97
11) n-BUTANE	4.72	43	248219	8.55	PPBV		100
12) BROMOMETHANE	4.87	94	137831	9.05	PPBV		99
13) CHLOROETHANE	4.95	64	82937	9.12	PPBV		98
14) DICHLOROFLUOROMETHANE	5.00	67	308004	8.59	PPBV		99
15) ACETONITRILE	5.18	41	102566	8.80	PPBV		97
16) FREON 123	5.22	83	330280	8.75	PPBV		99
17) FREON 123A	5.26	117	178960	8.50	PPBV		97
18) TRICHLOROFLUOROMETHANE	5.40	101	296394	8.09	PPBV		99
19) ISOPROPYL ALCOHOL	5.45	45	231457	8.04	PPBV		98
20) ACETONE	5.30	58	63862	8.69	PPBV	#	89
21) PENTANE	5.57	42	158925	8.88	PPBV		96
22) TVHC as EQUIV PENTANE	5.57	TIC	887115m	8.64	PPBV		
23) IODOMETHANE	5.75	142	354808	8.84	PPBV		96
24) 1,1-DICHLOROETHYLENE	5.79	96	139829	8.85	PPBV		97
25) CARBON DISULFIDE	6.07	76	396483	8.70	PPBV		97
26) ETHANOL	5.04	45	55346	7.99	PPBV		98
27) BROMOETHENE	5.16	106	138924	8.93	PPBV		99
28) ACRYLONITRILE	5.59	52	83239	9.25	PPBV		98
29) METHYLENE CHLORIDE	5.87	84	121626	7.96	PPBV		98
30) 3-CHLOROPROPENE	5.93	76	65408	9.22	PPBV		96
31) FREON 113	6.01	151	219976	8.58	PPBV		99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	134450	9.23	PPBV		97
33) TERTIARY BUTYL ALCOHOL	5.81	59	268672	8.36	PPBV		99
34) METHYL TERTIARY BUTYL ETHE	6.63	73	337790	7.90	PPBV		99
35) TETRAHYDROFURAN	7.80	72	61490	8.67	PPBV		99
36) HEXANE	7.33	57	224059	8.80	PPBV		96
37) VINYL ACETATE	6.72	86	29507	9.46	PPBV	#	88
38) 1,1-DICHLOROETHANE	6.63	63	263514	8.70	PPBV		100
39) METHYL ETHYL KETONE	6.90	72	60148	8.61	PPBV		99
40) cis-1,2-DICHLOROETHYLENE	7.28	96	142169	9.13	PPBV		98
41) DIISOPROPYL ETHER	7.34	45	485460	8.32	PPBV		100
42) ETHYL ACETATE	7.41	61	48692	8.50	PPBV	#	83
43) METHYL ACRYLATE	7.42	55	214358	8.60	PPBV		100
44) CHLOROFORM	7.48	83	265231	8.50	PPBV		99
45) 2,4-DIMETHYLPENTANE	8.03	57	284530	8.99	PPBV		99
46) 1,1,1-TRICHLOROETHANE	8.28	97	249370	8.05	PPBV		100
47) CARBON TETRACHLORIDE	8.82	117	257031	8.21	PPBV		100
48) 1,2-DICHLOROETHANE	8.07	62	146732	7.84	PPBV		99
50) BENZENE	8.69	78	435768	8.81	PPBV		100
51) CYCLOHEXANE	8.85	84	224954	8.57	PPBV		99

(#) = qualifier out of range (m) = manual integration
3W32168.D M3W1230.M Thu Feb 07 10:02:08 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32168.D Vial: 3
Acq On : 6 Feb 2013 10:14 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:00:17 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

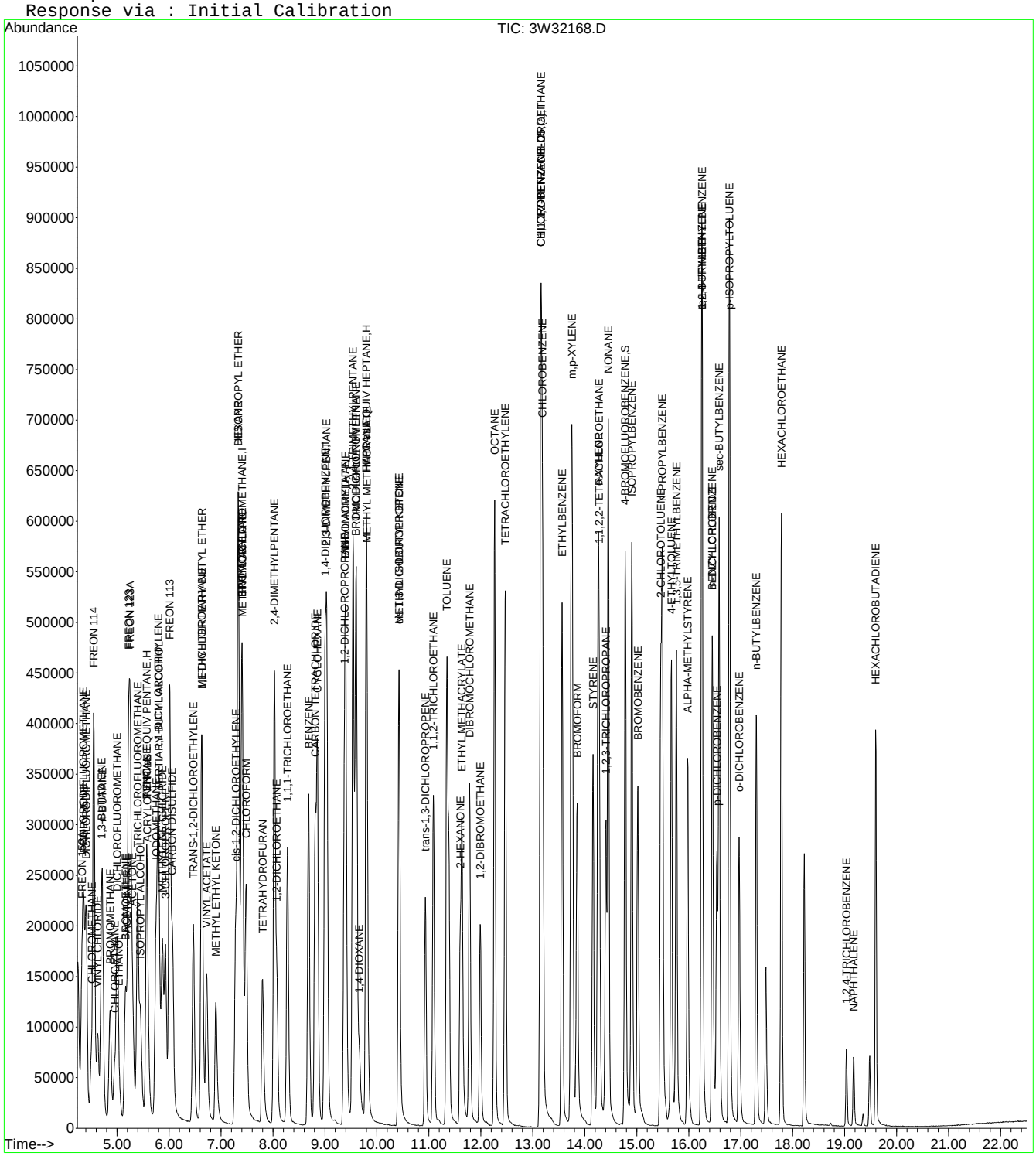
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	2,3-DIMETHYLPENTANE	9.04	71	100892	8.20	PPBV	98
53)	TRICHLOROETHYLENE	9.61	95	164174	8.13	PPBV	98
54)	1,2-DICHLOROPROPANE	9.37	63	170066	8.73	PPBV	97
55)	DIBROMOMETHANE	9.40	174	157204	8.73	PPBV	98
56)	ETHYL ACRYLATE	9.40	55	254339	7.94	PPBV	99
57)	BROMODICHLOROMETHANE	9.59	83	275564	8.33	PPBV	100
58)	2,2,4-TRIMETHYLPENTANE	9.54	57	729786	8.59	PPBV	100
59)	1,4-DIOXANE	9.66	88	77505	8.16	PPBV	99
60)	HEPTANE	9.80	43	281424	8.70	PPBV	100
61)	TVHC as EQUIV HEPTANE	9.80	TIC	1704362m	8.54	PPBV	
62)	METHYL METHACRYLATE	9.81	69	134579	8.29	PPBV	98
63)	METHYL ISOBUTYL KETONE	10.42	58	101557	8.61	PPBV	98
64)	cis-1,3-DICHLOROPROPENE	10.43	75	214603	9.08	PPBV	96
65)	TOLUENE	11.35	92	274791	8.89	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.93	75	181404	8.59	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.09	83	140109	9.16	PPBV	99
69)	2-HEXANONE	11.60	58	133406	9.65	PPBV	100
70)	ETHYL METHACRYLATE	11.64	69	193111	8.60	PPBV	100
71)	TETRACHLOROETHYLENE	12.47	164	173169	8.43	PPBV	99
72)	DIBROMOCHLOROMETHANE	11.78	129	260346	8.95	PPBV	100
73)	1,2-DIBROMOETHANE	11.99	107	203409	9.20	PPBV	98
74)	OCTANE	12.27	43	373792	9.33	PPBV	99
75)	1,1,1,2-TETRACHLOROETHANE	13.17	131	188055	8.72	PPBV	98
76)	CHLOROBENZENE	13.19	112	314017	8.87	PPBV	99
77)	ETHYLBENZENE	13.56	91	524585	9.19	PPBV	100
78)	m,p-XYLENE	13.75	106	390548	18.57	PPBV	96
79)	o-XYLENE	14.25	106	189694	9.23	PPBV	97
80)	STYRENE	14.16	104	256570	10.13	PPBV	98
81)	NONANE	14.45	43	345155	10.12	PPBV	100
82)	BROMOFORM	13.85	173	220138	9.47	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.28	83	267277	9.30	PPBV	99
85)	1,2,3-TRICHLOROPROPANE	14.41	75	199677	8.80	PPBV	98
86)	ISOPROPYLBENZENE	14.91	105	532661	8.98	PPBV	99
87)	BROMOBENZENE	15.02	77	227760	8.93	PPBV	99
88)	2-CHLOROTOLUENE	15.46	126	126615	9.24	PPBV	99
89)	n-PROPYLBENZENE	15.49	120	129397	8.96	PPBV	99
90)	4-ETHYLTOLUENE	15.67	105	421299	9.67	PPBV	100
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	359284	9.19	PPBV	98
92)	ALPHA-METHYLSTYRENE	15.98	118	157839	9.50	PPBV	99
93)	tert-BUTYLBENZENE	16.25	134	92390	8.86	PPBV	98
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	325083	9.49	PPBV	98
95)	m-DICHLOROBENZENE	16.45	146	180403	9.44	PPBV	99
96)	BENZYL CHLORIDE	16.46	91	203790	9.10	PPBV	100
97)	p-DICHLOROBENZENE	16.54	146	167609	9.47	PPBV	99
98)	sec-BUTYLBENZENE	16.58	134	105427	9.10	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.78	134	105998	9.15	PPBV	99
100)	o-DICHLOROBENZENE	16.97	146	170628	9.70	PPBV	99
101)	n-BUTYLBENZENE	17.30	134	77794	9.43	PPBV	96
102)	HEXACHLOROETHANE	17.78	117	157127	9.15	PPBV	99
103)	HEXACHLOROBUTADIENE	19.60	225	93314	9.82	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	19.04	180	35397	8.88	PPBV	98
106)	NAPHTHALENE	19.17	128	71179	9.01	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32168.D M3W1230.M Thu Feb 07 10:02:08 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32168.D Vial: 3
Acq On : 6 Feb 2013 10:14 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:06 2013 Quant Results File: M3W1230.RES

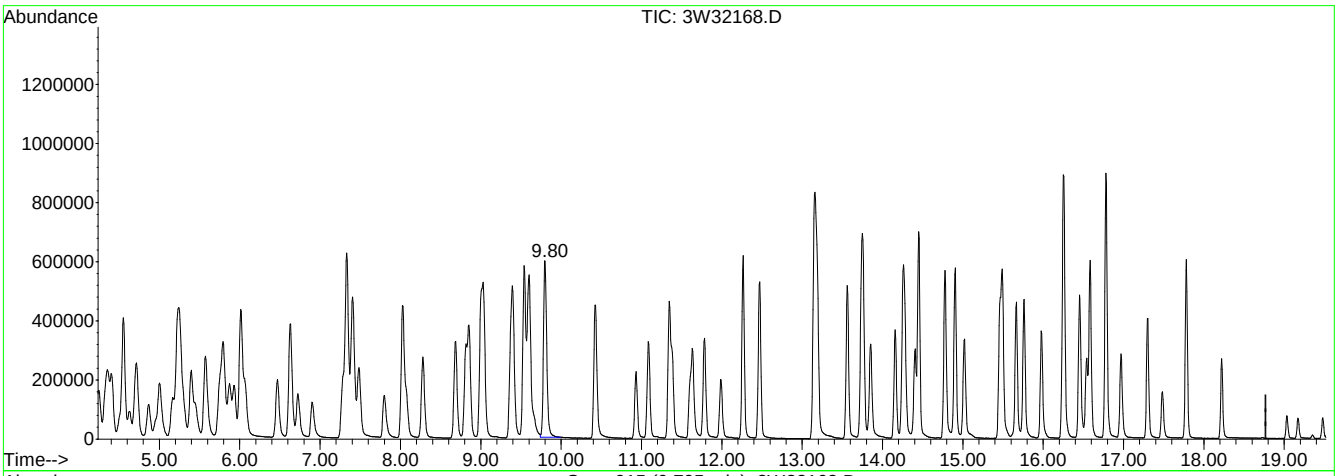
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

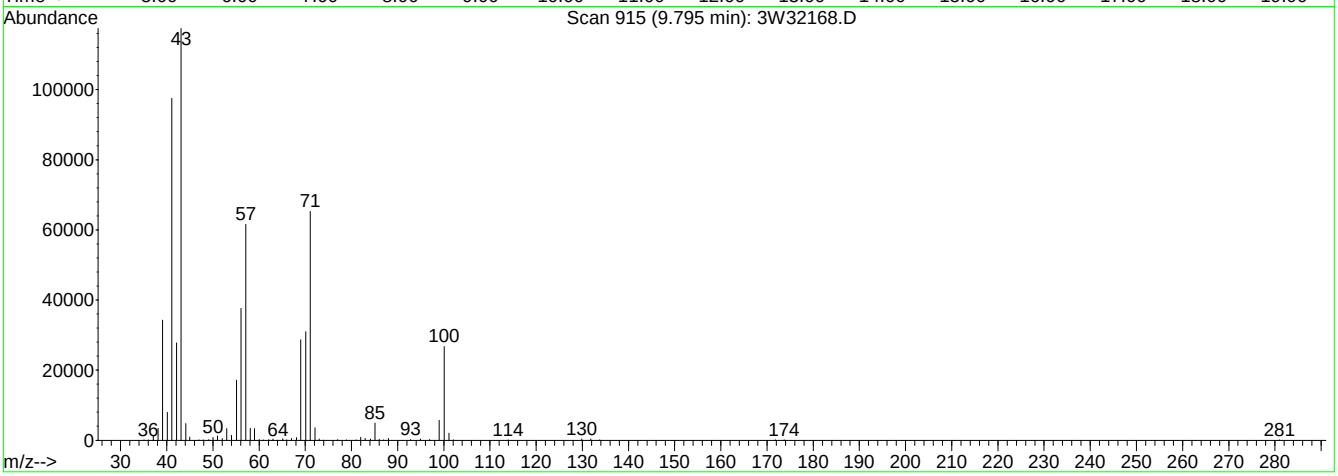


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32168.D Vial: 3
Acq On : 6 Feb 2013 10:14 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration





TIC: 3W32168.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 8.54PPBV m

response 1704362

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.48#
0.00	0.40	0.43#
0.00	0.00	0.00

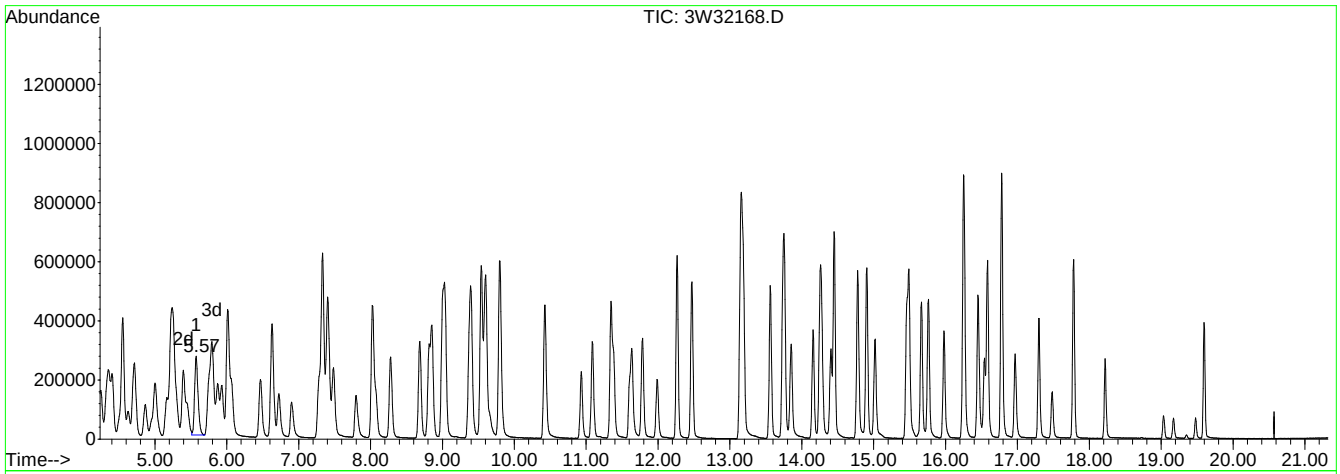
3W32168.D M3W1230.M Thu Feb 07 10:01:00 2013 MS3W

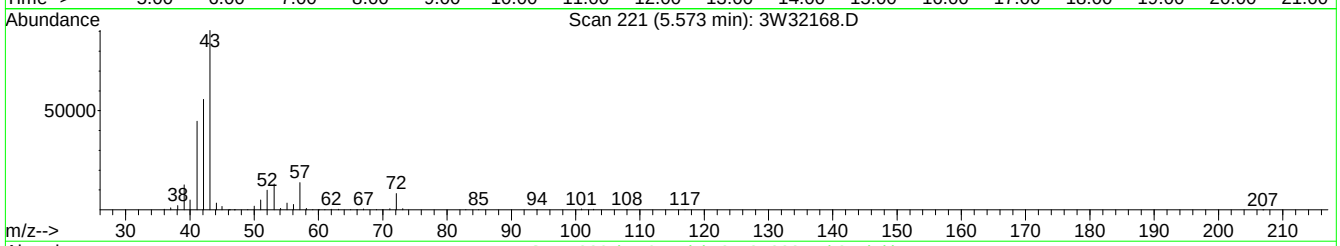
3W32168.D edits: TVHC as EQUIV HEPTANE

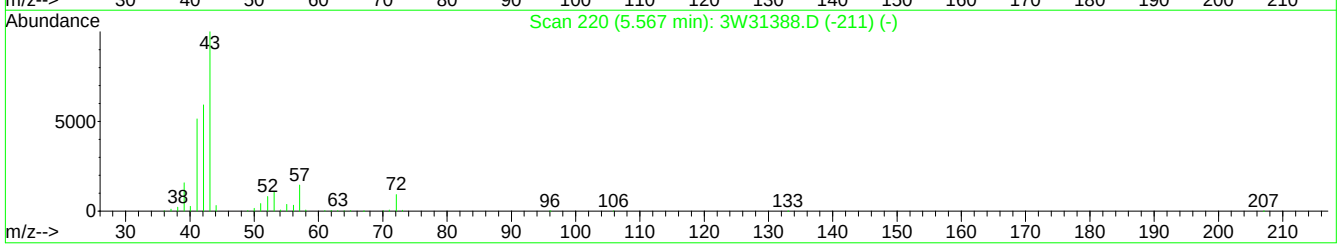
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32168.D Vial: 3
Acq On : 6 Feb 2013 10:14 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W32168.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 8.64PPBV m

response 887115

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.93#
0.00	0.80	0.82#
0.00	0.00	0.00

3W32168.D M3W1230.M Thu Feb 07 10:04:20 2013 MS3W

3W32168.D edits: TVHC as EQUIV PENTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32169.D Vial: 3
Acq On : 6 Feb 2013 11:00 am Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:00:22 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	109286	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	534849	10.00	PPBV	-0.01
68) CHLOROBENZENE-D5	13.15	82	257733	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	258138	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.78	95	279672	10.91	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.10%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	98250	8.85	PPBV	94
4) CHLORODIFLUOROMETHANE	4.35	67	30775	7.70	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.41	85	309127	8.12	PPBV	99
6) PROPYLENE	4.36	41	127784	9.03	PPBV	98
7) FREON 114	4.55	85	384181	8.65	PPBV	98
8) CHLOROMETHANE	4.51	50	172422	9.15	PPBV	99
9) VINYL CHLORIDE	4.63	62	163585	9.53	PPBV	100
10) 1,3-BUTADIENE	4.70	54	114679	8.87	PPBV	97
11) n-BUTANE	4.72	43	251481	8.64	PPBV	99
12) BROMOMETHANE	4.87	94	139276	9.12	PPBV	100
13) CHLOROETHANE	4.95	64	79989	8.78	PPBV	97
14) DICHLOROFLUOROMETHANE	5.00	67	289879	8.07	PPBV	99
15) ACETONITRILE	5.18	41	102987	8.82	PPBV	98
16) FREON 123	5.22	83	312358	8.26	PPBV	99
17) FREON 123A	5.26	117	169150	8.02	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.40	101	291146	7.93	PPBV	100
19) ISOPROPYL ALCOHOL	5.46	45	227562	7.89	PPBV	98
20) ACETONE	5.30	58	62253	8.45	PPBV #	89
21) PENTANE	5.57	42	150417	8.39	PPBV	97
22) TVHC as EQUIV PENTANE	5.57	TIC	850746m	8.26	PPBV	
23) IODOMETHANE	5.75	142	341258	8.48	PPBV	95
24) 1,1-DICHLOROETHYLENE	5.79	96	136006	8.59	PPBV	96
25) CARBON DISULFIDE	6.07	76	397661	8.71	PPBV	97
26) ETHANOL	5.06	45	57345	8.26	PPBV	99
27) BROMOETHENE	5.16	106	137057	8.79	PPBV	99
28) ACRYLONITRILE	5.60	52	81596	9.04	PPBV	99
29) METHYLENE CHLORIDE	5.87	84	118951	7.77	PPBV	96
30) 3-CHLOROPROPENE	5.93	76	61268	8.62	PPBV	97
31) FREON 113	6.01	151	206967	8.06	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	128727	8.82	PPBV	97
33) TERTIARY BUTYL ALCOHOL	5.82	59	260325	8.08	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.63	73	330444	7.71	PPBV	99
35) TETRAHYDROFURAN	7.80	72	59770	8.41	PPBV	99
36) HEXANE	7.33	57	210943	8.27	PPBV	97
37) VINYL ACETATE	6.72	86	28256	9.04	PPBV #	90
38) 1,1-DICHLOROETHANE	6.63	63	250888	8.26	PPBV	100
39) METHYL ETHYL KETONE	6.90	72	59427	8.49	PPBV	97
40) cis-1,2-DICHLOROETHYLENE	7.28	96	134761	8.63	PPBV	98
41) DIISOPROPYL ETHER	7.34	45	468468	8.01	PPBV	99
42) ETHYL ACETATE	7.40	61	45749	7.97	PPBV #	89
43) METHYL ACRYLATE	7.42	55	208504	8.35	PPBV	99
44) CHLOROFORM	7.48	83	251250	8.04	PPBV	99
45) 2,4-DIMETHYLPENTANE	8.03	57	268828	8.48	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.27	97	234500	7.55	PPBV	100
47) CARBON TETRACHLORIDE	8.81	117	242163	7.72	PPBV	100
48) 1,2-DICHLOROETHANE	8.07	62	137270	7.32	PPBV	99
50) BENZENE	8.68	78	408322	8.15	PPBV	99
51) CYCLOHEXANE	8.85	84	210146	7.91	PPBV	98

(#) = qualifier out of range (m) = manual integration
3W32169.D M3W1230.M Thu Feb 07 10:02:28 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32169.D Vial: 3
Acq On : 6 Feb 2013 11:00 am Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:00:22 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

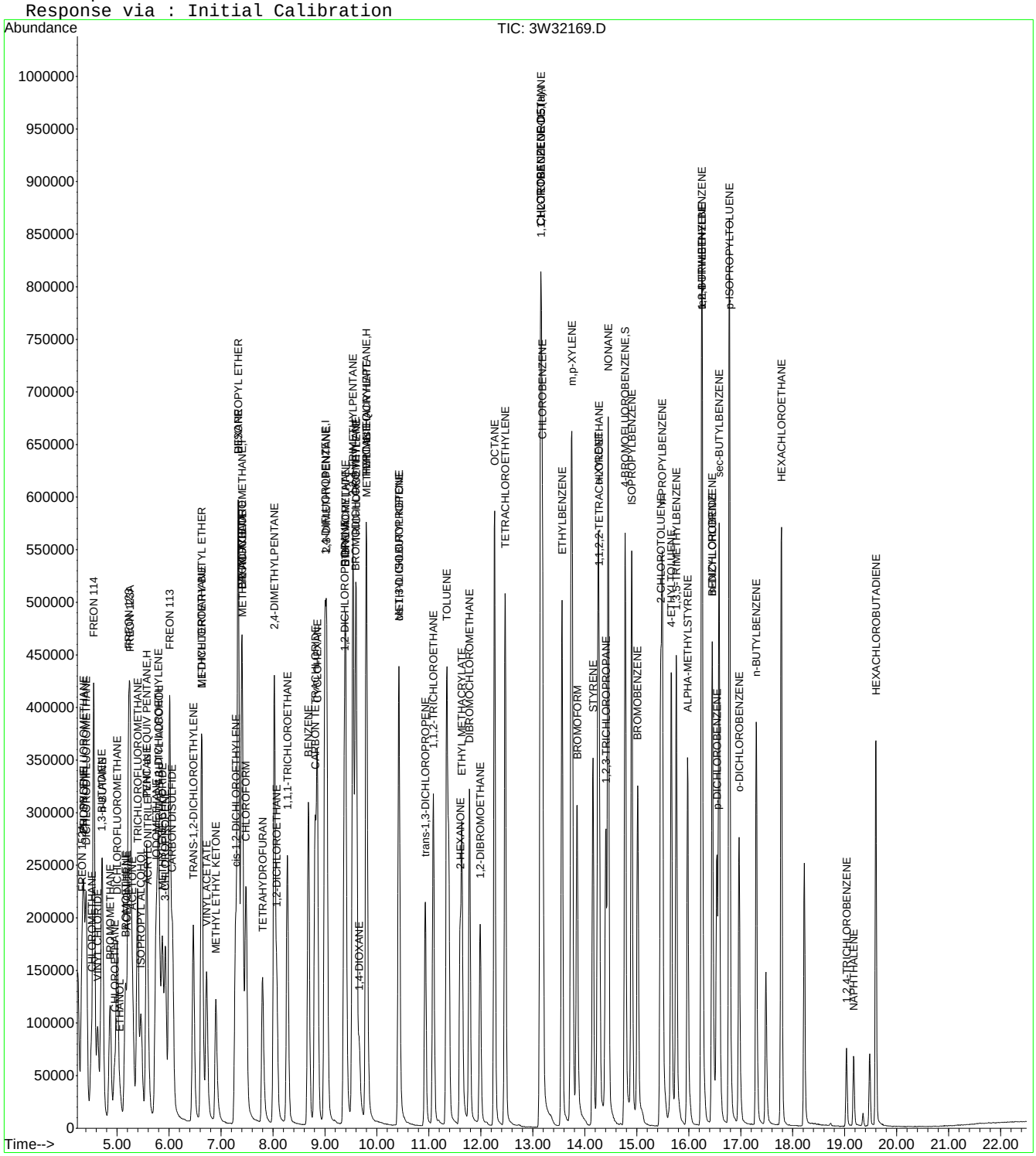
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	2,3-DIMETHYLPENTANE	9.04	71	95168	7.64	PPBV	98
53)	TRICHLOROETHYLENE	9.61	95	156549	7.65	PPBV	99
54)	1,2-DICHLOROPROPANE	9.37	63	159362	8.08	PPBV	97
55)	DIBROMOMETHANE	9.39	174	149549	8.20	PPBV	98
56)	ETHYL ACRYLATE	9.40	55	243221	7.50	PPBV	100
57)	BROMODICHLOROMETHANE	9.58	83	262553	7.84	PPBV	100
58)	2,2,4-TRIMETHYLPENTANE	9.54	57	693588	8.07	PPBV	100
59)	1,4-DIOXANE	9.66	88	72413	7.53	PPBV	98
60)	HEPTANE	9.79	43	263342	8.04	PPBV	99
61)	TVHC as EQUIV HEPTANE	9.80	TIC	1621952m	8.03	PPBV	
62)	METHYL METHACRYLATE	9.81	69	130548	7.94	PPBV	100
63)	METHYL ISOBUTYL KETONE	10.42	58	97500	8.17	PPBV	98
64)	cis-1,3-DICHLOROPROPENE	10.43	75	202968	8.48	PPBV	96
65)	TOLUENE	11.34	92	262063	8.38	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.93	75	171896	8.04	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.09	83	133140	8.60	PPBV	100
69)	2-HEXANONE	11.60	58	130013	9.39	PPBV	99
70)	ETHYL METHACRYLATE	11.63	69	186576	8.30	PPBV	98
71)	TETRACHLOROETHYLENE	12.47	164	167716	8.15	PPBV	99
72)	DIBROMOCHLOROMETHANE	11.78	129	249159	8.54	PPBV	100
73)	1,2-DIBROMOETHANE	11.99	107	193332	8.72	PPBV	99
74)	OCTANE	12.27	43	357855	8.91	PPBV	99
75)	1,1,1,2-TETRACHLOROETHANE	13.17	131	180294	8.34	PPBV	98
76)	CHLOROBENZENE	13.19	112	299039	8.43	PPBV	99
77)	ETHYLBENZENE	13.56	91	503573	8.80	PPBV	99
78)	m,p-XYLENE	13.75	106	372248	17.67	PPBV	96
79)	o-XYLENE	14.25	106	183690	8.92	PPBV	97
80)	STYRENE	14.16	104	248674	9.80	PPBV	98
81)	NONANE	14.45	43	331981	9.71	PPBV	100
82)	BROMOFORM	13.85	173	213756	9.18	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.28	83	263311	9.15	PPBV	100
85)	1,2,3-TRICHLOROPROPANE	14.40	75	192761	8.48	PPBV	98
86)	ISOPROPYLBENZENE	14.91	105	519338	8.74	PPBV	99
87)	BROMOBENZENE	15.02	77	217667	8.52	PPBV	98
88)	2-CHLOROTOLUENE	15.46	126	124011	9.03	PPBV	100
89)	n-PROPYLBENZENE	15.49	120	126500	8.74	PPBV	100
90)	4-ETHYLTOLUENE	15.67	105	403182	9.24	PPBV	100
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	354373	9.05	PPBV	98
92)	ALPHA-METHYLSTYRENE	15.98	118	156603	9.41	PPBV	99
93)	tert-BUTYLBENZENE	16.25	134	89296	8.54	PPBV	99
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	316489	9.22	PPBV	99
95)	m-DICHLOROBENZENE	16.45	146	175114	9.14	PPBV	99
96)	BENZYL CHLORIDE	16.46	91	197798	8.82	PPBV	99
97)	p-DICHLOROBENZENE	16.54	146	164131	9.26	PPBV	99
98)	sec-BUTYLBENZENE	16.58	134	101800	8.77	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.78	134	102617	8.84	PPBV	99
100)	o-DICHLOROBENZENE	16.97	146	165231	9.38	PPBV	99
101)	n-BUTYLBENZENE	17.30	134	76172	9.21	PPBV	98
102)	HEXACHLOROETHANE	17.78	117	153566	8.93	PPBV	100
103)	HEXACHLOROBUTADIENE	19.60	225	89079	9.36	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	19.04	180	34893	8.74	PPBV	94
106)	NAPHTHALENE	19.17	128	69506	8.80	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32169.D M3W1230.M Thu Feb 07 10:02:29 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32169.D Vial: 3
Acq On : 6 Feb 2013 11:00 am Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:07 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

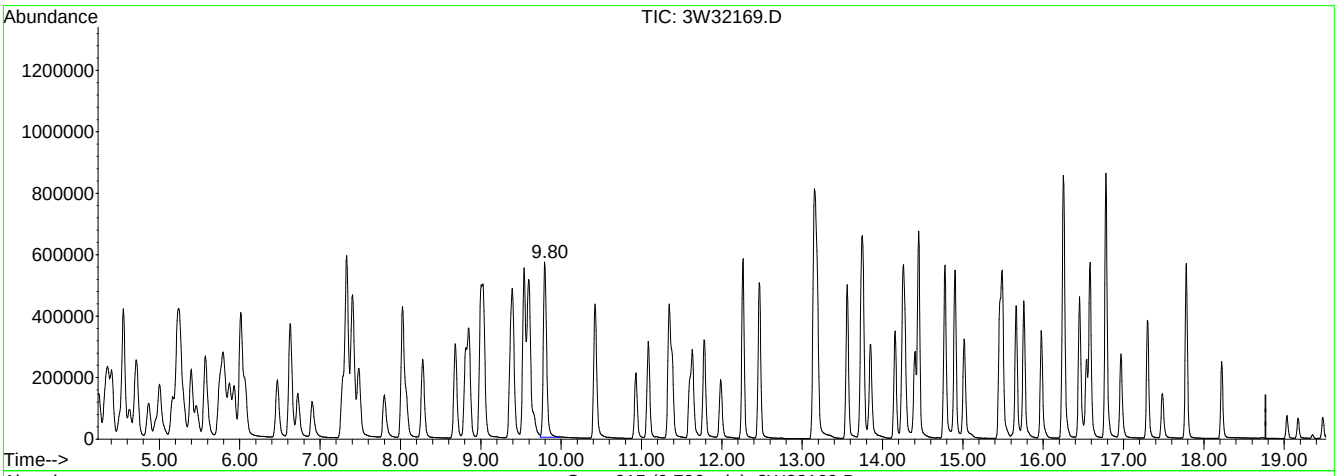


ACCUTEST LABORATORIES JB29729

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32169.D Vial: 3
Acq On : 6 Feb 2013 11:00 am Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:07 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W32169.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 8.03PPBV m

response 1621952

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.51#
0.00	0.40	0.42#
0.00	0.00	0.00

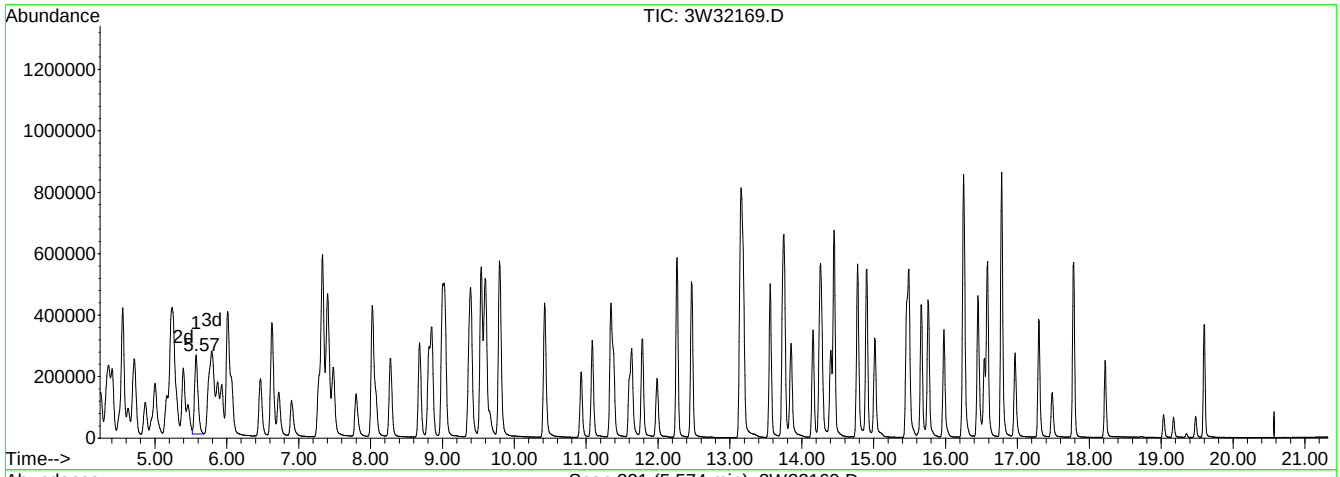
3W32169.D M3W1230.M Thu Feb 07 10:01:12 2013 MS3W

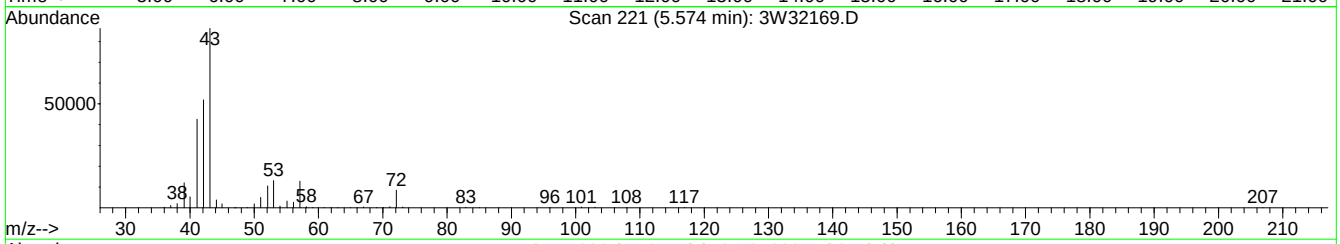
3W32169.D edits: TVHC as EQUIV HEPTANE

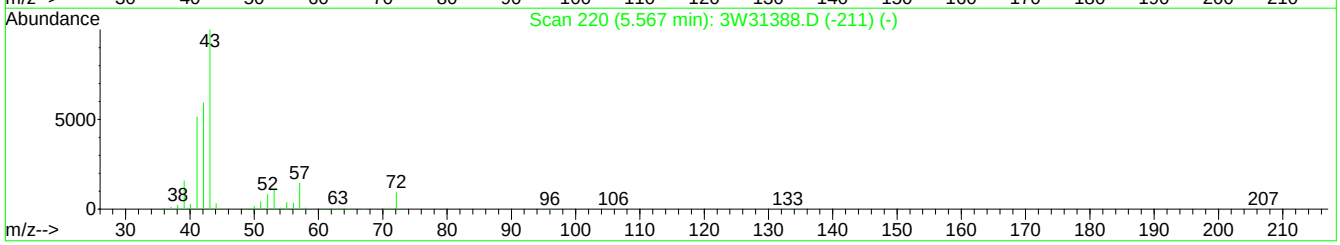
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32169.D Vial: 3
Acq On : 6 Feb 2013 11:00 am Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:07 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W32169.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 8.26PPBV m

response 850746

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.97#
0.00	0.80	0.80#
0.00	0.00	0.00

3W32169.D M3W1230.M Thu Feb 07 10:04:28 2013 MS3W

ACCUTEST LABORATORIES
JB29729
3W32169.D edits: TVHC as EQUIV PENTANE

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37589.D
Acq On : 28 Feb 2013 7:52 pm
Operator : yunxiac
Sample : jb29675-5dup
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 01 10:32:45 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

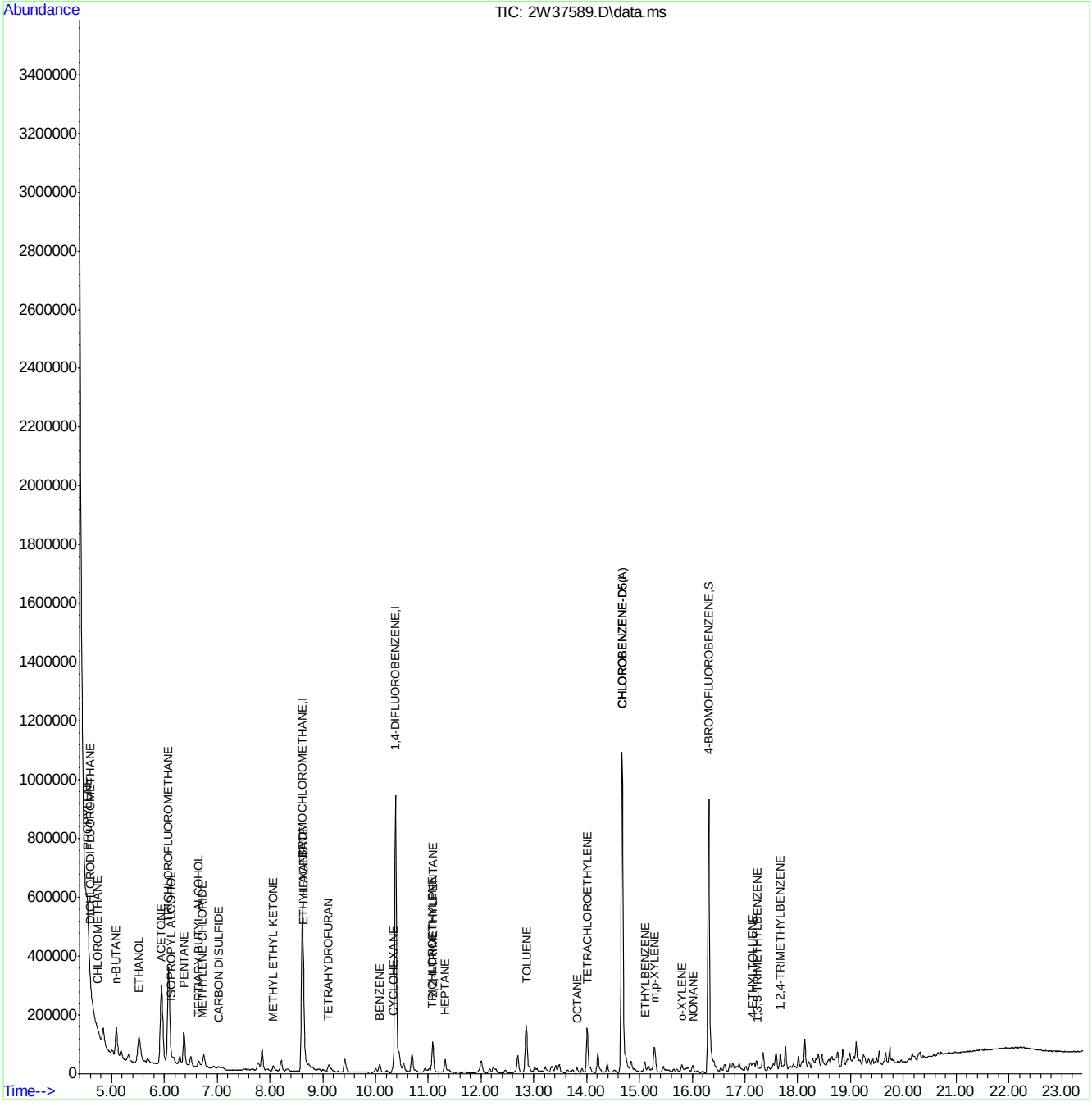
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	217800	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.379	114	974801	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	481640	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	481640	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	431667	8.80	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.00%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	48450	0.54	PPBV		98
6) PROPYLENE	4.533	41	111423	4.45	PPBV		86
8) CHLOROMETHANE	4.734	52	4231	0.46	PPBV	#	74
11) n-BUTANE	5.088	43	132873	2.79	PPBV	#	97
18) TRICHLOROFLUOROMETHANE	6.082	101	391264	4.97	PPBV		100
19) ISOPROPYL ALCOHOL	6.118	45	46258	1.13	PPBV	#	45
20) ACETONE	5.929	58	86835	8.35	PPBV	#	17
21) PENTANE	6.374	42	57338	2.13	PPBV		94
26) CARBON DISULFIDE	7.026	76	10110	0.13	PPBV	#	79
27) ETHANOL	5.521	45	273776	32.42	PPBV		95
30) METHYLENE CHLORIDE	6.716	84	5671	0.24	PPBV		91
34) TERTIARY BUTYL ALCOHOL	6.655	59	7084	0.12	PPBV	#	3
36) TETRAHYDROFURAN	9.111	72	8633	0.83	PPBV		93
37) HEXANE	8.630	57	33837	0.72	PPBV		93
40) METHYL ETHYL KETONE	8.057	72	9081	0.87	PPBV	#	83
42) ETHYL ACETATE	8.636	61	4172	0.62	PPBV	#	41
50) BENZENE	10.081	78	30367	0.45	PPBV		98
51) CYCLOHEXANE	10.337	84	12931	0.32	PPBV	#	1
54) TRICHLOROETHYLENE	11.068	95	2132	0.06	PPBV	#	76
58) 2,2,4-TRIMETHYLPENTANE	11.081	57	94299	0.75	PPBV		87
61) HEPTANE	11.318	43	17679	0.38	PPBV		96
65) TOLUENE	12.861	92	68518	1.55	PPBV		99
71) TETRACHLOROETHYLENE	14.013	164	44715	1.25	PPBV		99
74) OCTANE	13.818	43	5851	0.12	PPBV	#	92
77) ETHYLBENZENE	15.104	91	34061	0.41	PPBV		98
78) m,p-XYLENE	15.281	106	25469	0.80	PPBV		96
79) o-XYLENE	15.805	106	7422	0.24	PPBV		90
81) NONANE	16.013	43	7435	0.17	PPBV		93
89) 4-ETHYLTOLUENE	17.153	105	6998	0.10	PPBV		92
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	6571	0.10	PPBV		96
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	20296	0.36	PPBV	#	33

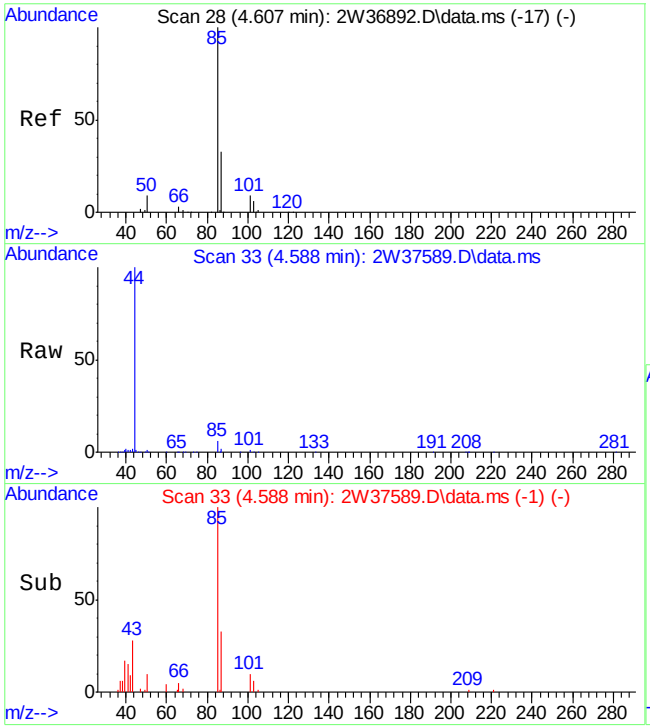
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37589.D
Acq On : 28 Feb 2013 7:52 pm
Operator : yunxiac
Sample : jb29675-5dup
Misc : MS43676,V2W1574,400,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 01 10:32:45 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 16:46:45 2013
Response via : Initial Calibration

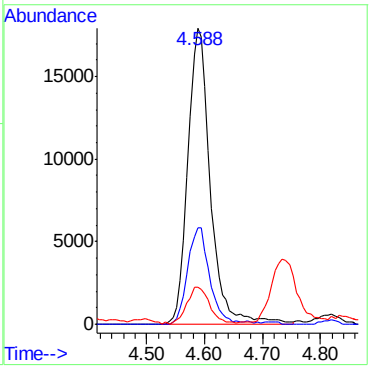


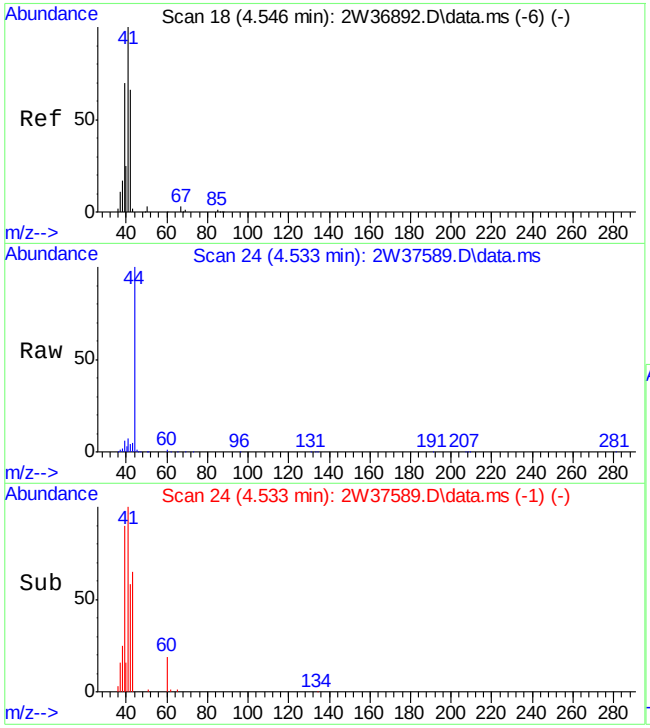


#3
DICHLORODIFLUOROMETHANE
Concen: 0.54 PPBV
RT: 4.588 min Scan# 33
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 85 Resp: 48450

Ion	Ratio	Lower	Upper
85	100		
87	32.3	12.2	52.2
50	13.1	0.0	31.0

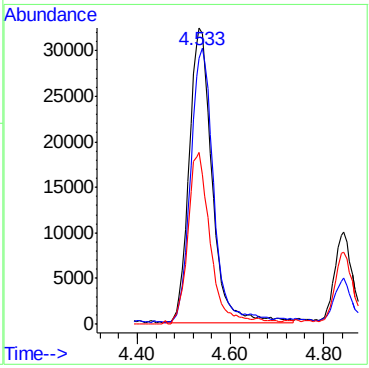


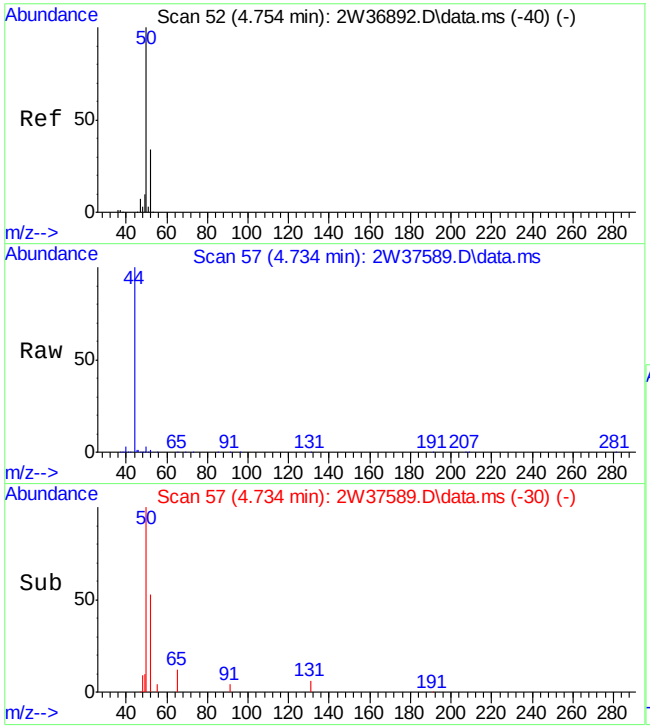


#6
PROPYLENE
Concen: 4.45 PPBV
RT: 4.533 min Scan# 24
Delta R.T. 0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 41 Resp: 111423

Ion	Ratio	Lower	Upper
41	100		
39	89.9	54.9	94.9
42	57.8	45.3	85.3

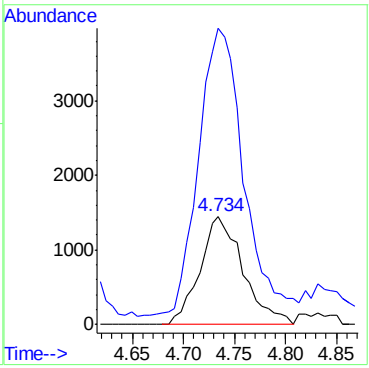


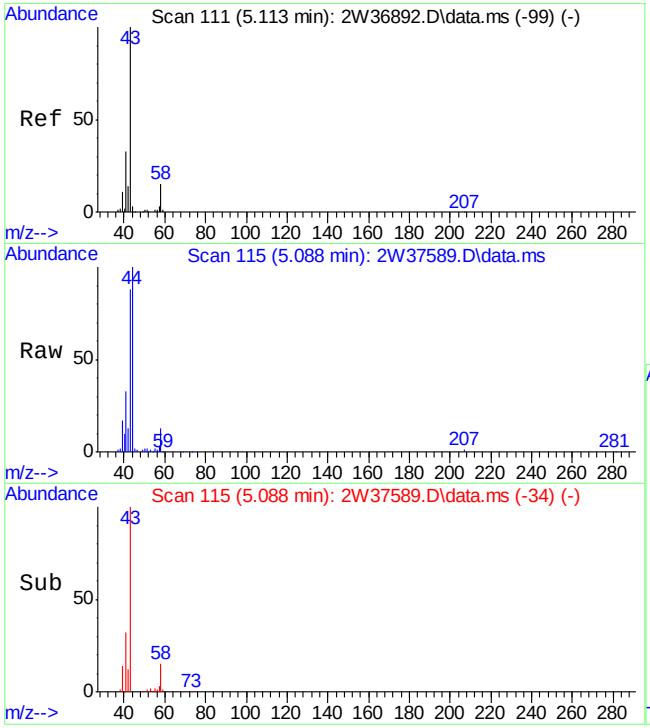


#8
CHLOROMETHANE
Concen: 0.46 PPBV
RT: 4.734 min Scan# 57
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 52 Resp: 4231

Ion	Ratio	Lower	Upper
52	100		
50	257.4	288.4	328.4#

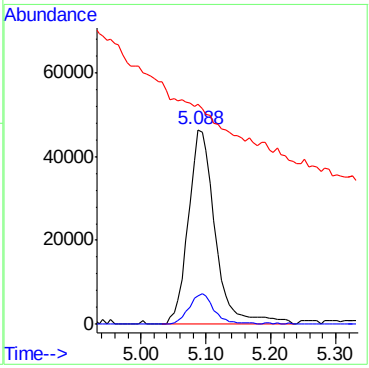


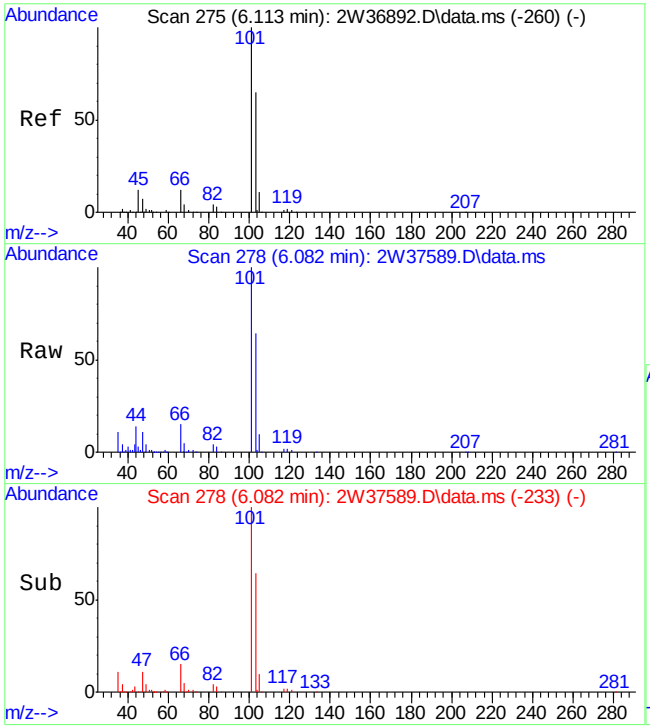


#11
n-BUTANE
Concen: 2.79 PPBV
RT: 5.088 min Scan# 115
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 43 Resp: 132873

Ion	Ratio	Lower	Upper
43	100		
58	14.5	11.0	16.6
44	0.0	2.6	4.0#

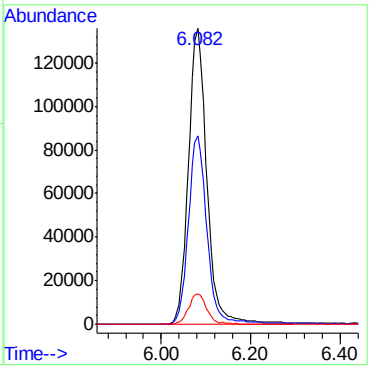


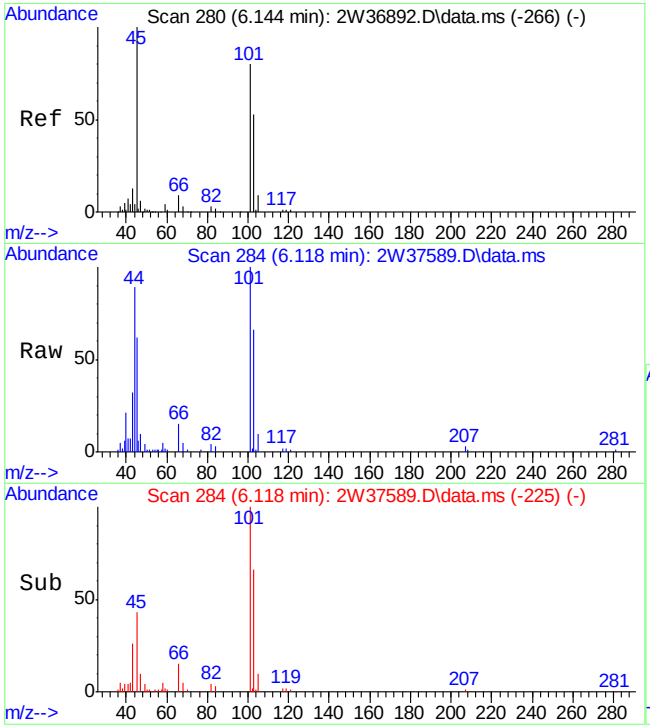


#18
TRICHLOROFLUOROMETHANE
Concen: 4.97 PPBV
RT: 6.082 min Scan# 278
Delta R.T. 0.001 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion:101 Resp: 391264

Ion	Ratio	Lower	Upper
101	100		
103	64.2	44.4	84.4
105	10.3	0.0	30.2

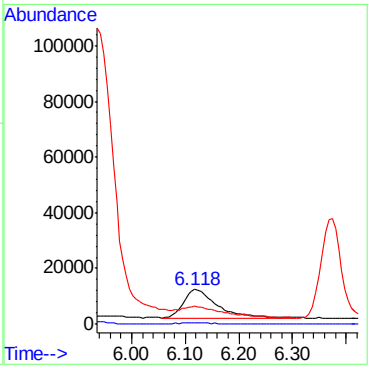


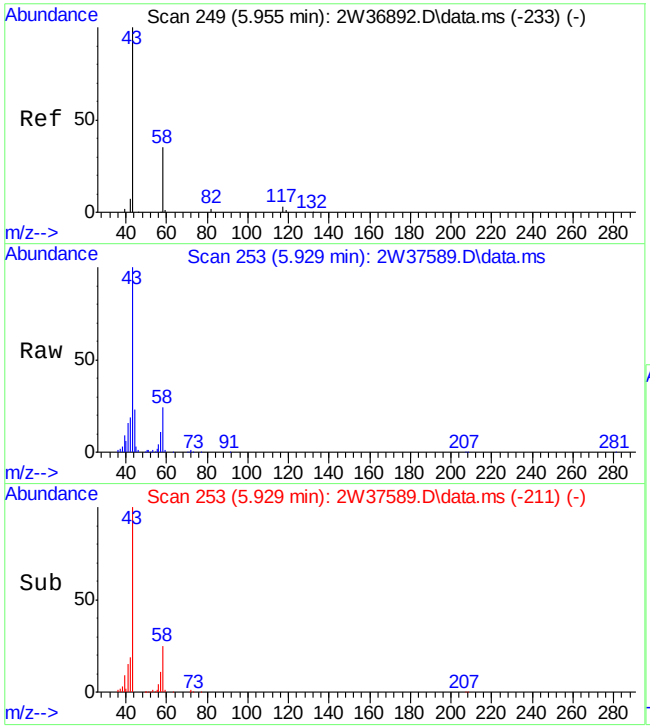


#19
ISOPROPYL ALCOHOL
Concen: 1.13 PPBV
RT: 6.118 min Scan# 284
Delta R.T. 0.012 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 45 Resp: 46258

Ion	Ratio	Lower	Upper
45	100		
59	4.0	0.0	24.3
43	51.7	1.0	41.0#

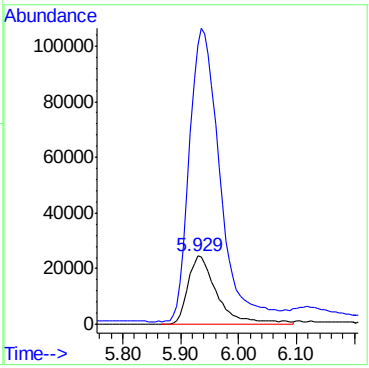


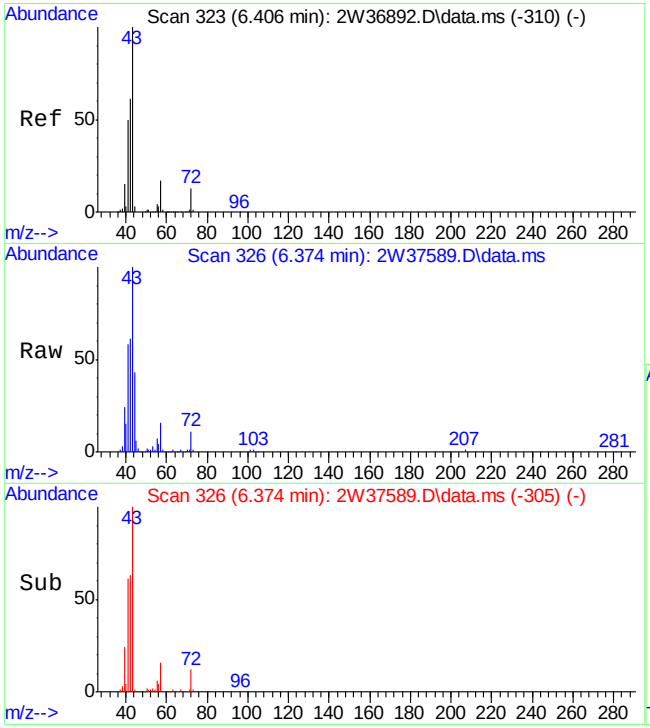


#20
ACETONE
Concen: 8.35 PPBV
RT: 5.929 min Scan# 253
Delta R.T. 0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 58 Resp: 86835

Ion	Ratio	Lower	Upper
58	100		
43	449.9	270.5	310.5#

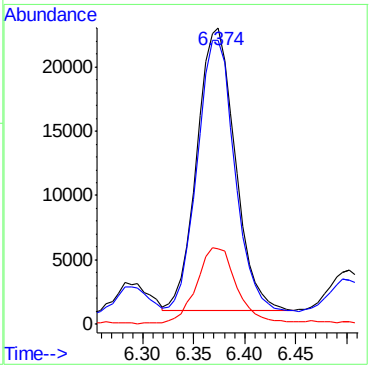


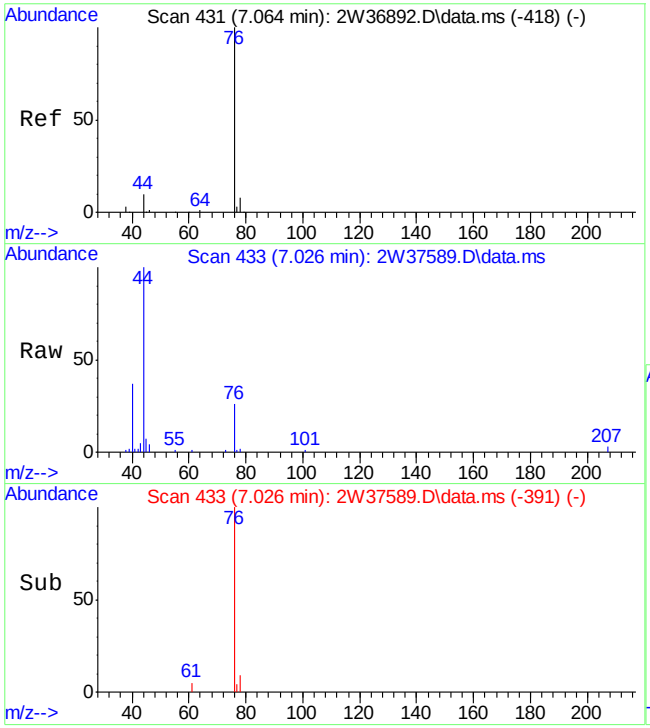


#21
PENTANE
Concen: 2.13 PPBV
RT: 6.374 min Scan# 326
Delta R.T. 0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 42 Resp: 57338

Ion	Ratio	Lower	Upper
42	100		
41	94.7	68.9	108.9
57	29.3	7.1	47.1

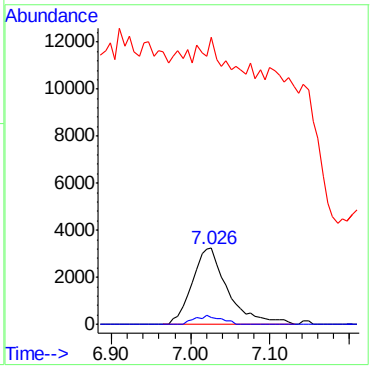


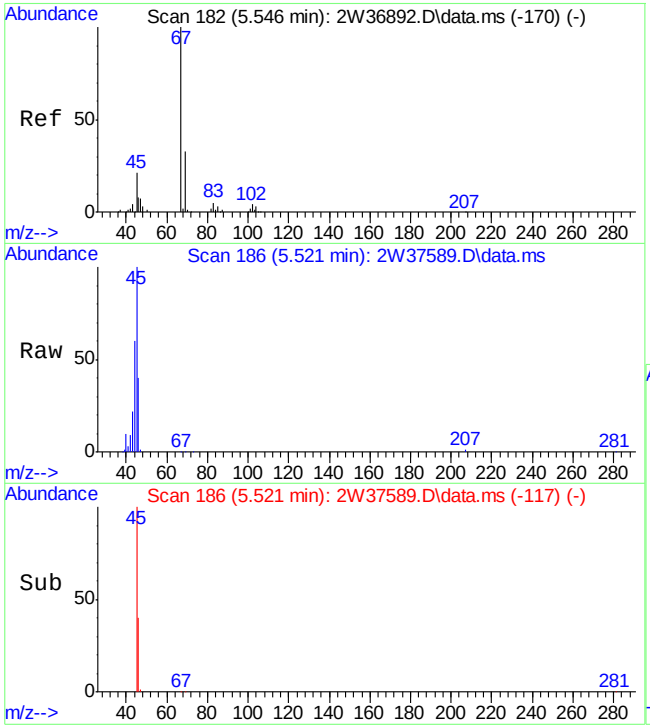


#26
CARBON DISULFIDE
Concen: 0.13 PPBV
RT: 7.026 min Scan# 433
Delta R.T. 0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 76 Resp: 10110

Ion	Ratio	Lower	Upper
76	100		
78	8.5	0.0	28.5
44	0.0	0.0	34.0

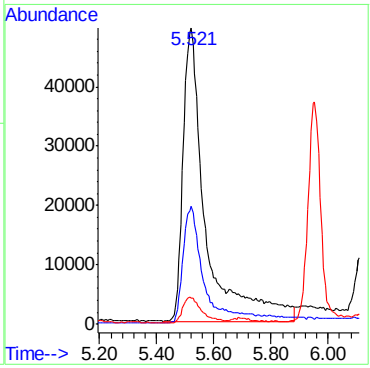


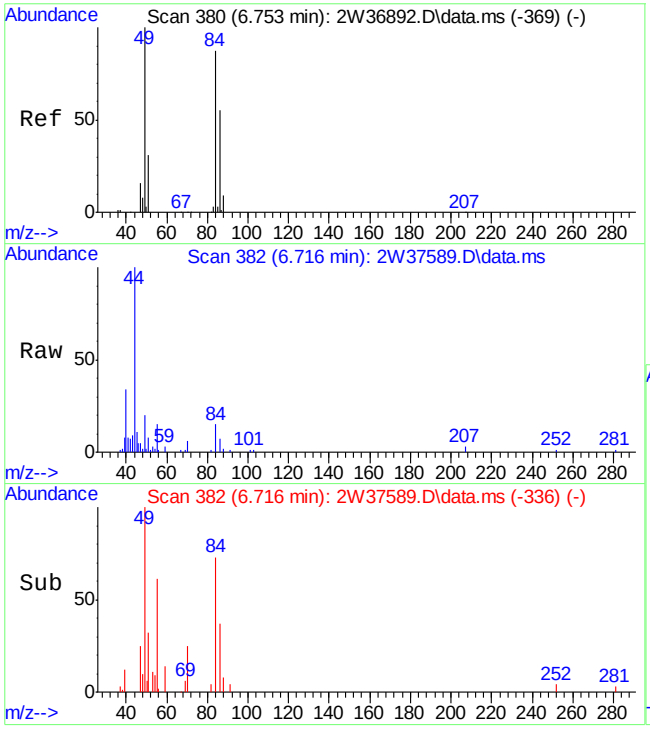


#27
ETHANOL
Concen: 32.42 PPBV
RT: 5.521 min Scan# 186
Delta R.T. 0.019 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 45 Resp: 273776

Ion	Ratio	Lower	Upper
45	100		
46	37.4	10.6	70.6
42	7.8	0.0	38.3

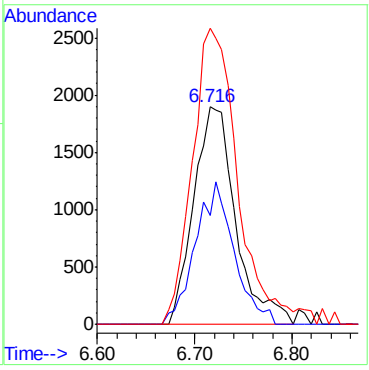


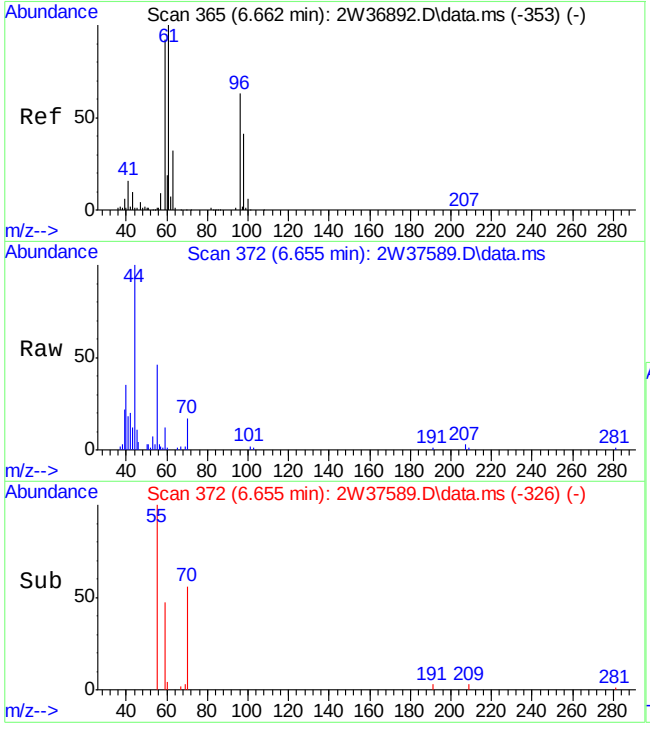


#30
METHYLENE CHLORIDE
Concen: 0.24 PPBV
RT: 6.716 min Scan# 382
Delta R.T. -0.000 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 84 Resp: 5671

Ion	Ratio	Lower	Upper
84	100		
86	60.3	44.9	84.9
49	148.1	0.0	335.2

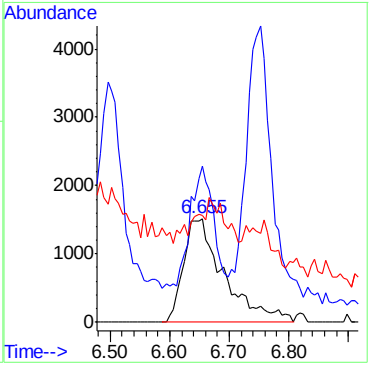


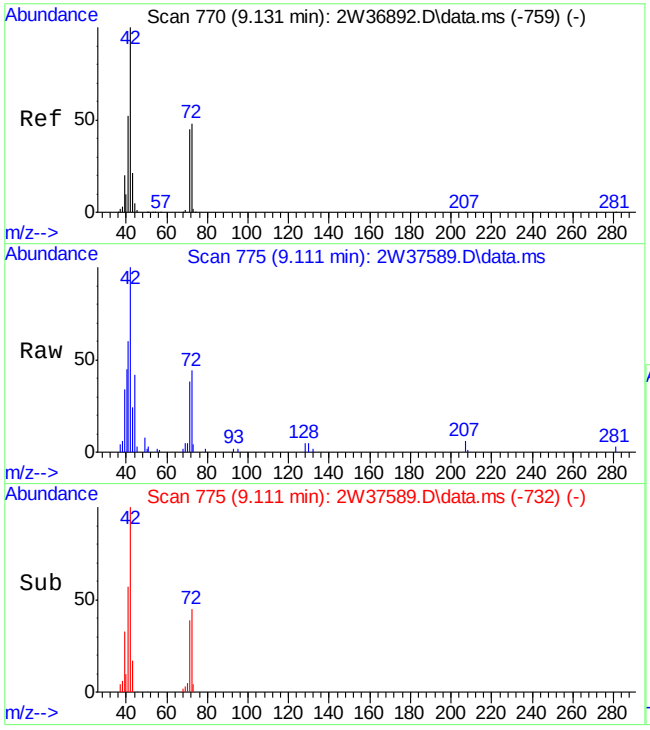


#34
TERTIARY BUTYL ALCOHOL
Concen: 0.12 PPBV
RT: 6.655 min Scan# 372
Delta R.T. 0.031 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 59 Resp: 7084

Ion	Ratio	Lower	Upper
59	100		
41	70.4	0.0	37.2#
43	39.3	0.0	33.5#

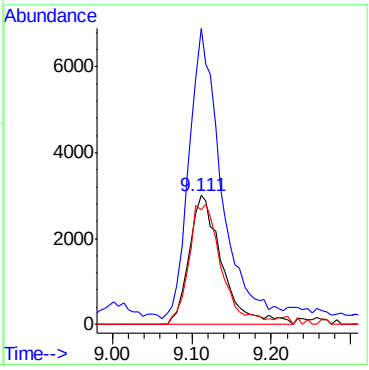


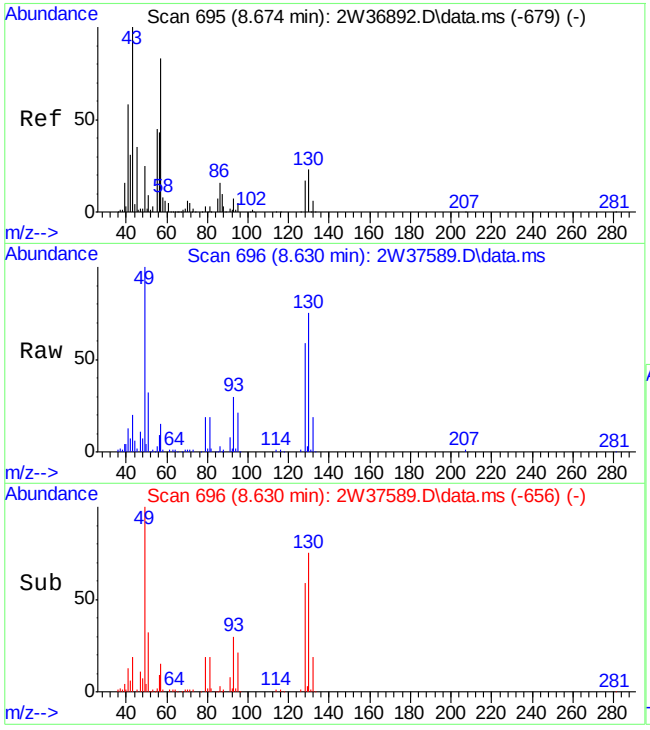


#36
TETRAHYDROFURAN
Concen: 0.83 PPBV
RT: 9.111 min Scan# 775
Delta R.T. 0.012 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 72 Resp: 8633

Ion	Ratio	Lower	Upper
72	100		
42	219.3	211.9	251.9
71	92.4	76.3	116.3

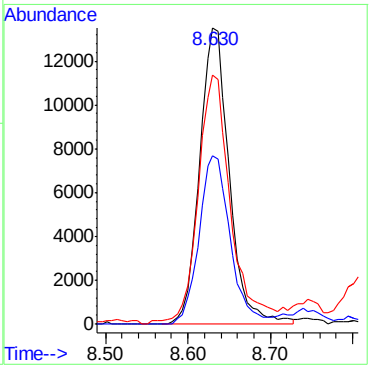


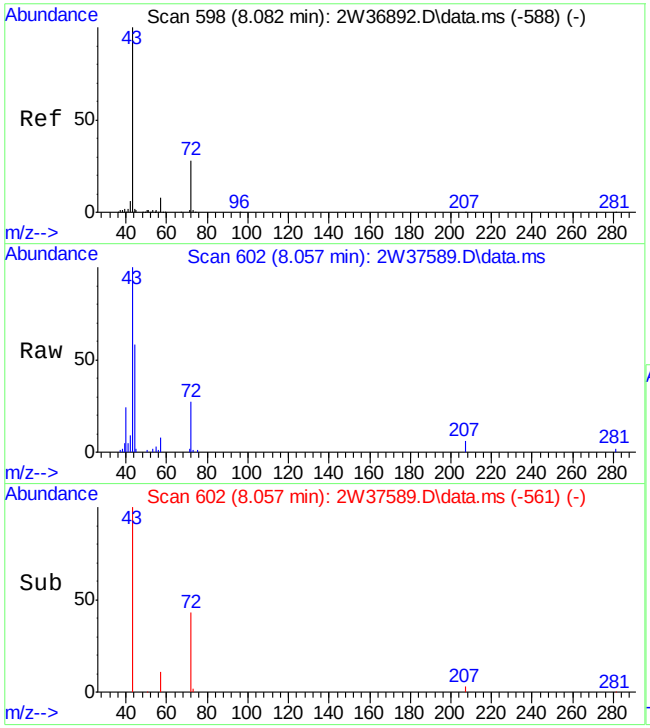


#37
HEXANE
Concen: 0.72 PPBV
RT: 8.630 min Scan# 696
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 57 Resp: 33837

Ion	Ratio	Lower	Upper
57	100		
56	59.8	33.9	73.9
41	92.2	77.9	117.9

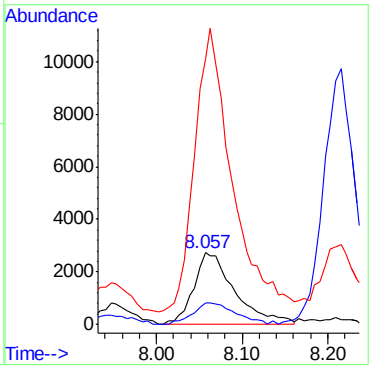


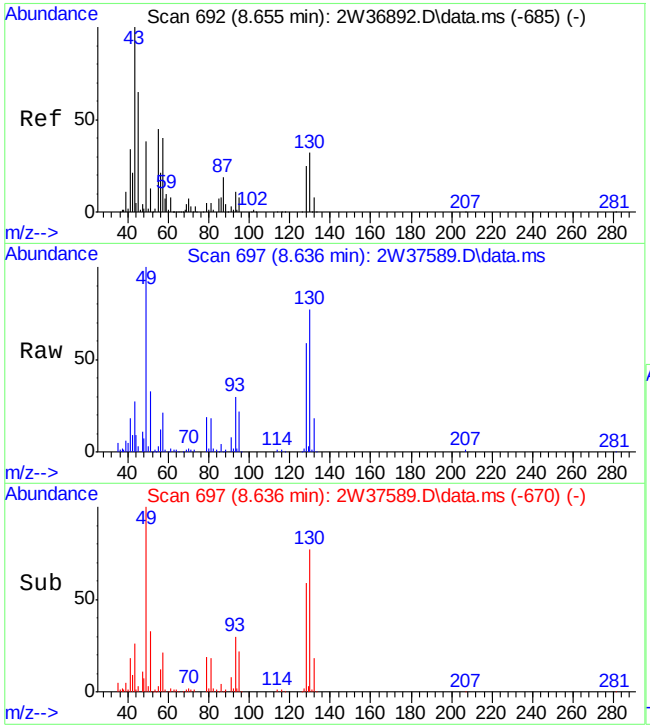


#40
METHYL ETHYL KETONE
Concen: 0.87 PPBV
RT: 8.057 min Scan# 602
Delta R.T. 0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 72 Resp: 9081

Ion	Ratio	Lower	Upper
72	100		
57	30.1	14.2	54.2
43	371.9	395.6	435.6#

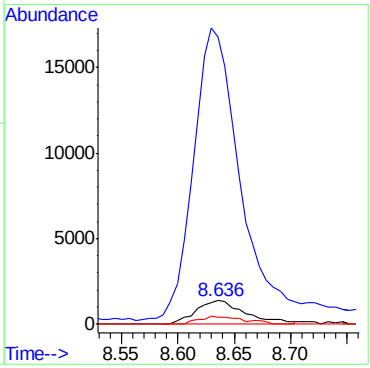


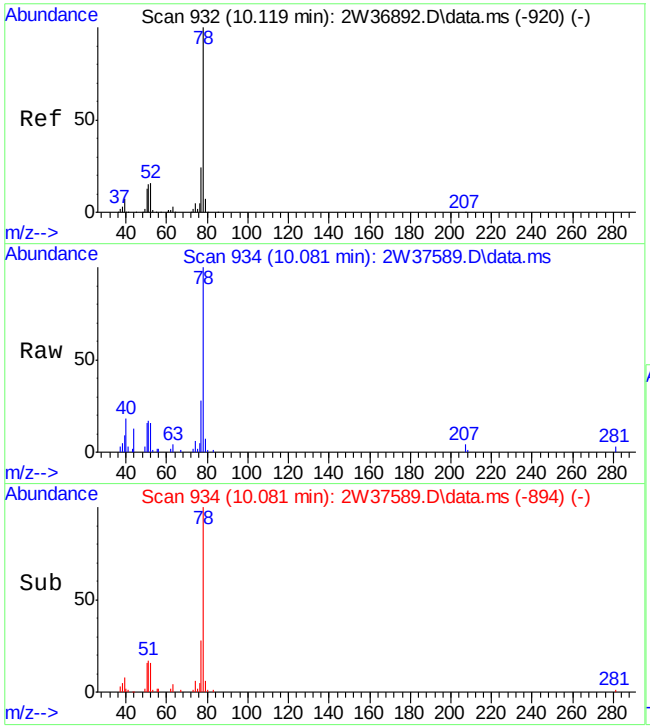


#42
ETHYL ACETATE
Concen: 0.62 PPBV
RT: 8.636 min Scan# 697
Delta R.T. 0.012 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 61 Resp: 4172

Ion	Ratio	Lower	Upper
61	100		
43	1251.2	1612.5	1652.5#
88	28.9	19.8	59.8

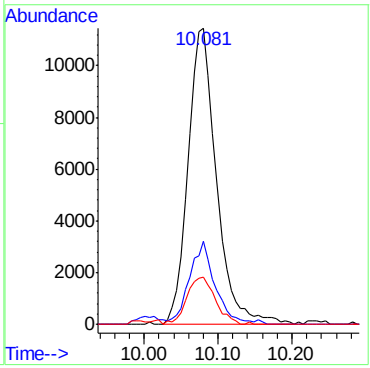


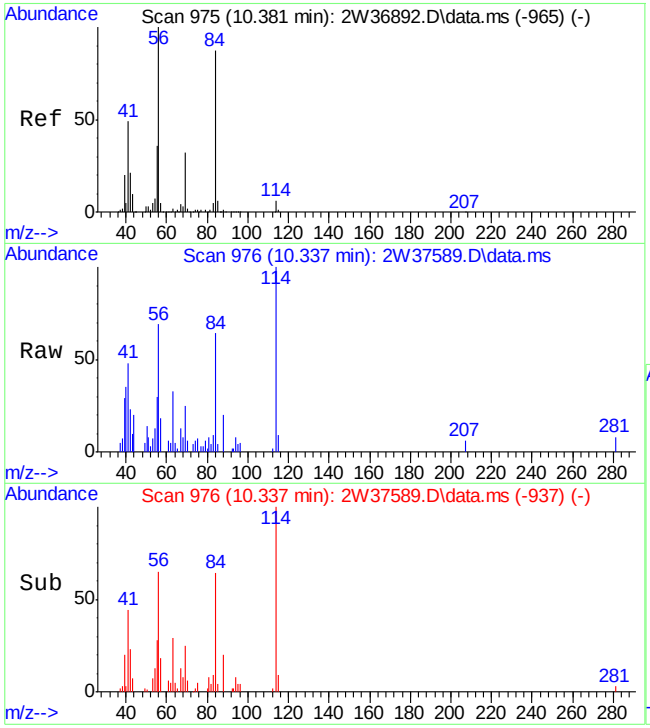


#50
BENZENE
Concen: 0.45 PPBV
RT: 10.081 min Scan# 934
Delta R.T. -0.000 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 78 Resp: 30367

Ion	Ratio	Lower	Upper
78	100		
77	25.4	4.3	44.3
52	15.9	0.0	37.1

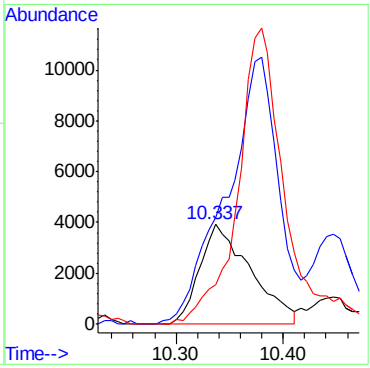


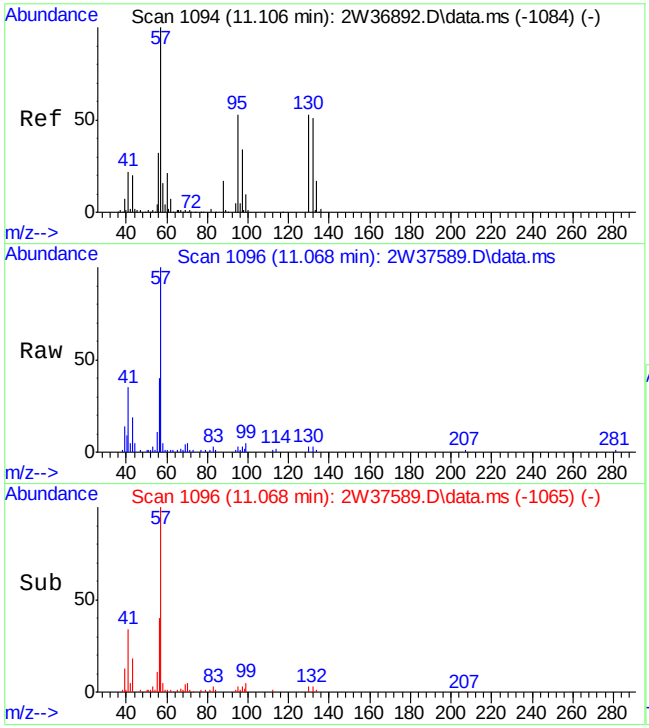


#51
CYCLOHEXANE
Concen: 0.32 PPBV
RT: 10.337 min Scan# 976
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 84 Resp: 12931

Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.4	148.4#
69	0.0	25.3	65.3#

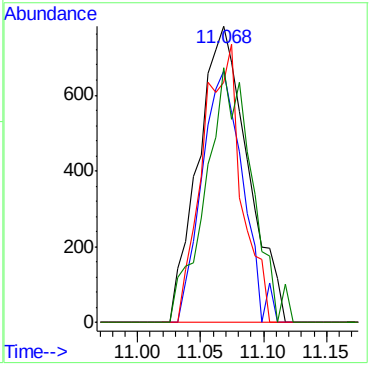


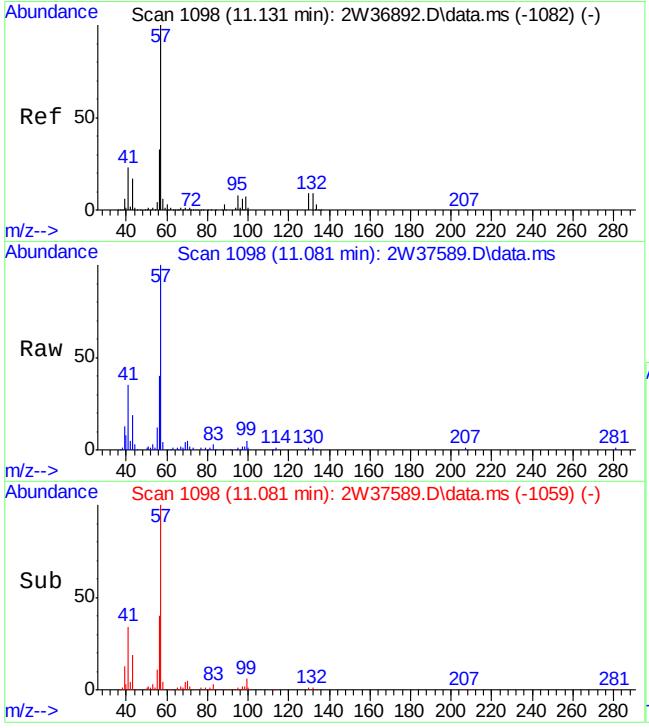


#54
TRICHLOROETHYLENE
Concen: 0.06 PPBV
RT: 11.068 min Scan# 1096
Delta R.T. 0.000 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 95 Resp: 2132

Ion	Ratio	Lower	Upper
95	100		
132	70.4	74.9	114.9#
130	73.7	79.2	119.2#
97	80.7	45.3	85.3

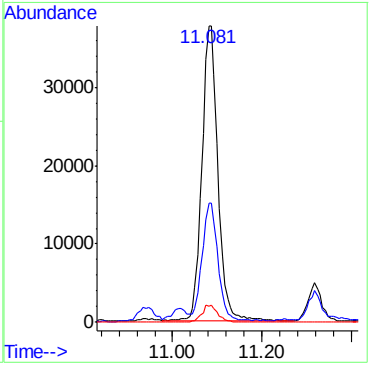


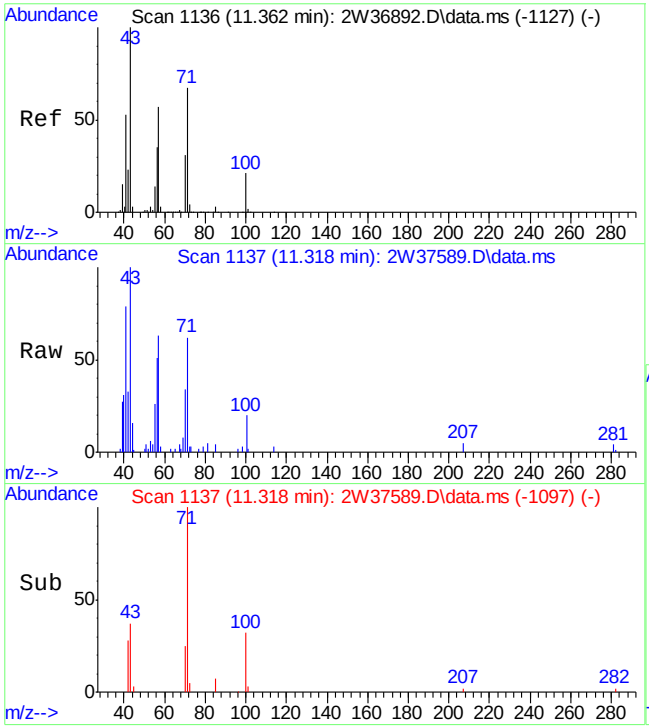


#58
2,2,4-TRIMETHYLPENTANE
Concen: 0.75 PPBV
RT: 11.081 min Scan# 1098
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 57 Resp: 94299

Ion	Ratio	Lower	Upper
57	100		
56	39.8	11.7	51.7
99	5.6	0.0	27.7

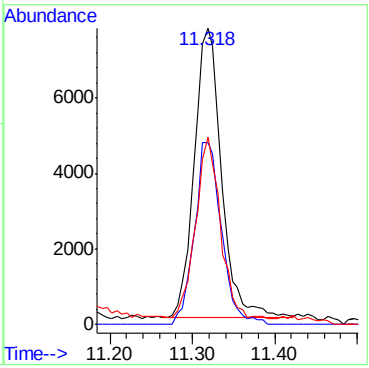


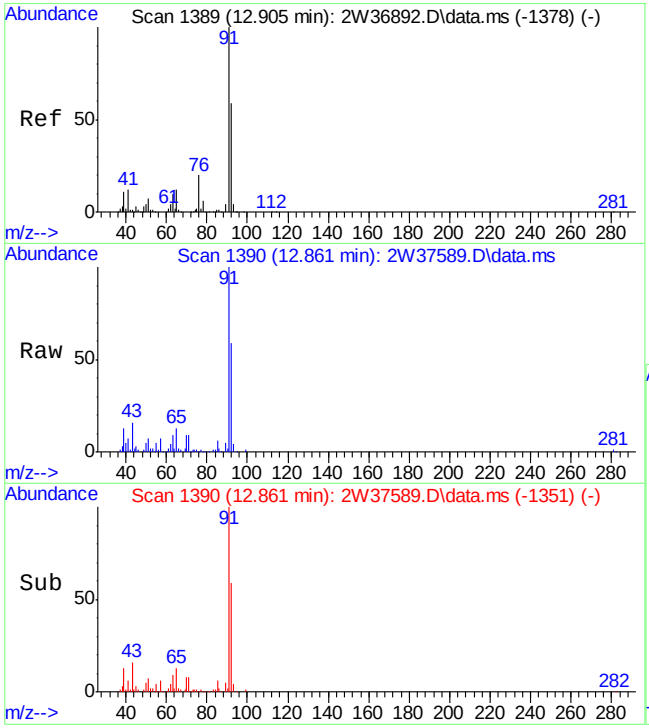


#61
HEPTANE
Concen: 0.38 PPBV
RT: 11.318 min Scan# 1137
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 43 Resp: 17679

Ion	Ratio	Lower	Upper
43	100		
71	62.0	39.8	79.8
57	58.3	34.5	74.5

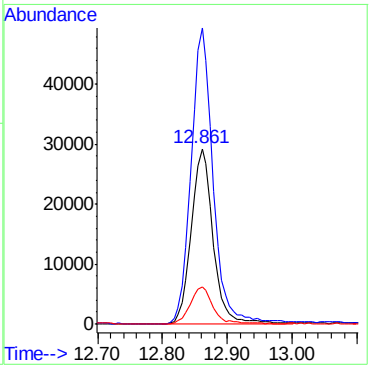


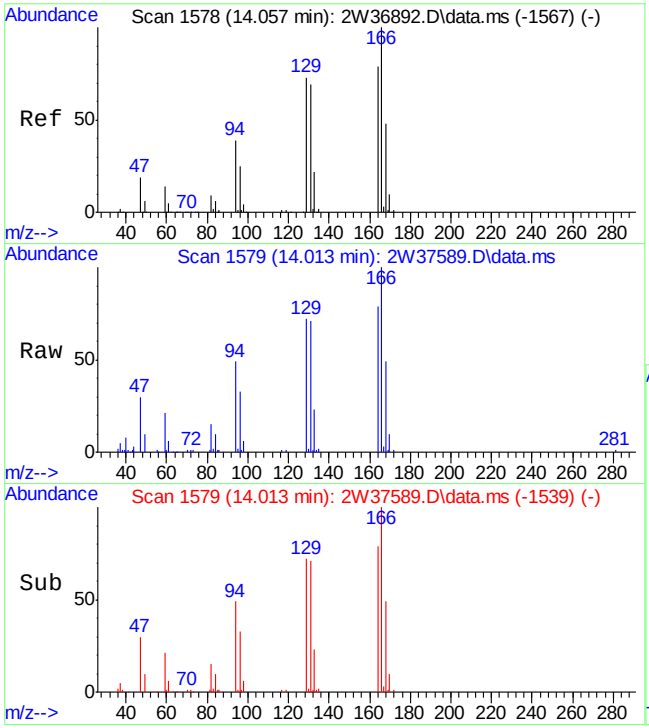


#65
TOLUENE
Concen: 1.55 PPBV
RT: 12.861 min Scan# 1390
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 92 Resp: 68518

Ion	Ratio	Lower	Upper
92	100		
91	172.5	151.3	191.3
65	22.1	3.8	43.8

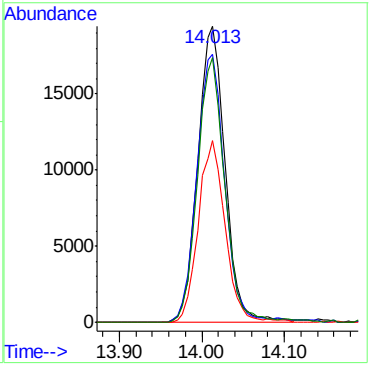


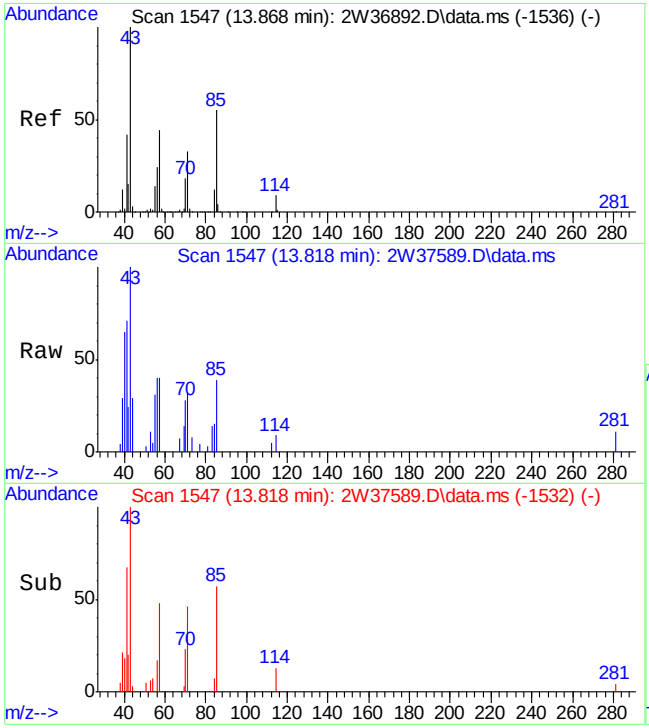


#71
TETRACHLOROETHYLENE
Concen: 1.25 PPBV
RT: 14.013 min Scan# 1579
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion:164 Resp: 44715

Ion	Ratio	Lower	Upper
164	100		
129	93.4	72.7	112.7
168	60.3	41.8	81.8
131	88.8	69.2	109.2

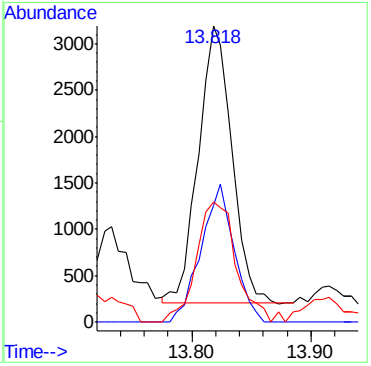


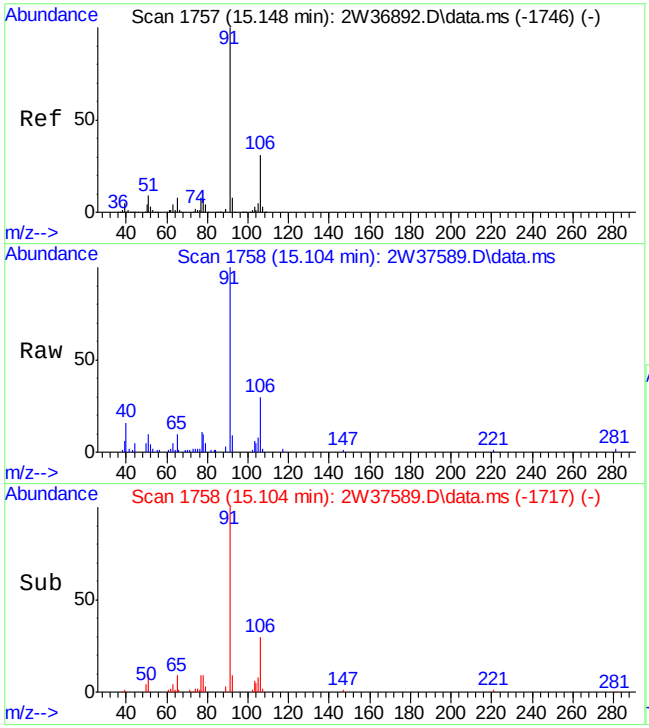


#74
OCTANE
Concen: 0.12 PPBV
RT: 13.818 min Scan# 1547
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 43 Resp: 5851

Ion	Ratio	Lower	Upper
43	100		
85	49.0	38.5	57.7
57	51.1	33.0	49.6#

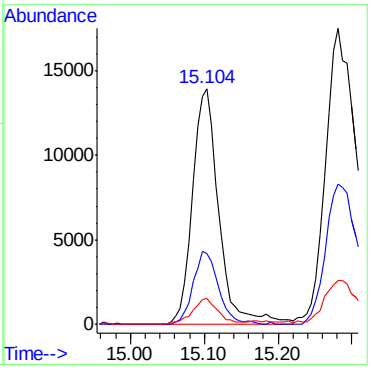


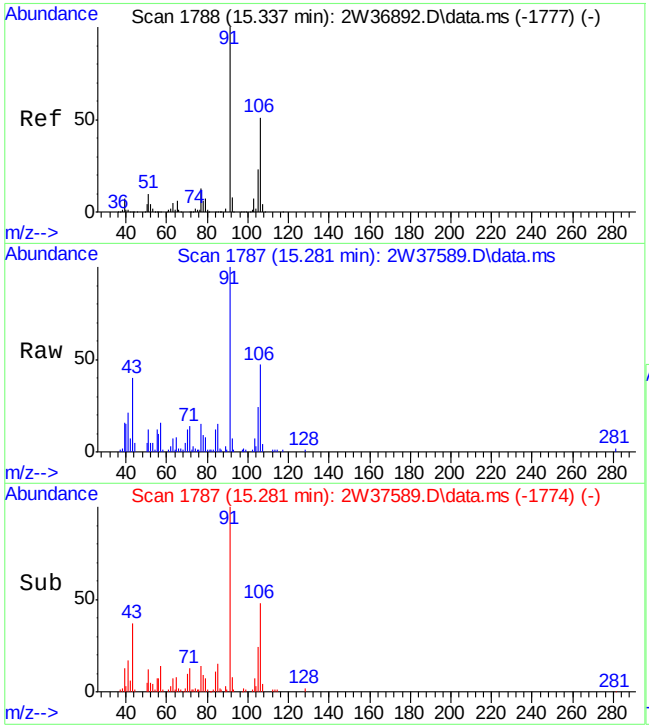


#77
ETHYLBENZENE
Concen: 0.41 PPBV
RT: 15.104 min Scan# 1758
Delta R.T. 0.000 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 91 Resp: 34061

Ion	Ratio	Lower	Upper
91	100		
106	29.5	10.4	50.4
77	10.8	0.0	28.9

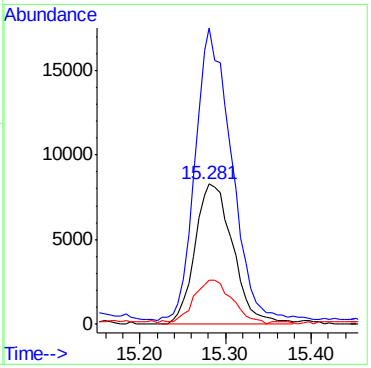


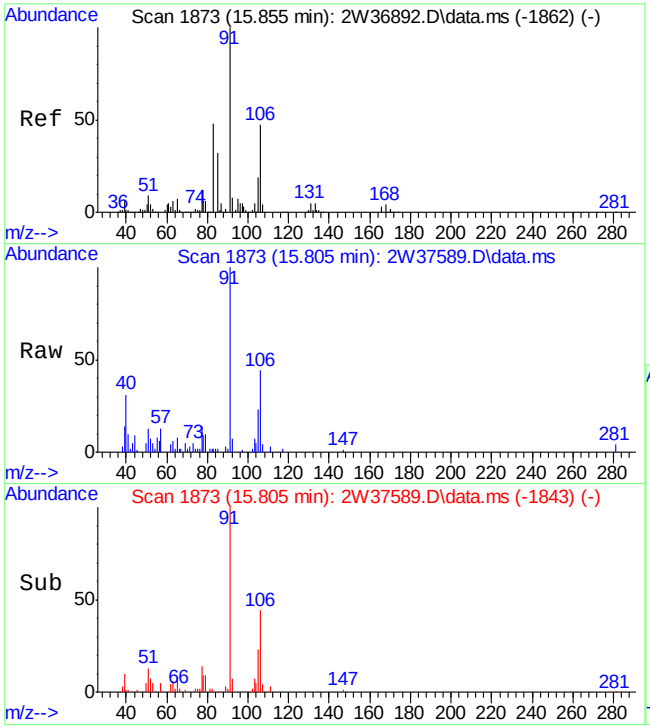


#78
m,p-XYLENE
Concen: 0.80 PPBV
RT: 15.281 min Scan# 1787
Delta R.T. -0.018 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion:106 Resp: 25469

Ion	Ratio	Lower	Upper
106	100		
91	211.4	164.8	247.2
77	30.9	22.3	33.5

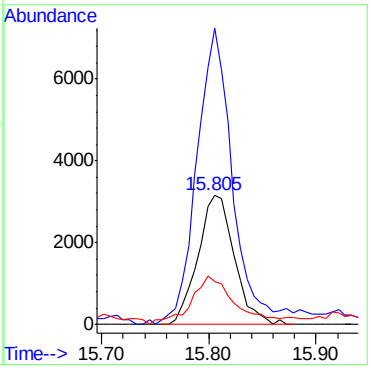


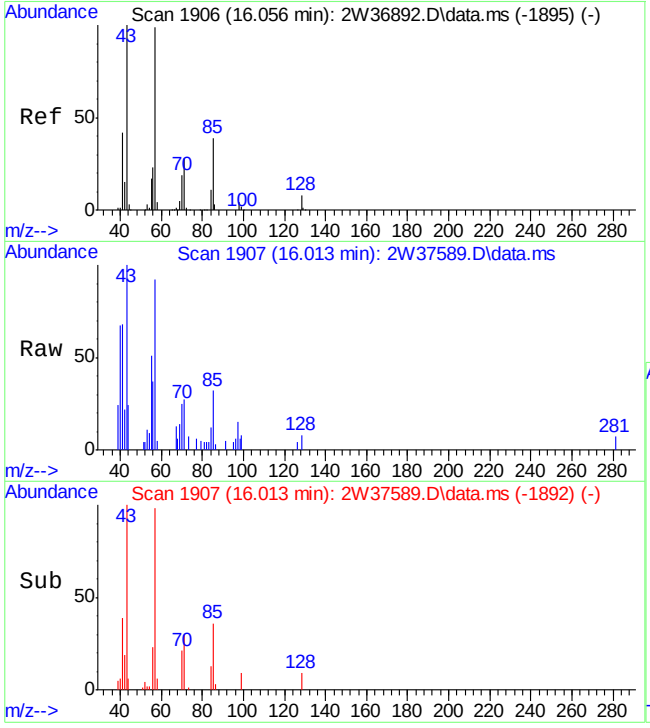


#79
o-XYLENE
Concen: 0.24 PPBV
RT: 15.805 min Scan# 1873
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion:106 Resp: 7422

Ion	Ratio	Lower	Upper
106	100		
91	232.9	201.0	241.0
77	44.6	8.1	48.1

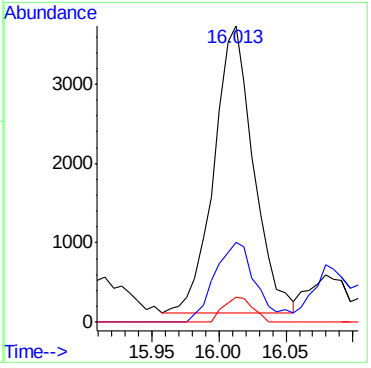


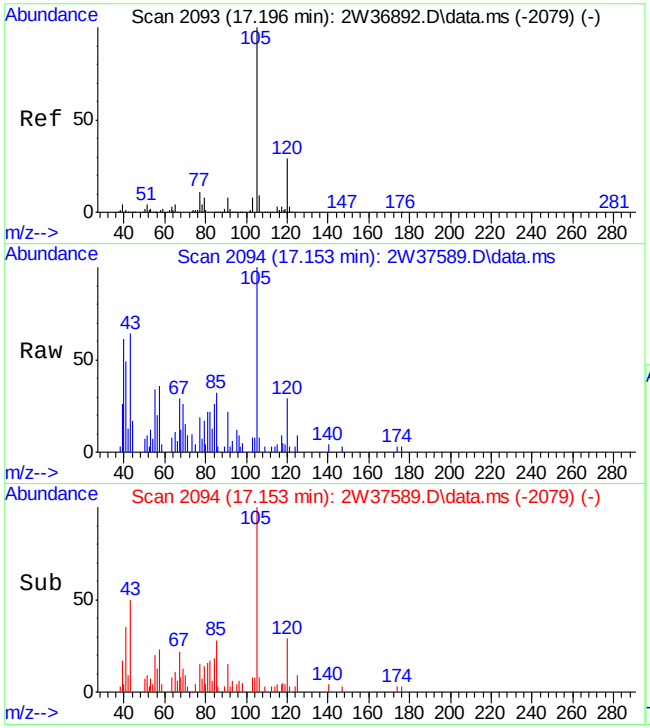


#81
NONANE
Concen: 0.17 PPBV
RT: 16.013 min Scan# 1907
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion: 43 Resp: 7435

Ion	Ratio	Lower	Upper
43	100		
71	29.4	5.4	45.4
128	6.3	0.0	27.0

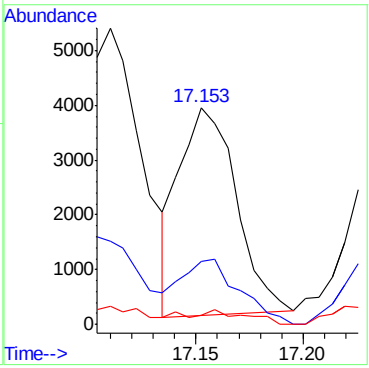


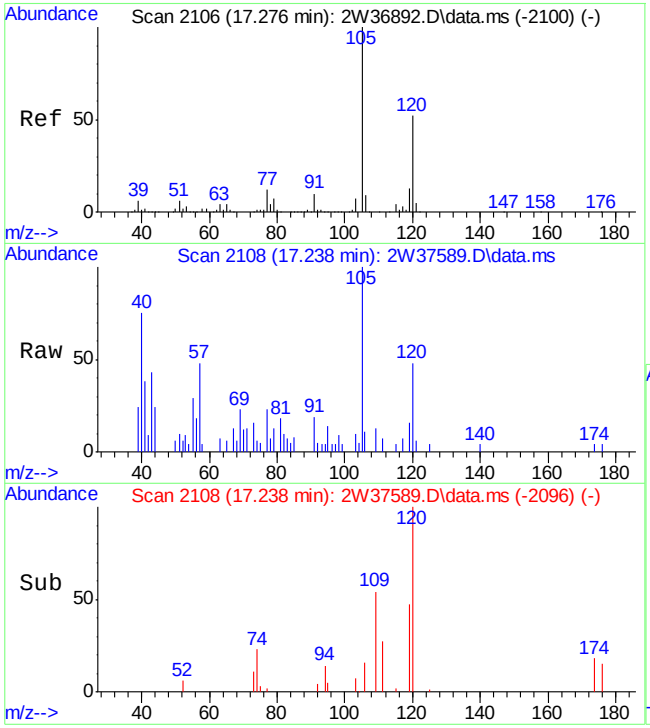


#89
4-ETHYLTOLUENE
Concen: 0.10 PPBV
RT: 17.153 min Scan# 2094
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion:105 Resp: 6998

Ion	Ratio	Lower	Upper
105	100		
120	32.4	8.2	48.2
119	5.5	0.0	22.3

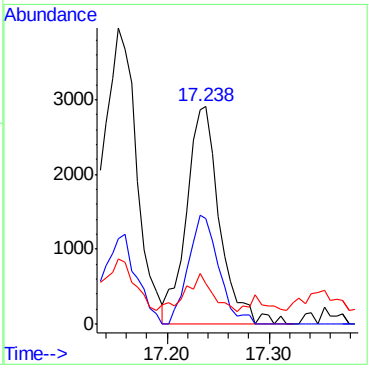


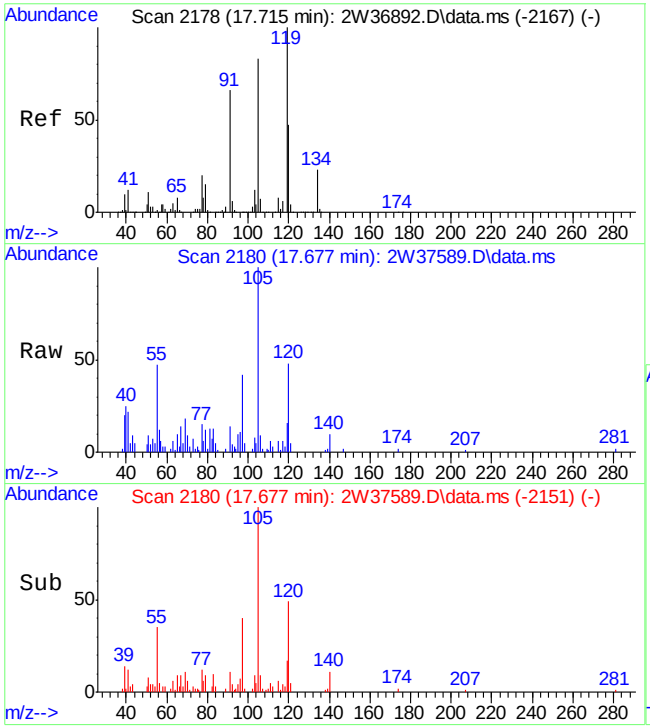


#90
1,3,5-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 17.238 min Scan# 2108
Delta R.T. -0.000 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion:105 Resp: 6571

Ion	Ratio	Lower	Upper
105	100		
120	45.8	27.8	67.8
91	14.5	0.0	30.6

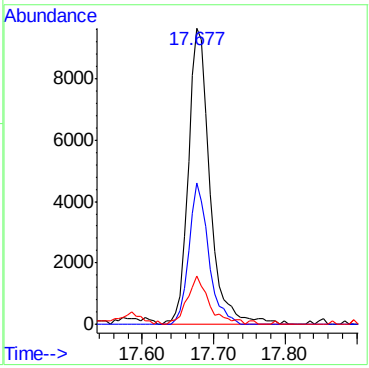




#93
1,2,4-TRIMETHYLBENZENE
Concen: 0.36 PPBV
RT: 17.677 min Scan# 2180
Delta R.T. -0.006 min
Lab File: 2W37589.D
Acq: 28 Feb 2013 7:52 pm

Tgt Ion:105 Resp: 20296

Ion	Ratio	Lower	Upper
105	100		
120	43.3	34.7	74.7
119	16.7	95.9	135.9#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32500.D Vial: 12
Acq On : 1 Mar 2013 10:10 pm Operator: yunxiac
Sample : JB30025-6DUP Inst : MS3W
Misc : MS44080,V3W1260,400,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:43 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

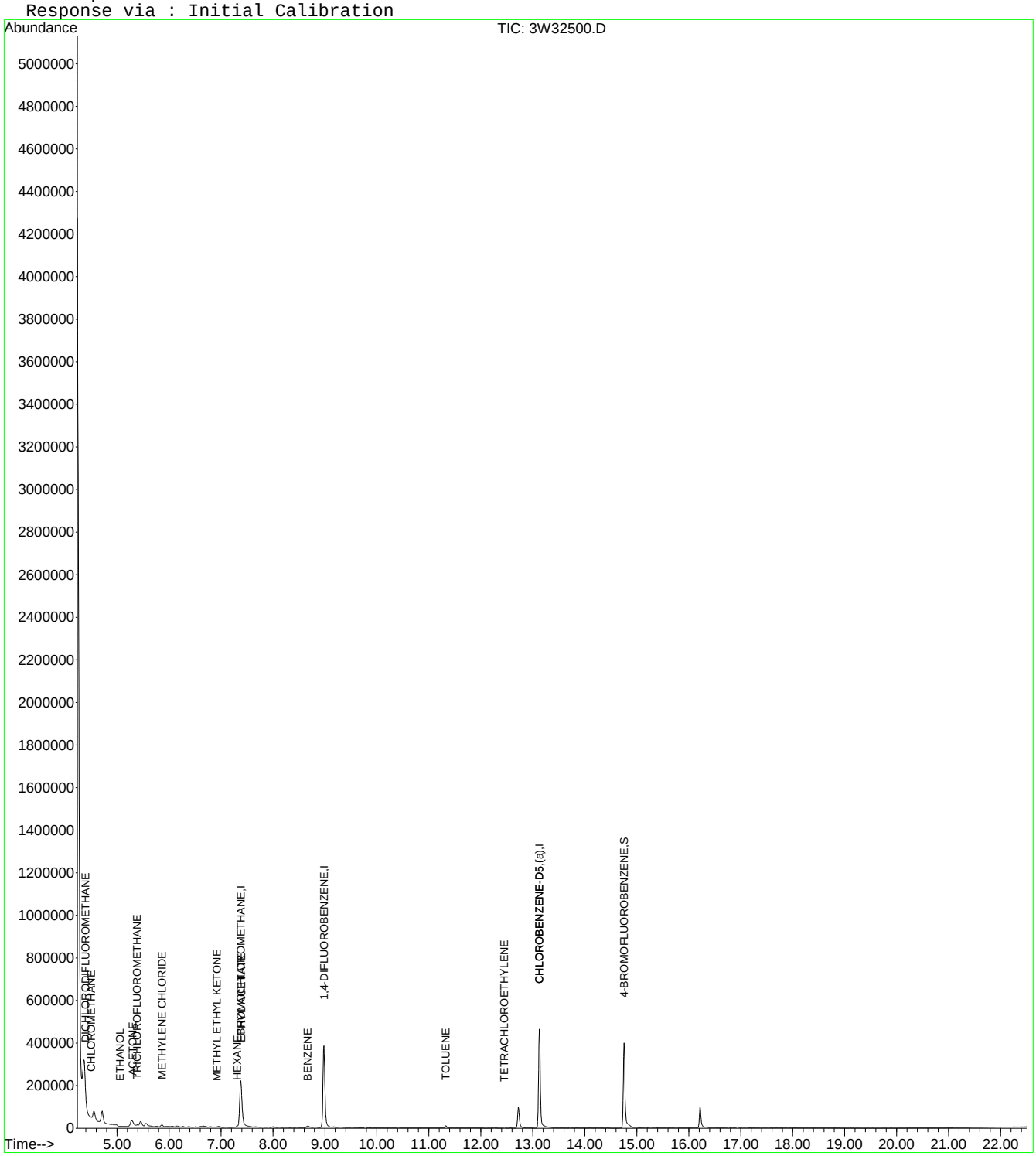
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.38	128	82764	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	8.98	114	435723	10.00	PPBV	-0.03
68) CHLOROBENZENE-D5	13.12	82	202539	10.00	PPBV	-0.03
105) CHLOROBENZENE-D5 (a)	13.12	82	203671	10.00	PPBV	-0.03
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.75	95	181419	9.01	PPBV	-0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.10%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.40	85	18166	0.63	PPBV #	94
8) CHLOROMETHANE	4.51	50	8907	0.62	PPBV	93
18) TRICHLOROFLUOROMETHANE	5.38	101	7018	0.25	PPBV	80
20) ACETONE	5.31	58	12396	2.22	PPBV #	53
26) ETHANOL	5.06	45	8389	1.60	PPBV #	91
29) METHYLENE CHLORIDE	5.87	84	4521	0.39	PPBV	88
36) HEXANE	7.31	57	4307	0.22	PPBV	89
39) METHYL ETHYL KETONE	6.92	72	1154	0.22	PPBV #	77
42) ETHYL ACETATE	7.40	61	7700	1.77	PPBV #	53
50) BENZENE	8.66	78	8037	0.20	PPBV	94
65) TOLUENE	11.33	92	6005	0.24	PPBV	97
71) TETRACHLOROETHYLENE	12.45	164	1365	0.08	PPBV	94

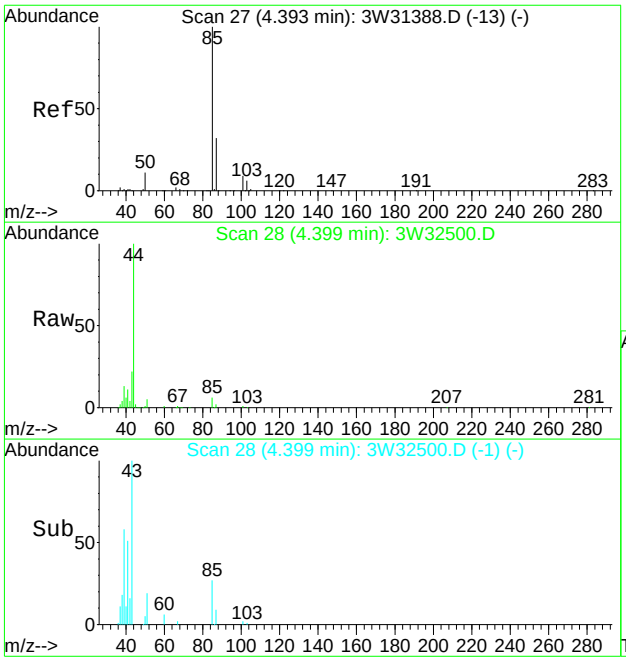
(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32500.D M3W1230.M Mon Mar 04 10:21:43 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32500.D Vial: 12
Acq On : 1 Mar 2013 10:10 pm Operator: yunxiac
Sample : JB30025-6DUP Inst : MS3W
Misc : MS44080,V3W1260,400,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 10:01 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

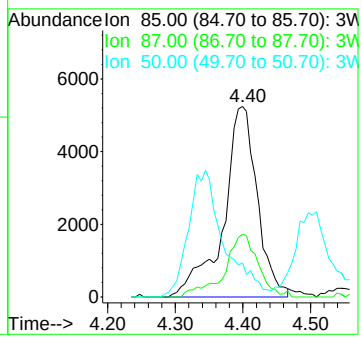


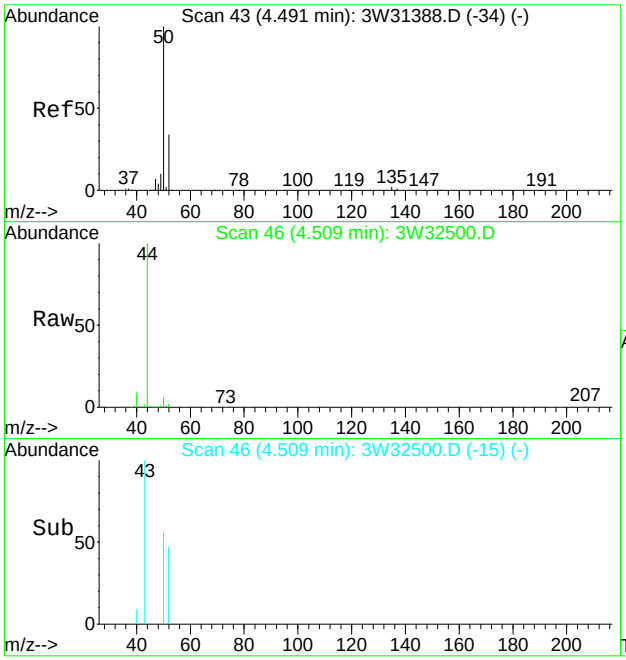


#5
DICHLORODIFLUOROMETHANE
Concen: 0.63 PPBV
RT: 4.40 min Scan# 28
Delta R.T. -0.01 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 85 Resp: 18166

Ion	Ratio	Lower	Upper
85	100		
87	32.6	12.3	52.3
50	0.0	0.0	29.4

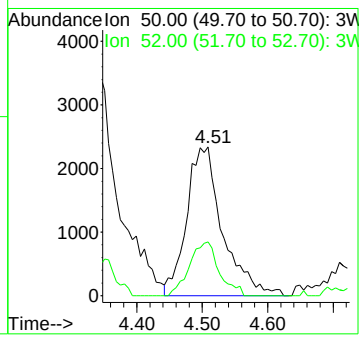


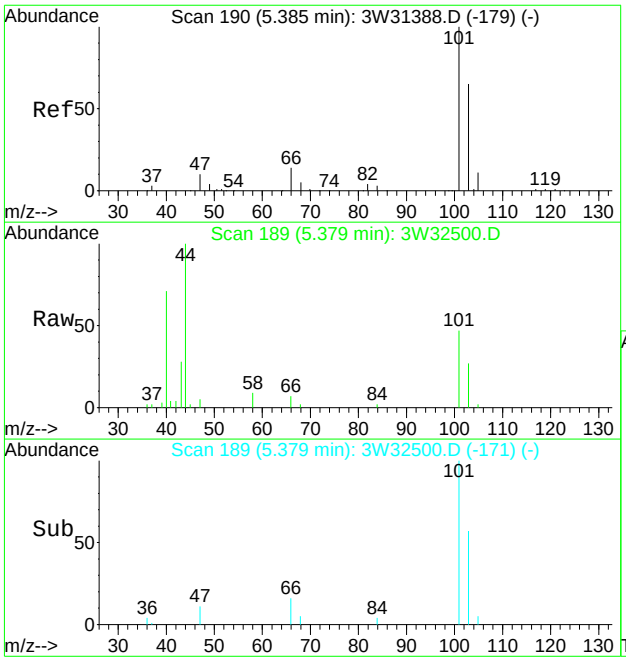


#8
CHLOROMETHANE
Concen: 0.62 PPBV
RT: 4.51 min Scan# 46
Delta R.T. 0.01 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 50 Resp: 8907

Ion	Ratio	Lower	Upper
50	100		
52	37.4	13.6	53.6

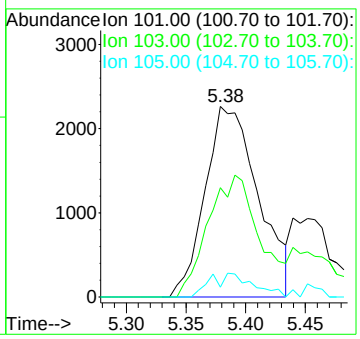


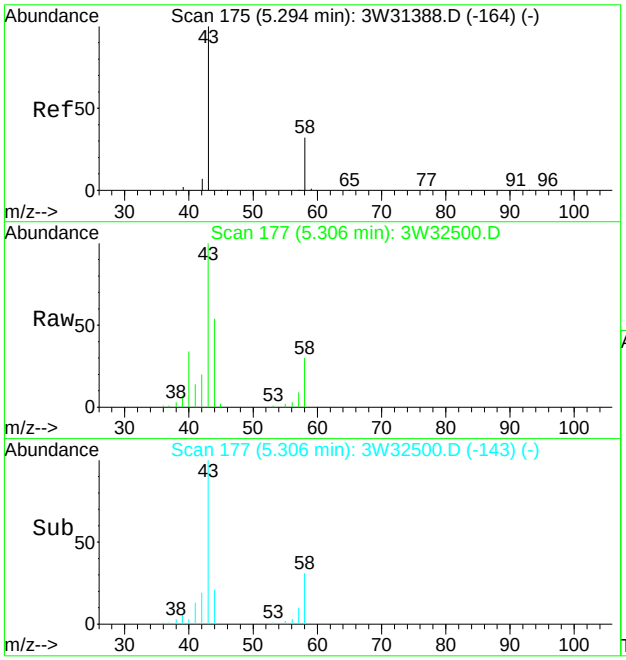


#18
TRICHLOROFLUOROMETHANE
Concen: 0.25 PPBV
RT: 5.38 min Scan# 189
Delta R.T. -0.02 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion:101 Resp: 7018

Ion	Ratio	Lower	Upper
101	100		
103	81.0	44.9	84.9
105	3.2	0.0	30.6

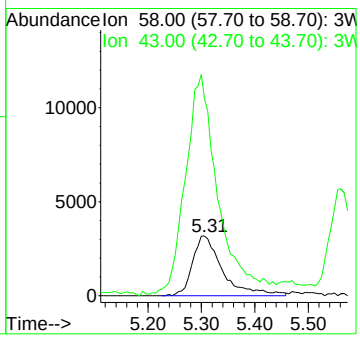


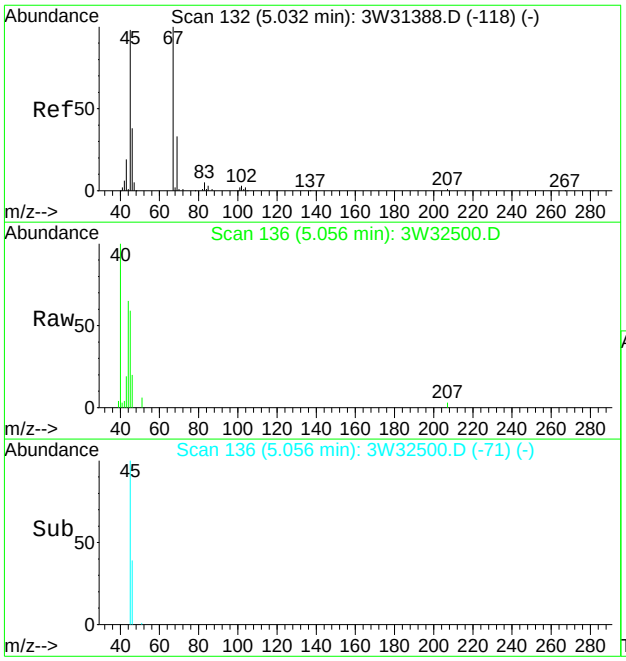


#20
ACETONE
Concen: 2.22 PPBV
RT: 5.31 min Scan# 177
Delta R.T. 0.01 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 58 Resp: 12396

Ion	Ratio	Lower	Upper
58	100		
43	405.2	290.7	330.7#

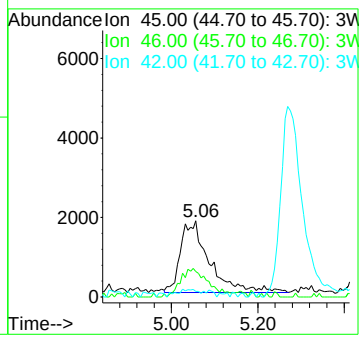


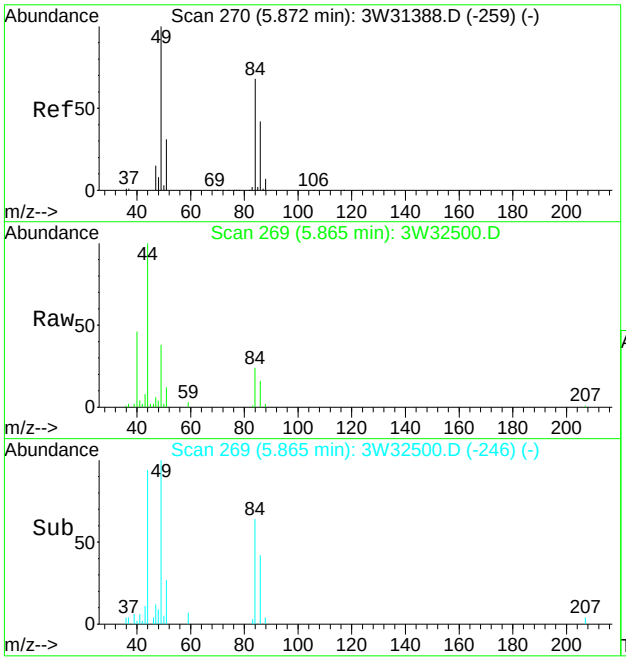


#26
ETHANOL
Concen: 1.60 PPBV
RT: 5.06 min Scan# 136
Delta R.T. 0.02 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 45 Resp: 8389

Ion	Ratio	Lower	Upper
45	100		
46	41.0	16.5	56.5
42	0.0	0.0	26.8

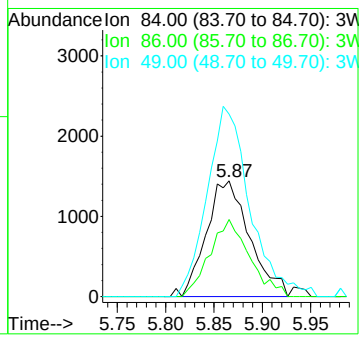


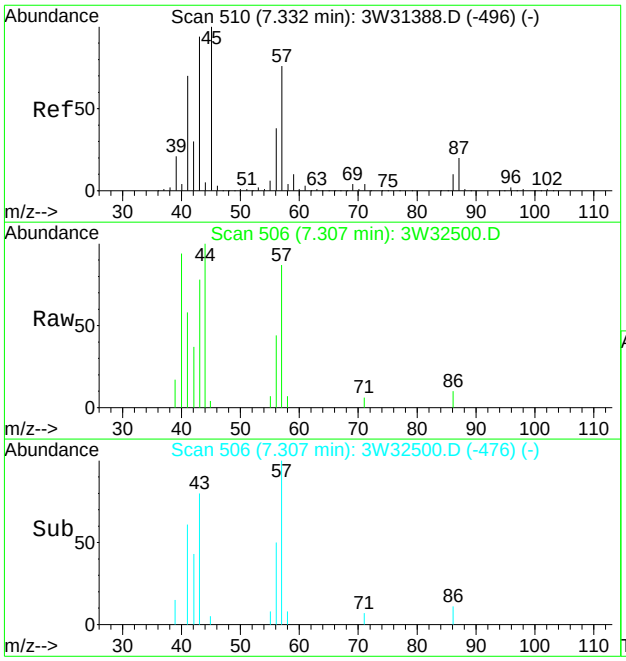


#29
METHYLENE CHLORIDE
Concen: 0.39 PPBV
RT: 5.87 min Scan# 269
Delta R.T. -0.01 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 84 Resp: 4521

Ion	Ratio	Lower	Upper
84	100		
86	61.1	47.7	87.7
49	161.7	0.0	344.9

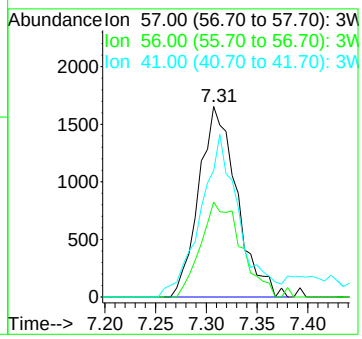


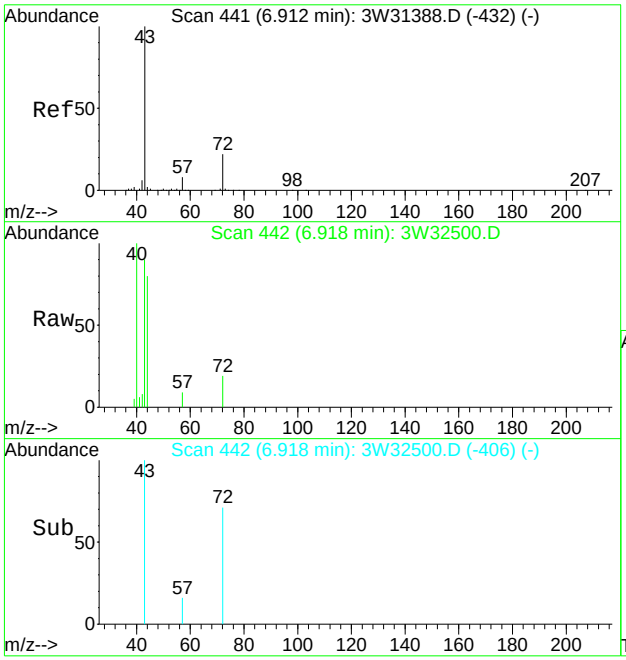


#36
HEXANE
Concen: 0.22 PPBV
RT: 7.31 min Scan# 506
Delta R.T. -0.02 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 57 Resp: 4307

Ion	Ratio	Lower	Upper
57	100		
56	53.0	30.0	70.0
41	86.4	80.4	120.4

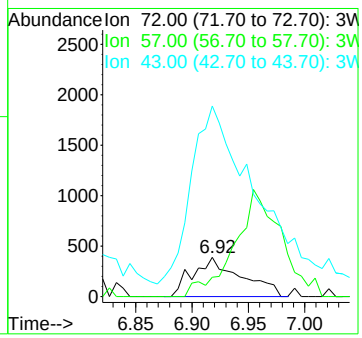


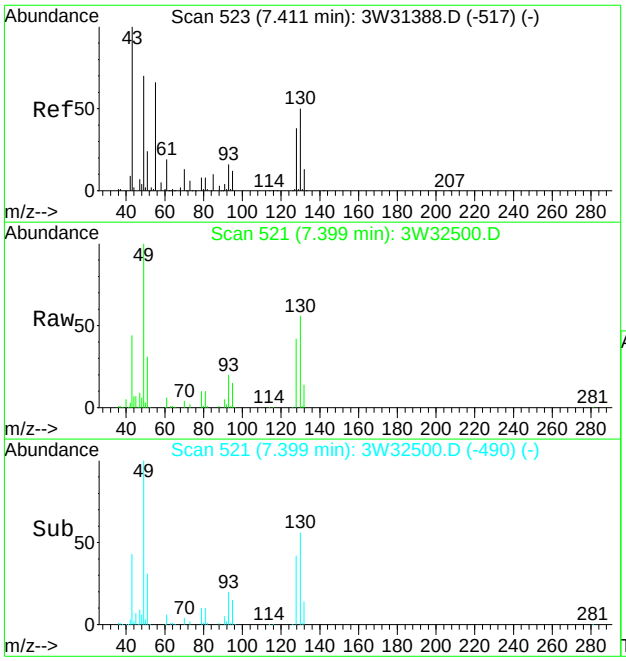


#39
METHYL ETHYL KETONE
Concen: 0.22 PPBV
RT: 6.92 min Scan# 442
Delta R.T. 0.01 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 72 Resp: 1154

Ion	Ratio	Lower	Upper
72	100		
57	49.0	10.3	50.3
43	483.8	409.6	449.6#

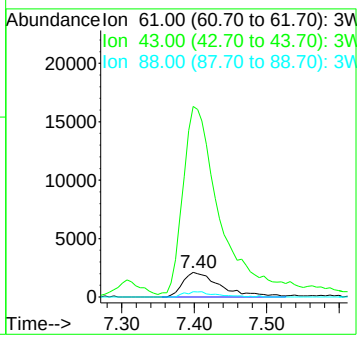


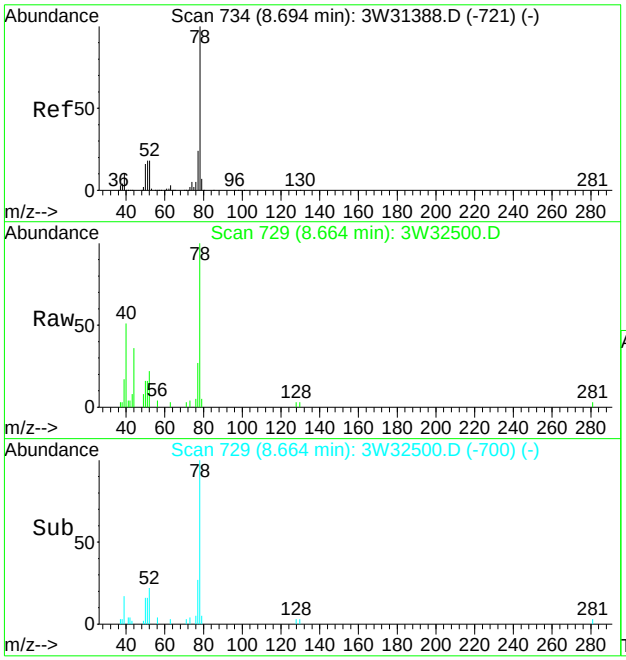


#42
ETHYL ACETATE
Concen: 1.77 PPBV
RT: 7.40 min Scan# 521
Delta R.T. -0.01 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 61 Resp: 7700

Ion	Ratio	Lower	Upper
61	100		
43	811.8	632.9	672.9#
88	17.5	3.8	43.8

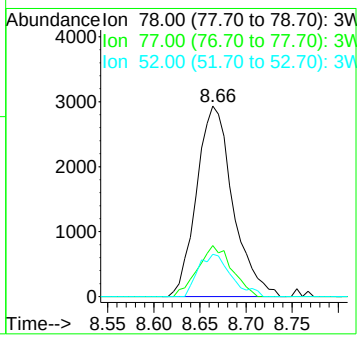


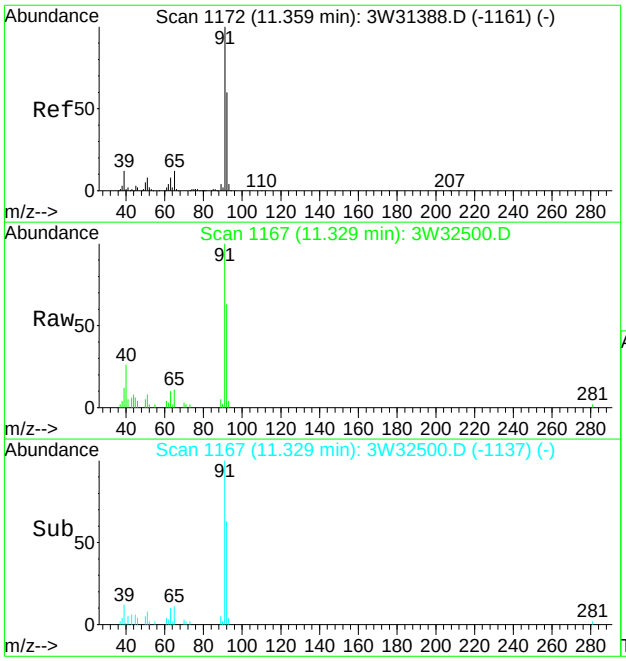


#50
BENZENE
Concen: 0.20 PPBV
RT: 8.66 min Scan# 729
Delta R.T. -0.03 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 78 Resp: 8037

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.3	43.3
52	20.1	0.0	36.4

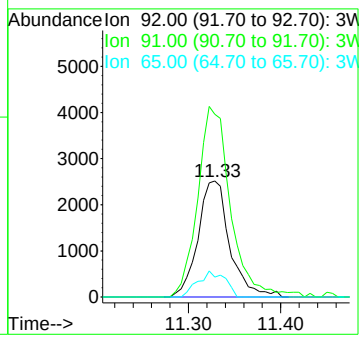


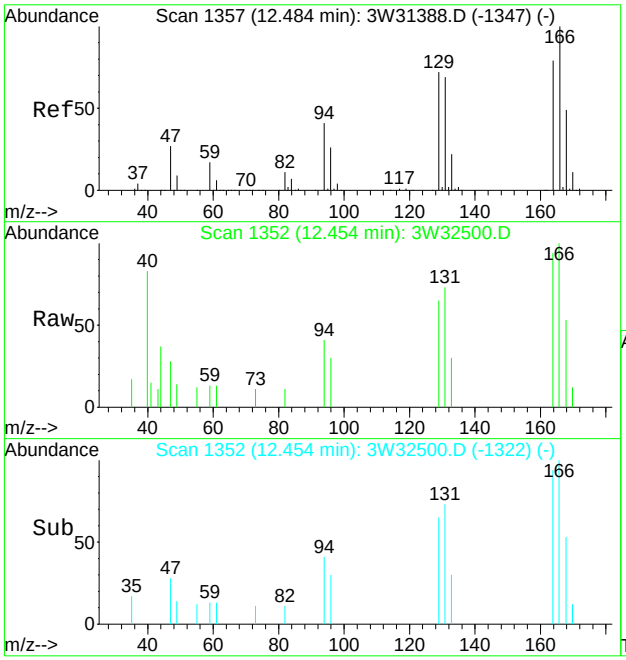


#65
TOLUENE
Concen: 0.24 PPBV
RT: 11.33 min Scan# 1167
Delta R.T. -0.02 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion: 92 Resp: 6005

Ion	Ratio	Lower	Upper
92	100		
91	170.3	147.5	187.5
65	19.1	2.2	42.2

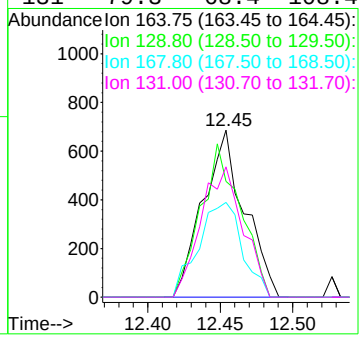




#71
TETRACHLOROETHYLENE
Concen: 0.08 PPBV
RT: 12.45 min Scan# 1352
Delta R.T. -0.02 min
Lab File: 3W32500.D
Acq: 1 Mar 2013 10:10 pm

Tgt Ion:164 Resp: 1365

Ion	Ratio	Lower	Upper
164	100		
129	88.3	71.5	111.5
168	60.1	42.5	82.5
131	79.3	68.4	108.4



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32185.D Vial: 2
Acq On : 6 Feb 2013 11:05 pm Operator: yunxiac
Sample : SCC(A325) Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:01:20 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

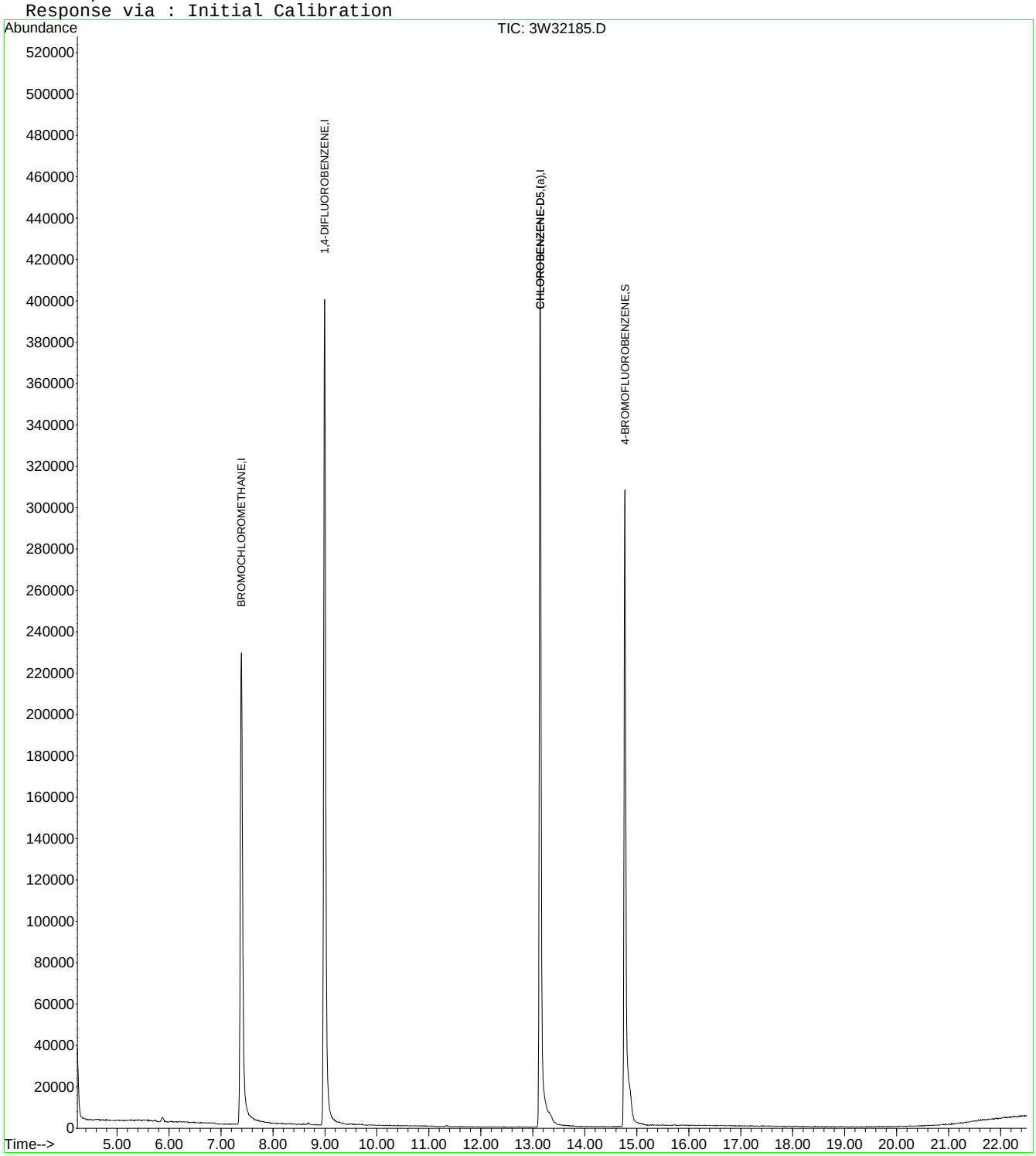
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.39	128	109108	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	8.99	114	508953	10.00	PPBV	-0.02
68) CHLOROBENZENE-D5	13.14	82	204282	10.00	PPBV	-0.01
105) CHLOROBENZENE-D5 (a)	13.14	82	205851	10.00	PPBV	-0.01
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.77	95	165077	8.13	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 81.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32185.D M3W1230.M Thu Feb 07 09:59:37 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32185.D Vial: 2
Acq On : 6 Feb 2013 11:05 pm Operator: yunxiac
Sample : SCC(A325) Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:46 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

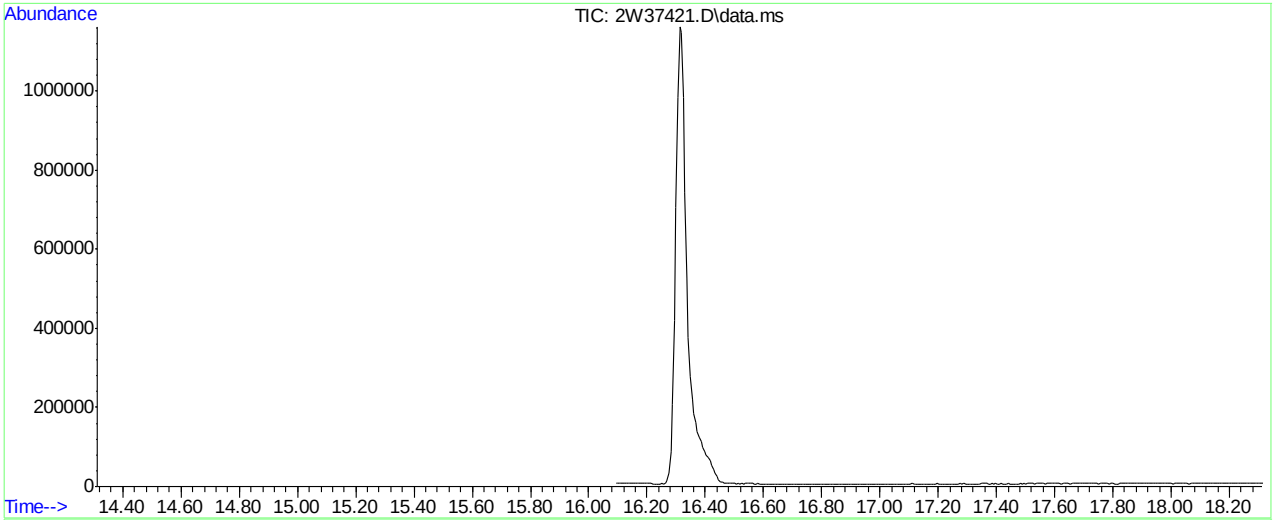


ACCUTEST LABORATORIES JB29729

BFB

Data File : C:\msdchem\1\DATA\v2w\v2w1568\2W37421.D Vial: 5
Acq On : 20 Feb 2013 3:29 pm Operator: YOUMINH
Sample : BFB Inst : MS2W
Misc : MS42049,V2W1569,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W1568.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 36, 37, 38; Background Corrected with Scan 25

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	43715	PASS
75	95	30	66	49.8	115472	PASS
95	95	100	100	100.0	232021	PASS
96	95	5	9	6.7	15482	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	77.9	180651	PASS
175	174	4	9	7.6	13720	PASS
176	174	93	101	96.9	174997	PASS
177	176	5	9	6.6	11539	PASS

2W37421.D M2W1568.M Thu Feb 21 17:12:58 2013 VOA-CLN-02

Average of 16.306 to 16.318 min.: 2W37421.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1991	49.10	9398	63.10	7752	75.10	115472
37.10	10938	50.10	43715	64.05	680	76.10	10165
38.10	9616	51.10	13697	65.10	34	77.00	1334
39.05	3675	52.10	572	67.05	634	78.00	894
40.00	216	55.05	661	68.05	22859	79.00	6315
43.05	45	56.10	3468	69.10	23072	80.00	1863
44.05	1216	57.10	6081	70.05	1777	81.00	6358
45.10	1883	58.10	269	71.10	33	82.00	1403
46.05	152	60.05	2082	72.00	1220	83.05	144
47.10	2807	61.10	10518	73.10	9872	86.05	160
48.05	1282	62.10	10465	74.10	37909	87.00	9450

Average of 16.306 to 16.318 min.: 2W37421.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.00	8775	105.95	850	123.90	129	141.90	245
91.00	764	106.90	218	125.90	49	142.95	1873
92.05	6113	109.95	154	127.95	721	143.90	38
93.05	9004	111.00	185	128.90	349	144.95	184
94.10	25589	111.95	123	129.90	783	145.90	296
95.10	232021	112.95	166	130.95	340	146.95	80
96.10	15482	114.90	256	133.00	17	147.95	528
97.05	444	116.00	725	134.95	381	148.90	164
103.00	127	117.00	1324	136.95	380	149.90	231
103.95	903	118.00	809	140.05	142	151.90	54
104.95	296	119.00	975	140.95	1853	153.00	104

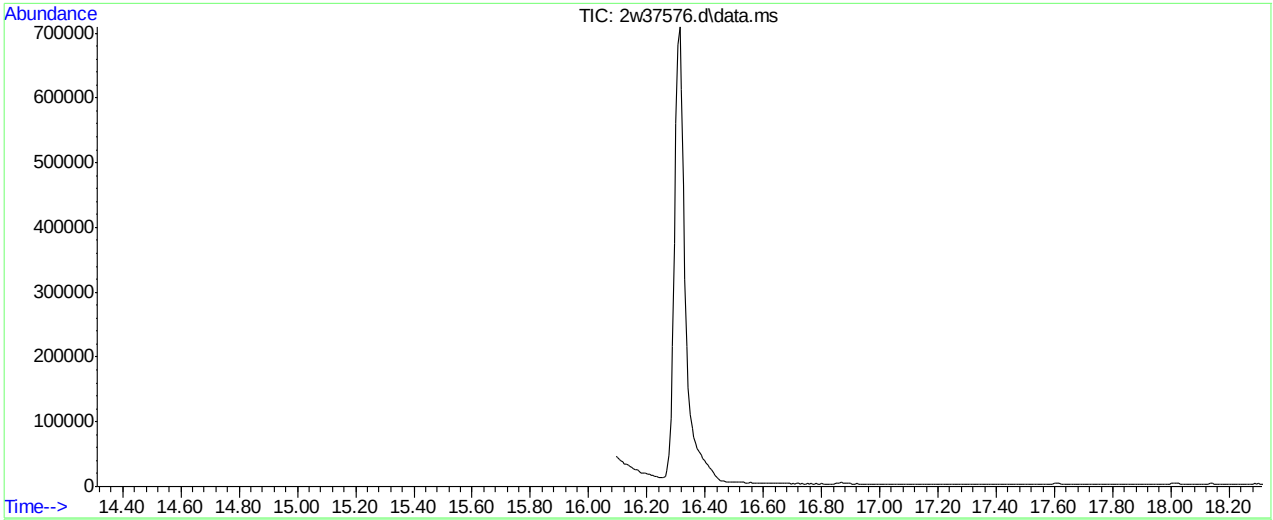
Average of 16.306 to 16.318 min.: 2W37421.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	136	192.90	34				
154.90	512	281.05	1				
156.95	361						
158.95	222						
160.95	242						
172.05	129						
174.00	180651						
175.00	13720						
176.00	174997						
177.00	11539						
177.95	337						

BFB

Data File : C:\msdchem\1\DATA\v2w\2w37576.d Vial: 5
Acq On : 28 Feb 2013 8:56 am Operator: YOUMINH
Sample : bfb Inst : MS2W
Misc : MS43676,V2W1574,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W1568.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 36, 37, 38; Background Corrected with Scan 25

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.3	26571	PASS
75	95	30	66	51.1	70281	PASS
95	95	100	100	100.0	137480	PASS
96	95	5	9	6.6	9042	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.6	105368	PASS
175	174	4	9	8.0	8399	PASS
176	174	93	101	97.5	102739	PASS
177	176	5	9	6.4	6569	PASS

2w37576.d M2W1568.M Fri Mar 01 10:17:55 2013 VOA-CLN-02

Average of 16.306 to 16.319 min.: 2w37576.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1167	49.10	5681	63.10	4968	75.05	70281
37.10	6563	50.10	26571	64.05	468	76.10	6081
38.10	5604	51.10	7886	65.05	201	77.00	824
39.10	2091	52.05	452	67.05	447	78.00	536
41.05	4	55.05	330	68.05	13563	79.00	4133
43.05	2	56.05	2046	69.10	14034	80.00	1452
44.05	471	57.10	3899	70.10	1114	81.00	4337
45.05	915	58.00	193	71.20	40	82.00	1052
46.15	138	60.05	1330	72.05	809	83.00	142
47.10	1795	61.05	6516	73.10	6056	86.00	196
48.00	902	62.10	6303	74.10	23084	87.00	6325

Average of 16.306 to 16.319 min.: 2w37576.d\data.ms
bfb
Modified:subtracted

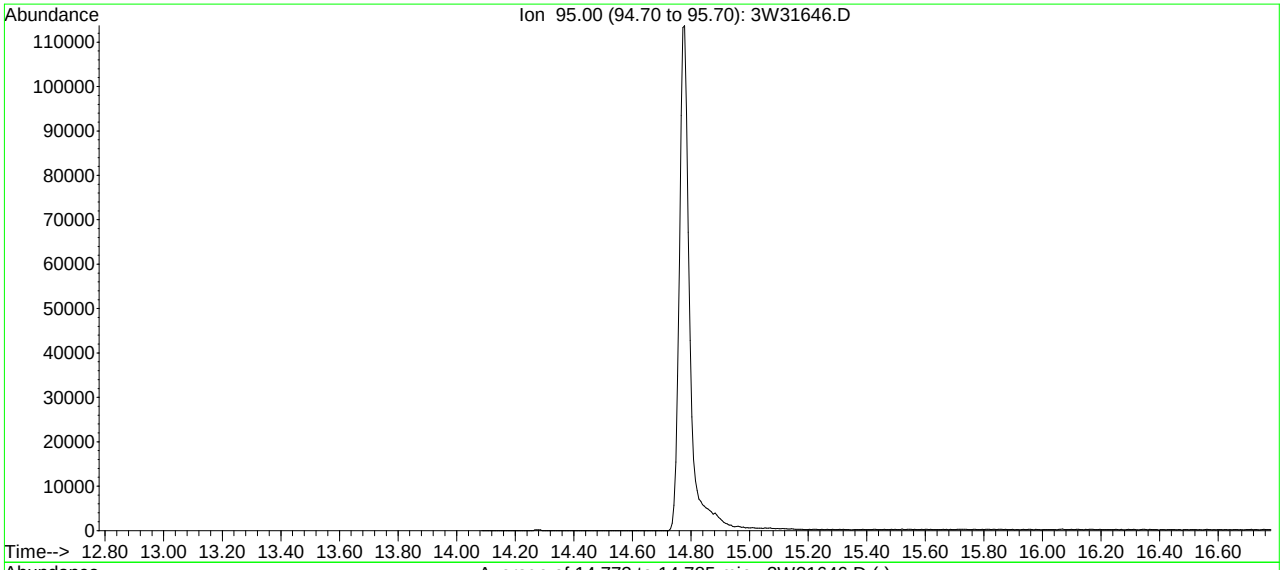
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.00	5939	105.95	621	118.00	479	140.95	1175
91.00	495	106.95	151	119.00	619	142.00	216
92.00	3797	109.95	130	124.00	33	143.00	1279
93.05	5716	110.90	136	127.95	446	143.90	38
94.10	16256	112.00	37	128.95	215	144.95	163
95.10	137480	112.90	96	129.95	489	145.80	53
96.05	9042	113.10	42	130.85	205	145.95	114
97.05	330	114.10	46	134.10	37	146.95	99
103.00	92	115.00	87	134.95	308	147.95	311
103.95	584	115.95	466	136.90	228	148.95	148
104.95	240	117.00	801	140.05	91	149.85	144

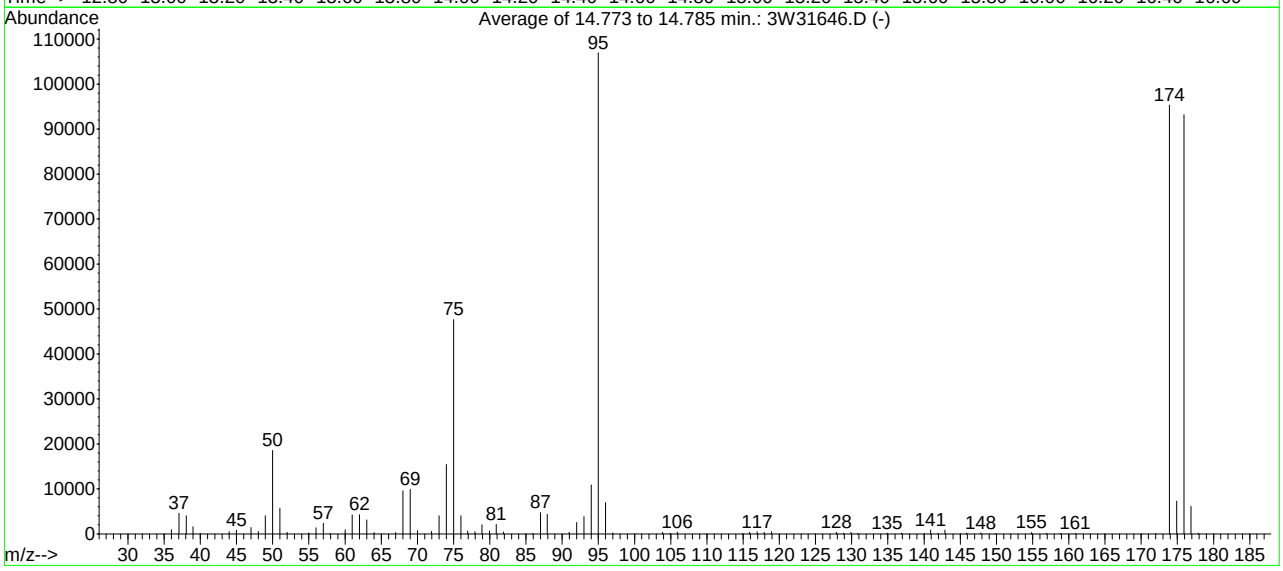
Average of 16.306 to 16.319 min.: 2w37576.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	48	175.00	8399				
153.90	38	176.00	102739				
154.95	342	177.00	6569				
156.00	40	178.00	202				
157.00	273						
158.00	34						
158.95	145						
160.95	207						
162.90	36						
172.10	288						
174.00	105368						

BFB

Data File : C:\MSDCHEM\1\DATA\3W31646.D Vial: 19
Acq On : 10 Jan 2013 6:34 pm Operator: yunxiac
Sample : BFB Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um





AutoFind: Scans 114, 115, 116; Background Corrected with Scan 104

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.3	18543	PASS
75	95	30	66	44.5	47640	PASS
95	95	100	100	100.0	106938	PASS
96	95	5	9	6.5	6923	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.2	95336	PASS
175	174	4	9	7.6	7257	PASS
176	174	93	101	97.8	93208	PASS
177	176	5	9	6.6	6140	PASS

3W31646.D M3W1230.M Fri Jan 11 14:22:47 2013 MS3W

Average of 14.773 to 14.785 min.: 3W31646.D
BFB
Modified:subtracted

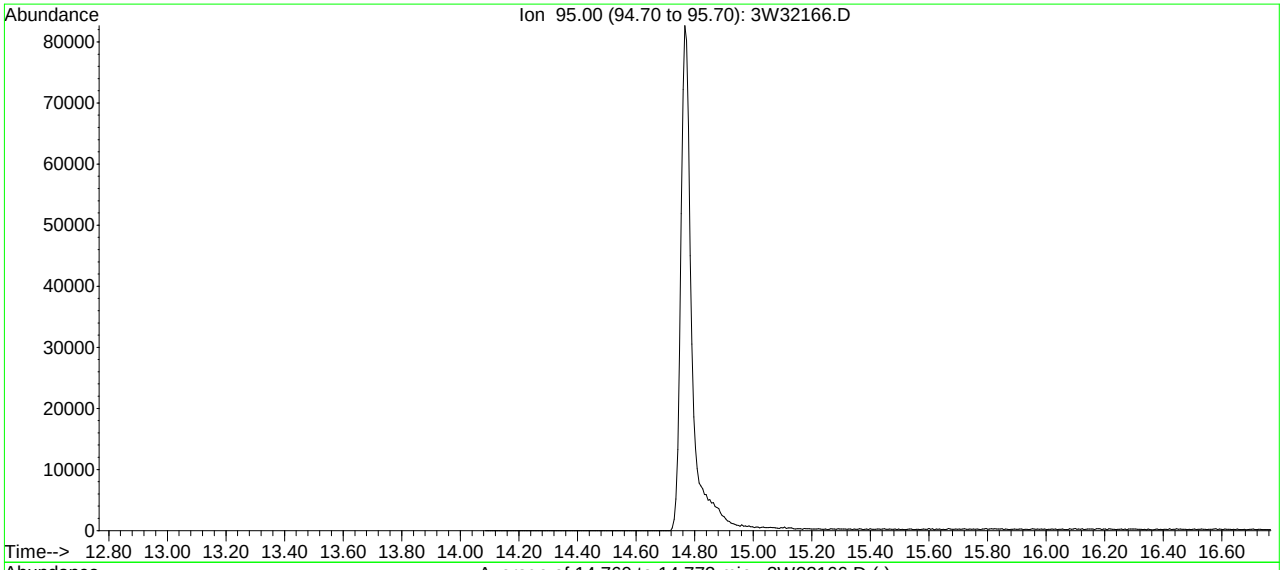
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	886	51.00	5721	67.00	258	78.90	2025
37.05	4557	52.00	321	68.00	9578	79.95	663
38.05	4002	55.00	247	69.00	9871	80.90	2081
39.00	1565	56.00	1352	70.00	732	81.90	416
40.00	77	57.00	2358	71.95	504	85.95	90
44.00	471	57.90	34	73.00	4032	87.00	4726
45.00	811	60.00	911	74.00	15449	87.95	4349
47.00	1426	61.00	4206	75.00	47640	90.95	345
48.00	550	62.00	4284	76.00	4012	92.00	2506
49.00	4037	63.00	3056	76.95	618	93.00	3853
50.00	18543	64.00	287	77.95	462	94.00	10892

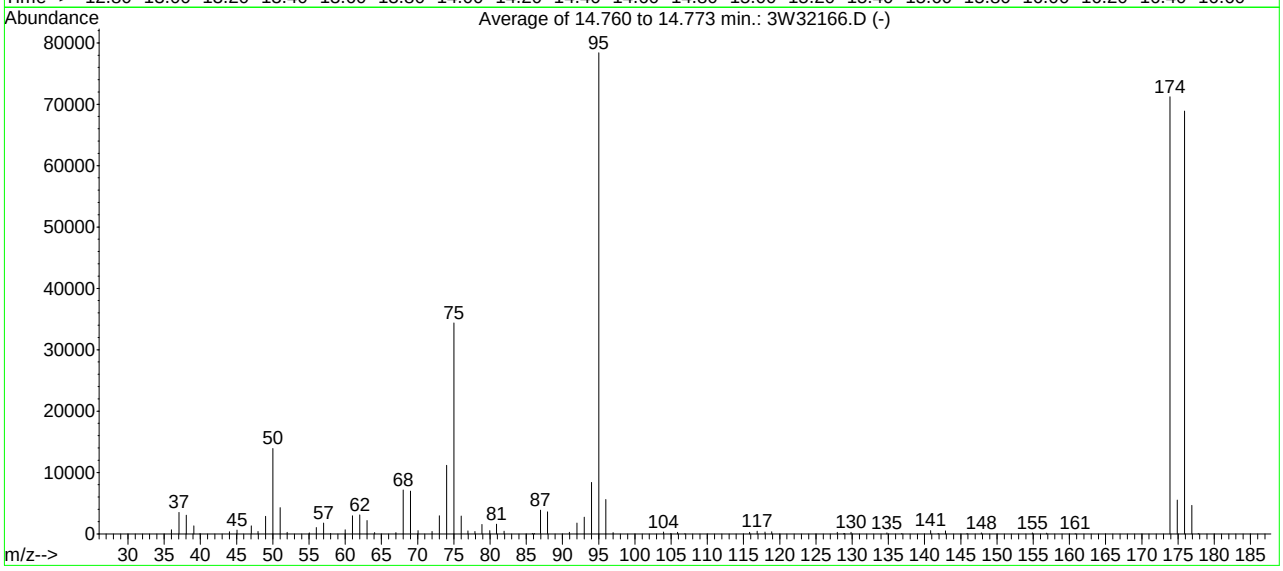
Average of 14.773 to 14.785 min.: 3W31646.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	106938	127.90	346	147.85	228	177.90	167
96.00	6923	128.90	151	149.80	35		
97.00	244	129.90	331	154.85	285		
103.85	352	130.85	127	156.90	152		
104.90	97	134.90	146	158.85	112		
105.90	389	136.90	159	160.90	110		
114.90	35	140.00	34	172.00	36		
115.90	329	140.90	837	173.90	95336		
116.95	476	141.90	80	174.90	7257		
117.90	335	142.90	825	175.90	93208		
118.90	472	145.85	139	176.90	6140		

BFB

```
Data File : C:\MSDCHEM\1\DATA\3W32166.D                Vial: 5
Acq On    :  6 Feb 2013   8:57 am                  Operator: yunxiac
Sample    : BFB                                    Inst    : MS3W
Misc      : MS42049,V3W1248,,,,,1                  Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title     : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
```





AutoFind: Scans 112, 113, 114; Background Corrected with Scan 103

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	13927	PASS
75	95	30	66	43.9	34381	PASS
95	95	100	100	100.0	78373	PASS
96	95	5	9	7.2	5614	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.9	71208	PASS
175	174	4	9	7.7	5508	PASS
176	174	93	101	96.8	68901	PASS
177	176	5	9	6.7	4635	PASS

3W32166.D M3W1230.M Thu Feb 07 10:00:26 2013 MS3W

Average of 14.760 to 14.773 min.: 3W32166.D
BFB
Modified:subtracted

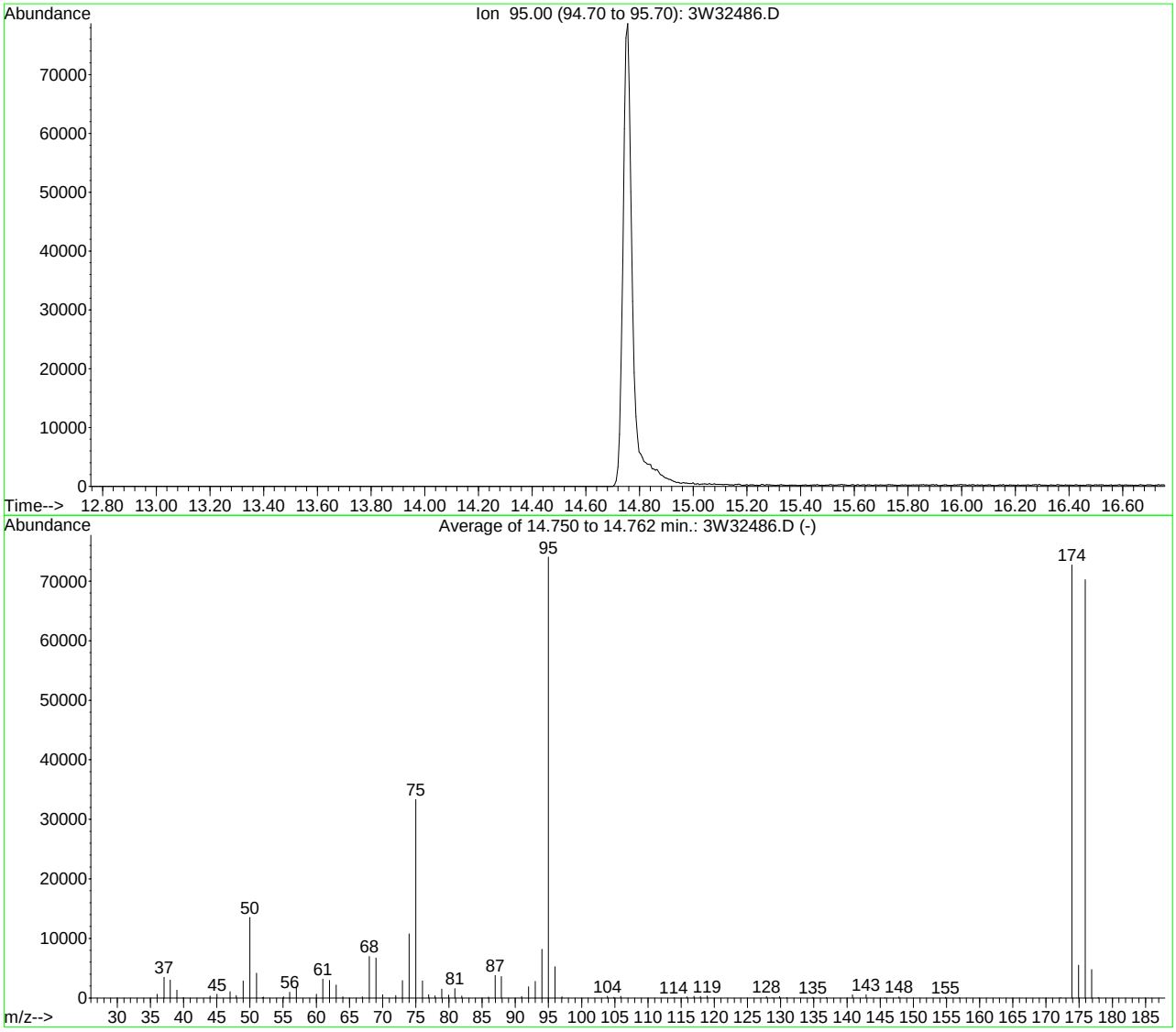
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	675	51.00	4267	67.00	191	78.90	1522
37.05	3508	52.00	249	68.00	7157	79.95	527
38.05	3056	55.05	169	69.00	6985	80.90	1583
39.10	1313	56.00	1029	70.05	548	81.95	450
39.95	23	57.00	1750	72.00	368	85.85	85
44.00	331	58.00	73	73.00	2936	86.10	51
45.05	635	60.00	685	74.00	11176	86.95	3879
47.05	1285	61.00	2931	75.00	34381	87.95	3591
47.95	402	62.00	3081	76.00	2886	90.95	274
49.00	2859	63.00	2167	76.95	475	92.00	1761
50.00	13927	64.05	195	77.90	381	93.00	2735

Average of 14.760 to 14.773 min.: 3W32166.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	8394	118.90	357	147.85	167		
95.00	78373	127.95	237	154.90	176		
96.00	5614	128.80	45	156.85	135		
97.00	188	128.95	80	160.80	38		
103.95	284	129.85	270	173.90	71208		
104.95	71	134.80	141	174.90	5508		
105.90	272	136.85	86	175.90	68901		
106.90	44	140.85	523	176.90	4635		
115.85	235	141.90	72	177.80	93		
116.90	422	142.90	498				
117.95	276	145.85	91				

BFB

```
Data File : C:\MSDCHEM\1\DATA\3W32486.D                Vial: 5
Acq On    :  1 Mar 2013   9:36 am                  Operator: yunxiac
Sample    : BFB                                    Inst    : MS3W
Misc      : MS43510,V3W1260,,,,,1                  Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title     : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
```



AutoFind: Scans 439, 440, 441; Background Corrected with Scan 429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	13526	PASS
75	95	30	66	45.0	33317	PASS
95	95	100	100	100.0	74042	PASS
96	95	5	9	7.1	5243	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.2	72717	PASS
175	174	4	9	7.6	5505	PASS
176	174	93	101	96.6	70269	PASS
177	176	5	9	6.8	4784	PASS

3W32486.D M3W1230.M Mon Mar 04 10:23:14 2013 MS3W

Average of 14.750 to 14.762 min.: 3W32486.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	635	51.00	4175	66.95	219	78.90	1497
37.05	3495	51.90	80	68.00	6979	79.95	494
38.00	3020	52.05	141	69.00	6717	80.90	1590
39.00	1325	55.05	188	70.00	545	81.95	316
39.95	76	56.00	994	72.00	402	85.95	139
44.00	333	57.00	1832	73.00	2898	86.95	3775
45.05	637	60.00	617	74.00	10751	87.90	3585
47.00	1068	61.00	3185	75.00	33317	90.95	244
47.95	428	62.00	2960	76.00	2876	92.00	1883
49.00	2891	63.00	2183	76.95	549	93.00	2782
50.00	13526	64.00	198	77.90	381	94.00	8159

Average of 14.750 to 14.762 min.: 3W32486.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	74042	127.85	246	156.90	36		
96.00	5243	128.80	37	172.20	65		
97.05	188	129.85	243	173.90	72717		
103.90	298	130.90	84	174.90	5505		
104.85	124	134.85	101	175.90	70269		
105.90	279	136.90	80	176.90	4784		
113.90	40	140.85	548	177.90	99		
115.85	198	142.90	560				
116.95	296	145.75	71				
117.90	234	147.85	189				
118.90	346	154.85	124				

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37422.D
Acq On : 20 Feb 2013 3:56 pm
Operator : YOUMINH
Sample : icc1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:52:30 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:05 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	288328	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	1421143	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.677	82	765219	10.00	PPBV		0.00
104) CHLOROBENZENE-D5(A)	14.677	82	765219	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	875806	10.00	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.00%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	1206361	10.00	PPBV		100
4) FREON 152A	4.454	65	350113	10.03	PPBV		100
5) CHLORODIFLUOROMETHANE	4.496	67	125827	10.05	PPBV		98
6) PROPYLENE	4.527	41	345219	10.00	PPBV		100
7) FREON 114	4.820	85	1092664	10.00	PPBV		100
8) CHLOROMETHANE	4.740	52	120915	10.04	PPBV		100
9) VINYL CHLORIDE	4.929	62	426796	10.01	PPBV		100
10) 1,3-BUTADIENE	5.045	54	323979	10.00	PPBV		100
11) n-BUTANE	5.094	43	643416	10.00	PPBV		100
12) BROMOMETHANE	5.289	94	351230	10.00	PPBV		100
13) CHLOROETHANE	5.429	64	218601	10.00	PPBV		100
14) DICHLOROFLUOROMETHANE	5.496	67	856942	10.00	PPBV		100
15) ACROLEIN	5.813	56	94362	10.00	PPBV		100
16) FREON 123	5.832	83	716661	10.00	PPBV	#	100
17) FREON 123A	5.880	117	399338	9.85	PPBV		99
18) TRICHLOROFLUOROMETHANE	6.081	101	962441	10.00	PPBV		100
19) ISOPROPYL ALCOHOL	6.106	45	493286	10.00	PPBV		100
20) ACETONE	5.923	58	111457	10.02	PPBV		100
21) PENTANE	6.368	42	355440	10.00	PPBV		100
22) ACRYLONITRILE	6.313	53	168286	10.04	PPBV		100
23) TVHC as EQUIV PENTANE	5.708	TIC	1782296m	10.08	PPBV		
24) IODOMETHANE	6.575	142	782705	10.00	PPBV		100
25) 1,1-DICHLOROETHYLENE	6.624	96	301235	10.00	PPBV		100
26) CARBON DISULFIDE	7.020	76	1034833	10.00	PPBV		100
27) ETHANOL	5.502	45	105307	10.00	PPBV		100
28) BROMOETHENE	5.734	106	338431	10.00	PPBV		100
29) ACETONITRILE	5.704	41	162914	10.00	PPBV		100
30) METHYLENE CHLORIDE	6.716	84	273466	10.00	PPBV		100
31) 3-CHLOROPROPENE	6.819	76	140134	10.00	PPBV		100
32) FREON 113	6.935	151	498184	9.99	PPBV		100
33) TRANS-1,2-DICHLOROETHY...	7.539	96	369410	9.99	PPBV		100
34) TERTIARY BUTYL ALCOHOL	6.624	59	709901	10.03	PPBV		100
35) METHYL TERTIARY BUTYL ...	7.752	73	764122	10.00	PPBV		100
36) TETRAHYDROFURAN	9.099	72	127212	10.00	PPBV		100
37) HEXANE	8.636	57	654387	10.00	PPBV		100
38) VINYL ACETATE	7.813	86	61551	10.00	PPBV		100
39) 1,1-DICHLOROETHANE	7.715	63	572450	10.07	PPBV		100
40) METHYL ETHYL KETONE	8.051	72	123787	10.00	PPBV		100
41) cis-1,2-DICHLOROETHYLENE	8.459	96	333243	10.00	PPBV		100

Data Path : C:\msdchem\1\DATA\
Data File : 2W37422.D
Acq On : 20 Feb 2013 3:56 pm
Operator : YOUMINH
Sample : icc1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:52:30 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:05 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.624	61	87577	10.00	PPBV		100
43) METHYL ACRYLATE	8.630	55	524384	10.00	PPBV		100
44) CHLOROFORM	8.727	83	698766	10.00	PPBV		100
45) 2,4-DIMETHYLPENTANE	9.447	57	812137	10.00	PPBV		100
46) 1,1,1-TRICHLOROETHANE	9.648	97	730480	9.99	PPBV		100
47) CARBON TETRACHLORIDE	10.221	117	903877	10.00	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	413800	10.00	PPBV		100
50) BENZENE	10.081	78	928890	10.00	PPBV		100
51) CYCLOHEXANE	10.343	84	564436	10.00	PPBV		100
52) 2,3-DIMETHYLPENTANE	10.538	71	296727	10.00	PPBV		100
53) DIBROMOMETHANE	10.831	174	380011	10.00	PPBV		100
54) TRICHLOROETHYLENE	11.068	95	463829	10.00	PPBV		100
55) 1,2-DICHLOROPROPANE	10.849	63	336400	10.00	PPBV		100
56) ETHYL ACRYLATE	10.794	55	575985	10.00	PPBV		100
57) BROMODICHLOROMETHANE	11.032	83	772892	10.00	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	1816067	10.00	PPBV		100
59) 1,4-DIOXANE	11.062	88	176646	10.03	PPBV		100
60) METHYL METHACRYLATE	11.221	69	278829	10.00	PPBV		100
61) HEPTANE	11.324	43	690384	10.04	PPBV		100
62) TVHC as EQUIV HEPTANE	11.324	TIC	3451387	10.00	PPBV		100
63) METHYL ISOBUTYL KETONE	11.904	58	232391	10.00	PPBV		100
64) cis-1,3-DICHLOROPROPENE	11.891	75	491833	10.02	PPBV		100
65) TOLUENE	12.867	92	611941	10.00	PPBV		100
66) trans-1,3-DICHLOROPROPENE	12.397	75	448393	10.00	PPBV		100
67) 1,1,2-TRICHLOROETHANE	12.580	83	303232	10.00	PPBV		100
69) 2-HEXANONE	13.092	58	286582	10.00	PPBV		100
70) ETHYL METHACRYLATE	13.086	69	477432	10.00	PPBV		100
71) TETRACHLOROETHYLENE	14.019	164	481378	10.00	PPBV		100
72) DIBROMOCHLOROMETHANE	13.300	129	651986	9.99	PPBV		100
73) 1,2-DIBROMOETHANE	13.550	107	485653	9.99	PPBV		100
74) OCTANE	13.824	43	807553	10.00	PPBV		100
75) 1,1,1,2-TETRACHLOROETHANE	14.702	131	445455	10.00	PPBV		100
76) CHLOROBENZENE	14.720	112	749052	10.00	PPBV		100
77) ETHYLBENZENE	15.104	91	1259833	10.00	PPBV		100
78) m,p-XYLENE	15.299	106	949885	20.00	PPBV		100
79) o-XYLENE	15.811	106	463315	10.00	PPBV		100
80) STYRENE	15.689	104	650214	10.00	PPBV		100
81) NONANE	16.019	43	717515	10.00	PPBV		100
82) BROMOFORM	15.403	173	534225	10.00	PPBV		100
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	566333	10.00	PPBV		100
85) ISOPROPYLBENZENE	16.451	105	1340280	10.00	PPBV		100
86) BROMOBENZENE	16.567	156	351757	10.00	PPBV		100
87) 2-CHLOROTOLUENE	16.976	126	295733	10.00	PPBV	#	100
88) n-PROPYLBENZENE	17.000	120	327952	10.00	PPBV		100
89) 4-ETHYLTOLUENE	17.159	105	1101510	10.00	PPBV		100
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	997657	10.00	PPBV		100
91) ALPHA-METHYLSTYRENE	17.409	118	411993	10.00	PPBV		100
92) TERT-BUTYLBENZENE	17.677	134	234935	10.00	PPBV		100
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	913971	10.00	PPBV		100
94) m-DICHLOROBENZENE	17.854	146	460909	10.00	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37422.D
Acq On : 20 Feb 2013 3:56 pm
Operator : YOUMINH
Sample : icc1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:52:30 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:05 2013
Response via : Initial Calibration

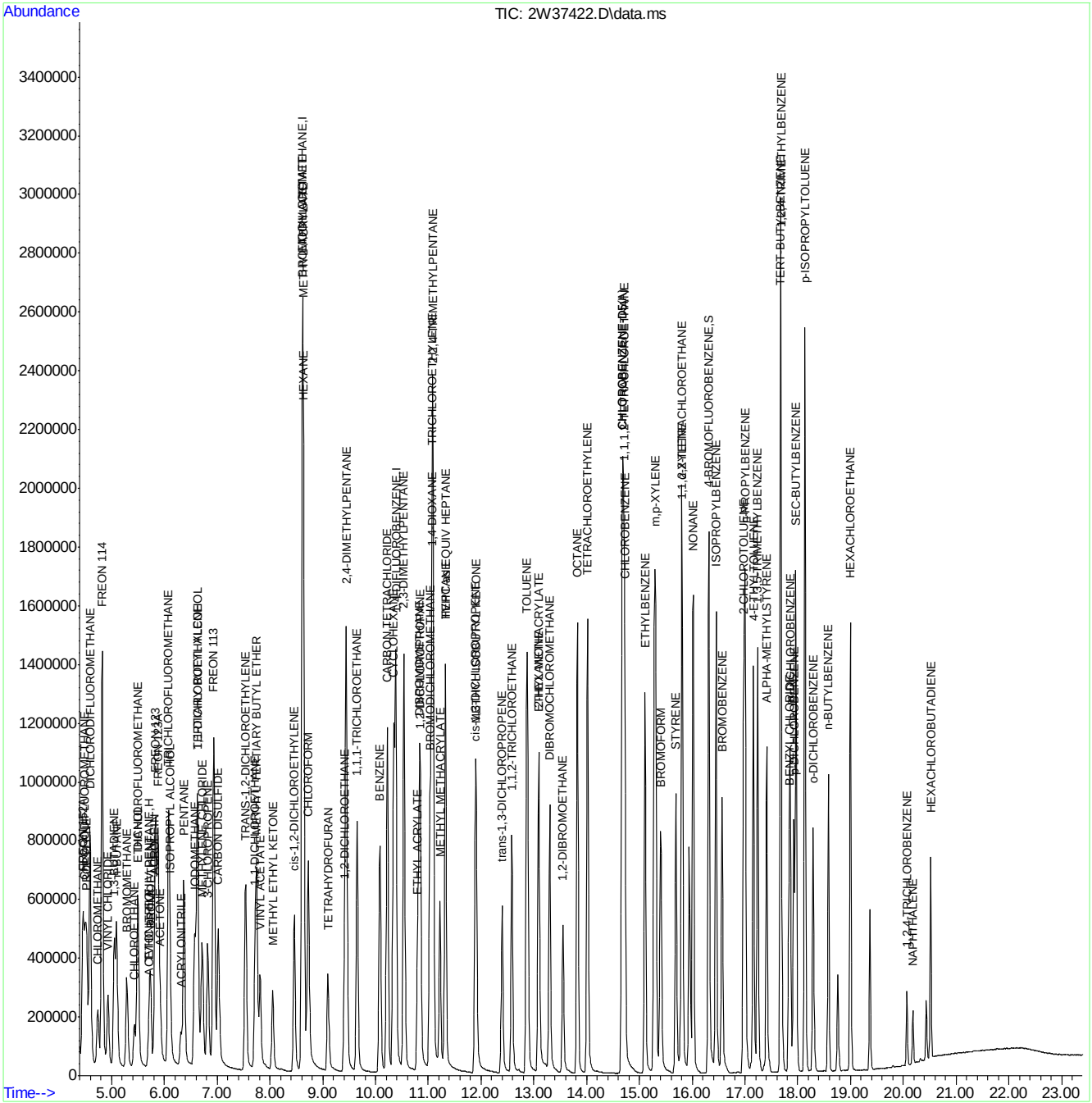
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.835	91	487432	10.00	PPBV	100
96)	p-DICHLOROBENZENE	17.927	146	439582	10.00	PPBV	100
97)	SEC-BUTYLBENZENE	17.963	134	265553	10.00	PPBV	100
98)	p-ISOPROPYLTOLUENE	18.134	134	252037	10.00	PPBV	100
99)	o-DICHLOROBENZENE	18.293	146	402551	10.00	PPBV	100
100)	n-BUTYLBENZENE	18.579	91	628795	10.00	PPBV	100
101)	HEXACHLOROETHANE	19.000	201	298837	10.00	PPBV	100
102)	HEXACHLOROBUTADIENE	20.518	225	130824	10.00	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	20.067	180	83014	9.99	PPBV	100
105)	NAPHTHALENE	20.182	128	152878	10.00	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37422.D
Acq On : 20 Feb 2013 3:56 pm
Operator : YOUMINH
Sample : icc1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

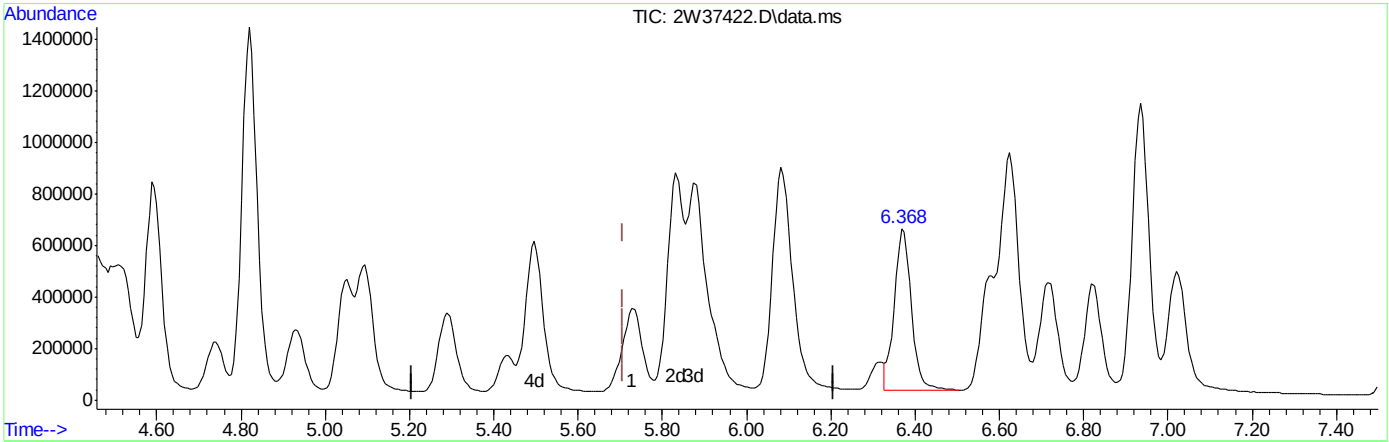
Quant Time: Feb 21 08:52:30 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:05 2013
Response via : Initial Calibration

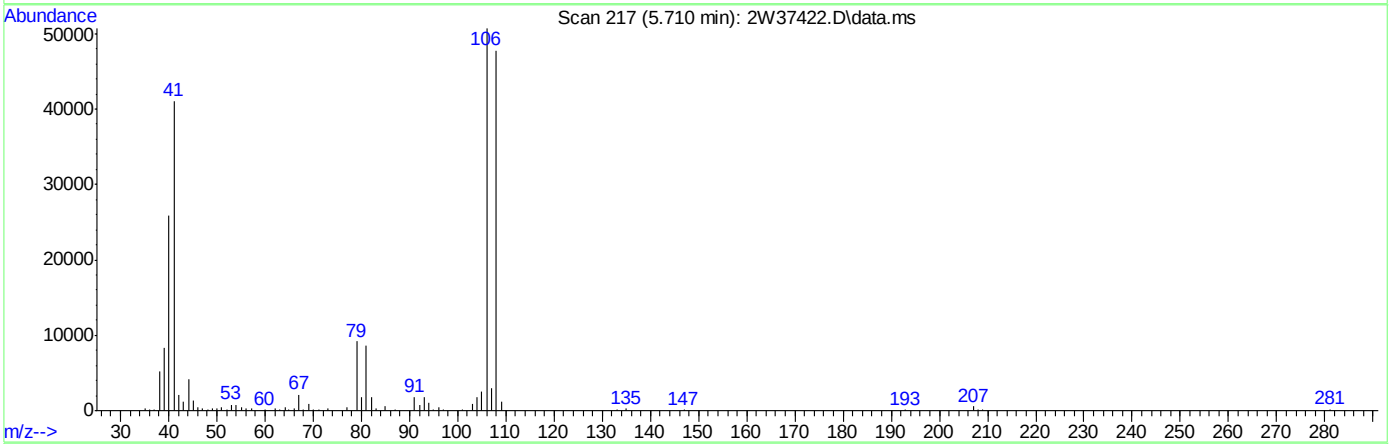


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37422.D
Acq On : 20 Feb 2013 3:56 pm
Operator : YOUMINH
Sample : icc1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:52:30 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:05 2013
Response via : Initial Calibration





TIC: 2W37422.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 10.08PPBV m

response 1782296

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	1.10#
0.00	1.00	0.98#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37423.D
Acq On : 20 Feb 2013 4:34 pm
Operator : YOUMINH
Sample : ic1568-5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 16:31:44 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:48 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	276980	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	1407879	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	727299	10.00	PPBV		0.00
104) CHLOROBENZENE-D5(A)	14.671	82	727299	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	800869	9.62	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.20%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	581650	5.02	PPBV		100
4) FREON 152A	4.454	65	125003	3.72	PPBV		100
5) CHLORODIFLUOROMETHANE	4.497	67	61355	5.08	PPBV		98
6) PROPYLENE	4.527	41	163028	4.92	PPBV		99
7) FREON 114	4.814	85	508880	4.85	PPBV		99
8) CHLOROMETHANE	4.734	52	58091	5.00	PPBV		96
9) VINYL CHLORIDE	4.929	62	206209	5.03	PPBV		99
10) 1,3-BUTADIENE	5.045	54	155966	5.01	PPBV		99
11) n-BUTANE	5.094	43	288036	4.66	PPBV		99
12) BROMOMETHANE	5.289	94	173289	5.14	PPBV		99
13) CHLOROETHANE	5.429	64	106520	5.07	PPBV		98
14) DICHLOROFLUOROMETHANE	5.490	67	423098	5.14	PPBV		100
15) ACROLEIN	5.813	56	43034	4.75	PPBV		95
16) FREON 123	5.832	83	346923	5.04	PPBV	#	100
17) FREON 123A	5.880	117	190482	4.97	PPBV		97
18) TRICHLOROFLUOROMETHANE	6.076	101	479704	5.19	PPBV		99
19) ISOPROPYL ALCOHOL	6.106	45	302262	6.38	PPBV		99
20) ACETONE	5.917	58	59930	5.60	PPBV		93
21) PENTANE	6.368	42	175297	5.13	PPBV		100
22) ACRYLONITRILE	6.313	53	82672	5.11	PPBV		99
23) TVHC as EQUIV PENTANE	5.708	TIC	869478m	5.08	PPBV		
24) IODOMETHANE	6.575	142	388713	5.17	PPBV		99
25) 1,1-DICHLOROETHYLENE	6.624	96	148576	5.13	PPBV		99
26) CARBON DISULFIDE	7.021	76	520489	5.24	PPBV		100
27) ETHANOL	5.509	45	57809	5.71	PPBV		97
28) BROMOETHENE	5.728	106	167688	5.16	PPBV		99
29) ACETONITRILE	5.704	41	81870	5.23	PPBV		98
30) METHYLENE CHLORIDE	6.716	84	128167	4.88	PPBV		99
31) 3-CHLOROPROPENE	6.819	76	66597	4.95	PPBV		98
32) FREON 113	6.935	151	244942	5.12	PPBV		100
33) TRANS-1,2-DICHLOROETHY...	7.539	96	178672	5.03	PPBV		100
34) TERTIARY BUTYL ALCOHOL	6.624	59	424321	6.22	PPBV		98
35) METHYL TERTIARY BUTYL ...	7.752	73	426105	5.80	PPBV		99
36) TETRAHYDROFURAN	9.099	72	71938	5.89	PPBV		98
37) HEXANE	8.630	57	312639	4.97	PPBV		96
38) VINYL ACETATE	7.813	86	28604	4.84	PPBV	#	94
39) 1,1-DICHLOROETHANE	7.715	63	277366	5.04	PPBV		100
40) METHYL ETHYL KETONE	8.051	72	72408	6.09	PPBV		96
41) cis-1,2-DICHLOROETHYLENE	8.459	96	161671	5.05	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37423.D
Acq On : 20 Feb 2013 4:34 pm
Operator : YOUMINH
Sample : ic1568-5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 16:31:44 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:48 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.624	61	44669	5.31	PPBV	#	84
43) METHYL ACRYLATE	8.624	55	264132	5.24	PPBV		99
44) CHLOROFORM	8.727	83	336932	5.02	PPBV		99
45) 2,4-DIMETHYLPENTANE	9.441	57	382787	4.91	PPBV		99
46) 1,1,1-TRICHLOROETHANE	9.648	97	356595	5.08	PPBV		100
47) CARBON TETRACHLORIDE	10.221	117	440276	5.07	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	200468	5.04	PPBV		99
50) BENZENE	10.081	78	452817	4.92	PPBV		100
51) CYCLOHEXANE	10.343	84	274092	4.90	PPBV		94
52) 2,3-DIMETHYLPENTANE	10.538	71	139431	4.74	PPBV		99
53) DIBROMOMETHANE	10.825	174	182057	4.84	PPBV		99
54) TRICHLOROETHYLENE	11.069	95	220392	4.80	PPBV		100
55) 1,2-DICHLOROPROPANE	10.849	63	165096	4.95	PPBV		99
56) ETHYL ACRYLATE	10.794	55	323511	5.67	PPBV		99
57) BROMODICHLOROMETHANE	11.032	83	369757	4.83	PPBV		99
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	879377	4.89	PPBV		100
59) 1,4-DIOXANE	11.062	88	109355	6.25	PPBV		99
60) METHYL METHACRYLATE	11.221	69	149292	5.40	PPBV		100
61) HEPTANE	11.318	43	312280	4.57	PPBV		99
62) TVHC as EQUIV HEPTANE	11.318	TIC	1574668	4.61	PPBV		100
63) METHYL ISOBUTYL KETONE	11.910	58	141350	6.14	PPBV		99
64) cis-1,3-DICHLOROPROPENE	11.892	75	228857	4.70	PPBV		95
65) TOLUENE	12.867	92	289637	4.78	PPBV		100
66) trans-1,3-DICHLOROPROPENE	12.398	75	202457	4.56	PPBV		99
67) 1,1,2-TRICHLOROETHANE	12.580	83	142373	4.74	PPBV		100
69) 2-HEXANONE	13.092	58	185335	6.80	PPBV		99
70) ETHYL METHACRYLATE	13.086	69	275225	6.07	PPBV		99
71) TETRACHLOROETHYLENE	14.019	164	234608	5.13	PPBV		100
72) DIBROMOCHLOROMETHANE	13.300	129	300300	4.85	PPBV		100
73) 1,2-DIBROMOETHANE	13.550	107	228471	4.95	PPBV		100
74) OCTANE	13.824	43	366180	4.77	PPBV		99
75) 1,1,1,2-TETRACHLOROETHANE	14.696	131	212470	5.02	PPBV		99
76) CHLOROBENZENE	14.720	112	356338	5.01	PPBV		99
77) ETHYLBENZENE	15.104	91	594636	4.97	PPBV		100
78) m,p-XYLENE	15.293	106	455700	10.10	PPBV		99
79) o-XYLENE	15.811	106	226438	5.14	PPBV		99
80) STYRENE	15.690	104	305155	4.94	PPBV		100
81) NONANE	16.013	43	332464	4.88	PPBV		99
82) BROMOFORM	15.403	173	252523	4.97	PPBV		100
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	302260	5.62	PPBV		100
85) ISOPROPYLBENZENE	16.452	105	667224	5.24	PPBV		100
86) BROMOBENZENE	16.567	156	170685	5.11	PPBV		100
87) 2-CHLOROTOLUENE	16.976	126	145581	5.18	PPBV	#	99
88) n-PROPYLBENZENE	17.000	120	164098	5.26	PPBV		99
89) 4-ETHYLTOLUENE	17.159	105	556450	5.32	PPBV		100
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	524792	5.53	PPBV		100
91) ALPHA-METHYLSTYRENE	17.409	118	204635	5.23	PPBV		100
92) TERT-BUTYLBENZENE	17.677	134	126040	5.64	PPBV		99
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	481800	5.55	PPBV		98
94) m-DICHLOROBENZENE	17.854	146	228333	5.21	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37423.D
Acq On : 20 Feb 2013 4:34 pm
Operator : YOUMINH
Sample : ic1568-5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 16:31:44 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:48 2013
Response via : Initial Calibration

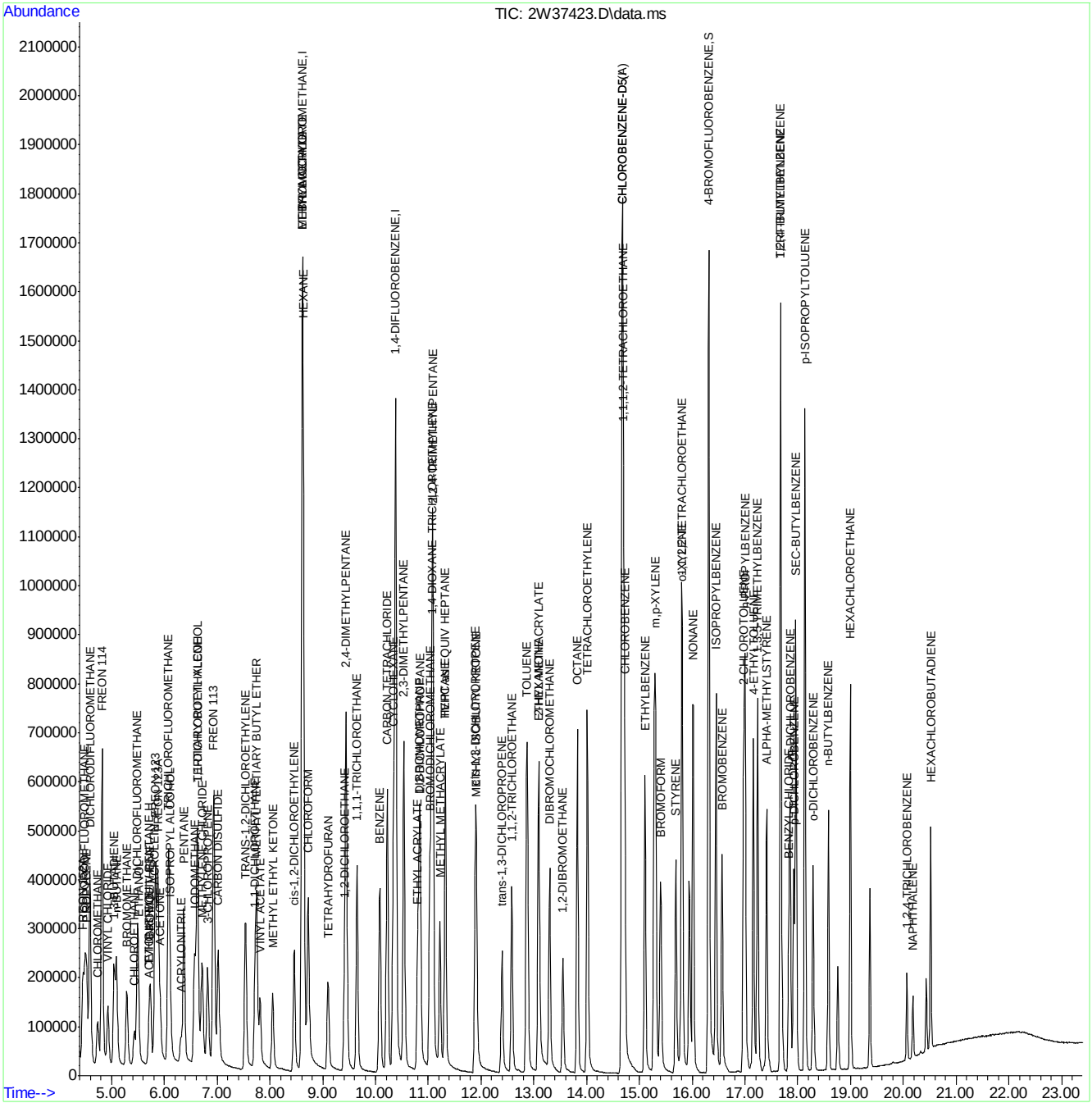
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.829	91	258090	5.57	PPBV	99
96)	p-DICHLOROBENZENE	17.927	146	217999	5.22	PPBV	99
97)	SEC-BUTYLBENZENE	17.964	134	141035	5.59	PPBV	99
98)	p-ISOPROPYLTOLUENE	18.134	134	132452	5.53	PPBV	99
99)	o-DICHLOROBENZENE	18.293	146	209219	5.47	PPBV	100
100)	n-BUTYLBENZENE	18.579	91	333127	5.57	PPBV	100
101)	HEXACHLOROETHANE	19.000	201	153530	5.41	PPBV	100
102)	HEXACHLOROBUTADIENE	20.518	225	87355	7.03	PPBV	99
103)	1,2,4-TRICHLOROBENZENE	20.067	180	58330	7.39	PPBV	99
105)	NAPHTHALENE	20.183	128	108692	7.48	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37423.D
Acq On : 20 Feb 2013 4:34 pm
Operator : YOUMINH
Sample : ic1568-5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

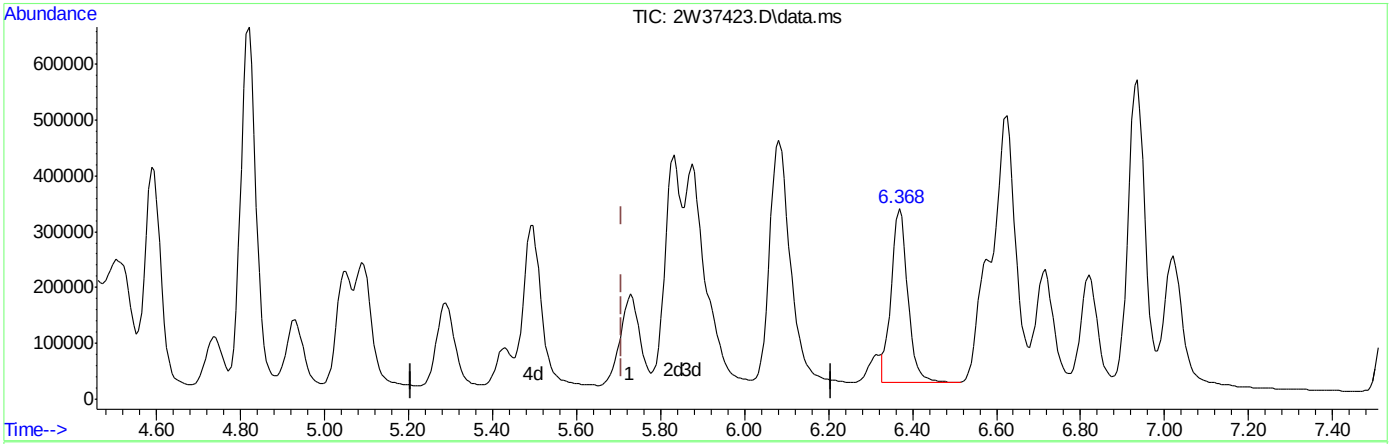
Quant Time: Feb 21 16:31:44 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:48 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37423.D
Acq On : 20 Feb 2013 4:34 pm
Operator : YOUMINH
Sample : ic1568-5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 16:31:44 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:52:48 2013
Response via : Initial Calibration



TIC: 2W37423.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 5.08PPBV m

response 869478

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	1.60#
0.00	1.00	1.40#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37424.D
Acq On : 20 Feb 2013 5:12 pm
Operator : YOUMINH
Sample : ic1568-0.5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:32:40 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:53:20 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	267804	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	1297832	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	611031	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	611031	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	535899	7.81	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 78.10%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	55955	0.50	PPBV		99
4) FREON 152A	4.454	65	18993	0.67	PPBV		99
5) CHLORODIFLUOROMETHANE	4.490	67	5501	0.47	PPBV		92
6) PROPYLENE	4.527	41	13583	0.43	PPBV		97
7) FREON 114	4.814	85	50217	0.50	PPBV		99
8) CHLOROMETHANE	4.734	52	5798	0.52	PPBV	#	84
9) VINYL CHLORIDE	4.929	62	19328	0.49	PPBV		98
10) 1,3-BUTADIENE	5.051	54	13542	0.45	PPBV		98
11) n-BUTANE	5.094	43	29834	0.52	PPBV	#	98
12) BROMOMETHANE	5.289	94	16506	0.50	PPBV		94
13) CHLOROETHANE	5.429	64	10000	0.49	PPBV		98
14) DICHLOROFLUOROMETHANE	5.496	67	39295	0.49	PPBV		99
15) ACROLEIN	5.838	56	4100	0.48	PPBV		89
16) FREON 123	5.832	83	34303	0.51	PPBV	#	98
17) FREON 123A	5.874	117	19004	0.51	PPBV		93
18) TRICHLOROFLUOROMETHANE	6.075	101	44080	0.48	PPBV		97
19) ISOPROPYL ALCOHOL	6.124	45	24414	0.47	PPBV		82
20) ACETONE	5.935	58	6522	0.59	PPBV		92
21) PENTANE	6.368	42	15877	0.47	PPBV		100
22) ACRYLONITRILE	6.332	53	6707	0.42	PPBV	#	74
23) TVHC as EQUIV PENTANE	5.708	TIC	76827m	0.46	PPBV		
24) IODOMETHANE	6.575	142	35930	0.49	PPBV		100
25) 1,1-DICHLOROETHYLENE	6.624	96	13841	0.49	PPBV		97
26) CARBON DISULFIDE	7.020	76	48570	0.49	PPBV		97
27) ETHANOL	5.508	45	5148	0.49	PPBV		78
28) BROMOETHENE	5.734	106	15739	0.49	PPBV		99
29) ACETONITRILE	5.728	41	6010	0.39	PPBV	#	85
30) METHYLENE CHLORIDE	6.716	84	16271	0.65	PPBV		95
31) 3-CHLOROPROPENE	6.825	76	5993	0.46	PPBV		92
32) FREON 113	6.935	151	21818	0.47	PPBV		98
33) TRANS-1,2-DICHLOROETHY...	7.539	96	17350	0.50	PPBV		91
34) TERTIARY BUTYL ALCOHOL	6.642	59	35501	0.48	PPBV		95
35) METHYL TERTIARY BUTYL ...	7.758	73	35699	0.47	PPBV		98
36) TETRAHYDROFURAN	9.118	72	5504	0.43	PPBV	#	87
37) HEXANE	8.636	57	26008	0.43	PPBV		93
38) VINYL ACETATE	7.819	86	2289	0.41	PPBV	#	82
39) 1,1-DICHLOROETHANE	7.715	63	28088	0.53	PPBV		97
40) METHYL ETHYL KETONE	8.063	72	5954	0.47	PPBV		93
41) cis-1,2-DICHLOROETHYLENE	8.459	96	15884	0.51	PPBV		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37424.D
Acq On : 20 Feb 2013 5:12 pm
Operator : YOUMINH
Sample : ic1568-0.5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:32:40 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:53:20 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.630	61	3750	0.45	PPBV	#	83
43) METHYL ACRYLATE	8.636	55	23683	0.47	PPBV	#	93
44) CHLOROFORM	8.727	83	31807	0.49	PPBV		88
45) 2,4-DIMETHYLPENTANE	9.441	57	32350	0.43	PPBV		97
46) 1,1,1-TRICHLOROETHANE	9.648	97	34597	0.51	PPBV		99
47) CARBON TETRACHLORIDE	10.221	117	38529	0.46	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	18835	0.49	PPBV		98
50) BENZENE	10.081	78	43450	0.52	PPBV		100
51) CYCLOHEXANE	10.337	84	26869	0.53	PPBV	#	70
52) 2,3-DIMETHYLPENTANE	10.538	71	11855	0.45	PPBV		95
53) DIBROMOMETHANE	10.825	174	17518	0.51	PPBV		96
54) TRICHLOROETHYLENE	11.074	95	19787	0.48	PPBV		95
55) 1,2-DICHLOROPROPANE	10.843	63	15590	0.51	PPBV		99
56) ETHYL ACRYLATE	10.806	55	24031	0.43	PPBV	#	93
57) BROMODICHLOROMETHANE	11.032	83	34986	0.50	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	78424	0.48	PPBV		98
59) 1,4-DIOXANE	11.081	88	6889	0.38	PPBV	#	1
60) METHYL METHACRYLATE	11.221	69	14700	0.55	PPBV	#	75
61) HEPTANE	11.324	43	26322	0.44	PPBV		98
62) TVHC as EQUIV HEPTANE	11.324	TIC	143031	0.47	PPBV		100
63) METHYL ISOBUTYL KETONE	11.916	58	10220	0.43	PPBV		98
64) cis-1,3-DICHLOROPROPENE	11.891	75	21744	0.50	PPBV		92
65) TOLUENE	12.867	92	28458	0.52	PPBV		99
66) trans-1,3-DICHLOROPROPENE	12.397	75	19706	0.50	PPBV		95
67) 1,1,2-TRICHLOROETHANE	12.580	83	14386	0.53	PPBV		97
69) 2-HEXANONE	13.105	58	12899	0.48	PPBV		93
70) ETHYL METHACRYLATE	13.092	69	19925	0.47	PPBV	#	97
71) TETRACHLOROETHYLENE	14.013	164	24056	0.62	PPBV		97
72) DIBROMOCHLOROMETHANE	13.300	129	29043	0.57	PPBV		99
73) 1,2-DIBROMOETHANE	13.556	107	21101	0.55	PPBV		99
74) OCTANE	13.824	43	33864	0.54	PPBV		97
75) 1,1,1,2-TETRACHLOROETHANE	14.696	131	21056	0.59	PPBV		99
76) CHLOROBENZENE	14.720	112	34769	0.58	PPBV		93
77) ETHYLBENZENE	15.104	91	55182	0.55	PPBV		99
78) m,p-XYLENE	15.299	106	42513	1.12	PPBV		99
79) o-XYLENE	15.805	106	20960	0.56	PPBV		99
80) STYRENE	15.689	104	22478	0.44	PPBV		96
81) NONANE	16.019	43	27132	0.48	PPBV		99
82) BROMOFORM	15.403	173	22807	0.54	PPBV		97
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	23704	0.49	PPBV		97
85) ISOPROPYLBENZENE	16.451	105	59599	0.54	PPBV		99
86) BROMOBENZENE	16.567	156	14916	0.53	PPBV		96
87) 2-CHLOROTOLUENE	16.976	126	12235	0.51	PPBV	#	98
88) n-PROPYLBENZENE	17.000	120	12474	0.46	PPBV		93
89) 4-ETHYLTOLUENE	17.159	105	36996	0.41	PPBV		96
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	37238	0.44	PPBV		98
91) ALPHA-METHYLSTYRENE	17.415	118	12218	0.36	PPBV		98
92) TERT-BUTYLBENZENE	17.677	134	8936	0.45	PPBV		99
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	30228	0.39	PPBV		89
94) m-DICHLOROBENZENE	17.860	146	15651	0.42	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37424.D
Acq On : 20 Feb 2013 5:12 pm
Operator : YOUMINH
Sample : ic1568-0.5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:32:40 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:53:20 2013
Response via : Initial Calibration

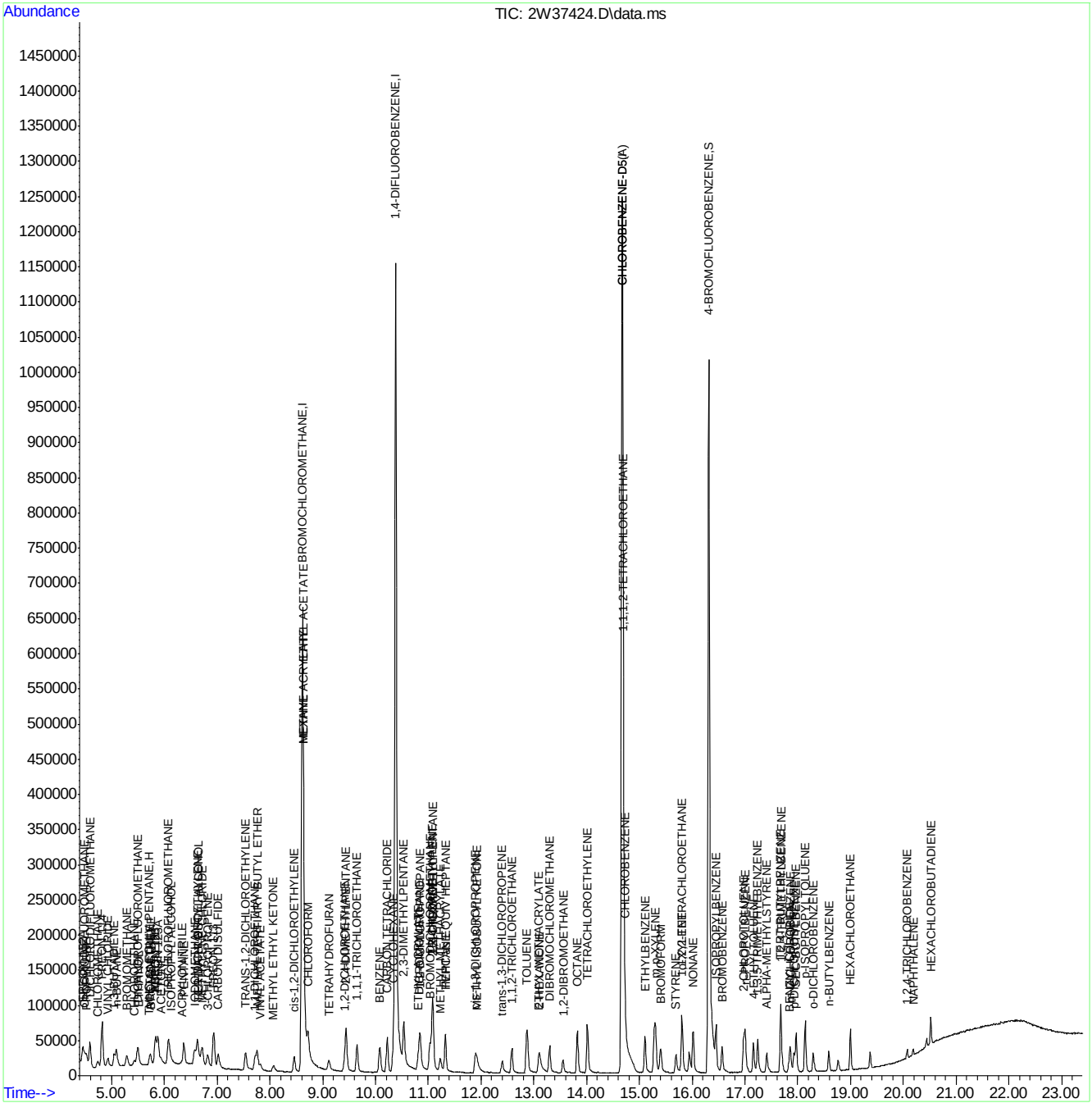
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.835	91	16771	0.41	PPBV	99
96)	p-DICHLOROBENZENE	17.927	146	16067	0.45	PPBV	98
97)	SEC-BUTYLBENZENE	17.969	134	8884	0.40	PPBV	95
98)	p-ISOPROPYLTOLUENE	18.134	134	7732	0.36	PPBV	91
99)	o-DICHLOROBENZENE	18.293	146	14141	0.42	PPBV	99
100)	n-BUTYLBENZENE	18.585	91	19625	0.37	PPBV	99
101)	HEXACHLOROETHANE	19.000	201	11179	0.45	PPBV	97
102)	HEXACHLOROBUTADIENE	20.518	225	7300	0.58	PPBV	91
103)	1,2,4-TRICHLOROBENZENE	20.073	180	4426	0.54	PPBV	98
105)	NAPHTHALENE	20.189	128	7456	0.49	PPBV	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37424.D
Acq On : 20 Feb 2013 5:12 pm
Operator : YOUMINH
Sample : ic1568-0.5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

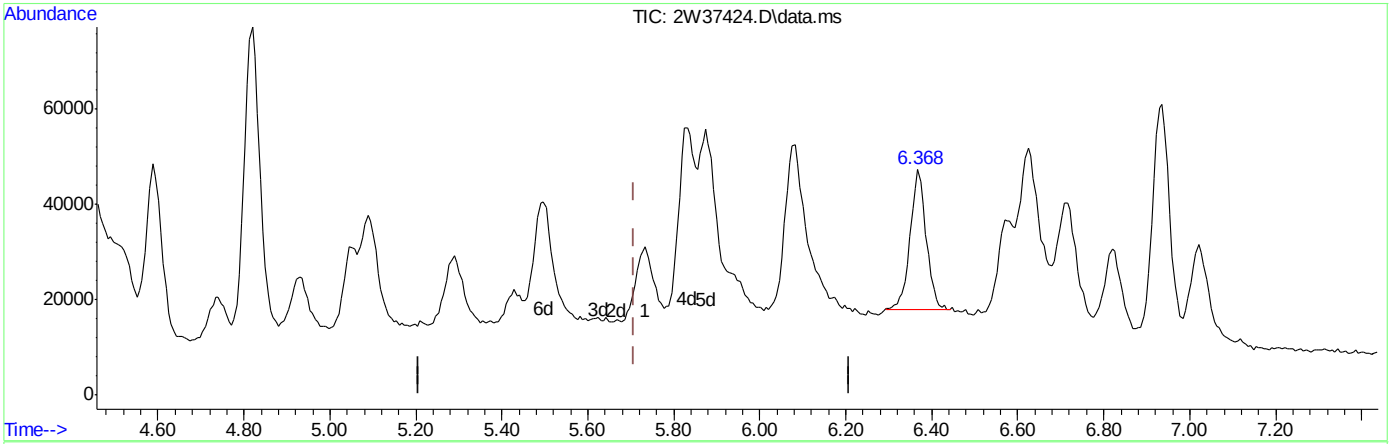
Quant Time: Feb 21 16:32:40 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:53:20 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37424.D
Acq On : 20 Feb 2013 5:12 pm
Operator : YOUMINH
Sample : ic1568-0.5
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:32:40 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:53:20 2013
Response via : Initial Calibration



TIC: 2W37424.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 0.46PPBV m

response 76827

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	27.04#
0.00	1.00	23.45#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37425.D
Acq On : 20 Feb 2013 5:51 pm
Operator : YOUMINH
Sample : ic1568-0.2
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:34:20 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:12:20 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	274375	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	1350630	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	666129	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	666129	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	620364	9.14	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 91.40%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	23800	0.21	PPBV		98
4) FREON 152A	4.454	65	8562	0.29	PPBV		88
5) CHLORODIFLUOROMETHANE	4.497	67	2416	0.21	PPBV		100
6) PROPYLENE	4.527	41	7798	0.24	PPBV		97
7) FREON 114	4.814	85	22489	0.21	PPBV		96
8) CHLOROMETHANE	4.728	52	2656	0.22	PPBV	#	69
9) VINYL CHLORIDE	4.929	62	8361	0.20	PPBV		99
10) 1,3-BUTADIENE	5.045	54	5563	0.18	PPBV		91
11) n-BUTANE	5.088	43	12513	0.21	PPBV	#	95
12) BROMOMETHANE	5.289	94	7322	0.21	PPBV		96
13) CHLOROETHANE	5.423	64	4481	0.21	PPBV		93
14) DICHLOROFLUOROMETHANE	5.490	67	17072	0.20	PPBV		98
15) ACROLEIN	5.832	56	1845	0.22	PPBV	#	74
16) FREON 123	5.825	83	15611	0.20	PPBV	#	94
17) FREON 123A	5.874	117	8703	0.20	PPBV		87
18) TRICHLOROFLUOROMETHANE	6.075	101	19992	0.20	PPBV		96
19) ISOPROPYL ALCOHOL	6.118	45	11160	0.20	PPBV	#	62
20) ACETONE	5.935	58	3560	0.27	PPBV	#	84
21) PENTANE	6.368	42	7389	0.20	PPBV		93
22) ACRYLONITRILE	6.356	53	2691	0.16	PPBV	#	33
23) TVHC as EQUIV PENTANE	5.708	TIC	35450m	0.21	PPBV		
24) IODOMETHANE	6.569	142	15463	0.19	PPBV		98
25) 1,1-DICHLOROETHYLENE	6.624	96	7377	0.22	PPBV	#	84
26) CARBON DISULFIDE	7.020	76	20396	0.20	PPBV		98
28) BROMOETHENE	5.728	106	6838	0.20	PPBV	#	92
29) ACETONITRILE	5.728	41	1854	0.12	PPBV	#	78
30) METHYLENE CHLORIDE	6.709	84	9198	0.31	PPBV		93
31) 3-CHLOROPROPENE	6.819	76	2370	0.18	PPBV		97
32) FREON 113	6.929	151	9461	0.20	PPBV		99
33) TRANS-1,2-DICHLOROETHY...	7.532	96	7650	0.21	PPBV		89
34) TERTIARY BUTYL ALCOHOL	6.649	59	16661	0.21	PPBV		93
35) METHYL TERTIARY BUTYL ...	7.758	73	16973	0.19	PPBV		92
36) TETRAHYDROFURAN	9.118	72	2408	0.18	PPBV	#	70
37) HEXANE	8.630	57	11541	0.19	PPBV		89
38) VINYL ACETATE	7.813	86	796	0.14	PPBV	#	1
39) 1,1-DICHLOROETHANE	7.709	63	11951	0.20	PPBV		93
40) METHYL ETHYL KETONE	8.069	72	2524	0.21	PPBV	#	86
41) cis-1,2-DICHLOROETHYLENE	8.459	96	6833	0.18	PPBV		90
42) ETHYL ACETATE	8.636	61	1053	0.12	PPBV	#	1

Data Path : C:\msdchem\1\DATA\
Data File : 2W37425.D
Acq On : 20 Feb 2013 5:51 pm
Operator : YOUMINH
Sample : ic1568-0.2
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:34:20 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:12:20 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) METHYL ACRYLATE	8.636	55	10894	0.20	PPBV	#	94
44) CHLOROFORM	8.721	83	13354	0.19	PPBV	#	78
45) 2,4-DIMETHYLPENTANE	9.441	57	13939	0.19	PPBV		96
46) 1,1,1-TRICHLOROETHANE	9.648	97	14667	0.19	PPBV		99
47) CARBON TETRACHLORIDE	10.221	117	15814	0.19	PPBV		96
48) 1,2-DICHLOROETHANE	9.410	62	7766	0.18	PPBV		99
50) BENZENE	10.075	78	18109	0.18	PPBV		98
51) CYCLOHEXANE	10.337	84	13101	0.22	PPBV	#	1
52) 2,3-DIMETHYLPENTANE	10.538	71	5323	0.19	PPBV		79
53) DIBROMOMETHANE	10.825	174	7766	0.19	PPBV		94
54) TRICHLOROETHYLENE	11.068	95	9612	0.20	PPBV		92
55) 1,2-DICHLOROPROPANE	10.849	63	7392	0.21	PPBV		94
56) ETHYL ACRYLATE	10.806	55	11923	0.20	PPBV	#	88
57) BROMODICHLOROMETHANE	11.032	83	15253	0.19	PPBV		97
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	33282	0.18	PPBV		95
59) 1,4-DIOXANE	11.087	88	3175	0.19	PPBV	#	1
60) METHYL METHACRYLATE	11.227	69	6504	0.21	PPBV		84
61) HEPTANE	11.318	43	11959	0.18	PPBV		93
62) TVHC as EQUIV HEPTANE	11.318	TIC	57953	0.18	PPBV		100
63) METHYL ISOBUTYL KETONE	11.922	58	4773	0.20	PPBV	#	88
64) cis-1,3-DICHLOROPROPENE	11.891	75	9496	0.19	PPBV		92
65) TOLUENE	12.861	92	11679	0.18	PPBV		95
66) trans-1,3-DICHLOROPROPENE	12.397	75	8839	0.19	PPBV		90
67) 1,1,2-TRICHLOROETHANE	12.580	83	6330	0.20	PPBV		96
69) 2-HEXANONE	13.111	58	5838	0.22	PPBV	#	86
70) ETHYL METHACRYLATE	13.092	69	9086	0.20	PPBV	#	94
71) TETRACHLOROETHYLENE	14.013	164	10373	0.21	PPBV		99
72) DIBROMOCHLOROMETHANE	13.294	129	12417	0.20	PPBV		98
73) 1,2-DIBROMOETHANE	13.556	107	9803	0.20	PPBV		99
74) OCTANE	13.824	43	13710	0.19	PPBV		98
75) 1,1,1,2-TETRACHLOROETHANE	14.696	131	8944	0.20	PPBV		94
76) CHLOROBENZENE	14.720	112	15819	0.22	PPBV		93
77) ETHYLBENZENE	15.104	91	25531	0.20	PPBV		98
78) m,p-XYLENE	15.299	106	19036	0.41	PPBV		96
79) o-XYLENE	15.805	106	9219	0.20	PPBV		96
80) STYRENE	15.696	104	10324	0.18	PPBV		100
81) NONANE	16.019	43	11958	0.19	PPBV		100
82) BROMOFORM	15.403	173	10020	0.19	PPBV		96
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	11578	0.22	PPBV		99
85) ISOPROPYLBENZENE	16.451	105	27251	0.20	PPBV		100
86) BROMOBENZENE	16.567	156	7241	0.22	PPBV		96
87) 2-CHLOROTOLUENE	16.976	126	5689	0.20	PPBV	#	96
88) n-PROPYLBENZENE	17.006	120	5724	0.19	PPBV		91
89) 4-ETHYLTOLUENE	17.159	105	17349	0.17	PPBV		98
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	18050	0.19	PPBV		98
91) ALPHA-METHYLSTYRENE	17.415	118	5941	0.17	PPBV		97
92) TERT-BUTYLBENZENE	17.677	134	4202	0.19	PPBV		93
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	14348	0.17	PPBV	#	84
94) m-DICHLOROBENZENE	17.860	146	8067	0.19	PPBV		98
95) BENZYL CHLORIDE	17.841	91	9268	0.18	PPBV		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37425.D
Acq On : 20 Feb 2013 5:51 pm
Operator : YOUMINH
Sample : ic1568-0.2
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:34:20 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:12:20 2013
Response via : Initial Calibration

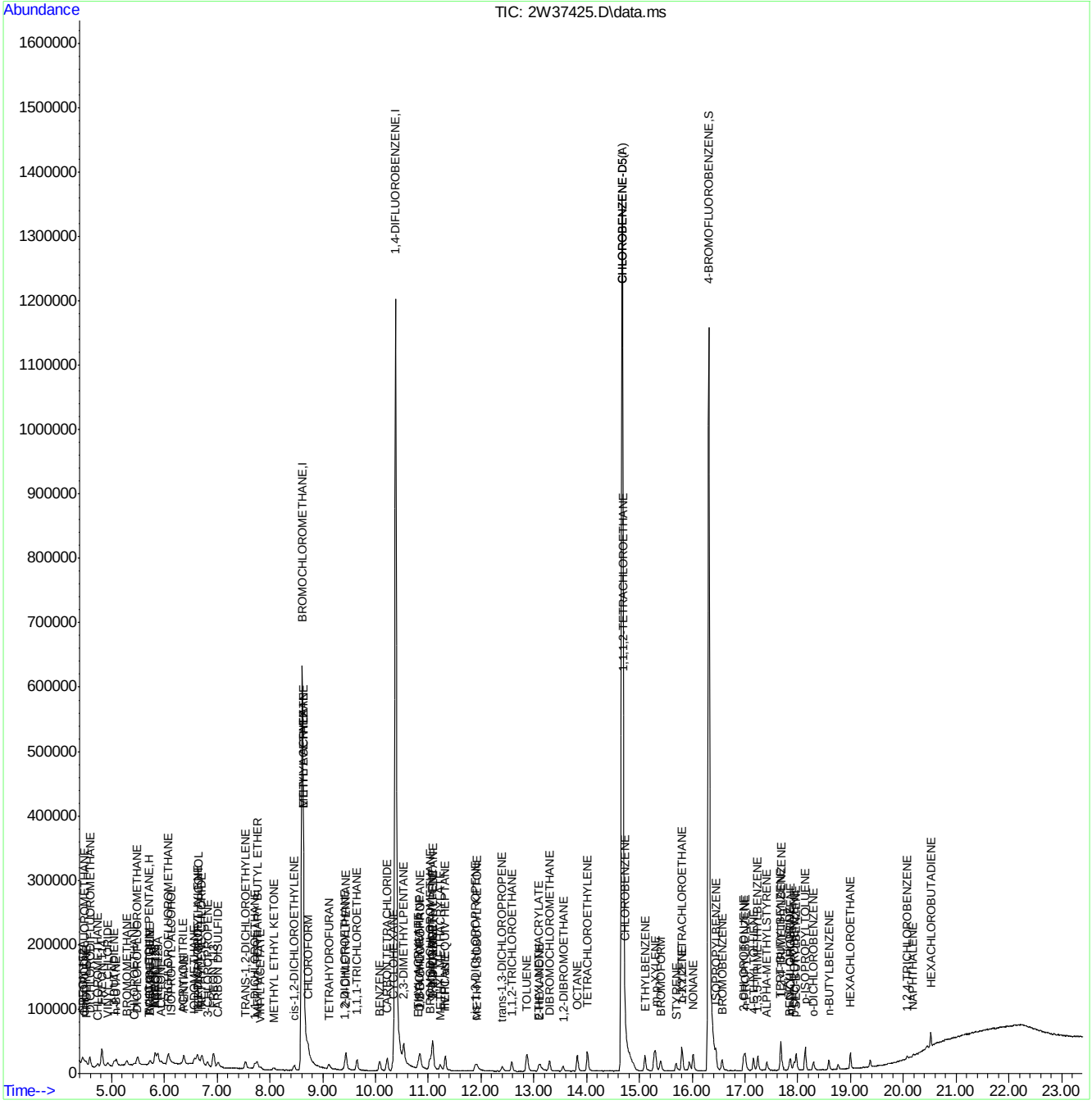
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96)	p-DICHLOROBENZENE	17.933	146	8436	0.20	PPBV	98
97)	SEC-BUTYLBENZENE	17.969	134	4227	0.18	PPBV	92
98)	p-ISOPROPYLTOLUENE	18.134	134	4007	0.18	PPBV	95
99)	o-DICHLOROBENZENE	18.299	146	7518	0.20	PPBV	98
100)	n-BUTYLBENZENE	18.585	91	11127	0.18	PPBV	93
101)	HEXACHLOROETHANE	19.000	201	4686	0.17	PPBV	88
102)	HEXACHLOROBUTADIENE	20.518	225	4031	0.26	PPBV	94
103)	1,2,4-TRICHLOROBENZENE	20.073	180	1782	0.19	PPBV	96
105)	NAPHTHALENE	20.182	128	2365	0.15	PPBV	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37425.D
Acq On : 20 Feb 2013 5:51 pm
Operator : YOUMINH
Sample : ic1568-0.2
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:34:20 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:12:20 2013
Response via : Initial Calibration

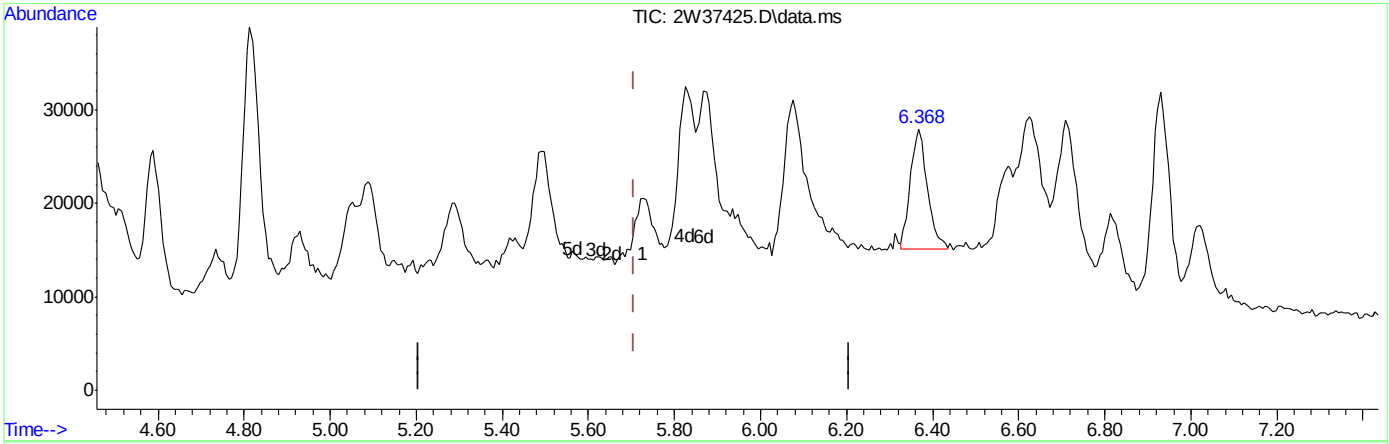


ACCUTEST LABORATORIES JB29729

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37425.D
Acq On : 20 Feb 2013 5:51 pm
Operator : YOUMINH
Sample : ic1568-0.2
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 16:34:20 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:12:20 2013
Response via : Initial Calibration



TIC: 2W37425.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 0.21PPBV m

response 35450

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	0.69#
0.00	1.00	0.82#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37426.D
Acq On : 20 Feb 2013 6:30 pm
Operator : YOUMINH
Sample : ic1568-20
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:56:06 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:55:32 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	276104	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	1369518	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.678	82	794320	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.678	82	794320	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	906928	11.27	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.70%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	2161603	18.53	PPBV		100
4) FREON 152A	4.454	65	466010	13.25	PPBV		100
5) CHLORODIFLUOROMETHANE	4.497	67	222855	18.66	PPBV		99
6) PROPYLENE	4.527	41	605923	18.25	PPBV		99
7) FREON 114	4.820	85	2038062	19.28	PPBV		100
8) CHLOROMETHANE	4.740	52	217176	17.92	PPBV		99
9) VINYL CHLORIDE	4.929	62	793519	19.37	PPBV		100
10) 1,3-BUTADIENE	5.045	54	611985	20.74	PPBV		99
11) n-BUTANE	5.094	43	1201518	19.74	PPBV		100
12) BROMOMETHANE	5.289	94	667178	19.19	PPBV		99
13) CHLOROETHANE	5.429	64	422210	19.79	PPBV		98
14) DICHLOROFLUOROMETHANE	5.496	67	1674874	20.10	PPBV		100
15) ACROLEIN	5.813	56	218492	33.20	PPBV		98
16) FREON 123	5.832	83	1522965	21.22	PPBV	#	100
17) FREON 123A	5.880	117	842267	21.16	PPBV		99
18) TRICHLOROFLUOROMETHANE	6.082	101	1885750	19.89	PPBV		100
19) ISOPROPYL ALCOHOL	6.106	45	1051644	19.66	PPBV		99
20) ACETONE	5.917	58	258551	19.16	PPBV		93
21) PENTANE	6.368	42	682851	19.66	PPBV		99
22) ACRYLONITRILE	6.313	53	411813	27.47	PPBV		99
23) TVHC as EQUIV PENTANE	5.708	TIC	3353375m	19.83	PPBV		
24) IODOMETHANE	6.575	142	1553414	20.42	PPBV		100
25) 1,1-DICHLOROETHYLENE	6.624	96	589107	18.98	PPBV		97
26) CARBON DISULFIDE	7.021	76	1892609	18.66	PPBV		100
27) ETHANOL	5.503	45	224397	19.32	PPBV		98
28) BROMOETHENE	5.734	106	654726	19.74	PPBV		100
29) ACETONITRILE	5.704	41	389700	29.06	PPBV		99
30) METHYLENE CHLORIDE	6.716	84	515502	15.67	PPBV		98
31) 3-CHLOROPROPENE	6.819	76	286014	22.44	PPBV		99
32) FREON 113	6.935	151	923781	19.54	PPBV		100
33) TRANS-1,2-DICHLOROETHY...	7.539	96	688518	18.96	PPBV		100
34) TERTIARY BUTYL ALCOHOL	6.624	59	1486081	19.20	PPBV		100
35) METHYL TERTIARY BUTYL ...	7.746	73	1693647	21.36	PPBV		100
36) TETRAHYDROFURAN	9.093	72	281916	22.56	PPBV		99
37) HEXANE	8.636	57	1228760	20.77	PPBV		98
38) VINYL ACETATE	7.813	86	140933	27.74	PPBV	#	93
39) 1,1-DICHLOROETHANE	7.722	63	1174267	20.59	PPBV		100
40) METHYL ETHYL KETONE	8.051	72	281183	21.94	PPBV		99
41) cis-1,2-DICHLOROETHYLENE	8.459	96	676662	20.62	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37426.D
Acq On : 20 Feb 2013 6:30 pm
Operator : YOUMINH
Sample : ic1568-20
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:56:06 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:55:32 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.624	61	204142	26.93	PPBV	#	78
43) METHYL ACRYLATE	8.630	55	1185894	22.97	PPBV		99
44) CHLOROFORM	8.727	83	1399161	20.97	PPBV		100
45) 2,4-DIMETHYLPENTANE	9.447	57	1516397	20.85	PPBV		100
46) 1,1,1-TRICHLOROETHANE	9.654	97	1471848	20.57	PPBV		100
47) CARBON TETRACHLORIDE	10.221	117	1690787	20.29	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	878410	22.31	PPBV		100
50) BENZENE	10.087	78	1969816	21.81	PPBV		100
51) CYCLOHEXANE	10.343	84	1043750	18.07	PPBV		97
52) 2,3-DIMETHYLPENTANE	10.538	71	558971	20.74	PPBV		100
53) DIBROMOMETHANE	10.831	174	776743	20.93	PPBV		98
54) TRICHLOROETHYLENE	11.075	95	934725	20.98	PPBV		99
55) 1,2-DICHLOROPROPANE	10.849	63	739356	21.91	PPBV		99
56) ETHYL ACRYLATE	10.800	55	1325543	23.08	PPBV	#	97
57) BROMODICHLOROMETHANE	11.032	83	1591525	21.38	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	3645619	21.42	PPBV		100
59) 1,4-DIOXANE	11.056	88	355105	20.59	PPBV	#	27
60) METHYL METHACRYLATE	11.221	69	643847	21.46	PPBV		98
61) HEPTANE	11.325	43	1358306	22.30	PPBV		99
62) TVHC as EQUIV HEPTANE	11.325	TIC	6693944	21.67	PPBV		100
63) METHYL ISOBUTYL KETONE	11.904	58	515376	21.54	PPBV		99
64) cis-1,3-DICHLOROPROPENE	11.892	75	1082972	23.28	PPBV		99
65) TOLUENE	12.867	92	1359962	23.17	PPBV		100
66) trans-1,3-DICHLOROPROPENE	12.398	75	1033729	24.45	PPBV		99
67) 1,1,2-TRICHLOROETHANE	12.587	83	665289	22.28	PPBV		99
69) 2-HEXANONE	13.092	58	691665	19.97	PPBV		99
70) ETHYL METHACRYLATE	13.086	69	1040331	19.30	PPBV		98
71) TETRACHLOROETHYLENE	14.019	164	967727	17.16	PPBV		100
72) DIBROMOCHLOROMETHANE	13.300	129	1383518	19.57	PPBV		100
73) 1,2-DIBROMOETHANE	13.556	107	1101274	20.62	PPBV		100
74) OCTANE	13.824	43	1685641	20.21	PPBV		100
75) 1,1,1,2-TETRACHLOROETHANE	14.702	131	968868	19.31	PPBV		100
76) CHLOROBENZENE	14.726	112	1649317	19.39	PPBV		99
77) ETHYLBENZENE	15.104	91	2836792	20.40	PPBV		100
78) m,p-XYLENE	15.299	106	2139479	40.54	PPBV		99
79) o-XYLENE	15.811	106	1039222	20.08	PPBV		99
80) STYRENE	15.690	104	1526238	24.02	PPBV		100
81) NONANE	16.019	43	1587108	21.97	PPBV		99
82) BROMOFORM	15.403	173	1184911	20.64	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	1301615	20.38	PPBV		100
85) ISOPROPYLBENZENE	16.452	105	3057044	20.30	PPBV		100
86) BROMOBENZENE	16.567	156	813975	20.90	PPBV		99
87) 2-CHLOROTOLUENE	16.976	126	679440	21.20	PPBV	#	98
88) n-PROPYLBENZENE	17.000	120	764663	22.42	PPBV		99
89) 4-ETHYLTOLUENE	17.159	105	2608666	23.96	PPBV		99
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	2328509	22.04	PPBV		100
91) ALPHA-METHYLSTYRENE	17.409	118	1004945	25.99	PPBV		100
92) TERT-BUTYLBENZENE	17.677	134	553442	22.09	PPBV		99
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	2174016	23.87	PPBV		98
94) m-DICHLOROBENZENE	17.854	146	1139348	24.44	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37426.D
Acq On : 20 Feb 2013 6:30 pm
Operator : YOUMINH
Sample : ic1568-20
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:56:06 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:55:32 2013
Response via : Initial Calibration

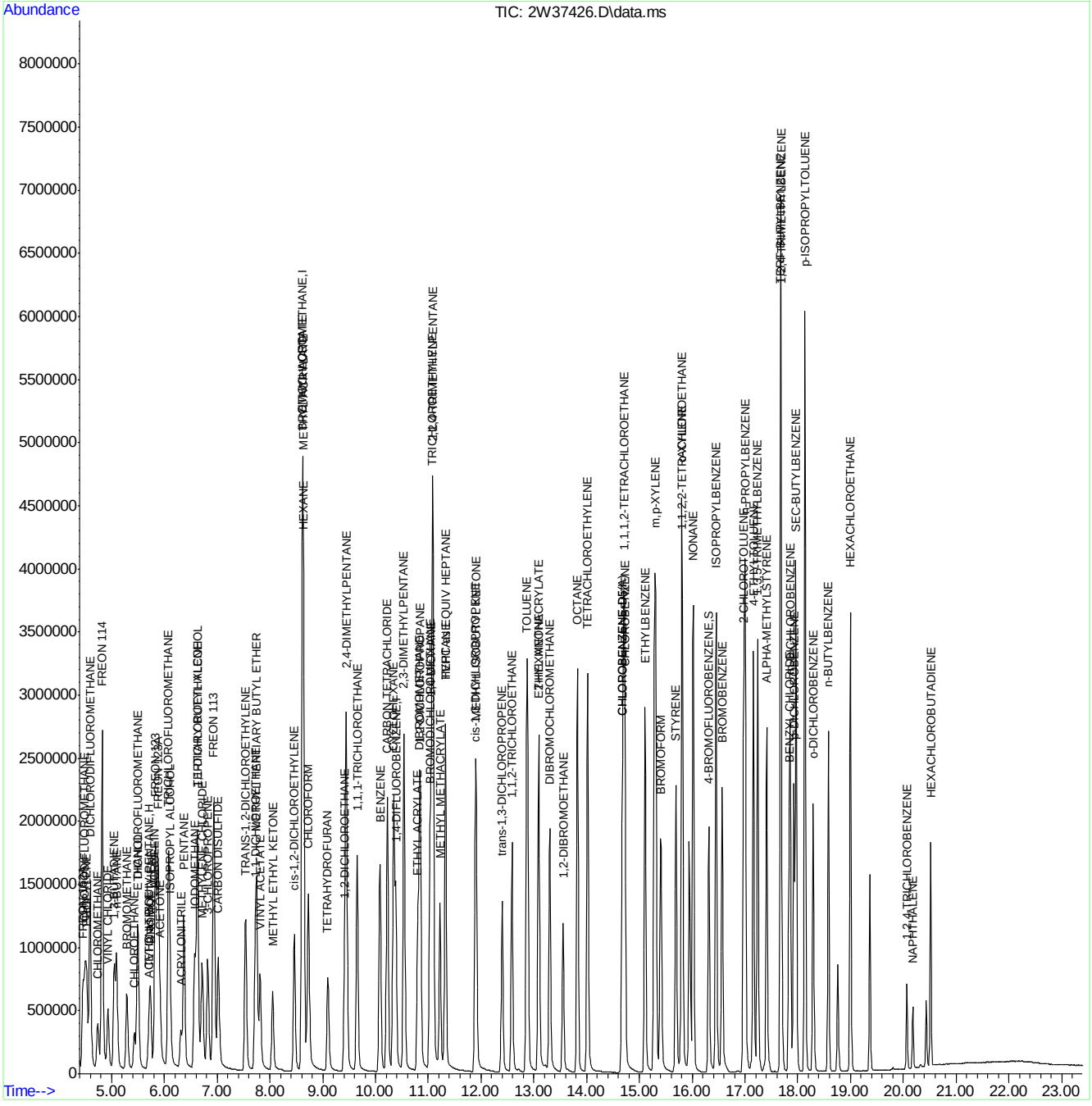
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.835	91	1280694	24.89	PPBV	100
96)	p-DICHLOROBENZENE	17.927	146	1100668	23.76	PPBV	99
97)	SEC-BUTYLBENZENE	17.970	134	621161	23.29	PPBV	99
98)	p-ISOPROPYLTOLUENE	18.134	134	596954	24.10	PPBV	98
99)	o-DICHLOROBENZENE	18.293	146	992478	23.48	PPBV	100
100)	n-BUTYLBENZENE	18.579	91	1630354	25.53	PPBV	100
101)	HEXACHLOROETHANE	19.000	201	707595	23.28	PPBV	99
102)	HEXACHLOROBUTADIENE	20.518	225	337965	17.86	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	20.067	180	217913	20.04	PPBV	100
105)	NAPHTHALENE	20.183	128	409473	22.41	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37426.D
Acq On : 20 Feb 2013 6:30 pm
Operator : YOUMINH
Sample : ic1568-20
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

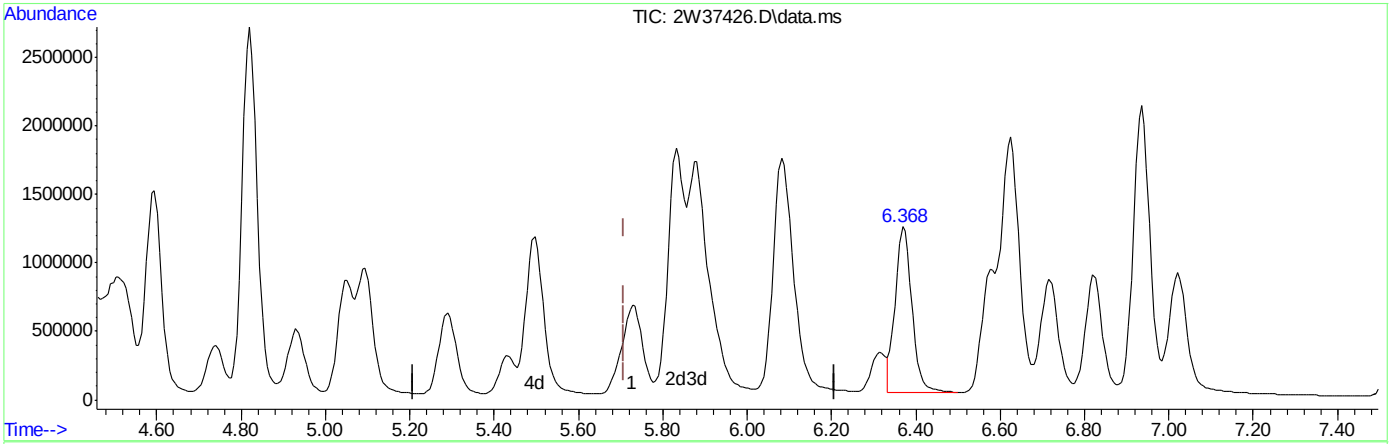
Quant Time: Feb 21 08:56:06 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:55:32 2013
Response via : Initial Calibration

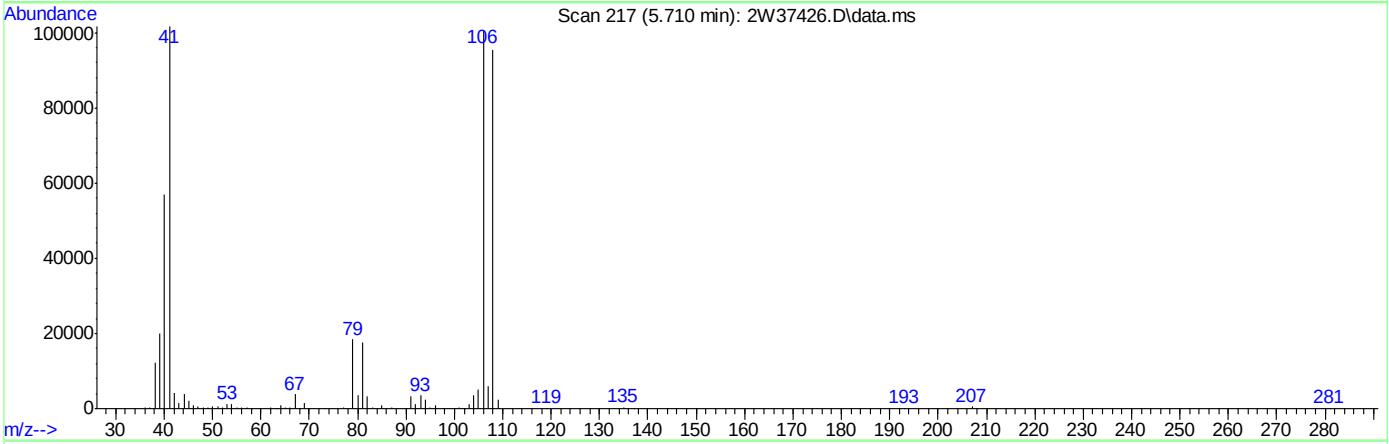


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37426.D
Acq On : 20 Feb 2013 6:30 pm
Operator : YOUMINH
Sample : ic1568-20
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:56:06 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:55:32 2013
Response via : Initial Calibration





TIC: 2W37426.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 19.83PPBV m

response 3353375

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	1.57#
0.00	1.00	1.35#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37427.D
Acq On : 20 Feb 2013 7:08 pm
Operator : YOUMINH
Sample : ic1568-15
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 09:12:05 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:14 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	270503	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	1301861	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.678	82	742679	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.678	82	742679	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	846378	10.97	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.70%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	1729391	15.36	PPBV		100
4) FREON 152A	4.454	65	357979	11.14	PPBV		98
5) CHLORODIFLUOROMETHANE	4.491	67	182206	15.78	PPBV		99
6) PROPYLENE	4.527	41	446178	13.96	PPBV		99
7) FREON 114	4.820	85	1578203	15.35	PPBV		98
8) CHLOROMETHANE	4.734	52	164264	14.13	PPBV		99
9) VINYL CHLORIDE	4.929	62	609021	15.27	PPBV		100
10) 1,3-BUTADIENE	5.045	54	466266	16.01	PPBV		100
11) n-BUTANE	5.094	43	907714	15.26	PPBV		100
12) BROMOMETHANE	5.289	94	520301	15.40	PPBV		100
13) CHLOROETHANE	5.429	64	318923	15.29	PPBV		98
14) DICHLOROFLUOROMETHANE	5.490	67	1277609	15.63	PPBV		100
15) ACROLEIN	5.813	56	151319	20.73	PPBV		98
16) FREON 123	5.832	83	1160917	16.31	PPBV	#	99
17) FREON 123A	5.881	117	653474	16.57	PPBV		98
18) TRICHLOROFLUOROMETHANE	6.076	101	1454081	15.67	PPBV		100
19) ISOPROPYL ALCOHOL	6.100	45	795186	15.22	PPBV		99
20) ACETONE	5.917	58	181556	13.85	PPBV		94
21) PENTANE	6.368	42	517997	15.28	PPBV		100
22) ACRYLONITRILE	6.313	53	281239	17.82	PPBV		100
23) TVHC as EQUIV PENTANE	5.708	TIC	2574554m	15.57	PPBV		
24) IODOMETHANE	6.575	142	1193496	15.94	PPBV		100
25) 1,1-DICHLOROETHYLENE	6.624	96	448656	14.91	PPBV		98
26) CARBON DISULFIDE	7.021	76	1462067	14.92	PPBV		99
27) ETHANOL	5.503	45	162336	14.37	PPBV		99
28) BROMOETHENE	5.728	106	508603	15.69	PPBV		100
29) ACETONITRILE	5.698	41	270589	18.88	PPBV		100
30) METHYLENE CHLORIDE	6.716	84	398021	12.91	PPBV		98
31) 3-CHLOROPROPENE	6.819	76	211644	16.55	PPBV		99
32) FREON 113	6.935	151	719050	15.59	PPBV		100
33) TRANS-1,2-DICHLOROETHY...	7.539	96	526520	14.95	PPBV		100
34) TERTIARY BUTYL ALCOHOL	6.624	59	1138891	15.14	PPBV		100
35) METHYL TERTIARY BUTYL ...	7.746	73	1197232	15.21	PPBV		100
36) TETRAHYDROFURAN	9.093	72	200397	15.96	PPBV		98
37) HEXANE	8.630	57	929040	15.90	PPBV		99
38) VINYL ACETATE	7.813	86	97539	18.19	PPBV		97
39) 1,1-DICHLOROETHANE	7.716	63	858380	15.27	PPBV		100
40) METHYL ETHYL KETONE	8.051	72	198115	15.48	PPBV		100
41) cis-1,2-DICHLOROETHYLENE	8.459	96	500623	15.47	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37427.D
Acq On : 20 Feb 2013 7:08 pm
Operator : YOUMINH
Sample : ic1568-15
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 09:12:05 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:14 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.624	61	136982	17.25	PPBV	#	94
43) METHYL ACRYLATE	8.624	55	825457	15.85	PPBV		99
44) CHLOROFORM	8.728	83	1064426	16.13	PPBV		100
45) 2,4-DIMETHYLPENTANE	9.441	57	1141832	15.89	PPBV		100
46) 1,1,1-TRICHLOROETHANE	9.648	97	1092835	15.50	PPBV		100
47) CARBON TETRACHLORIDE	10.221	117	1294171	15.81	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	630170	15.97	PPBV		100
50) BENZENE	10.081	78	1396359	15.97	PPBV		100
51) CYCLOHEXANE	10.343	84	795265	14.77	PPBV		97
52) 2,3-DIMETHYLPENTANE	10.538	71	423957	16.43	PPBV		100
53) DIBROMOMETHANE	10.831	174	568849	15.97	PPBV		99
54) TRICHLOROETHYLENE	11.069	95	712614	16.66	PPBV		99
55) 1,2-DICHLOROPROPANE	10.849	63	512015	15.66	PPBV		100
56) ETHYL ACRYLATE	10.794	55	922856	16.40	PPBV	#	97
57) BROMODICHLOROMETHANE	11.032	83	1163651	16.22	PPBV		99
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	2685706	16.37	PPBV		100
59) 1,4-DIOXANE	11.056	88	268357	16.28	PPBV	#	34
60) METHYL METHACRYLATE	11.221	69	445799	15.41	PPBV		99
61) HEPTANE	11.325	43	1037029	17.51	PPBV		99
62) TVHC as EQUIV HEPTANE	11.325	TIC	5146872	17.24	PPBV		100
63) METHYL ISOBUTYL KETONE	11.904	58	370216	16.03	PPBV		98
64) cis-1,3-DICHLOROPROPENE	11.892	75	753890	16.51	PPBV		100
65) TOLUENE	12.867	92	936138	16.27	PPBV		100
66) trans-1,3-DICHLOROPROPENE	12.398	75	707905	16.86	PPBV		99
67) 1,1,2-TRICHLOROETHANE	12.587	83	463574	15.97	PPBV		100
69) 2-HEXANONE	13.093	58	493167	15.23	PPBV		99
70) ETHYL METHACRYLATE	13.086	69	741634	14.82	PPBV		98
71) TETRACHLOROETHYLENE	14.019	164	718569	14.02	PPBV		100
72) DIBROMOCHLOROMETHANE	13.300	129	979010	14.87	PPBV		100
73) 1,2-DIBROMOETHANE	13.556	107	760812	15.14	PPBV		100
74) OCTANE	13.824	43	1191415	15.25	PPBV		99
75) 1,1,1,2-TETRACHLOROETHANE	14.702	131	675654	14.50	PPBV		100
76) CHLOROBENZENE	14.720	112	1157161	14.64	PPBV		99
77) ETHYLBENZENE	15.104	91	1952185	14.95	PPBV		100
78) m,p-XYLENE	15.299	106	1478298	29.88	PPBV		97
79) o-XYLENE	15.812	106	723306	14.94	PPBV		99
80) STYRENE	15.690	104	1043667	16.89	PPBV		100
81) NONANE	16.019	43	1098421	15.95	PPBV		99
82) BROMOFORM	15.403	173	838284	15.52	PPBV		100
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	898245	14.99	PPBV		99
85) ISOPROPYLBENZENE	16.452	105	2120116	15.01	PPBV		100
86) BROMOBENZENE	16.567	156	568444	15.47	PPBV		99
87) 2-CHLOROTOLUENE	16.976	126	469938	15.49	PPBV	#	99
88) n-PROPYLBENZENE	17.000	120	527013	16.13	PPBV		99
89) 4-ETHYLTOLUENE	17.159	105	1784476	16.86	PPBV		100
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	1598187	15.85	PPBV		100
91) ALPHA-METHYLSTYRENE	17.409	118	685989	17.90	PPBV		99
92) TERT-BUTYLBENZENE	17.677	134	377570	15.79	PPBV		100
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	1490455	16.85	PPBV		99
94) m-DICHLOROBENZENE	17.854	146	787124	17.29	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37427.D
Acq On : 20 Feb 2013 7:08 pm
Operator : YOUMINH
Sample : ic1568-15
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 09:12:05 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:14 2013
Response via : Initial Calibration

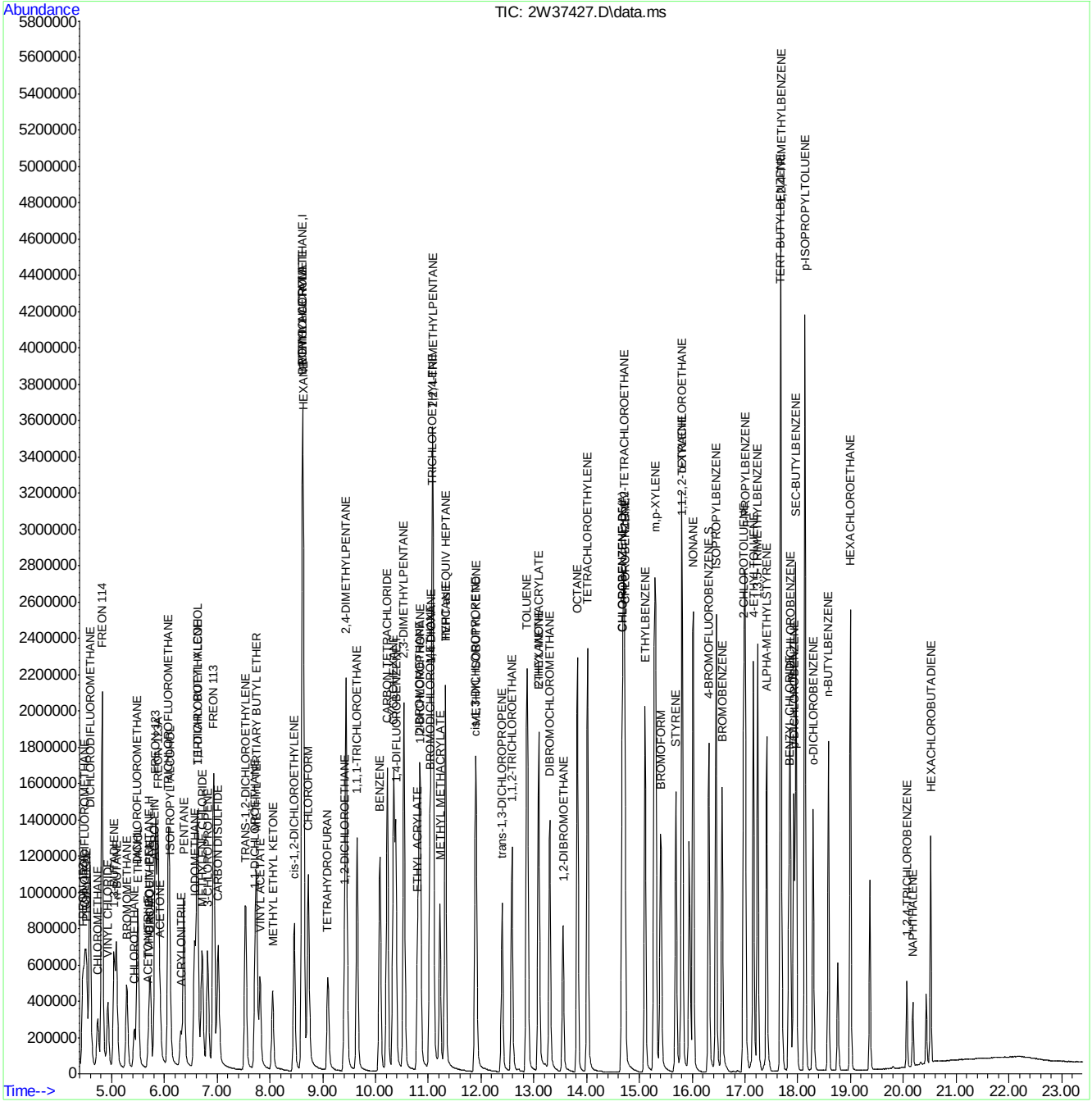
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.836	91	865288	17.15	PPBV	100
96)	p-DICHLOROBENZENE	17.927	146	758509	16.88	PPBV	100
97)	SEC-BUTYLBENZENE	17.964	134	429981	16.69	PPBV	99
98)	p-ISOPROPYLTOLUENE	18.134	134	412027	17.09	PPBV	99
99)	o-DICHLOROBENZENE	18.293	146	685218	16.76	PPBV	100
100)	n-BUTYLBENZENE	18.579	91	1109524	17.61	PPBV	100
101)	HEXACHLOROETHANE	19.000	201	487607	16.62	PPBV	99
102)	HEXACHLOROBUTADIENE	20.518	225	239663	13.84	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	20.067	180	157592	15.50	PPBV	99
105)	NAPHTHALENE	20.183	128	298387	17.05	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37427.D
Acq On : 20 Feb 2013 7:08 pm
Operator : YOUMINH
Sample : ic1568-15
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

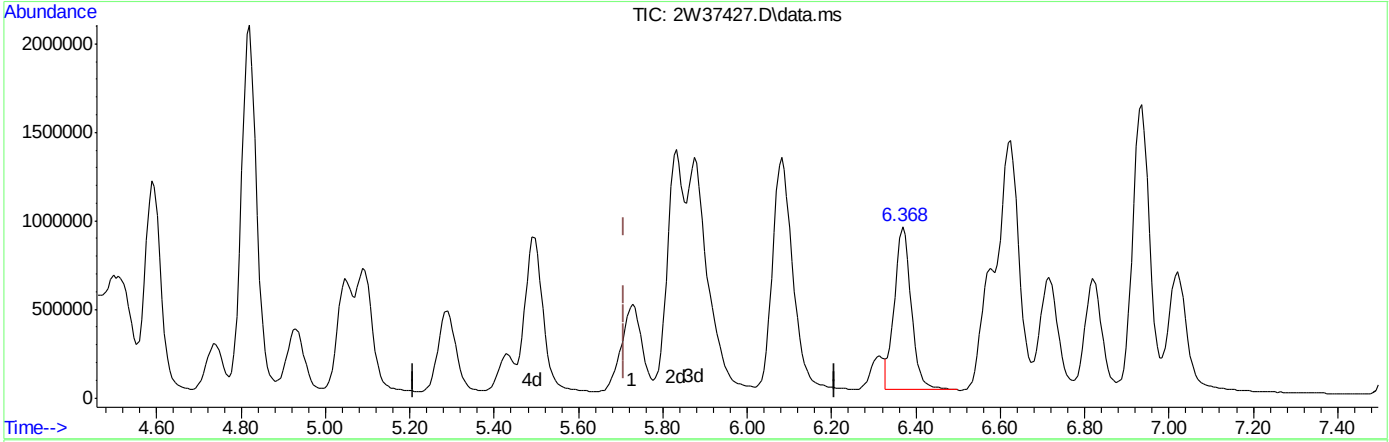
Quant Time: Feb 21 09:12:05 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:14 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37427.D
Acq On : 20 Feb 2013 7:08 pm
Operator : YOUMINH
Sample : ic1568-15
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 09:12:05 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:14 2013
Response via : Initial Calibration



TIC: 2W37427.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 15.57PPBV m

response 2574554

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	1.50#
0.00	1.00	1.29#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37429.D
Acq On : 20 Feb 2013 8:24 pm
Operator : YOUMINH
Sample : ic1568-0.1
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 21 16:51:22 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:57:31 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.617	128	256746	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.379	114	1239196	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	611240	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	611240	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	539097	8.31	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 83.10%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.594	85	11254	0.11	PPBV		98
5) CHLORODIFLUOROMETHANE	4.490	67	1190	0.11	PPBV		92
7) FREON 114	4.813	85	10629	0.11	PPBV		98
9) VINYL CHLORIDE	4.929	62	4213	0.11	PPBV		94
10) 1,3-BUTADIENE	5.051	54	2770	0.10	PPBV		90
12) BROMOMETHANE	5.289	94	3561	0.11	PPBV	#	81
13) CHLOROETHANE	5.423	64	2124	0.11	PPBV		94
14) DICHLOROFLUOROMETHANE	5.490	67	9226	0.12	PPBV	#	96
16) FREON 123	5.825	83	7066	0.10	PPBV	#	96
17) FREON 123A	5.874	117	3920	0.10	PPBV		96
18) TRICHLOROFLUOROMETHANE	6.081	101	9684	0.11	PPBV		96
19) ISOPROPYL ALCOHOL	6.112	45	4711	0.10	PPBV	#	40
24) IODOMETHANE	6.569	142	7509	0.10	PPBV		99
25) 1,1-DICHLOROETHYLENE	6.630	96	3647	0.13	PPBV	#	83
26) CARBON DISULFIDE	7.020	76	10058	0.11	PPBV		98
28) BROMOETHENE	5.734	106	3088	0.10	PPBV	#	91
31) 3-CHLOROPROPENE	6.825	76	1030	0.08	PPBV		90
32) FREON 113	6.935	151	4240	0.10	PPBV		97
33) TRANS-1,2-DICHLOROETHY...	7.538	96	3421	0.10	PPBV		90
34) TERTIARY BUTYL ALCOHOL	6.642	59	6660	0.09	PPBV	#	74
35) METHYL TERTIARY BUTYL ...	7.764	73	7616	0.10	PPBV		87
37) HEXANE	8.630	57	5187	0.09	PPBV		88
39) 1,1-DICHLOROETHANE	7.715	63	5216	0.10	PPBV		94
41) cis-1,2-DICHLOROETHYLENE	8.465	96	3237	0.10	PPBV		85
43) METHYL ACRYLATE	8.636	55	4103	0.08	PPBV	#	87
44) CHLOROFORM	8.721	83	6068	0.09	PPBV	#	73
45) 2,4-DIMETHYLPENTANE	9.441	57	5977	0.09	PPBV		97
46) 1,1,1-TRICHLOROETHANE	9.648	97	6407	0.09	PPBV		98
47) CARBON TETRACHLORIDE	10.221	117	7189	0.09	PPBV		98
48) 1,2-DICHLOROETHANE	9.404	62	3463	0.09	PPBV		92
50) BENZENE	10.081	78	8693	0.10	PPBV		96
52) 2,3-DIMETHYLPENTANE	10.544	71	2127	0.08	PPBV	#	55
53) DIBROMOMETHANE	10.824	174	3740	0.11	PPBV		94
54) TRICHLOROETHYLENE	11.068	95	4341	0.10	PPBV		93
57) BROMODICHLOROMETHANE	11.026	83	7171	0.10	PPBV		92
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	15084	0.09	PPBV		97
60) METHYL METHACRYLATE	11.239	69	2142	0.08	PPBV	#	87
61) HEPTANE	11.324	43	5552	0.09	PPBV		94
62) TVHC as EQUIV HEPTANE	11.324	TIC	25893	0.09	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37429.D
Acq On : 20 Feb 2013 8:24 pm
Operator : YOUMINH
Sample : ic1568-0.1
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 21 16:51:22 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:57:31 2013
Response via : Initial Calibration

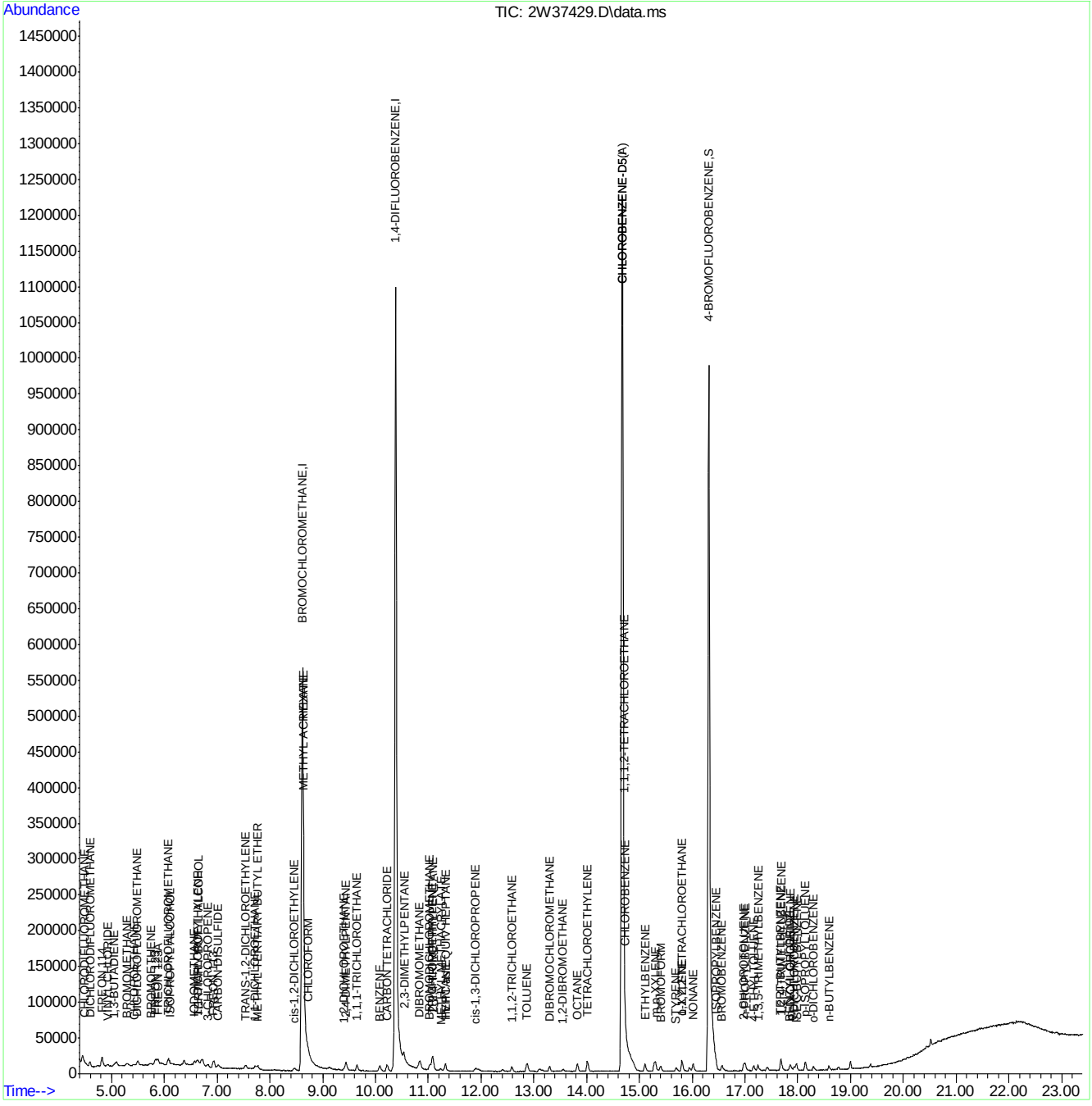
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	cis-1,3-DICHLOROPROPENE	11.897	75	4212	0.09	PPBV		89
65)	TOLUENE	12.861	92	5195	0.09	PPBV		95
67)	1,1,2-TRICHLOROETHANE	12.580	83	2684	0.09	PPBV		96
71)	TETRACHLOROETHYLENE	14.013	164	4996	0.12	PPBV		96
72)	DIBROMOCHLOROMETHANE	13.300	129	5433	0.10	PPBV		99
73)	1,2-DIBROMOETHANE	13.549	107	4343	0.11	PPBV	#	94
74)	OCTANE	13.824	43	6284	0.10	PPBV		93
75)	1,1,1,2-TETRACHLOROETHANE	14.702	131	4029	0.11	PPBV		95
76)	CHLOROBENZENE	14.720	112	7157	0.11	PPBV	#	39
77)	ETHYLBENZENE	15.104	91	10703	0.10	PPBV		97
78)	m,p-XYLENE	15.293	106	7937	0.20	PPBV		93
79)	o-XYLENE	15.805	106	3624	0.09	PPBV		88
80)	STYRENE	15.689	104	4011	0.08	PPBV		95
81)	NONANE	16.019	43	4907	0.09	PPBV		95
82)	BROMOFORM	15.403	173	4350	0.10	PPBV		96
84)	1,1,2,2-TETRACHLOROETHANE	15.805	83	5065	0.10	PPBV		93
85)	ISOPROPYLBENZENE	16.451	105	11657	0.10	PPBV		97
86)	BROMOBENZENE	16.561	156	3071	0.10	PPBV		92
87)	2-CHLOROTOLUENE	16.976	126	2314	0.09	PPBV	#	85
88)	n-PROPYLBENZENE	17.006	120	2192	0.08	PPBV		78
89)	4-ETHYLTOLUENE	17.165	105	6707	0.08	PPBV		97
90)	1,3,5-TRIMETHYLBENZENE	17.244	105	6784	0.08	PPBV		98
92)	TERT-BUTYLBENZENE	17.677	134	1540	0.08	PPBV		81
93)	1,2,4-TRIMETHYLBENZENE	17.689	105	5466	0.07	PPBV	#	81
94)	m-DICHLOROBENZENE	17.860	146	3700	0.09	PPBV		97
95)	BENZYL CHLORIDE	17.847	91	3873	0.09	PPBV		90
96)	p-DICHLOROBENZENE	17.927	146	3845	0.10	PPBV		97
97)	SEC-BUTYLBENZENE	17.975	134	1542	0.07	PPBV	#	94
98)	p-ISOPROPYLTOLUENE	18.140	134	1393	0.07	PPBV		81
99)	o-DICHLOROBENZENE	18.299	146	3301	0.10	PPBV		96
100)	n-BUTYLBENZENE	18.591	91	3940	0.07	PPBV		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37429.D
Acq On : 20 Feb 2013 8:24 pm
Operator : YOUMINH
Sample : ic1568-0.1
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 21 16:51:22 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:57:31 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37430.D
Acq On : 20 Feb 2013 9:02 pm
Operator : YOUMINH
Sample : ic1568-0.04
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 21 16:56:16 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:57:48 2013
Response via : Initial Calibration

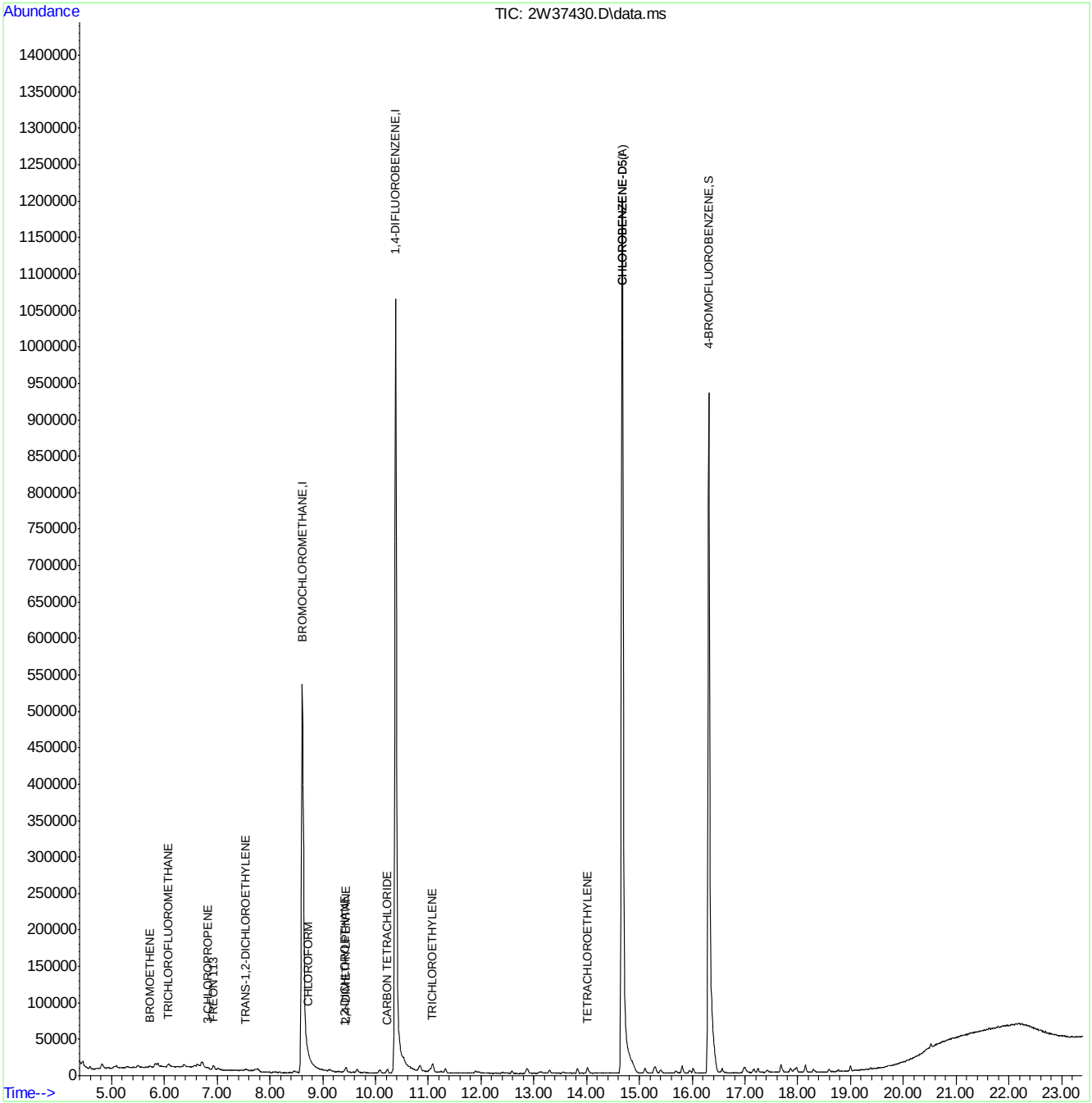
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	252563	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	1212897	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	599812	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.671	82	599812	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	515057	8.27	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 82.70%				
Target Compounds							Qvalue
18) TRICHLOROFLUOROMETHANE	6.076	101	4811	0.05	PPBV		88
28) BROMOETHENE	5.728	106	1433	0.05	PPBV	#	84
31) 3-CHLOROPROPENE	6.825	76	557	0.05	PPBV	#	55
32) FREON 113	6.929	151	2201	0.05	PPBV		96
33) TRANS-1,2-DICHLOROETHY...	7.539	96	1638	0.05	PPBV		87
44) CHLOROFORM	8.721	83	3493	0.06	PPBV	#	81
45) 2,4-DIMETHYLPENTANE	9.435	57	3072	0.05	PPBV		94
47) CARBON TETRACHLORIDE	10.221	117	3630	0.05	PPBV		96
48) 1,2-DICHLOROETHANE	9.410	62	2020	0.05	PPBV		90
54) TRICHLOROETHYLENE	11.069	95	2586	0.06	PPBV		92
71) TETRACHLOROETHYLENE	14.019	164	2881	0.07	PPBV		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37430.D
Acq On : 20 Feb 2013 9:02 pm
Operator : YOUMINH
Sample : ic1568-0.04
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 21 16:56:16 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:57:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37431.D
Acq On : 20 Feb 2013 9:44 pm
Operator : YOUMINH
Sample : ic1568-40
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:57:18 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:50 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	276958	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	1292092	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.677	82	856062	10.00	PPBV	#	0.00
104) CHLOROBENZENE-D5(A)	14.677	82	856062	10.00	PPBV	#	0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.317	95	935544	10.35	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.50%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	4097132	35.40	PPBV		99
4) FREON 152A	4.454	65	898043	28.52	PPBV		99
5) CHLORODIFLUOROMETHANE	4.490	67	427723	35.87	PPBV		100
6) PROPYLENE	4.527	41	1157087	35.78	PPBV		99
7) FREON 114	4.813	85	3895065	36.86	PPBV		100
8) CHLOROMETHANE	4.734	52	419072	35.55	PPBV		97
9) VINYL CHLORIDE	4.929	62	1548090	37.79	PPBV		100
10) 1,3-BUTADIENE	5.045	54	1191980	39.53	PPBV		97
11) n-BUTANE	5.088	43	2277609	37.29	PPBV		99
12) BROMOMETHANE	5.289	94	1303687	37.52	PPBV		100
13) CHLOROETHANE	5.429	64	825324	38.52	PPBV		98
14) DICHLOROFLUOROMETHANE	5.490	67	3240341	38.46	PPBV		99
15) ACROLEIN	5.813	56	434454	54.66	PPBV		99
16) FREON 123	5.832	83	3187076	43.11	PPBV	#	99
17) FREON 123A	5.874	117	1777855	43.27	PPBV		98
18) TRICHLOROFLUOROMETHANE	6.075	101	3618913	37.81	PPBV		100
19) ISOPROPYL ALCOHOL	6.106	45	1814036	33.84	PPBV		98
20) ACETONE	5.917	58	523192	39.48	PPBV		96
21) PENTANE	6.368	42	1248161	35.84	PPBV		99
22) ACRYLONITRILE	6.313	53	852728	51.16	PPBV		99
23) TVHC as EQUIV PENTANE	5.708	TIC	6098385m	35.79	PPBV		
24) IODOMETHANE	6.575	142	3087449	39.87	PPBV		99
25) 1,1-DICHLOROETHYLENE	6.624	96	1153454	37.47	PPBV		95
26) CARBON DISULFIDE	7.020	76	3596048	35.86	PPBV		100
27) ETHANOL	5.502	45	390970	34.03	PPBV		97
28) BROMOETHENE	5.728	106	1288343	38.52	PPBV		100
29) ACETONITRILE	5.697	41	796888	52.07	PPBV		99
30) METHYLENE CHLORIDE	6.716	84	1001962	32.50	PPBV		98
31) 3-CHLOROPROPENE	6.819	76	605191	45.43	PPBV		98
32) FREON 113	6.935	151	1777312	37.40	PPBV		100
33) TRANS-1,2-DICHLOROETHY...	7.532	96	1324533	36.76	PPBV		99
34) TERTIARY BUTYL ALCOHOL	6.624	59	2757029	35.74	PPBV		100
35) METHYL TERTIARY BUTYL ...	7.746	73	3352328	41.49	PPBV		100
36) TETRAHYDROFURAN	9.093	72	566868	43.63	PPBV		99
37) HEXANE	8.630	57	2352370	38.94	PPBV		99
38) VINYL ACETATE	7.813	86	295384	51.96	PPBV	#	94
39) 1,1-DICHLOROETHANE	7.721	63	2408598	41.72	PPBV		100
40) METHYL ETHYL KETONE	8.051	72	561237	42.60	PPBV		96
41) cis-1,2-DICHLOROETHYLENE	8.459	96	1447579	43.47	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37431.D
Acq On : 20 Feb 2013 9:44 pm
Operator : YOUMINH
Sample : ic1568-40
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:57:18 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:50 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.624	61	398478	47.81	PPBV	#	75
43) METHYL ACRYLATE	8.630	55	2393804	44.47	PPBV		98
44) CHLOROFORM	8.727	83	2924414	42.74	PPBV		99
45) 2,4-DIMETHYLPENTANE	9.447	57	2911800	39.19	PPBV		100
46) 1,1,1-TRICHLOROETHANE	9.648	97	3093836	42.63	PPBV		100
47) CARBON TETRACHLORIDE	10.221	117	3234108	38.23	PPBV		100
48) 1,2-DICHLOROETHANE	9.416	62	1758466	43.05	PPBV		100
50) BENZENE	10.087	78	3931064	44.82	PPBV		100
51) CYCLOHEXANE	10.343	84	1988663	37.31	PPBV		95
52) 2,3-DIMETHYLPENTANE	10.544	71	1073171	41.24	PPBV		100
53) DIBROMOMETHANE	10.831	174	1555974	43.55	PPBV		98
54) TRICHLOROETHYLENE	11.074	95	1917966	44.37	PPBV		99
55) 1,2-DICHLOROPROPANE	10.849	63	1475984	45.15	PPBV		99
56) ETHYL ACRYLATE	10.800	55	2669981	47.07	PPBV	#	97
57) BROMODICHLOROMETHANE	11.038	83	3185595	44.14	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.093	57	7498421	45.36	PPBV		100
59) 1,4-DIOXANE	11.056	88	604905	36.45	PPBV	#	30
60) METHYL METHACRYLATE	11.221	69	1303048	45.17	PPBV		99
61) HEPTANE	11.324	43	2767367	45.80	PPBV		99
62) TVHC as EQUIV HEPTANE	11.324	TIC	13590419	44.76	PPBV		100
63) METHYL ISOBUTYL KETONE	11.910	58	1016180	43.83	PPBV		99
64) cis-1,3-DICHLOROPROPENE	11.891	75	2238461	48.57	PPBV		98
65) TOLUENE	12.867	92	2742361	47.34	PPBV		99
66) trans-1,3-DICHLOROPROPENE	12.397	75	2191874	51.54	PPBV		99
67) 1,1,2-TRICHLOROETHANE	12.586	83	1352201	46.43	PPBV		99
69) 2-HEXANONE	13.092	58	1316299	35.18	PPBV		95
70) ETHYL METHACRYLATE	13.092	69	2174614	37.77	PPBV		98
71) TETRACHLOROETHYLENE	14.019	164	2014805	34.49	PPBV		98
72) DIBROMOCHLOROMETHANE	13.306	129	2782007	36.72	PPBV		100
73) 1,2-DIBROMOETHANE	13.556	107	2255469	38.88	PPBV		100
74) OCTANE	13.830	43	3420807	37.87	PPBV		99
75) 1,1,1,2-TETRACHLOROETHANE	14.702	131	1967575	36.84	PPBV		99
76) CHLOROBENZENE	14.726	112	3303352	36.40	PPBV		99
77) ETHYLBENZENE	15.110	91	5723966	38.06	PPBV		100
78) m,p-XYLENE	15.305	106	4279467	75.09	PPBV		98
79) o-XYLENE	15.811	106	2052295	36.79	PPBV		99
80) STYRENE	15.695	104	3113514	42.81	PPBV		99
81) NONANE	16.019	43	3144561	39.20	PPBV		99
82) BROMOFORM	15.409	173	2363575	37.74	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	15.805	83	2558665	37.04	PPBV		99
85) ISOPROPYLBENZENE	16.458	105	6014017	36.94	PPBV		99
86) BROMOBENZENE	16.573	156	1641413	38.56	PPBV		98
87) 2-CHLOROTOLUENE	16.982	126	1374601	39.10	PPBV	#	98
88) n-PROPYLBENZENE	17.006	120	1515536	39.75	PPBV		98
89) 4-ETHYLTOLUENE	17.159	105	5171395	41.53	PPBV		99
90) 1,3,5-TRIMETHYLBENZENE	17.244	105	4566525	38.93	PPBV		99
91) ALPHA-METHYLSTYRENE	17.415	118	2039408	44.73	PPBV		99
92) TERT-BUTYLBENZENE	17.683	134	1092089	39.28	PPBV		97
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	4283204	41.17	PPBV		97
94) m-DICHLOROBENZENE	17.860	146	2359895	43.85	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37431.D
Acq On : 20 Feb 2013 9:44 pm
Operator : YOUMINH
Sample : ic1568-40
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:57:18 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:50 2013
Response via : Initial Calibration

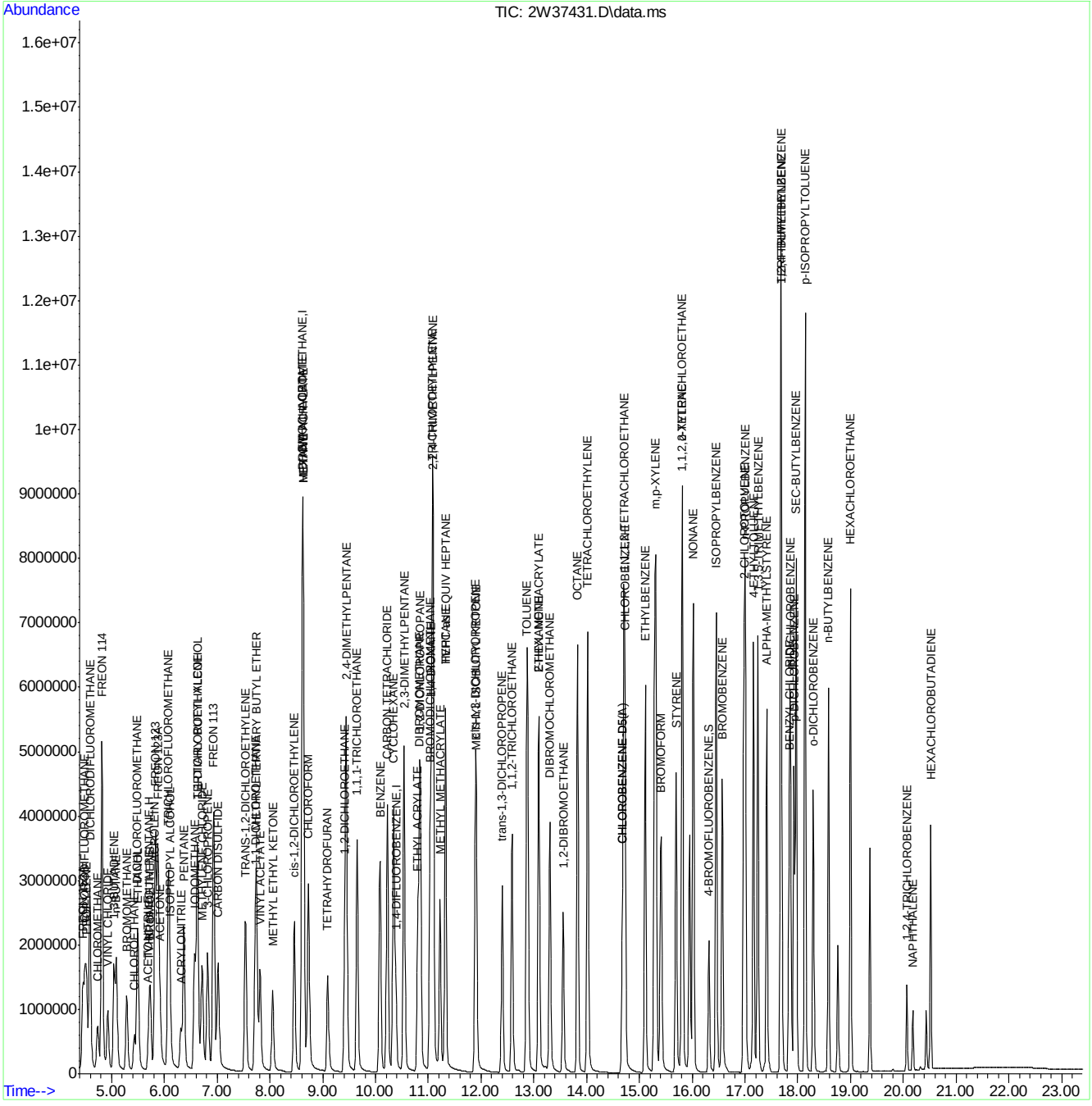
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.835	91	2880690	48.37	PPBV	100
96)	p-DICHLOROBENZENE	17.927	146	2248638	42.52	PPBV	99
97)	SEC-BUTYLBENZENE	17.969	134	1215320	40.18	PPBV	96
98)	p-ISOPROPYLTOLUENE	18.134	134	1203192	42.31	PPBV	95
99)	o-DICHLOROBENZENE	18.293	146	2023129	42.10	PPBV	100
100)	n-BUTYLBENZENE	18.579	91	3627380	48.54	PPBV	100
101)	HEXACHLOROETHANE	19.000	201	1405585	40.82	PPBV	100
102)	HEXACHLOROBUTADIENE	20.518	225	718333	36.47	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	20.067	180	425618	36.11	PPBV	100
105)	NAPHTHALENE	20.182	128	774739	37.56	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37431.D
Acq On : 20 Feb 2013 9:44 pm
Operator : YOUMINH
Sample : ic1568-40
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

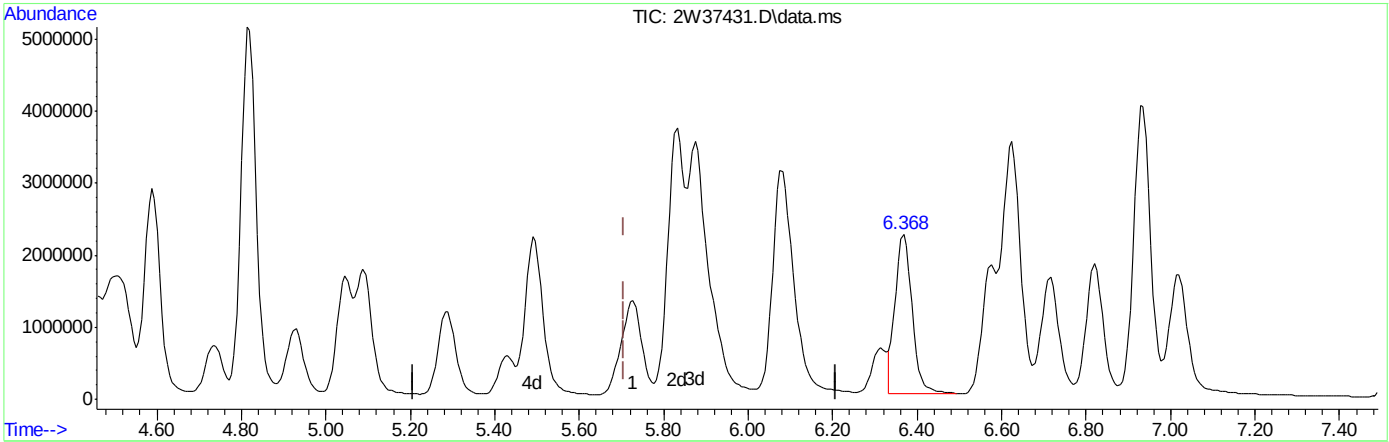
Quant Time: Feb 21 08:57:18 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:50 2013
Response via : Initial Calibration

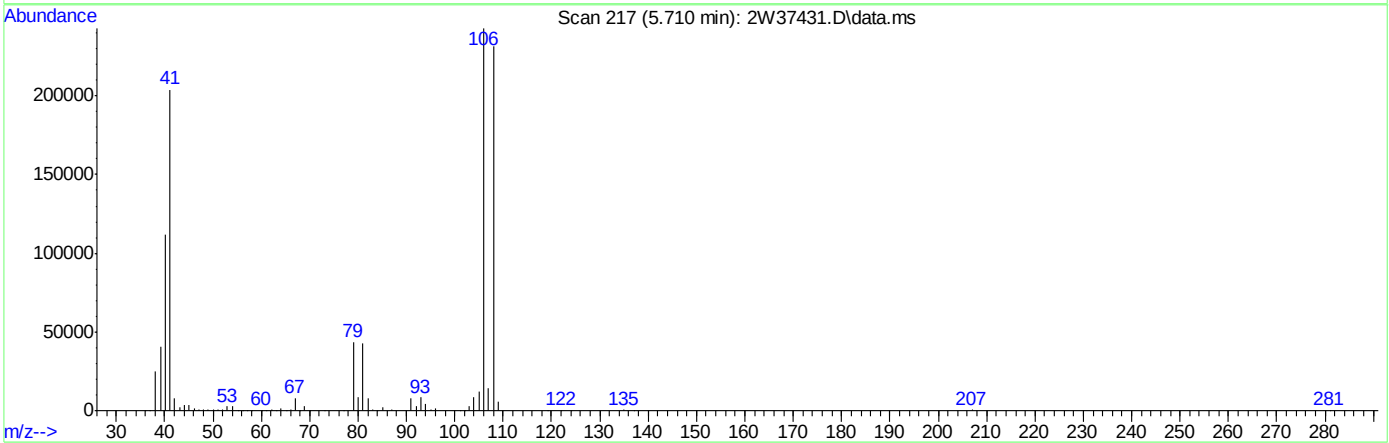


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37431.D
Acq On : 20 Feb 2013 9:44 pm
Operator : YOUMINH
Sample : ic1568-40
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:57:18 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 08:56:50 2013
Response via : Initial Calibration





TIC: 2W37431.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 35.79PPBV m

response 6098385

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	1.65#
0.00	1.00	1.39#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37434.D
Acq On : 20 Feb 2013 11:39 pm
Operator : YOUMINH
Sample : icv1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 16:57:49 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	239689	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.386	114	1076204	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.677	82	577442	10.00	PPBV		0.00
104) CHLOROBENZENE-D5(A)	14.677	82	577442	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	641252	10.90	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.00%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	1076690	10.84	PPBV		100
4) FREON 152A	4.454	65	236840	9.06	PPBV		99
5) CHLORODIFLUOROMETHANE	4.490	67	113124	11.00	PPBV		100
6) PROPYLENE	4.527	41	309509	11.23	PPBV		99
7) FREON 114	4.820	85	1170148	12.78	PPBV		94
8) CHLOROMETHANE	4.734	52	109782	10.93	PPBV		96
9) VINYL CHLORIDE	4.929	62	400644	11.23	PPBV		100
10) 1,3-BUTADIENE	5.045	54	312178	11.99	PPBV		98
11) n-BUTANE	5.094	43	607925	11.61	PPBV		99
12) BROMOMETHANE	5.289	94	347444	11.49	PPBV		100
13) CHLOROETHANE	5.429	64	213394	11.46	PPBV		98
14) DICHLOROFLUOROMETHANE	5.496	67	852696	11.49	PPBV		100
15) ACROLEIN	5.813	56	81575	9.76	PPBV		99
16) FREON 123	5.832	83	751827	11.59	PPBV	#	100
17) FREON 123A	5.880	117	425420	11.80	PPBV		96
18) TRICHLOROFLUOROMETHANE	6.075	101	959580	11.07	PPBV		99
19) ISOPROPYL ALCOHOL	6.100	45	443440	9.81	PPBV		99
20) ACETONE	5.917	58	87093	7.61	PPBV		96
21) PENTANE	6.368	42	336965	11.35	PPBV		99
22) ACRYLONITRILE	6.313	53	164451	10.96	PPBV		99
23) TVHC as EQUIV PENTANE	5.708	TIC	1674099m	11.48	PPBV		
24) IODOMETHANE	6.575	142	778552	11.55	PPBV		99
25) 1,1-DICHLOROETHYLENE	6.624	96	345265	12.62	PPBV		96
26) CARBON DISULFIDE	7.020	76	952213	11.00	PPBV		99
27) ETHANOL	5.502	45	93669	10.08	PPBV		98
28) BROMOETHENE	5.728	106	337491	11.49	PPBV		99
29) ACETONITRILE	5.697	41	143140	10.36	PPBV		99
30) METHYLENE CHLORIDE	6.716	84	292531	11.26	PPBV		100
31) 3-CHLOROPROPENE	6.819	76	127432	10.91	PPBV		97
32) FREON 113	6.935	151	540171	12.89	PPBV		99
33) TRANS-1,2-DICHLOROETHY...	7.539	96	343497	10.79	PPBV		99
34) TERTIARY BUTYL ALCOHOL	6.624	59	651643	9.98	PPBV		100
35) METHYL TERTIARY BUTYL ...	7.752	73	582180	8.27	PPBV		99
36) TETRAHYDROFURAN	9.099	72	93620	8.22	PPBV		97
37) HEXANE	8.630	57	587336	11.38	PPBV		97
38) VINYL ACETATE	7.813	86	48522	9.46	PPBV		99
39) 1,1-DICHLOROETHANE	7.715	63	555957	11.10	PPBV		100
40) METHYL ETHYL KETONE	8.051	72	95981	8.34	PPBV		96
41) cis-1,2-DICHLOROETHYLENE	8.459	96	315347	10.76	PPBV		97

Data Path : C:\msdchem\1\DATA\
Data File : 2W37434.D
Acq On : 20 Feb 2013 11:39 pm
Operator : YOUMINH
Sample : icv1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 16:57:49 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.618	61	72683	9.80	PPBV	#	94
43) METHYL ACRYLATE	8.630	55	411371	8.90	PPBV		98
44) CHLOROFORM	8.727	83	687782	11.09	PPBV		99
45) 2,4-DIMETHYLPENTANE	9.441	57	721279	11.24	PPBV		99
46) 1,1,1-TRICHLOROETHANE	9.648	97	695314	11.04	PPBV		99
47) CARBON TETRACHLORIDE	10.221	117	845379	11.49	PPBV		100
48) 1,2-DICHLOROETHANE	9.410	62	379997	10.35	PPBV		100
50) BENZENE	10.081	78	871066	11.70	PPBV		99
51) CYCLOHEXANE	10.343	84	511044	11.63	PPBV		97
52) 2,3-DIMETHYLPENTANE	10.538	71	270895	12.69	PPBV		99
53) DIBROMOMETHANE	10.831	174	359907	11.83	PPBV		99
54) TRICHLOROETHYLENE	11.068	95	445121	11.42	PPBV		100
55) 1,2-DICHLOROPROPANE	10.849	63	307298	11.09	PPBV		99
56) ETHYL ACRYLATE	10.794	55	431131	8.90	PPBV	#	97
57) BROMODICHLOROMETHANE	11.032	83	732595	11.98	PPBV		99
58) 2,2,4-TRIMETHYLPENTANE	11.087	57	1684645	12.11	PPBV		99
59) 1,4-DIOXANE	11.062	88	150071	11.00	PPBV	#	81
60) METHYL METHACRYLATE	11.221	69	213381	8.99	PPBV		97
61) HEPTANE	11.324	43	628768	12.34	PPBV		97
62) TVHC as EQUIV HEPTANE	11.324	TIC	3180574	12.57	PPBV		100
63) METHYL ISOBUTYL KETONE	11.904	58	180409	9.22	PPBV		98
64) cis-1,3-DICHLOROPROPENE	11.891	75	451260	11.52	PPBV		95
65) TOLUENE	12.867	92	550638	11.25	PPBV		99
66) trans-1,3-DICHLOROPROPENE	12.397	75	397947	10.79	PPBV		98
67) 1,1,2-TRICHLOROETHANE	12.580	83	278696	11.32	PPBV		99
69) 2-HEXANONE	13.092	58	223793	9.02	PPBV		98
70) ETHYL METHACRYLATE	13.086	69	345417	8.97	PPBV		99
71) TETRACHLOROETHYLENE	14.019	164	452891	10.53	PPBV		99
72) DIBROMOCHLOROMETHANE	13.300	129	611590	12.08	PPBV		100
73) 1,2-DIBROMOETHANE	13.550	107	443192	11.30	PPBV		99
74) OCTANE	13.824	43	728292	12.07	PPBV		99
75) 1,1,1,2-TETRACHLOROETHANE	14.702	131	422059	11.75	PPBV		100
76) CHLOROBENZENE	14.720	112	689905	11.25	PPBV		99
77) ETHYLBENZENE	15.104	91	1118407	11.10	PPBV		100
78) m,p-XYLENE	15.299	106	837959	22.04	PPBV		99
79) o-XYLENE	15.811	106	407807	11.07	PPBV		99
80) STYRENE	15.689	104	567904	11.81	PPBV		99
81) NONANE	16.019	43	658659	12.43	PPBV		98
82) BROMOFORM	15.403	173	514199	12.30	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	511021	11.03	PPBV		99
85) ISOPROPYLBENZENE	16.451	105	1196643	11.00	PPBV		100
86) BROMOBENZENE	16.567	156	339757	11.87	PPBV		98
87) 2-CHLOROTOLUENE	16.976	126	279832	11.95	PPBV	#	97
88) n-PROPYLBENZENE	17.000	120	290103	11.57	PPBV		96
89) 4-ETHYLTOLUENE	17.159	105	950692	11.62	PPBV		99
90) 1,3,5-TRIMETHYLBENZENE	17.238	105	841203	10.93	PPBV		100
91) ALPHA-METHYLSTYRENE	17.409	118	361501	11.56	PPBV		99
92) TERT-BUTYLBENZENE	17.677	134	208719	11.48	PPBV		99
93) 1,2,4-TRIMETHYLBENZENE	17.683	105	773237	11.35	PPBV		96
94) m-DICHLOROBENZENE	17.854	146	430327	11.77	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37434.D
Acq On : 20 Feb 2013 11:39 pm
Operator : YOUMINH
Sample : icv1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 16:57:49 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

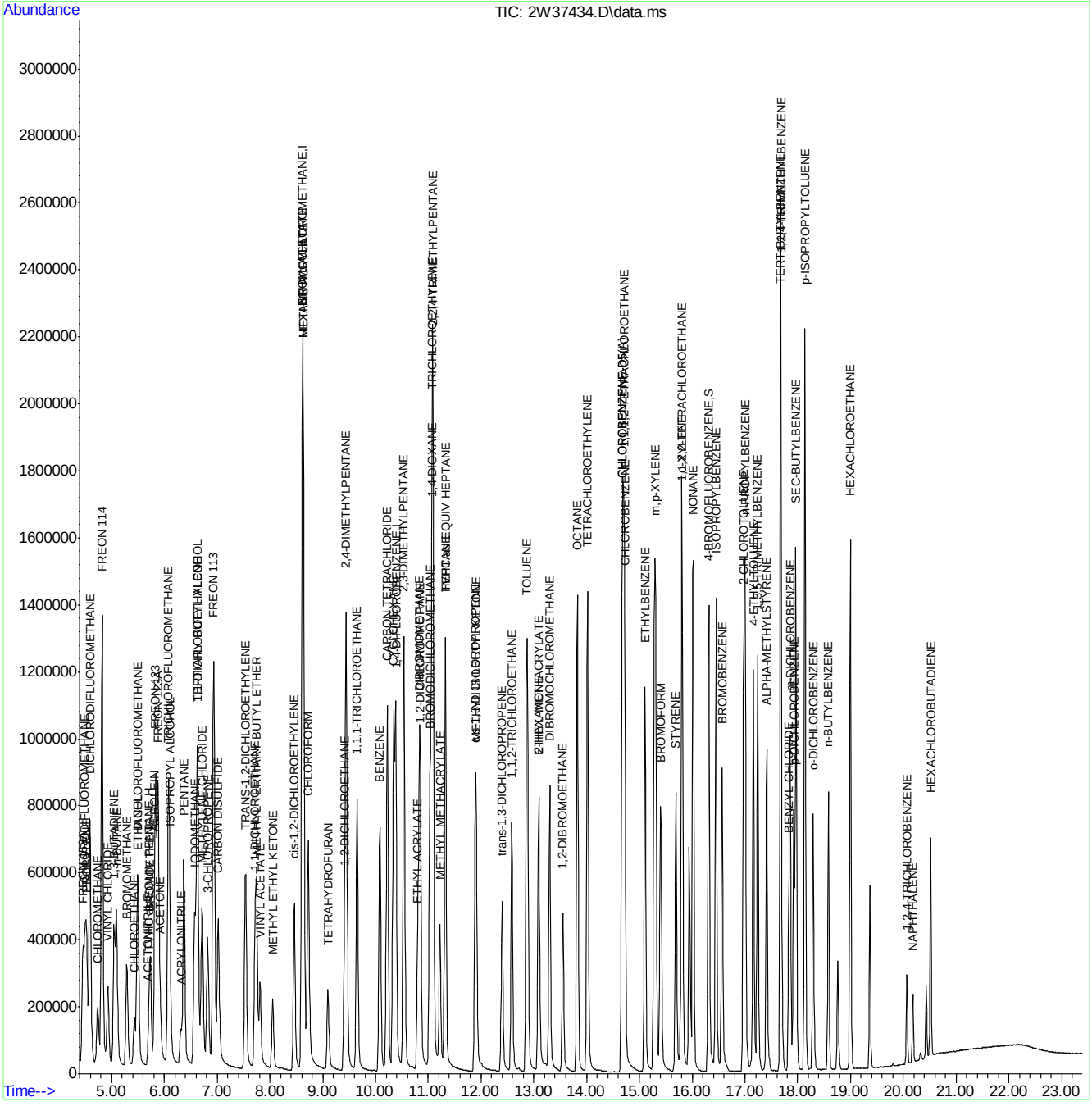
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.829	91	417729	10.24	PPBV	100
96)	p-DICHLOROBENZENE	17.927	146	402628	11.17	PPBV	99
97)	SEC-BUTYLBENZENE	17.963	134	237982	12.09	PPBV	99
98)	p-ISOPROPYLTOLUENE	18.134	134	216620	11.67	PPBV	99
99)	o-DICHLOROBENZENE	18.293	146	373031	11.49	PPBV	100
100)	n-BUTYLBENZENE	18.579	91	512835	10.24	PPBV	99
101)	HEXACHLOROETHANE	19.000	201	306398	13.15	PPBV	99
102)	HEXACHLOROBUTADIENE	20.518	225	127098	9.69	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	20.067	180	88725	11.32	PPBV	99
105)	NAPHTHALENE	20.182	128	170033	12.33	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37434.D
Acq On : 20 Feb 2013 11:39 pm
Operator : YOUMINH
Sample : icv1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 3 Sample Multiplier: 1

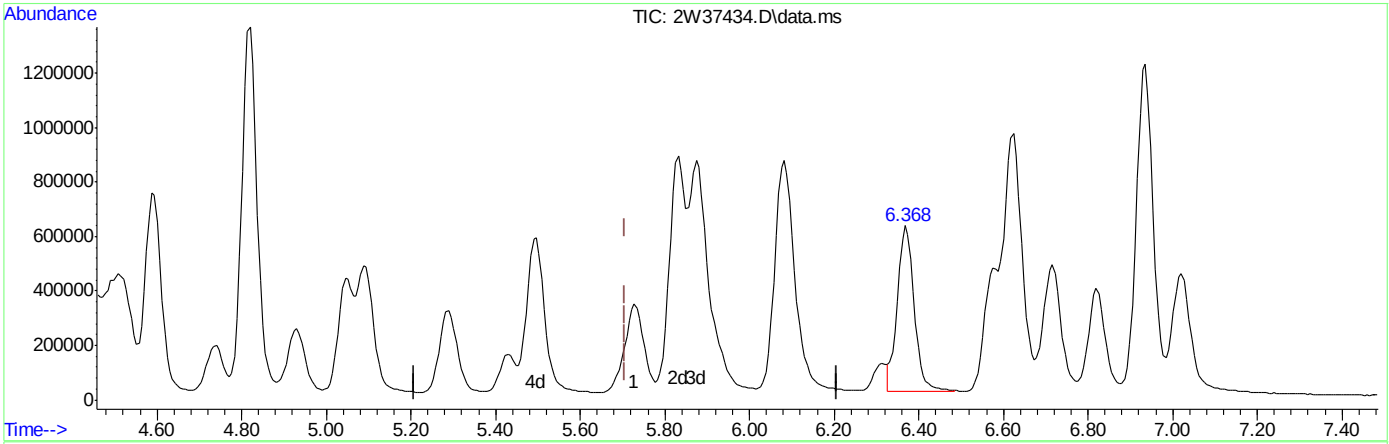
Quant Time: Feb 21 16:57:49 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\v2w1568\
Data File : 2W37434.D
Acq On : 20 Feb 2013 11:39 pm
Operator : YOUMINH
Sample : icv1568-10
Misc : MS42049,V2W1568,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 16:57:49 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration



TIC: 2W37434.D\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 11.48PPBV m

response 1674099

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	1.31#
0.00	1.00	1.11#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37577.D
Acq On : 28 Feb 2013 9:23 am
Operator : YOUMINH
Sample : cc1568-10
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:09:17 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	8.618	128	221305	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	10.380	114	947406	10.00	PPBV		0.00
68) CHLOROBENZENE-D5	14.671	82	473177	10.00	PPBV		0.00
104) CHLOROBENZENE-D5(A)	14.671	82	473177	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	16.311	95	514868	10.68	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.80%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.588	85	800159	8.72	PPBV		100
4) FREON 152A	4.454	65	187090	7.75	PPBV		95
5) CHLORODIFLUOROMETHANE	4.491	67	82711	8.71	PPBV		99
6) PROPYLENE	4.527	41	206051	8.09	PPBV		96
7) FREON 114	4.814	85	729275	8.63	PPBV		96
8) CHLOROMETHANE	4.734	52	71850	7.75	PPBV		95
9) VINYL CHLORIDE	4.929	62	278274	8.44	PPBV		99
10) 1,3-BUTADIENE	5.045	54	212998	8.86	PPBV		98
11) n-BUTANE	5.088	43	384433	7.95	PPBV		97
12) BROMOMETHANE	5.283	94	269217	9.64	PPBV		99
13) CHLOROETHANE	5.429	64	156970	9.13	PPBV		99
14) DICHLOROFLUOROMETHANE	5.490	67	664485	9.70	PPBV		99
15) ACROLEIN	5.813	56	66968	8.68	PPBV		98
16) FREON 123	5.826	83	650851	10.87	PPBV	#	99
17) FREON 123A	5.874	117	374259	11.24	PPBV		98
18) TRICHLOROFLUOROMETHANE	6.076	101	828635	10.36	PPBV		100
19) ISOPROPYL ALCOHOL	6.112	45	396385	9.50	PPBV		97
20) ACETONE	5.923	58	84195	7.97	PPBV	#	85
21) PENTANE	6.368	42	289538	10.56	PPBV		97
22) ACRYLONITRILE	6.313	53	145745	10.52	PPBV		100
23) TVHC as EQUIV PENTANE	5.708	TIC	1500746m	11.15	PPBV		
24) IODOMETHANE	6.569	142	620715	9.98	PPBV		94
25) 1,1-DICHLOROETHYLENE	6.618	96	243314	9.63	PPBV		96
26) CARBON DISULFIDE	7.014	76	836974	10.47	PPBV		98
27) ETHANOL	5.509	45	76464	8.91	PPBV		92
28) BROMOETHENE	5.728	106	274459	10.12	PPBV		99
29) ACETONITRILE	5.704	41	118666	9.30	PPBV		98
30) METHYLENE CHLORIDE	6.710	84	226334	9.44	PPBV		96
31) 3-CHLOROPROPENE	6.819	76	119182	11.05	PPBV		92
32) FREON 113	6.929	151	399901	10.34	PPBV		99
33) TRANS-1,2-DICHLOROETHY...	7.533	96	294657	10.02	PPBV		94
34) TERTIARY BUTYL ALCOHOL	6.630	59	598497	9.93	PPBV		94
35) METHYL TERTIARY BUTYL ...	7.752	73	560791	8.63	PPBV		99
36) TETRAHYDROFURAN	9.105	72	91450	8.70	PPBV	#	91
37) HEXANE	8.630	57	500966	10.51	PPBV		96
38) VINYL ACETATE	7.813	86	47775	10.09	PPBV	#	82
39) 1,1-DICHLOROETHANE	7.716	63	446537	9.66	PPBV		99
40) METHYL ETHYL KETONE	8.051	72	89612	8.43	PPBV	#	85
41) cis-1,2-DICHLOROETHYLENE	8.459	96	275094	10.17	PPBV		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37577.D
Acq On : 28 Feb 2013 9:23 am
Operator : YOUMINH
Sample : cc1568-10
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:09:17 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) ETHYL ACETATE	8.624	61	69325	10.13	PPBV	#	76
43) METHYL ACRYLATE	8.630	55	383810	9.00	PPBV		97
44) CHLOROFORM	8.728	83	617970	10.79	PPBV		99
45) 2,4-DIMETHYLPENTANE	9.441	57	590720	9.97	PPBV		97
46) 1,1,1-TRICHLOROETHANE	9.648	97	592908	10.20	PPBV		99
47) CARBON TETRACHLORIDE	10.221	117	690597	10.16	PPBV		99
48) 1,2-DICHLOROETHANE	9.410	62	313638	9.25	PPBV		99
50) BENZENE	10.081	78	726959	11.09	PPBV		98
51) CYCLOHEXANE	10.337	84	421469	10.89	PPBV		96
52) 2,3-DIMETHYLPENTANE	10.532	71	221254	11.77	PPBV		98
53) DIBROMOMETHANE	10.825	174	279810	10.45	PPBV		96
54) TRICHLOROETHYLENE	11.069	95	395141	11.51	PPBV		98
55) 1,2-DICHLOROPROPANE	10.849	63	252376	10.34	PPBV		100
56) ETHYL ACRYLATE	10.800	55	387493	9.09	PPBV		98
57) BROMODICHLOROMETHANE	11.032	83	596899	11.09	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.081	57	1458586	11.91	PPBV		98
59) 1,4-DIOXANE	11.069	88	119870	9.98	PPBV	#	1
60) METHYL METHACRYLATE	11.221	69	198434	9.50	PPBV		93
61) HEPTANE	11.318	43	540385	12.05	PPBV		96
62) TVHC as EQUIV HEPTANE	11.318	TIC	2807919	12.60	PPBV		100
63) METHYL ISOBUTYL KETONE	11.910	58	170895	9.92	PPBV		94
64) cis-1,3-DICHLOROPROPENE	11.885	75	355932	10.32	PPBV		98
65) TOLUENE	12.861	92	455667	10.57	PPBV		98
66) trans-1,3-DICHLOROPROPENE	12.398	75	317905	9.80	PPBV		97
67) 1,1,2-TRICHLOROETHANE	12.580	83	224762	10.37	PPBV		100
69) 2-HEXANONE	13.093	58	213744	10.52	PPBV		97
70) ETHYL METHACRYLATE	13.086	69	340673	10.79	PPBV		99
71) TETRACHLOROETHYLENE	14.013	164	356308	10.11	PPBV		99
72) DIBROMOCHLOROMETHANE	13.294	129	473913	11.43	PPBV		100
73) 1,2-DIBROMOETHANE	13.550	107	353282	10.99	PPBV		100
74) OCTANE	13.824	43	564410	11.42	PPBV		98
75) 1,1,1,2-TETRACHLOROETHANE	14.696	131	321552	10.92	PPBV		98
76) CHLOROBENZENE	14.720	112	558655	11.12	PPBV		99
77) ETHYLBENZENE	15.104	91	879731	10.65	PPBV		100
78) m,p-XYLENE	15.293	106	687932	22.08	PPBV		98
79) o-XYLENE	15.805	106	337827	11.20	PPBV		97
80) STYRENE	15.690	104	466034	11.83	PPBV		98
81) NONANE	16.013	43	523288	12.05	PPBV		97
82) BROMOFORM	15.397	173	370473	10.82	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	15.799	83	446929	11.77	PPBV		99
85) ISOPROPYLBENZENE	16.446	105	950002	10.66	PPBV		99
86) BROMOBENZENE	16.561	156	249112	10.62	PPBV		98
87) 2-CHLOROTOLUENE	16.970	126	207393	10.81	PPBV	#	100
88) n-PROPYLBENZENE	17.000	120	230793	11.23	PPBV		97
89) 4-ETHYLTOLUENE	17.153	105	773783	11.54	PPBV		100
90) 1,3,5-TRIMETHYLBENZENE	17.232	105	697876	11.06	PPBV		99
91) ALPHA-METHYLSTYRENE	17.409	118	292476	11.41	PPBV		100
92) TERT-BUTYLBENZENE	17.671	134	166337	11.16	PPBV		96
93) 1,2,4-TRIMETHYLBENZENE	17.677	105	660011	11.82	PPBV		99
94) m-DICHLOROBENZENE	17.854	146	348135	11.62	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37577.D
Acq On : 28 Feb 2013 9:23 am
Operator : YOUMINH
Sample : cc1568-10
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:09:17 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

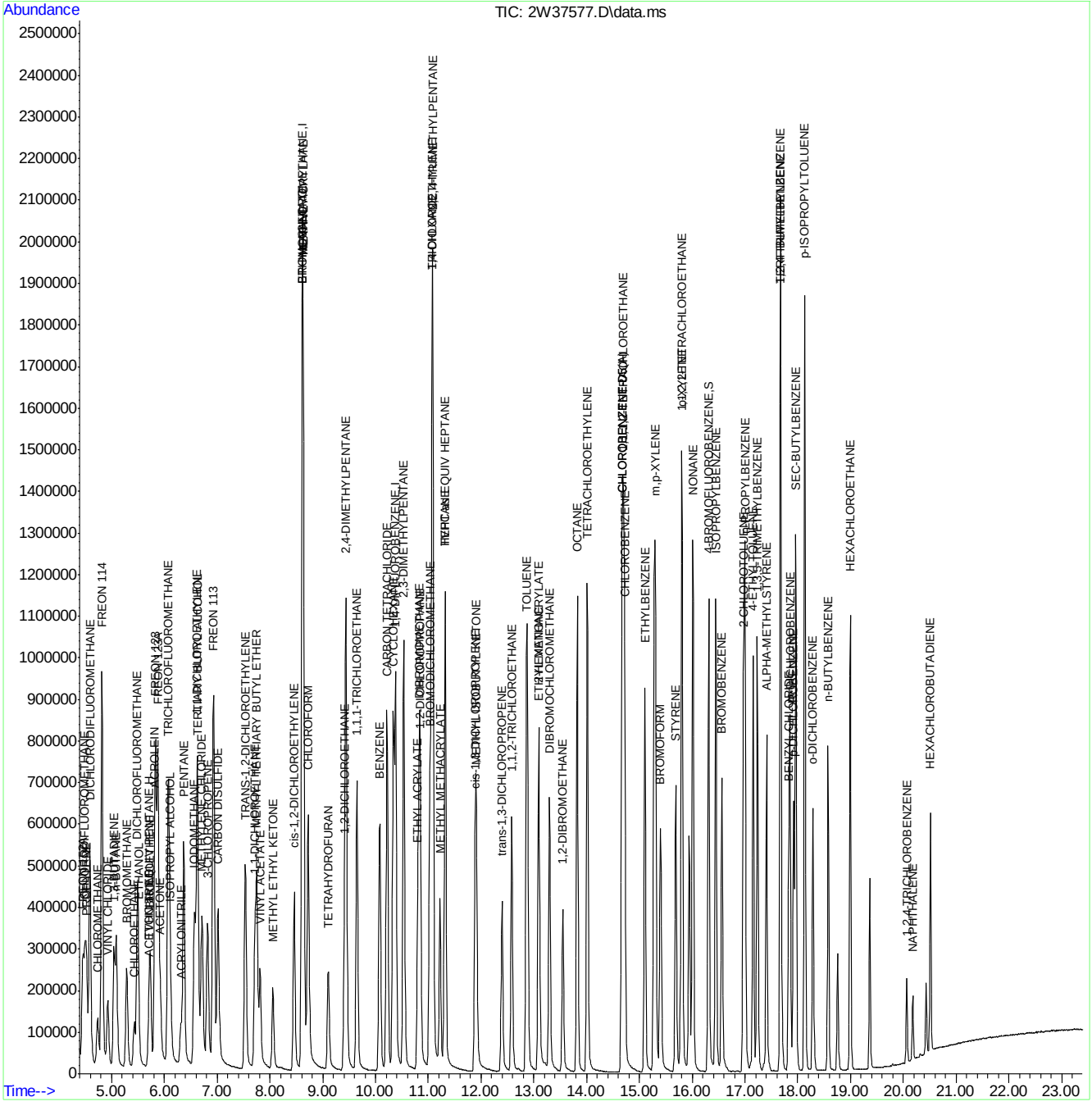
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	BENZYL CHLORIDE	17.829	91	382914	11.46	PPBV	99
96)	p-DICHLOROBENZENE	17.921	146	323833	10.97	PPBV	99
97)	SEC-BUTYLBENZENE	17.964	134	189747	11.76	PPBV	94
98)	p-ISOPROPYLTOLUENE	18.128	134	182351	11.99	PPBV	95
99)	o-DICHLOROBENZENE	18.287	146	302298	11.36	PPBV	99
100)	n-BUTYLBENZENE	18.573	91	490296	11.94	PPBV	99
101)	HEXACHLOROETHANE	18.994	201	209681	10.98	PPBV	94
102)	HEXACHLOROBUTADIENE	20.512	225	106635	9.92	PPBV	99
103)	1,2,4-TRICHLOROBENZENE	20.067	180	67607	10.52	PPBV	98
105)	NAPHTHALENE	20.177	128	128384	11.36	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2W37577.D
Acq On : 28 Feb 2013 9:23 am
Operator : YOUMINH
Sample : cc1568-10
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

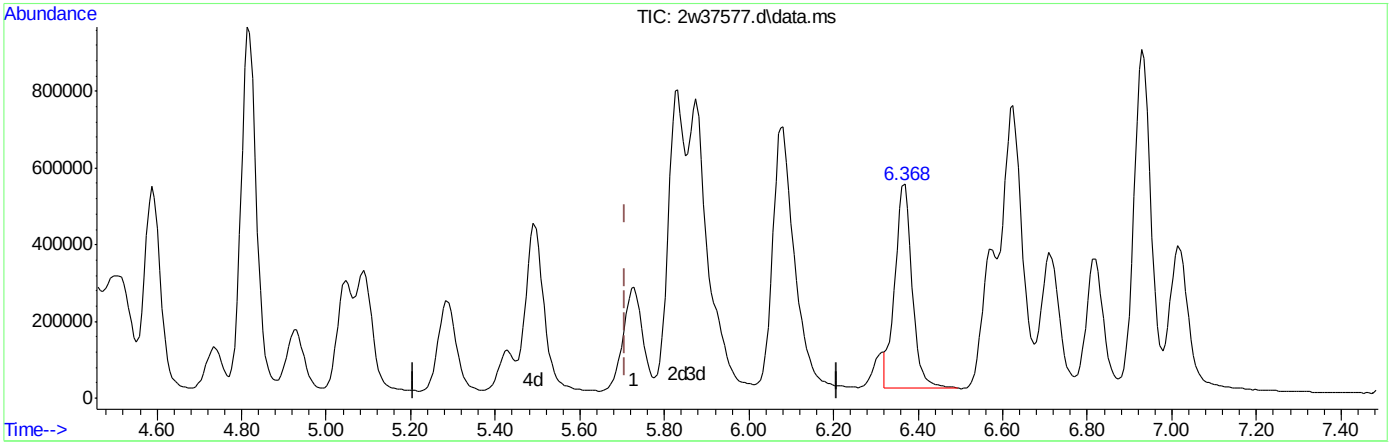
Quant Time: Mar 01 09:09:17 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration

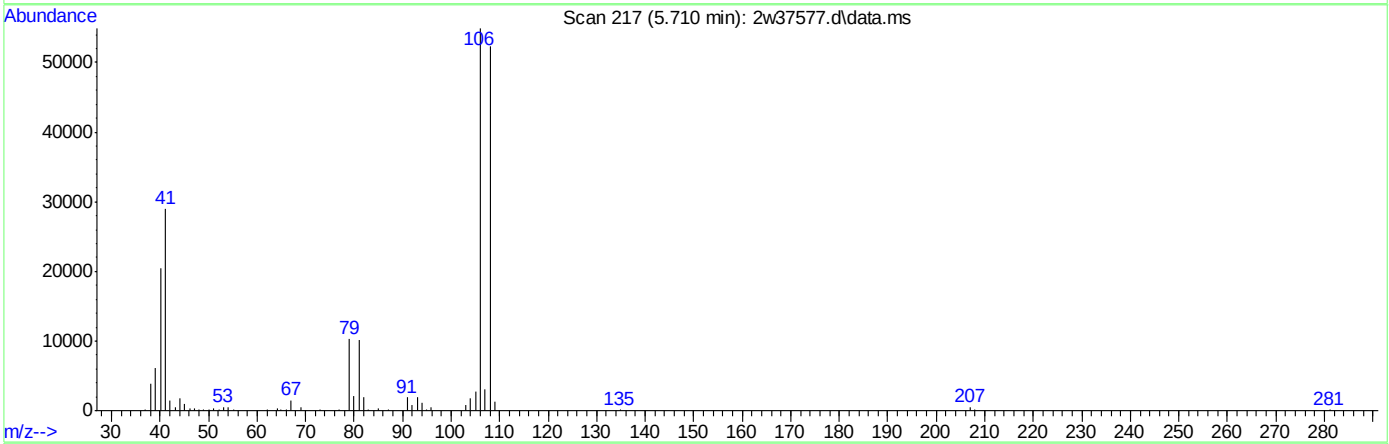


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\v2w\
Data File : 2w37577.d
Acq On : 28 Feb 2013 9:23 am
Operator : YOUMINH
Sample : cc1568-10
Misc : MS43676,V2W1574,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:09:17 2013
Quant Method : C:\msdchem\1\METHODS\M2W1568.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Thu Feb 21 09:17:16 2013
Response via : Initial Calibration





TIC: 2w37577.d\data.ms

(23) TVHC as EQUIV PENTANE (H)

5.708min (0.000) 11.15PPBV m

response 1500746

Signal	Exp%	Act%
TIC	100	100
0.00	1.10	0.00
0.00	1.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31647.D Vial: 20
Acq On : 10 Jan 2013 7:13 pm Operator: yunxiac
Sample : IC1230-0.5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:09 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	110876	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	554161	10.00	PPBV	-0.01
68) CHLOROBENZENE-D5	13.15	82	241741	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	242172	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.78	95	234910	8.85	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 88.50%			
Target Compounds						Qvalue
3) FREON 152A	4.33	65	6309	0.63	PPBV	93
4) CHLORODIFLUOROMETHANE	4.34	67	2053	0.56	PPBV	94
5) DICHLORODIFLUOROMETHANE	4.41	85	19724	0.56	PPBV	98
6) PROPYLENE	4.37	41	7093	0.54	PPBV	98
7) FREON 114	4.55	85	22901	0.54	PPBV	99
8) CHLOROMETHANE	4.50	50	9347	0.53	PPBV	91
9) VINYL CHLORIDE	4.62	62	8305	0.49	PPBV	97
10) 1,3-BUTADIENE	4.69	54	6102	0.49	PPBV	92
11) n-BUTANE	4.72	43	13716	0.50	PPBV	98
12) BROMOMETHANE	4.87	94	7748	0.52	PPBV	96
13) CHLOROETHANE	4.95	64	4376	0.48	PPBV	93
14) DICHLOROFLUOROMETHANE	5.00	67	17735	0.50	PPBV	99
15) ACETONITRILE	5.20	41	4775	0.41	PPBV #	43
16) FREON 123	5.22	83	18535	0.50	PPBV	99
17) FREON 123A	5.26	117	10710	0.52	PPBV	96
18) TRICHLOROFLUOROMETHANE	5.40	101	18727	0.51	PPBV	97
19) ISOPROPYL ALCOHOL	5.48	45	13839	0.50	PPBV	92
20) ACETONE	5.32	58	3285	0.45	PPBV	92
21) PENTANE	5.57	42	8459	0.48	PPBV	95
22) TVHC as EQUIV PENTANE	5.57	TIC	48231m	0.48	PPBV	
23) IODOMETHANE	5.75	142	19795	0.50	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.79	96	7895	0.50	PPBV	97
25) CARBON DISULFIDE	6.07	76	22568	0.52	PPBV #	88
26) ETHANOL	5.06	45	3214	0.49	PPBV #	95
27) BROMOETHENE	5.16	106	7985	0.52	PPBV	95
28) ACRYLONITRILE	5.62	52	3331	0.35	PPBV	92
29) METHYLENE CHLORIDE	5.87	84	8328	0.62	PPBV	96
30) 3-CHLOROPROPENE	5.93	76	3269	0.45	PPBV	93
31) FREON 113	6.01	151	12887	0.50	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	7128	0.48	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.84	59	15657	0.49	PPBV	98
34) METHYL TERTIARY BUTYL ETHE	6.65	73	20041	0.46	PPBV	98
35) TETRAHYDROFURAN	7.84	72	3230	0.43	PPBV #	89
36) HEXANE	7.33	57	12067	0.47	PPBV	98
37) VINYL ACETATE	6.73	86	1249	0.37	PPBV #	92
38) 1,1-DICHLOROETHANE	6.63	63	14787	0.48	PPBV	99
39) METHYL ETHYL KETONE	6.94	72	2735	0.37	PPBV #	84
40) cis-1,2-DICHLOROETHYLENE	7.28	96	7351	0.46	PPBV	98
41) DIISOPROPYL ETHER	7.35	45	27314	0.45	PPBV	96
42) ETHYL ACETATE	7.42	61	2666	0.47	PPBV #	83
43) METHYL ACRYLATE	7.43	55	10011	0.38	PPBV #	79
44) CHLOROFORM	7.48	83	15833	0.50	PPBV #	80
45) 2,4-DIMETHYLPENTANE	8.03	57	15024	0.46	PPBV	97
46) 1,1,1-TRICHLOROETHANE	8.28	97	15184	0.49	PPBV	99
47) CARBON TETRACHLORIDE	8.82	117	15654	0.49	PPBV	98
48) 1,2-DICHLOROETHANE	8.07	62	8395	0.45	PPBV	98
50) BENZENE	8.69	78	22862	0.46	PPBV	100
51) CYCLOHEXANE	8.86	84	12388	0.47	PPBV	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31647.D Vial: 20
Acq On : 10 Jan 2013 7:13 pm Operator: yunxiac
Sample : IC1230-0.5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:09 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W2

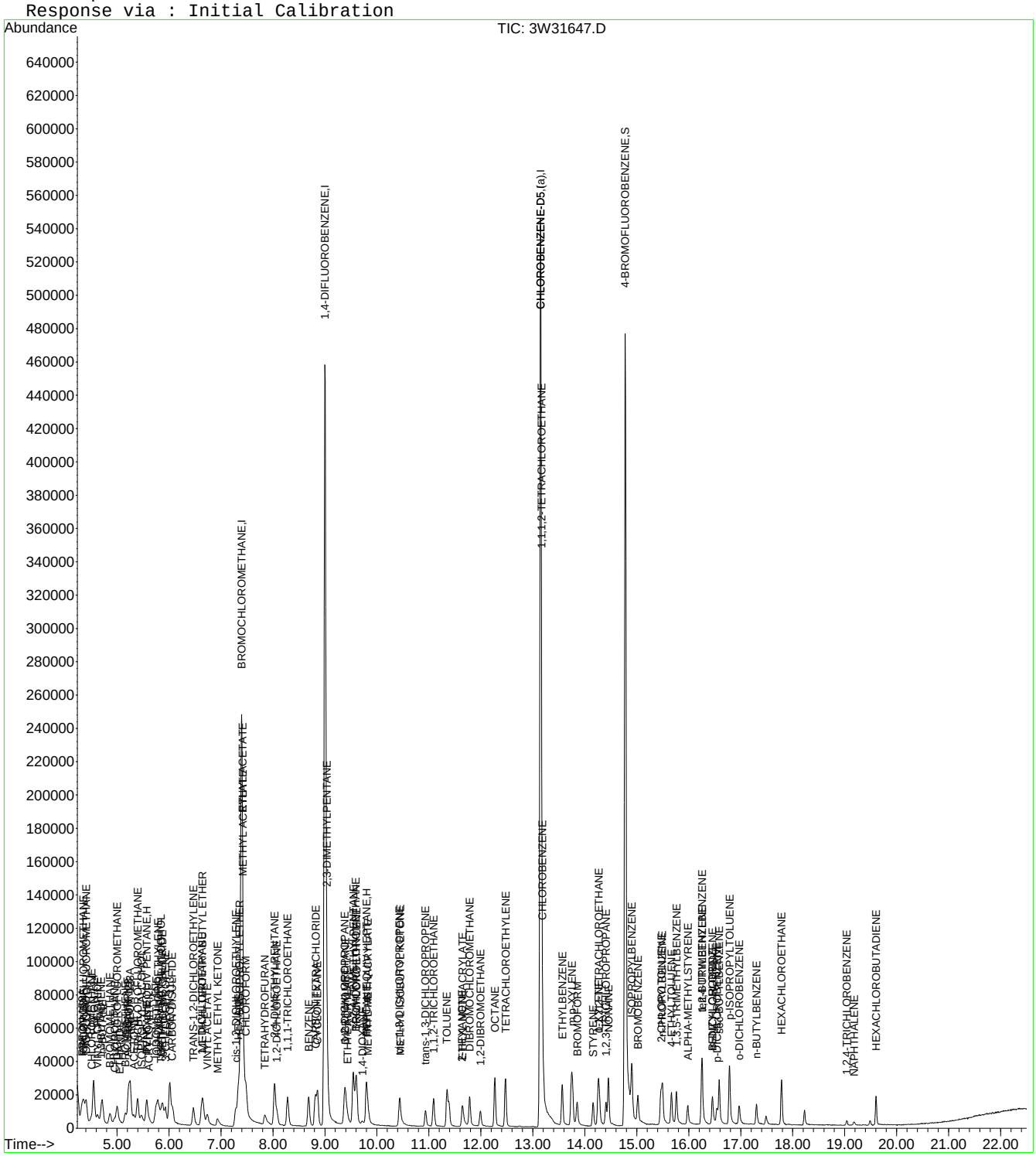
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	2,3-DIMETHYLPENTANE	9.04	71	5902	0.51	PPBV	#	27
53)	TRICHLOROETHYLENE	9.61	95	9359	0.48	PPBV		97
54)	1,2-DICHLOROPROPANE	9.38	63	8457	0.43	PPBV		97
55)	DIBROMOMETHANE	9.40	174	7817	0.44	PPBV		94
56)	ETHYL ACRYLATE	9.44	55	13548	0.40	PPBV	#	93
57)	BROMODICHLOROMETHANE	9.59	83	15093	0.45	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.55	57	39223	0.47	PPBV		98
59)	1,4-DIOXANE	9.72	88	3335	0.34	PPBV		93
60)	HEPTANE	9.80	43	14912	0.46	PPBV		97
61)	TVHC as EQUIV HEPTANE	9.80	TIC	89724m	0.44	PPBV		
62)	METHYL METHACRYLATE	9.83	69	6517	0.38	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.45	58	4110	0.32	PPBV	#	88
64)	cis-1,3-DICHLOROPROPENE	10.43	75	10385	0.41	PPBV		99
65)	TOLUENE	11.35	92	13509	0.42	PPBV		100
66)	trans-1,3-DICHLOROPROPENE	10.93	75	7884	0.36	PPBV		98
67)	1,1,2-TRICHLOROETHANE	11.09	83	6894	0.42	PPBV		100
69)	2-HEXANONE	11.63	58	4690	0.34	PPBV	#	70
70)	ETHYL METHACRYLATE	11.65	69	8801	0.39	PPBV		91
71)	TETRACHLOROETHYLENE	12.48	164	9656	0.55	PPBV		97
72)	DIBROMOCHLOROMETHANE	11.78	129	12480	0.47	PPBV		99
73)	1,2-DIBROMOETHANE	11.99	107	9275	0.45	PPBV		99
74)	OCTANE	12.27	43	17973	0.49	PPBV		99
75)	1,1,1,2-TETRACHLOROETHANE	13.17	131	9836	0.49	PPBV		99
76)	CHLOROBENZENE	13.19	112	15584	0.49	PPBV		95
77)	ETHYLBENZENE	13.57	91	25122	0.47	PPBV		97
78)	m,p-XYLENE	13.75	106	17746	0.89	PPBV		98
79)	o-XYLENE	14.25	106	9251	0.48	PPBV		96
80)	STYRENE	14.16	104	9756	0.37	PPBV		99
81)	NONANE	14.45	43	14570	0.43	PPBV		99
82)	BROMOFORM	13.85	173	9518	0.42	PPBV		98
84)	1,1,2,2-TETRACHLOROETHANE	14.27	83	12350	0.45	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.41	75	9627	0.46	PPBV		97
86)	ISOPROPYLBENZENE	14.91	105	26301	0.47	PPBV		98
87)	BROMOBENZENE	15.02	77	10833	0.46	PPBV		98
88)	2-CHLOROTOLUENE	15.47	126	5629	0.44	PPBV		95
89)	n-PROPYLBENZENE	15.50	120	5800	0.42	PPBV		97
90)	4-ETHYLTOLUENE	15.67	105	17683	0.40	PPBV		97
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	16003	0.41	PPBV		98
92)	ALPHA-METHYLSTYRENE	15.98	118	5293	0.32	PPBV		99
93)	tert-BUTYLBENZENE	16.25	134	4384	0.45	PPBV		99
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	14108	0.40	PPBV		91
95)	m-DICHLOROBENZENE	16.46	146	6969	0.37	PPBV		99
96)	BENZYL CHLORIDE	16.46	91	6634	0.29	PPBV		96
97)	p-DICHLOROBENZENE	16.55	146	6296	0.36	PPBV		96
98)	sec-BUTYLBENZENE	16.58	134	4535	0.41	PPBV	#	90
99)	p-ISOPROPYLTOLUENE	16.79	134	4357	0.38	PPBV		96
100)	o-DICHLOROBENZENE	16.97	146	7438	0.43	PPBV		98
101)	n-BUTYLBENZENE	17.30	134	2479	0.29	PPBV	#	90
102)	HEXACHLOROETHANE	17.78	117	6951	0.44	PPBV		95
103)	HEXACHLOROBUTADIENE	19.60	225	4176	0.44	PPBV		98
104)	1,2,4-TRICHLOROBENZENE	19.04	180	1302	0.35	PPBV		95
106)	NAPHTHALENE	19.18	128	2910	0.41	PPBV		93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31647.D Vial: 20
Acq On : 10 Jan 2013 7:13 pm Operator: yunxiac
Sample : IC1230-0.5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:54 2013 Quant Results File: M3W1230.RES

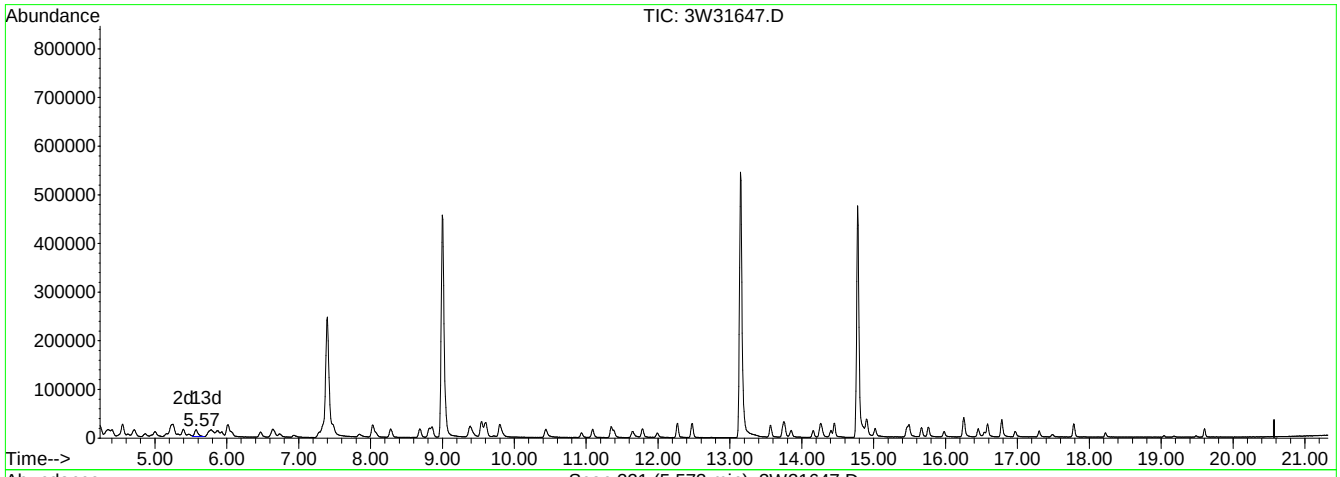
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31647.D Vial: 20
Acq On : 10 Jan 2013 7:13 pm Operator: yunxiac
Sample : IC1230-0.5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:54 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31647.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 0.48PPBV m

response 48231

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.58#
0.00	0.80	0.42#
0.00	0.00	0.00

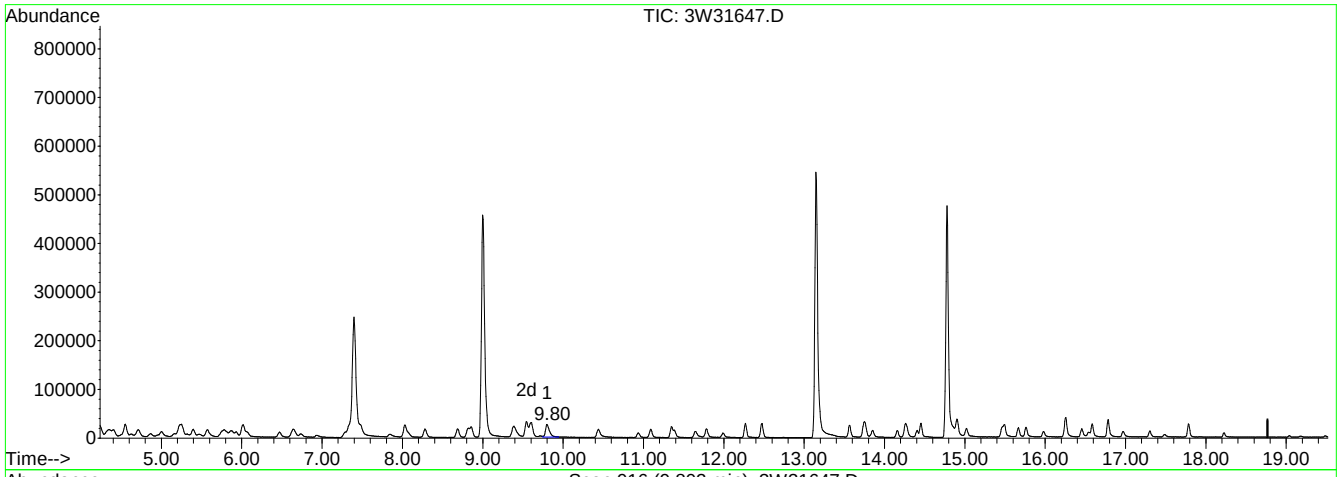
3W31647.D M3W1230.M Fri Jan 11 11:54:16 2013 MS3W

3W31647.D edits: TVHC as EQUIV PENTANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31647.D Vial: 20
Acq On : 10 Jan 2013 7:13 pm Operator: yunxiac
Sample : IC1230-0.5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:54 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31647.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 0.44PPBV m

response 89724

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.31#
0.00	0.40	0.23#
0.00	0.00	0.00

3W31647.D M3W1230.M Fri Jan 11 11:56:45 2013 MS3W

3W31647.D edits: TVHC as EQUIV HEPTANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 01/15/13 19:00

6.7.13

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:13 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	105893	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	520156	10.00	PPBV		-0.01
68) CHLOROBENZENE-D5	13.15	82	225525	10.00	PPBV		0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	226441	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	14.78	95	210936	8.52	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 85.20%				
Target Compounds							Qvalue
3) FREON 152A	4.33	65	2542	0.26	PPBV		92
4) CHLORODIFLUOROMETHANE	4.35	67	880	0.25	PPBV		90
5) DICHLORODIFLUOROMETHANE	4.41	85	7868	0.23	PPBV		97
6) PROPYLENE	4.37	41	3023	0.24	PPBV		98
7) FREON 114	4.55	85	9079	0.22	PPBV		98
8) CHLOROMETHANE	4.50	50	4134	0.25	PPBV		88
9) VINYL CHLORIDE	4.62	62	3489	0.21	PPBV		99
10) 1,3-BUTADIENE	4.70	54	2525	0.21	PPBV	#	88
11) n-BUTANE	4.72	43	5958	0.23	PPBV		94
12) BROMOMETHANE	4.86	94	3032	0.21	PPBV		91
13) CHLOROETHANE	4.96	64	1696	0.20	PPBV		95
14) DICHLOROFLUOROMETHANE	5.00	67	7113	0.21	PPBV		98
15) ACETONITRILE	5.22	41	1998	0.18	PPBV	#	40
16) FREON 123	5.23	83	7322	0.21	PPBV		97
17) FREON 123A	5.26	117	4179	0.21	PPBV		98
18) TRICHLOROFLUOROMETHANE	5.40	101	7269	0.21	PPBV		98
19) ISOPROPYL ALCOHOL	5.48	45	5760	0.22	PPBV		94
20) ACETONE	5.35	58	1359	0.20	PPBV	#	86
21) PENTANE	5.57	42	3392	0.20	PPBV		94
22) TVHC as EQUIV PENTANE	5.57	TIC	18717m	0.19	PPBV		
23) IODOMETHANE	5.75	142	7698	0.20	PPBV		98
24) 1,1-DICHLOROETHYLENE	5.79	96	3161	0.21	PPBV		99
25) CARBON DISULFIDE	6.07	76	9453	0.23	PPBV		99
26) ETHANOL	5.06	45	1642	0.26	PPBV	#	45
27) BROMOETHENE	5.17	106	2868	0.20	PPBV		93
28) ACRYLONITRILE	5.61	52	1249	0.14	PPBV		94
29) METHYLENE CHLORIDE	5.87	84	4165	0.33	PPBV		97
30) 3-CHLOROPROPENE	5.93	76	1333	0.19	PPBV		96
31) FREON 113	6.02	151	4906	0.20	PPBV		98
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	2832	0.20	PPBV		96
33) TERTIARY BUTYL ALCOHOL	5.84	59	6019	0.20	PPBV		95
34) METHYL TERTIARY BUTYL ETHE	6.67	73	7819	0.19	PPBV		99
35) TETRAHYDROFURAN	7.86	72	1075	0.15	PPBV		92
36) HEXANE	7.33	57	4827	0.19	PPBV		97
37) VINYL ACETATE	6.75	86	410	0.13	PPBV	#	1
38) 1,1-DICHLOROETHANE	6.63	63	5941	0.20	PPBV		97
39) METHYL ETHYL KETONE	6.95	72	1053m	0.15	PPBV		
40) cis-1,2-DICHLOROETHYLENE	7.29	96	2923	0.19	PPBV		98
41) DIISOPROPYL ETHER	7.36	45	10441	0.18	PPBV		97
42) ETHYL ACETATE	7.44	61	919	0.17	PPBV	#	81
43) METHYL ACRYLATE	7.44	55	3432	0.14	PPBV	#	77
44) CHLOROFORM	7.48	83	6226	0.21	PPBV	#	81
45) 2,4-DIMETHYLPENTANE	8.03	57	5986	0.19	PPBV		99
46) 1,1,1-TRICHLOROETHANE	8.29	97	6042	0.21	PPBV		98
47) CARBON TETRACHLORIDE	8.82	117	5881	0.19	PPBV		98
48) 1,2-DICHLOROETHANE	8.07	62	3342	0.19	PPBV		98
50) BENZENE	8.68	78	9251	0.20	PPBV		100
51) CYCLOHEXANE	8.86	84	4983	0.20	PPBV		98

(#) = qualifier out of range (m) = manual integration
3W31648.D M3W1230.M Fri Jan 11 11:55:50 2013 MS3W

ACCUTEST LABORATORIES
JB29729

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:13 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W2

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	2,3-DIMETHYLPENTANE	9.03	71	2781	0.26	PPBV	#	1
53)	TRICHLOROETHYLENE	9.61	95	4022	0.22	PPBV		89
54)	1,2-DICHLOROPROPANE	9.38	63	3516	0.19	PPBV		98
55)	DIBROMOMETHANE	9.39	174	3137	0.19	PPBV		87
56)	ETHYL ACRYLATE	9.45	55	4813	0.15	PPBV	#	89
57)	BROMODICHLOROMETHANE	9.58	83	5857	0.18	PPBV		98
58)	2,2,4-TRIMETHYLPENTANE	9.55	57	15764	0.20	PPBV		96
59)	1,4-DIOXANE	9.74	88	1782m	0.19	PPBV		
60)	HEPTANE	9.80	43	5832	0.19	PPBV		97
61)	TVHC as EQUIV HEPTANE	9.80	TIC	36006m	0.19	PPBV		
62)	METHYL METHACRYLATE	9.84	69	2635	0.16	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.46	58	1607m	0.13	PPBV		
64)	cis-1,3-DICHLOROPROPENE	10.43	75	3858	0.16	PPBV		96
65)	TOLUENE	11.35	92	5353	0.18	PPBV		97
66)	trans-1,3-DICHLOROPROPENE	10.93	75	2938	0.14	PPBV		92
67)	1,1,2-TRICHLOROETHANE	11.09	83	2701	0.18	PPBV		98
69)	2-HEXANONE	11.65	58	1465	0.11	PPBV	#	52
70)	ETHYL METHACRYLATE	11.65	69	2768	0.13	PPBV		94
71)	TETRACHLOROETHYLENE	12.47	164	3707	0.22	PPBV		97
72)	DIBROMOCHLOROMETHANE	11.78	129	4779	0.19	PPBV		99
73)	1,2-DIBROMOETHANE	11.99	107	3532	0.18	PPBV		97
74)	OCTANE	12.27	43	6996	0.20	PPBV		98
75)	1,1,1,2-TETRACHLOROETHANE	13.17	131	3713	0.20	PPBV		95
76)	CHLOROBENZENE	13.20	112	5806	0.19	PPBV	#	44
77)	ETHYLBENZENE	13.57	91	9697	0.19	PPBV		97
78)	m,p-XYLENE	13.76	106	6767	0.36	PPBV		97
79)	o-XYLENE	14.25	106	3271	0.18	PPBV		88
80)	STYRENE	14.16	104	3672	0.15	PPBV		97
81)	NONANE	14.46	43	5351	0.17	PPBV		97
82)	BROMOFORM	13.85	173	3498	0.16	PPBV		98
84)	1,1,2,2-TETRACHLOROETHANE	14.28	83	4703	0.18	PPBV		98
85)	1,2,3-TRICHLOROPROPANE	14.41	75	3840	0.20	PPBV		95
86)	ISOPROPYLBENZENE	14.91	105	10123	0.19	PPBV		99
87)	BROMOBENZENE	15.02	77	4295	0.20	PPBV		94
88)	2-CHLOROTOLUENE	15.47	126	2148	0.18	PPBV		99
89)	n-PROPYLBENZENE	15.49	120	2088	0.16	PPBV		94
90)	4-ETHYLTOLUENE	15.67	105	6329	0.15	PPBV		97
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	5987	0.17	PPBV		94
92)	ALPHA-METHYLSTYRENE	15.98	118	1865	0.12	PPBV		97
93)	tert-BUTYLBENZENE	16.25	134	1617	0.18	PPBV	#	85
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	5339	0.16	PPBV		86
95)	m-DICHLOROBENZENE	16.46	146	2527	0.14	PPBV		99
96)	BENZYL CHLORIDE	16.46	91	2334	0.11	PPBV		97
97)	p-DICHLOROBENZENE	16.54	146	2573	0.16	PPBV		94
98)	sec-BUTYLBENZENE	16.59	134	1686	0.16	PPBV		93
99)	p-ISOPROPYLTOLUENE	16.79	134	1524	0.14	PPBV		97
100)	o-DICHLOROBENZENE	16.97	146	2662	0.16	PPBV		93
101)	n-BUTYLBENZENE	17.30	134	896	0.11	PPBV	#	76
102)	HEXACHLOROETHANE	17.79	117	2783	0.19	PPBV		94
103)	HEXACHLOROBUTADIENE	19.60	225	1406	0.16	PPBV		95
104)	1,2,4-TRICHLOROBENZENE	19.05	180	473	0.14	PPBV	#	82
106)	NAPHTHALENE	19.18	128	944	0.14	PPBV	#	71

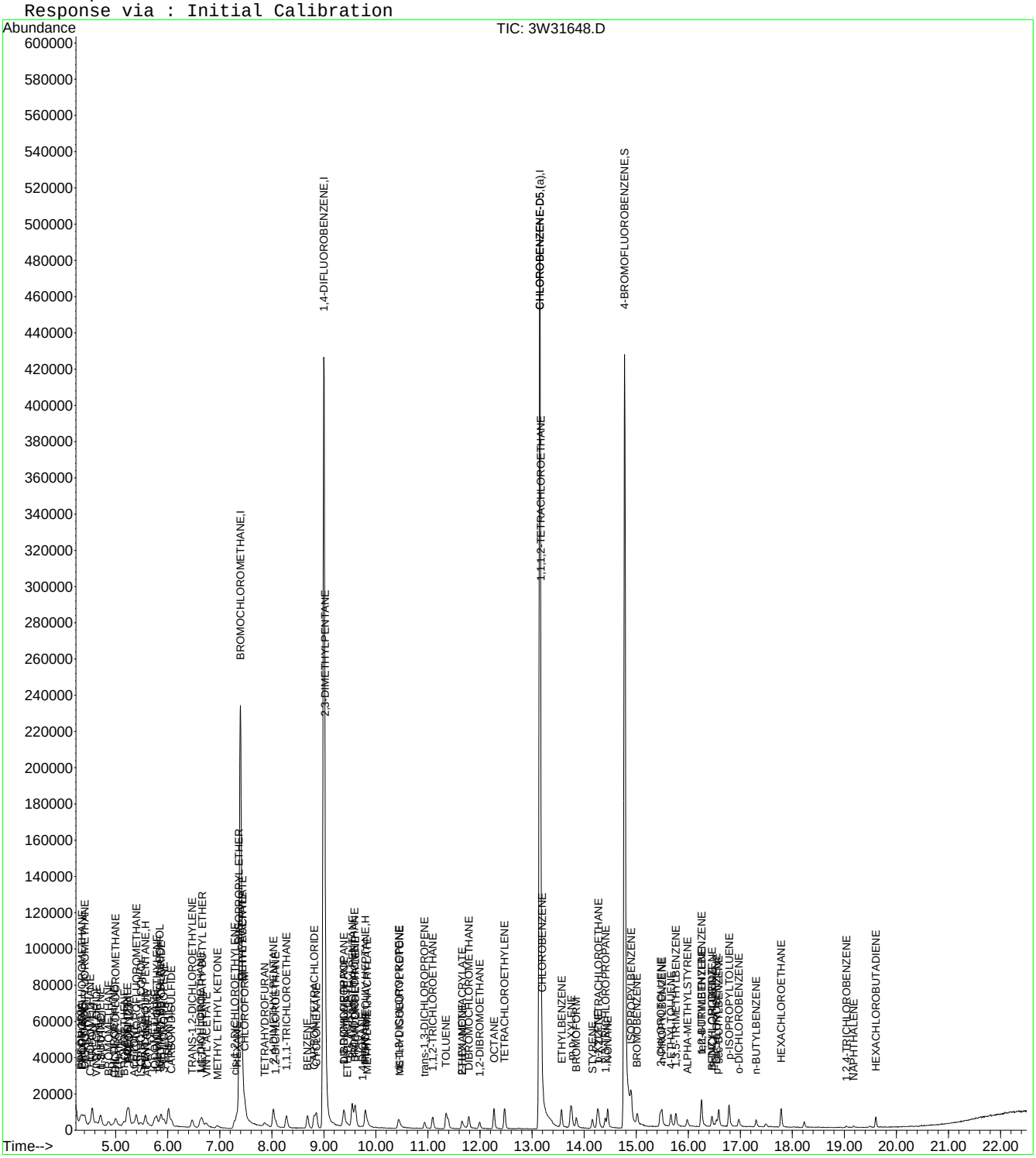
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES JB29729

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 9:02 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration



Manual Integration Approval Summary

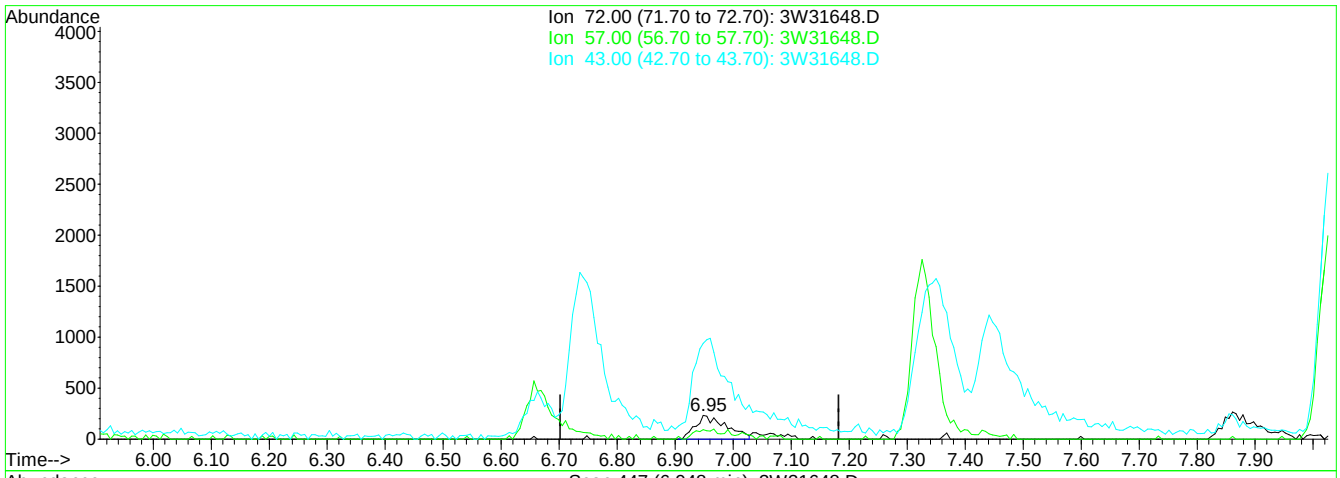
Sample Number: V3W1230-IC1230 **Method:** TO-15
Lab FileID: 3W31648.D **Analyst approved:** 01/11/13 14:27 Youmin Hu
Injection Time: 01/10/13 19:51 **Supervisor approved:** 01/15/13 19:00 Kanya Veerawat

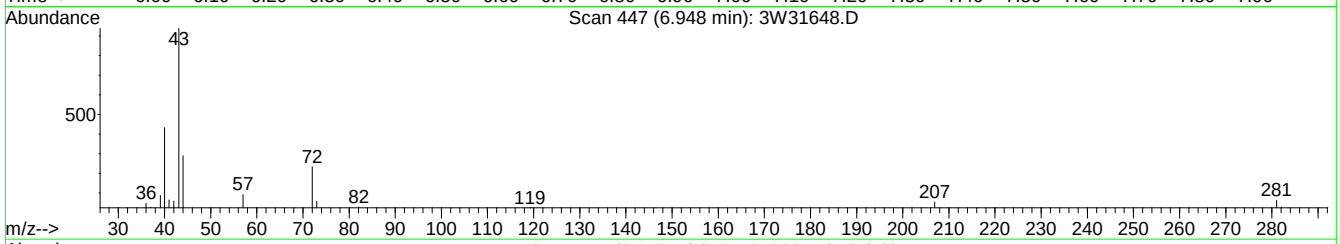
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl ethyl ketone	78-93-3		6.95	Poor instrument integration
1,4-Dioxane	123-91-1		9.74	Poor instrument integration
Methyl Isobutyl Ketone	108-10-1		10.46	Poor instrument integration

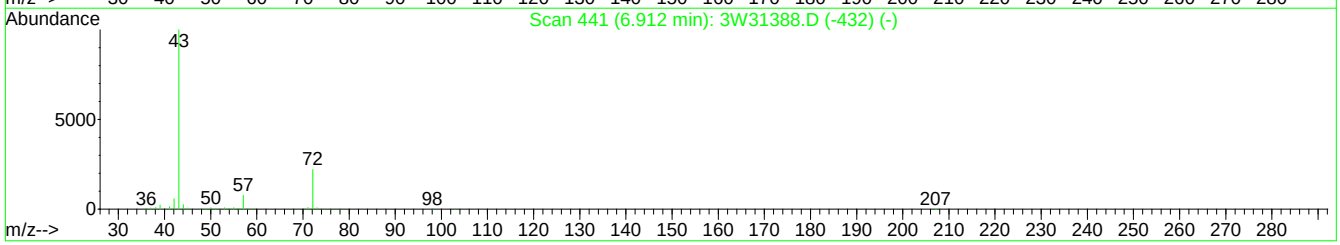
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:55 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Multiple Level Calibration







TIC: 3W31648.D

(39) METHYL ETHYL KETONE

6.95min 0.12PPBV

response 849

Ion	Exp%	Act%
72.00	100	100
57.00	30.30	39.06
43.00	429.60	403.00#
0.00	0.00	0.00

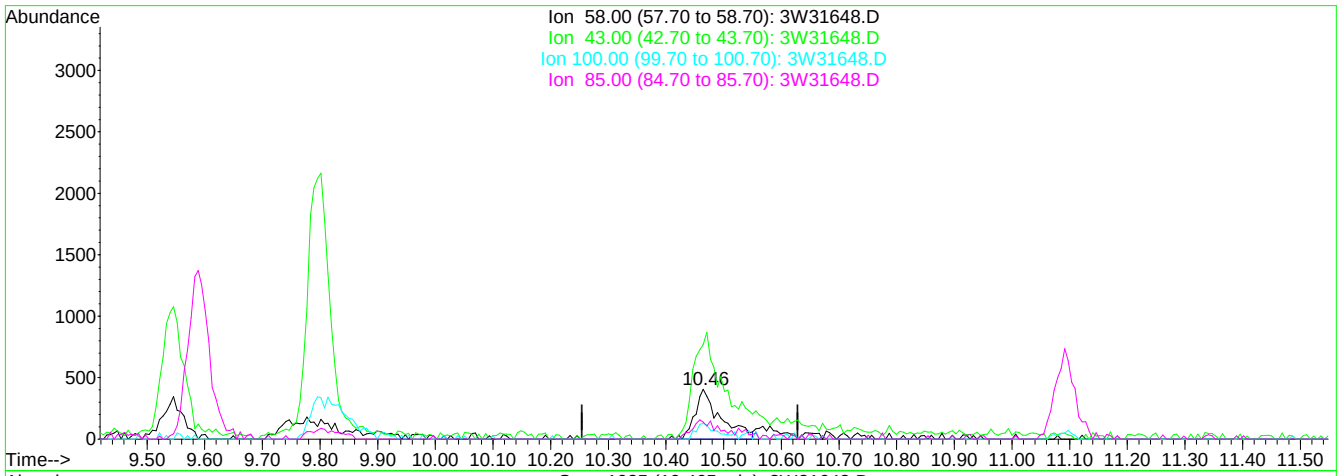
3W31648.D M3W1230.M Fri Jan 11 08:55:38 2013 MS3W

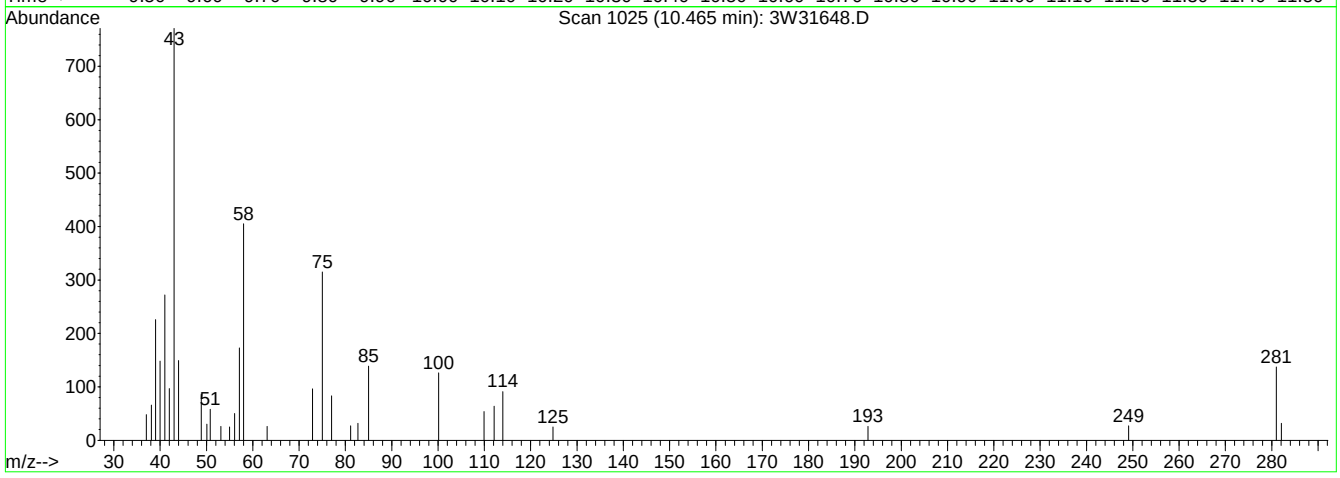
3W31648.D edits: METHYL ETHYL KETONE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 9:01 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 09:00:29 2013
Response via : Single Level Calibration





TIC: 3W31648.D

(63) METHYL ISOBUTYL KETONE

10.46min 0.10PPBV

response 1229

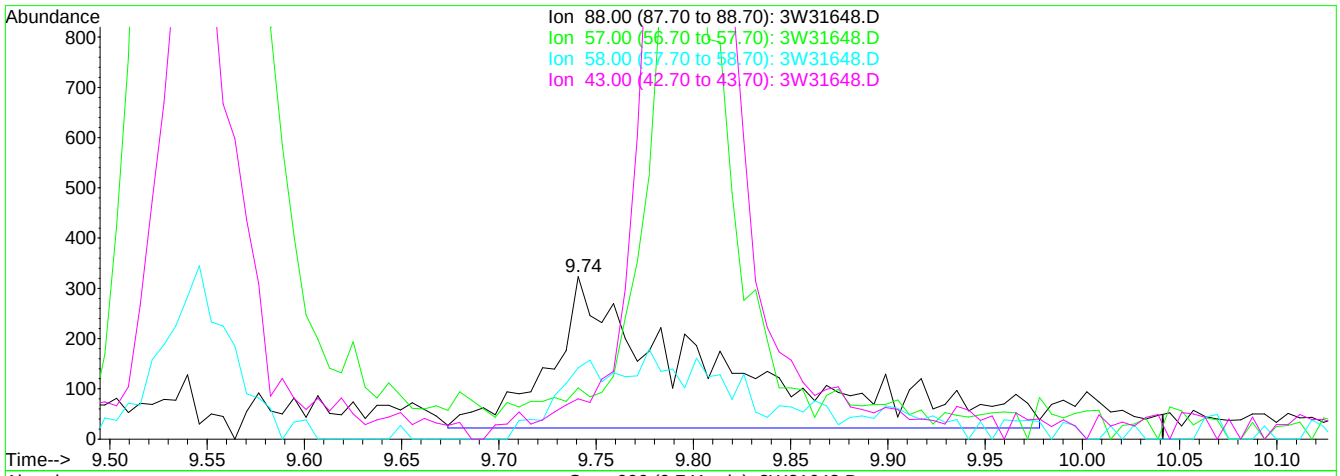
Ion	Exp%	Act%
58.00	100	100
43.00	249.70	293.41#
100.00	32.50	26.53
85.00	42.10	40.28

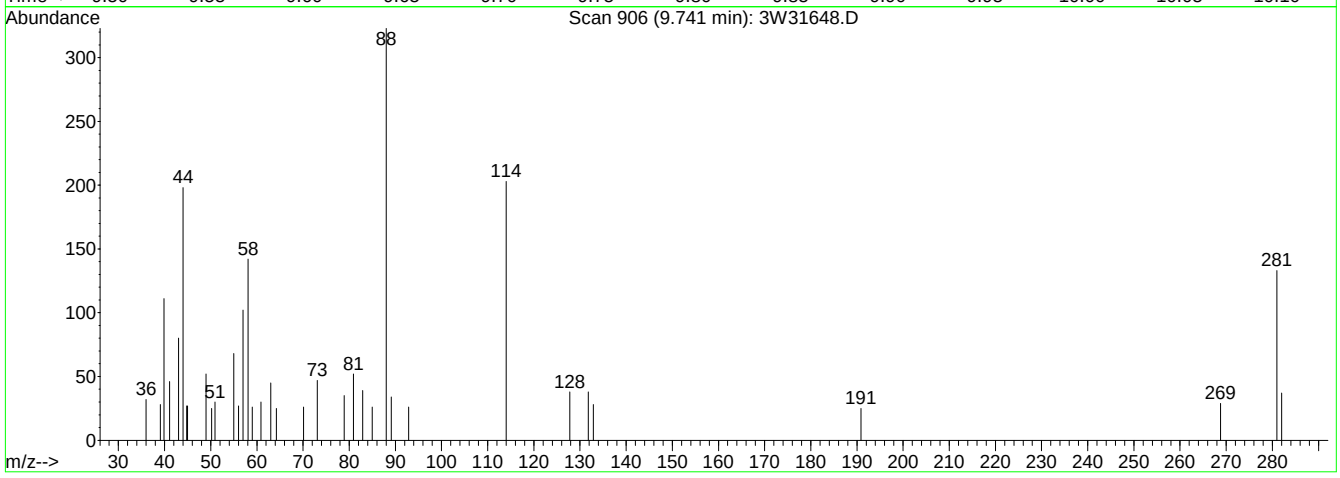
3W31648.D M3W1230.M Fri Jan 11 09:01:34 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 9:02 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 09:00:29 2013
Response via : Multiple Level Calibration





TIC: 3W31648.D

(59) 1,4-DIOXANE

9.74min 0.19PPBV m

response 1782

Ion	Exp%	Act%
88.00	100	100
57.00	29.20	31.58
58.00	69.10	43.96#
43.00	27.80	24.77

3W31648.D M3W1230.M Fri Jan 11 09:02:31 2013 MS3W

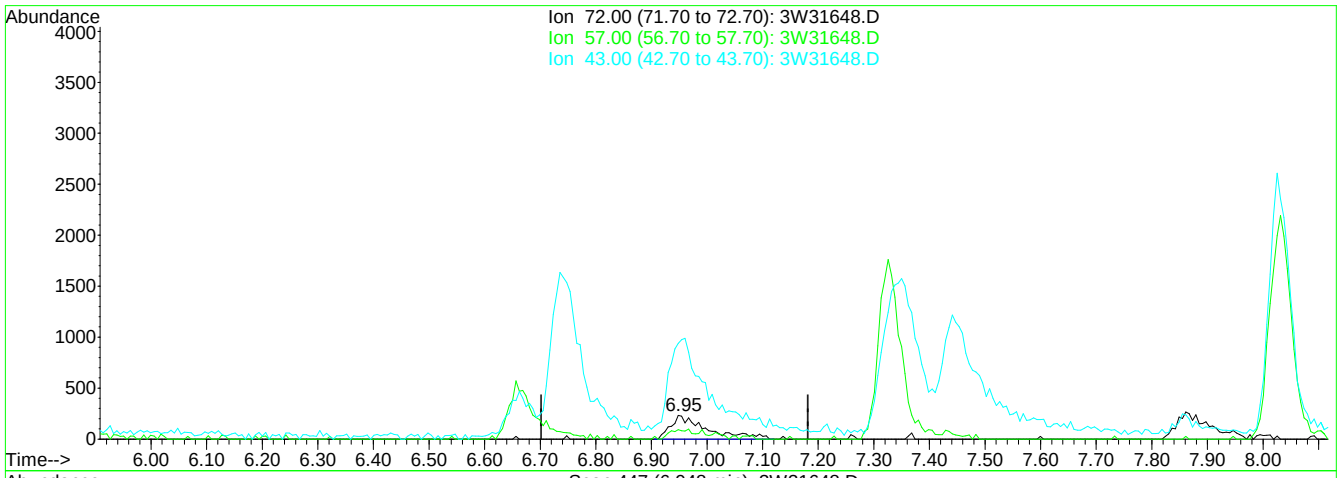
3W31648.D edits: 1,4-DIOXANE

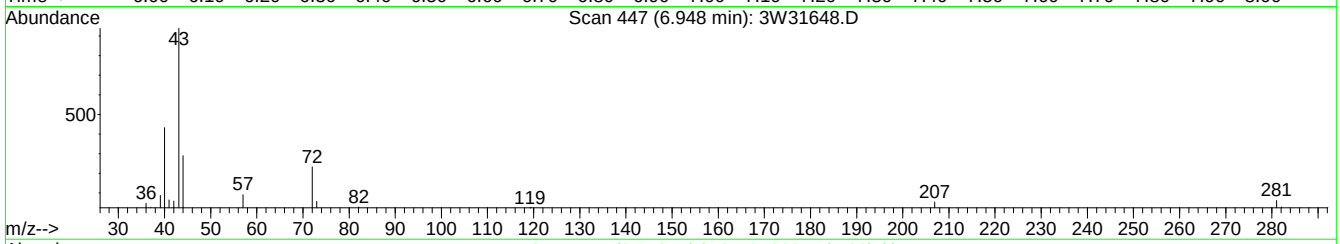
ACCUTEST LABORATORIES JB29729

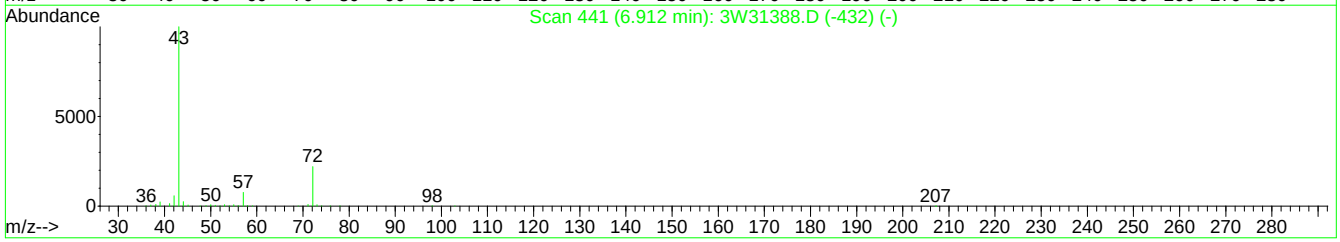
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 9:02 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 09:00:29 2013
Response via : Multiple Level Calibration







TIC: 3W31648.D

(39) METHYL ETHYL KETONE

6.95min 0.15PPBV m

response 1053

Ion	Exp%	Act%
72.00	100	100
57.00	30.30	39.06
43.00	429.60	403.00#
0.00	0.00	0.00

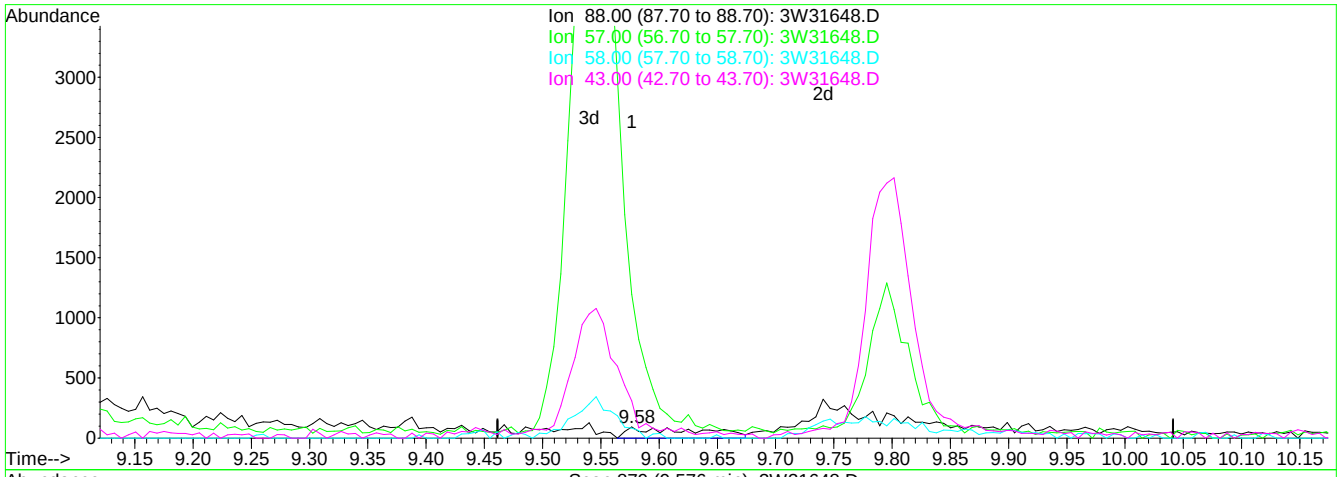
3W31648.D M3W1230.M Fri Jan 11 09:03:56 2013 MS3W

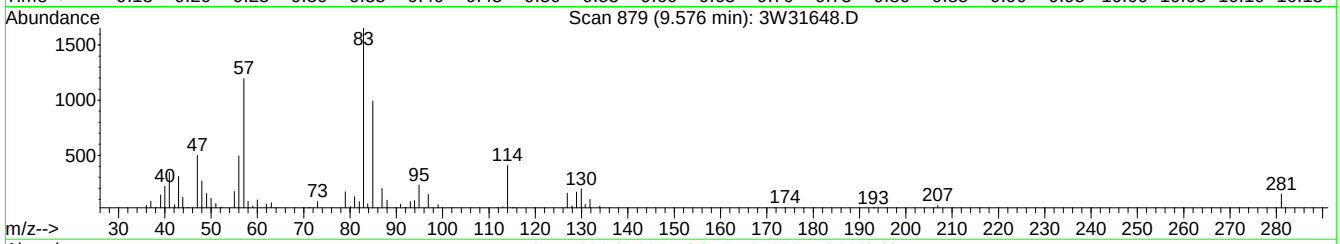
ACCUTEST LABORATORIES
JB29729
3W31648.D edits: METHYL ETHYL KETONE

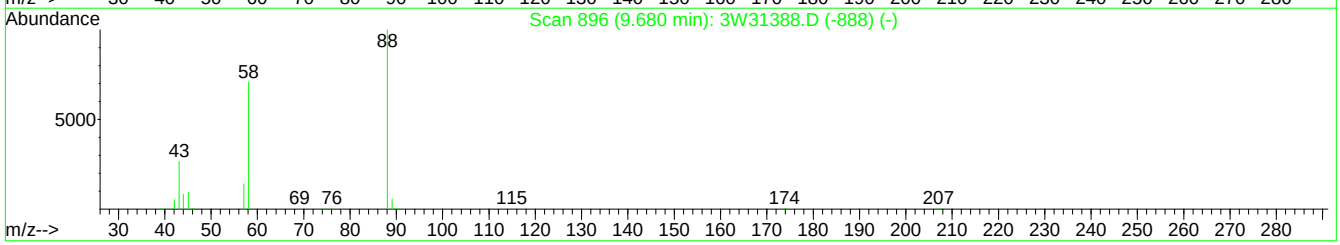
Quantitation Report (Qedit)

Data File : C:_RESTORE\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:50 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31648.D

(59) 1,4-DIOXANE

9.58min 0.04PPBV

response 392

Ion	Exp%	Act%
88.00	100	100
57.00	29.20	1298.91#
58.00	69.10	89.13#
43.00	27.80	335.87#

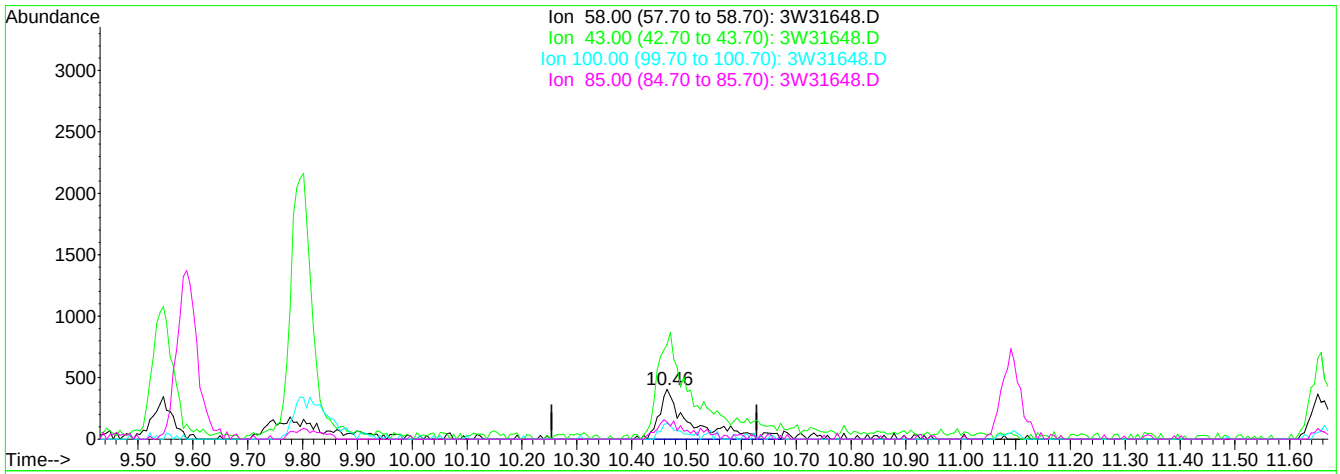
3W31648.D M3W1230.M Fri Jan 11 11:52:00 2013 MS3W

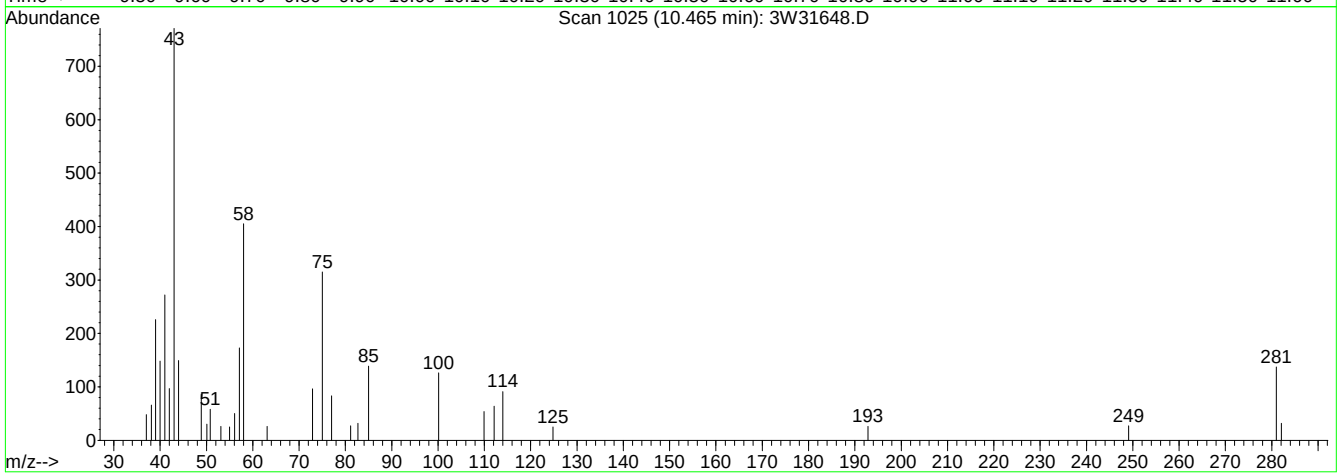
ACCUTEST LABORATORIES
JB29729
3W31648.D edits: 1,4-DIOXANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 9:02 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Single Level Calibration





TIC: 3W31648.D

(63) METHYL ISOBUTYL KETONE

10.46min 0.13PPBV m

response 1607

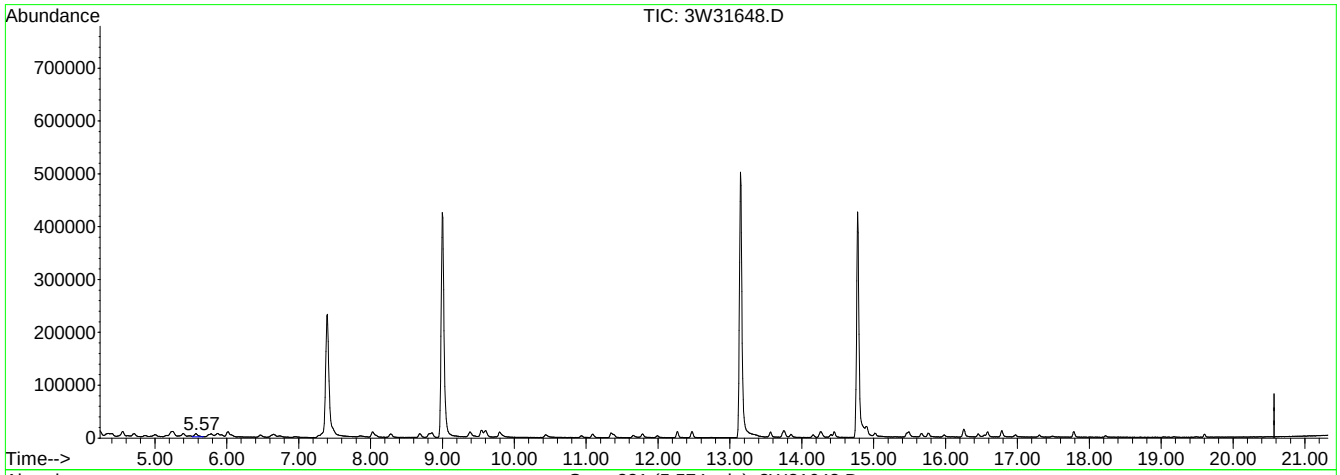
Ion	Exp%	Act%
58.00	100	100
43.00	249.70	224.39#
100.00	32.50	20.29
85.00	42.10	30.80

3W31648.D M3W1230.M Fri Jan 11 11:52:53 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 9:02 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31648.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 0.19PPBV m

response 18717

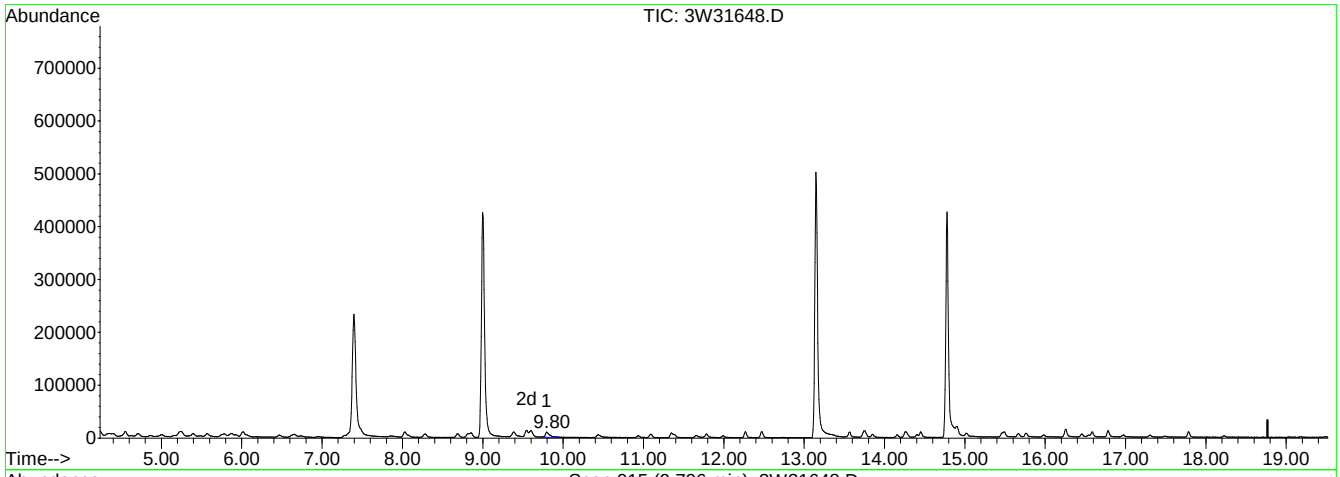
Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.00
0.00	0.80	0.00
0.00	0.00	0.00

3W31648.D M3W1230.M Fri Jan 11 11:54:23 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31648.D Vial: 21
Acq On : 10 Jan 2013 7:51 pm Operator: yunxiac
Sample : IC1230-0.2 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 9:02 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31648.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 0.19PPBV m

response 36006

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.00
0.00	0.40	0.00
0.00	0.00	0.00

3W31648.D M3W1230.M Fri Jan 11 11:56:52 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31649.D Vial: 22
Acq On : 10 Jan 2013 8:30 pm Operator: yunxiac
Sample : IC1230-15 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:16 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	99898	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.01	114	506942	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.16	82	263783	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.16	82	264376	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.79	95	293271	10.13	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.30%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	138084	15.19	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	50546	15.35	PPBV	93
5) DICHLORODIFLUOROMETHANE	4.41	85	485541	15.21	PPBV	99
6) PROPYLENE	4.36	41	182635	15.36	PPBV	99
7) FREON 114	4.55	85	571205	14.89	PPBV	100
8) CHLOROMETHANE	4.50	50	241456	15.22	PPBV	99
9) VINYL CHLORIDE	4.62	62	223220	14.58	PPBV	98
10) 1,3-BUTADIENE	4.70	54	173275	15.32	PPBV	99
11) n-BUTANE	4.72	43	370818	15.02	PPBV	100
12) BROMOMETHANE	4.86	94	202247	14.97	PPBV	100
13) CHLOROETHANE	4.95	64	122214	15.00	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	475552	14.98	PPBV	100
15) ACETONITRILE	5.18	41	160746	15.41	PPBV	97
16) FREON 123	5.23	83	502706	14.93	PPBV	100
17) FREON 123A	5.26	117	278201	14.91	PPBV	100
18) TRICHLOROFLUOROMETHANE	5.40	101	486456	14.74	PPBV	99
19) ISOPROPYL ALCOHOL	5.45	45	379653	15.10	PPBV	99
20) ACETONE	5.30	58	97955	14.91	PPBV	100
21) PENTANE	5.57	42	237033	15.04	PPBV	100
22) TVHC as EQUIV PENTANE	5.57	TIC	1373892m	15.07	PPBV	
23) IODOMETHANE	5.75	142	530406	14.79	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.79	96	209967	14.82	PPBV	99
25) CARBON DISULFIDE	6.07	76	584187	14.98	PPBV	99
26) ETHANOL	5.04	45	89305	15.24	PPBV	100
27) BROMOETHENE	5.16	106	206890	14.92	PPBV	100
28) ACRYLONITRILE	5.60	52	130971	15.39	PPBV	100
29) METHYLENE CHLORIDE	5.88	84	180278	14.98	PPBV	100
30) 3-CHLOROPROPENE	5.94	76	98772	15.18	PPBV	99
31) FREON 113	6.02	151	344455	14.89	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	204504	15.18	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.81	59	437218	15.09	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	6.63	73	582418	14.89	PPBV	100
35) TETRAHYDROFURAN	7.80	72	99503	14.84	PPBV	98
36) HEXANE	7.33	57	353748	15.13	PPBV	99
37) VINYL ACETATE	6.74	86	44812	14.75	PPBV #	90
38) 1,1-DICHLOROETHANE	6.63	63	411238	14.95	PPBV	100
39) METHYL ETHYL KETONE	6.91	72	101166	15.08	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	7.29	96	216419	14.87	PPBV	99
41) DIISOPROPYL ETHER	7.34	45	820809	14.89	PPBV	99
42) ETHYL ACETATE	7.42	61	79691	15.61	PPBV	95
43) METHYL ACRYLATE	7.43	55	362607	15.39	PPBV	99
44) CHLOROFORM	7.50	83	425218	14.98	PPBV	100
45) 2,4-DIMETHYLPENTANE	8.04	57	439794	14.96	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.29	97	412374	14.84	PPBV	100
47) CARBON TETRACHLORIDE	8.82	117	430338	14.87	PPBV	100
48) 1,2-DICHLOROETHANE	8.09	62	253632	15.09	PPBV	99
50) BENZENE	8.69	78	657898	14.61	PPBV	100
51) CYCLOHEXANE	8.86	84	350534	14.63	PPBV	100

(#) = qualifier out of range (m) = manual integration
3W31649.D M3W1230.M Fri Jan 11 11:55:52 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31649.D Vial: 22
Acq On : 10 Jan 2013 8:30 pm Operator: yunxiac
Sample : IC1230-15 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:16 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	2,3-DIMETHYLPENTANE	9.05	71	157144	14.85	PPBV	96
53)	TRICHLOROETHYLENE	9.62	95	265427	14.81	PPBV	99
54)	1,2-DICHLOROPROPANE	9.38	63	266537	14.79	PPBV	100
55)	DIBROMOMETHANE	9.41	174	242688	14.79	PPBV	99
56)	ETHYL ACRYLATE	9.41	55	466925	15.08	PPBV	100
57)	BROMODICHLOROMETHANE	9.60	83	454862	14.74	PPBV	100
58)	2,2,4-TRIMETHYLPENTANE	9.55	57	1120526	14.61	PPBV	100
59)	1,4-DIOXANE	9.66	88	135441	15.02	PPBV	99
60)	HEPTANE	9.80	43	431078	14.66	PPBV	99
61)	TVHC as EQUIV HEPTANE	9.81	TIC	2778000m	14.76	PPBV	
62)	METHYL METHACRYLATE	9.82	69	231342	14.81	PPBV	100
63)	METHYL ISOBUTYL KETONE	10.43	58	177784	15.31	PPBV	99
64)	cis-1,3-DICHLOROPROPENE	10.44	75	349318	15.00	PPBV	99
65)	TOLUENE	11.36	92	431164	14.72	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.95	75	309980	15.27	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.10	83	219891	14.77	PPBV	99
69)	2-HEXANONE	11.61	58	227303	14.92	PPBV	100
70)	ETHYL METHACRYLATE	11.65	69	363109	14.82	PPBV	99
71)	TETRACHLOROETHYLENE	12.48	164	275689	14.28	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.80	129	421534	14.41	PPBV	100
73)	1,2-DIBROMOETHANE	12.00	107	332739	14.71	PPBV	99
74)	OCTANE	12.27	43	570834	14.29	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.18	131	313091	14.42	PPBV	100
76)	CHLOROBENZENE	13.20	112	508618	14.55	PPBV	100
77)	ETHYLBENZENE	13.57	91	846138	14.39	PPBV	99
78)	m,p-XYLENE	13.76	106	633583	29.18	PPBV	98
79)	o-XYLENE	14.27	106	307285	14.48	PPBV	99
80)	STYRENE	14.17	104	427634	14.87	PPBV	100
81)	NONANE	14.46	43	536025	14.40	PPBV	99
82)	BROMOFORM	13.87	173	365063	14.66	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.29	83	427812	14.36	PPBV	100
85)	1,2,3-TRICHLOROPROPANE	14.42	75	329772	14.50	PPBV	100
86)	ISOPROPYLBENZENE	14.92	105	881076	14.41	PPBV	100
87)	BROMOBENZENE	15.03	77	376648	14.74	PPBV	100
88)	2-CHLOROTOLUENE	15.47	126	206450	14.66	PPBV	100
89)	n-PROPYLBENZENE	15.50	120	221518	14.82	PPBV	100
90)	4-ETHYLTOLUENE	15.68	105	712007	14.62	PPBV	99
91)	1,3,5-TRIMETHYLBENZENE	15.78	105	617066	14.66	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.99	118	274573	15.05	PPBV	100
93)	tert-BUTYLBENZENE	16.26	134	154410	14.49	PPBV	99
94)	1,2,4-TRIMETHYLBENZENE	16.27	105	562527	14.66	PPBV	99
95)	m-DICHLOROBENZENE	16.46	146	307924	14.98	PPBV	100
96)	BENZYL CHLORIDE	16.47	91	377759	15.20	PPBV	99
97)	p-DICHLOROBENZENE	16.55	146	288153	15.29	PPBV	100
98)	sec-BUTYLBENZENE	16.60	134	177525	14.60	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.79	134	180648	14.59	PPBV	100
100)	o-DICHLOROBENZENE	16.98	146	282198	14.91	PPBV	100
101)	n-BUTYLBENZENE	17.31	134	136622	14.82	PPBV	100
102)	HEXACHLOROETHANE	17.79	117	255708	14.70	PPBV	100
103)	HEXACHLOROBUTADIENE	19.61	225	144735	13.83	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.04	180	66755	16.29	PPBV	99
106)	NAPHTHALENE	19.18	128	127796	16.64	PPBV	99

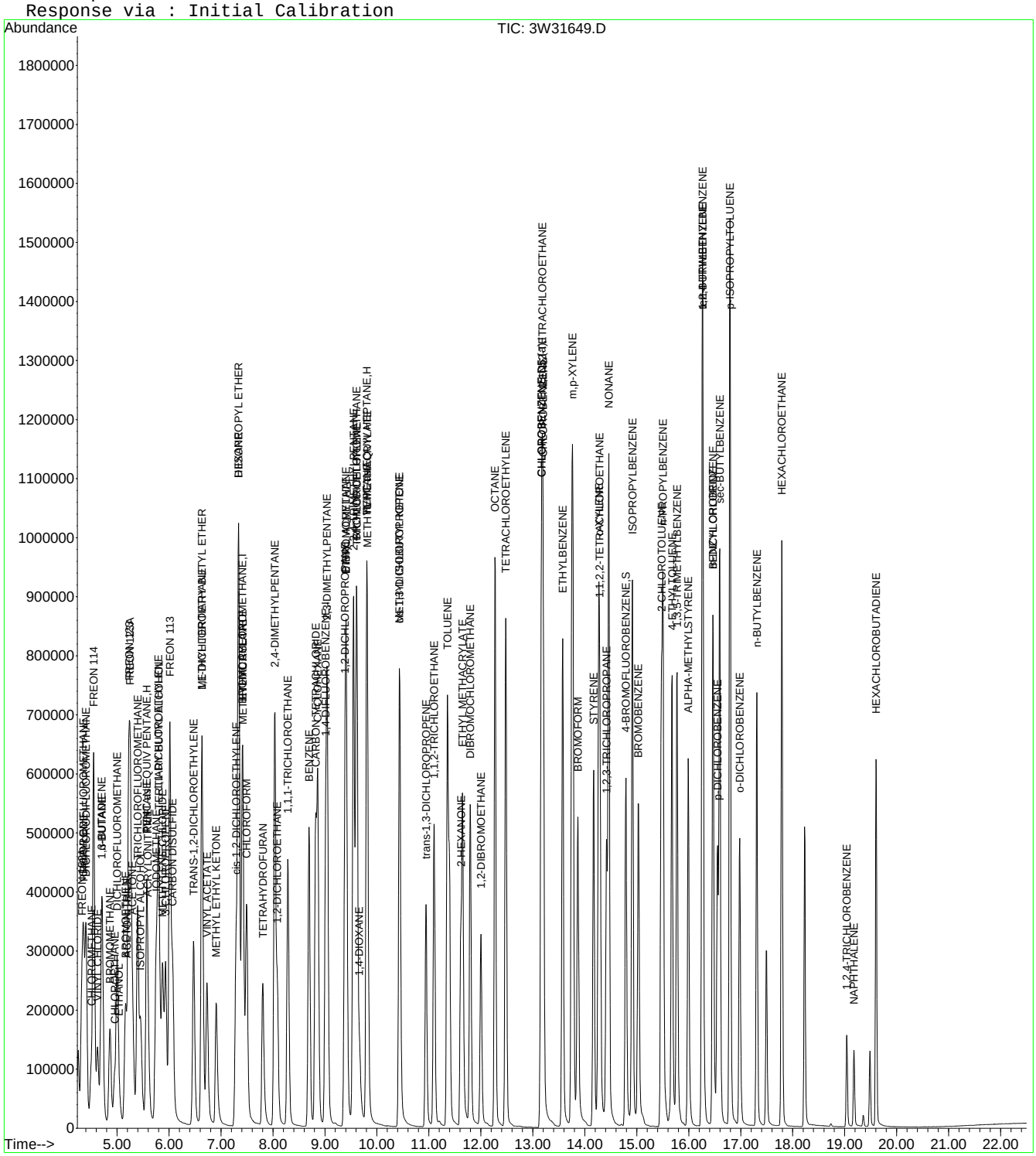
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES JB29729

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31649.D Vial: 22
Acq On : 10 Jan 2013 8:30 pm Operator: yunxiac
Sample : IC1230-15 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:56 2013 Quant Results File: M3W1230.RES

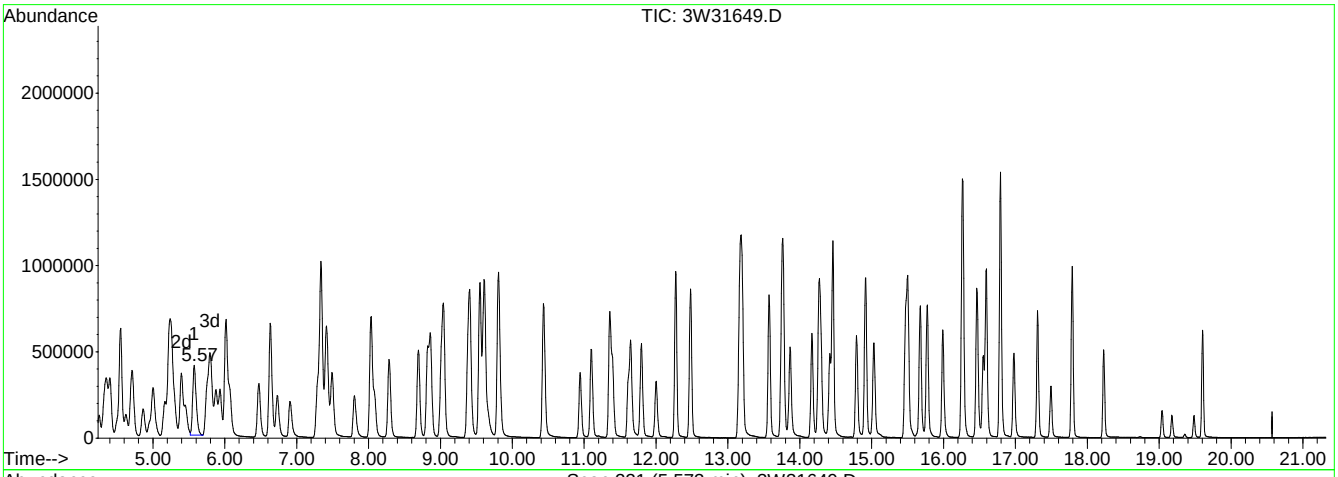
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31649.D Vial: 22
Acq On : 10 Jan 2013 8:30 pm Operator: yunxiac
Sample : IC1230-15 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:56 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31649.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 15.07PPBV m

response 1373892

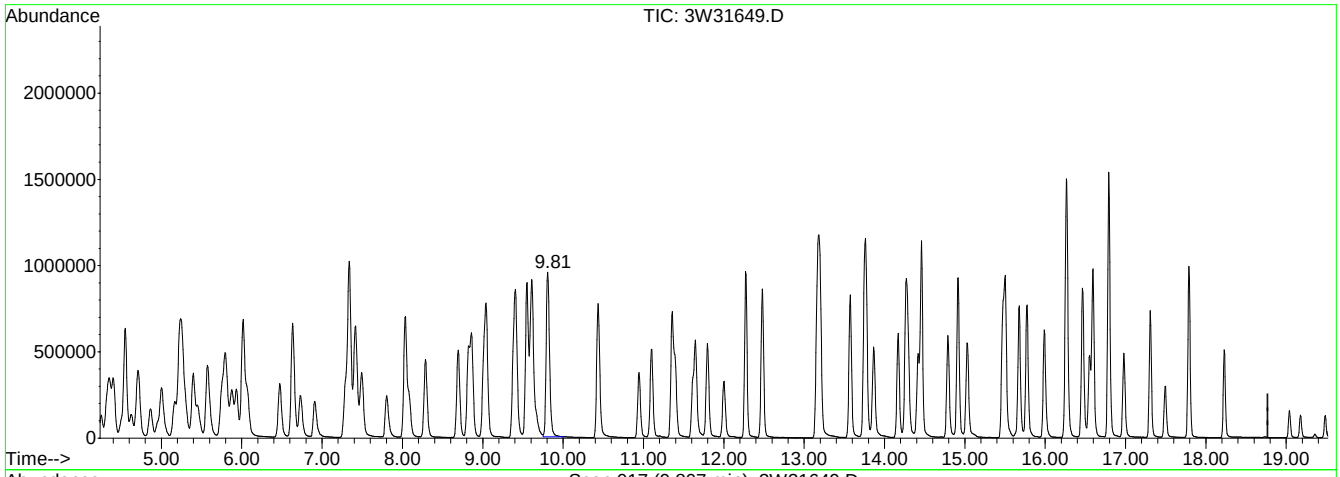
Signal	Exp%	Act%
TIC	100	100
0.00	1.00	1.17#
0.00	0.80	0.98#
0.00	0.00	0.00

3W31649.D M3W1230.M Fri Jan 11 11:54:30 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31649.D Vial: 22
Acq On : 10 Jan 2013 8:30 pm Operator: yunxiac
Sample : IC1230-15 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:56 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31649.D

(61) TVHC as EQUIV HEPTANE (H)

9.81min 14.76PPBV m

response 2778000

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.58#
0.00	0.40	0.48#
0.00	0.00	0.00

3W31649.D M3W1230.M Fri Jan 11 11:57:00 2013 MS3W

3W31649.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31650.D Vial: 23
Acq On : 10 Jan 2013 9:08 pm Operator: yunxiac
Sample : ICC1230-10 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:19 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	102442	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.01	114	509205	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.15	82	257216	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	257216	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.78	95	283179	10.03	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.30%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	93728	10.05	PPBV	100
4) CHLORODIFLUOROMETHANE	4.34	67	34717	10.28	PPBV	90
5) DICHLORODIFLUOROMETHANE	4.41	85	333263	10.18	PPBV	100
6) PROPYLENE	4.36	41	123637	10.14	PPBV	100
7) FREON 114	4.55	85	395685	10.06	PPBV	100
8) CHLOROMETHANE	4.50	50	163218	10.03	PPBV	100
9) VINYL CHLORIDE	4.62	62	157361	10.02	PPBV	100
10) 1,3-BUTADIENE	4.70	54	118069	10.18	PPBV	100
11) n-BUTANE	4.72	43	253616	10.02	PPBV	100
12) BROMOMETHANE	4.86	94	139200	10.05	PPBV	100
13) CHLOROETHANE	4.95	64	83907	10.04	PPBV	100
14) DICHLOROFLUOROMETHANE	5.00	67	326163	10.02	PPBV	100
15) ACETONITRILE	5.18	41	107163	10.02	PPBV	100
16) FREON 123	5.22	83	345851	10.02	PPBV	100
17) FREON 123A	5.26	117	192114	10.04	PPBV	100
18) TRICHLOROFLUOROMETHANE	5.40	101	339358	10.03	PPBV	100
19) ISOPROPYL ALCOHOL	5.45	45	257968	10.01	PPBV	100
20) ACETONE	5.30	58	67494	10.02	PPBV	100
21) PENTANE	5.57	42	162736	10.07	PPBV	99
22) TVHC as EQUIV PENTANE	5.57	TIC	934499m	9.99	PPBV	
23) IODOMETHANE	5.75	142	368312	10.02	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.79	96	145625	10.02	PPBV	100
25) CARBON DISULFIDE	6.07	76	401519	10.04	PPBV	100
26) ETHANOL	5.04	45	60172	10.02	PPBV	100
27) BROMOETHENE	5.16	106	142710	10.04	PPBV	100
28) ACRYLONITRILE	5.60	52	87405	10.02	PPBV	100
29) METHYLENE CHLORIDE	5.88	84	123684	10.02	PPBV	100
30) 3-CHLOROPROPENE	5.93	76	66850	10.02	PPBV	100
31) FREON 113	6.02	151	237878	10.02	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	138704	10.04	PPBV	100
33) TERTIARY BUTYL ALCOHOL	5.81	59	298405	10.04	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	6.63	73	401500	10.01	PPBV	100
35) TETRAHYDROFURAN	7.81	72	68747	10.00	PPBV	100
36) HEXANE	7.33	57	241102	10.06	PPBV	100
37) VINYL ACETATE	6.73	86	31205	10.02	PPBV	100
38) 1,1-DICHLOROETHANE	6.63	63	282606	10.02	PPBV	100
39) METHYL ETHYL KETONE	6.91	72	68798	10.00	PPBV	100
40) cis-1,2-DICHLOROETHYLENE	7.29	96	149748	10.03	PPBV	100
41) DIISOPROPYL ETHER	7.34	45	566131	10.02	PPBV	100
42) ETHYL ACETATE	7.41	61	52809	10.09	PPBV	99
43) METHYL ACRYLATE	7.42	55	242776	10.05	PPBV	100
44) CHLOROFORM	7.49	83	291692	10.02	PPBV	100
45) 2,4-DIMETHYLPENTANE	8.03	57	302006	10.02	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.29	97	285441	10.02	PPBV	100
47) CARBON TETRACHLORIDE	8.82	117	297335	10.02	PPBV	100
48) 1,2-DICHLOROETHANE	8.08	62	172609	10.02	PPBV	100
50) BENZENE	8.69	78	452919	10.01	PPBV	100
51) CYCLOHEXANE	8.86	84	240977	10.02	PPBV	100

(#) = qualifier out of range (m) = manual integration
3W31650.D M3W1230.M Fri Jan 11 11:55:55 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31650.D Vial: 23
Acq On : 10 Jan 2013 9:08 pm Operator: yunxiac
Sample : ICC1230-10 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:19 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

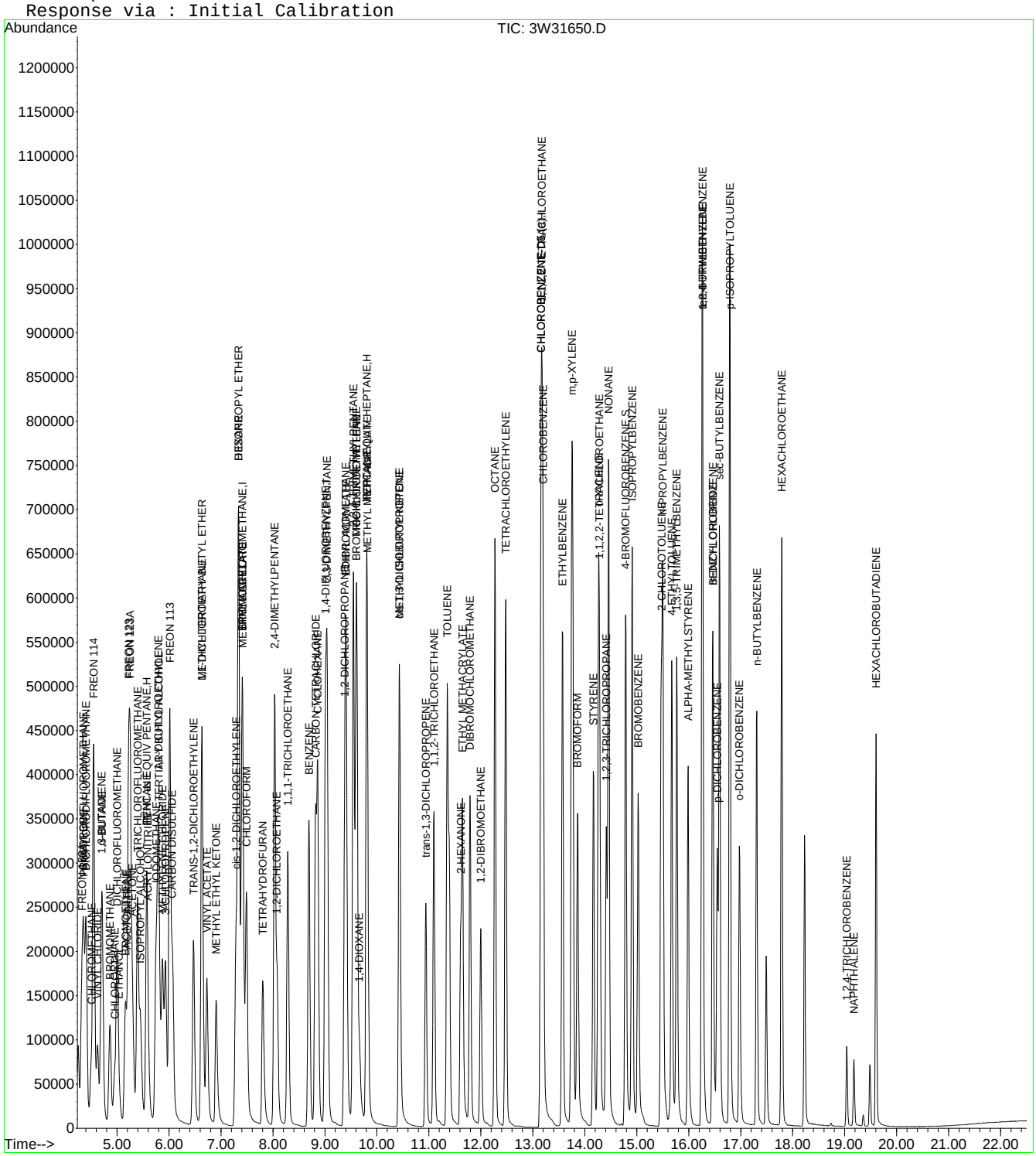
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	2,3-DIMETHYLPENTANE	9.04	71	106263	10.00	PPBV	100
53)	TRICHLOROETHYLENE	9.61	95	179987	10.00	PPBV	100
54)	1,2-DICHLOROPROPANE	9.38	63	180967	10.00	PPBV	100
55)	DIBROMOMETHANE	9.41	174	164846	10.00	PPBV	100
56)	ETHYL ACRYLATE	9.41	55	311095	10.00	PPBV	100
57)	BROMODICHLOROMETHANE	9.59	83	309536	9.98	PPBV	100
58)	2,2,4-TRIMETHYLPENTANE	9.55	57	770260	10.00	PPBV	100
59)	1,4-DIOXANE	9.66	88	90206	9.96	PPBV	100
60)	HEPTANE	9.80	43	296704	10.05	PPBV	100
61)	TVHC as EQUIV HEPTANE	9.81	TIC	1900026m	10.05	PPBV	
62)	METHYL METHACRYLATE	9.82	69	156910	10.00	PPBV	100
63)	METHYL ISOBUTYL KETONE	10.43	58	116404	9.98	PPBV	100
64)	cis-1,3-DICHLOROPROPENE	10.43	75	233841	10.00	PPBV	100
65)	TOLUENE	11.35	92	294558	10.01	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.94	75	203908	10.00	PPBV	100
67)	1,1,2-TRICHLOROETHANE	11.10	83	149518	10.00	PPBV	100
69)	2-HEXANONE	11.61	58	148294	9.98	PPBV	100
70)	ETHYL METHACRYLATE	11.64	69	238616	9.99	PPBV	100
71)	TETRACHLOROETHYLENE	12.48	164	188048	9.99	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.79	129	284661	9.98	PPBV	100
73)	1,2-DIBROMOETHANE	12.00	107	219541	9.96	PPBV	100
74)	OCTANE	12.27	43	389121	9.99	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.18	131	211538	9.99	PPBV	100
76)	CHLOROBENZENE	13.20	112	341699	10.02	PPBV	100
77)	ETHYLBENZENE	13.57	91	572776	9.99	PPBV	100
78)	m,p-XYLENE	13.76	106	423119	19.98	PPBV	100
79)	o-XYLENE	14.26	106	206710	9.99	PPBV	100
80)	STYRENE	14.16	104	280117	9.99	PPBV	100
81)	NONANE	14.46	43	362860	10.00	PPBV	100
82)	BROMOFORM	13.86	173	241961	9.97	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.29	83	287690	9.90	PPBV	100
85)	1,2,3-TRICHLOROPROPANE	14.41	75	221461	9.99	PPBV	100
86)	ISOPROPYLBENZENE	14.91	105	595696	9.99	PPBV	100
87)	BROMOBENZENE	15.03	77	248933	9.99	PPBV	100
88)	2-CHLOROTOLUENE	15.47	126	137300	10.00	PPBV	100
89)	n-PROPYLBENZENE	15.50	120	145556	9.99	PPBV	100
90)	4-ETHYLTOLUENE	15.67	105	474337	9.99	PPBV	100
91)	1,3,5-TRIMETHYLBENZENE	15.77	105	412322	10.04	PPBV	100
92)	ALPHA-METHYLSTYRENE	15.99	118	178263	10.02	PPBV	100
93)	tert-BUTYLBENZENE	16.26	134	103771	9.99	PPBV	100
94)	1,2,4-TRIMETHYLBENZENE	16.27	105	373948	10.00	PPBV	100
95)	m-DICHLOROBENZENE	16.46	146	200216	9.99	PPBV	100
96)	BENZYL CHLORIDE	16.46	91	242042	9.99	PPBV	100
97)	p-DICHLOROBENZENE	16.55	146	183583	9.99	PPBV	100
98)	sec-BUTYLBENZENE	16.59	134	118447	9.99	PPBV	100
99)	p-ISOPROPYLTOLUENE	16.79	134	120614	9.99	PPBV	100
100)	o-DICHLOROBENZENE	16.97	146	184368	9.99	PPBV	100
101)	n-BUTYLBENZENE	17.31	134	89930	10.00	PPBV	100
102)	HEXACHLOROETHANE	17.79	117	169424	9.99	PPBV	100
103)	HEXACHLOROBUTADIENE	19.60	225	102195	10.02	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.04	180	39911	9.99	PPBV	100
106)	NAPHTHALENE	19.18	128	75036	10.04	PPBV	100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31650.D Vial: 23
Acq On : 10 Jan 2013 9:08 pm Operator: yunxiac
Sample : ICC1230-10 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:57 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

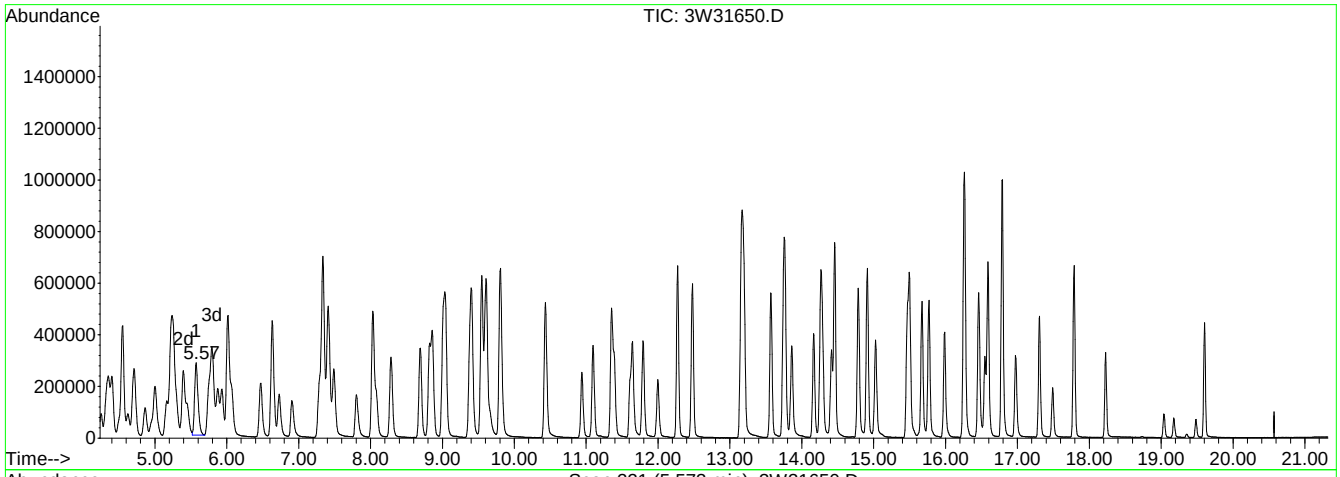


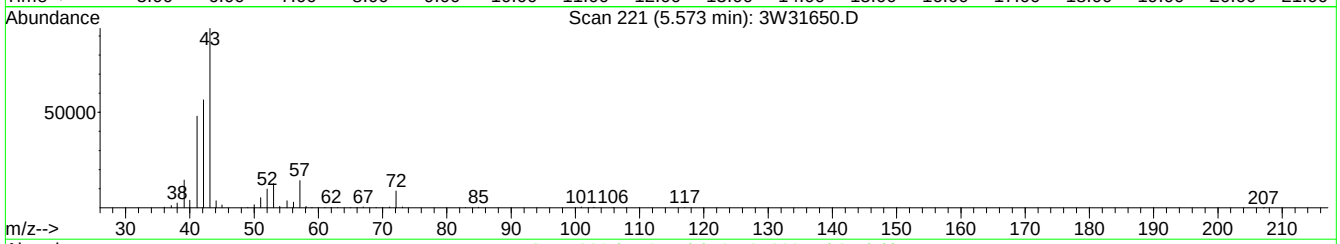
ACCUTEST LABORATORIES JB29729

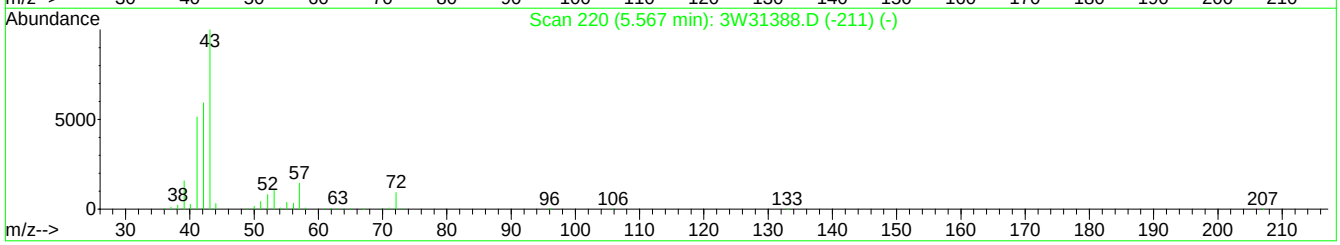
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31650.D Vial: 23
Acq On : 10 Jan 2013 9:08 pm Operator: yunxiac
Sample : ICC1230-10 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:57 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31650.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 9.99PPBV m

response 934499

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.97#
0.00	0.80	0.82#
0.00	0.00	0.00

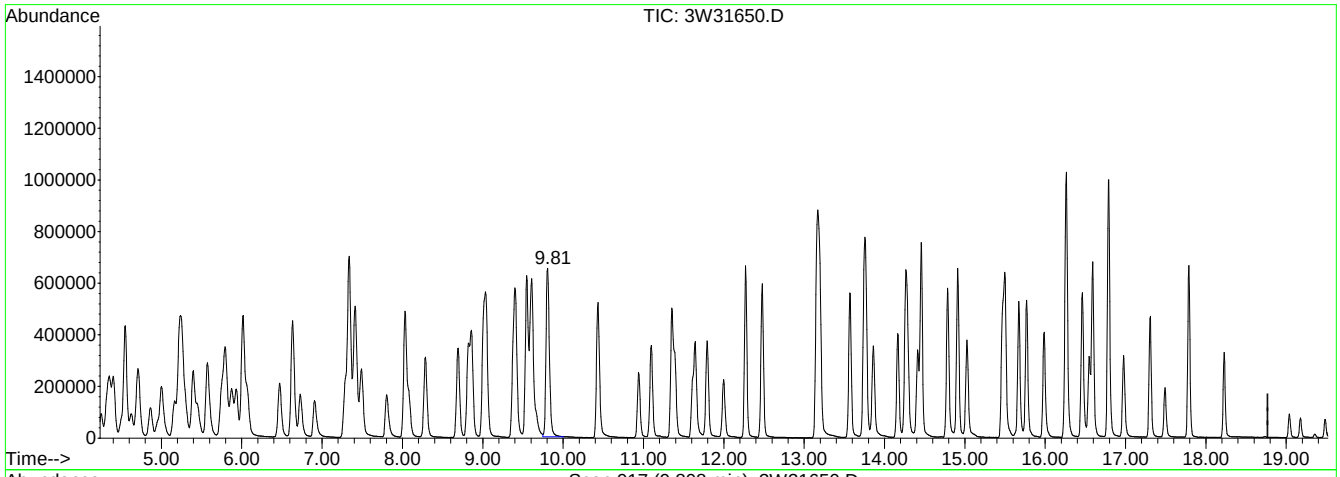
3W31650.D M3W1230.M Fri Jan 11 11:54:35 2013 MS3W

3W31650.D edits: TVHC as EQUIV PENTANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31650.D Vial: 23
Acq On : 10 Jan 2013 9:08 pm Operator: yunxiac
Sample : ICC1230-10 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:57 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31650.D

(61) TVHC as EQUIV HEPTANE (H)

9.81min 10.05PPBV m

response 1900026

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.48#
0.00	0.40	0.40#
0.00	0.00	0.00

3W31650.D M3W1230.M Fri Jan 11 11:57:07 2013 MS3W

3W31650.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31651.D Vial: 24
Acq On : 10 Jan 2013 9:46 pm Operator: yunxiac
Sample : IC1230-5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:23 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	95332	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	441866	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.15	82	214768	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	215057	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.78	95	228324	9.68	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.80%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	48144	5.55	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	17916	5.70	PPBV	90
5) DICHLORODIFLUOROMETHANE	4.40	85	174754	5.74	PPBV	100
6) PROPYLENE	4.36	41	64940	5.72	PPBV	99
7) FREON 114	4.55	85	205735	5.62	PPBV	99
8) CHLOROMETHANE	4.50	50	84663	5.59	PPBV	97
9) VINYL CHLORIDE	4.62	62	80116	5.48	PPBV	99
10) 1,3-BUTADIENE	4.69	54	59885	5.55	PPBV	99
11) n-BUTANE	4.72	43	129819	5.51	PPBV	100
12) BROMOMETHANE	4.86	94	71836	5.57	PPBV	100
13) CHLOROETHANE	4.95	64	43607	5.61	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	167536	5.53	PPBV	99
15) ACETONITRILE	5.18	41	52137	5.24	PPBV	99
16) FREON 123	5.22	83	178965	5.57	PPBV	99
17) FREON 123A	5.26	117	98994	5.56	PPBV	99
18) TRICHLOROFLUOROMETHANE	5.39	101	177040	5.62	PPBV	100
19) ISOPROPYL ALCOHOL	5.45	45	114823	4.79	PPBV	99
20) ACETONE	5.30	58	32809	5.23	PPBV	91
21) PENTANE	5.57	42	83794	5.57	PPBV	99
22) TVHC as EQUIV PENTANE	5.57	TIC	464329m	5.34	PPBV	
23) IODOMETHANE	5.74	142	189428	5.54	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.79	96	74295	5.49	PPBV	99
25) CARBON DISULFIDE	6.07	76	205883	5.53	PPBV	100
26) ETHANOL	5.04	45	27925	4.99	PPBV	99
27) BROMOETHENE	5.16	106	73148	5.53	PPBV	100
28) ACRYLONITRILE	5.59	52	42550	5.24	PPBV	98
29) METHYLENE CHLORIDE	5.87	84	63609	5.54	PPBV	99
30) 3-CHLOROPROPENE	5.93	76	34233	5.51	PPBV	99
31) FREON 113	6.01	151	122832	5.56	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	70172	5.46	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.80	59	132894	4.81	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.63	73	194511	5.21	PPBV	100
35) TETRAHYDROFURAN	7.81	72	32297	5.05	PPBV	98
36) HEXANE	7.33	57	122617	5.50	PPBV	100
37) VINYL ACETATE	6.72	86	14575	5.03	PPBV	99
38) 1,1-DICHLOROETHANE	6.63	63	145417	5.54	PPBV	99
39) METHYL ETHYL KETONE	6.91	72	30909	4.83	PPBV	98
40) cis-1,2-DICHLOROETHYLENE	7.28	96	75073	5.41	PPBV	99
41) DIISOPROPYL ETHER	7.34	45	274896	5.23	PPBV	94
42) ETHYL ACETATE	7.40	61	26091	5.36	PPBV #	86
43) METHYL ACRYLATE	7.42	55	113074	5.03	PPBV	98
44) CHLOROFORM	7.48	83	150190	5.54	PPBV	99
45) 2,4-DIMETHYLPENTANE	8.03	57	152190	5.42	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.28	97	146070	5.51	PPBV	100
47) CARBON TETRACHLORIDE	8.82	117	151969	5.50	PPBV	100
48) 1,2-DICHLOROETHANE	8.07	62	87153	5.43	PPBV	100
50) BENZENE	8.69	78	230296	5.87	PPBV	100
51) CYCLOHEXANE	8.86	84	122788	5.88	PPBV	100

(#) = qualifier out of range (m) = manual integration
3W31651.D M3W1230.M Fri Jan 11 11:55:57 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31651.D Vial: 24
Acq On : 10 Jan 2013 9:46 pm Operator: yunxiac
Sample : IC1230-5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:23 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

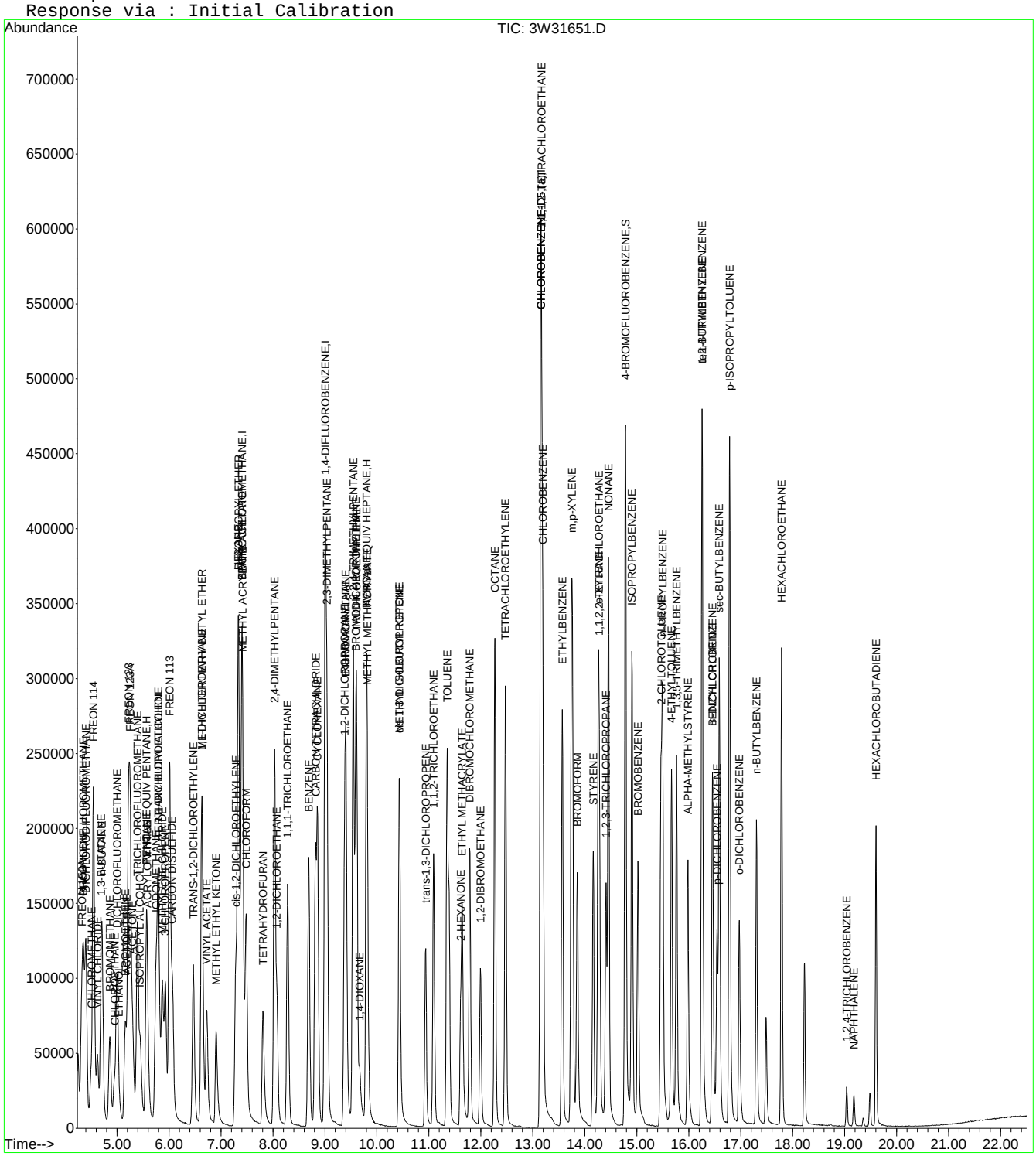
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	2,3-DIMETHYLPENTANE	9.04	71	54313	5.89	PPBV		99
53)	TRICHLOROETHYLENE	9.61	95	90734	5.81	PPBV		99
54)	1,2-DICHLOROPROPANE	9.38	63	89298	5.69	PPBV		99
55)	DIBROMOMETHANE	9.40	174	82163	5.74	PPBV		99
56)	ETHYL ACRYLATE	9.41	55	131112	4.86	PPBV		99
57)	BROMODICHLOROMETHANE	9.59	83	156363	5.81	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.55	57	391302	5.85	PPBV		100
59)	1,4-DIOXANE	9.67	88	38063	4.84	PPBV		97
60)	HEPTANE	9.80	43	148761	5.80	PPBV		99
61)	TVHC as EQUIV HEPTANE	9.80	TIC	922698m	5.62	PPBV		
62)	METHYL METHACRYLATE	9.82	69	69864	5.13	PPBV	#	89
63)	METHYL ISOBUTYL KETONE	10.43	58	46029	4.55	PPBV		98
64)	cis-1,3-DICHLOROPROPENE	10.43	75	112660	5.55	PPBV		99
65)	TOLUENE	11.35	92	145349	5.69	PPBV		98
66)	trans-1,3-DICHLOROPROPENE	10.94	75	94557	5.34	PPBV		99
67)	1,1,2-TRICHLOROETHANE	11.09	83	74108	5.71	PPBV		99
69)	2-HEXANONE	11.61	58	58234	4.69	PPBV		96
70)	ETHYL METHACRYLATE	11.64	69	94048	4.72	PPBV		99
71)	TETRACHLOROETHYLENE	12.47	164	94975	6.04	PPBV		99
72)	DIBROMOCHLOROMETHANE	11.78	129	139119	5.84	PPBV		100
73)	1,2-DIBROMOETHANE	11.99	107	104666	5.68	PPBV		98
74)	OCTANE	12.27	43	194722	5.99	PPBV		99
75)	1,1,1,2-TETRACHLOROETHANE	13.17	131	105255	5.95	PPBV		99
76)	CHLOROBENZENE	13.20	112	165861	5.83	PPBV		99
77)	ETHYLBENZENE	13.57	91	277194	5.79	PPBV		100
78)	m,p-XYLENE	13.76	106	200871	11.36	PPBV		99
79)	o-XYLENE	14.26	106	99876	5.78	PPBV		99
80)	STYRENE	14.16	104	125590	5.36	PPBV		99
81)	NONANE	14.46	43	179642	5.93	PPBV		100
82)	BROMOFORM	13.85	173	114385	5.64	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.28	83	137305	5.66	PPBV		100
85)	1,2,3-TRICHLOROPROPANE	14.41	75	105600	5.70	PPBV		99
86)	ISOPROPYLBENZENE	14.91	105	285055	5.72	PPBV		99
87)	BROMOBENZENE	15.02	77	116388	5.59	PPBV		99
88)	2-CHLOROTOLUENE	15.47	126	64466	5.62	PPBV		99
89)	n-PROPYLBENZENE	15.50	120	67623	5.56	PPBV		98
90)	4-ETHYLTOLUENE	15.67	105	215854	5.44	PPBV		100
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	193197	5.64	PPBV		99
92)	ALPHA-METHYLSTYRENE	15.98	118	76304	5.14	PPBV		99
93)	tert-BUTYLBENZENE	16.25	134	48773	5.62	PPBV		99
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	169584	5.43	PPBV		97
95)	m-DICHLOROBENZENE	16.46	146	87008	5.20	PPBV		99
96)	BENZYL CHLORIDE	16.46	91	95873	4.74	PPBV		99
97)	p-DICHLOROBENZENE	16.54	146	79680	5.19	PPBV		100
98)	sec-BUTYLBENZENE	16.59	134	55145	5.57	PPBV		99
99)	p-ISOPROPYLTOLUENE	16.79	134	53992	5.36	PPBV		96
100)	o-DICHLOROBENZENE	16.97	146	82670	5.36	PPBV		99
101)	n-BUTYLBENZENE	17.30	134	38762	5.16	PPBV		100
102)	HEXACHLOROETHANE	17.78	117	82370	5.82	PPBV		99
103)	HEXACHLOROBUTADIENE	19.60	225	46258	5.43	PPBV		99
104)	1,2,4-TRICHLOROBENZENE	19.04	180	11339	3.40	PPBV		97
106)	NAPHTHALENE	19.18	128	22323	3.57	PPBV		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31651.D Vial: 24
Acq On : 10 Jan 2013 9:46 pm Operator: yunxiac
Sample : IC1230-5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:57 2013 Quant Results File: M3W1230.RES

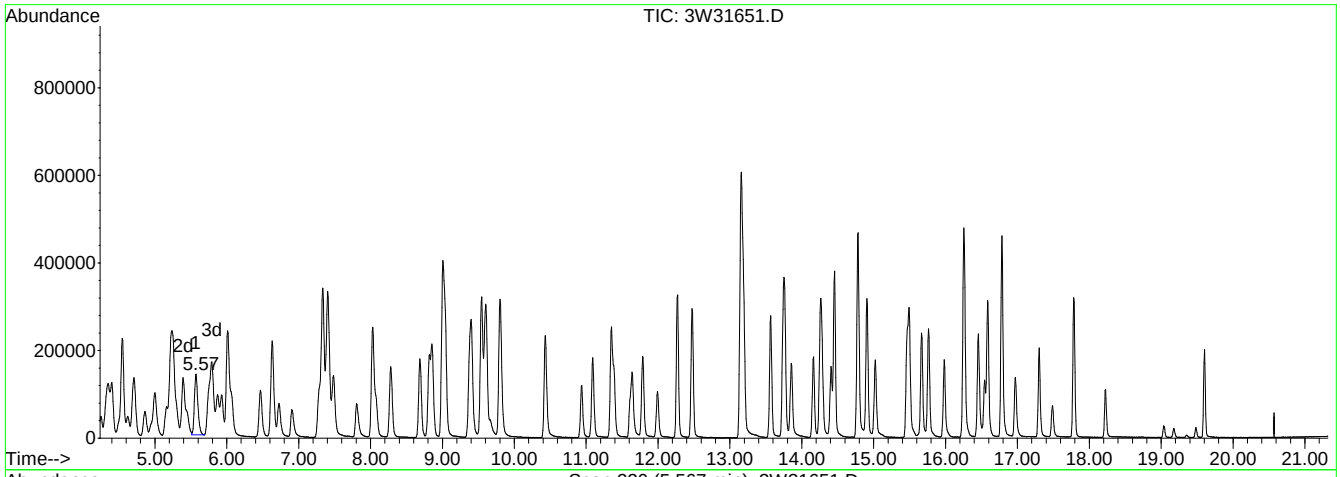
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

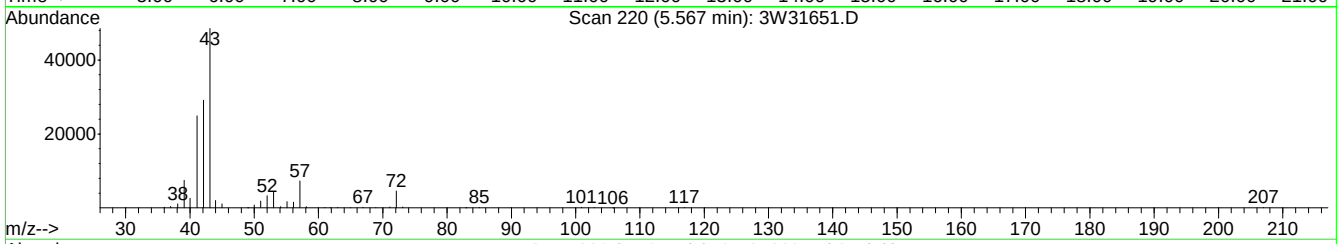


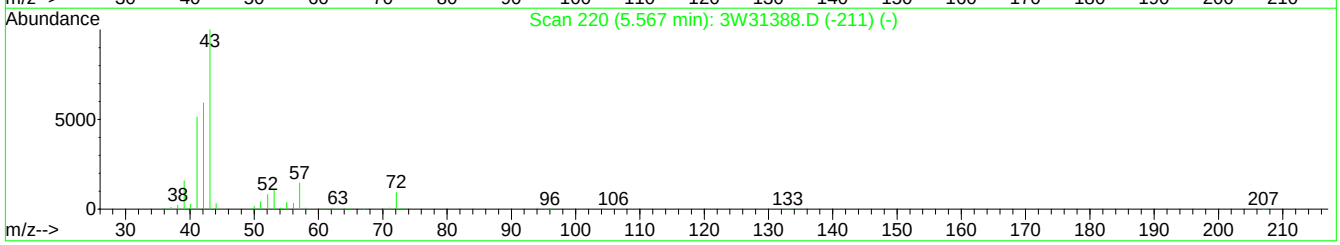
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31651.D Vial: 24
Acq On : 10 Jan 2013 9:46 pm Operator: yunxiac
Sample : IC1230-5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:57 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31651.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 5.34PPBV m

response 464329

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.56#
0.00	0.80	0.47#
0.00	0.00	0.00

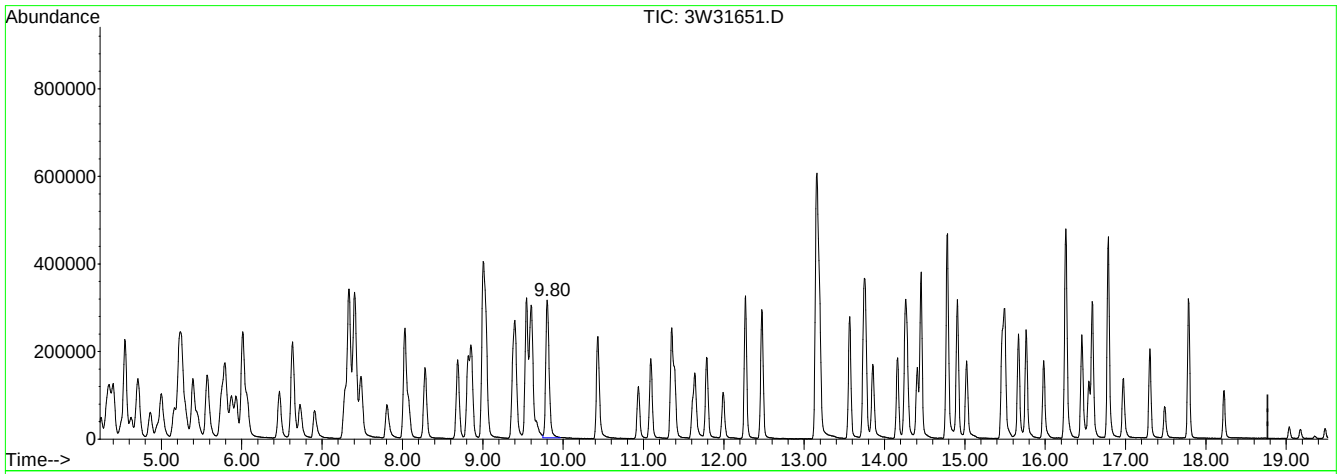
3W31651.D M3W1230.M Fri Jan 11 11:54:42 2013 MS3W

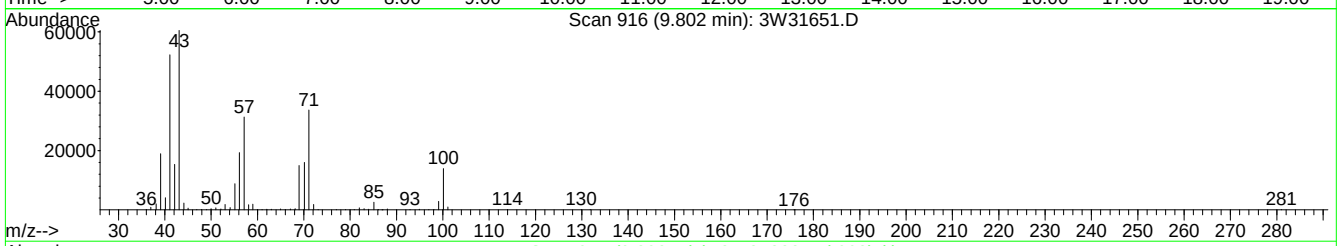
ACCUTEST LABORATORIES
JB29729
3W31651.D edits: TVHC as EQUIV PENTANE

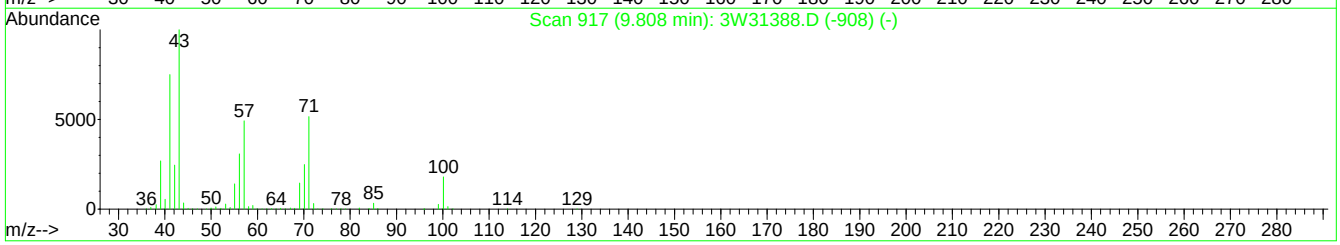
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31651.D Vial: 24
Acq On : 10 Jan 2013 9:46 pm Operator: yunxiac
Sample : IC1230-5 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:57 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31651.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 5.62PPBV m

response 922698

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.28#
0.00	0.40	0.24#
0.00	0.00	0.00

3W31651.D M3W1230.M Fri Jan 11 11:57:15 2013 MS3W

3W31651.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31654.D Vial: 27
Acq On : 10 Jan 2013 11:42 pm Operator: yunxiac
Sample : IC1230-20 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:32 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.41	128	91619	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.02	114	428052	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.16	82	237953	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.16	82	237511	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.79	95	250404	9.58	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.80%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	180123	21.60	PPBV	100
4) CHLORODIFLUOROMETHANE	4.34	67	68367	22.64	PPBV	90
5) DICHLORODIFLUOROMETHANE	4.41	85	633724	21.65	PPBV	99
6) PROPYLENE	4.36	41	244368	22.41	PPBV	99
7) FREON 114	4.55	85	763930	21.71	PPBV	99
8) CHLOROMETHANE	4.50	50	326652	22.45	PPBV	99
9) VINYL CHLORIDE	4.62	62	297973	21.22	PPBV	98
10) 1,3-BUTADIENE	4.70	54	235309	22.68	PPBV	99
11) n-BUTANE	4.72	43	501593	22.15	PPBV	100
12) BROMOMETHANE	4.86	94	268562	21.68	PPBV	100
13) CHLOROETHANE	4.95	64	165232	22.12	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	641728	22.03	PPBV	100
15) ACETONITRILE	5.18	41	227748	23.80	PPBV	98
16) FREON 123	5.23	83	674112	21.83	PPBV	100
17) FREON 123A	5.26	117	374763	21.90	PPBV	98
18) TRICHLOROFLUOROMETHANE	5.40	101	652865	21.57	PPBV	99
19) ISOPROPYL ALCOHOL	5.46	45	536098	23.26	PPBV	99
20) ACETONE	5.30	58	137943	22.89	PPBV	100
21) PENTANE	5.57	42	327184	22.64	PPBV	100
22) TVHC as EQUIV PENTANE	5.57	TIC	1896821m	22.68	PPBV	
23) IODOMETHANE	5.76	142	703808	21.40	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.79	96	283414	21.81	PPBV	98
25) CARBON DISULFIDE	6.07	76	781374	21.84	PPBV	99
26) ETHANOL	5.04	45	123383	22.96	PPBV	99
27) BROMOETHENE	5.16	106	275662	21.68	PPBV	99
28) ACRYLONITRILE	5.60	52	181892	23.31	PPBV	98
29) METHYLENE CHLORIDE	5.88	84	242429	21.97	PPBV	98
30) 3-CHLOROPROPENE	5.94	76	132388	22.18	PPBV	96
31) FREON 113	6.02	151	458140	21.59	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	269544	21.82	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.82	59	614401	23.12	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.64	73	788143	21.97	PPBV	99
35) TETRAHYDROFURAN	7.81	72	134221	21.83	PPBV	96
36) HEXANE	7.33	57	480468	22.41	PPBV	100
37) VINYL ACETATE	6.74	86	60964	21.88	PPBV #	86
38) 1,1-DICHLOROETHANE	6.63	63	557642	22.10	PPBV	100
39) METHYL ETHYL KETONE	6.91	72	138135	22.45	PPBV	100
40) cis-1,2-DICHLOROETHYLENE	7.30	96	289436	21.69	PPBV	97
41) DIISOPROPYL ETHER	7.34	45	1126338	22.28	PPBV	100
42) ETHYL ACETATE	7.42	61	108509	23.18	PPBV	98
43) METHYL ACRYLATE	7.43	55	501630	23.21	PPBV	100
44) CHLOROFORM	7.50	83	571982	21.97	PPBV	99
45) 2,4-DIMETHYLPENTANE	8.04	57	596355	22.11	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.29	97	555687	21.80	PPBV	99
47) CARBON TETRACHLORIDE	8.82	117	582460	21.94	PPBV	100
48) 1,2-DICHLOROETHANE	8.09	62	348782	22.63	PPBV	99
50) BENZENE	8.69	78	883730	23.24	PPBV	100
51) CYCLOHEXANE	8.86	84	471044	23.29	PPBV	99

(#) = qualifier out of range (m) = manual integration
3W31654.D M3W1230.M Fri Jan 11 11:55:59 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31654.D Vial: 27
Acq On : 10 Jan 2013 11:42 pm Operator: yunxiac
Sample : IC1230-20 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:32 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

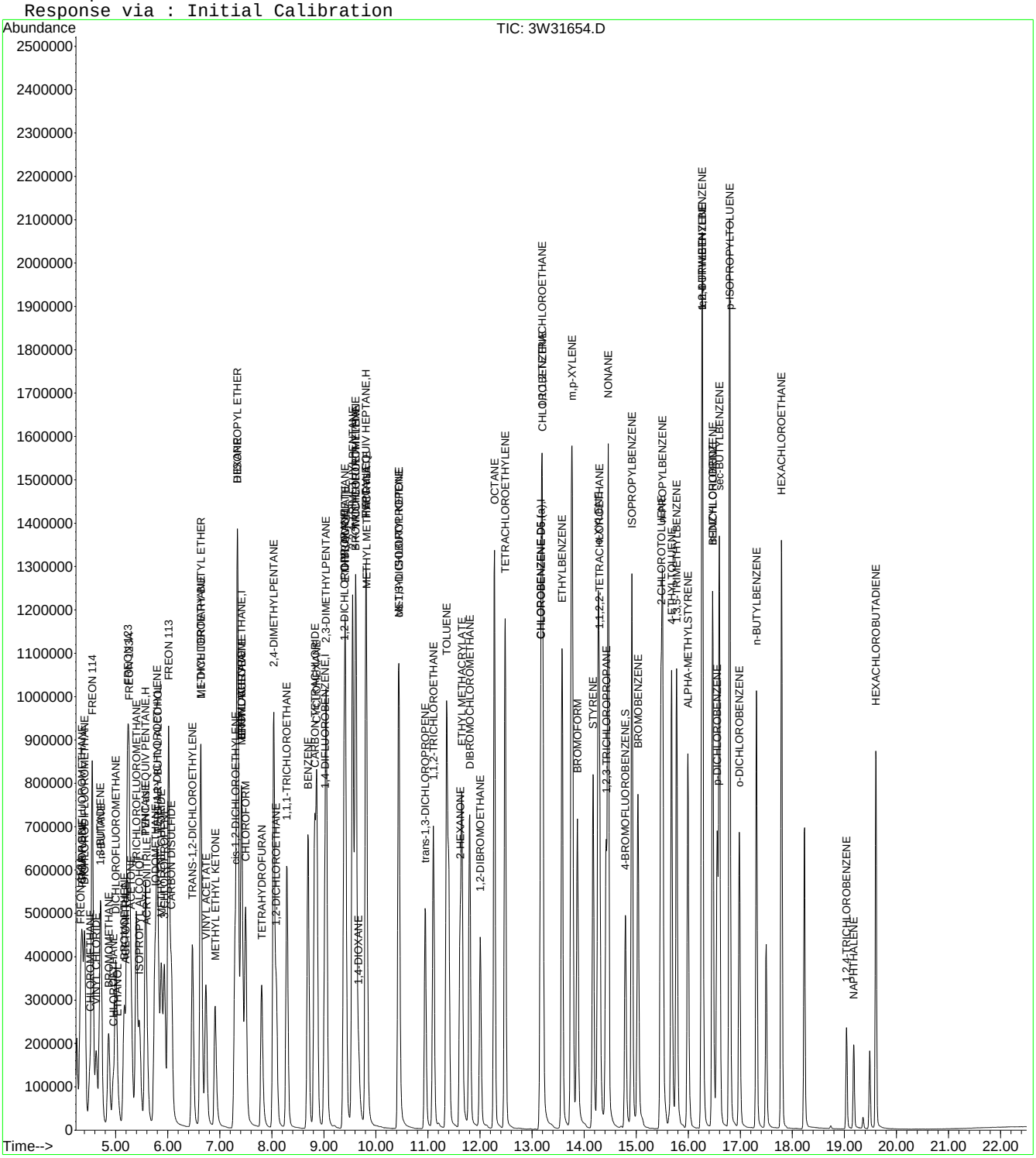
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	2,3-DIMETHYLPENTANE	9.05	71	213035	23.85	PPBV	96
53)	TRICHLOROETHYLENE	9.62	95	365459	24.15	PPBV	99
54)	1,2-DICHLOROPROPANE	9.39	63	365034	24.00	PPBV	100
55)	DIBROMOMETHANE	9.41	174	327252	23.62	PPBV	98
56)	ETHYL ACRYLATE	9.42	55	646097	24.71	PPBV	100
57)	BROMODICHLOROMETHANE	9.60	83	620027	23.79	PPBV	100
58)	2,2,4-TRIMETHYLPENTANE	9.55	57	1519351	23.46	PPBV	100
59)	1,4-DIOXANE	9.67	88	187092	24.58	PPBV	99
60)	HEPTANE	9.81	43	598129	24.09	PPBV	99
61)	TVHC as EQUIV HEPTANE	9.81	TIC	3829056m	24.09	PPBV	
62)	METHYL METHACRYLATE	9.83	69	320556	24.30	PPBV	100
63)	METHYL ISOBUTYL KETONE	10.43	58	251813	25.68	PPBV	100
64)	cis-1,3-DICHLOROPROPENE	10.44	75	479292	24.38	PPBV	99
65)	TOLUENE	11.36	92	588066	23.78	PPBV	99
66)	trans-1,3-DICHLOROPROPENE	10.95	75	426078	24.86	PPBV	98
67)	1,1,2-TRICHLOROETHANE	11.10	83	296188	23.57	PPBV	99
69)	2-HEXANONE	11.61	58	327366	23.82	PPBV	99
70)	ETHYL METHACRYLATE	11.65	69	506350	22.91	PPBV	100
71)	TETRACHLOROETHYLENE	12.48	164	375903	21.58	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.80	129	576185	21.84	PPBV	100
73)	1,2-DIBROMOETHANE	12.00	107	453497	22.23	PPBV	99
74)	OCTANE	12.28	43	784790	21.78	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.18	131	427810	21.84	PPBV	99
76)	CHLOROBENZENE	13.20	112	697593	22.12	PPBV	100
77)	ETHYLBENZENE	13.57	91	1146816	21.62	PPBV	99
78)	m,p-XYLENE	13.77	106	873316	44.58	PPBV	96
79)	o-XYLENE	14.27	106	420903	21.99	PPBV	99
80)	STYRENE	14.18	104	589835	22.74	PPBV	100
81)	NONANE	14.46	43	742508	22.11	PPBV	99
82)	BROMOFORM	13.87	173	501964	22.35	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.30	83	587912	21.88	PPBV	100
85)	1,2,3-TRICHLOROPROPANE	14.42	75	457539	22.31	PPBV	100
86)	ISOPROPYLBENZENE	14.92	105	1200155	21.75	PPBV	99
87)	BROMOBENZENE	15.03	77	521921	22.64	PPBV	99
88)	2-CHLOROTOLUENE	15.48	126	283539	22.33	PPBV	99
89)	n-PROPYLBENZENE	15.51	120	302458	22.44	PPBV	99
90)	4-ETHYLTOLUENE	15.68	105	987480	22.48	PPBV	99
91)	1,3,5-TRIMETHYLBENZENE	15.78	105	842259	22.18	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.99	118	384022	23.33	PPBV	99
93)	tert-BUTYLBENZENE	16.26	134	216780	22.56	PPBV	95
94)	1,2,4-TRIMETHYLBENZENE	16.27	105	778561	22.50	PPBV	98
95)	m-DICHLOROBENZENE	16.47	146	434911	23.46	PPBV	100
96)	BENZYL CHLORIDE	16.47	91	542425	24.20	PPBV	99
97)	p-DICHLOROBENZENE	16.55	146	400004	23.53	PPBV	99
98)	sec-BUTYLBENZENE	16.60	134	242436	22.10	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.79	134	254865	22.82	PPBV	97
100)	o-DICHLOROBENZENE	16.98	146	392206	22.97	PPBV	99
101)	n-BUTYLBENZENE	17.31	134	192355	23.13	PPBV	98
102)	HEXACHLOROETHANE	17.79	117	352728	22.48	PPBV	99
103)	HEXACHLOROBUTADIENE	19.61	225	199035	21.09	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.04	180	97479	26.37	PPBV	99
106)	NAPHTHALENE	19.18	128	190727	27.64	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W31654.D M3W1230.M Fri Jan 11 11:55:59 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31654.D Vial: 27
Acq On : 10 Jan 2013 11:42 pm Operator: yunxiac
Sample : IC1230-20 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:58 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

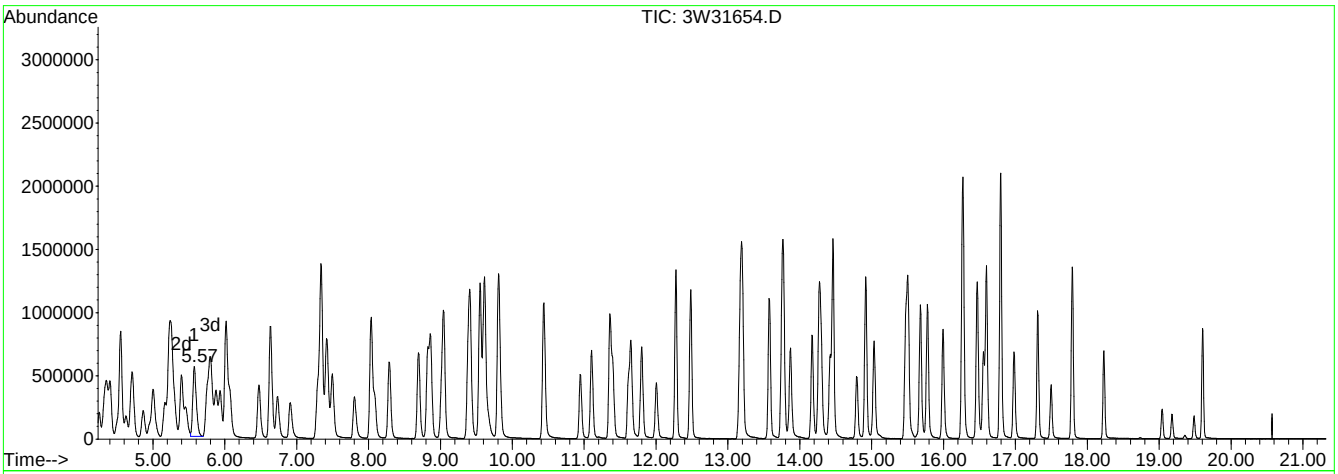


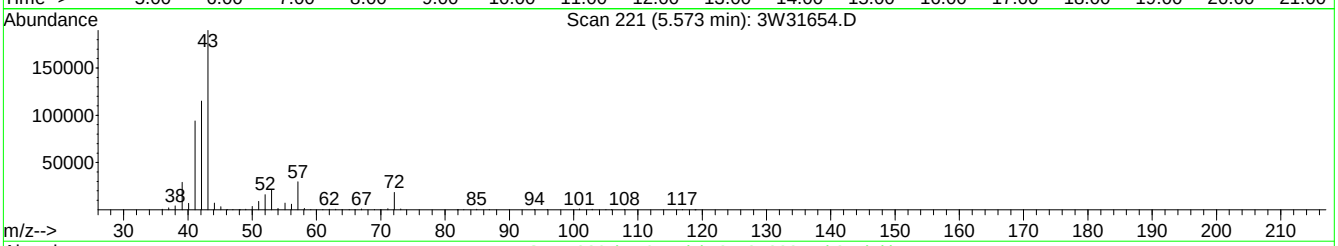
3W31654.D M3W1230.M Fri Jan 11 11:55:59 2013 MS3W Page 3

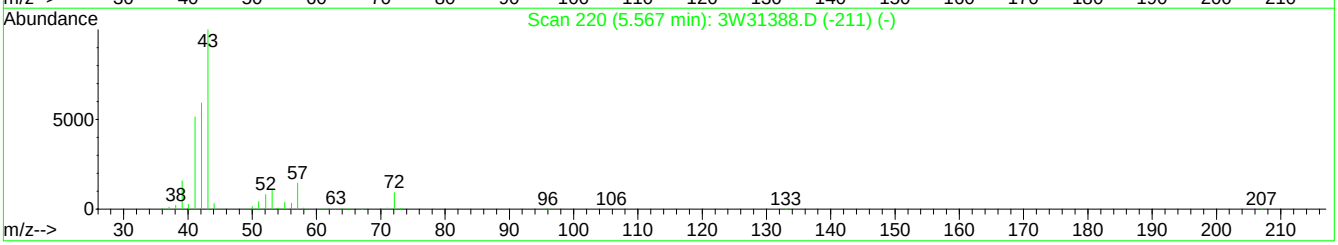
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31654.D Vial: 27
Acq On : 10 Jan 2013 11:42 pm Operator: yunxiac
Sample : IC1230-20 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:58 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31654.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 22.68PPBV m

response 1896821

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	1.23#
0.00	0.80	1.10#
0.00	0.00	0.00

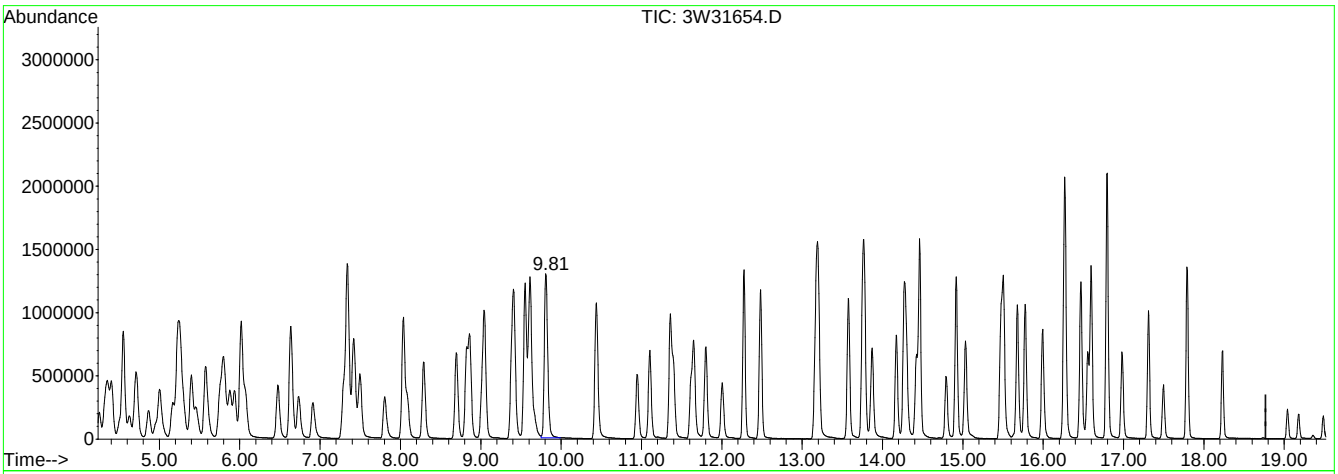
3W31654.D M3W1230.M Fri Jan 11 11:54:49 2013 MS3W

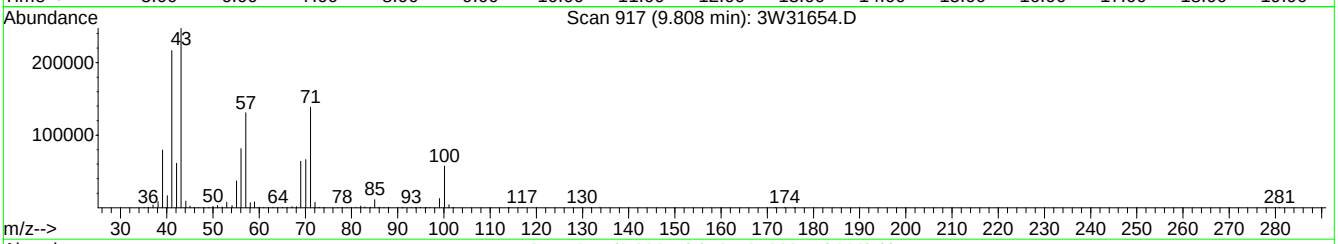
ACCUTEST LABORATORIES
JB29729
3W31654.D edits: TVHC as EQUIV PENTANE

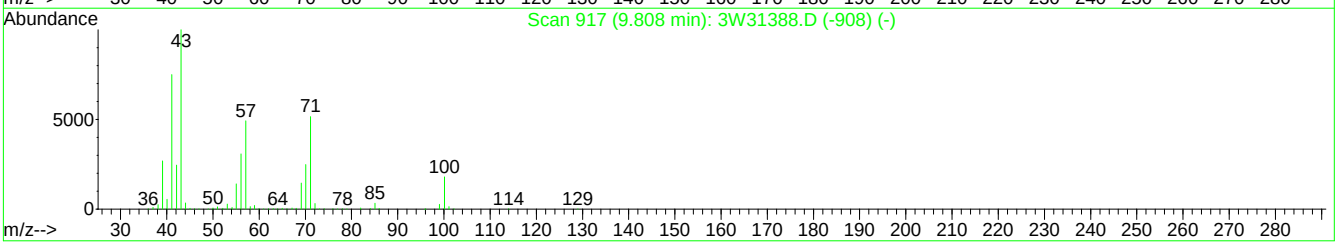
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31654.D Vial: 27
Acq On : 10 Jan 2013 11:42 pm Operator: yunxiac
Sample : IC1230-20 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:58 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31654.D

(61) TVHC as EQUIV HEPTANE (H)

9.81min 24.09PPBV m

response 3829056

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.61#
0.00	0.40	0.55#
0.00	0.00	0.00

3W31654.D M3W1230.M Fri Jan 11 11:57:24 2013 MS3W

3W31654.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31655.D Vial: 28
Acq On : 11 Jan 2013 12:22 am Operator: yunxiac
Sample : IC1230-40 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:34 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.42	128	98751	10.00	PPBV	0.01
49) 1,4-DIFLUOROBENZENE	9.02	114	469471	10.00	PPBV	0.01
68) CHLOROBENZENE-D5	13.17	82	278258	10.00	PPBV	0.02
105) CHLOROBENZENE-D5 (a)	13.17	82	278258	10.00	PPBV	0.02
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.80	95	282596	9.25	PPBV	0.02
Spiked Amount 10.000	Range 65 - 128		Recovery = 92.50%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	371208	41.30	PPBV	98
4) CHLORODIFLUOROMETHANE	4.34	67	138479	42.54	PPBV	87
5) DICHLORODIFLUOROMETHANE	4.41	85	1301095	41.24	PPBV	99
6) PROPYLENE	4.36	41	486653	41.40	PPBV	99
7) FREON 114	4.55	85	1552322	40.94	PPBV	99
8) CHLOROMETHANE	4.50	50	658530	41.99	PPBV	100
9) VINYL CHLORIDE	4.62	62	626062	41.36	PPBV	98
10) 1,3-BUTADIENE	4.70	54	489693	43.78	PPBV	99
11) n-BUTANE	4.72	43	999120	40.93	PPBV	99
12) BROMOMETHANE	4.87	94	557570	41.76	PPBV	99
13) CHLOROETHANE	4.95	64	339213	42.12	PPBV	100
14) DICHLOROFLUOROMETHANE	5.00	67	1303140	41.51	PPBV	99
15) ACETONITRILE	5.18	41	481055	46.64	PPBV	99
16) FREON 123	5.23	83	1359043	40.83	PPBV	98
17) FREON 123A	5.26	117	779991	42.28	PPBV	98
18) TRICHLOROFLUOROMETHANE	5.40	101	1325823	40.64	PPBV	98
19) ISOPROPYL ALCOHOL	5.47	45	1127772	45.39	PPBV	100
20) ACETONE	5.30	58	287878	44.32	PPBV	96
21) PENTANE	5.57	42	650440	41.75	PPBV	100
22) TVHC as EQUIV PENTANE	5.57	TIC	3880027m	43.05	PPBV	
23) IODOMETHANE	5.76	142	1478010	41.70	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.79	96	591404	42.22	PPBV	99
25) CARBON DISULFIDE	6.07	76	1599765	41.49	PPBV	99
26) ETHANOL	5.05	45	256624	44.31	PPBV	99
27) BROMOETHENE	5.16	106	576917	42.10	PPBV	99
28) ACRYLONITRILE	5.61	52	385794	45.86	PPBV	99
29) METHYLENE CHLORIDE	5.88	84	501807	42.19	PPBV	99
30) 3-CHLOROPROPENE	5.94	76	277048	43.06	PPBV	98
31) FREON 113	6.02	151	961534	42.04	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.48	96	576723	43.32	PPBV	100
33) TERTIARY BUTYL ALCOHOL	5.84	59	1307198	45.63	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.64	73	1627362	42.09	PPBV	99
35) TETRAHYDROFURAN	7.81	72	283221	42.73	PPBV	99
36) HEXANE	7.34	57	972578	42.09	PPBV	96
37) VINYL ACETATE	6.74	86	134534	44.80	PPBV	99
38) 1,1-DICHLOROETHANE	6.64	63	1124441	41.34	PPBV	99
39) METHYL ETHYL KETONE	6.92	72	294375	44.38	PPBV	97
40) cis-1,2-DICHLOROETHYLENE	7.30	96	614745	42.74	PPBV	99
41) DIISOPROPYL ETHER	7.35	45	2207696	40.52	PPBV	99
42) ETHYL ACETATE	7.42	61	227038	45.00	PPBV #	85
43) METHYL ACRYLATE	7.44	55	1054580	45.27	PPBV	100
44) CHLOROFORM	7.50	83	1161789	41.41	PPBV	100
45) 2,4-DIMETHYLPENTANE	8.04	57	1211181	41.67	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.29	97	1141653	41.56	PPBV	99
47) CARBON TETRACHLORIDE	8.83	117	1202180	42.01	PPBV	99
48) 1,2-DICHLOROETHANE	8.09	62	716036	43.10	PPBV	99
50) BENZENE	8.70	78	1809947	43.40	PPBV	99
51) CYCLOHEXANE	8.86	84	988287	44.55	PPBV	99

(#) = qualifier out of range (m) = manual integration
3W31655.D M3W1230.M Fri Jan 11 11:56:01 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31655.D Vial: 28
Acq On : 11 Jan 2013 12:22 am Operator: yunxiac
Sample : IC1230-40 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 08:53:34 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 08:47:40 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

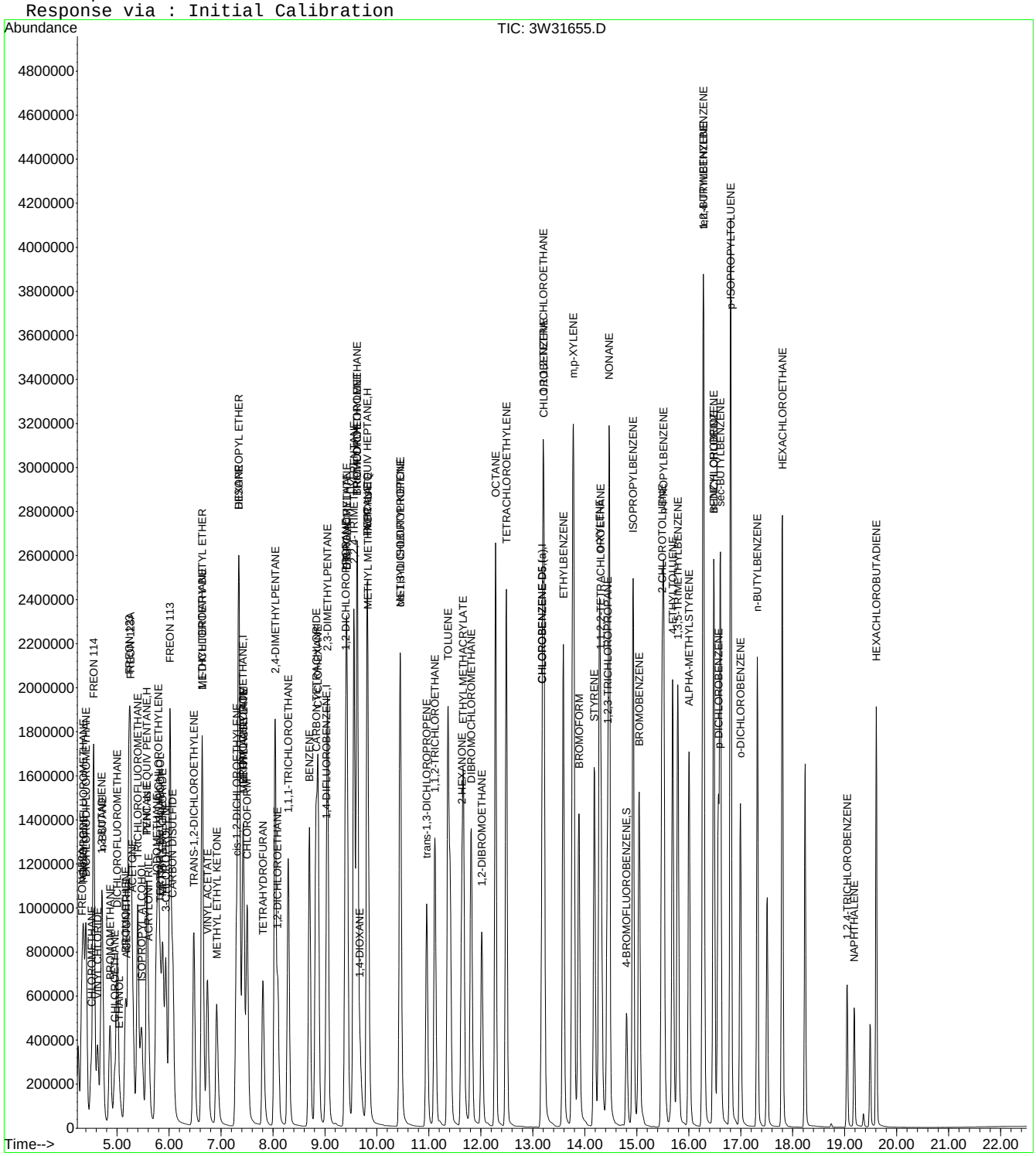
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	2,3-DIMETHYLPENTANE	9.05	71	449976	45.93	PPBV		90
53)	TRICHLOROETHYLENE	9.63	95	765385	46.12	PPBV		98
54)	1,2-DICHLOROPROPANE	9.39	63	751845	45.06	PPBV		100
55)	DIBROMOMETHANE	9.42	174	714069	46.98	PPBV		99
56)	ETHYL ACRYLATE	9.42	55	1347780	46.99	PPBV		99
57)	BROMODICHLOROMETHANE	9.61	83	1259530	44.06	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.56	57	3006983	42.34	PPBV		99
59)	1,4-DIOXANE	9.67	88	415789	49.80	PPBV		99
60)	HEPTANE	9.81	43	1170539	42.99	PPBV		96
61)	TVHC as EQUIV HEPTANE	9.81	TIC	7804081m	44.77	PPBV		
62)	METHYL METHACRYLATE	9.83	69	676846	46.79	PPBV		93
63)	METHYL ISOBUTYL KETONE	10.45	58	553342	51.44	PPBV		96
64)	cis-1,3-DICHLOROPROPENE	10.45	75	1020340	47.33	PPBV		98
65)	TOLUENE	11.37	92	1238781	45.68	PPBV		96
66)	trans-1,3-DICHLOROPROPENE	10.96	75	934497	49.71	PPBV		99
67)	1,1,2-TRICHLOROETHANE	11.12	83	622175	45.13	PPBV		99
69)	2-HEXANONE	11.63	58	741840	46.15	PPBV		97
70)	ETHYL METHACRYLATE	11.66	69	1092080	42.26	PPBV		98
71)	TETRACHLOROETHYLENE	12.49	164	811032	39.82	PPBV		100
72)	DIBROMOCHLOROMETHANE	11.82	129	1229138	39.84	PPBV		99
73)	1,2-DIBROMOETHANE	12.02	107	990868	41.54	PPBV		100
74)	OCTANE	12.28	43	1549444	36.77	PPBV		95
75)	1,1,1,2-TETRACHLOROETHANE	13.20	131	901616	39.36	PPBV		100
76)	CHLOROBENZENE	13.21	112	1493529	40.49	PPBV		99
77)	ETHYLBENZENE	13.59	91	2383431	38.42	PPBV		97
78)	m,p-XYLENE	13.78	106	1878103	81.99	PPBV		90
79)	o-XYLENE	14.28	106	913395	40.81	PPBV		95
80)	STYRENE	14.18	104	1300564	42.87	PPBV		100
81)	NONANE	14.47	43	1440070	36.67	PPBV		96
82)	BROMOFORM	13.89	173	1103773	42.03	PPBV		98
84)	1,1,2,2-TETRACHLOROETHANE	14.31	83	1235764	39.32	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.44	75	980300	40.87	PPBV		99
86)	ISOPROPYLBENZENE	14.93	105	2489315	38.59	PPBV		98
87)	BROMOBENZENE	15.05	77	1122982	41.66	PPBV		99
88)	2-CHLOROTOLUENE	15.48	126	614717	41.39	PPBV		99
89)	n-PROPYLBENZENE	15.51	120	664722	42.17	PPBV		99
90)	4-ETHYLTOLUENE	15.69	105	2081793	40.53	PPBV		97
91)	1,3,5-TRIMETHYLBENZENE	15.79	105	1756148	39.54	PPBV		98
92)	ALPHA-METHYLSTYRENE	16.01	118	849830	44.15	PPBV		99
93)	tert-BUTYLBENZENE	16.27	134	461243	41.04	PPBV	#	89
94)	1,2,4-TRIMETHYLBENZENE	16.29	105	1647240	40.70	PPBV		96
95)	m-DICHLOROBENZENE	16.48	146	962826	44.40	PPBV		98
96)	BENZYL CHLORIDE	16.49	91	1222636	46.64	PPBV		98
97)	p-DICHLOROBENZENE	16.57	146	909528	45.75	PPBV		99
98)	sec-BUTYLBENZENE	16.61	134	526008	41.01	PPBV	#	88
99)	p-ISOPROPYLTOLUENE	16.80	134	547277	41.90	PPBV	#	88
100)	o-DICHLOROBENZENE	16.99	146	862392	43.19	PPBV		99
101)	n-BUTYLBENZENE	17.32	134	424825	43.68	PPBV	#	90
102)	HEXACHLOROETHANE	17.80	117	740371	40.35	PPBV		99
103)	HEXACHLOROBUTADIENE	19.61	225	414391	37.54	PPBV		99
104)	1,2,4-TRICHLOROBENZENE	19.05	180	264198	61.12	PPBV		99
106)	NAPHTHALENE	19.18	128	524292	64.85	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W31655.D M3W1230.M Fri Jan 11 11:56:01 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31655.D Vial: 28
Acq On : 11 Jan 2013 12:22 am Operator: yunxiac
Sample : IC1230-40 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:59 2013 Quant Results File: M3W1230.RES

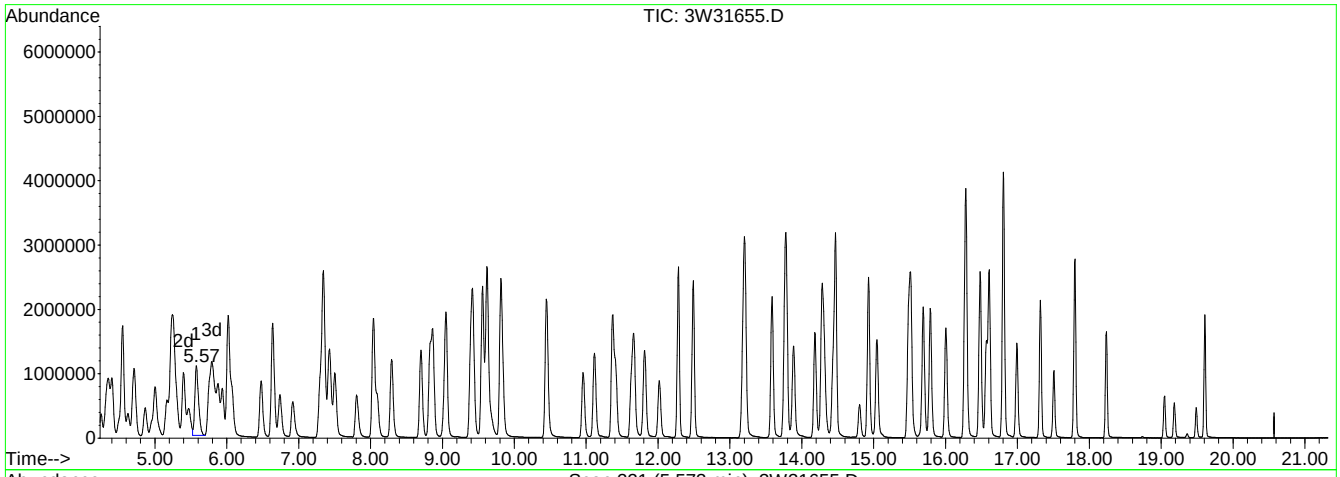
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

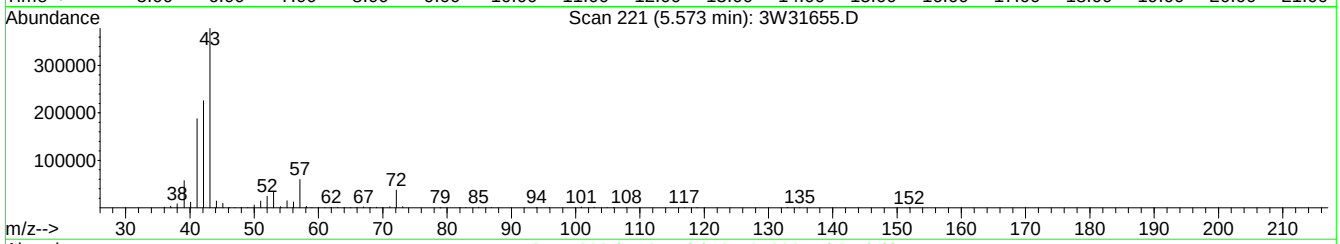


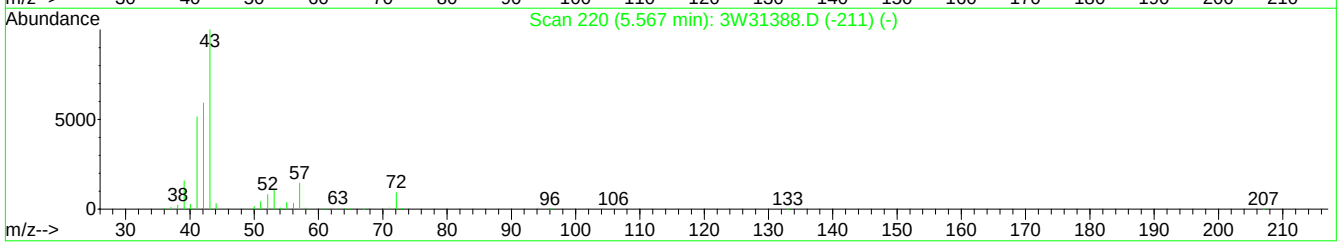
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31655.D Vial: 28
Acq On : 11 Jan 2013 12:22 am Operator: yunxiac
Sample : IC1230-40 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:59 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31655.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 43.05PPBV m

response 3880027

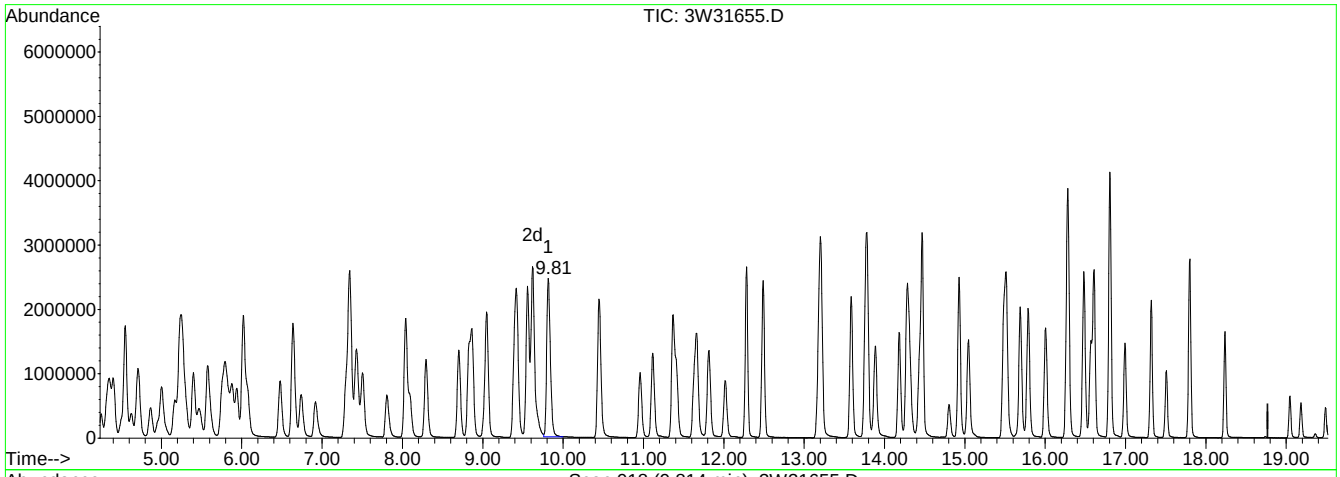
Signal	Exp%	Act%
TIC	100	100
0.00	1.00	1.73#
0.00	0.80	1.49#
0.00	0.00	0.00

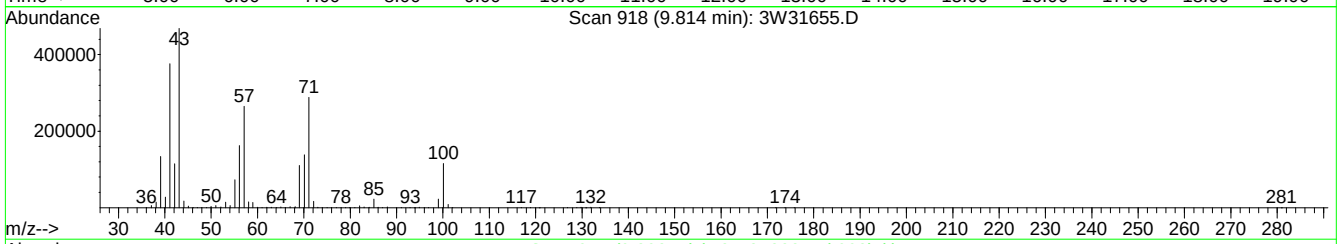
3W31655.D M3W1230.M Fri Jan 11 11:54:55 2013 MS3W

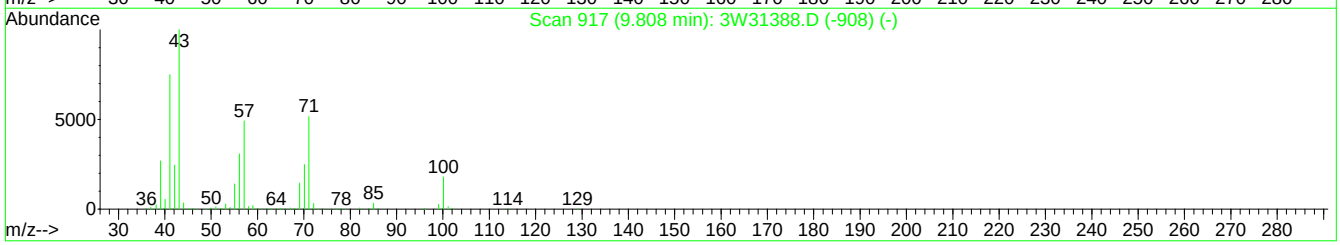
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31655.D Vial: 28
Acq On : 11 Jan 2013 12:22 am Operator: yunxiac
Sample : IC1230-40 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 8:59 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31655.D

(61) TVHC as EQUIV HEPTANE (H)

9.81min 44.77PPBV m

response 7804081

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.86#
0.00	0.40	0.74#
0.00	0.00	0.00

3W31655.D M3W1230.M Fri Jan 11 11:57:31 2013 MS3W

3W31655.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31658.D Vial: 3
Acq On : 11 Jan 2013 10:02 am Operator: yunxiac
Sample : IC1230-0.1 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:07:32 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 10:29:45 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	96634	10.00	PPBV		0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	417010	10.00	PPBV		-0.01
68) CHLOROBENZENE-D5	13.15	82	177770	10.00	PPBV		0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	178572	10.00	PPBV		0.00
System Monitoring Compounds							
83) 4-BROMOFLUOROBENZENE	14.78	95	152375	8.46	PPBV		0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 84.60%				
Target Compounds							Qvalue
5) DICHLORODIFLUOROMETHANE	4.41	85	3555	0.11	PPBV		95
7) FREON 114	4.55	85	4128	0.10	PPBV		96
9) VINYL CHLORIDE	4.63	62	1452	0.10	PPBV	#	93
10) 1,3-BUTADIENE	4.70	54	1104	0.10	PPBV	#	79
11) n-BUTANE	4.73	43	2850	0.11	PPBV		85
12) BROMOMETHANE	4.87	94	1250	0.09	PPBV	#	68
13) CHLOROETHANE	4.95	64	744	0.09	PPBV	#	35
14) DICHLOROFLUOROMETHANE	5.00	67	3224	0.10	PPBV	#	97
16) FREON 123	5.23	83	3168	0.09	PPBV		96
17) FREON 123A	5.26	117	1831	0.10	PPBV		94
18) TRICHLOROFLUOROMETHANE	5.39	101	3229	0.10	PPBV		99
19) ISOPROPYL ALCOHOL	5.49	45	2571	0.10	PPBV		79
22) TVHC as EQUIV PENTANE	5.57	TIC	8171m	0.09	PPBV		
23) IODOMETHANE	5.74	142	3436	0.10	PPBV		99
24) 1,1-DICHLOROETHYLENE	5.79	96	1340	0.09	PPBV		93
25) CARBON DISULFIDE	6.07	76	4295	0.11	PPBV		81
27) BROMOETHENE	5.16	106	1304	0.09	PPBV	#	91
30) 3-CHLOROPROPENE	5.93	76	513	0.08	PPBV	#	9
31) FREON 113	6.01	151	2207	0.10	PPBV		98
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	1182	0.09	PPBV		96
33) TERTIARY BUTYL ALCOHOL	5.85	59	2535	0.09	PPBV	#	83
34) METHYL TERTIARY BUTYL ETHE	6.67	73	3618	0.10	PPBV		91
36) HEXANE	7.33	57	2120	0.09	PPBV		97
38) 1,1-DICHLOROETHANE	6.63	63	2626	0.10	PPBV		95
40) cis-1,2-DICHLOROETHYLENE	7.28	96	1394	0.10	PPBV		93
41) DIISOPROPYL ETHER	7.38	45	4315	0.08	PPBV		89
44) CHLOROFORM	7.48	83	2731	0.10	PPBV	#	83
45) 2,4-DIMETHYLPENTANE	8.03	57	2648	0.09	PPBV		97
46) 1,1,1-TRICHLOROETHANE	8.29	97	2748	0.10	PPBV		97
47) CARBON TETRACHLORIDE	8.82	117	2696	0.09	PPBV		97
50) BENZENE	8.68	78	4196	0.11	PPBV		96
51) CYCLOHEXANE	8.86	84	2181	0.10	PPBV		95
53) TRICHLOROETHYLENE	9.61	95	1683	0.10	PPBV		97
55) DIBROMOMETHANE	9.39	174	1438	0.10	PPBV		93
57) BROMODICHLOROMETHANE	9.59	83	2665	0.10	PPBV		98
58) 2,2,4-TRIMETHYLPENTANE	9.55	57	7285	0.11	PPBV		100
60) HEPTANE	9.80	43	2767	0.11	PPBV		92
61) TVHC as EQUIV HEPTANE	9.80	TIC	13898m	0.09	PPBV		
64) cis-1,3-DICHLOROPROPENE	10.43	75	1745	0.09	PPBV		93
65) TOLUENE	11.35	92	2444	0.10	PPBV		96
67) 1,1,2-TRICHLOROETHANE	11.09	83	1209	0.10	PPBV		91
71) TETRACHLOROETHYLENE	12.47	164	1621	0.11	PPBV		96
72) DIBROMOCHLOROMETHANE	11.78	129	2032	0.10	PPBV		100
73) 1,2-DIBROMOETHANE	11.99	107	1538	0.10	PPBV	#	100
74) OCTANE	12.27	43	3008	0.11	PPBV		97
75) 1,1,1,2-TETRACHLOROETHANE	13.17	131	1560	0.10	PPBV		95
76) CHLOROBENZENE	13.20	112	2704	0.11	PPBV	#	46
77) ETHYLBENZENE	13.57	91	4107	0.10	PPBV		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31658.D Vial: 3
Acq On : 11 Jan 2013 10:02 am Operator: yunxiac
Sample : IC1230-0.1 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:07:32 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 10:29:45 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

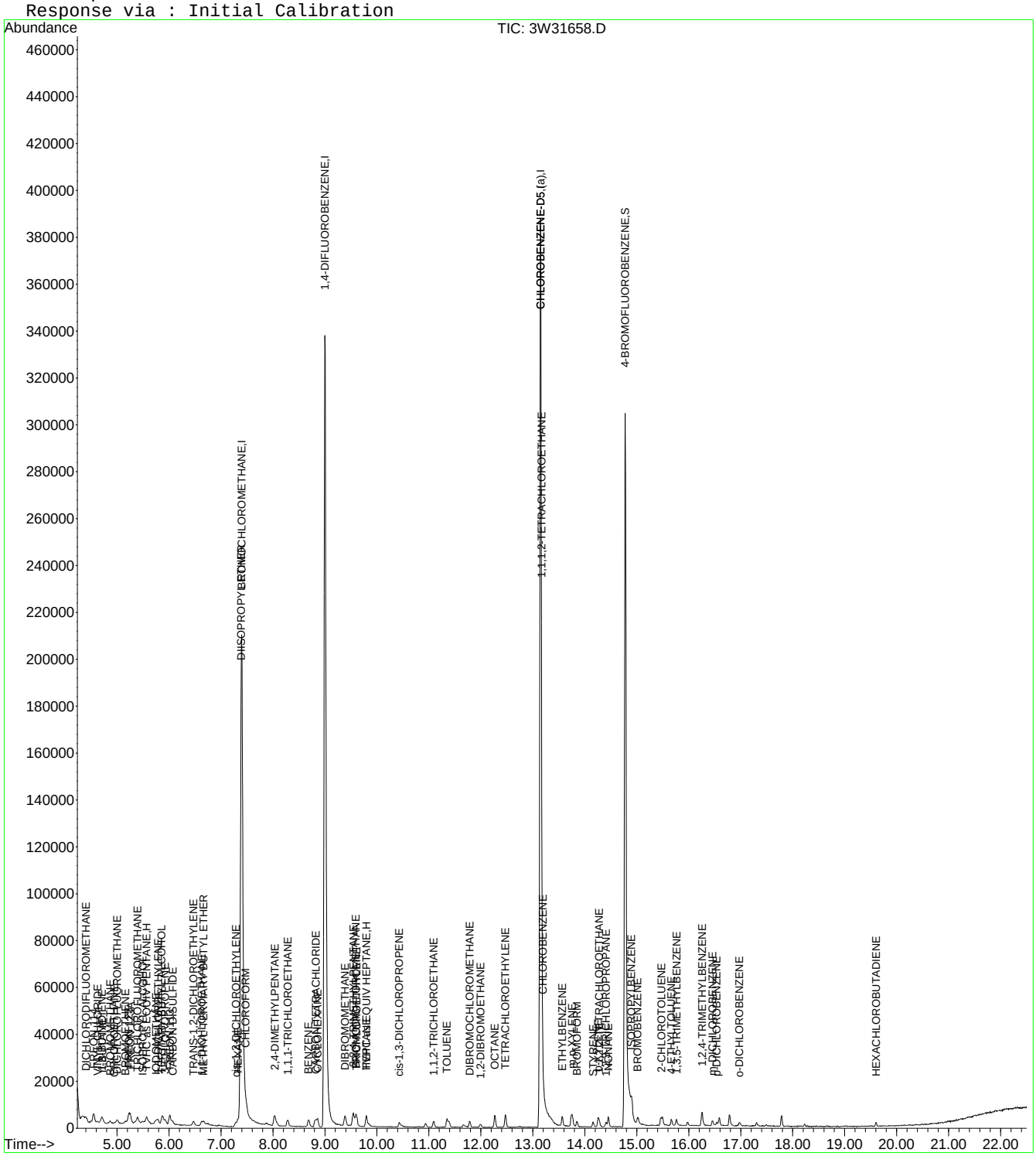
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78)	m,p-XYLENE	13.76	106	2962	0.20	PPBV		92
79)	o-XYLENE	14.25	106	1423	0.10	PPBV		96
80)	STYRENE	14.16	104	1429	0.08	PPBV		99
81)	NONANE	14.45	43	2112	0.09	PPBV	#	87
82)	BROMOFORM	13.85	173	1550	0.09	PPBV	#	92
84)	1,1,2,2-TETRACHLOROETHANE	14.28	83	1861	0.09	PPBV	#	94
85)	1,2,3-TRICHLOROPROPANE	14.40	75	1576	0.10	PPBV		88
86)	ISOPROPYLBENZENE	14.90	105	4194	0.10	PPBV		93
87)	BROMOBENZENE	15.02	77	1728	0.10	PPBV		94
88)	2-CHLOROTOLUENE	15.47	126	915	0.10	PPBV		86
90)	4-ETHYLTOLUENE	15.66	105	2693	0.09	PPBV	#	91
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	2665	0.10	PPBV		92
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	2079	0.08	PPBV	#	83
95)	m-DICHLOROBENZENE	16.46	146	1176	0.09	PPBV		92
97)	p-DICHLOROBENZENE	16.54	146	1257	0.10	PPBV		90
100)	o-DICHLOROBENZENE	16.97	146	1066	0.09	PPBV		92
103)	HEXACHLOROBUTADIENE	19.60	225	556	0.08	PPBV		92

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31658.D Vial: 3
Acq On : 11 Jan 2013 10:02 am Operator: yunxiac
Sample : IC1230-0.1 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:11 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

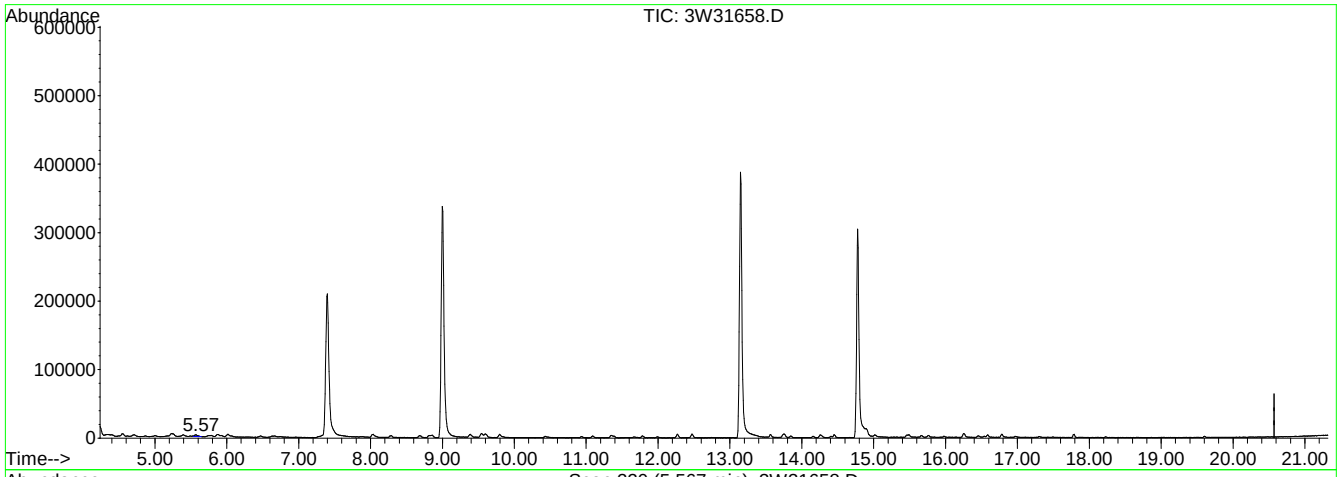


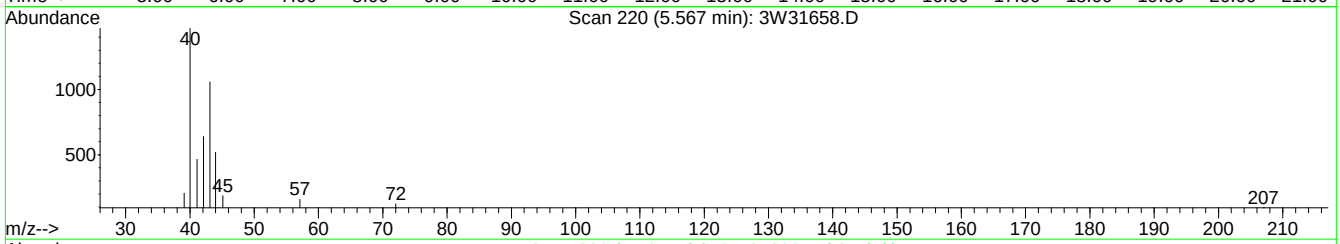
ACCUTEST LABORATORIES JB29729

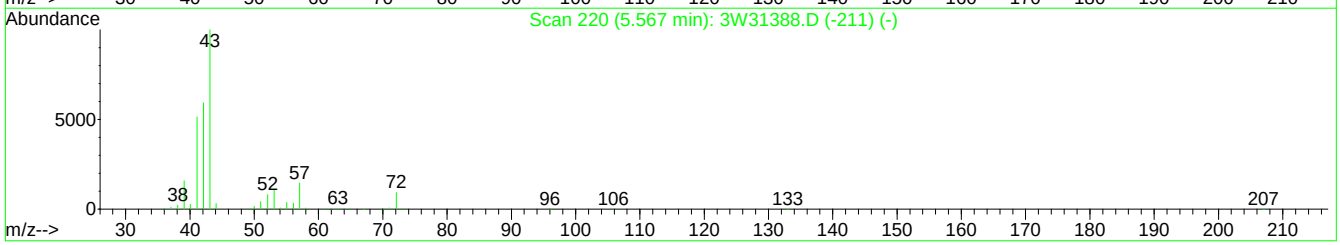
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31658.D Vial: 3
Acq On : 11 Jan 2013 10:02 am Operator: yunxiac
Sample : IC1230-0.1 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:11 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31658.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 0.09PPBV m

response 8171

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.00
0.00	0.80	0.00
0.00	0.00	0.00

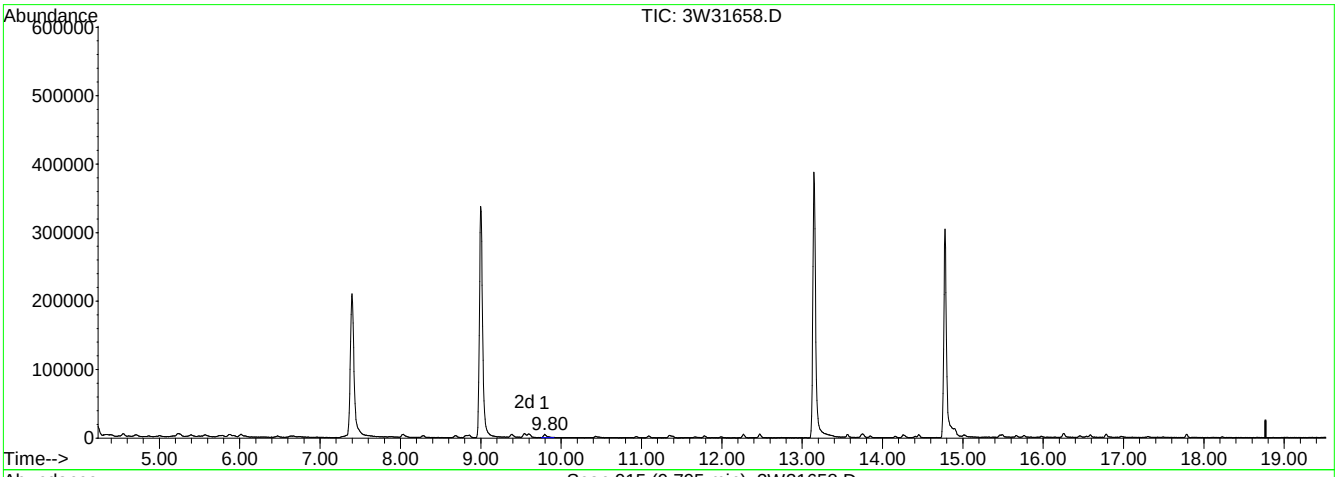
3W31658.D M3W1230.M Fri Jan 11 11:55:05 2013 MS3W

ACCUTEST LABORATORIES
JB29729
3W31658.D edits: TVHC as EQUIV PENTANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31658.D Vial: 3
Acq On : 11 Jan 2013 10:02 am Operator: yunxiac
Sample : IC1230-0.1 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:11 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W31658.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 0.09PPBV m

response 13898

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.00
0.00	0.40	0.00
0.00	0.00	0.00

3W31658.D M3W1230.M Fri Jan 11 11:57:38 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31659.D Vial: 3
Acq On : 11 Jan 2013 10:41 am Operator: yunxiac
Sample : IC1230-0.04 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:07:20 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 10:29:45 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	106419	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	454341	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.15	82	191697	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	191697	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.78	95	160991	8.29	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 82.90%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.41	85	1478	0.04	PPBV #	84
7) FREON 114	4.55	85	1623	0.04	PPBV	95
10) 1,3-BUTADIENE	4.70	54	479	0.04	PPBV #	53
11) n-BUTANE	4.73	43	1191	0.04	PPBV #	74
12) BROMOMETHANE	4.87	94	577	0.04	PPBV #	82
14) DICHLOROFLUOROMETHANE	5.00	67	1288	0.04	PPBV #	82
17) FREON 123A	5.24	117	742	0.04	PPBV	92
18) TRICHLOROFLUOROMETHANE	5.39	101	1233	0.03	PPBV #	96
22) TVHC as EQUIV PENTANE	5.57	TIC	4502m	0.05	PPBV	
24) 1,1-DICHLOROETHYLENE	5.79	96	561	0.04	PPBV #	79
31) FREON 113	6.02	151	894	0.04	PPBV	94
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	449	0.03	PPBV #	87
36) HEXANE	7.33	57	848	0.03	PPBV	91
38) 1,1-DICHLOROETHANE	6.62	63	1008	0.03	PPBV #	81
40) cis-1,2-DICHLOROETHYLENE	7.29	96	463	0.03	PPBV	92
44) CHLOROFORM	7.48	83	948	0.03	PPBV #	68
45) 2,4-DIMETHYLPENTANE	8.03	57	1040	0.03	PPBV	97
46) 1,1,1-TRICHLOROETHANE	8.29	97	1108	0.04	PPBV	88
47) CARBON TETRACHLORIDE	8.82	117	960	0.03	PPBV	93
50) BENZENE	8.69	78	1660	0.04	PPBV	86
51) CYCLOHEXANE	8.86	84	828	0.04	PPBV	92
53) TRICHLOROETHYLENE	9.61	95	665	0.04	PPBV	92
55) DIBROMOMETHANE	9.40	174	660	0.04	PPBV #	76
57) BROMODICHLOROMETHANE	9.59	83	1060	0.04	PPBV	95
58) 2,2,4-TRIMETHYLPENTANE	9.55	57	3009	0.04	PPBV #	96
60) HEPTANE	9.81	43	1093	0.04	PPBV	88
64) cis-1,3-DICHLOROPROPENE	10.43	75	601	0.03	PPBV	90
65) TOLUENE	11.35	92	957	0.04	PPBV #	94
67) 1,1,2-TRICHLOROETHANE	11.10	83	383	0.03	PPBV	90
71) TETRACHLOROETHYLENE	12.48	164	633	0.04	PPBV	93
72) DIBROMOCHLOROMETHANE	11.78	129	893	0.04	PPBV	85
73) 1,2-DIBROMOETHANE	11.99	107	622	0.04	PPBV #	95
74) OCTANE	12.27	43	1134	0.04	PPBV	90
75) 1,1,1,2-TETRACHLOROETHANE	13.17	131	560	0.03	PPBV	99
76) CHLOROBENZENE	13.20	112	1012	0.04	PPBV #	25
77) ETHYLBENZENE	13.57	91	1491	0.03	PPBV #	88
78) m,p-XYLENE	13.76	106	1103	0.07	PPBV #	86
79) o-XYLENE	14.25	106	525	0.03	PPBV #	83
80) STYRENE	14.16	104	530	0.03	PPBV	84
81) NONANE	14.45	43	815	0.03	PPBV #	57
82) BROMOFORM	13.85	173	552	0.03	PPBV #	82
86) ISOPROPYLBENZENE	14.91	105	1543	0.03	PPBV	95
87) BROMOBENZENE	15.02	77	759	0.04	PPBV #	85
90) 4-ETHYLTOLUENE	15.66	105	964	0.03	PPBV #	76
91) 1,3,5-TRIMETHYLBENZENE	15.77	105	935	0.03	PPBV #	80
94) 1,2,4-TRIMETHYLBENZENE	16.26	105	684	0.03	PPBV #	61
97) p-DICHLOROBENZENE	16.55	146	421	0.03	PPBV #	66
100) o-DICHLOROBENZENE	16.98	146	421	0.03	PPBV #	64

(#) = qualifier out of range (m) = manual integration
3W31659.D M3W1230.M Fri Jan 11 11:56:06 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31659.D Vial: 3
Acq On : 11 Jan 2013 10:41 am Operator: yunxiac
Sample : IC1230-0.04 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:07:20 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 10:29:45 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

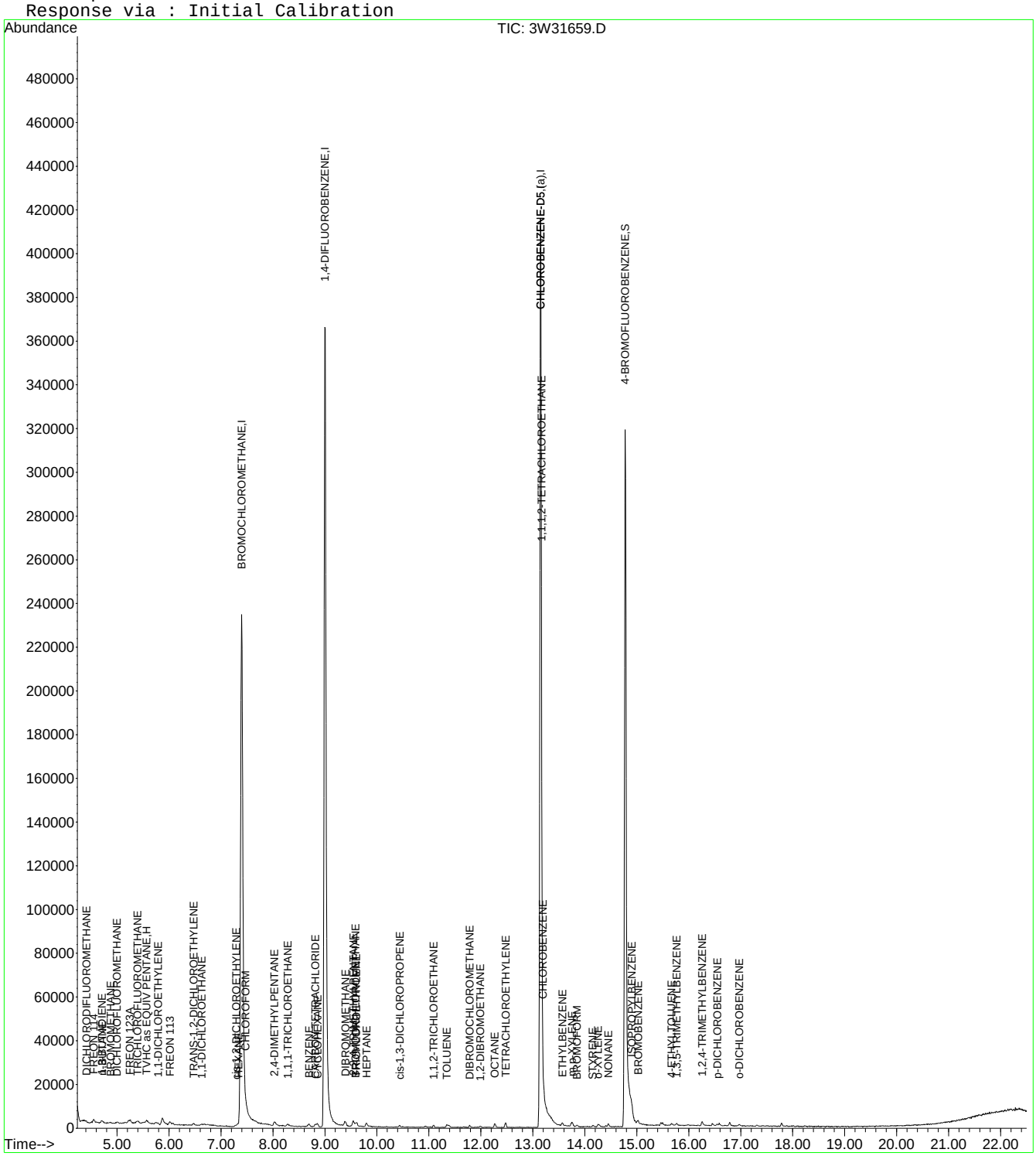
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31659.D Vial: 3
Acq On : 11 Jan 2013 10:41 am Operator: yunxiac
Sample : IC1230-0.04 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:43 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

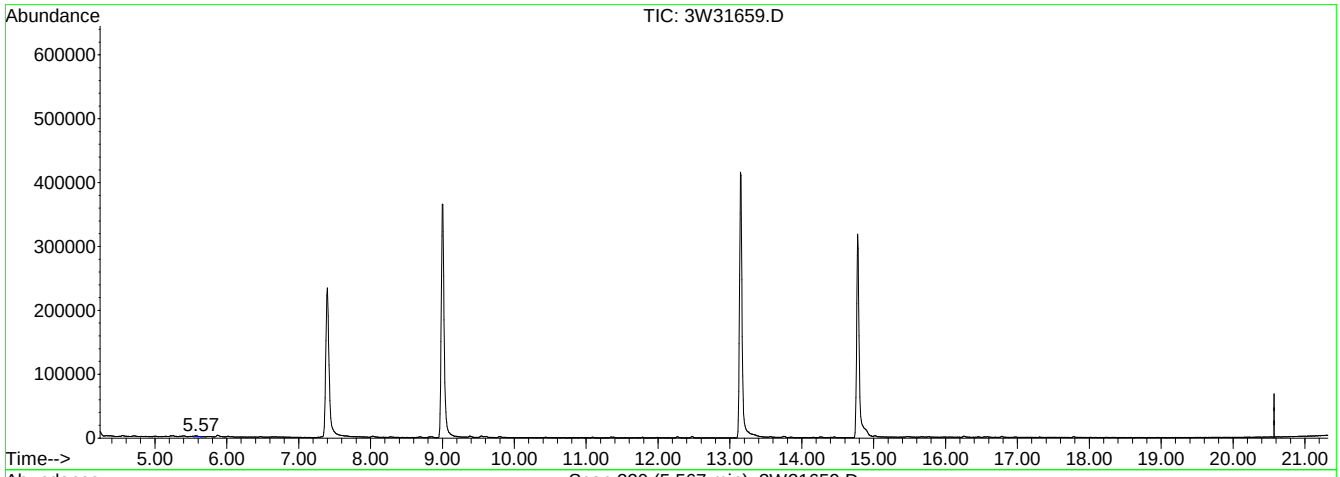


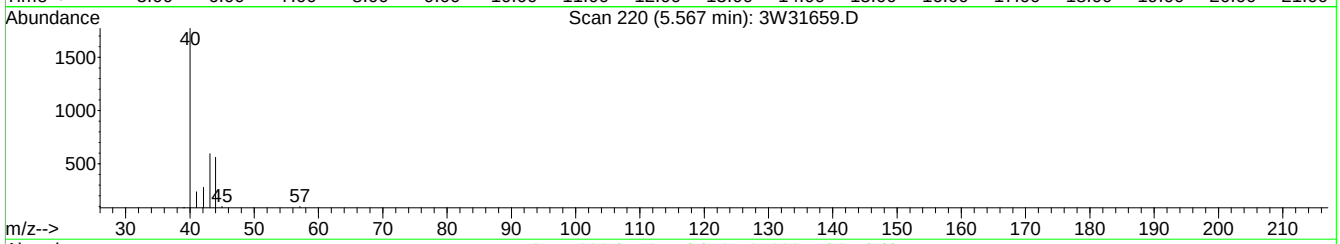
ACCUTEST LABORATORIES JB29729

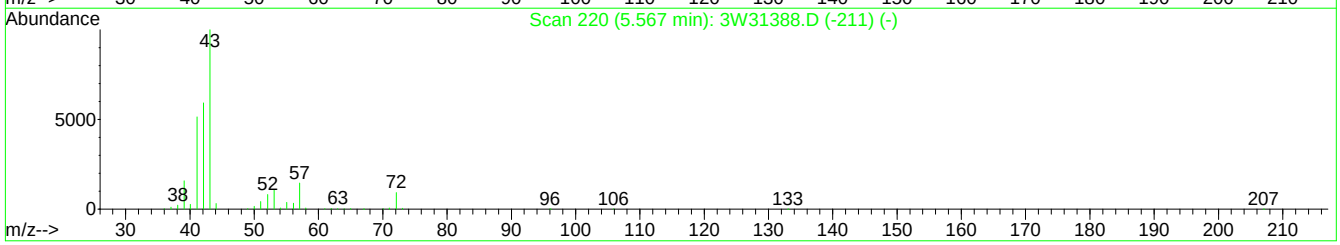
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31659.D Vial: 3
Acq On : 11 Jan 2013 10:41 am Operator: yunxiac
Sample : IC1230-0.04 Inst : MS3W
Misc : MS40550,V3W1230,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 11:43 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31659.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 0.05PPBV m

response 4502

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.00
0.00	0.80	0.00
0.00	0.00	0.00

3W31659.D M3W1230.M Fri Jan 11 11:55:17 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31662.D Vial: 3
Acq On : 11 Jan 2013 1:00 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS40550,V3W1231,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 14:10:56 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	111999	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	515095	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.15	82	266993	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	267316	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.78	95	288072	10.85	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.50%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	98020	8.62	PPBV	98
4) CHLORODIFLUOROMETHANE	4.35	67	38960	9.51	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.41	85	376023	9.64	PPBV	99
6) PROPYLENE	4.36	41	136592	9.42	PPBV	99
7) FREON 114	4.55	85	453943	9.97	PPBV	99
8) CHLOROMETHANE	4.50	50	192184	9.95	PPBV	100
9) VINYL CHLORIDE	4.62	62	174342	9.91	PPBV	98
10) 1,3-BUTADIENE	4.70	54	135783	10.25	PPBV	99
11) n-BUTANE	4.72	43	289028	9.69	PPBV	100
12) BROMOMETHANE	4.86	94	159153	10.17	PPBV	99
13) CHLOROETHANE	4.95	64	96586	10.34	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	376943	10.24	PPBV	100
15) ACETONITRILE	5.18	41	124193	10.38	PPBV	99
16) FREON 123	5.22	83	394737	10.18	PPBV	100
17) FREON 123A	5.26	117	218307	10.10	PPBV	99
18) TRICHLOROFLUOROMETHANE	5.40	101	388927	10.33	PPBV	100
19) ISOPROPYL ALCOHOL	5.46	45	284917	9.64	PPBV	99
20) ACETONE	5.31	58	76641	10.16	PPBV	99
21) PENTANE	5.57	42	186273	10.13	PPBV	100
22) TVHC as EQUIV PENTANE	5.57	TIC	1061385m	10.06	PPBV	
23) IODOMETHANE	5.75	142	414384	10.05	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.79	96	166016	10.23	PPBV	99
25) CARBON DISULFIDE	6.07	76	459134	9.81	PPBV	99
26) ETHANOL	5.05	45	68122	9.57	PPBV	99
27) BROMOETHENE	5.16	106	162072	10.14	PPBV	99
28) ACRYLONITRILE	5.60	52	98234	10.62	PPBV	99
29) METHYLENE CHLORIDE	5.88	84	142137	9.06	PPBV	99
30) 3-CHLOROPROPENE	5.93	76	76216	10.46	PPBV	99
31) FREON 113	6.02	151	266798	10.13	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	155057	10.36	PPBV	100
33) TERTIARY BUTYL ALCOHOL	5.81	59	325442	9.86	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	6.64	73	440161	10.03	PPBV	100
35) TETRAHYDROFURAN	7.80	72	74420	10.22	PPBV	99
36) HEXANE	7.33	57	265549	10.16	PPBV	99
37) VINYL ACETATE	6.73	86	34166	10.67	PPBV	98
38) 1,1-DICHLOROETHANE	6.63	63	316375	10.17	PPBV	100
39) METHYL ETHYL KETONE	6.91	72	73738	10.28	PPBV	95
40) cis-1,2-DICHLOROETHYLENE	7.28	96	165204	10.33	PPBV	99
41) DIISOPROPYL ETHER	7.34	45	617449	10.30	PPBV	93
42) ETHYL ACETATE	7.41	61	59455	10.11	PPBV #	93
43) METHYL ACRYLATE	7.42	55	265652	10.38	PPBV	100
44) CHLOROFORM	7.49	83	327052	10.21	PPBV	99
45) 2,4-DIMETHYLPENTANE	8.03	57	329981	10.15	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.29	97	316286	9.94	PPBV	100
47) CARBON TETRACHLORIDE	8.82	117	329705	10.26	PPBV	100
48) 1,2-DICHLOROETHANE	8.08	62	194288	10.11	PPBV	99
50) BENZENE	8.69	78	496934	10.30	PPBV	100
51) CYCLOHEXANE	8.86	84	265637	10.38	PPBV	99

(#) = qualifier out of range (m) = manual integration
3W31662.D M3W1230.M Mon Jan 14 10:00:44 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31662.D Vial: 3
Acq On : 11 Jan 2013 1:00 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS40550,V3W1231,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 14:10:56 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

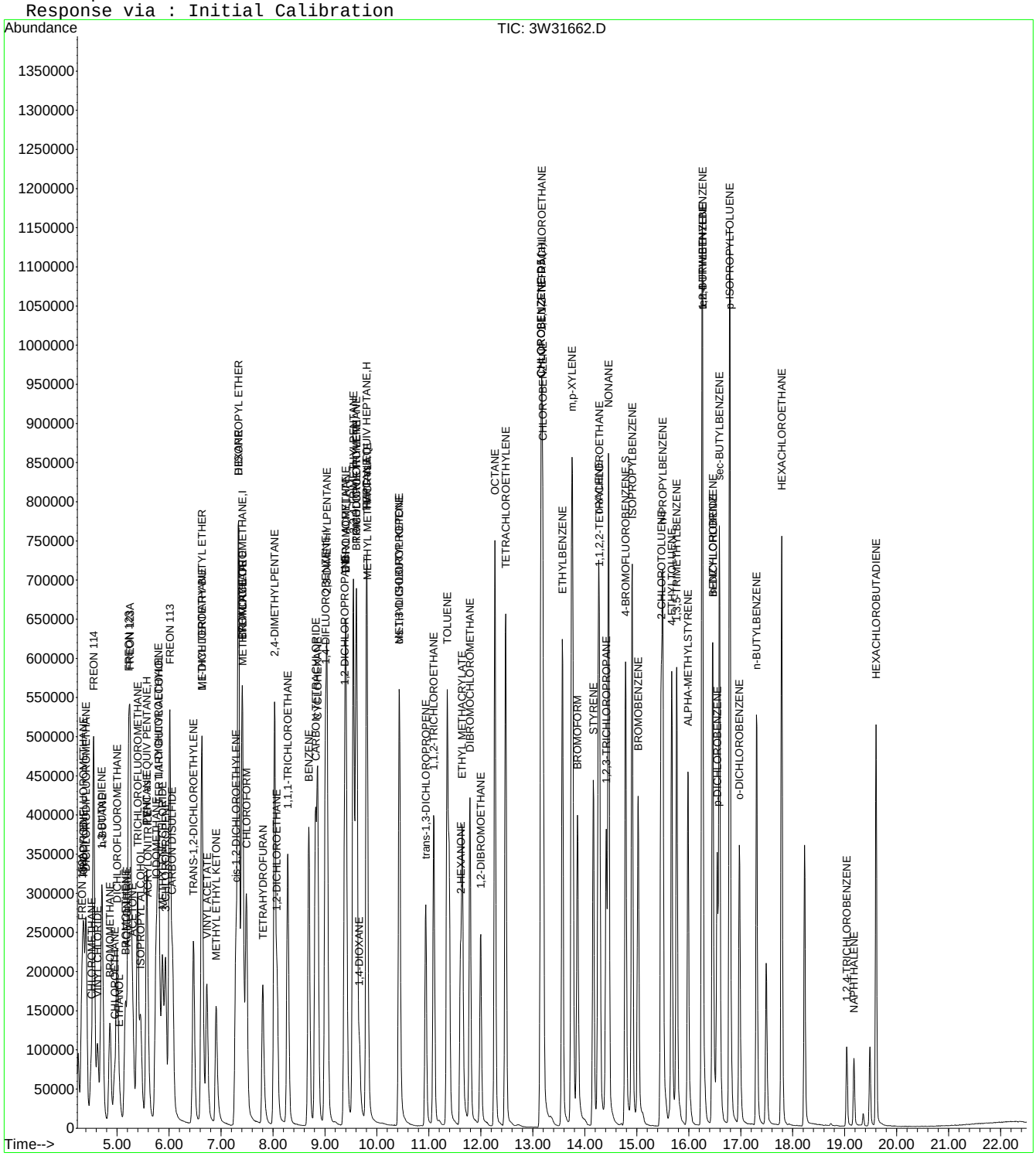
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	2,3-DIMETHYLPENTANE	9.04	71	118803	9.91	PPBV	98
53)	TRICHLOROETHYLENE	9.61	95	199810	10.14	PPBV	99
54)	1,2-DICHLOROPROPANE	9.38	63	199035	10.48	PPBV	99
55)	DIBROMOMETHANE	9.41	174	182528	10.39	PPBV	100
56)	ETHYL ACRYLATE	9.41	55	332288	10.64	PPBV	99
57)	BROMODICHLOROMETHANE	9.59	83	346489	10.74	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.55	57	850318	10.27	PPBV	100
59)	1,4-DIOXANE	9.66	88	93757	10.12	PPBV	97
60)	HEPTANE	9.80	43	329227	10.44	PPBV	100
61)	TVHC as EQUIV HEPTANE	9.80	TIC	2103523m	10.81	PPBV	
62)	METHYL METHACRYLATE	9.82	69	169571	10.71	PPBV	96
63)	METHYL ISOBUTYL KETONE	10.42	58	119947	10.43	PPBV	99
64)	cis-1,3-DICHLOROPROPENE	10.43	75	259945	11.28	PPBV	99
65)	TOLUENE	11.35	92	323053	10.72	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.94	75	221768	10.77	PPBV	97
67)	1,1,2-TRICHLOROETHANE	11.10	83	163615	10.98	PPBV	99
69)	2-HEXANONE	11.61	58	155249	10.82	PPBV	100
70)	ETHYL METHACRYLATE	11.64	69	248732	10.68	PPBV	100
71)	TETRACHLOROETHYLENE	12.48	164	206823	9.70	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.79	129	316569	10.48	PPBV	100
73)	1,2-DIBROMOETHANE	12.00	107	241493	10.52	PPBV	100
74)	OCTANE	12.27	43	435085	10.46	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.18	131	235383	10.51	PPBV	98
76)	CHLOROBENZENE	13.20	112	377110	10.27	PPBV	100
77)	ETHYLBENZENE	13.57	91	622699	10.51	PPBV	100
78)	m,p-XYLENE	13.76	106	468066	21.45	PPBV	100
79)	o-XYLENE	14.26	106	228332	10.70	PPBV	99
80)	STYRENE	14.16	104	304566	11.58	PPBV	99
81)	NONANE	14.46	43	408033	11.52	PPBV	100
82)	BROMOFORM	13.86	173	266510	11.05	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.29	83	324355	10.88	PPBV	99
85)	1,2,3-TRICHLOROPROPANE	14.41	75	249263	10.59	PPBV	100
86)	ISOPROPYLBENZENE	14.91	105	662263	10.76	PPBV	100
87)	BROMOBENZENE	15.03	77	281516	10.64	PPBV	99
88)	2-CHLOROTOLUENE	15.47	126	153969	10.83	PPBV	100
89)	n-PROPYLBENZENE	15.50	120	162847	10.86	PPBV	100
90)	4-ETHYLTOLUENE	15.67	105	527608	11.67	PPBV	100
91)	1,3,5-TRIMETHYLBENZENE	15.77	105	465254	11.47	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.98	118	198606	11.52	PPBV	99
93)	tert-BUTYLBENZENE	16.26	134	118278	10.92	PPBV	98
94)	1,2,4-TRIMETHYLBENZENE	16.27	105	425170	11.96	PPBV	99
95)	m-DICHLOROBENZENE	16.46	146	229662	11.58	PPBV	99
96)	BENZYL CHLORIDE	16.46	91	272246	11.71	PPBV	99
97)	p-DICHLOROBENZENE	16.55	146	208479	11.35	PPBV	98
98)	sec-BUTYLBENZENE	16.59	134	133848	11.13	PPBV	99
99)	p-ISOPROPYLTOLUENE	16.79	134	136720	11.37	PPBV	99
100)	o-DICHLOROBENZENE	16.97	146	211571	11.59	PPBV	99
101)	n-BUTYLBENZENE	17.31	134	102328	11.95	PPBV	98
102)	HEXACHLOROETHANE	17.79	117	198609	11.15	PPBV	99
103)	HEXACHLOROBUTADIENE	19.60	225	117495	11.92	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.04	180	46999	11.36	PPBV	96
106)	NAPHTHALENE	19.18	128	88621	10.83	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W31662.D M3W1230.M Mon Jan 14 10:00:44 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W31662.D Vial: 3
Acq On : 11 Jan 2013 1:00 pm Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS40550,V3W1231,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 14:16 2013 Quant Results File: M3W1230.RES

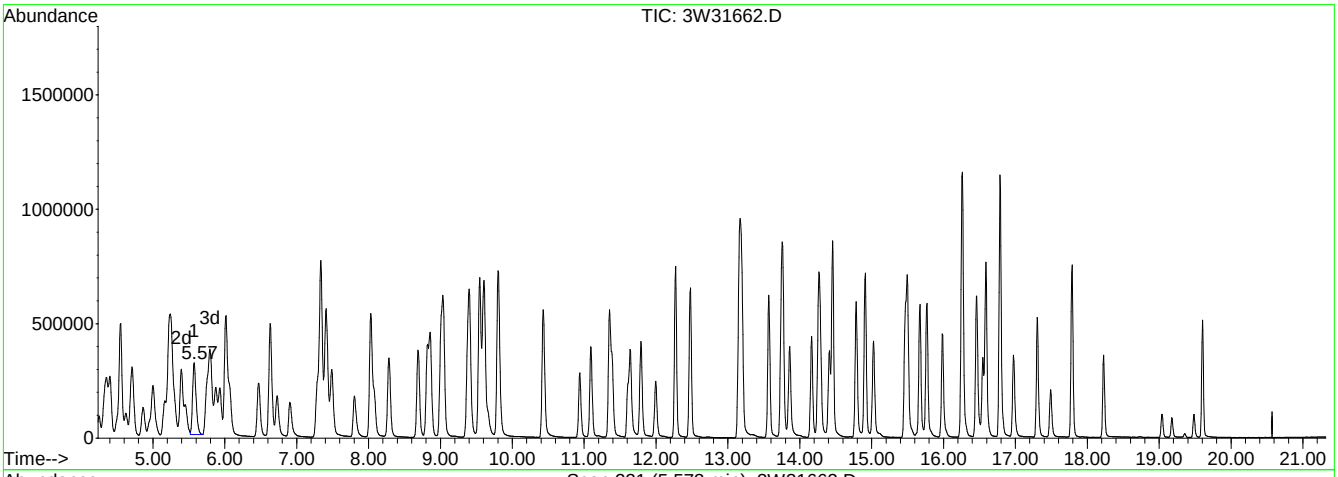
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

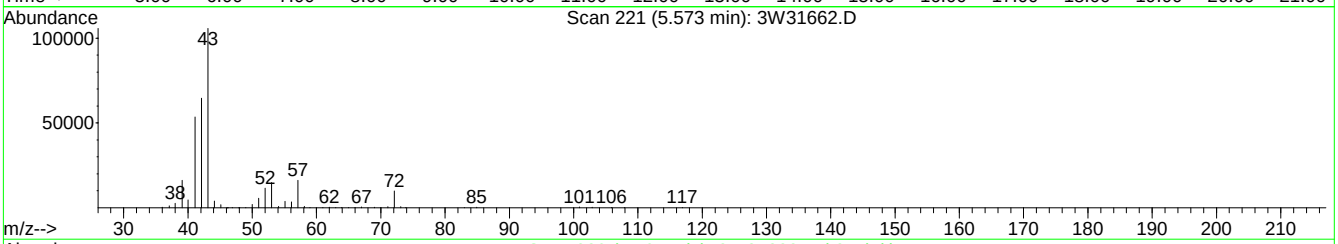


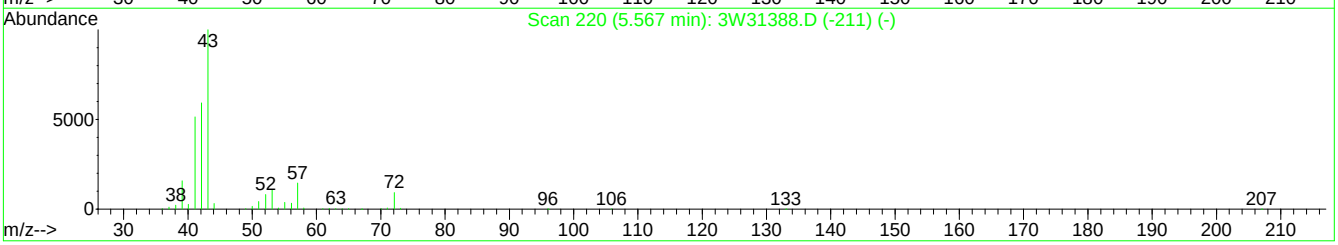
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31662.D Vial: 3
Acq On : 11 Jan 2013 1:00 pm Operator: yunxiac
Sample : ICV1230-10 Inst : MS3W
Misc : MS40550,V3W1231,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 14:16 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31662.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 10.06PPBV m

response 1061385

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	1.02#
0.00	0.80	0.86#
0.00	0.00	0.00

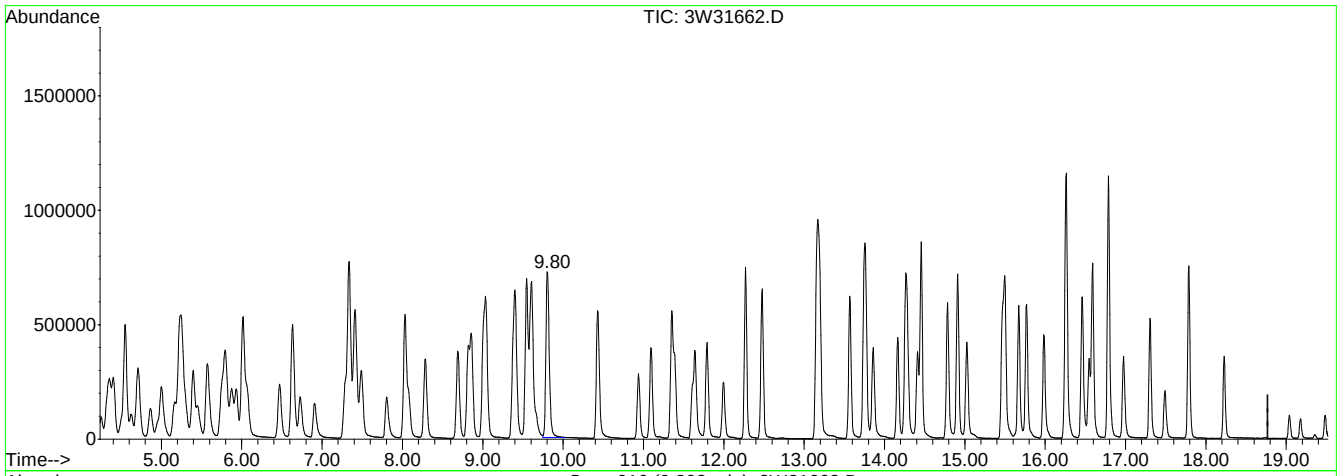
3W31662.D M3W1230.M Fri Jan 11 14:16:11 2013 MS3W

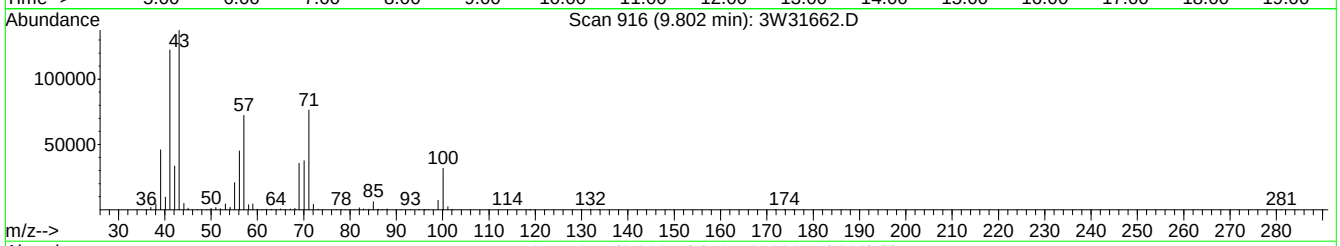
3W31662.D edits: TVHC as EQUIV PENTANE

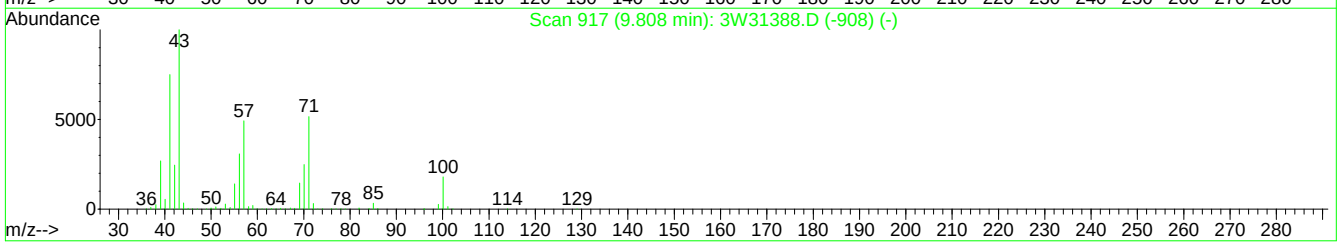
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W31662.D Vial: 3
Acq On : 11 Jan 2013 1:00 pm Operator: yunxiac
Sample : ICV1230-10 Inst : MS3W
Misc : MS40550,V3W1231,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 11 14:16 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W31662.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 10.81PPBV m

response 2103523

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.51#
0.00	0.40	0.44#
0.00	0.00	0.00

3W31662.D M3W1230.M Fri Jan 11 14:19:55 2013 MS3W

ACCUTEST LABORATORIES
JB29729
3W31662.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32167.D Vial: 2
Acq On : 6 Feb 2013 9:35 am Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:00:13 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.40	128	109132	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.00	114	524823	10.00	PPBV	-0.01
68) CHLOROBENZENE-D5	13.15	82	253903	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.15	82	254605	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.78	95	274659	10.88	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.80%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	97727	8.82	PPBV	95
4) CHLORODIFLUOROMETHANE	4.34	67	30354	7.60	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.41	85	316306	8.32	PPBV	99
6) PROPYLENE	4.36	41	131977	9.34	PPBV	98
7) FREON 114	4.55	85	375012	8.45	PPBV	100
8) CHLOROMETHANE	4.51	50	172227	9.15	PPBV	99
9) VINYL CHLORIDE	4.63	62	157130	9.17	PPBV	98
10) 1,3-BUTADIENE	4.70	54	114291	8.85	PPBV	97
11) n-BUTANE	4.72	43	259267	8.92	PPBV	100
12) BROMOMETHANE	4.86	94	139552	9.15	PPBV	100
13) CHLOROETHANE	4.95	64	82232	9.04	PPBV	98
14) DICHLOROFLUOROMETHANE	5.00	67	304437	8.48	PPBV	100
15) ACETONITRILE	5.18	41	105601	9.06	PPBV	96
16) FREON 123	5.22	83	330696	8.76	PPBV	99
17) FREON 123A	5.26	117	178558	8.48	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.40	101	294274	8.03	PPBV	100
19) ISOPROPYL ALCOHOL	5.45	45	237690	8.25	PPBV	99
20) ACETONE	5.30	58	66549	9.05	PPBV	91
21) PENTANE	5.57	42	156616	8.74	PPBV	96
22) TVHC as EQUIV PENTANE	5.57	TIC	881791m	8.58	PPBV	
23) IODOMETHANE	5.75	142	351605	8.75	PPBV	96
24) 1,1-DICHLOROETHYLENE	5.79	96	138465	8.75	PPBV	97
25) CARBON DISULFIDE	6.07	76	400549	8.78	PPBV	99
26) ETHANOL	5.04	45	59041	8.52	PPBV	98
27) BROMOETHENE	5.16	106	136743	8.78	PPBV	98
28) ACRYLONITRILE	5.60	52	84119	9.34	PPBV	97
29) METHYLENE CHLORIDE	5.88	84	119560	7.82	PPBV	99
30) 3-CHLOROPROPENE	5.93	76	64309	9.06	PPBV	96
31) FREON 113	6.01	151	216412	8.44	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.47	96	133456	9.15	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.81	59	270460	8.41	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.63	73	352275	8.23	PPBV	100
35) TETRAHYDROFURAN	7.79	72	63377	8.93	PPBV	99
36) HEXANE	7.33	57	223620	8.78	PPBV	97
37) VINYL ACETATE	6.73	86	30003	9.61	PPBV #	93
38) 1,1-DICHLOROETHANE	6.63	63	264223	8.72	PPBV	100
39) METHYL ETHYL KETONE	6.90	72	63678	9.11	PPBV	99
40) cis-1,2-DICHLOROETHYLENE	7.28	96	143530	9.21	PPBV	97
41) DIISOPROPYL ETHER	7.34	45	505432	8.65	PPBV	100
42) ETHYL ACETATE	7.40	61	48573	8.47	PPBV #	91
43) METHYL ACRYLATE	7.42	55	221660	8.89	PPBV	100
44) CHLOROFORM	7.48	83	264133	8.46	PPBV	99
45) 2,4-DIMETHYLPENTANE	8.03	57	283738	8.96	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.28	97	247238	7.98	PPBV	100
47) CARBON TETRACHLORIDE	8.81	117	254362	8.12	PPBV	100
48) 1,2-DICHLOROETHANE	8.07	62	146231	7.81	PPBV	99
50) BENZENE	8.68	78	430347	8.76	PPBV	99
51) CYCLOHEXANE	8.85	84	221394	8.49	PPBV	98

(#) = qualifier out of range (m) = manual integration
3W32167.D M3W1230.M Thu Feb 07 10:02:57 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32167.D Vial: 2
Acq On : 6 Feb 2013 9:35 am Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 07 09:00:13 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

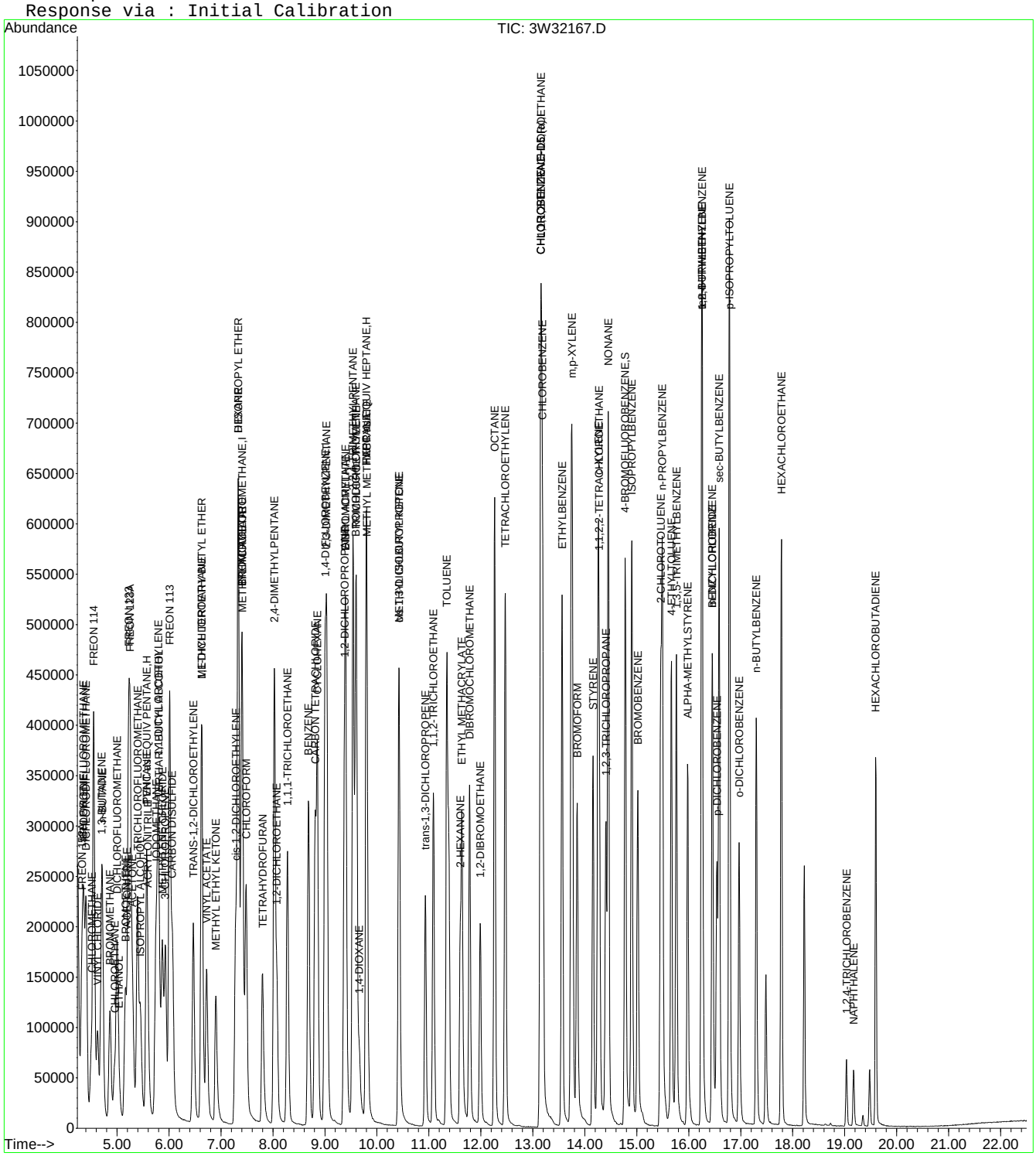
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	2,3-DIMETHYLPENTANE	9.04	71	101125	8.27	PPBV	98
53)	TRICHLOROETHYLENE	9.61	95	163486	8.15	PPBV	98
54)	1,2-DICHLOROPROPANE	9.37	63	169616	8.77	PPBV	97
55)	DIBROMOMETHANE	9.39	174	155724	8.70	PPBV	98
56)	ETHYL ACRYLATE	9.40	55	266995	8.39	PPBV	100
57)	BROMODICHLOROMETHANE	9.59	83	276783	8.42	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.54	57	729455	8.65	PPBV	100
59)	1,4-DIOXANE	9.66	88	76666	8.12	PPBV	99
60)	HEPTANE	9.80	43	281181	8.75	PPBV	100
61)	TVHC as EQUIV HEPTANE	9.80	TIC	1727702m	8.71	PPBV	
62)	METHYL METHACRYLATE	9.81	69	139109	8.62	PPBV	99
63)	METHYL ISOBUTYL KETONE	10.42	58	100970	8.62	PPBV	100
64)	cis-1,3-DICHLOROPROPENE	10.43	75	215819	9.19	PPBV	96
65)	TOLUENE	11.35	92	276724	9.01	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.93	75	183429	8.74	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.09	83	140785	9.27	PPBV	99
69)	2-HEXANONE	11.60	58	132196	9.69	PPBV	99
70)	ETHYL METHACRYLATE	11.64	69	199685	9.01	PPBV	98
71)	TETRACHLOROETHYLENE	12.47	164	175014	8.63	PPBV	99
72)	DIBROMOCHLOROMETHANE	11.78	129	260189	9.06	PPBV	100
73)	1,2-DIBROMOETHANE	11.99	107	204303	9.36	PPBV	98
74)	OCTANE	12.27	43	380473	9.62	PPBV	98
75)	1,1,1,2-TETRACHLOROETHANE	13.17	131	188743	8.86	PPBV	98
76)	CHLOROBENZENE	13.19	112	316032	9.05	PPBV	99
77)	ETHYLBENZENE	13.56	91	530819	9.42	PPBV	100
78)	m,p-XYLENE	13.75	106	392924	18.93	PPBV	98
79)	o-XYLENE	14.25	106	192807	9.50	PPBV	97
80)	STYRENE	14.16	104	257828	10.31	PPBV	99
81)	NONANE	14.45	43	348220	10.34	PPBV	99
82)	BROMOFORM	13.85	173	218265	9.52	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.28	83	269902	9.52	PPBV	99
85)	1,2,3-TRICHLOROPROPANE	14.41	75	201096	8.98	PPBV	98
86)	ISOPROPYLBENZENE	14.91	105	542143	9.26	PPBV	99
87)	BROMOBENZENE	15.02	77	225381	8.96	PPBV	99
88)	2-CHLOROTOLUENE	15.46	126	126567	9.36	PPBV	100
89)	n-PROPYLBENZENE	15.49	120	131964	9.26	PPBV	100
90)	4-ETHYLTOLUENE	15.67	105	421444	9.80	PPBV	100
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	364005	9.43	PPBV	98
92)	ALPHA-METHYLSTYRENE	15.98	118	157112	9.58	PPBV	100
93)	tert-BUTYLBENZENE	16.25	134	92808	9.01	PPBV	98
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	325823	9.64	PPBV	99
95)	m-DICHLOROBENZENE	16.45	146	176640	9.36	PPBV	98
96)	BENZYL CHLORIDE	16.46	91	197984	8.96	PPBV	99
97)	p-DICHLOROBENZENE	16.54	146	161073	9.23	PPBV	99
98)	sec-BUTYLBENZENE	16.58	134	104806	9.16	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.78	134	104644	9.15	PPBV	98
100)	o-DICHLOROBENZENE	16.97	146	163978	9.45	PPBV	100
101)	n-BUTYLBENZENE	17.30	134	77718	9.54	PPBV	99
102)	HEXACHLOROETHANE	17.78	117	152646	9.01	PPBV	100
103)	HEXACHLOROBUTADIENE	19.60	225	87444	9.33	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	19.04	180	29312	7.45	PPBV	100
106)	NAPHTHALENE	19.17	128	58183	7.46	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32167.D M3W1230.M Thu Feb 07 10:02:57 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32167.D Vial: 2
Acq On : 6 Feb 2013 9:35 am Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:06 2013 Quant Results File: M3W1230.RES

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

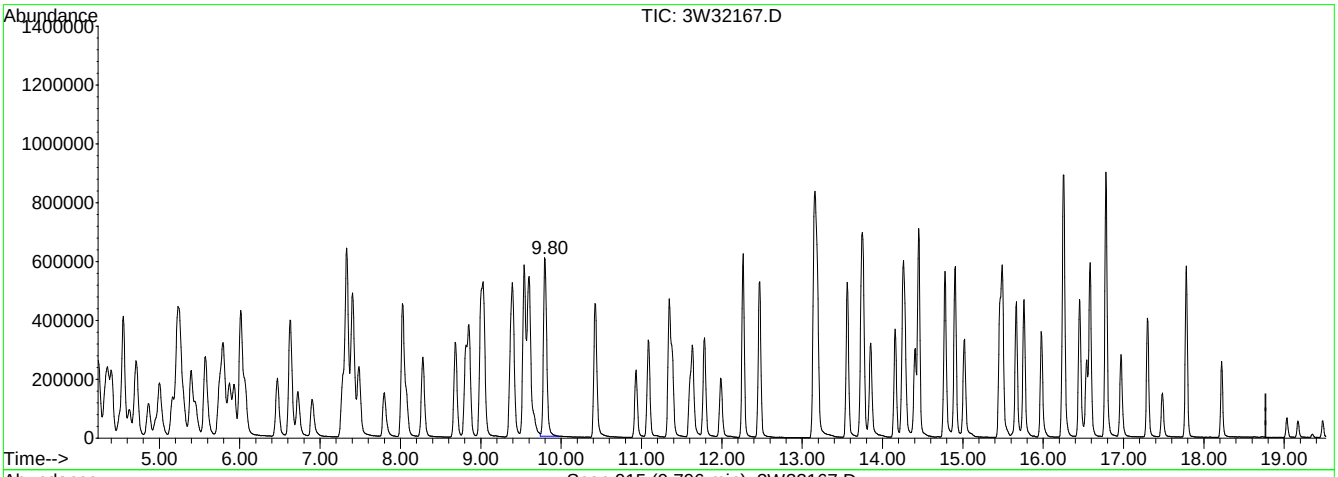


ACCUTEST LABORATORIES JB29729

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32167.D Vial: 2
Acq On : 6 Feb 2013 9:35 am Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W32167.D

(61) TVHC as EQUIV HEPTANE (H)

9.80min 8.71PPBV m

response 1727702

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.38#
0.00	0.40	0.34#
0.00	0.00	0.00

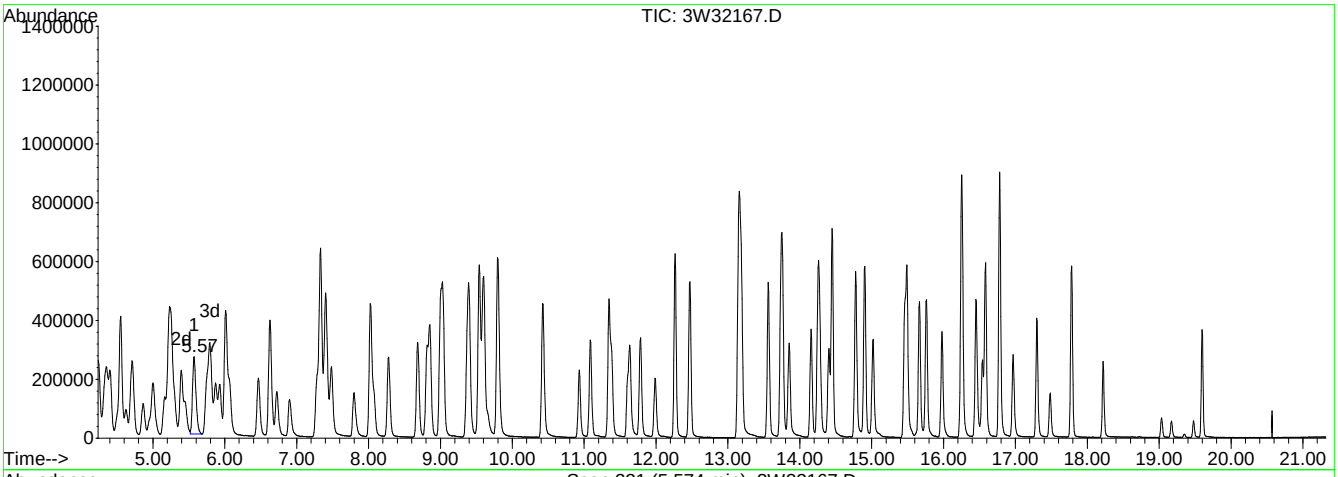
3W32167.D M3W1230.M Thu Feb 07 10:00:47 2013 MS3W

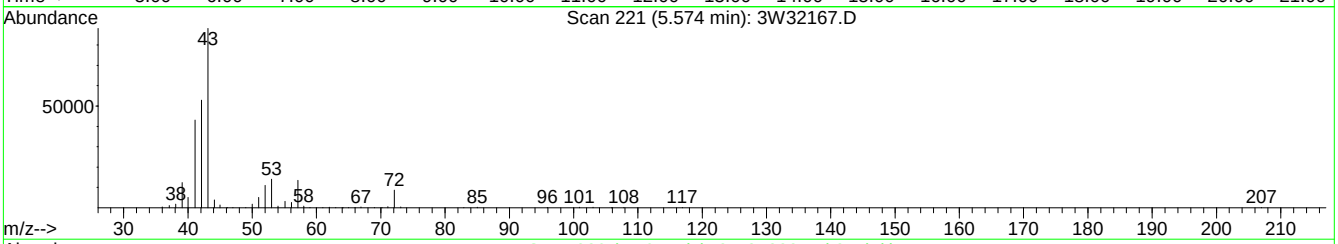
3W32167.D edits: TVHC as EQUIV HEPTANE

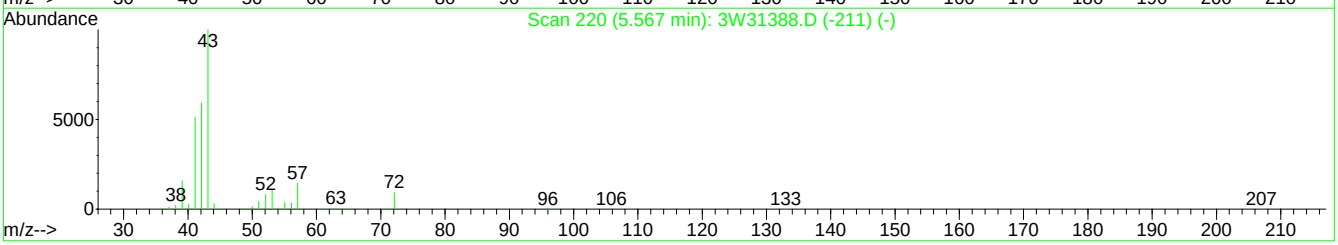
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32167.D Vial: 2
Acq On : 6 Feb 2013 9:35 am Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS42049,V3W1248,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 7 9:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W32167.D

(22) TVHC as EQUIV PENTANE (H)

5.57min 8.58PPBV m

response 881791

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.75#
0.00	0.80	0.66#
0.00	0.00	0.00

3W32167.D M3W1230.M Thu Feb 07 10:04:12 2013 MS3W

ACCUTEST LABORATORIES
JB29729
3W32167.D edits: TVHC as EQUIV PENTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32488.D Vial: 2
Acq On : 1 Mar 2013 12:01 pm Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:07 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.38	128	102008	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	8.99	114	519855	10.00	PPBV	-0.02
68) CHLOROBENZENE-D5	13.13	82	266322	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.13	82	267230	10.00	PPBV	-0.02
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.76	95	287941	10.87	PPBV	-0.02
Spiked Amount 10.000	Range 65 - 128		Recovery = 108.70%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	94894	9.16	PPBV	96
4) CHLORODIFLUOROMETHANE	4.34	67	30138	8.07	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.40	85	305006	8.59	PPBV	99
6) PROPYLENE	4.36	41	129428	9.80	PPBV	99
7) FREON 114	4.54	85	369518	8.91	PPBV	100
8) CHLOROMETHANE	4.50	50	166767	9.48	PPBV	97
9) VINYL CHLORIDE	4.62	62	151154	9.43	PPBV	99
10) 1,3-BUTADIENE	4.69	54	115389	9.56	PPBV	100
11) n-BUTANE	4.71	43	254984	9.38	PPBV	99
12) BROMOMETHANE	4.86	94	134334	9.43	PPBV	99
13) CHLOROETHANE	4.95	64	81223	9.55	PPBV	99
14) DICHLOROFLUOROMETHANE	4.99	67	300177	8.95	PPBV	100
15) ACETONITRILE	5.17	41	111733	10.25	PPBV	91
16) FREON 123	5.21	83	322058	9.12	PPBV	99
17) FREON 123A	5.24	117	172471	8.76	PPBV	96
18) TRICHLOROFLUOROMETHANE	5.38	101	299835	8.75	PPBV	100
19) ISOPROPYL ALCOHOL	5.44	45	241441	8.97	PPBV	100
20) ACETONE	5.29	58	64929	9.45	PPBV	95
21) PENTANE	5.56	42	162539	9.71	PPBV	96
22) TVHC as EQUIV PENTANE	5.56	TIC	917560m	9.55	PPBV	
23) IODOMETHANE	5.73	142	347039	9.24	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.77	96	136218	9.21	PPBV	99
25) CARBON DISULFIDE	6.05	76	394935	9.26	PPBV	100
26) ETHANOL	5.03	45	63721	9.83	PPBV	99
27) BROMOETHENE	5.15	106	133752	9.19	PPBV	99
28) ACRYLONITRILE	5.59	52	87290	10.36	PPBV	99
29) METHYLENE CHLORIDE	5.86	84	117164	8.20	PPBV	96
30) 3-CHLOROPROPENE	5.92	76	62318	9.39	PPBV	95
31) FREON 113	6.00	151	213420	8.90	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.46	96	126633	9.29	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.79	59	263241	8.76	PPBV	98
34) METHYL TERTIARY BUTYL ETHE	6.61	73	338105	8.46	PPBV	97
35) TETRAHYDROFURAN	7.78	72	62679	9.45	PPBV	92
36) HEXANE	7.31	57	227603	9.56	PPBV	99
37) VINYL ACETATE	6.72	86	27890	9.56	PPBV #	77
38) 1,1-DICHLOROETHANE	6.61	63	262542	9.26	PPBV	100
39) METHYL ETHYL KETONE	6.89	72	61857	9.46	PPBV #	88
40) cis-1,2-DICHLOROETHYLENE	7.27	96	138861	9.53	PPBV	99
41) DIISOPROPYL ETHER	7.32	45	532820	9.76	PPBV	93
42) ETHYL ACETATE	7.39	61	50609	9.45	PPBV	95
43) METHYL ACRYLATE	7.40	55	230443	9.89	PPBV	97
44) CHLOROFORM	7.47	83	263007	9.01	PPBV	99
45) 2,4-DIMETHYLPENTANE	8.01	57	288097	9.73	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.26	97	248958	8.59	PPBV	99
47) CARBON TETRACHLORIDE	8.80	117	256381	8.76	PPBV	100
48) 1,2-DICHLOROETHANE	8.06	62	147478	8.42	PPBV	99
50) BENZENE	8.67	78	427520	8.78	PPBV	100
51) CYCLOHEXANE	8.83	84	216552	8.38	PPBV	94

(#) = qualifier out of range (m) = manual integration
3W32488.D M3W1230.M Mon Mar 04 10:23:29 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32488.D Vial: 2
Acq On : 1 Mar 2013 12:01 pm Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 04 09:14:07 2013 Quant Results File: M3W1230.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

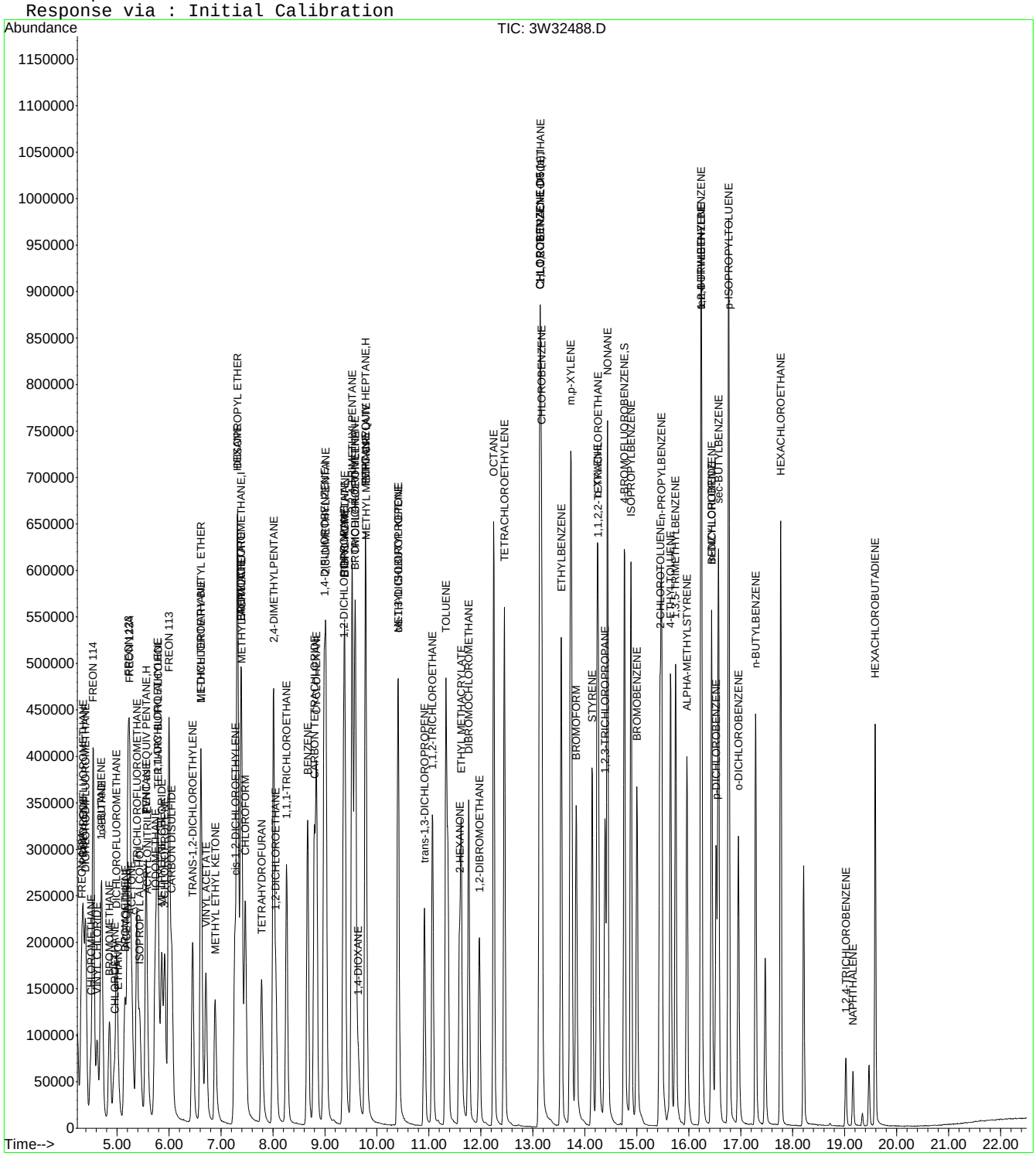
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	2,3-DIMETHYLPENTANE	9.02	71	98380	8.13	PPBV		94
53)	TRICHLOROETHYLENE	9.59	95	164086	8.25	PPBV		99
54)	1,2-DICHLOROPROPANE	9.36	63	176988	9.24	PPBV		96
55)	DIBROMOMETHANE	9.38	174	154764	8.73	PPBV		99
56)	ETHYL ACRYLATE	9.38	55	290744	9.23	PPBV		99
57)	BROMODICHLOROMETHANE	9.57	83	282878	8.69	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.52	57	745011	8.92	PPBV		100
59)	1,4-DIOXANE	9.64	88	77646	8.30	PPBV		98
60)	HEPTANE	9.78	43	302866	9.52	PPBV		95
61)	TVHC as EQUIV HEPTANE	9.78	TIC	1819550m	9.27	PPBV		
62)	METHYL METHACRYLATE	9.80	69	143542	8.98	PPBV		91
63)	METHYL ISOBUTYL KETONE	10.40	58	107779	9.29	PPBV		93
64)	cis-1,3-DICHLOROPROPENE	10.41	75	215156	9.25	PPBV		100
65)	TOLUENE	11.33	92	272464	8.96	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.91	75	184705	8.89	PPBV		98
67)	1,1,2-TRICHLOROETHANE	11.07	83	139641	9.28	PPBV		99
69)	2-HEXANONE	11.59	58	137022	9.58	PPBV		91
70)	ETHYL METHACRYLATE	11.62	69	209810	9.03	PPBV		96
71)	TETRACHLOROETHYLENE	12.45	164	178888	8.41	PPBV		96
72)	DIBROMOCHLOROMETHANE	11.77	129	257472	8.55	PPBV		100
73)	1,2-DIBROMOETHANE	11.97	107	204482	8.93	PPBV		99
74)	OCTANE	12.25	43	409501	9.87	PPBV		93
75)	1,1,1,2-TETRACHLOROETHANE	13.15	131	193586	8.67	PPBV		100
76)	CHLOROBENZENE	13.17	112	314311	8.58	PPBV		99
77)	ETHYLBENZENE	13.55	91	530974	8.98	PPBV		99
78)	m,p-XYLENE	13.74	106	389491	17.89	PPBV		99
79)	o-XYLENE	14.24	106	190456	8.95	PPBV		100
80)	STYRENE	14.14	104	262759	10.02	PPBV		99
81)	NONANE	14.44	43	382312	10.83	PPBV		96
82)	BROMOFORM	13.83	173	231567	9.63	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.26	83	289684	9.74	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.39	75	211983	9.03	PPBV		98
86)	ISOPROPYLBENZENE	14.89	105	544691	8.87	PPBV		99
87)	BROMOBENZENE	15.00	77	233492	8.85	PPBV		99
88)	2-CHLOROTOLUENE	15.45	126	127313	8.98	PPBV		99
89)	n-PROPYLBENZENE	15.48	120	132963	8.89	PPBV		99
90)	4-ETHYLTOLUENE	15.65	105	436109	9.67	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.75	105	373307	9.22	PPBV		100
92)	ALPHA-METHYLSTYRENE	15.96	118	166169	9.66	PPBV		99
93)	tert-BUTYLBENZENE	16.24	134	94412	8.74	PPBV		99
94)	1,2,4-TRIMETHYLBENZENE	16.24	105	343401	9.68	PPBV		99
95)	m-DICHLOROBENZENE	16.44	146	193788	9.79	PPBV		98
96)	BENZYL CHLORIDE	16.44	91	232222	10.02	PPBV		99
97)	p-DICHLOROBENZENE	16.53	146	178713	9.76	PPBV		99
98)	sec-BUTYLBENZENE	16.57	134	106857	8.91	PPBV		94
99)	p-ISOPROPYLTOLUENE	16.77	134	108643	9.05	PPBV		99
100)	o-DICHLOROBENZENE	16.96	146	179179	9.84	PPBV		99
101)	n-BUTYLBENZENE	17.29	134	79782	9.34	PPBV	#	89
102)	HEXACHLOROETHANE	17.77	117	168279	9.47	PPBV		100
103)	HEXACHLOROBUTADIENE	19.59	225	101155	10.28	PPBV		99
104)	1,2,4-TRICHLOROBENZENE	19.02	180	31515	7.64	PPBV		96
106)	NAPHTHALENE	19.16	128	59328	7.25	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W32488.D M3W1230.M Mon Mar 04 10:23:30 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W32488.D Vial: 2
Acq On : 1 Mar 2013 12:01 pm Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: M3W1230.RES

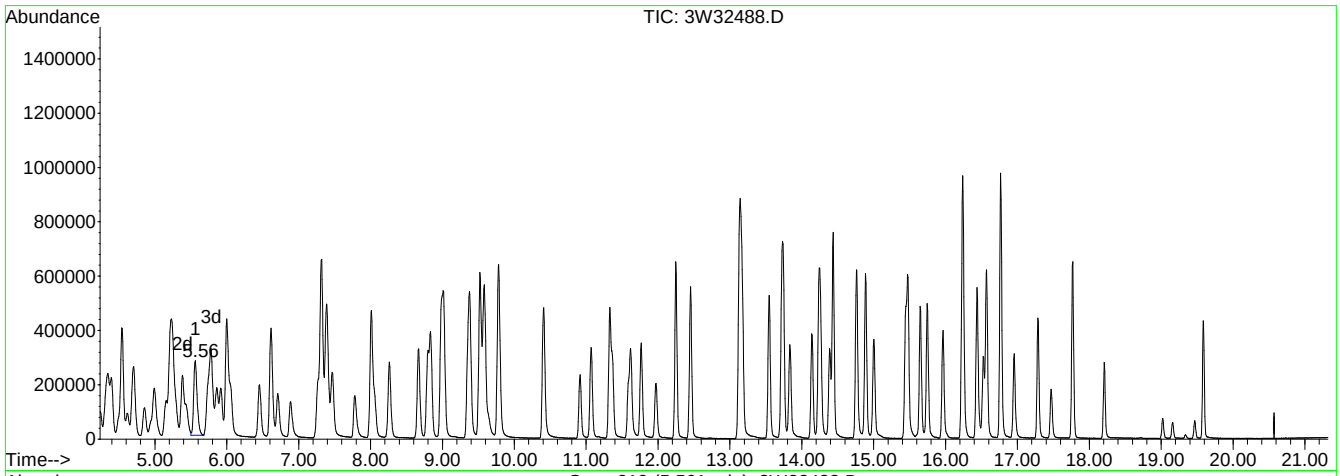
Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Initial Calibration

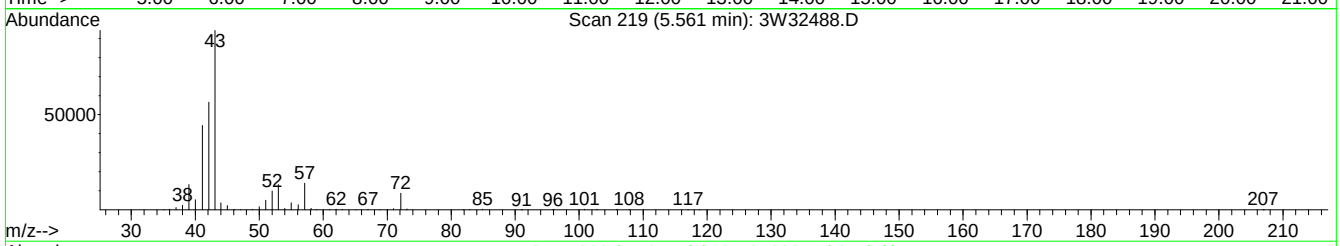


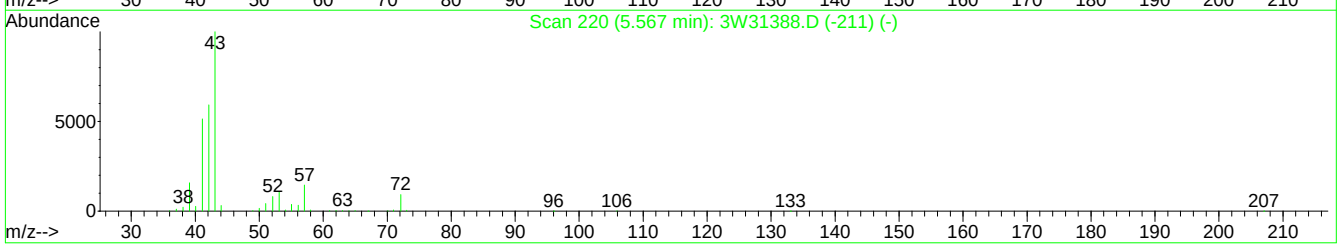
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32488.D Vial: 2
Acq On : 1 Mar 2013 12:01 pm Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration







TIC: 3W32488.D

(22) TVHC as EQUIV PENTANE (H)

5.56min 9.55PPBV m

response 917560

Signal	Exp%	Act%
TIC	100	100
0.00	1.00	0.79#
0.00	0.80	0.64#
0.00	0.00	0.00

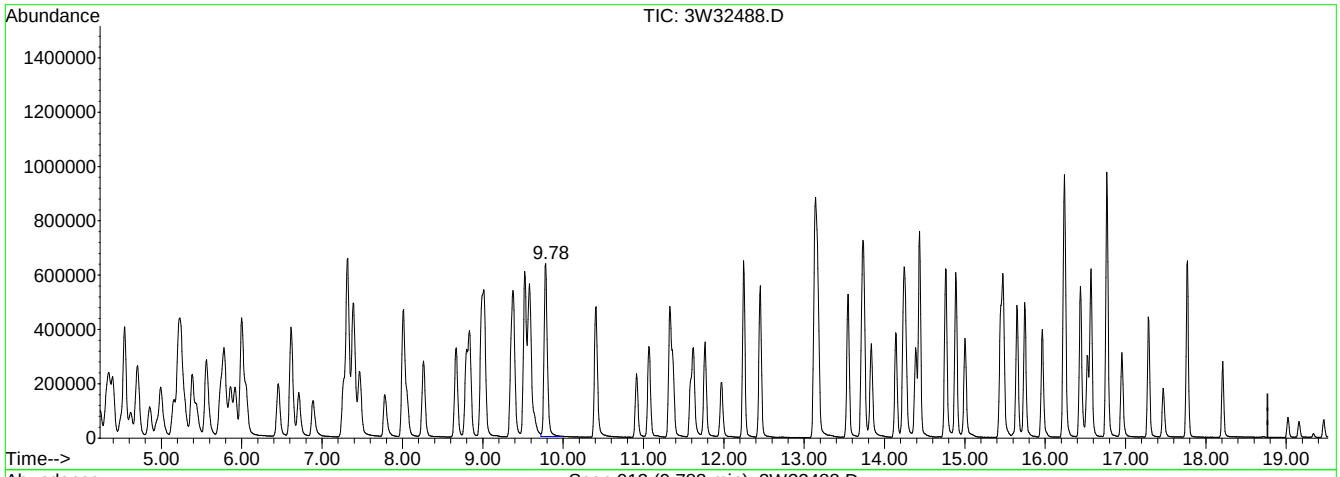
3W32488.D M3W1230.M Mon Mar 04 10:19:59 2013 MS3W

3W32488.D edits: TVHC as EQUIV PENTANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W32488.D Vial: 2
Acq On : 1 Mar 2013 12:01 pm Operator: yunxiac
Sample : CC1230-10 Inst : MS3W
Misc : MS43510,V3W1260,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 9:53 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1230.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 11 11:21:44 2013
Response via : Multiple Level Calibration



TIC: 3W32488.D

(61) TVHC as EQUIV HEPTANE (H)

9.78min 9.27PPBV m

response 1819550

Signal	Exp%	Act%
TIC	100	100
0.00	0.50	0.40#
0.00	0.40	0.32#
0.00	0.00	0.00

3W32488.D M3W1230.M Mon Mar 04 10:23:43 2013 MS3W

3W32488.D edits: TVHC as EQUIV HEPTANE

TO-14/TO-15

ACCUTEST

Batch ID: V2W1568

Analyst Signature: YHeh

Date: 2/20/13

Columns: RTX-1, 60mX.32mm

Method: TO15V2W.M

Seq. File: 2W022013.S

Initial Cal. Method: IN2W1568

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS5494	TO15 ISTD/surr	40ppbV

Standard Data

Lot #	Description	Conc.
AS5490	TO15 ~~STD~~ LCS	40ppbV
AS5491	TO15 STD YXL	40ppbV
AS5492	TO15 STD	1.0ppbV
AS5493	TO15 STD	0.4ppbV

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 2/25/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	2W37421	BFB		A960	100					OK	
2	2W37422	ICC1568-10		A978	100			✓	✓	OK	
2	2W37423	IC1568-5		A978	50			✓	✓	OK	
1	2W37424	IC1568-0.5		A973	200			✓	✓	OK	
1	2W37425	IC1568-0.2		A973	80			✓	✓	OK	
2	2W37426	IC1568-20		A978	200			✓	✓	OK	
2	2W37427	IC1568-15		A978	150			✓	✓	OK	
5	2W37428	IB		A960	100					—	
4	2W37429	IC1568-0.1		A966	100			✓	✓	OK	
4	2W37430	IC1568-0.04		A966	40			✓	✓	OK	
2	2W37431	IC1568-40		A978	400			✓	✓	OK	
5	2W37432	IB		A960	100					—	
5	2W37433	IB		A960	100					—	
3	2W37434	IC1V1568-10		A972	100			✓	✓	OK	

YXL 2/20/13

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

1

6.8.1 6

TO-14/TO-15

ACCUTEST

Batch ID: V2W1573-4 yxc

Date: 2/28/13

Analyst Signature: [signature]

Columns: RTX-1, 60mx.32mm

Method: TO15 2W.M

Seq. File: 2W022813.S

Initial Cal. Method: M2W1568

AS Data

Method: TO15 NPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A5549	TO15 STD yxc	40PPBV
A5549	TO15 STD	
A5549	TO15 ISTD V	↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 3/

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	2W37576	BFB		A961	100					OK	8:56AM
2	2W37577	CC1568-10		A978	100					OK	
2	2W37578	BS		A972	100			✓	✓	OK	
2	2W37579	BSD		A972	100			✓	✓	OK	
5	2W37580	MB		A961	400			✓	✓	OK	
5	2W37581	JB29667-3	43676	A826	400	1		✓	✓	OK	TB
6	2W37582	JB29667-1	STD	A318	40	1		✓	✓	OK	
7	2W37583	JB29667-2	↓	A483	60	1.48		✓	✓	OK	
8	2W37584	JB29621-1	43730	A1011	80	1		✓	✓	OK	
9	2W37585	JB29621-2	STD	A093	120	1		✓	✓	OK	
10	2W37586	SCC		A705	400			✓	✓	OK	
11	2W37587	JB29675-4	43676	~~A826~~ yxc	400	1		✓	✓	OK	
12	2W37588	JB29675-5	STD	A858	400	1		✓	✓	OK	A838
12	2W37589	JB29675-5dup		A858	400	1		✓	✓	OK	
13	2W37590	JB29675-6		A470	400	1		✓	✓	OK	
14	2W37591	JB29675-12		A604	100	1		✓	✓	OK	
15	2W37592	JB29675-11		A497	100	1		✓	✓	OK/DL	
16	2W37593	JB29675-10		A538	100	1		✓	✓	OK	
16	2W37594	JB29675-10		A538	20	1		✓	✓	OK	
1	2W37595	JB29675-8		A675	100	1		✓	✓	OK/DL	
1	2W37596	JB29675-8		A675	20	1		✓	✓	OK/DL	
2	2W37597	JB29675-7		A422 A1003	200	330		✓	✓	OK	
2	2W37598	JB29675-7		A422 A1003	20	330		✓	✓	OK	
3	2W37599	JB29675-4		A549 ~~A414~~ A414 yxc	200	50		✓	✓	OK/R	
3	2W37600	JB29675-9		A549 A414 yxc	20	50		✓	✓	Not used	OK
4	2W37601	JB29729-1		~~A455~~ yxc	~~400~~ 100	1		✓	✓	OK	100mL
5	2W37602	JB29729-2		A089	400	1		✓	✓	OK	
6	2W37603	JB29729-3		A646	100	1		✓	✓	OK	
7	2W37604	JB29729-4		A074	400	1		✓	✓	OK	
8	2W37605	JB29729-5	↓	A861	170	1.7		✓	✓	OK	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

15

TO-14/TO-15

ACCUTEST

Batch ID: V2W1574

Analyst Signature:

Date: 2/28/13

Columns: RTX-1, 60m x .32mm

Method: TO15 2W.M

Seq. File: 2W022813.S

Initial Cal. Method: IN2W0568

AS Data

Method: TO15 MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A55490	TO15 IS	40ppbV
A55491	TO15 STD	↓
A55494	TO15 SURR IS	↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 3/1

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
9	2W37606	JB29729-6	STD	A8543	400	1		✓	✓	OK	6:56 AM
10	2W37607	JB29729-7	↓	A193	400	1		✓	✓	Not used	wrong Sample

2/28/13

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

17

ACCUTEST Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
2/28/13	YXC	JB29675-7	A422	0.5	1.2	1.1	A1003	6000	40	14.7	12000	YXC 300	330
2/28/13	YXC	JB29675-9	A549	4	1.2	1.25	A414	1000	50	14.7	2000	40	50

Definition: Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Batch ID: V3W1230

Date: 1/10/13

Analyst Signature:

Columns: RTX-1 60MX.32mm

Method: TO15 3W,M

Seq. File: 3W011013.S

Initial Cal. Method: M3W1230

AS Data

Method: TO15,MPT

Standard Data

Lot #	Description	Conc.
AS5437	IS/Surr	40ppbv

Standard Data

Lot #	Description	Conc.
AS5453	TO15 LCS	40ppbv
AS5454	TO15 STD	40ppbv
AS5455	TO15 STD	1.0ppbv
AS5456	TO15 STD	0.4ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 1/11/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W31640	BFB		A960	100					OK	
2	3W31641	CC1214-10		A970	100					NG	
2	3W31642	CC1214-10		A970	100					NG	
5	3W31643	IB		A960	100					not used	
5	3W31644	IB		A960	100					not used	
5	3W31645	IB		A960	100					not used	
5	3W31646	BFB		A960	100					OK	
2	3W31647	IC1230-0.5		A981	200			✓	✓	OK	
2	3W31648	IC1230-0.2		A981	80			✓	✓	OK	
1	3W31649	IC1230-15		A969	150			✓	✓	OK	
1	3W31650	ICC1230-10		A969	100			✓	✓	OK	
1	3W31651	IC1230-5		A969	50			✓	✓	OK	
3	3W31652	IC1230-0.1		A966	100			✓	✓	not used	
3	3W31653	IC1230-0.04		A966	40			✓	✓	not used	
1	3W31654	IC1230-20		A969	200			✓	✓	OK	
1	3W31655	IC1230-40		A969	400			✓	✓	OK	
5	3W31656	IB		A960	100			✓	✓	not used	
4	3W31657	ICV1230-10		A970	100			✓	✓	not used	
3	3W31658	IC1230-0.1		A966	100			✓	✓	OK	
3	3W31659	IC1230-0.04		A966	40			✓	✓	OK	
					YH						

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

15

6.8.3 6

TO-14/TO-15

ACCUTEST

Batch ID: V3W1231

Date: 1/11/13

Analyst Signature:

Columns: RTX-1 60M X .32mm

Method: TO15V3W.M

Seq. File: 3WD011113.S

Initial Cal. Method: M3W1230

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS5454	TO15STD	40ppbV
AS5453	TO15LCS	↓
AS5437	IS/SURR	↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 1/14/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W31660	BFB		A960	100					OK	
2	3W31661	CC1230-10		A969	100			✓	✓	OK	
3	3W31662	BS		A970	100			✓	✓	OK	
3	3W31663	BSD		A970	100			✓	✓	OK	
5	3W31664	MB		A960	400			✓	✓	OK	
6	3W31665	SCC		A336	400	1		↓	✓	RR	
7	3W31666	SCC		A1030	400	1		✓	✓	OK	
8	3W31667	JB25989-1	STD,Mup	A524	25	1		✓	✓	OK/DL	RR100ml
9	3W31668	JB25989-2	↓	A804,A716	200	53.2		✓	✓	OK/DL	RR200X
10	3W31669	JB25989-3		A530	25	1		✓	✓	OK/DL	RR100ml
11	3W31670	JB25989-4	↓	A562,A534	200	25.6		✓	✓	OK	
12	3W31671	JB25987-1	BTXM	A595	100	1		✓	✓	OK	
12	3W31672	JB25987-1Dup	↓	A595	100	1		✓	✓	OK	
13	3W31673	JB25987-2	↓	A397	160	1.60		✓	✓	OK	
14	3W31674	JB25987-3	↓	A807	100	1		✓	✓	OK	
15	3W31675	SCC		A336	400	1		✓	✓	OK	
16	3W31676	JB25898-1	STD	A289	400	1		✓	✓	OK/DL	RR40ml
1	3W31677	JB25898-2	↓	A990	800	3.32		✓	✓		
2	3W31678	JB25898-3	↓	A898	400	1		✓	✓	OK/DL	RR100ml
3	3W31679	JB25898-4	↓	A1001	400	1		✓	✓	OK/DL	RR40ml
4	3W31680	JB25898-5	↓	A093	400	1		↑	✓	DK/DL	RR40ml/100X
5	3W31681	JB25898-6	↓	A1011	400	1		↑	✓	OK/DL	RR40ml/50X
6	3W31682	JB25898-7	↓	A457	612	1.53		↑	✓	OK/DL	RR25ml
7	3W31683	JB25898-8	↓	A1013	400	1		↑	✓	RR	400ml
8	3W31684	JB25898-9	↓	A135	400	1		↑	✓	RR	RR40ml

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

17

ACCUTEST Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
1/11/13	YH	JB25989-2	A806	5.5	1.2	1.33	A716	1000	50	14.7	2000	40	53.2
1/11/13	YH	JB25989-4	A562	4.5	1.2	1.28	A534	1000	100	14.7	2000	20	25.6

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Batch ID: V3W1248

Date: 2/6/13

Analyst Signature:

Columns: RTX-1 60MX.32mm

Method: TO15 3W.M

Seq. File: 3W020613.S

Initial Cal. Method: M3W1230

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS5454	TO15STD	40ppbv
AS5453	TO15LCS	↓
AS5479	IS/SURR	↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 2/7/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W32166	BFB		A960	100					OK	
2	3W32167	CC1230-10		A969	100			✓	✓	OK	
3	3W32168	BS		A970	100			✓	✓	OK	
3	3W32169	BSD		A970	100			✓	✓	OK	
5	3W32170	MB		A960	400			✓	✓	OK	
5	3W32171	SCC		A762	400	1		✓	✓	OK	
6	3W32172	JB26886-1	STD	A367	150	1		✓	✓	OK	
7	3W32173	JB26886-3	↓	A665	150	1		✓	✓	OK	
8	3W32174	~~JB25~~JB26886-4	↓	A304	400	1		✓	✓	OK	
9	3W32175	JB26886-5	↓	A194	400	1		✓	✓	OK	
10	3W32176	SCC		A831	400	1		✓	✓	OK	
11	3W32177	JB27871-1	STD	A236	100	1		✓	✓	OK	
12	3W32178	JB27870-1	↓	A665	400	1		✓	✓	OK	
12	3W32179	JB27870-1Dup	↓	A668	400	1		✓	✓	OK	
13	3W32180	JB26886-6	STD	A163	400	1		✓	✓	OK	
14	3W32181	JB26886-7	↓	A079	400	1		✓	✓	OK/DL	RR200ml
15	3W32182	JB26886-8	↓	A834	400	1		✓	✓	OK	
16	3W32183	JB26886-21	↓	A486	592	1.48		✓	✓	OK/DL	RR200ml
1	3W32184	JB26886-22	↓	A145	400	1		✓	✓	OK	
2	3W32185	SCC		A325	400	1		✓	✓	OK	
3	3W32186	JB27907-1	STD+20	A532, A424	80	YH 2/13		✓	✓	OK	
4	3W32187	JB26886-4	STD	A304	200	1		✓	✓	OK	
5	3W32188	JB27727-7	STD	A999	400	1		✓	✓	OK/DL	RR100ml
6	3W32189	JB27727-8	↓	A168	400	1		✓	✓	OK	
7	3W32190	JB27727-9	↓	A200	400	1		✓	✓	OK	
8	3W32191	JB27727-10	↓	A084	400	1		✓	✓	OK	
9	3W32192	JB27727-11	↓	A881	400	1		✓	✓	OK	
10	3W32193	SCC		A577	400	1		✓	✓	OK	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

TO-14/TO-15

ACCUTEST

Batch ID: V3W1260

Date: 3/1/13

Analyst Signature:

Columns: RTX-160MX.32mm

Method: TO15 3W.M

Seq. File: 3W030113.S

Initial Cal. Method: M3W1230

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS5504	TO15STD	40ppbv
AS5505	TO15 LCS	↓
AS5474	IS/SURR	↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 3/4/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W32486	BFB		A960	100					OK	
2	3W32487	CC1230-10		A965	100					Initials	
2	3W32488	CC1230-10		A965	100			✓	✓	OK	
3	3W32489	BS		A975	100			✓	✓	OK	
3	3W32490	BSD		A975	100			✓	✓	OK	
5	3W32491	MB		A960	400			✓	✓	OK	
5	3W32492	SCC		A373	400	1		✓	✓	OK	
6	3W32493	JB30025-1	STD	A740	400	1		✓	✓	OK	
7	3W32494	JB30025-2	↓	A758	620	1.55		✓	✓	OK	
8	3W32495	JB30025-3		A1015	400	1		✓	✓	OK	
9	3W32496	JB30025-4	↓	A759	400	1		✓	✓	OK	
10	3W32497	SCC		A457	400	1		✓	✓	YH ~~RR~~ OK	~~Valve closed~~ YH
11	3W32498	JB30025-5	STD	A653	400	1		✓	✓	OK	
12	3W32499	JB30025-6	↓	A291	400	1		✓	✓	OK	
12	3W32500	JB30025-6Dup	↓	A241	400	1		✓	✓	OK	
13	3W32501	JB30025-7	↓	A1028	400	1		✓	✓	OK	
14	3W32502	JB30025-8	↓	A314	400	1		✓	✓	OK	
15	3W32503	SCC		A768	400	1		✓	✓	YH ~~RR~~ RR	Valve Closed
16	3W32504	JB29628-1	STD+Nap	A848	400	1		✓	✓	OK	
1	3W32505	JB29628-2	↓	A135	400	1		✓	✓	OK	
2	3W32506	JB29628-3	↓	A064	400	1		✓	✓	OK	
3	3W32507	JB29629-1	STD	A200	400	1		✓	✓	OK	
4	3W32508	JB29629-2	↓	A356	100	1		✓	✓	OK	
5	3W32509	JB29629-3	↓	A367	400	1		✓	✓	OK	
6	3W32510	JB29729-7	STD	A193	400	1		✓	✓	OK	
7	3W32511	JB29729-8	↓	A259	100	1		✓	✓	OK	
					YH						

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

L.A.B. Validation Corp, 14 West Point Drive, East Northport, NY 11731

DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY

ORGANIC ANALYSIS

TARGET COMPOUND LIST (TCL) VOLATILES BY GC/MS

For Groundwater Samples Collected
August 08, 2013 and August 09, 2013
From West Merrick Road, Freeport, NY
Elks Plaza
Collected by CA Rich Consultants

SAMPLE DELIVERY GROUP NUMBER:
JB44675
BY ACCUTEST LABORATORIES (ELAP #10983)

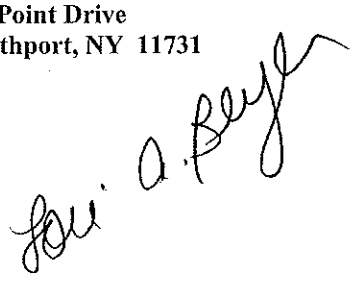
SUBMITTED TO:

Mr. Jason Cooper
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803

September 03, 2013

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731



(516) 523-7891; email LABValidation@aol.com

Elks Plaza, West Merrick Road, Freeport, NY – Groundwater Samples; August 2013 Sampling Event
Data Usability Summary Report (Data Validation): TCL Volatiles.

Table of Contents:

Introduction
Data Qualifier Definitions
Sample Receipt

1.0 Target Compound List (TCL) Volatile Organics by GC/MS SW846 Method 8260B
- 1.1 Holding Time
- 1.2 System Monitoring Compound (Surrogate) Recovery
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 1.4 Laboratory Control Sample/Blank Spikes
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check (Tuning)
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Field Duplicates
- 1.10 Target Compound List Identification
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

APPENDICES:

A. Data Summary Tables/Form Is with Qualifications
B. Chain of Custody Documents
C. SDG Narrative

Introduction:
A validation was performed on groundwater samples and the associated quality control samples for organic analysis for samples collected under chain of custody documentation by CA Rich Consultants and submitted to Accutest Laboratories for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. The groundwater samples were collected on August 08, 2013 and August 09, 2013.

The samples were analyzed by Accutest Laboratories, utilizing SW846 Methods and submitted under NYSDEC ASP Category B (2005) equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of the Target Compound/Analyte Lists for Volatile Organics.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic Data Review and EPA Region II SOPs for 8260 and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following samples:

Sample Identification	Laboratory Identification	Sample Matrix	Date Collected	Date Received
227 Smith (11-15')	JB44675-1	Groundwater	08/08/13	08/13/13
227 Smith (26-30') plus MS/MSD	JB44675-2, JB44675-2D, JB44675-2S	Groundwater	08/08/13	08/13/13
227 Smith (41-45')	JB44675-3	Groundwater	08/08/13	08/13/13
227 Smith (56-60')	JB44675-4	Groundwater	08/08/13	08/13/13
209 Smith (11-15')	JB44675-5	Groundwater	08/08/13	08/13/13
209 Smith (26-30')	JB44675-6	Groundwater	08/08/13	08/13/13
209 Smith (41-45')	JB44675-7	Groundwater	08/08/13	08/13/13
209 Smith (56-60'	JB44675-8	Groundwater	08/08/13	08/13/13
189 Smith (11-15')	JB44675-9	Groundwater	08/09/13	08/13/13
189 Smith (26-30')	JB44675-10	Groundwater	08/09/13	08/13/13
189 Smith (41-45')	JB44675-11	Groundwater	08/09/13	08/13/13
189 Smith (56-60')	JB44675-12	Groundwater	08/09/13	08/13/13
Field Blank 8/9/13	JB44675-13	Aqueous	08/09/13	08/13/13
Trip Blank	JB44675-14	Aqueous	08/09/13	08/13/13
MW-XX (Field Duplicate of 209 Smith (11-15')	JB44675-15	Groundwater	08/08/13	08/13/13

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

D – Indicates the value was obtained from a diluted analysis.

Sample Receipt:
The Chain of Custody documents indicate that the samples were received at Accutest Laboratories via laboratory courier on 08/13/13 upon completion of the sampling event. Sample login notes were generated. The cooler temperature for all samples were recorded upon receipt at Accutest Laboratories and determined to be acceptable (<6.0 degrees C). The actual temperature is recorded on the chain of custody document in addition to the case narratives provided in Appendix B and C of this report.

No unresolved problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The data summary tables included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. These tables summarize the detailed narrative section of the report.

NOTE:
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Target Analyte List (TCL) Volatile Organics by GC/MS SW846 Method 8260B

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable as noted within the following as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "UJ", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to this SDG.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence and were spiked with all components as required by the analytical procedure. Site-specific MS/MSD was performed by the laboratory on sample 227 Smith (26-30') as required by chain of custody. All spike recoveries and RPD fell within acceptance limits.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spike recovery values fell within acceptance limits.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methylene Chloride, Acetone, Toluene & 2-Butanone	Sample Conc. Is >CRQL, but </=10x blank value	Sample Conc. is <CRQL and </=10x blank value	Sample Conc. is >CRQL and >10x blank value
Other Contaminants	Sample Conc. Is >CRQL, but </=5x blank value	Sample Conc. Is <CRQL and </=5x blank value	Sample Conc. is >CRQL and >5x blank value

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

No target analytes were detected in the method blanks associated with sample analysis.

B) **Field Blank Contamination:**

Target analytes were not detected in the Field Blank.

C) **Trip Blank Contamination:**

No target analytes were detected in the Trip Blank associated with sample analysis.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:
The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05), for the initial and continuing calibrations for all reported TCL analytes.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor

(RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (30%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (25%) for all reported compounds.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Tert Butyl Alcohol-D9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with these SDGs.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples.

Groundwater sample 209 Smith (11-15') was collected in duplicate, a summary of positive detections (ug/L) is summarized below:

	227 Smith (26-30')	MW-XX
Carbon Disulfide	**0.27**	**0.22**
Tetrachloroethene	**1.5**	**1.4**

Acceptable precision was observed. No qualifications to the data are required.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846, response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Groundwater samples were analyzed undiluted.

1.12 Overall System Performance

Good resolution and chromatographic performance were observed. Raw data was reviewed and confirmed that no carryover exists for any analysis conducted with this data set.

Tentatively Identified Compounds (TICs) were not generated and therefore not evaluated.

Reviewer's Signature Lou Bey **Date** 09/03/13

Appendix B
Chain of Custody
Documents

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 1 OF 2

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # Pickup | Bottle Order Control #
Accutest Quote # | Accutest Job # JB44675

Client / Reporting Information

Company Name: CA Rich Consultants, Inc.
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail: eweinstock@carichinc.com
Phone #: 516-576-8844 Fax #: 516-576-0093
Sampler(s) Name(s): Sean Cooper Phone #:

Project Information

Project Name: Elks Plaza
Street: W. Merrick Road
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs 8260	LAB USE ONLY
1	227 Smith (11-14')		8/8/2013	0950	JC	GW	3	3								X	
	227 Smith (26-30')		8/8/2013	0913	JC	GW	3	3								X	435
2	227 Smith (26-30') MS		8/8/2013	0913	JC	GW	3	3								X	
	227 Smith (26-30') MSD		8/8/2013	0913	JC	GW	3	3								X	
3	227 Smith (41-45')		8/8/2013	0955	JC	GW	3	3								X	
4	227 Smith (56-60')		8/8/2013	1115	JC	GW	3	3								X	
5	209 Smith (11-15')		8/8/2013	1150	JC	GW	3	3								X	
6	209 Smith (26-30')		8/8/2013	1200	JC	GW	3	3								X	
7	209 Smith (41-45')		8/8/2013	1220	JC	GW	3	3								X	
8	209 Smith (56-60')		8/8/2013	1300	JC	GW	3	3								X	

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Labtink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [X] EDD Format NYS
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Sean Cooper		Derek Brandner	Derek Brandner	8-12-13	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time: 1804	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

2A

TK J6.00

JB44675: Chain of Custody
Page 1 of 5

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # Pickup | Bottle Order Control #
Accutest Quote # | Accutest Job # JB44675

Client / Reporting Information

Company Name: CA Rich Consultants Inc
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail:
Phone #: 516-576-8844 Fax #:
Sampler(s) Name(s): Jason Capp Phone #:

Project Information

Project Name: Elks Plaza
Street: W. Merrick Road
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC 8260	LAB USE ONLY
9	189 Smith		8/9/13	0835	JC	GW	3	3								X	
10	189 Smith		8/9/13	0900	JC	GW	3	3								X	
11	189 Smith		8/9/13	1000	JC	GW	3	3								X	
12	189 Smith		8/9/13	1115	JC	GW	3	3								X	
13	Field Blank 8/9		8/9/13	1200	JC	FB	2	2								X	
14	Trip Blank		8/8-8/9			TB	2									X	
15	MW-XX		8/8/13	0000	JC	GW	3	3								X	

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Labtink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [X] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format NYS
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Jason Capp		David Bardin	Heech Bardin	8-13-13	Ty Fin
3					1804	
5						

Custody Seal # | Intact | Not Intact | Preserved where applicable | On Ice | Cooler Temp.

2A

I b 0 C

JB44675: Chain of Custody
Page 2 of 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44675 **Client:** CA RICH **Project:** ELK PLAZA

Date / Time Received: 8/13/2013 18:04 **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (6/6); 0

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☐	☑

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (bag)	
4. No, Coolers		

Quality Control Preservatio	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☐	☑
3. Sample container label / COC agree:	☐	☑

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments 1. There are no collection times on any of the bottle labels.

2. Samples -9 thru -12 appear to have incomplete ID's written on the COC. With no collection times to cross reference, -9 thru -12 were set up according to the depth that appears on the sample bottle label.
-9: 189 Smith (11-15')
-10: 189 Smith (26-30')
-11: 189 Smith (41-45')
-12: 189 Smith (56-60')

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
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5 of 5

JB44675: Chain of Custody
Page 3 of 5

ACCUTEST LABORATORIES

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB44675

CSR: Kelly Patterson **Response Date:** 8/16/2013

Response: 1. Use collection times off the COC they are correct

2. Samples should read on the COC as:
-9: 189 Smith (11-14')
-10: 189 Smith (26-30')
-11: 189 Smith (41-45')
-12: 189 Smith (56-60')

Accutest Laboratories
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JB44675: Chain of Custody
Page 4 of 5

ACCUTEST LABORATORIES

Job Change Order: JB44675

Requested Date:	8/22/2013	**Received Date:**	8/13/2013
Account Name:	C. A. Rich Consultants	**Due Date:**	8/27/2013
Project Description:	Elks Plaza, Freeport, NY	**Deliverable:**	NYASPB
CSR:	kellyp	**TAT (Days):**	14

Sample #: JB44675-1
Dept:

Change:
Please revise sample ID to 227 Smith (11-15')

227 SMITH (11-14')

Sample #: JB44675-9
Dept:

Change:
Please revise sample ID to 189 Smith (11-15')

189 SMITH (11-14')

Above Changes Per: Jason Cooper **Date:** 8/22/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

5.1

JB44675: Chain of Custody
Page 5 of 5

Appendix C
SDG Narrative

ACCUTEST LABORATORIES

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB44675
Site:	Elks Plaza, Freeport, NY	**Report Date**	8/22/2013 11:25:29 A

On 08/13/2013, 13 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB44675 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V2E4207

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB44675-2MS, JB44675-2MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Appendix A
Data Summary Tables
With Qualifications

Table 6
Volatile Organic Compounds in Discreet Geoprobe Groundwater Samples
Elks Plaza
Freeport, NY

Sample ID	189 Smith 11-15 ft	189 Smith 26-30 ft	189 Smith 41-45 ft	189 Smith 56-60 ft	209 Smith 11-15 ft	209 Smith 26-30 ft	209 Smith 41-45 ft	209 Smith 56-60 ft	227 Smith 11-15 ft	227 Smith 26-30 ft	227 Smith 41-45 ft	227 Smith 56-60 ft	MW-XX	Field Blank 8/9	TRIP BLANK	*NYS TOGS
Depth																
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Field Blank Water	Trip Blank Water	Groundwater
Date Sampled	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/9/2013	8/9/2013	Standards
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatiles (SW846 8260B)																
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Carbon disulfide	ND	ND	0.21 J	ND	0.27 J	ND	0.22 J	0.20 J	ND	0.23 J	0.24 J	0.22 J	0.22 J	ND	ND	60
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	0.22 J	ND	ND	ND	0.27 J	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0006
1,2-Dichlorobenzene	ND	ND	0.37 J	0.22 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Freon 113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methyl Tert Butyl Ether	ND	ND	0.58 J	0.67 J	ND	ND	0.46 J	0.46 J	ND	ND	0.36 J	0.46 J	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	0.51 J	0.93 J	0.67 J	1.5	ND	5.6	9.8	ND	ND	1.6	3.1	1.4	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	ND	ND	ND	ND	ND	0.41 J	0.89 J	ND	ND	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5

Notes:
J- Analyte detected below quantitation limits.
ND- Not detected at or above laboratory detection limits.
NS- No standard for specific compound
*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient water Quality Standards and Guidance Values and Groundwater Effluent Limitations June 1998

Bold and Boxed Indicates Value Exceeds Standard
MW-XX is a duplicate of 209 Smith (11-15')
ug/l= micrograms per liter or parts per billion

Accutest Laboratories

Report of Analysis

Client Sample ID:	227 SMITH (11-15')		
Lab Sample ID:	JB44675-1	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93525.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	227 SMITH (11-15')		
Lab Sample ID:	JB44675-1	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	227 SMITH (26-30')	Date Sampled:	08/08/13
Lab Sample ID:	JB44675-2	Date Received:	08/13/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93524.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.23	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

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

Report of Analysis

Client Sample ID:	227 SMITH (26-30')		
Lab Sample ID:	JB44675-2	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	227 SMITH (41-45')		
Lab Sample ID:	JB44675-3	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93526.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.24	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	227 SMITH (41-45')		
Lab Sample ID:	JB44675-3	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.36	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	1.6	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	227 SMITH (56-60')	Date Sampled:	08/08/13
Lab Sample ID:	JB44675-4	Date Received:	08/13/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93527.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.22	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

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

Report of Analysis

Client Sample ID:	227 SMITH (56-60')		
Lab Sample ID:	JB44675-4	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.46	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	3.1	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	209 SMITH (11-15')		
Lab Sample ID:	JB44675-5	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93528.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.27	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	209 SMITH (11-15')		
Lab Sample ID:	JB44675-5	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	1.5	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Raw Data: 2E93529.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	209 SMITH (26-30')		
Lab Sample ID:	JB44675-6	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93529.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

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

Report of Analysis

Client Sample ID:	209 SMITH (26-30')		
Lab Sample ID:	JB44675-6	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	209 SMITH (41-45')		
Lab Sample ID:	JB44675-7	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93530.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.22	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.48	1.0	0.19	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	209 SMITH (41-45')		
Lab Sample ID:	JB44675-7	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.46	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	5.6	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	0.41	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	209 SMITH (56-60')		
Lab Sample ID:	JB44675-8	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93531.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.20	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	0.27	1.0	0.20	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	209 SMITH (56-60')		
Lab Sample ID:	JB44675-8	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.46	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	9.8	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	0.89	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	189 SMITH (11-15')		
Lab Sample ID:	JB44675-9	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93532.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (11-15')		
Lab Sample ID:	JB44675-9	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	189 SMITH (26-30')		
Lab Sample ID:	JB44675-10	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93533.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (26-30')		
Lab Sample ID:	JB44675-10	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	0.51	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	189 SMITH (41-45')		
Lab Sample ID:	JB44675-11	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93534.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.21	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	0.37	1.0	0.22	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (41-45')		
Lab Sample ID:	JB44675-11	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.58	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	0.93	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	189 SMITH (56-60')		
Lab Sample ID:	JB44675-12	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93535.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	0.22	1.0	0.20	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	0.22	1.0	0.22	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (56-60')		
Lab Sample ID:	JB44675-12	Date Sampled:	08/09/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.67	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	0.67	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	FIELD BLANK 8/9		
Lab Sample ID:	JB44675-13	Date Sampled:	08/09/13
Matrix:	AQ - Field Blank Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93522.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	FIELD BLANK 8/9		
Lab Sample ID:	JB44675-13	Date Sampled:	08/09/13
Matrix:	AQ - Field Blank Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB44675-14	Date Sampled:	08/09/13
Matrix:	AQ - Trip Blank Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93523.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB44675-14	Date Sampled:	08/09/13
Matrix:	AQ - Trip Blank Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Raw Data: 2E93536.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-XX		
Lab Sample ID:	JB44675-15	Date Sampled:	08/08/13
Matrix:	AQ - Ground Water	Date Received:	08/13/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93536.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.22	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-XX	Date Sampled:	08/08/13
Lab Sample ID:	JB44675-15	Date Received:	08/13/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	1.4	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

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

New Jersey ACCUTEST LABORATORIES

10/04/13

Technical Report for

C. A. Rich Consultants

Elks Plaza, Freeport, NY

GALAXY/ELKS PLAZA/SSD

Accutest Job Number: JB44675

Sampling Dates: 08/08/13 - 08/09/13

Report to:

C. A. Rich Consultants

jcooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **197**

ACCREDITED IN ACCORDANCE WITH nelac

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

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Summary of Hits **6**
Section 4: Sample Results **8**
4.1: JB44675-1: 227 SMITH (11-15') 9
4.2: JB44675-2: 227 SMITH (26-30') 11
4.3: JB44675-3: 227 SMITH (41-45') 13
4.4: JB44675-4: 227 SMITH (56-60') 15
4.5: JB44675-5: 209 SMITH (11-15') 17
4.6: JB44675-6: 209 SMITH (26-30') 19
4.7: JB44675-7: 209 SMITH (41-45') 21
4.8: JB44675-8: 209 SMITH (56-60') 23
4.9: JB44675-9: 189 SMITH (11-15') 25
4.10: JB44675-10: 189 SMITH (26-30') 27
4.11: JB44675-11: 189 SMITH (41-45') 29
4.12: JB44675-12: 189 SMITH (56-60') 31
4.13: JB44675-13: FIELD BLANK 8/9 33
4.14: JB44675-14: TRIP BLANK 35
4.15: JB44675-15: MW-XX 37
Section 5: Misc. Forms **39**
5.1: Chain of Custody 40
5.2: Sample Tracking Chronicle 45
5.3: Internal Chain of Custody 47
Section 6: GC/MS Volatiles - QC Data Summaries **50**
6.1: Method Blank Summary 51
6.2: Blank Spike Summary 53
6.3: Matrix Spike/Matrix Spike Duplicate Summary 55
6.4: Instrument Performance Checks (BFB) 57
6.5: Internal Standard Area Summaries 59
6.6: Surrogate Recovery Summaries 60
6.7: Initial and Continuing Calibration Summaries 61
Section 7: GC/MS Volatiles - Raw Data **72**
7.1: Samples 73
7.2: Method Blanks 121
7.3: Blank Spikes 123
7.4: Matrix Spike/Matrix Spike Duplicates 127
7.5: Instrument Performance Checks (BFB) 135
7.6: Initial and Continuing Calibarations 139
7.7: Instrument Run Logs 195

Sample Summary

C. A. Rich Consultants

Job No: JB44675

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44675-1	08/08/13	08:50	JC	08/13/13	AQ	Ground Water	227 SMITH (11-15')
JB44675-2	08/08/13	09:13	JC	08/13/13	AQ	Ground Water	227 SMITH (26-30')
JB44675-2D	08/08/13	09:13	JC	08/13/13	AQ	Water Dup/MSD	227 SMITH (26-30')
JB44675-2S	08/08/13	09:13	JC	08/13/13	AQ	Water Matrix Spike	227 SMITH (26-30')
JB44675-3	08/08/13	09:55	JC	08/13/13	AQ	Ground Water	227 SMITH (41-45')
JB44675-4	08/08/13	11:15	JC	08/13/13	AQ	Ground Water	227 SMITH (56-60')
JB44675-5	08/08/13	11:50	JC	08/13/13	AQ	Ground Water	209 SMITH (11-15')
JB44675-6	08/08/13	12:00	JC	08/13/13	AQ	Ground Water	209 SMITH (26-30')
JB44675-7	08/08/13	12:20	JC	08/13/13	AQ	Ground Water	209 SMITH (41-45')
JB44675-8	08/08/13	13:00	JC	08/13/13	AQ	Ground Water	209 SMITH (56-60')
JB44675-9	08/09/13	08:35	JC	08/13/13	AQ	Ground Water	189 SMITH (11-15')
JB44675-10	08/09/13	09:00	JC	08/13/13	AQ	Ground Water	189 SMITH (26-30')
JB44675-11	08/09/13	10:00	JC	08/13/13	AQ	Ground Water	189 SMITH (41-45')

Sample Summary
(continued)

C. A. Rich Consultants

Job No: JB44675

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44675-12	08/09/13	11:15	JC	08/13/13	AQ	Ground Water	189 SMITH (56-60')
JB44675-13	08/09/13	12:00	JC	08/13/13	AQ	Field Blank Water	FIELD BLANK 8/9
JB44675-14	08/09/13	12:00	JC	08/13/13	AQ	Trip Blank Water	TRIP BLANK
JB44675-15	08/08/13	00:00	JC	08/13/13	AQ	Ground Water	MW-XX

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB44675
Site:	Elks Plaza, Freeport, NY	**Report Date**	8/22/2013 11:25:29 A

On 08/13/2013, 13 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB44675 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V2E4207

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB44675-2MS, JB44675-2MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB44675
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/08/13 thru 08/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44675-1	**227 SMITH (11-15')**					
No hits reported in this sample.						
JB44675-2	**227 SMITH (26-30')**					
Carbon disulfide		0.23 J	2.0	0.19	ug/l	SW846 8260B
JB44675-3	**227 SMITH (41-45')**					
Carbon disulfide		0.24 J	2.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.36 J	1.0	0.16	ug/l	SW846 8260B
Tetrachloroethene		1.6	1.0	0.28	ug/l	SW846 8260B
JB44675-4	**227 SMITH (56-60')**					
Carbon disulfide		0.22 J	2.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.46 J	1.0	0.16	ug/l	SW846 8260B
Tetrachloroethene		3.1	1.0	0.28	ug/l	SW846 8260B
JB44675-5	**209 SMITH (11-15')**					
Carbon disulfide		0.27 J	2.0	0.19	ug/l	SW846 8260B
Tetrachloroethene		1.5	1.0	0.28	ug/l	SW846 8260B
JB44675-6	**209 SMITH (26-30')**					
No hits reported in this sample.						
JB44675-7	**209 SMITH (41-45')**					
Carbon disulfide		0.22 J	2.0	0.19	ug/l	SW846 8260B
cis-1,2-Dichloroethene		0.48 J	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.46 J	1.0	0.16	ug/l	SW846 8260B
Tetrachloroethene		5.6	1.0	0.28	ug/l	SW846 8260B
Trichloroethene		0.41 J	1.0	0.22	ug/l	SW846 8260B
JB44675-8	**209 SMITH (56-60')**					
Carbon disulfide		0.20 J	2.0	0.19	ug/l	SW846 8260B
Chloroform		0.27 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.46 J	1.0	0.16	ug/l	SW846 8260B
Tetrachloroethene		9.8	1.0	0.28	ug/l	SW846 8260B
Trichloroethene		0.89 J	1.0	0.22	ug/l	SW846 8260B

Summary of Hits

Job Number: JB44675
Account: C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Collected: 08/08/13 thru 08/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44675-9	**189 SMITH (11-15')**					
No hits reported in this sample.						
JB44675-10	**189 SMITH (26-30')**					
Tetrachloroethene		0.51 J	1.0	0.28	ug/l	SW846 8260B
JB44675-11	**189 SMITH (41-45')**					
Carbon disulfide		0.21 J	2.0	0.19	ug/l	SW846 8260B
1,2-Dichlorobenzene		0.37 J	1.0	0.22	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.58 J	1.0	0.16	ug/l	SW846 8260B
Tetrachloroethene		0.93 J	1.0	0.28	ug/l	SW846 8260B
JB44675-12	**189 SMITH (56-60')**					
Chloroform		0.22 J	1.0	0.20	ug/l	SW846 8260B
1,2-Dichlorobenzene		0.22 J	1.0	0.22	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.67 J	1.0	0.16	ug/l	SW846 8260B
Tetrachloroethene		0.67 J	1.0	0.28	ug/l	SW846 8260B
JB44675-13	**FIELD BLANK 8/9**					
No hits reported in this sample.						
JB44675-14	**TRIP BLANK**					
No hits reported in this sample.						
JB44675-15	**MW-XX**					
Carbon disulfide		0.22 J	2.0	0.19	ug/l	SW846 8260B
Tetrachloroethene		1.4	1.0	0.28	ug/l	SW846 8260B

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	227 SMITH (11-15')		
Lab Sample ID:	JB44675-1	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93525.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	227 SMITH (11-15')		
Lab Sample ID:	JB44675-1	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	227 SMITH (26-30')		
Lab Sample ID:	JB44675-2	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93524.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.23	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	227 SMITH (26-30')		
Lab Sample ID:	JB44675-2	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	227 SMITH (41-45')		
Lab Sample ID:	JB44675-3	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93526.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.24	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	227 SMITH (41-45')		
Lab Sample ID:	JB44675-3	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.36	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	1.6	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	227 SMITH (56-60')		
Lab Sample ID:	JB44675-4	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93527.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.22	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	227 SMITH (56-60')		
Lab Sample ID:	JB44675-4	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.46	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	3.1	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	209 SMITH (11-15')		
Lab Sample ID:	JB44675-5	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93528.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.27	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	209 SMITH (11-15')		
Lab Sample ID:	JB44675-5	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	1.5	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	209 SMITH (26-30')		
Lab Sample ID:	JB44675-6	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93529.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	209 SMITH (26-30')		
Lab Sample ID:	JB44675-6	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	209 SMITH (41-45')		
Lab Sample ID:	JB44675-7	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93530.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.22	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.48	1.0	0.19	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	209 SMITH (41-45')		
Lab Sample ID:	JB44675-7	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.46	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	5.6	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	0.41	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	209 SMITH (56-60')		
Lab Sample ID:	JB44675-8	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93531.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.20	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	0.27	1.0	0.20	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	209 SMITH (56-60')		
Lab Sample ID:	JB44675-8	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.46	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	9.8	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	0.89	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	189 SMITH (11-15')		
Lab Sample ID:	JB44675-9	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93532.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (11-15')		
Lab Sample ID:	JB44675-9	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	189 SMITH (26-30')		
Lab Sample ID:	JB44675-10	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93533.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (26-30')		
Lab Sample ID:	JB44675-10	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	0.51	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	189 SMITH (41-45')		
Lab Sample ID:	JB44675-11	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93534.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.21	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	0.37	1.0	0.22	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (41-45')		
Lab Sample ID:	JB44675-11	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.58	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	0.93	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	189 SMITH (56-60')		
Lab Sample ID:	JB44675-12	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93535.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	0.22	1.0	0.20	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	0.22	1.0	0.22	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	189 SMITH (56-60')		
Lab Sample ID:	JB44675-12	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.67	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	0.67	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	FIELD BLANK 8/9		
Lab Sample ID:	JB44675-13	**Date Sampled:**	08/09/13
Matrix:	AQ - Field Blank Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93522.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	FIELD BLANK 8/9		
Lab Sample ID:	JB44675-13	**Date Sampled:**	08/09/13
Matrix:	AQ - Field Blank Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB44675-14	**Date Sampled:**	08/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93523.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB44675-14	**Date Sampled:**	08/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

Accutest LabLink@755576 10:16 04-Oct-2013

Report of Analysis

Client Sample ID:	MW-XX		
Lab Sample ID:	JB44675-15	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E93536.D	1	08/17/13	TYG	n/a	n/a	V2E4207
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	0.22	2.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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

Report of Analysis

Client Sample ID:	MW-XX		
Lab Sample ID:	JB44675-15	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elks Plaza, Freeport, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	1.4	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY

PAGE 1 OF 2

ACCUTEST LABORATORIES

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # Pickup | Bottle Order Control #

Accutest Quote # | Accutest Job # JB44675

Client / Reporting Information

Company Name: CA Rich Consultants, Inc.
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail: eweinstock@carichinc.com
Phone #: 516-576-8844 Fax #: 516-576-0093
Sampler(s) Name(s): Jason Cooper Phone #:

Project Information

Project Name: Elks Plaza
Street: W. Merrick Road
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs 8260	LAB USE ONLY
1	227 Smith (11-14')		8/8/2013	0850	JC	GW	3	3								X	
	227 Smith (26-30')		8/8/2013	0913	JC	GW	3	3								X	435
2	227 Smith (26-30) MS		8/8/2013	0913	JC	GW	3	3								X	
	227 Smith (26-30) MSD		8/8/2013	0913	JC	GW	3	3								X	
3	227 Smith (41-45')		8/8/2013	0955	JC	GW	3	3								X	
4	227 Smith (56-60')		8/8/2013	1115	JC	GW	3	3								X	
5	209 Smith (11-15')		8/8/2013	1150	JC	GW	3	3								X	
6	209 Smith (26-30')		8/8/2013	1200	JC	GW	3	3								X	
7	209 Smith (41-45')		8/8/2013	1220	JC	GW	3	3								X	
8	209 Smith (56-60')		8/8/2013	1300	JC	GW	3	3								X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [X] EDD Format NYS
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Jason Cooper		Derek Brandner	Derek Brandner	8-12-13 1804	2
3			3			4
5			5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp.

ZA

TK J6.0.0

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # Pickup | Bottle Order Control #
Accutest Quote # | Accutest Job # TB44675

Client / Reporting Information

Company Name: CA Rich Consultants Inc
Street Address: 17 Dupont Street
City: Plainview State: NY Zip: 11803
Project Contact: Eric Weinstock E-mail:
Phone #: 516-576-8844 Fax #:
Sampler(s) Name(s): Jason Cooper Phone #:

Project Information

Project Name: Elks Plaza
Street: W. Merrick Road
City: Freeport State: NY
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
9	189 Smith		8/9/13	0835	JC	GW	3	3								X
10	189 Smith		8/9/13	0900	JC	GW	3	3								X
11	189 Smith		8/9/13	1000	JC	GW	3	3								X
12	189 Smith		8/9/13	1115	JC	GW	3	3								X
13	Field Blank 8/9		8/9/13	1200	JC	FB	2	2								X
14	Trip Blank		8/8-8/9			TB	2									X
15	MW-XX		8/8/13	0000	JC	GW	3	3								X

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [X] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format NYS
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1				2	8.13.13 1804	2
3			3	4		4
5			5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp.

2A

I b d @

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44675 **Client:** CA RICH **Project:** ELK PLAZA

Date / Time Received: 8/13/2013 18:04 **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (6/6); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☐		☑

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (bag)		
4. No, Coolers			

Quality Control Preservatio	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☐		☑
3. Sample container label / COC agree:	☐		☑

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments 1. There are no collection times on any of the bottle labels.

2. Samples -9 thru -12 appear to have incomplete ID's written on the COC. With no collection times to cross reference, -9 thru -12 were set up according to the depth that appears on the sample bottle label.
-9: 189 Smith (11-15')
-10: 189 Smith (26-30')
-11: 189 Smith (41-45')
-12: 189 Smith (56-60')

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB44675: Chain of Custody
Page 3 of 5

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB44675

CSR: Kelly Patterson **Response Date:** 8/16/2013

Response: 1. Use collection times off the COC they are correct

2. Samples should read on the COC as:
-9: 189 Smith (11-14')
-10: 189 Smith (26-30')
-11: 189 Smith (41-45')
-12: 189 Smith (56-60')

Accutest Laboratories
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2235 US Highway 130
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Dayton, New Jersey
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JB44675: Chain of Custody
Page 4 of 5

ACCUTEST LABORATORIES

Job Change Order: JB44675

Requested Date:	8/22/2013	**Received Date:**	8/13/2013
Account Name:	C. A. Rich Consultants	**Due Date:**	8/27/2013
Project Description:	Elks Plaza, Freeport, NY	**Deliverable:**	NYASPB
CSR:	kellyp	**TAT (Days):**	14

Sample #: JB44675-1

Dept:

Change:
Please revise sample ID to 227 Smith (11-15')

227 SMITH (11-14')

Sample #: JB44675-9

Dept:

Change:
Please revise sample ID to 189 Smith (11-15')

189 SMITH (11-14')

Above Changes Per: Jason Cooper **Date:** 8/22/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

JB44675: Chain of Custody
Page 5 of 5

Internal Sample Tracking Chronicle

C. A. Rich Consultants

Job No: JB44675

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB44675-1	Collected: 08-AUG-13 08:50 By: JC			Received: 13-AUG-13	By: TH	
227 SMITH (11-15')						
JB44675-1	SW846 8260B	17-AUG-13 01:56	TYG			V8260TCL11
JB44675-2	Collected: 08-AUG-13 09:13 By: JC			Received: 13-AUG-13	By: TH	
227 SMITH (26-30')						
JB44675-2	SW846 8260B	17-AUG-13 01:27	TYG			V8260TCL11
JB44675-3	Collected: 08-AUG-13 09:55 By: JC			Received: 13-AUG-13	By: TH	
227 SMITH (41-45')						
JB44675-3	SW846 8260B	17-AUG-13 02:25	TYG			V8260TCL11
JB44675-4	Collected: 08-AUG-13 11:15 By: JC			Received: 13-AUG-13	By: TH	
227 SMITH (56-60')						
JB44675-4	SW846 8260B	17-AUG-13 02:54	TYG			V8260TCL11
JB44675-5	Collected: 08-AUG-13 11:50 By: JC			Received: 13-AUG-13	By: TH	
209 SMITH (11-15')						
JB44675-5	SW846 8260B	17-AUG-13 03:23	TYG			V8260TCL11
JB44675-6	Collected: 08-AUG-13 12:00 By: JC			Received: 13-AUG-13	By: TH	
209 SMITH (26-30')						
JB44675-6	SW846 8260B	17-AUG-13 03:52	TYG			V8260TCL11
JB44675-7	Collected: 08-AUG-13 12:20 By: JC			Received: 13-AUG-13	By: TH	
209 SMITH (41-45')						
JB44675-7	SW846 8260B	17-AUG-13 04:21	TYG			V8260TCL11
JB44675-8	Collected: 08-AUG-13 13:00 By: JC			Received: 13-AUG-13	By: TH	
209 SMITH (56-60')						
JB44675-8	SW846 8260B	17-AUG-13 04:50	TYG			V8260TCL11

Internal Sample Tracking Chronicle

C. A. Rich Consultants

Job No: JB44675

Elks Plaza, Freeport, NY
Project No: GALAXY/ELKS PLAZA/SSD

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB44675-9	Collected: 09-AUG-13 08:35 By: JC		Received: 13-AUG-13		By: TH	
189 SMITH (11-15')						
JB44675-9	SW846 8260B	17-AUG-13 05:19	TYG			V8260TCL11
JB44675-10	Collected: 09-AUG-13 09:00 By: JC		Received: 13-AUG-13		By: TH	
189 SMITH (26-30')						
JB44675-10	SW846 8260B	17-AUG-13 05:48	TYG			V8260TCL11
JB44675-11	Collected: 09-AUG-13 10:00 By: JC		Received: 13-AUG-13		By: TH	
189 SMITH (41-45')						
JB44675-11	SW846 8260B	17-AUG-13 06:17	TYG			V8260TCL11
JB44675-12	Collected: 09-AUG-13 11:15 By: JC		Received: 13-AUG-13		By: TH	
189 SMITH (56-60')						
JB44675-12	SW846 8260B	17-AUG-13 06:47	TYG			V8260TCL11
JB44675-13	Collected: 09-AUG-13 12:00 By: JC		Received: 13-AUG-13		By: TH	
FIELD BLANK 8/9						
JB44675-13	SW846 8260B	17-AUG-13 00:29	TYG			V8260TCL11
JB44675-14	Collected: 09-AUG-13 12:00 By: JC		Received: 13-AUG-13		By: TH	
TRIP BLANK						
JB44675-14	SW846 8260B	17-AUG-13 00:58	TYG			V8260TCL11
JB44675-15	Collected: 08-AUG-13 00:00 By: JC		Received: 13-AUG-13		By: TH	
MW-XX						
JB44675-15	SW846 8260B	17-AUG-13 07:16	TYG			V8260TCL11

Accutest Internal Chain of Custody

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Received: 08/13/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB44675-1.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-1.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-1.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-1.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-1.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-2.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-2.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-2.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-2.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-2.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-2.2	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-2.2	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-2.2	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-2.2	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-2.2	Darnell Brown		09/16/13 08:54	Disposed
JB44675-2.3	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-2.3	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-2.3	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-2.3	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-2.3	Darnell Brown		09/16/13 08:54	Disposed
JB44675-3.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-3.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-3.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-3.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-3.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-4.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-4.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-4.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-4.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-4.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-5.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-5.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-5.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-5.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-5.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-6.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-6.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Received: 08/13/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB44675-6.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-6.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-6.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-7.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-7.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-7.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-7.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-7.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-8.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-8.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-8.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-8.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-8.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-9.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-9.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-9.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-9.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-9.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-10.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-10.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-10.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-10.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-10.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-11.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-11.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-11.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-11.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-11.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-12.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-12.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-12.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-12.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-12.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-13.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-13.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-13.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-13.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY
Received: 08/13/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB44675-13.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-14.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-14.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-14.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-14.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-14.1	Darnell Brown		09/16/13 08:54	Disposed
JB44675-15.1	Secured Storage	Tamika Yvonne Ginn	08/16/13 15:28	Retrieve from Storage
JB44675-15.1	Tamika Yvonne Ginn	GCMS2E	08/16/13 15:28	Load on Instrument
JB44675-15.1	GCMS2E	Emily Tran	08/17/13 08:03	Unload from Instrument
JB44675-15.1	Emily Tran	Secured Storage	08/17/13 08:03	Return to Storage
JB44675-15.1	Darnell Brown		09/16/13 08:54	Disposed

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4207-MB	2E93517.D	1	08/16/13	TYG	n/a	n/a	V2E4207

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

JB44675-1, JB44675-2, JB44675-3, JB44675-4, JB44675-5, JB44675-6, JB44675-7, JB44675-8, JB44675-9, JB44675-10, JB44675-11, JB44675-12, JB44675-13, JB44675-14, JB44675-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	

Method Blank Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4207-MB	2E93517.D	1	08/16/13	TYG	n/a	n/a	V2E4207

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

JB44675-1, JB44675-2, JB44675-3, JB44675-4, JB44675-5, JB44675-6, JB44675-7, JB44675-8, JB44675-9, JB44675-10, JB44675-11, JB44675-12, JB44675-13, JB44675-14, JB44675-15

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-117%
17060-07-0	1,2-Dichloroethane-D4	96%	72-123%
2037-26-5	Toluene-D8	98%	82-118%
460-00-4	4-Bromofluorobenzene	90%	75-118%

Blank Spike Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4207-BS	2E93518.D	1	08/16/13	TYG	n/a	n/a	V2E4207

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

JB44675-1, JB44675-2, JB44675-3, JB44675-4, JB44675-5, JB44675-6, JB44675-7, JB44675-8, JB44675-9, JB44675-10, JB44675-11, JB44675-12, JB44675-13, JB44675-14, JB44675-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	53.6	107	49-153
71-43-2	Benzene	50	54.5	109	80-119
74-97-5	Bromochloromethane	50	53.9	108	84-123
75-27-4	Bromodichloromethane	50	54.9	110	83-127
75-25-2	Bromoform	50	53.6	107	71-133
74-83-9	Bromomethane	50	67.1	134	62-143
78-93-3	2-Butanone (MEK)	50	57.8	116	64-136
75-15-0	Carbon disulfide	50	49.5	99	71-127
56-23-5	Carbon tetrachloride	50	55.1	110	78-138
108-90-7	Chlorobenzene	50	52.7	105	83-118
75-00-3	Chloroethane	50	66.3	133	67-143
67-66-3	Chloroform	50	52.7	105	81-124
74-87-3	Chloromethane	50	50.1	100	56-146
110-82-7	Cyclohexane	50	52.4	105	69-134
96-12-8	1,2-Dibromo-3-chloropropane	50	52.2	104	63-137
124-48-1	Dibromochloromethane	50	53.5	107	79-125
106-93-4	1,2-Dibromoethane	50	52.8	106	79-122
95-50-1	1,2-Dichlorobenzene	50	52.6	105	81-120
541-73-1	1,3-Dichlorobenzene	50	52.2	104	81-120
106-46-7	1,4-Dichlorobenzene	50	50.7	101	81-117
75-71-8	Dichlorodifluoromethane	50	41.6	83	43-143
75-34-3	1,1-Dichloroethane	50	55.5	111	80-129
107-06-2	1,2-Dichloroethane	50	54.9	110	75-133
75-35-4	1,1-Dichloroethene	50	52.2	104	74-127
156-59-2	cis-1,2-Dichloroethene	50	55.2	110	79-123
156-60-5	trans-1,2-Dichloroethene	50	52.2	104	75-123
78-87-5	1,2-Dichloropropane	50	55.0	110	80-125
10061-01-5	cis-1,3-Dichloropropene	50	47.8	96	76-118
10061-02-6	trans-1,3-Dichloropropene	50	52.6	105	79-123
123-91-1	1,4-Dioxane	1250	1390	111	54-143
100-41-4	Ethylbenzene	50	53.7	107	82-119
76-13-1	Freon 113	50	40.7	81	58-140
591-78-6	2-Hexanone	50	51.8	104	60-136
98-82-8	Isopropylbenzene	50	55.7	111	77-127
79-20-9	Methyl Acetate	50	43.7	87	37-156
108-87-2	Methylcyclohexane	50	38.3	77	63-136

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4207-BS	2E93518.D	1	08/16/13	TYG	n/a	n/a	V2E4207

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

JB44675-1, JB44675-2, JB44675-3, JB44675-4, JB44675-5, JB44675-6, JB44675-7, JB44675-8, JB44675-9, JB44675-10, JB44675-11, JB44675-12, JB44675-13, JB44675-14, JB44675-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	100	101	101	75-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	54.6	109	67-133
75-09-2	Methylene chloride	50	51.8	104	74-123
100-42-5	Styrene	50	52.0	104	80-120
79-34-5	1,1,2,2-Tetrachloroethane	50	54.4	109	69-125
127-18-4	Tetrachloroethene	50	53.5	107	73-134
108-88-3	Toluene	50	55.2	110	82-120
87-61-6	1,2,3-Trichlorobenzene	50	56.0	112	63-138
120-82-1	1,2,4-Trichlorobenzene	50	52.1	104	74-136
71-55-6	1,1,1-Trichloroethane	50	56.9	114	80-131
79-00-5	1,1,2-Trichloroethane	50	54.8	110	79-124
79-01-6	Trichloroethene	50	55.0	110	84-126
75-69-4	Trichlorofluoromethane	50	53.2	106	67-145
75-01-4	Vinyl chloride	50	47.8	96	57-132
	m,p-Xylene	100	107	107	81-119
95-47-6	o-Xylene	50	53.9	108	82-120
1330-20-7	Xylene (total)	150	161	107	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	79-117%
17060-07-0	1,2-Dichloroethane-D4	99%	72-123%
2037-26-5	Toluene-D8	100%	82-118%
460-00-4	4-Bromofluorobenzene	95%	75-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB44675-2MS	2E93519.D	1	08/16/13	TYG	n/a	n/a	V2E4207
JB44675-2MSD	2E93520.D	1	08/16/13	TYG	n/a	n/a	V2E4207
JB44675-2	2E93524.D	1	08/17/13	TYG	n/a	n/a	V2E4207

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

JB44675-1, JB44675-2, JB44675-3, JB44675-4, JB44675-5, JB44675-6, JB44675-7, JB44675-8, JB44675-9, JB44675-10, JB44675-11, JB44675-12, JB44675-13, JB44675-14, JB44675-15

CAS No.	Compound	JB44675-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	50.0	100	49.1	98	2	45-157/19
71-43-2	Benzene	ND		50	50.5	101	49.3	99	2	49-138/12
74-97-5	Bromochloromethane	ND		50	49.3	99	48.5	97	2	75-130/12
75-27-4	Bromodichloromethane	ND		50	51.2	102	48.8	98	5	73-132/13
75-25-2	Bromoform	ND		50	48.6	97	46.0	92	5	61-138/13
74-83-9	Bromomethane	ND		50	61.7	123	58.9	118	5	49-146/18
78-93-3	2-Butanone (MEK)	ND		50	51.8	104	49.4	99	5	58-144/14
75-15-0	Carbon disulfide	0.23	J	50	48.8	97	46.0	92	6	47-140/18
56-23-5	Carbon tetrachloride	ND		50	51.6	103	49.9	100	3	57-147/16
108-90-7	Chlorobenzene	ND		50	49.0	98	47.4	95	3	69-129/12
75-00-3	Chloroethane	ND		50	60.4	121	58.6	117	3	52-145/17
67-66-3	Chloroform	ND		50	49.7	99	47.7	95	4	68-131/13
74-87-3	Chloromethane	ND		50	56.8	114	54.4	109	4	43-145/17
110-82-7	Cyclohexane	ND		50	45.4	91	43.5	87	4	39-152/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	46.8	94	46.7	93	0	58-143/14
124-48-1	Dibromochloromethane	ND		50	48.5	97	46.9	94	3	71-131/12
106-93-4	1,2-Dibromoethane	ND		50	47.9	96	46.4	93	3	72-130/12
95-50-1	1,2-Dichlorobenzene	ND		50	48.4	97	47.2	94	3	71-128/12
541-73-1	1,3-Dichlorobenzene	ND		50	48.3	97	46.5	93	4	70-128/13
106-46-7	1,4-Dichlorobenzene	ND		50	46.8	94	45.2	90	3	70-126/12
75-71-8	Dichlorodifluoromethane	ND		50	44.5	89	41.8	84	6	35-161/21
75-34-3	1,1-Dichloroethane	ND		50	51.1	102	49.3	99	4	64-136/14
107-06-2	1,2-Dichloroethane	ND		50	49.3	99	47.8	96	3	69-138/12
75-35-4	1,1-Dichloroethene	ND		50	49.7	99	47.1	94	5	50-141/17
156-59-2	cis-1,2-Dichloroethene	ND		50	51.5	103	49.4	99	4	60-135/13
156-60-5	trans-1,2-Dichloroethene	ND		50	50.2	100	48.8	98	3	58-134/15
78-87-5	1,2-Dichloropropane	ND		50	49.6	99	48.5	97	2	69-132/12
10061-01-5	cis-1,3-Dichloropropene	ND		50	46.2	92	45.1	90	2	73-129/13
10061-02-6	trans-1,3-Dichloropropene	ND		50	47.1	94	45.9	92	3	72-129/13
123-91-1	1,4-Dioxane	ND		1250	1320	106	1250	100	5	51-152/29
100-41-4	Ethylbenzene	ND		50	50.5	101	48.8	98	3	48-139/13
76-13-1	Freon 113	ND		50	44.3	89	39.3	79	12	43-153/20
591-78-6	2-Hexanone	ND		50	47.2	94	51.5	103	9	55-146/15
98-82-8	Isopropylbenzene	ND		50	53.4	107	51.5	103	4	61-138/14
79-20-9	Methyl Acetate	ND		50	38.9	78	36.8	74	6	43-158/14
108-87-2	Methylcyclohexane	ND		50	42.4	85	39.0	78	8	42-153/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB44675-2MS	2E93519.D	1	08/16/13	TYG	n/a	n/a	V2E4207
JB44675-2MSD	2E93520.D	1	08/16/13	TYG	n/a	n/a	V2E4207
JB44675-2	2E93524.D	1	08/17/13	TYG	n/a	n/a	V2E4207

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

JB44675-1, JB44675-2, JB44675-3, JB44675-4, JB44675-5, JB44675-6, JB44675-7, JB44675-8, JB44675-9, JB44675-10, JB44675-11, JB44675-12, JB44675-13, JB44675-14, JB44675-15

CAS No.	Compound	JB44675-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		50	48.0	96	46.6	93	3	63-134/12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	47.7	95	46.6	93	2	62-144/13
75-09-2	Methylene chloride	ND		50	47.6	95	45.8	92	4	64-131/13
100-42-5	Styrene	ND		50	47.8	96	46.0	92	4	62-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	50.2	100	49.0	98	2	65-134/12
127-18-4	Tetrachloroethene	ND		50	49.9	100	48.3	97	3	53-144/15
108-88-3	Toluene	ND		50	52.0	104	50.5	101	3	54-138/13
87-61-6	1,2,3-Trichlorobenzene	ND		50	51.2	102	49.5	99	3	55-142/15
120-82-1	1,2,4-Trichlorobenzene	ND		50	47.4	95	45.7	91	4	64-138/14
71-55-6	1,1,1-Trichloroethane	ND		50	54.7	109	52.1	104	5	60-143/15
79-00-5	1,1,2-Trichloroethane	ND		50	48.1	96	47.2	94	2	71-130/12
79-01-6	Trichloroethene	ND		50	50.6	101	49.8	100	2	59-140/14
75-69-4	Trichlorofluoromethane	ND		50	53.9	108	52.0	104	4	50-158/20
75-01-4	Vinyl chloride	ND		50	58.5	117	56.4	113	4	41-151/18
	m,p-Xylene	ND		100	101	101	97.5	98	4	49-138/13
95-47-6	o-Xylene	ND		50	50.8	102	49.7	99	2	59-134/12
1330-20-7	Xylene (total)	ND		150	152	101	147	98	3	53-136/12

CAS No.	Surrogate Recoveries	MS	MSD	JB44675-2	Limits
1868-53-7	Dibromofluoromethane	99%	98%	98%	79-117%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	96%	72-123%
2037-26-5	Toluene-D8	100%	99%	98%	82-118%
460-00-4	4-Bromofluorobenzene	95%	95%	93%	75-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-BFB
Lab File ID: 2E93426.D
Instrument ID: GCMS2E
Injection Date: 08/14/13
Injection Time: 09:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8966	17.1		Pass
75	30.0 - 60.0% of mass 95	24208	46.1		Pass
95	Base peak, 100% relative abundance	52504	100.0		Pass
96	5.0 - 9.0% of mass 95	3502	6.67		Pass
173	Less than 2.0% of mass 174	217	0.41	(0.55) [a]	Pass
174	50.0 - 120.0% of mass 95	39429	75.1		Pass
175	5.0 - 9.0% of mass 174	3044	5.80	(7.72) [a]	Pass
176	95.0 - 101.0% of mass 174	38008	72.4	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2677	5.10	(7.04) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E4202-IC4202	2E93428.D	08/14/13	10:47	00:59	Initial cal 1
V2E4202-IC4202	2E93429.D	08/14/13	11:16	01:28	Initial cal 2
V2E4202-IC4202	2E93430.D	08/14/13	11:45	01:57	Initial cal 5
V2E4202-IC4202	2E93431.D	08/14/13	12:14	02:26	Initial cal 10
V2E4202-IC4202	2E93432.D	08/14/13	12:43	02:55	Initial cal 20
V2E4202-ICC4202	2E93433.D	08/14/13	13:12	03:24	Initial cal 50
V2E4202-IC4202	2E93434.D	08/14/13	13:41	03:53	Initial cal 100
V2E4202-IC4202	2E93435.D	08/14/13	14:10	04:22	Initial cal 200
V2E4202-IC4202	2E93438.D	08/14/13	15:37	05:49	Initial cal 0.5
V2E4202-IC4202	2E93439.D	08/14/13	16:06	06:18	Initial cal 75
V2E4202-ICV4202	2E93440.D	08/14/13	16:47	06:59	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4207-BFB
Lab File ID: 2E93514.D
Instrument ID: GCMS2E
Injection Date: 08/16/13
Injection Time: 20:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11846	17.3		Pass
75	30.0 - 60.0% of mass 95	32053	46.8		Pass
95	Base peak, 100% relative abundance	68469	100.0		Pass
96	5.0 - 9.0% of mass 95	4644	6.78		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	53085	77.5		Pass
175	5.0 - 9.0% of mass 174	4160	6.08	(7.84) [a]	Pass
176	95.0 - 101.0% of mass 174	52152	76.2	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3234	4.72	(6.20) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E4207-CC4202	2E93515.D	08/16/13	21:06	00:29	Continuing cal 50
V2E4207-MB	2E93517.D	08/16/13	22:04	01:27	Method Blank
V2E4207-BS	2E93518.D	08/16/13	22:33	01:56	Blank Spike
JB44675-2MS	2E93519.D	08/16/13	23:02	02:25	Matrix Spike
JB44675-2MSD	2E93520.D	08/16/13	23:30	02:53	Matrix Spike Duplicate
ZZZZZZ	2E93521.D	08/17/13	00:00	03:23	(unrelated sample)
JB44675-13	2E93522.D	08/17/13	00:29	03:52	FIELD BLANK 8/9
JB44675-14	2E93523.D	08/17/13	00:58	04:21	TRIP BLANK
JB44675-2	2E93524.D	08/17/13	01:27	04:50	227 SMITH (26-30')
JB44675-1	2E93525.D	08/17/13	01:56	05:19	227 SMITH (11-15')
JB44675-3	2E93526.D	08/17/13	02:25	05:48	227 SMITH (41-45')
JB44675-4	2E93527.D	08/17/13	02:54	06:17	227 SMITH (56-60')
JB44675-5	2E93528.D	08/17/13	03:23	06:46	209 SMITH (11-15')
JB44675-6	2E93529.D	08/17/13	03:52	07:15	209 SMITH (26-30')
JB44675-7	2E93530.D	08/17/13	04:21	07:44	209 SMITH (41-45')
JB44675-8	2E93531.D	08/17/13	04:50	08:13	209 SMITH (56-60')
JB44675-9	2E93532.D	08/17/13	05:19	08:42	189 SMITH (11-15')
JB44675-10	2E93533.D	08/17/13	05:48	09:11	189 SMITH (26-30')
JB44675-11	2E93534.D	08/17/13	06:17	09:40	189 SMITH (41-45')
JB44675-12	2E93535.D	08/17/13	06:47	10:10	189 SMITH (56-60')
JB44675-15	2E93536.D	08/17/13	07:16	10:39	MW-XX

Volatile Internal Standard Area Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Check Std:	V2E4207-CC4202	**Injection Date:**	08/16/13
Lab File ID:	2E93515.D	**Injection Time:**	21:06
Instrument ID:	GCMS2E	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	199231	6.94	211320	9.13	331170	10.05	275833	13.23	149212	15.55
Upper Limit [a]	398462	7.44	422640	9.63	662340	10.55	551666	13.73	298424	16.05
Lower Limit [b]	99616	6.44	105660	8.63	165585	9.55	137917	12.73	74606	15.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E4207-MB	198027	6.93	207831	9.14	317376	10.05	257741	13.23	146475	15.55
V2E4207-BS	202917	6.94	209983	9.13	330635	10.05	272726	13.23	148044	15.55
JB44675-2MS	202409	6.94	212230	9.13	337036	10.05	274441	13.23	148162	15.55
JB44675-2MSD	214771	6.94	218514	9.14	343556	10.05	281721	13.23	151031	15.55
ZZZZZZ	211209	6.94	215343	9.14	326308	10.05	264593	13.23	145859	15.55
JB44675-13	210709	6.94	215008	9.14	325497	10.05	260649	13.23	144695	15.55
JB44675-14	208046	6.94	212671	9.14	325462	10.05	258502	13.23	145664	15.55
JB44675-2	206898	6.94	208815	9.14	319767	10.05	257018	13.23	145624	15.55
JB44675-1	199622	6.93	209489	9.14	313798	10.05	257726	13.23	143262	15.55
JB44675-3	200163	6.93	204476	9.13	311266	10.05	250731	13.23	137367	15.55
JB44675-4	198940	6.93	203111	9.13	310215	10.05	250260	13.23	140961	15.55
JB44675-5	199740	6.94	203143	9.14	311371	10.05	250605	13.23	140132	15.55
JB44675-6	197380	6.94	203121	9.14	307601	10.05	250462	13.23	139843	15.55
JB44675-7	190301	6.93	196322	9.13	300245	10.05	247492	13.23	137073	15.55
JB44675-8	191851	6.94	198094	9.14	302847	10.05	243064	13.23	137542	15.55
JB44675-9	192961	6.94	200376	9.14	309654	10.05	245808	13.23	138488	15.55
JB44675-10	192158	6.93	196657	9.14	296786	10.05	244488	13.23	136697	15.55
JB44675-11	187430	6.93	191868	9.14	299828	10.05	241277	13.23	132136	15.55
JB44675-12	188092	6.93	198785	9.13	302384	10.05	245201	13.23	135658	15.55
JB44675-15	187140	6.93	190927	9.14	297688	10.05	239139	13.23	133531	15.55

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB44675-1	2E93525.D	97.0	97.0	98.0	93.0
JB44675-2	2E93524.D	98.0	96.0	98.0	93.0
JB44675-3	2E93526.D	97.0	95.0	97.0	94.0
JB44675-4	2E93527.D	97.0	96.0	97.0	93.0
JB44675-5	2E93528.D	98.0	96.0	97.0	93.0
JB44675-6	2E93529.D	97.0	97.0	98.0	93.0
JB44675-7	2E93530.D	98.0	98.0	98.0	93.0
JB44675-8	2E93531.D	99.0	99.0	97.0	92.0
JB44675-9	2E93532.D	99.0	98.0	97.0	92.0
JB44675-10	2E93533.D	100.0	98.0	99.0	91.0
JB44675-11	2E93534.D	100.0	100.0	97.0	94.0
JB44675-12	2E93535.D	98.0	99.0	98.0	92.0
JB44675-13	2E93522.D	98.0	96.0	97.0	93.0
JB44675-14	2E93523.D	98.0	95.0	96.0	93.0
JB44675-15	2E93536.D	100.0	99.0	97.0	93.0
JB44675-2MS	2E93519.D	99.0	99.0	100.0	95.0
JB44675-2MSD	2E93520.D	98.0	98.0	99.0	95.0
V2E4207-BS	2E93518.D	99.0	99.0	100.0	95.0
V2E4207-MB	2E93517.D	98.0	96.0	98.0	90.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-117%
S2 = 1,2-Dichloroethane-D4	72-123%
S3 = Toluene-D8	82-118%
S4 = 4-Bromofluorobenzene	75-118%

Initial Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICC4202
Lab FileID: 2E93433.D

Response Factor Report ms2e

Method : C:\MSDCHEM\1\METHODS\M2E4202.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update : Wed Sep 18 09:15:37 2013
Response via : Initial Calibration

Calibration Files
5 =2E93430.D 2 =2E93429.D 0.5 =2E93438.D 50 =2E93433.D
100 =2E93434.D 1 =2E93428.D 200 =2E93435.D 20 =2E93432.D
10 =2E93431.D 75 =2E93439.D = =

Compound	5	2	0.5	50	100	1	200	20	10	75	Avg	%RSD
1) I Tert Butyl Alcohol-d9	----------ISTD----------											
2) 1,4-dioxane	0.099	0.075	0.099	0.102		0.097	0.099	0.098	0.094		0.095	8.75
3) tertiary butyl alcohol	1.239	1.289	1.101	1.136	1.350	1.053	1.135	1.144	1.083		1.170	8.58
4) ethanol	0.058	0.057	0.044	0.048	0.089	0.046	0.050	0.057	0.049		0.055	24.43
----- Linear regression ----- Coefficient = 0.9980												
Response Ratio = 0.00835 + 0.04666 *A												
5) acetonitrile	0.631	0.570	0.615	0.647	0.729	0.598	0.604	0.572	0.630		0.622	7.67
6) iso-butyl alcohol	0.270	0.338	0.286	0.306		0.294	0.263	0.268	0.293		0.290	8.44
7) I pentafluorobenzene	----------ISTD----------											
8) freon 143a											0.000#	-1.00
9) freon 142b											0.000#	-1.00
10) freon 141b											0.000#	-1.00
11) Propylene	0.602	0.626	0.645	0.923	0.887	0.674	0.857	0.831	0.821		0.763	16.36
----- Linear regression ----- Coefficient = 0.9993												
Response Ratio = 0.00022 + 0.86536 *A												
12) chlorodifluoromethane	0.708	0.632	0.598	0.608	0.681	0.584	0.628	0.630	0.629		0.633	6.19
13) dichlorodifluoromethane	0.933	0.997	0.774	0.771	0.927	0.736	0.830	0.823	0.771		0.840	10.82
14) chloromethane	0.930	1.011	0.908	0.815	0.881	1.122	0.845	0.850	0.869	0.938	0.917	9.97
15) vinyl chloride	1.030	1.121	0.832	0.883	0.948	1.104	0.926	0.949	0.922	0.994	0.971	9.51
16) bromomethane	0.503	0.535	0.366		0.534		0.425	0.442	0.376		0.454	15.60
----- Linear regression ----- Coefficient = 0.9952												
Response Ratio = 0.00573 + 0.37741 *A												
17) chloroethane	0.487	0.544	0.364		0.555		0.414	0.426	0.394		0.455	16.42
----- Linear regression ----- Coefficient = 0.9967												
Response Ratio = 0.00530 + 0.38360 *A												

Initial Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICC4202
Lab FileID: 2E93433.D

18) trichlorofluoromethane
0.948 1.010 0.788 0.807 1.006 0.730 0.846 0.844 0.832 0.868 11.30
19) Pentane
0.000# -1.00
20) ethyl ether
0.388 0.404 0.337 0.345 0.439 0.313 0.351 0.369 0.339 0.365 10.73
21) 2-chloropropane
1.066 1.064 0.936 0.968 1.169 0.929 0.988 1.034 1.012 1.018 7.42
22) acrolein
0.168 0.185 0.174 0.153 0.149 0.190 0.149 0.152 0.160 0.154 0.163 9.24
23) 1,1-dichloroethene
0.549 0.510 0.420 0.463 0.491 0.611 0.471 0.489 0.488 0.508 0.500 10.28
24) acetone
0.095 0.074 0.073 0.070 0.074 0.076 0.070 0.076 11.09
25) allyl chloride
0.351 0.326 0.244 0.297 0.310 0.368 0.295 0.298 0.309 0.316 0.311 10.80
26) iodomethane
0.930 0.920 0.668 0.830 0.878 0.940 0.843 0.868 0.878 0.880 0.863 8.97
27) carbon disulfide
1.954 2.025 2.233 1.704 1.812 2.261 1.752 1.779 1.801 1.825 1.915 10.39
28) methylene chloride
0.641 0.651 0.627 0.554 0.580 0.662 0.554 0.567 0.588 0.574 0.600 6.91
29) methyl acetate
0.605 0.539 0.511 0.515 0.635 0.499 0.527 0.539 0.503 0.542 8.75
30) 1-chloropropane
0.266 0.254 0.233 0.242 0.246 0.232 0.245 0.269 0.253 0.249 5.19
31) methyl tert butyl ether
1.960 1.993 1.512 1.753 1.828 2.086 1.719 1.794 1.877 1.751 1.827 8.90
32) trans-1,2-dichloroethene
0.583 0.556 0.464 0.502 0.526 0.617 0.488 0.524 0.535 0.525 0.532 8.36
33) di-isopropyl ether
1.873 1.684 1.295 1.706 1.773 1.782 1.693 1.706 1.676 1.757 1.694 9.02
34) ethyl tert-butyl ether
2.074 1.881 1.324 1.838 1.913 2.122 1.850 1.809 1.827 1.878 1.852 11.50
35) 2-butanone
0.059 0.085 0.090 0.085 0.078 0.074 0.085 0.079 13.31
36) 1,1-dichloroethane
1.042 1.047 0.793 0.926 0.967 1.057 0.903 0.964 0.984 0.968 0.965 8.20
37) chloroprene
0.863 0.735 0.740 0.774 0.802 0.729 0.767 0.736 0.790 0.771 5.61
38) acrylonitrile
0.303 0.285 0.276 0.279 0.344 0.263 0.277 0.285 0.268 0.287 8.53
39) vinyl acetate
0.081 0.109 0.128 0.122 0.106 0.097 0.118 0.109 14.86
40) ethyl acetate
0.080 0.087 0.091 0.089 0.086 0.076 0.089 0.085 6.46
41) 2,2-dichloropropane
0.834 0.870 0.671 0.748 0.771 0.935 0.725 0.785 0.793 0.779 0.791 9.42
42) cis-1,2-dichloroethene
0.624 0.590 0.409 0.562 0.580 0.644 0.544 0.575 0.580 0.574 0.568 11.08
43) propionitrile
0.114 0.101 0.114 0.114 0.117 0.110 0.110 0.115 0.110 0.112 4.34
44) bromochloromethane
0.302 0.296 0.213 0.274 0.285 0.293 0.272 0.276 0.289 0.280 0.278 9.01
45) tetrahydrofuran
0.349 0.246 0.253 0.239 0.246 0.294 0.242 0.267 15.29
----- Linear regression ----- Coefficient = 0.9991
Response Ratio = 0.01012 + 0.23808 *A

Initial Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICC4202
Lab FileID: 2E93433.D

```
46)  chloroform
      0.618 0.649 0.573 0.550 0.574 0.706 0.539 0.579 0.588 0.567  0.594    8.50
47)  t-butyl formate
      0.603 0.564       0.567 0.595 0.538 0.571 0.548 0.543 0.561  0.566    3.90
48)  dibromofluoromethane (s)
      0.483 0.501 0.456 0.451 0.462 0.536 0.445 0.457 0.473 0.458  0.472    5.94
49)  1,2-dichloroethane-d4 (s)
      0.562 0.550 0.577 0.549 0.562 0.660 0.552 0.546 0.567 0.550  0.568    5.98
50)  freon 113
      0.433 0.398       0.371 0.375 0.414 0.355 0.380 0.376 0.395  0.388    6.17
51)  methacrylonitrile
      0.260             0.363 0.386       0.378 0.330 0.332 0.367  0.345   12.51
52)  1,1,1-trichloroethane
      0.809 0.789 0.542 0.714 0.751 0.766 0.711 0.750 0.767 0.755  0.735   10.10
53)  Cyclohexane
      1.012 1.016 0.870 0.880 0.913 1.012 0.862 0.919 0.939 0.934  0.936    6.35
54)  2,2,4-trimethylpentane
      2.528 2.122 1.784 2.189 2.322 2.446 2.194 2.295 2.182 2.477  2.254    9.57
55)  tert-amyl methyl ether
      0.522 0.482       0.422 0.441 0.564 0.426 0.428 0.440 0.430  0.462   10.93

56) I   1,4-difluorobenzene   ----------------ISTD--------------------
57)  Di-isobutylene
                                                                    0.000#  -1.00
58)  epichlorohydrin
      0.044             0.046 0.046       0.047 0.043 0.040 0.045  0.044    5.61
59)  n-butyl alcohol
      0.018 0.013       0.019 0.018       0.018 0.018 0.017 0.018  0.017   10.13
60)  carbon tetrachloride
      0.448 0.472 0.353 0.399 0.410 0.485 0.383 0.421 0.421 0.417  0.421    9.37
61)  1,1-dichloropropene
      0.501 0.495 0.415 0.447 0.462 0.535 0.429 0.472 0.467 0.471  0.469    7.48
62)  hexane
      0.516 0.443       0.431 0.435 0.466 0.396 0.459 0.432 0.467  0.450    7.42
63)  benzene
      1.460 1.419 1.144 1.316 1.375 1.535 1.265 1.393 1.364 1.374  1.364    7.85
64)  heptane
      0.275 0.253       0.235 0.244 0.264 0.229 0.260 0.253 0.262  0.253    5.77
65)  isopropyl acetate
      0.883 0.714       0.720 0.734 0.676 0.701 0.688 0.778 0.705  0.733    8.64
66)  1,2-dichloroethane
      0.451 0.456 0.352 0.441 0.451 0.507 0.427 0.449 0.461 0.445  0.444    8.65
67)  trichloroethene
      0.342 0.360 0.246 0.316 0.332 0.358 0.310 0.333 0.326 0.331  0.325    9.83
68)  2-nitropropane
      0.154             0.143 0.151       0.147 0.149 0.140 0.143  0.147    3.40
69)  2-chloroethyl vinyl ether
      0.238 0.236       0.232 0.242 0.240 0.236 0.231 0.220 0.233  0.234    2.72
70)  methyl methacrylate
      0.095             0.104 0.111       0.108 0.102 0.101 0.104  0.104    4.94
71)  1,2-dichloropropane
      0.379 0.373 0.311 0.358 0.374 0.397 0.352 0.364 0.367 0.364  0.364    6.17
72)  methylcyclohexane
      0.721 0.683       0.603 0.613 0.734 0.571 0.634 0.595 0.640  0.644    8.84
73)  dibromomethane
      0.215 0.205       0.205 0.214 0.247 0.203 0.209 0.209 0.208  0.213    6.33
74)  bromodichloromethane
      0.444 0.437 0.313 0.409 0.438 0.481 0.417 0.416 0.422 0.421  0.420   10.18
75)  cis-1,3-dichloropropene
      0.556 0.558       0.545 0.579 0.623 0.563 0.535 0.525 0.561  0.561    5.06
```

Initial Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICC4202
Lab FileID: 2E93433.D

```
 76)  toluene-d8 (s)
       1.174 1.175 1.174 1.126 1.163 1.329 1.138 1.139 1.135 1.147  1.170    5.03
 77)  4-methyl-2-pentanone
       0.188             0.182 0.183       0.174 0.185 0.187 0.179  0.183    2.65
 78)  toluene
       0.815 0.820 0.567 0.765 0.816 0.834 0.782 0.792 0.774 0.802  0.777    9.89
 79)  3-methyl-1-butanol
       0.016 0.017       0.019 0.018 0.015 0.017 0.018 0.018 0.017  0.017    6.66
 80)  trans-1,3-dichloropropene
       0.456 0.473       0.468 0.503 0.548 0.494 0.466 0.454 0.478  0.482    6.12
 81)  ethyl methacrylate
       0.463 0.386       0.477 0.502 0.427 0.481 0.471 0.468 0.476  0.461    7.50
 82)  1,1,2-trichloroethane
       0.247 0.231       0.235 0.250 0.281 0.241 0.234 0.236 0.237  0.244    6.34
 83)  2-hexanone
       0.148             0.142 0.146       0.144 0.129 0.158 0.140  0.144    6.04

 84) I   chlorobenzene-d5      ----------------ISTD--------------------
 85)  tetrachloroethene
       0.445 0.446 0.294 0.389 0.399 0.445 0.371 0.413 0.408 0.407  0.402   11.31
 86)  1,3-dichloropropane
       0.660 0.628 0.439 0.611 0.624 0.696 0.593 0.613 0.636 0.607  0.611   10.98
 87)  butyl acetate
       0.280             0.298 0.297       0.286 0.287 0.268 0.293  0.287    3.71
 88)  3,3-dimethyl-1-butanol
       0.100 0.108       0.090 0.080       0.072 0.086 0.093 0.081  0.089   13.17
 89)  dibromochloromethane
       0.392 0.378       0.379 0.401 0.462 0.382 0.380 0.386 0.384  0.394    6.76
 90)  1,2-dibromoethane
       0.370 0.357 0.280 0.351 0.361 0.417 0.343 0.355 0.372 0.350  0.356    9.50
 91)  chlorobenzene
       1.112 1.097 0.863 1.020 1.052 1.178 1.004 1.037 1.063 1.045  1.047    7.85
 92)  1,1,1,2-tetrachloroethane
       0.436 0.444       0.406 0.409 0.444 0.380 0.412 0.420 0.406  0.417    5.05
 93)  ethylbenzene
       1.945 1.937 1.497 1.752 1.801 2.042 1.670 1.840 1.835 1.814  1.813    8.43
 94)  m,p-xylene
       0.768 0.748 0.570 0.692 0.707 0.769 0.657 0.727 0.722 0.713  0.707    8.37
 95)  o-xylene
       0.801 0.755 0.508 0.725 0.729 0.827 0.680 0.747 0.746 0.742  0.726   11.94
 96)  styrene
       1.235 1.155       1.130 1.165 1.252 1.101 1.158 1.162 1.158  1.168    4.06
 97)  bromoform
       0.271 0.264       0.276 0.285 0.345 0.276 0.272 0.273 0.268  0.281    8.78

 98) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 99)  isopropylbenzene
       3.636 3.582 2.555 3.421 3.642 3.720 3.261 3.496 3.430 3.626  3.437    9.85
100)  4-bromofluorobenzene (s)
       0.989 1.021       0.903 0.949 1.211 0.913 0.907 0.910 0.932  0.970   10.19
101)  bromobenzene
       0.855 0.789 0.613 0.788 0.833 0.928 0.768 0.794 0.809 0.801  0.798    9.97
102)  cyclohexanone
       0.105 0.064       0.078 0.075       0.066 0.086 0.083 0.089  0.081   16.60
          ----- Quadratic regression -----                Coefficient =  0.9958
               Response Ratio = -0.00534 + 0.09096 *A + -0.00063 *A^2

103)  1,1,2,2-tetrachloroethane
       1.099 1.147       1.025 1.062 1.525 0.963 1.034 1.058 1.005  1.102   15.17
             ----- Linear regression -----  Coefficient =  0.9984
```

Initial Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICC4202
Lab FileID: 2E93433.D

```
               Response Ratio = 0.00997 + 0.99706 *A

104)  trans-1,4-dichloro-2-butene
       0.283 0.309       0.257 0.270 0.370 0.256 0.243 0.272 0.257  0.280   13.95
105)  1,2,3-trichloropropane
       0.305 0.305       0.276 0.286 0.447 0.256 0.277 0.287 0.269  0.301   18.92
             ----- Linear regression -----  Coefficient =  0.9978
               Response Ratio = 0.00328 + 0.26638 *A

106)  n-propylbenzene
       4.122 4.039 3.140 3.771 4.000 4.320 3.596 3.888 3.826 3.992  3.870    8.38
107)  2-chlorotoluene
       0.824 0.840       0.785 0.831 0.852 0.757 0.799 0.794 0.820  0.811    3.68
108)  4-chlorotoluene
       2.482 2.667 2.210 2.313 2.461 2.971 2.266 2.337 2.386 2.389  2.448    9.13
109)  1,3,5-trimethylbenzene
       3.240 3.301 2.916 2.974 3.140 3.604 2.842 3.024 3.052 3.121  3.121    7.05
110)  tert-butylbenzene
       2.508 2.475 2.021 2.519 2.682 2.643 2.455 2.483 2.417 2.690  2.489    7.67
111)  pentachloroethane
       0.536 0.546       0.579 0.613 0.636 0.565 0.564 0.560 0.595  0.577    5.60
112)  1,2,4-trimethylbenzene
       3.157 3.042 2.356 2.919 3.149 3.224 2.878 2.958 2.993 3.089  2.977    8.23
113)  sec-butylbenzene
       4.030 3.950 3.222 3.784 4.039 4.143 3.650 3.847 3.772 4.041  3.848    6.96
114)  1,3-dichlorobenzene
       1.652 1.653 1.492 1.532 1.632 1.935 1.512 1.533 1.559 1.586  1.609    7.99
115)  p-isopropyltoluene
       3.269 3.258 2.503 3.188 3.382 3.417 3.070 3.213 3.187 3.362  3.185    8.21
116)  1,2,3-TRIMETHYLBENZENE
       3.534 3.510 3.258 3.180 3.404 3.623 3.149 3.204 3.157 3.416  3.344    5.25
117)  1,4-dichlorobenzene
       1.760 1.866 1.631 1.599 1.674 2.105 1.532 1.615 1.656 1.630  1.707    9.83
118)  1,2-dichlorobenzene
       1.748 1.746 1.385 1.628 1.706 2.038 1.571 1.644 1.656 1.647  1.677    9.79
119)  n-butylbenzene
       1.815 1.732 1.432 1.667 1.772 1.847 1.620 1.700 1.721 1.774  1.708    6.92
120)  1,2-dibromo-3-chloropropane
       0.249 0.269       0.245 0.245       0.218 0.248 0.254 0.233  0.245    6.10
121)  1,3,5-trichlorobenzene
       1.567 1.523 1.398 1.463 1.517 1.706 1.301 1.482 1.498 1.504  1.496    7.02
122)  1,2,4-trichlorobenzene
       1.450 1.512 1.553 1.438 1.447 1.869 1.180 1.416 1.436 1.441  1.474   11.50
123)  hexachlorobutadiene
       0.700 0.684 0.785 0.661 0.673 0.849 0.537 0.662 0.660 0.695  0.691   11.89
124)  naphthalene
       4.136 4.282       3.998 3.842       3.020 3.984 4.078 3.822  3.895    9.87
125)  1,2,3-trichlorobenzene
       1.459 1.475       1.368 1.285       0.980 1.379 1.393 1.320  1.332   11.69
126)  hexachloroethane
       0.574 0.528       0.597 0.652 0.606 0.594 0.578 0.554 0.638  0.591    6.57
127)  Benzyl chloride
       2.323 2.254 1.790 2.165 2.244 2.433 2.106 2.111 2.088 2.220  2.173    7.91
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2E4202.M         Thu Sep 19 09:22:32 2013   ACCNJ
```

Initial Calibration Verification

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICV4202
Lab FileID: 2E93440.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2E93440.D Vial: 15
Acq On : 14 Aug 2013 4:47 pm Operator: tamikag
Sample : icv4202-50 Inst : ms2e
Misc : MS53100,V2E4202,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E4202.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update : Thu Aug 15 10:17:28 2013
Response via : Multiple Level Calibration

Min. RRF : 0.010 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)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	111	0.00	6.94
2	M	1,4-dioxane	0.095	0.109	-14.7	122	0.00	10.78
3	M	tertiary butyl alcohol	1.170	1.172	-0.2	118	0.00	7.05
			True	Calc.	% Drift			
4		ethanol	5000.000	5009.828	-0.2	120	0.00	5.75
			AvgRF	CCRF	% Dev			
5		acetonitrile	0.622	0.627	-0.8	113	0.00	6.75
6		iso-butyl alcohol	0.290	0.321	-10.7	125	0.00	9.44
7	I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	9.13
8		freon 143a		----------NA----------				
9		freon 142b		----------NA----------				
10		freon 141b		----------NA----------				
11		Propylene		----------NA----------				
12	M	chlorodifluoromethane	0.633	0.444	29.9#	78	0.00	3.81
13	M	dichlorodifluoromethane	0.840	0.754	10.2	103	0.00	3.80
14	M	chloromethane	0.917	0.834	9.1	108	0.00	4.10
15	M	vinyl chloride	0.971	0.917	5.6	109	0.00	4.33
			True	Calc.	% Drift			
16	M	bromomethane	50.000	47.125	5.8	104	0.00	4.90
17	M	chloroethane	50.000	48.026	3.9	108	-0.01	5.06
			AvgRF	CCRF	% Dev			
18	M	trichlorofluoromethane	0.868	0.797	8.2	106	-0.01	5.50
19		Pentane		----------NA----------				
20	M	ethyl ether	0.365	0.329	9.9	103	0.00	5.87
21		2-chloropropane	1.018	0.931	8.5	105	0.00	6.05
22	M	acrolein	0.163	0.157	3.7	108	0.00	6.11
23	M	1,1-dichloroethene	0.500	0.446	10.8	102	0.00	6.27
24	M	acetone	0.076	0.080	-5.3	114	0.00	6.33
25	M	allyl chloride	0.311	0.287	7.7	102	0.00	6.77
26	M	iodomethane	0.863	0.814	5.7	103	0.00	6.53
27	M	carbon disulfide	1.915	1.662	13.2	103	0.00	6.65
28	M	methylene chloride	0.600	0.548	8.7	104	0.00	6.96
29	M	methyl acetate	0.542	0.525	3.1	108	0.00	6.77
30		1-chloropropane	0.249	0.245	1.6	111	0.00	6.99
31	M	methyl tert butyl ether	1.827	1.718	6.0	103	0.00	7.28
32	M	trans-1,2-dichloroethene	0.532	0.487	8.5	102	0.00	7.33
33	M	di-isopropyl ether	1.694	1.743	-2.9	108	0.00	7.87

Initial Calibration Verification

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICV4202
Lab FileID: 2E93440.D

34	M	ethyl tert-butyl ether	1.852	1.801	2.8	103	0.00	8.32
35	M	2-butanone	0.079	0.087	-10.1	108	0.00	8.60
36	M	1,1-dichloroethane	0.965	0.921	4.6	105	0.00	7.88
37	M	chloroprene	0.771	0.687	10.9	98	0.00	7.99
38	M	acrylonitrile	0.287	0.280	2.4	107	0.00	7.28
39	M	vinyl acetate	0.109	0.124	-13.8	119	0.00	7.89
40	M	ethyl acetate	0.085	0.092	-8.2	111	0.00	8.61
41	M	2,2-dichloropropane	0.791	0.678	14.3	95	0.00	8.60
42	M	cis-1,2-dichloroethene	0.568	0.545	4.0	102	0.00	8.62
43	M	propionitrile	0.112	0.115	-2.7	107	0.00	8.68
44	M	bromochloromethane	0.278	0.267	4.0	103	0.00	8.92
		----------	True	Calc.	% Drift	----------		
45	M	tetrahydrofuran	50.000	49.926	0.1	106	0.00	8.96
		----------	AvgRF	CCRF	% Dev	----------		
46	M	chloroform	0.594	0.538	9.4	103	0.00	8.98
47		t-butyl formate	0.566	0.593	-4.8	110	0.00	9.00
48	S	dibromofluoromethane (s)	0.472	0.443	6.1	104	0.00	9.18
49	S	1,2-dichloroethane-d4 (s)	0.568	0.528	7.0	101	0.00	9.60
50	M	freon 113	0.388	0.322	17.0	92	-0.01	6.23
51	M	methacrylonitrile	0.345	0.360	-4.3	105	0.00	8.87
52	M	1,1,1-trichloroethane	0.735	0.705	4.1	104	0.00	9.22
53		Cyclohexane	0.936	0.867	7.4	104	0.00	9.29
54		2,2,4-trimethylpentane	2.254	1.737	22.9#	84	0.00	9.66
55	M	tert-amyl methyl ether	0.462	0.426	7.8	106	0.00	9.70
56	I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	10.05
57	M	Di-isobutylene		----------NA----------				
58	M	epichlorohydrin	0.044	0.052	-18.2	120	0.00	11.33
59	M	n-butyl alcohol	0.017	0.022	-29.4#	124	0.00	10.19
60	M	carbon tetrachloride	0.421	0.384	8.8	102	0.00	9.42
61	M	1,1-dichloropropene	0.469	0.439	6.4	104	0.00	9.41
62	M	hexane	0.450	0.272	39.6#	67	0.00	7.62
63	M	benzene	1.364	1.295	5.1	104	0.00	9.66
64	M	heptane		----------NA----------				
65	M	isopropyl acetate	0.733	0.826	-12.7	121	0.00	9.60
66	M	1,2-dichloroethane	0.444	0.426	4.1	102	0.00	9.68
67	M	trichloroethene	0.325	0.313	3.7	105	0.00	10.39
68	M	2-nitropropane	0.147	0.148	-0.7	109	0.01	11.18
69	M	2-chloroethyl vinyl ether	0.234	0.260	-11.1	119	0.00	11.19
70	M	methyl methacrylate	0.104	0.102	1.9	104	0.00	10.68
71	M	1,2-dichloropropane	0.364	0.351	3.6	104	0.00	10.65
72	M	methylcyclohexane	0.644	0.533	17.2	93	0.00	10.60
73	M	dibromomethane	0.213	0.201	5.6	104	0.00	10.81
74	M	bromodichloromethane	0.420	0.402	4.3	104	0.00	10.95
75	M	cis-1,3-dichloropropene	0.561	0.523	6.8	101	0.00	11.42
76	S	toluene-d8 (s)	1.170	1.103	5.7	104	0.00	11.71
77	M	4-methyl-2-pentanone	0.183	0.187	-2.2	108	0.00	11.52
78	M	toluene	0.777	0.758	2.4	105	0.00	11.78
79	M	3-methyl-1-butanol	0.017	0.022	-29.4#	122	0.00	11.55
80	M	trans-1,3-dichloropropene	0.482	0.454	5.8	103	0.00	11.99
81	M	ethyl methacrylate	0.461	0.471	-2.2	104	0.00	11.99
82	M	1,1,2-trichloroethane	0.244	0.232	4.9	104	0.00	12.20
83	M	2-hexanone	0.144	0.141	2.1	105	0.00	12.39
84	I	chlorobenzene-d5	1.000	1.000	0.0	106	0.00	13.23
85	M	tetrachloroethene	0.402	0.377	6.2	103	0.00	12.37
86	M	1,3-dichloropropane	0.611	0.586	4.1	102	0.00	12.38
87	M	butyl acetate	0.287	0.324	-12.9	116	0.00	12.47

Initial Calibration Verification

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4202-ICV4202
Lab FileID: 2E93440.D

88		3,3-dimethyl-1-butanol	0.089	0.102	-14.6	121	0.00	12.56
89	M	dibromochloromethane	0.394	0.371	5.8	104	0.00	12.65
90	M	1,2-dibromoethane	0.356	0.345	3.1	105	0.00	12.80
91	M	chlorobenzene	1.047	0.989	5.5	103	0.00	13.26
92	M	1,1,1,2-tetrachloroethane	0.417	0.390	6.5	102	0.00	13.32
93	M	ethylbenzene	1.813	1.716	5.4	104	0.00	13.32
94	M	m,p-xylene	0.707	0.678	4.1	104	0.00	13.43
95	M	o-xylene	0.726	0.700	3.6	103	0.00	13.85
96	M	styrene	1.168	1.094	6.3	103	0.00	13.86
97	M	bromoform	0.281	0.263	6.4	101	0.00	14.12
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.55
99	M	isopropylbenzene	3.437	3.372	1.9	103	0.00	14.19
100	S	4-bromofluorobenzene (s)	0.970	0.894	7.8	103	0.00	14.39
101	M	bromobenzene	0.798	0.777	2.6	103	0.00	14.58
		----------	True	Calc.	% Drift	----------		
102	M	cyclohexanone	500.000	362.865	27.4#	83	0.00	14.35
103	M	1,1,2,2-tetrachloroethane	50.000	50.196	-0.4	103	0.00	14.50
		----------	AvgRF	CCRF	% Dev	----------		
104	M	trans-1,4-dichloro-2-bute	0.280	0.255	8.9	104	0.00	14.55
		----------	True	Calc.	% Drift	----------		
105	M	1,2,3-trichloropropane	50.000	50.152	-0.3	102	0.00	14.57
		----------	AvgRF	CCRF	% Dev	----------		
106	M	n-propylbenzene	3.870	3.723	3.8	103	0.00	14.60
107	M	2-chlorotoluene	0.811	0.775	4.4	103	0.00	14.74
108	M	4-chlorotoluene	2.448	2.261	7.6	102	0.00	14.84
109	M	1,3,5-trimethylbenzene	3.121	2.926	6.2	103	0.00	14.75
110	M	tert-butylbenzene	2.489	2.459	1.2	102	0.00	15.09
111	M	pentachloroethane	0.577	0.563	2.4	102	0.00	15.17
112	M	1,2,4-trimethylbenzene	2.977	2.878	3.3	103	0.00	15.14
113	M	sec-butylbenzene	3.848	3.742	2.8	103	0.00	15.31
114	M	1,3-dichlorobenzene	1.609	1.484	7.8	101	0.00	15.49
115	M	p-isopropyltoluene	3.185	3.110	2.4	102	0.00	15.43
116	m	1,2,3-TRIMETHYLBENZENE	3.344	3.169	5.2	104	0.00	15.58
117	M	1,4-dichlorobenzene	1.707	1.555	8.9	102	0.00	15.58
118	M	1,2-dichlorobenzene	1.677	1.562	6.9	100	0.00	15.96
119	M	n-butylbenzene	1.708	1.625	4.9	102	0.00	15.83
120	M	1,2-dibromo-3-chloropropa	0.245	0.240	2.0	102	0.00	16.69
121		1,3,5-trichlorobenzene	1.496	1.415	5.4	101	0.00	16.86
122	M	1,2,4-trichlorobenzene	1.474	1.405	4.7	102	0.00	17.43
123	M	hexachlorobutadiene	0.691	0.644	6.8	102	0.00	17.54
124	M	naphthalene	3.895	3.942	-1.2	103	0.00	17.68
125	M	1,2,3-trichlorobenzene	1.332	1.331	0.1	102	0.00	17.90
126	M	hexachloroethane	0.591	0.590	0.2	103	0.00	16.20
127		Benzyl chloride	2.173	2.099	3.4	101	0.00	15.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0

2E93433.D M2E4202.M Thu Aug 15 10:19:46 2013 MS2E

Continuing Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4207-CC4202
Lab FileID: 2E93515.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2E\V2E4206-09\2E93515.D Vial: 26
Acq On : 16 Aug 2013 9:06 pm Operator: tamikag
Sample : cc4202-50 Inst : ms2e
Misc : MS53156,V2E4207,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E4202.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update : Thu Aug 15 10:17:28 2013
Response via : Multiple Level Calibration

Min. RRF : 0.010 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)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	98	0.00	6.94
2	M	1,4-dioxane	0.095	0.105	-10.5	105	0.00	10.77
3	M	tertiary butyl alcohol	1.170	1.165	0.4	104	-0.01	7.05
			True	Calc.	% Drift			
4		ethanol	5000.000	4975.345	0.5	105	0.00	5.75
			AvgRF	CCRF	% Dev			
5		acetonitrile	0.622	0.683	-9.8	109	0.00	6.75
6		iso-butyl alcohol	0.290	0.299	-3.1	103	0.00	9.43
7	I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	9.13
8		freon 143a		----------NA----------				
9		freon 142b		----------NA----------				
10		freon 141b		----------NA----------				
11		Propylene		----------NA----------				
12	M	chlorodifluoromethane	0.633	0.617	2.5	110	-0.01	3.81
13	M	dichlorodifluoromethane	0.840	0.637	24.2#	88	-0.01	3.79
14	M	chloromethane	0.917	0.748	18.4	98	0.00	4.10
15	M	vinyl chloride	0.971	0.818	15.8	99	-0.01	4.32
			True	Calc.	% Drift			
16	M	bromomethane	50.000	47.461	5.1	106	0.00	4.90
17	M	chloroethane	50.000	46.128	7.7	106	0.00	5.07
			AvgRF	CCRF	% Dev			
18	M	trichlorofluoromethane	0.868	0.751	13.5	102	0.00	5.50
19		Pentane		----------NA----------				
20	M	ethyl ether	0.365	0.354	3.0	112	0.00	5.87
21		2-chloropropane	1.018	1.034	-1.6	118	0.00	6.05
22	M	acrolein	0.163	0.139	14.7	97	0.00	6.11
23	M	1,1-dichloroethene	0.500	0.481	3.8	111	0.00	6.27
24	M	acetone	0.076	0.076	0.0	110	0.00	6.33
25	M	allyl chloride	0.311	0.303	2.6	109	0.00	6.77
26	M	iodomethane	0.863	0.855	0.9	110	0.00	6.53
27	M	carbon disulfide	1.915	1.809	5.5	113	0.00	6.65
28	M	methylene chloride	0.600	0.581	3.2	112	0.00	6.96
29	M	methyl acetate	0.542	0.518	4.4	108	0.00	6.77
30		1-chloropropane	0.249	0.263	-5.6	120	0.00	6.99
31	M	methyl tert butyl ether	1.827	1.841	-0.8	112	0.00	7.27
32	M	trans-1,2-dichloroethene	0.532	0.537	-0.9	114	0.00	7.33
33	M	di-isopropyl ether	1.694	1.825	-7.7	114	0.00	7.86

Continuing Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4207-CC4202
Lab FileID: 2E93515.D

34	M	ethyl tert-butyl ether	1.852	1.945	-5.0	113	0.00	8.32
35	M	2-butanone	0.079	0.084	-6.3	105	0.00	8.60
36	M	1,1-dichloroethane	0.965	0.984	-2.0	113	0.00	7.88
37	M	chloroprene	0.771	0.815	-5.7	118	0.00	7.99
38	M	acrylonitrile	0.287	0.281	2.1	109	0.00	7.28
39	M	vinyl acetate	0.109	0.123	-12.8	120	0.00	7.89
40	M	ethyl acetate	0.085	0.090	-5.9	111	-0.01	8.60
41	M	2,2-dichloropropane	0.791	0.688	13.0	98	0.00	8.60
42	M	cis-1,2-dichloroethene	0.568	0.591	-4.0	112	0.00	8.61
43	M	propionitrile	0.112	0.115	-2.7	108	0.00	8.67
44	M	bromochloromethane	0.278	0.288	-3.6	112	0.00	8.91
		----------	True	Calc.	% Drift	----------		
45	M	tetrahydrofuran	50.000	50.534	-1.1	109	0.00	8.96
		----------	AvgRF	CCRF	% Dev	----------		
46	M	chloroform	0.594	0.589	0.8	115	0.00	8.98
47		t-butyl formate	0.566	0.608	-7.4	114	0.00	9.00
48	S	dibromofluoromethane (s)	0.472	0.464	1.7	110	0.00	9.18
49	S	1,2-dichloroethane-d4 (s)	0.568	0.545	4.0	106	0.00	9.59
50	M	freon 113	0.388	0.403	-3.9	116	-0.02	6.23
51	M	methacrylonitrile	0.345	0.364	-5.5	107	0.00	8.87
52	M	1,1,1-trichloroethane	0.735	0.801	-9.0	120	0.00	9.22
53		Cyclohexane	0.936	0.945	-1.0	115	0.00	9.29
54		2,2,4-trimethylpentane	2.254	2.309	-2.4	113	0.00	9.66
55	M	tert-amyl methyl ether	0.462	0.446	3.5	113	0.00	9.70
56	I	1,4-difluorobenzene	1.000	1.000	0.0	108	0.00	10.05
57	M	Di-isobutylene		----------NA----------				
58	M	epichlorohydrin	0.044	0.045	-2.3	107	0.00	11.33
59	M	n-butyl alcohol	0.017	0.018	-5.9	106	0.00	10.19
60	M	carbon tetrachloride	0.421	0.443	-5.2	120	0.00	9.42
61	M	1,1-dichloropropene	0.469	0.479	-2.1	116	0.00	9.40
62	M	hexane	0.450	0.429	4.7	108	0.00	7.62
63	M	benzene	1.364	1.409	-3.3	116	0.00	9.66
64	M	heptane	0.253	0.239	5.5	110	0.00	9.84
65	M	isopropyl acetate	0.733	0.735	-0.3	110	0.00	9.60
66	M	1,2-dichloroethane	0.444	0.455	-2.5	111	0.00	9.68
67	M	trichloroethene	0.325	0.340	-4.6	116	0.00	10.39
68	M	2-nitropropane	0.147	0.151	-2.7	114	0.00	11.17
69	M	2-chloroethyl vinyl ether	0.234	0.249	-6.4	116	0.00	11.19
70	M	methyl methacrylate	0.104	0.104	0.0	108	0.00	10.67
71	M	1,2-dichloropropane	0.364	0.372	-2.2	112	0.00	10.65
72	M	methylcyclohexane	0.644	0.652	-1.2	117	0.00	10.59
73	M	dibromomethane	0.213	0.212	0.5	112	0.00	10.81
74	M	bromodichloromethane	0.420	0.445	-6.0	117	0.00	10.95
75	M	cis-1,3-dichloropropene	0.561	0.551	1.8	109	0.00	11.41
76	S	toluene-d8 (s)	1.170	1.182	-1.0	113	0.00	11.70
77	M	4-methyl-2-pentanone	0.183	0.186	-1.6	110	0.00	11.51
78	M	toluene	0.777	0.825	-6.2	117	0.00	11.78
79	M	3-methyl-1-butanol	0.017	0.018	-5.9	102	0.00	11.55
80	M	trans-1,3-dichloropropene	0.482	0.482	0.0	111	0.00	11.99
81	M	ethyl methacrylate	0.461	0.494	-7.2	112	0.00	11.99
82	M	1,1,2-trichloroethane	0.244	0.252	-3.3	115	0.00	12.20
83	M	2-hexanone	0.144	0.144	0.0	109	0.00	12.38
84	I	chlorobenzene-d5	1.000	1.000	0.0	112	0.00	13.23
85	M	tetrachloroethene	0.402	0.414	-3.0	119	0.00	12.37
86	M	1,3-dichloropropane	0.611	0.628	-2.8	115	0.00	12.38
87	M	butyl acetate	0.287	0.306	-6.6	115	0.00	12.46

Continuing Calibration Summary

Job Number: JB44675
Account: CARICH C. A. Rich Consultants
Project: Elks Plaza, Freeport, NY

Sample: V2E4207-CC4202
Lab FileID: 2E93515.D

88		3,3-dimethyl-1-butanol	0.089	0.079	11.2	99	0.00	12.56
89	M	dibromochloromethane	0.394	0.399	-1.3	118	0.00	12.65
90	M	1,2-dibromoethane	0.356	0.358	-0.6	114	0.00	12.79
91	M	chlorobenzene	1.047	1.044	0.3	114	0.00	13.26
92	M	1,1,1,2-tetrachloroethane	0.417	0.420	-0.7	116	0.00	13.32
93	M	ethylbenzene	1.813	1.843	-1.7	118	0.00	13.32
94	M	m,p-xylene	0.707	0.722	-2.1	117	0.00	13.43
95	M	o-xylene	0.726	0.744	-2.5	115	0.00	13.84
96	M	styrene	1.168	1.156	1.0	114	0.00	13.86
97	M	bromoform	0.281	0.282	-0.4	114	0.00	14.12
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	15.55
99	M	isopropylbenzene	3.437	3.646	-6.1	117	0.00	14.18
100	S	4-bromofluorobenzene (s)	0.970	0.903	6.9	110	0.00	14.39
101	M	bromobenzene	0.798	0.821	-2.9	114	0.00	14.58
		----------	True	Calc.	% Drift	----------		
102	M	cyclohexanone	500.000	287.927	42.4#	70	0.00	14.35
103	M	1,1,2,2-tetrachloroethane	50.000	52.634	-5.3	114	0.00	14.50
		----------	AvgRF	CCRF	% Dev	----------		
104	M	trans-1,4-dichloro-2-bute	0.280	0.226	19.3	97	0.00	14.54
		----------	True	Calc.	% Drift	----------		
105	M	1,2,3-trichloropropane	50.000	52.993	-6.0	114	0.00	14.57
		----------	AvgRF	CCRF	% Dev	----------		
106	M	n-propylbenzene	3.870	4.043	-4.5	118	0.00	14.59
107	M	2-chlorotoluene	0.811	0.825	-1.7	115	0.00	14.74
108	M	4-chlorotoluene	2.448	2.384	2.6	113	0.00	14.84
109	M	1,3,5-trimethylbenzene	3.121	3.113	0.3	115	0.00	14.75
110	M	tert-butylbenzene	2.489	2.661	-6.9	116	0.00	15.09
111	M	pentachloroethane	0.577	0.580	-0.5	110	0.00	15.17
112	M	1,2,4-trimethylbenzene	2.977	3.041	-2.1	114	0.00	15.14
113	M	sec-butylbenzene	3.848	4.020	-4.5	117	0.00	15.31
114	M	1,3-dichlorobenzene	1.609	1.590	1.2	114	0.00	15.49
115	M	p-isopropyltoluene	3.185	3.321	-4.3	114	0.00	15.43
116	m	1,2,3-TRIMETHYLBENZENE		----------NA----------				
117	M	1,4-dichlorobenzene	1.707	1.662	2.6	114	0.00	15.57
118	M	1,2-dichlorobenzene	1.677	1.680	-0.2	113	0.00	15.96
119	M	n-butylbenzene	1.708	1.684	1.4	111	0.00	15.83
120	M	1,2-dibromo-3-chloropropa	0.245	0.249	-1.6	112	0.00	16.69
121		1,3,5-trichlorobenzene	1.496	1.501	-0.3	113	0.00	16.87
122	M	1,2,4-trichlorobenzene	1.474	1.465	0.6	112	0.00	17.43
123	M	hexachlorobutadiene	0.691	0.667	3.5	111	0.00	17.54
124	M	naphthalene	3.895	4.082	-4.8	112	0.00	17.68
125	M	1,2,3-trichlorobenzene	1.332	1.413	-6.1	113	0.00	17.90
126	M	hexachloroethane	0.591	0.650	-10.0	120	0.00	16.20
127		Benzyl chloride	2.173	1.697	21.9#	86	0.00	15.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0

2E93433.D M2E4202.M Mon Aug 19 16:04:30 2013 ACCNJ

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93525.D
Acq On : 17 Aug 2013 1:56 am
Operator : tamikag
Sample : jb44675-1
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Aug 19 16:08:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

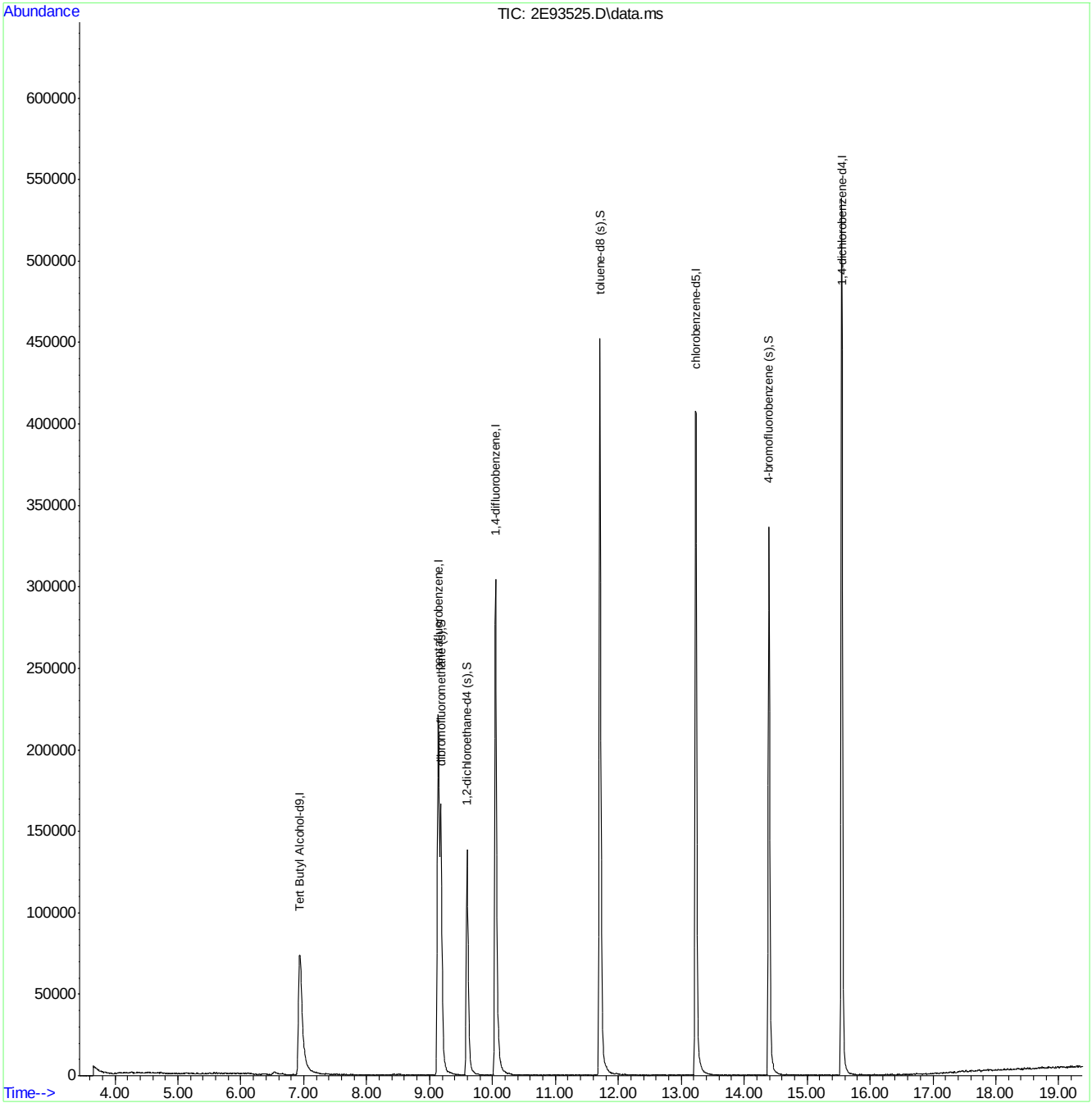
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	199622	500.00	ug/L	-0.01
7) pentafluorobenzene	9.139	168	209489	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	313798	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	257726	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	143262	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	96150	48.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 97.22%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	115068	48.39	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 96.78%			
76) toluene-d8 (s)	11.708	98	358980	48.89	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.78%			
100) 4-bromofluorobenzene (s)	14.393	95	129235	46.48	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.96%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93525.D
Acq On : 17 Aug 2013 1:56 am
Operator : tamikag
Sample : jb44675-1
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Aug 19 16:08:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93524.D
Acq On : 17 Aug 2013 1:27 am
Operator : tamikag
Sample : jb44675-2
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Aug 19 16:07:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

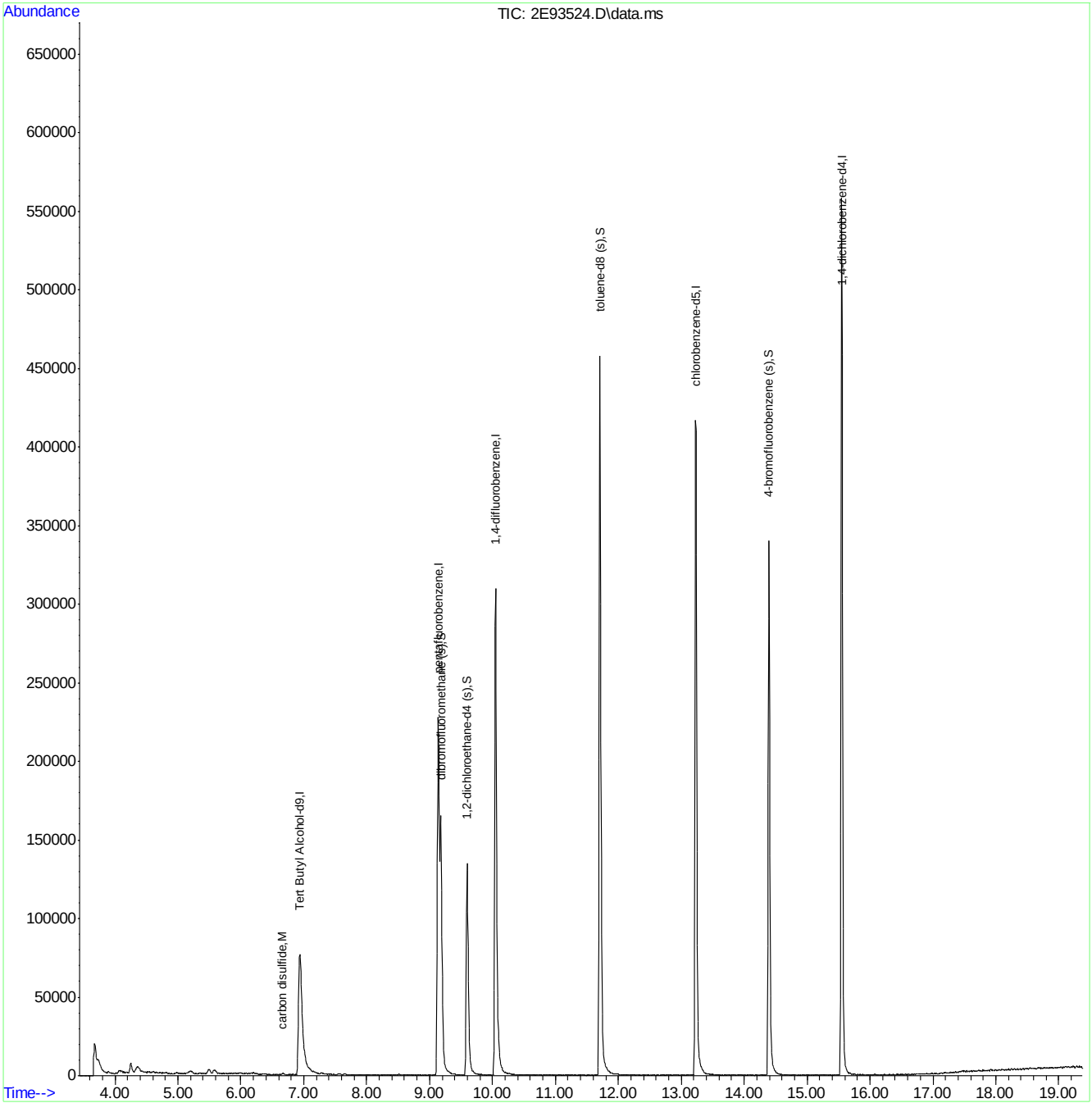
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	206898	500.00	ug/L	0.00
7) pentafluorobenzene	9.139	168	208815	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	319767	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	257018	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	145624	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	96138	48.76	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 97.52%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	113455	47.87	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 95.74%			
76) toluene-d8 (s)	11.709	98	366209	48.94	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.88%			
100) 4-bromofluorobenzene (s)	14.393	95	131013	46.35	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.70%			
Target Compounds						Qvalue
27) carbon disulfide	6.659	76	1830	0.23	ug/L	88

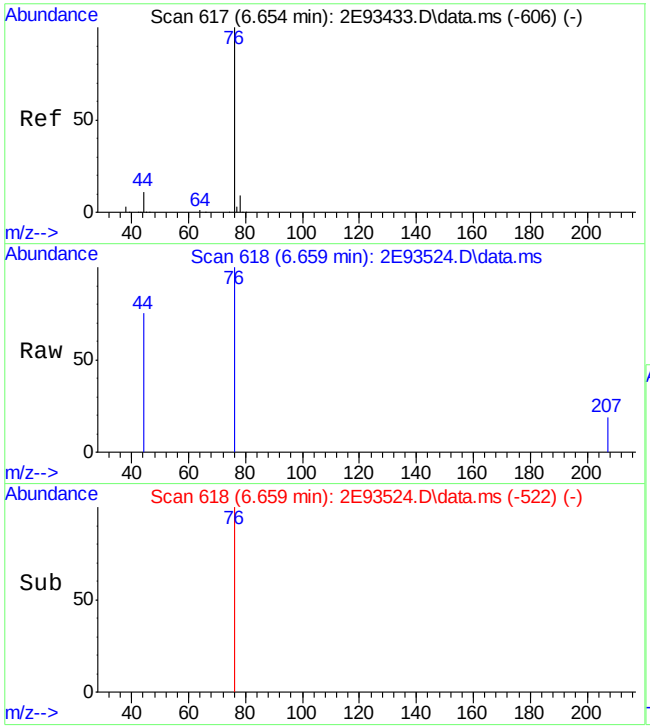
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93524.D
Acq On : 17 Aug 2013 1:27 am
Operator : tamikag
Sample : jb44675-2
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Aug 19 16:07:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

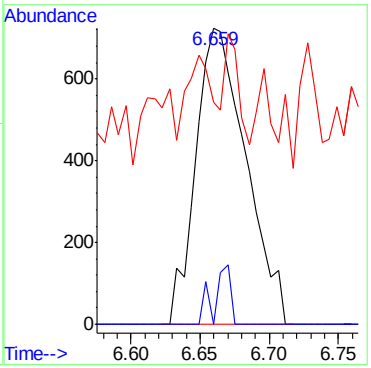




#27
carbon disulfide
Concen: 0.23 ug/L
RT: 6.659 min Scan# 618
Delta R.T. 0.005 min
Lab File: 2E93524.D
Acq: 17 Aug 2013 1:27 am

Tgt Ion: 76 Resp: 1830

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	38.6
44	12.1	0.0	41.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93526.D
Acq On : 17 Aug 2013 2:25 am
Operator : tamikag
Sample : jb44675-3
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 19 16:08:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

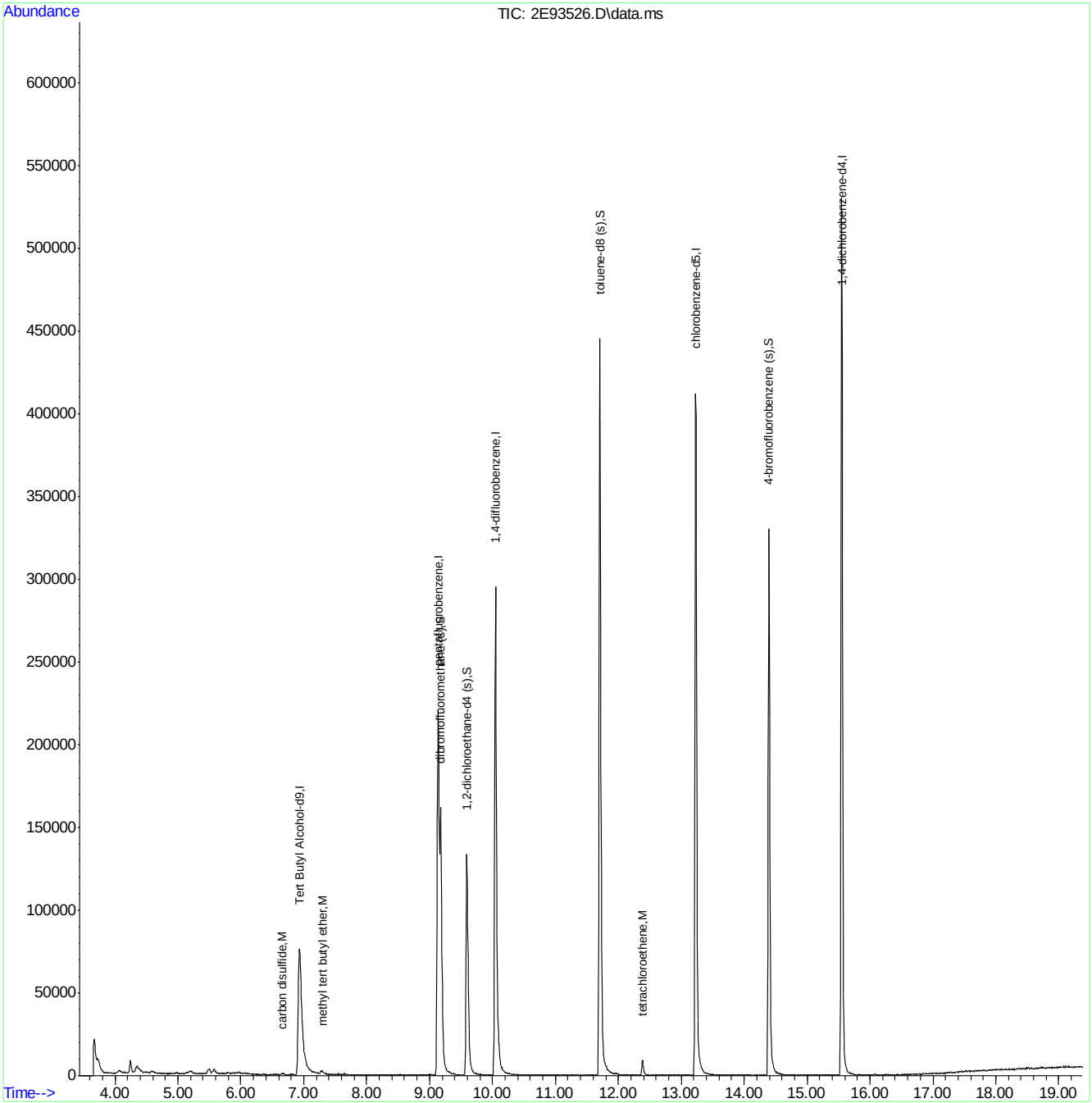
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	200163	500.00	ug/L	-0.01
7) pentafluorobenzene	9.134	168	204476	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	311266	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	250731	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.551	152	137367	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	93670	48.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 97.02%			
49) 1,2-dichloroethane-d4 (s)	9.590	65	110665	47.68	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 95.36%			
76) toluene-d8 (s)	11.708	98	353243	48.50	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.00%			
100) 4-bromofluorobenzene (s)	14.393	95	125214	46.96	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 93.92%			
Target Compounds						Qvalue
27) carbon disulfide	6.664	76	1902	0.24	ug/L	75
31) methyl tert butyl ether	7.294	73	2695	0.36	ug/L	87
85) tetrachloroethene	12.385	166	3309	1.64	ug/L	91

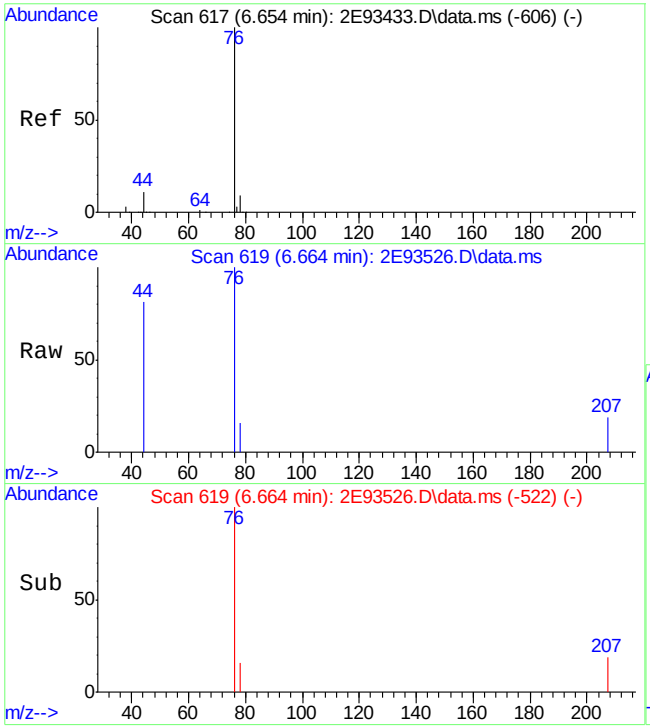
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93526.D
Acq On : 17 Aug 2013 2:25 am
Operator : tamikag
Sample : jb44675-3
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 19 16:08:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

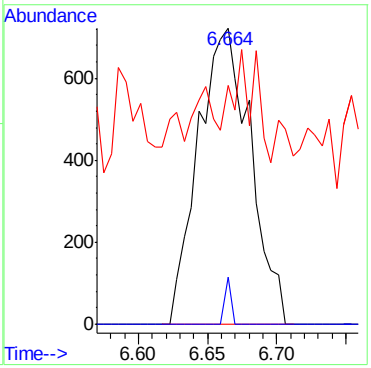


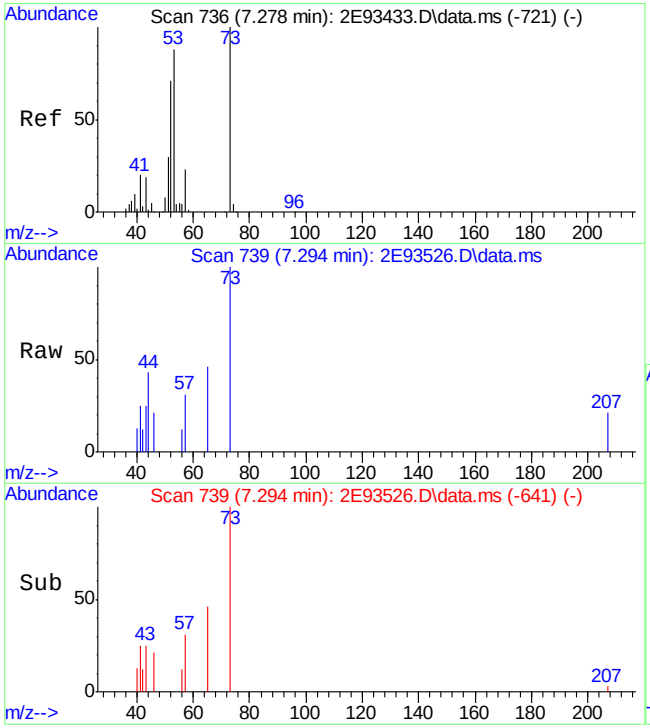


#27
carbon disulfide
Concen: 0.24 ug/L
RT: 6.664 min Scan# 619
Delta R.T. 0.010 min
Lab File: 2E93526.D
Acq: 17 Aug 2013 2:25 am

Tgt Ion: 76 Resp: 1902

Ion	Ratio	Lower	Upper
76	100		
78	15.8	0.0	38.6
44	22.4	0.0	41.2

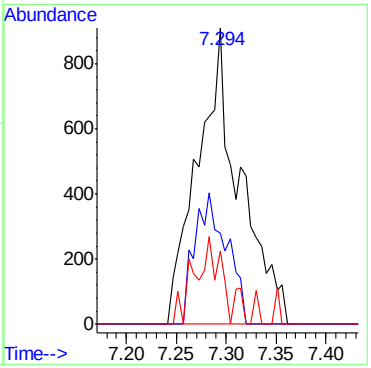


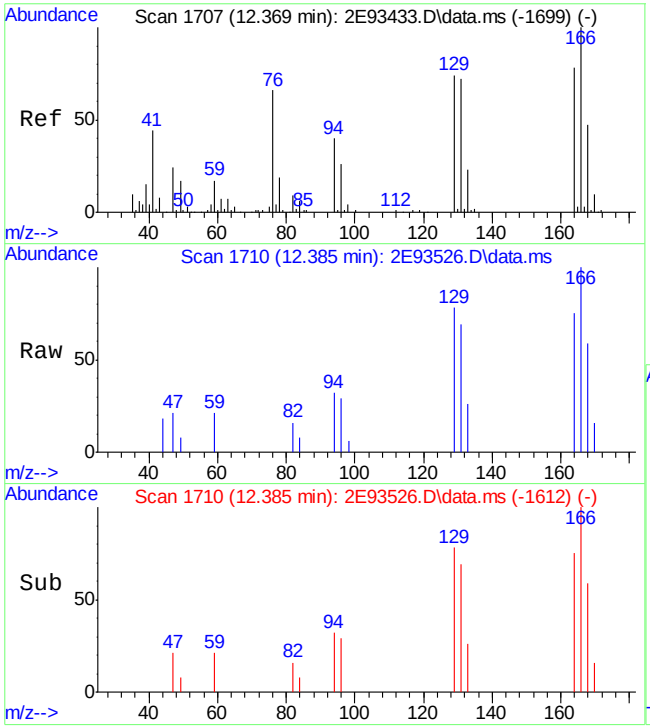


#31
methyl tert butyl ether
Concen: 0.36 ug/L
RT: 7.294 min Scan# 739
Delta R.T. 0.016 min
Lab File: 2E93526.D
Acq: 17 Aug 2013 2:25 am

Tgt Ion: 73 Resp: 2695

Ion	Ratio	Lower	Upper
73	100		
57	30.8	0.0	53.2
43	24.8	0.0	49.8

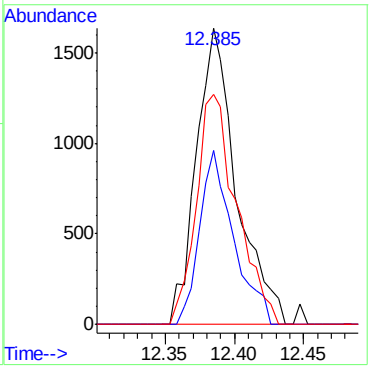




#85
tetrachloroethene
Concen: 1.64 ug/L
RT: 12.385 min Scan# 1710
Delta R.T. 0.016 min
Lab File: 2E93526.D
Acq: 17 Aug 2013 2:25 am

Tgt Ion:166 Resp: 3309

Ion	Ratio	Lower	Upper
166	100		
168	58.6	17.1	77.1
129	77.5	44.4	104.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93527.D
Acq On : 17 Aug 2013 2:54 am
Operator : tamikag
Sample : jb44675-4
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 19 16:09:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

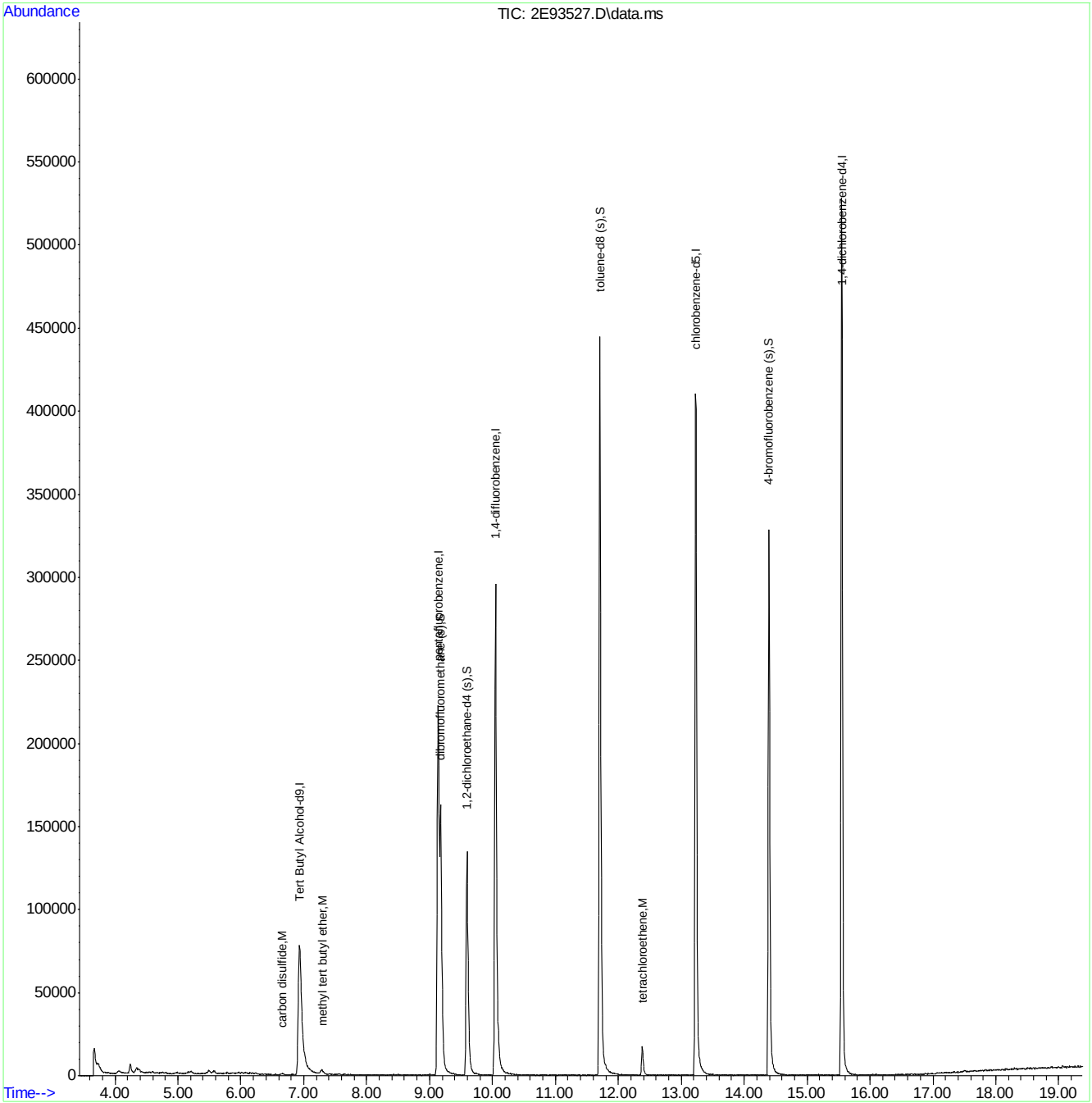
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	198940	500.00	ug/L	-0.01
7) pentafluorobenzene	9.134	168	203111	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	310215	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	250260	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	140961	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	92914	48.44	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 96.88%			
49) 1,2-dichloroethane-d4 (s)	9.590	65	110536	47.95	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 95.90%			
76) toluene-d8 (s)	11.708	98	353332	48.67	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.34%			
100) 4-bromofluorobenzene (s)	14.393	95	126904	46.39	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.78%			
Target Compounds						Qvalue
27) carbon disulfide	6.659	76	1683	0.22	ug/L	68
31) methyl tert butyl ether	7.299	73	3405	0.46	ug/L	91
85) tetrachloroethene	12.385	166	6227	3.10	ug/L	90

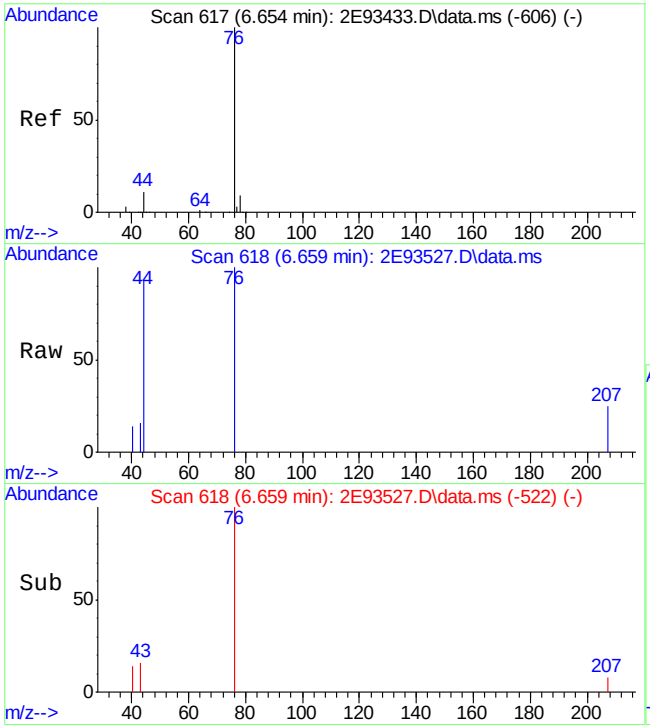
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93527.D
Acq On : 17 Aug 2013 2:54 am
Operator : tamikag
Sample : jb44675-4
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 19 16:09:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

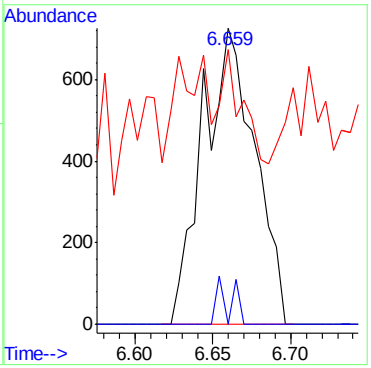


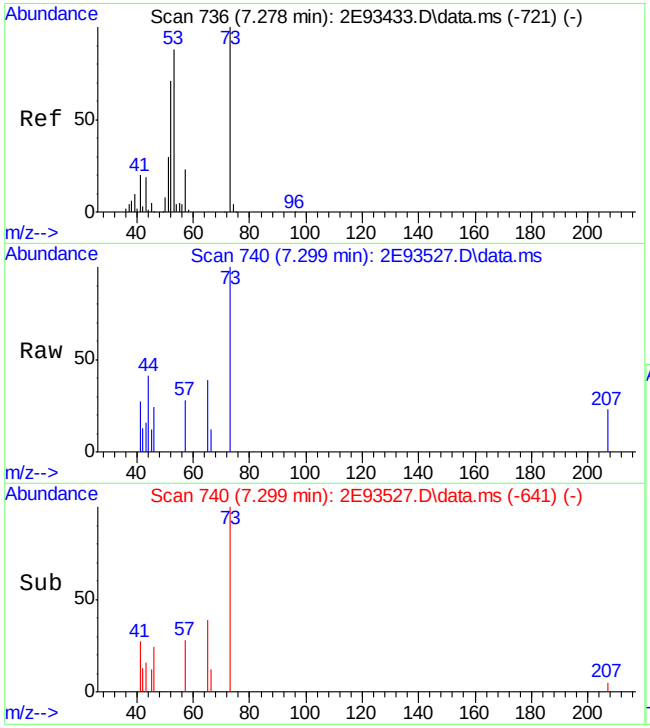


#27
carbon disulfide
Concen: 0.22 ug/L
RT: 6.659 min Scan# 618
Delta R.T. 0.005 min
Lab File: 2E93527.D
Acq: 17 Aug 2013 2:54 am

Tgt Ion: 76 Resp: 1683

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	38.6
44	25.7	0.0	41.2

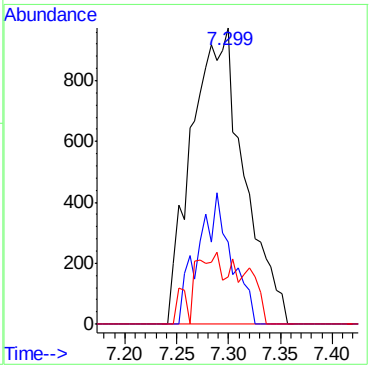


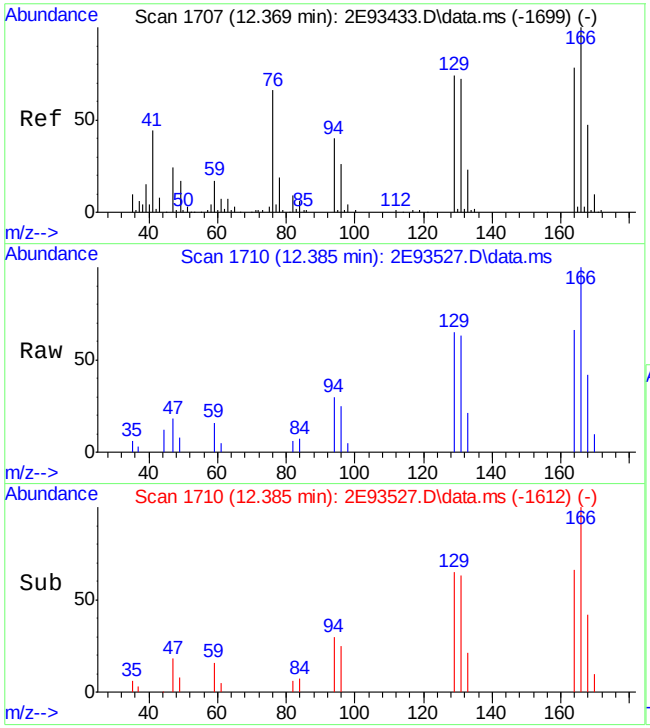


#31
methyl tert butyl ether
Concen: 0.46 ug/L
RT: 7.299 min Scan# 740
Delta R.T. 0.021 min
Lab File: 2E93527.D
Acq: 17 Aug 2013 2:54 am

Tgt Ion: 73 Resp: 3405

Ion	Ratio	Lower	Upper
73	100		
57	27.9	0.0	53.2
43	16.0	0.0	49.8

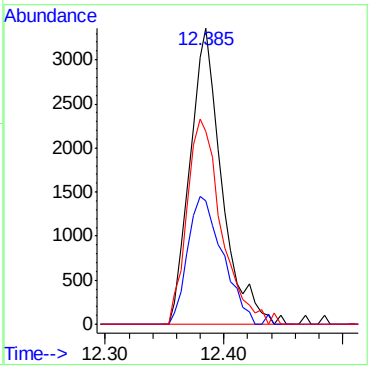




#85
tetrachloroethene
Concen: 3.10 ug/L
RT: 12.385 min Scan# 1710
Delta R.T. 0.016 min
Lab File: 2E93527.D
Acq: 17 Aug 2013 2:54 am

Tgt Ion:166 Resp: 6227

Ion	Ratio	Lower	Upper
166	100		
168	41.5	17.1	77.1
129	65.0	44.4	104.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93528.D
Acq On : 17 Aug 2013 3:23 am
Operator : tamikag
Sample : jb44675-5
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Aug 19 16:09:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

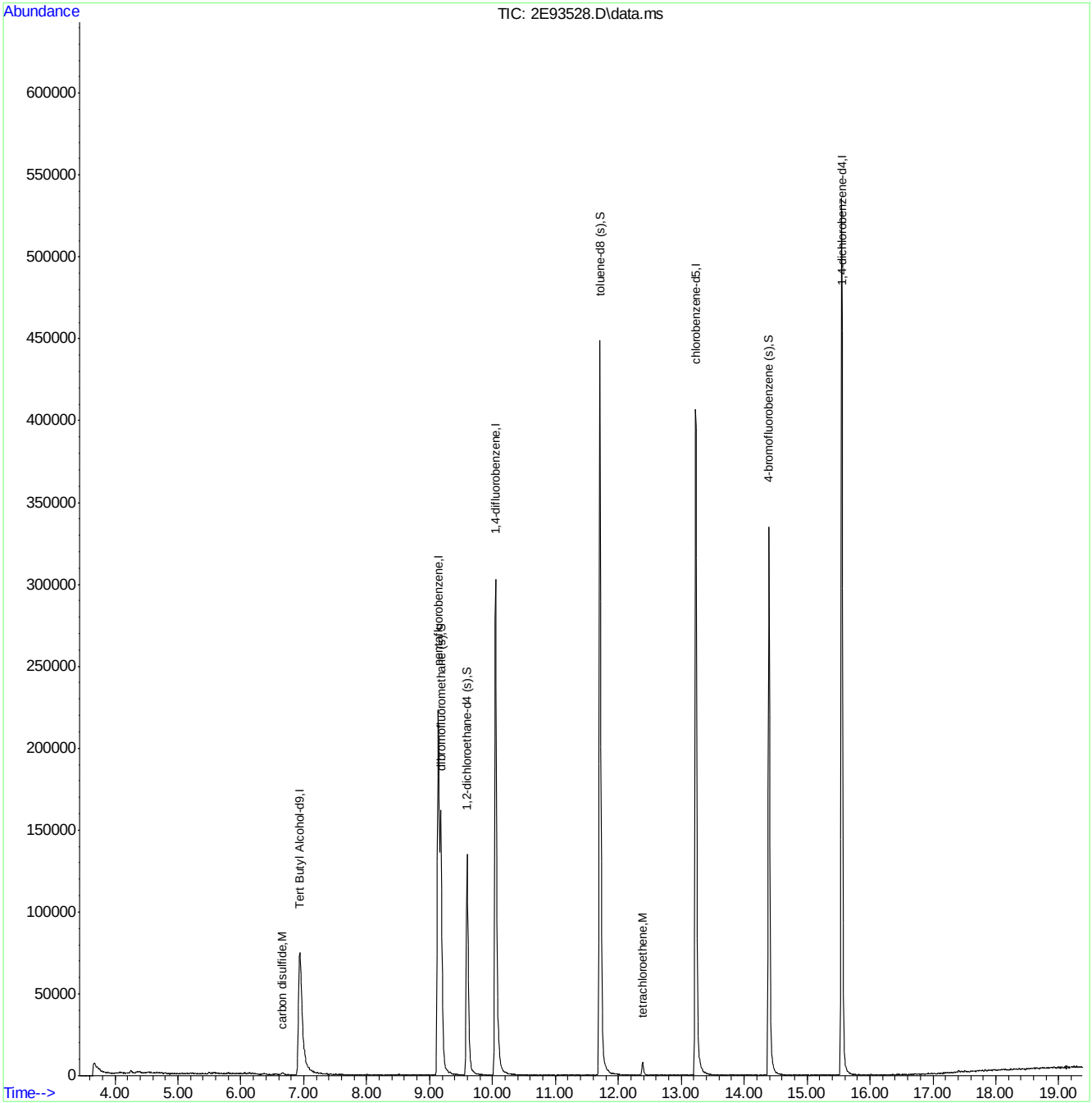
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	199740	500.00	ug/L	0.00
7) pentafluorobenzene	9.139	168	203143	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	311371	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	250605	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	140132	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	94339	49.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.36%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	110761	48.04	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 96.08%			
76) toluene-d8 (s)	11.709	98	354128	48.60	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.20%			
100) 4-bromofluorobenzene (s)	14.393	95	126973	46.68	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 93.36%			
Target Compounds						Qvalue
27) carbon disulfide	6.659	76	2124	0.27	ug/L	78
85) tetrachloroethene	12.390	166	3054	1.52	ug/L	84

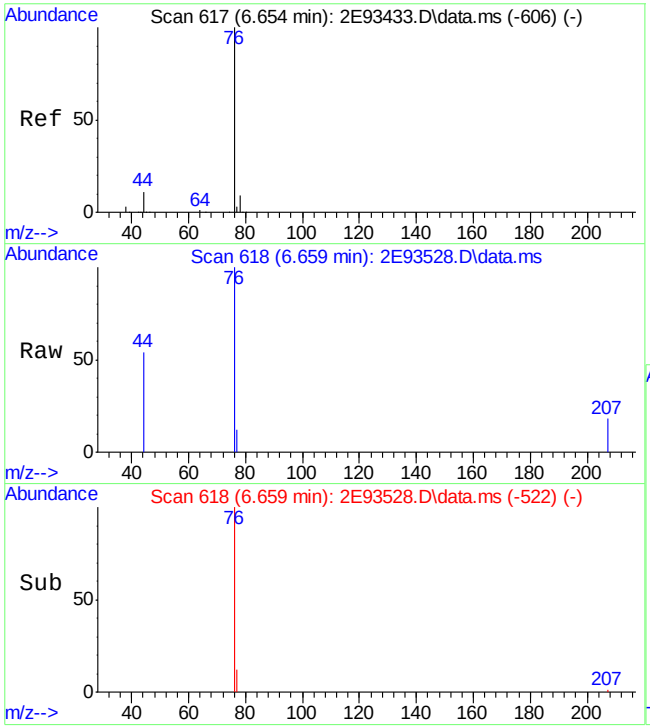
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93528.D
Acq On : 17 Aug 2013 3:23 am
Operator : tamikag
Sample : jb44675-5
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Aug 19 16:09:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

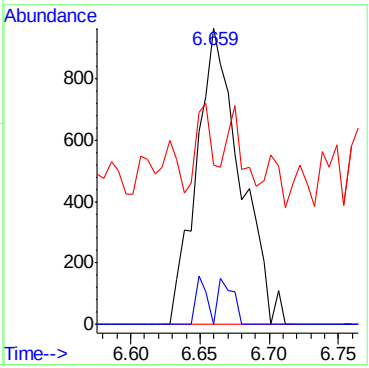


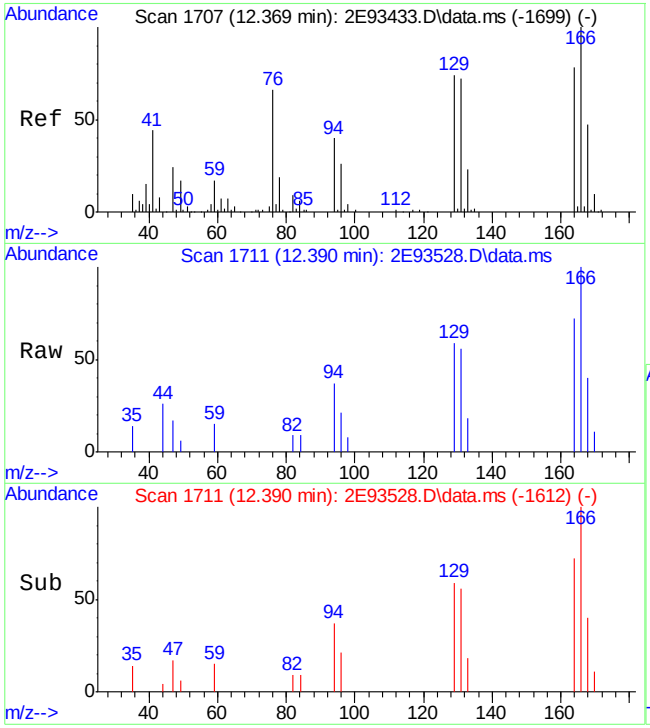


#27
carbon disulfide
Concen: 0.27 ug/L
RT: 6.659 min Scan# 618
Delta R.T. 0.005 min
Lab File: 2E93528.D
Acq: 17 Aug 2013 3:23 am

Tgt Ion: 76 Resp: 2124

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	38.6
44	3.5	0.0	41.2

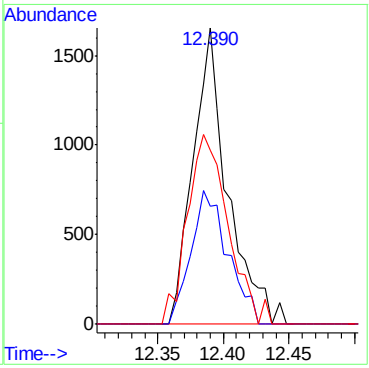




#85
tetrachloroethene
Concen: 1.52 ug/L
RT: 12.390 min Scan# 1711
Delta R.T. 0.021 min
Lab File: 2E93528.D
Acq: 17 Aug 2013 3:23 am

Tgt Ion:166 Resp: 3054

Ion	Ratio	Lower	Upper
166	100		
168	39.7	17.1	77.1
129	58.8	44.4	104.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93529.D
Acq On : 17 Aug 2013 3:52 am
Operator : tamikag
Sample : jb44675-6
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Aug 19 16:09:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

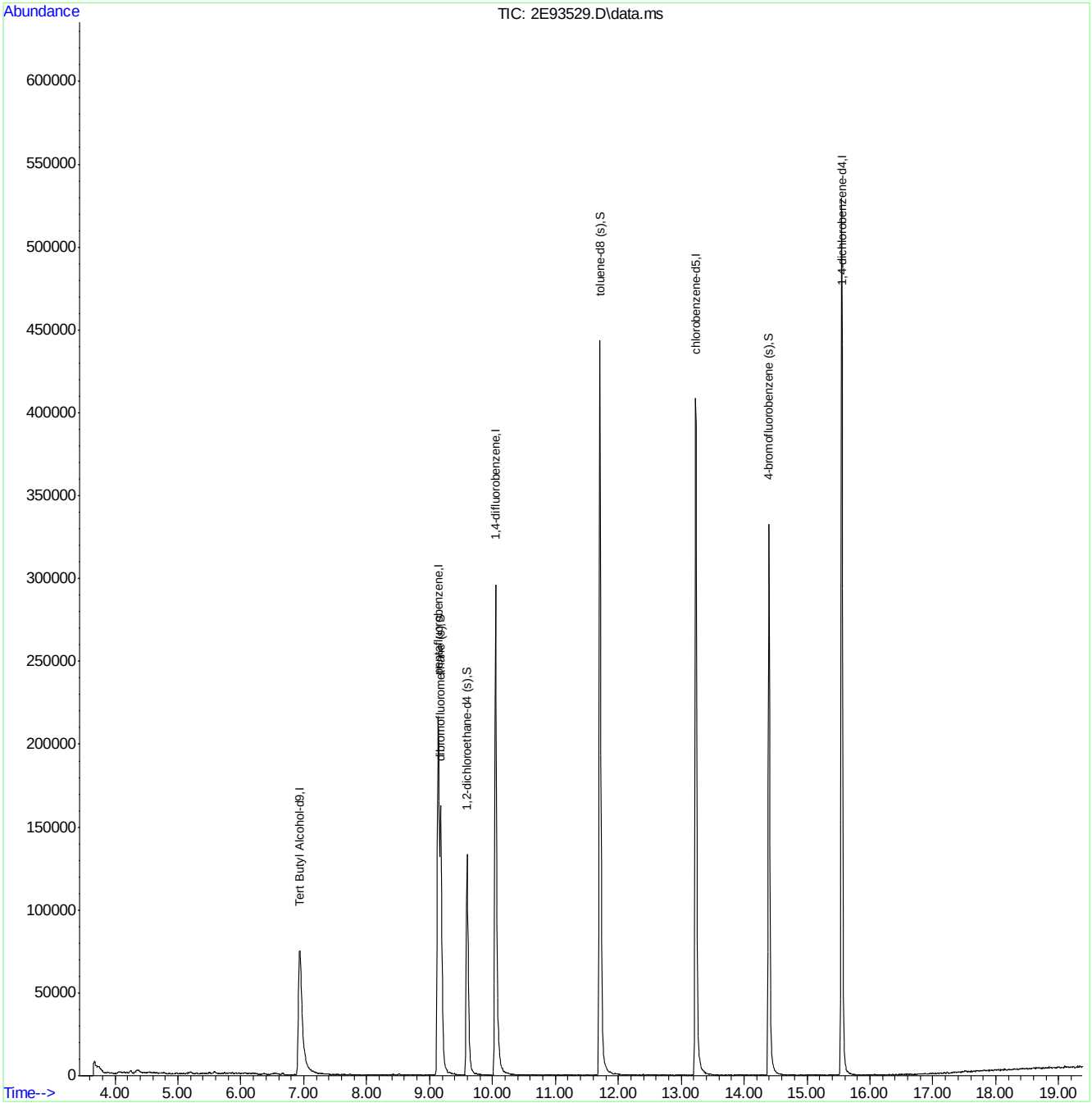
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	197380	500.00	ug/L	0.00
7) pentafluorobenzene	9.140	168	203121	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	307601	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	250462	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	139843	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	92776	48.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 96.74%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	111855	48.52	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 97.04%			
76) toluene-d8 (s)	11.709	98	351240	48.80	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.60%			
100) 4-bromofluorobenzene (s)	14.393	95	125603	46.28	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.56%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93529.D
Acq On : 17 Aug 2013 3:52 am
Operator : tamikag
Sample : jb44675-6
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Aug 19 16:09:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93530.D
Acq On : 17 Aug 2013 4:21 am
Operator : tamikag
Sample : jb44675-7
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Aug 19 16:10:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

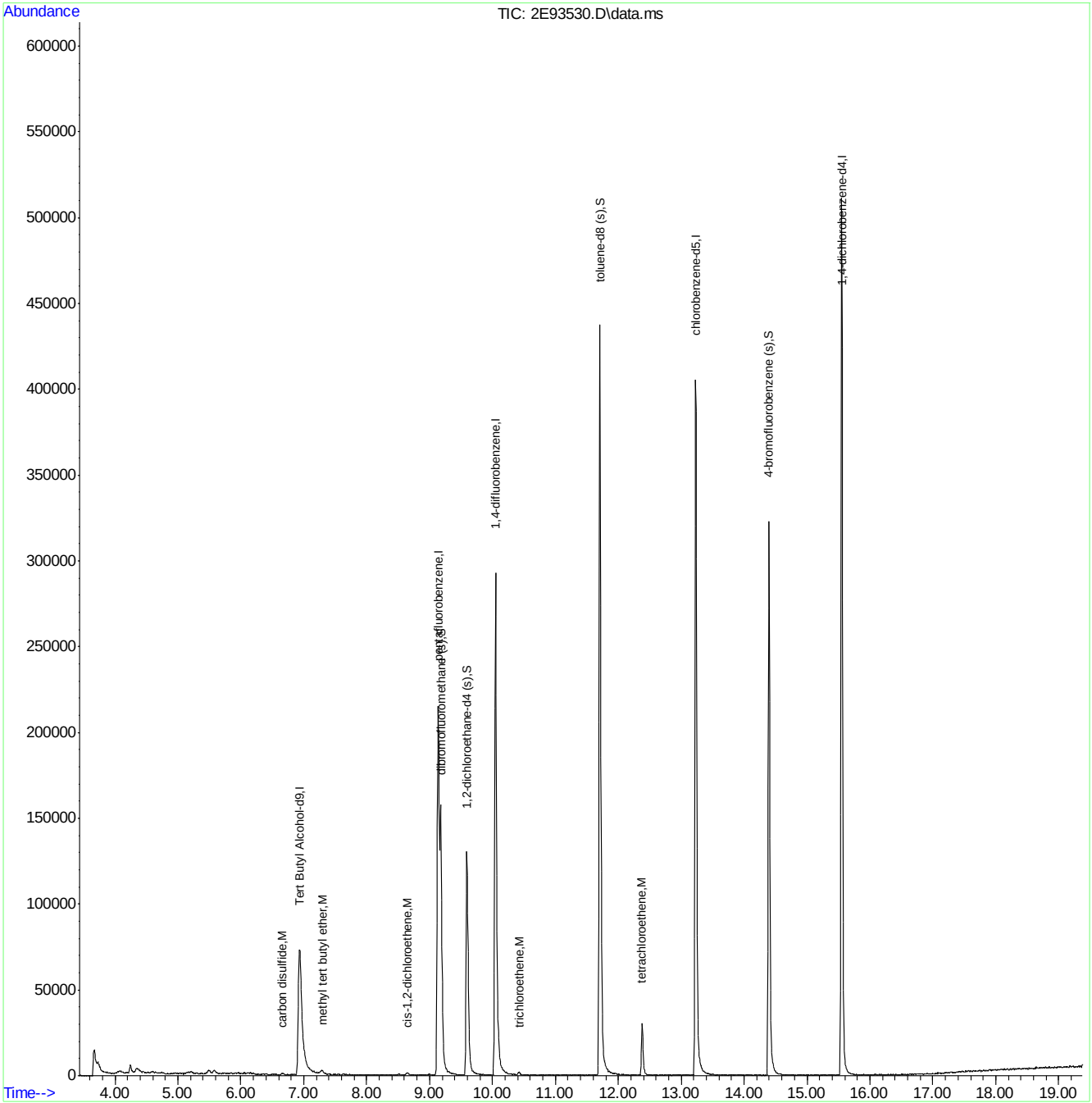
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	190301	500.00	ug/L	-0.01
7) pentafluorobenzene	9.134	168	196322	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	300245	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	247492	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	137073	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	90541	48.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 97.68%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	108987	48.91	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 97.82%			
76) toluene-d8 (s)	11.709	98	346008	49.25	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 98.50%			
100) 4-bromofluorobenzene (s)	14.393	95	123330	46.36	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.72%			
Target Compounds						Qvalue
27) carbon disulfide	6.654	76	1655	0.22	ug/L	68
31) methyl tert butyl ether	7.294	73	3294	0.46	ug/L	99
42) cis-1,2-dichloroethene	8.647	96	1067	0.48	ug/L #	50
67) trichloroethene	10.424	95	796	0.41	ug/L	84
85) tetrachloroethene	12.375	166	11067	5.57	ug/L	95

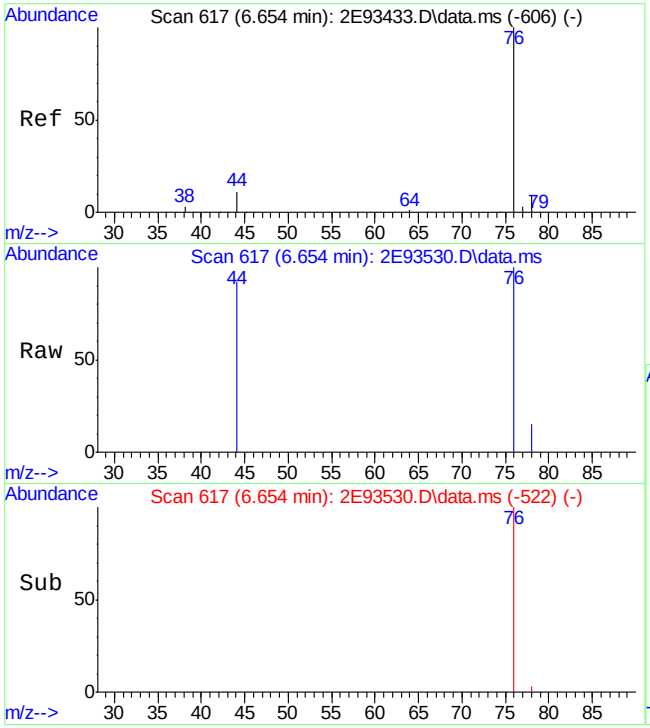
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93530.D
Acq On : 17 Aug 2013 4:21 am
Operator : tamikag
Sample : jb44675-7
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Aug 19 16:10:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

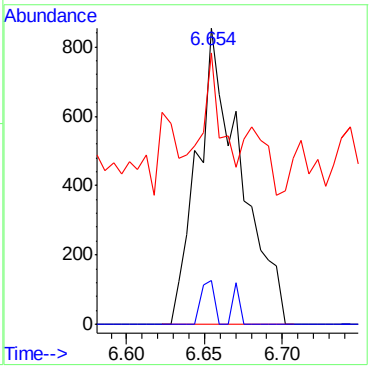


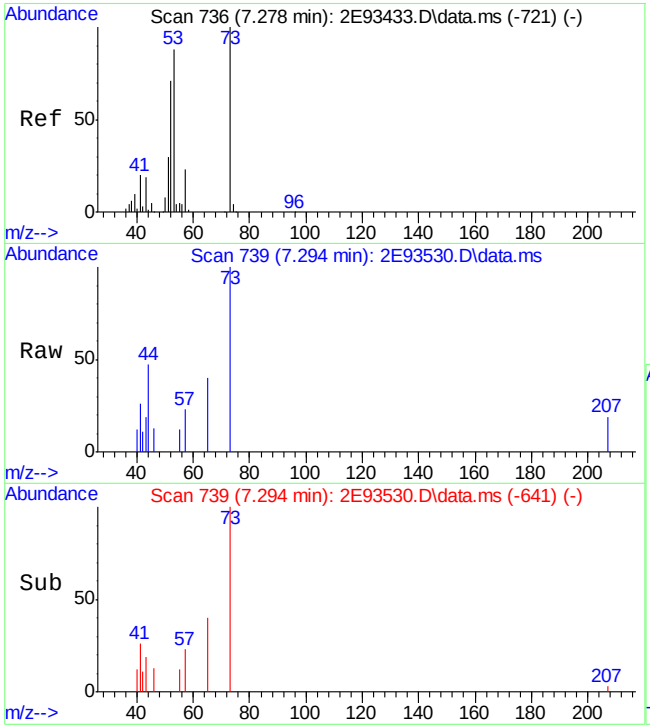


#27
carbon disulfide
Concen: 0.22 ug/L
RT: 6.654 min Scan# 617
Delta R.T. 0.000 min
Lab File: 2E93530.D
Acq: 17 Aug 2013 4:21 am

Tgt Ion: 76 Resp: 1655

Ion	Ratio	Lower	Upper
76	100		
78	14.8	0.0	38.6
44	27.9	0.0	41.2

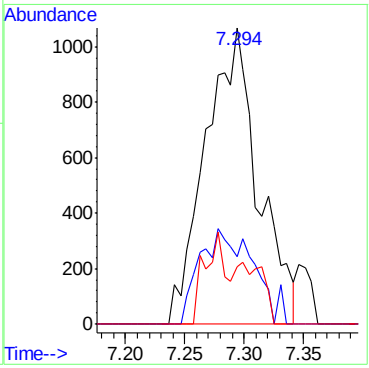


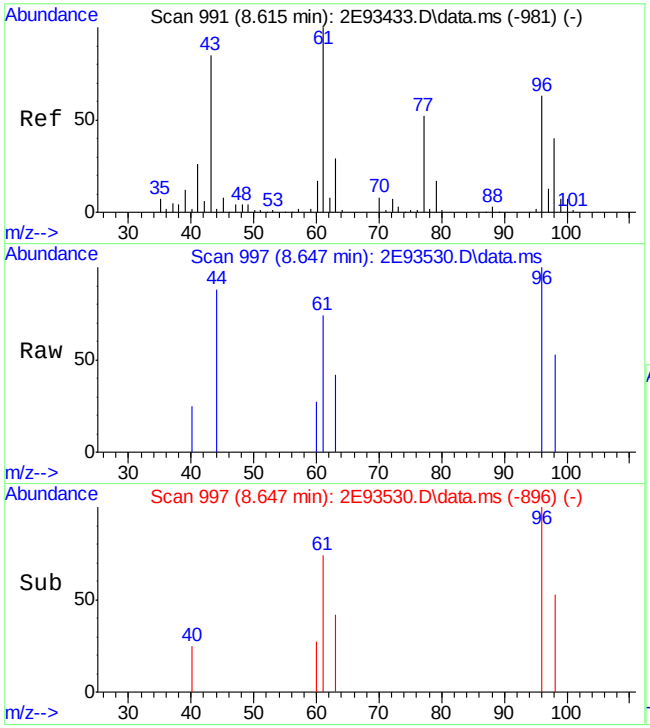


#31
methyl tert butyl ether
Concen: 0.46 ug/L
RT: 7.294 min Scan# 739
Delta R.T. 0.016 min
Lab File: 2E93530.D
Acq: 17 Aug 2013 4:21 am

Tgt Ion: 73 Resp: 3294

Ion	Ratio	Lower	Upper
73	100		
57	22.8	0.0	53.2
43	19.5	0.0	49.8

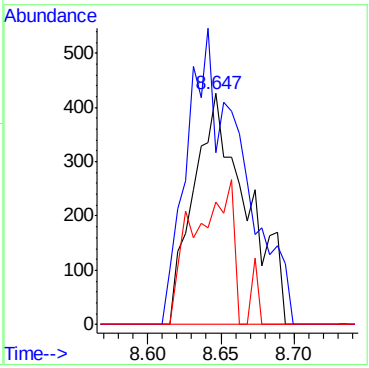


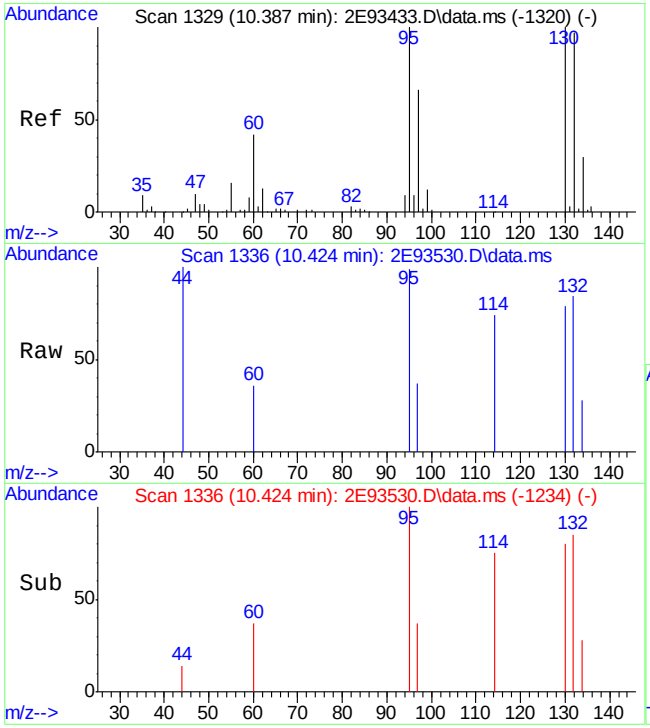


#42
cis-1,2-dichloroethene
Concen: 0.48 ug/L
RT: 8.647 min Scan# 997
Delta R.T. 0.032 min
Lab File: 2E93530.D
Acq: 17 Aug 2013 4:21 am

Tgt Ion: 96 Resp: 1067

Ion	Ratio	Lower	Upper
96	100		
61	74.2	129.6	189.6#
98	52.8	33.3	93.3

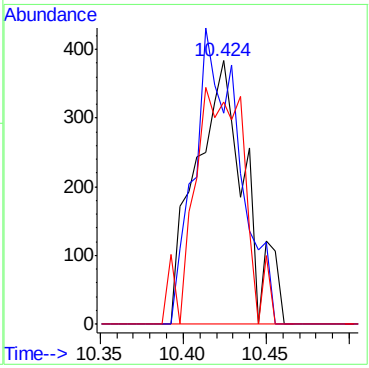


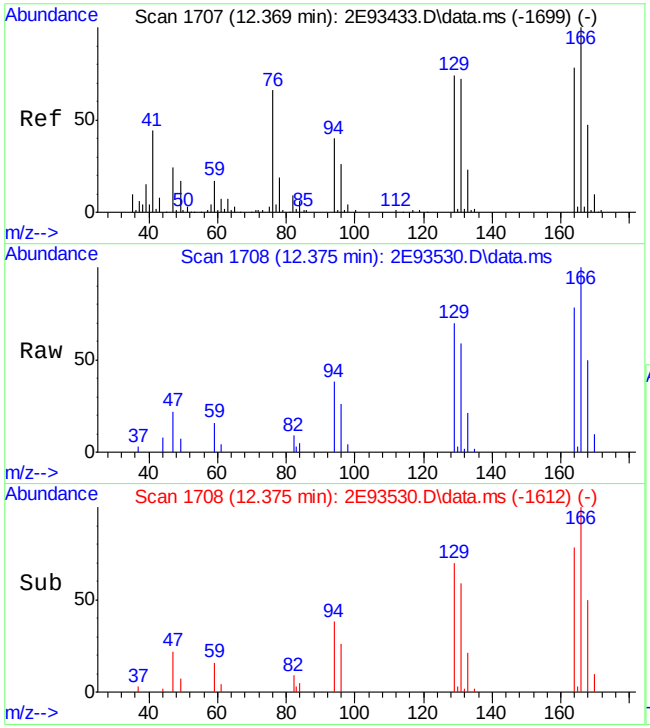


#67
trichloroethene
Concen: 0.41 ug/L
RT: 10.424 min Scan# 1336
Delta R.T. 0.037 min
Lab File: 2E93530.D
Acq: 17 Aug 2013 4:21 am

Tgt Ion: 95 Resp: 796

Ion	Ratio	Lower	Upper
95	100		
130	80.2	70.1	130.1
132	84.6	67.1	127.1

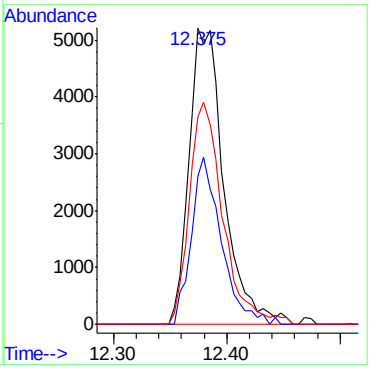




#85
tetrachloroethene
Concen: 5.57 ug/L
RT: 12.375 min Scan# 1708
Delta R.T. 0.005 min
Lab File: 2E93530.D
Acq: 17 Aug 2013 4:21 am

Tgt Ion:166 Resp: 11067

Ion	Ratio	Lower	Upper
166	100		
168	49.9	17.1	77.1
129	70.0	44.4	104.4



7.1.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93531.D
Acq On : 17 Aug 2013 4:50 am
Operator : tamikag
Sample : jb44675-8
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Aug 19 16:10:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

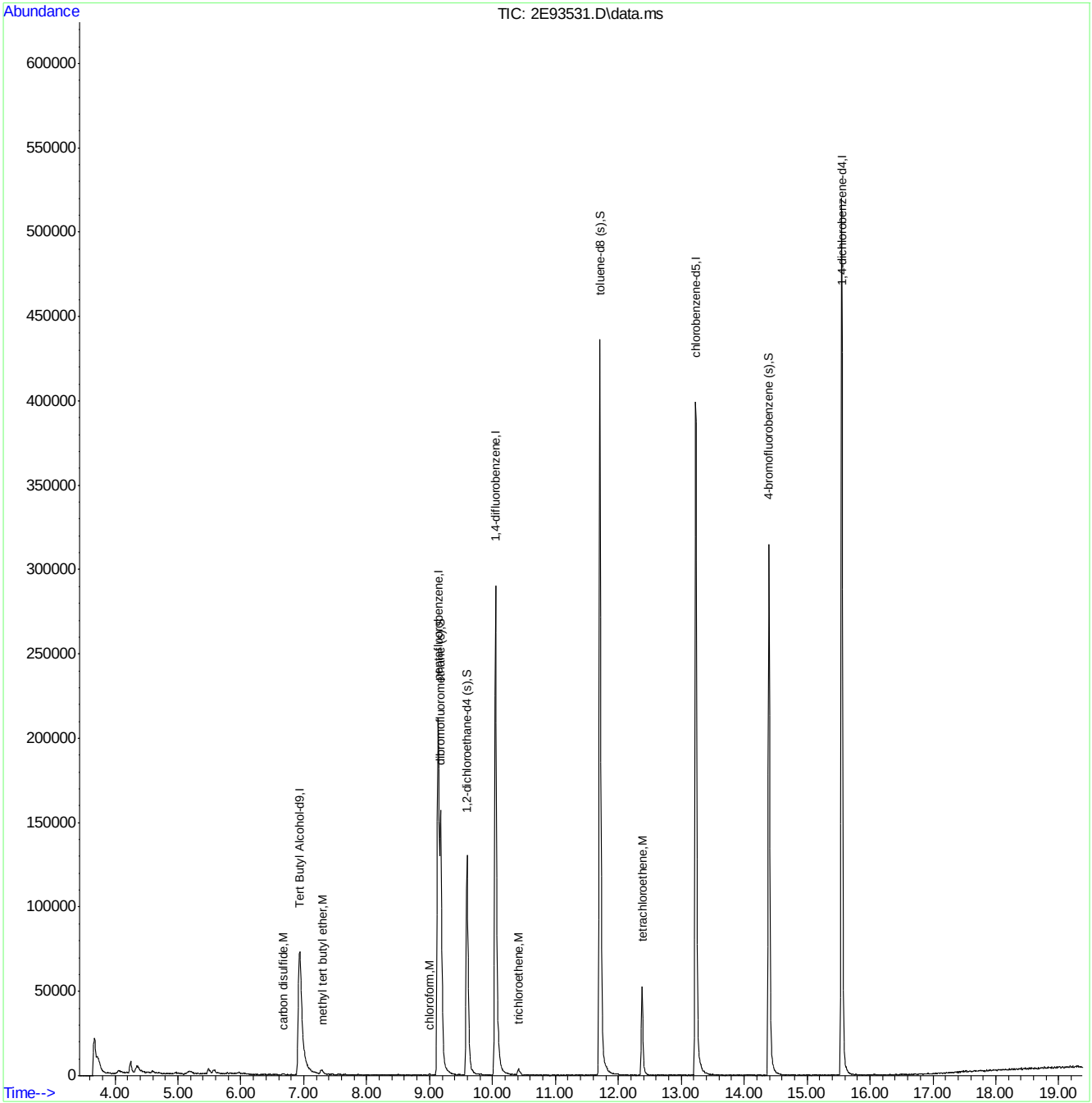
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	191851	500.00	ug/L	0.00
7) pentafluorobenzene	9.139	168	198094	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	302847	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	243064	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	137542	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	92511	49.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.92%			
49) 1,2-dichloroethane-d4 (s)	9.590	65	111061	49.39	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 98.78%			
76) toluene-d8 (s)	11.709	98	344862	48.66	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.32%			
100) 4-bromofluorobenzene (s)	14.393	95	123166	46.14	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.28%			
Target Compounds						Qvalue
27) carbon disulfide	6.670	76	1537	0.20	ug/L	70
31) methyl tert butyl ether	7.294	73	3341	0.46	ug/L	86
46) chloroform	8.998	85	628	0.27	ug/L #	73
67) trichloroethene	10.414	95	1761	0.89	ug/L	84
85) tetrachloroethene	12.380	166	19041	9.75	ug/L	93

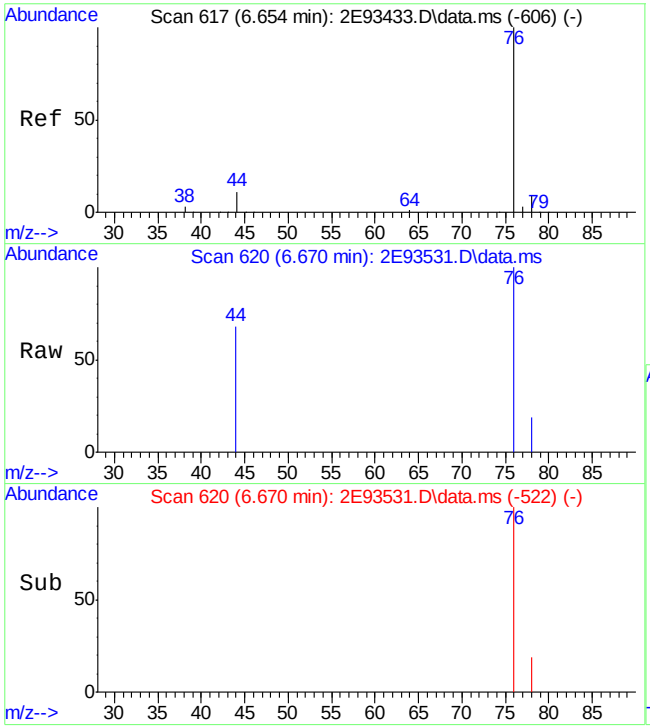
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93531.D
Acq On : 17 Aug 2013 4:50 am
Operator : tamikag
Sample : jb44675-8
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Aug 19 16:10:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

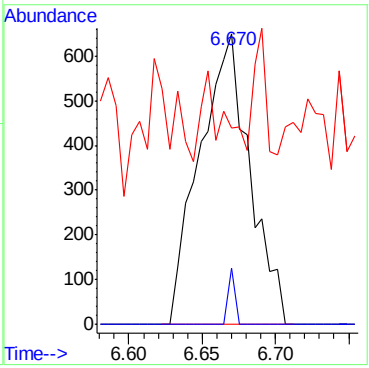


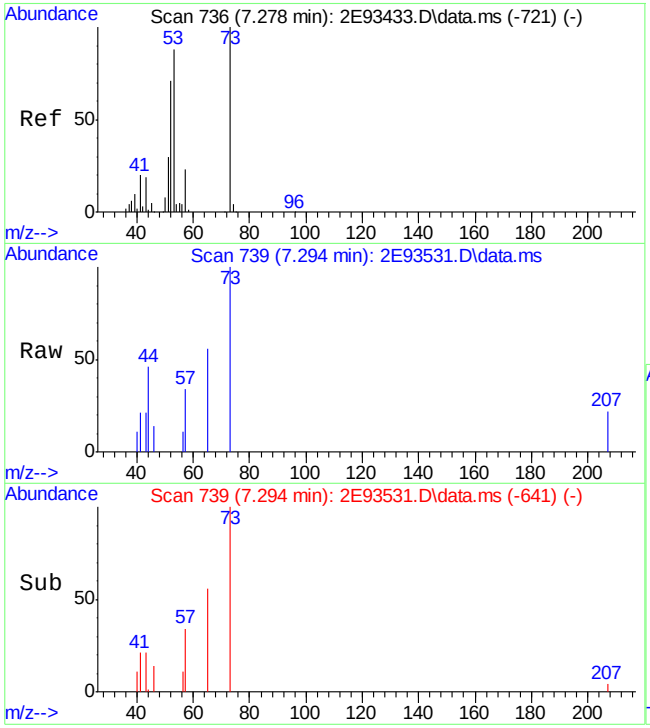


#27
carbon disulfide
Concen: 0.20 ug/L
RT: 6.670 min Scan# 620
Delta R.T. 0.016 min
Lab File: 2E93531.D
Acq: 17 Aug 2013 4:50 am

Tgt Ion: 76 Resp: 1537

Ion	Ratio	Lower	Upper
76	100		
78	19.4	0.0	38.6
44	0.0	0.0	41.2

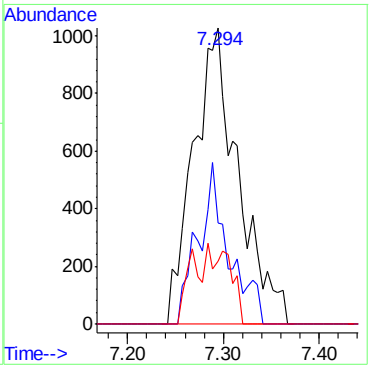


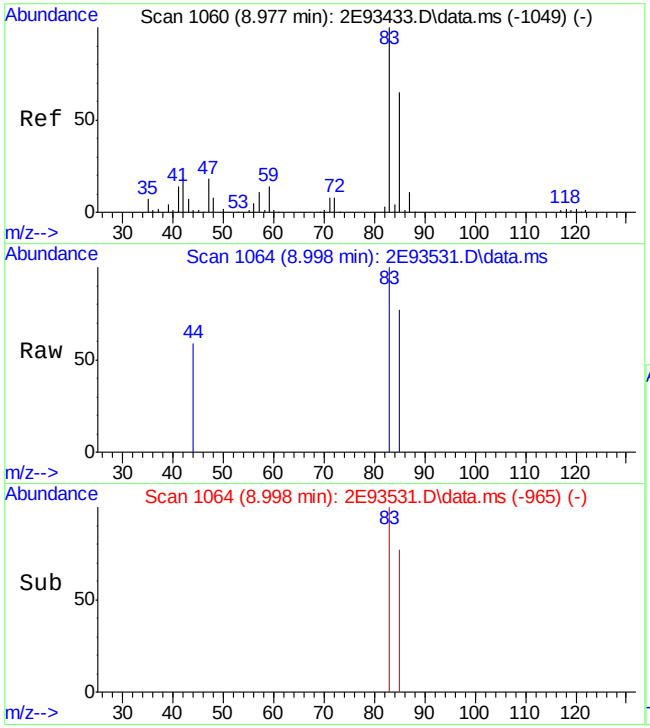


#31
methyl tert butyl ether
Concen: 0.46 ug/L
RT: 7.294 min Scan# 739
Delta R.T. 0.016 min
Lab File: 2E93531.D
Acq: 17 Aug 2013 4:50 am

Tgt Ion: 73 Resp: 3341

Ion	Ratio	Lower	Upper
73	100		
57	34.0	0.0	53.2
43	21.4	0.0	49.8

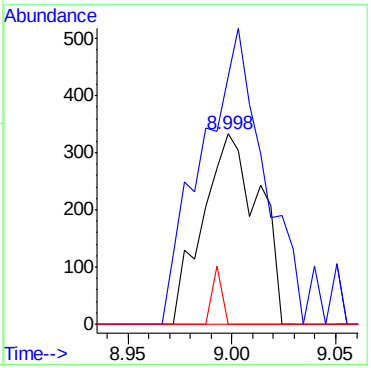


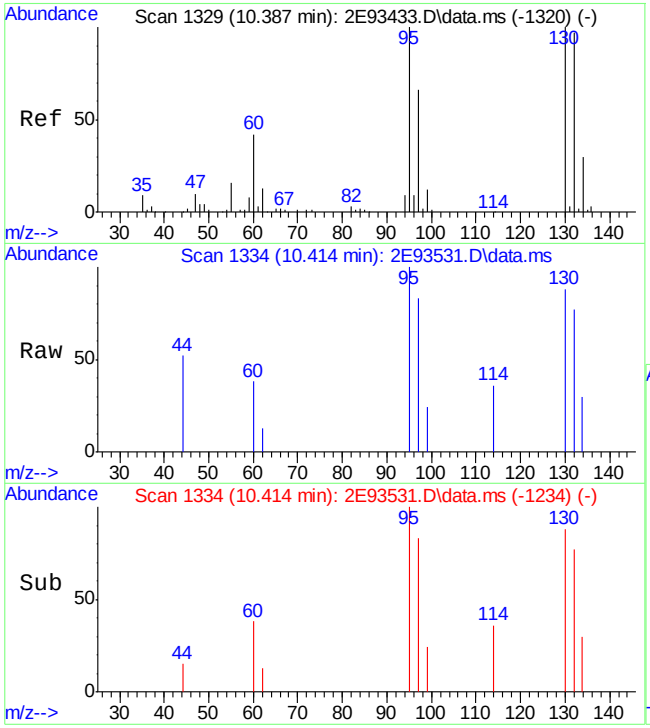


#46
chloroform
Concen: 0.27 ug/L
RT: 8.998 min Scan# 1064
Delta R.T. 0.021 min
Lab File: 2E93531.D
Acq: 17 Aug 2013 4:50 am

Tgt Ion: 85 Resp: 628

Ion	Ratio	Lower	Upper
85	100		
83	130.3	124.3	184.3
47	0.0	7.2	67.2#

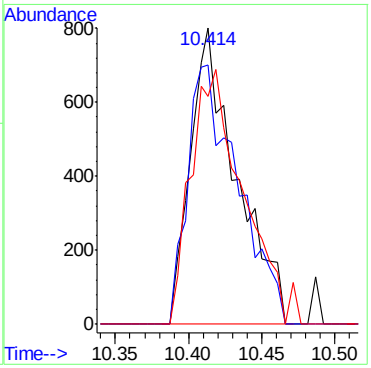


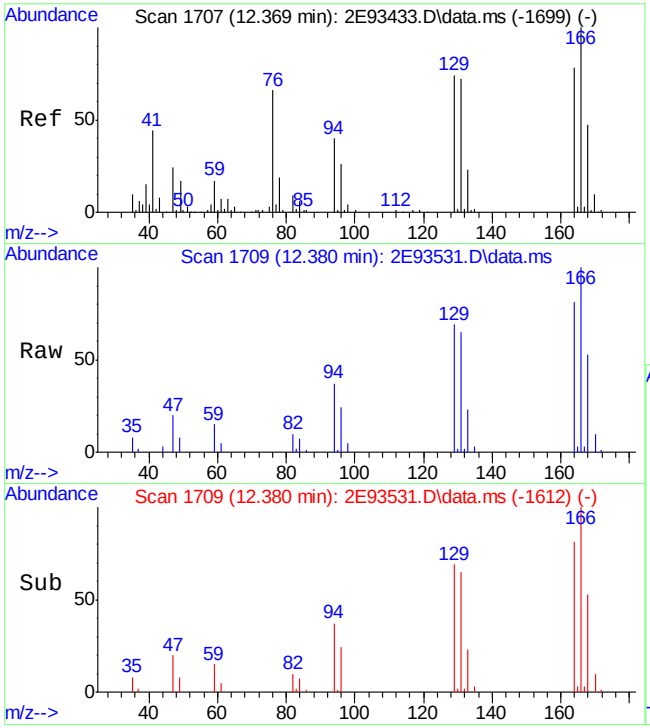


#67
trichloroethene
Concen: 0.89 ug/L
RT: 10.414 min Scan# 1334
Delta R.T. 0.026 min
Lab File: 2E93531.D
Acq: 17 Aug 2013 4:50 am

Tgt Ion: 95 Resp: 1761

Ion	Ratio	Lower	Upper
95	100		
130	87.5	70.1	130.1
132	77.0	67.1	127.1

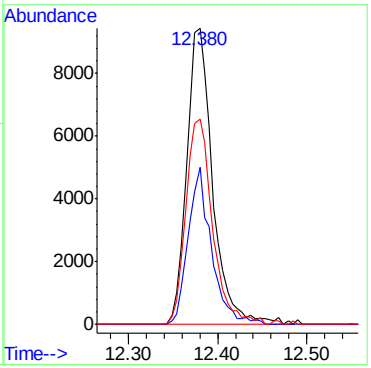




#85
tetrachloroethene
Concen: 9.75 ug/L
RT: 12.380 min Scan# 1709
Delta R.T. 0.011 min
Lab File: 2E93531.D
Acq: 17 Aug 2013 4:50 am

Tgt Ion:166 Resp: 19041

Ion	Ratio	Lower	Upper
166	100		
168	53.2	17.1	77.1
129	69.3	44.4	104.4



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93532.D
Acq On : 17 Aug 2013 5:19 am
Operator : tamikag
Sample : jb44675-9
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Aug 19 16:10:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	192961	500.00	ug/L	0.00
7) pentafluorobenzene	9.139	168	200376	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	309654	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	245808	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	138488	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	93617	49.48	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.96%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	111596	49.07	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 98.14%			
76) toluene-d8 (s)	11.708	98	349889	48.29	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 96.58%			
100) 4-bromofluorobenzene (s)	14.393	95	123819	46.07	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.14%			
Target Compounds						Qvalue

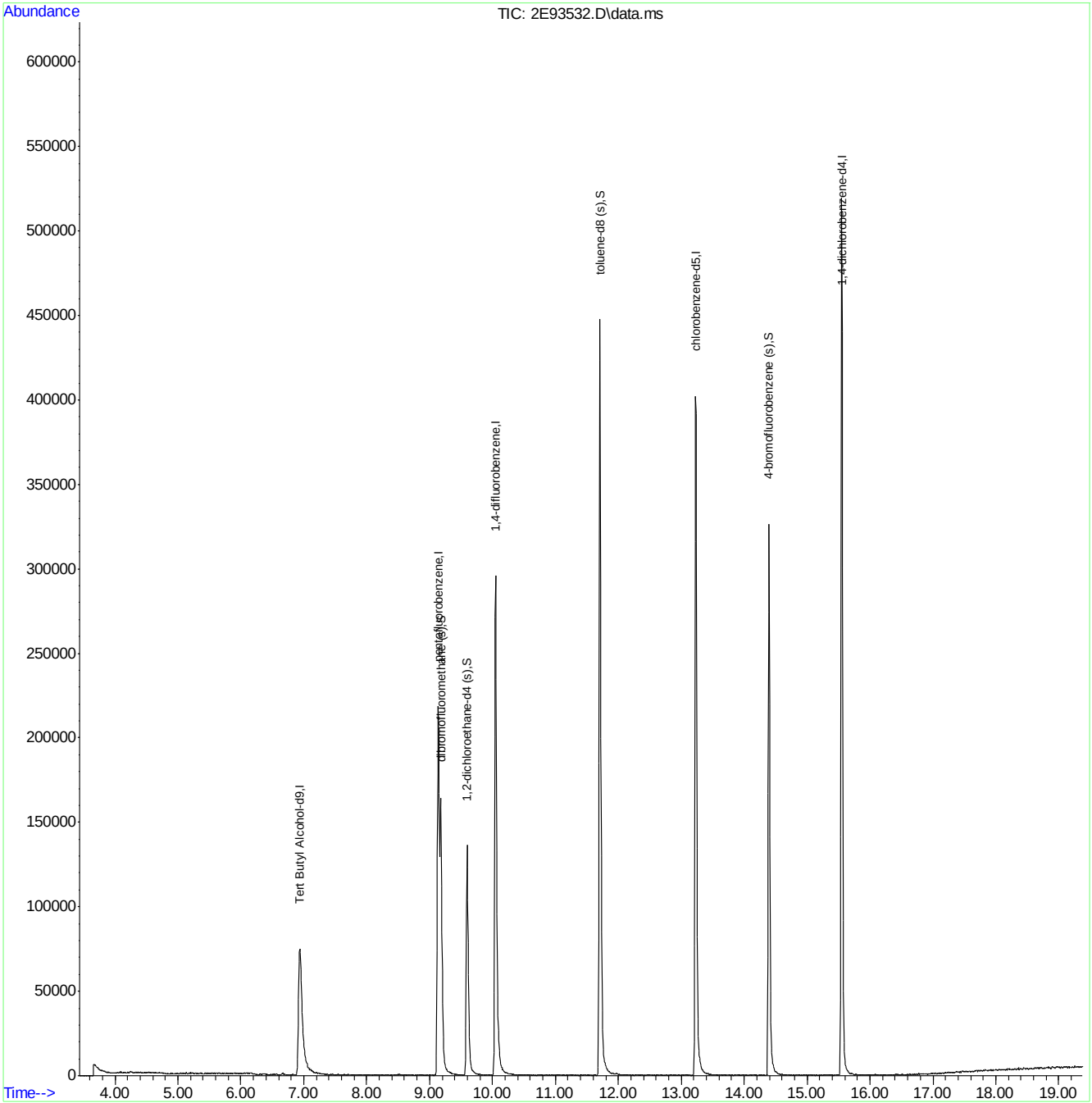
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93532.D
Acq On : 17 Aug 2013 5:19 am
Operator : tamikag
Sample : jb44675-9
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Aug 19 16:10:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93533.D
Acq On : 17 Aug 2013 5:48 am
Operator : tamikag
Sample : jb44675-10
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Aug 19 16:11:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

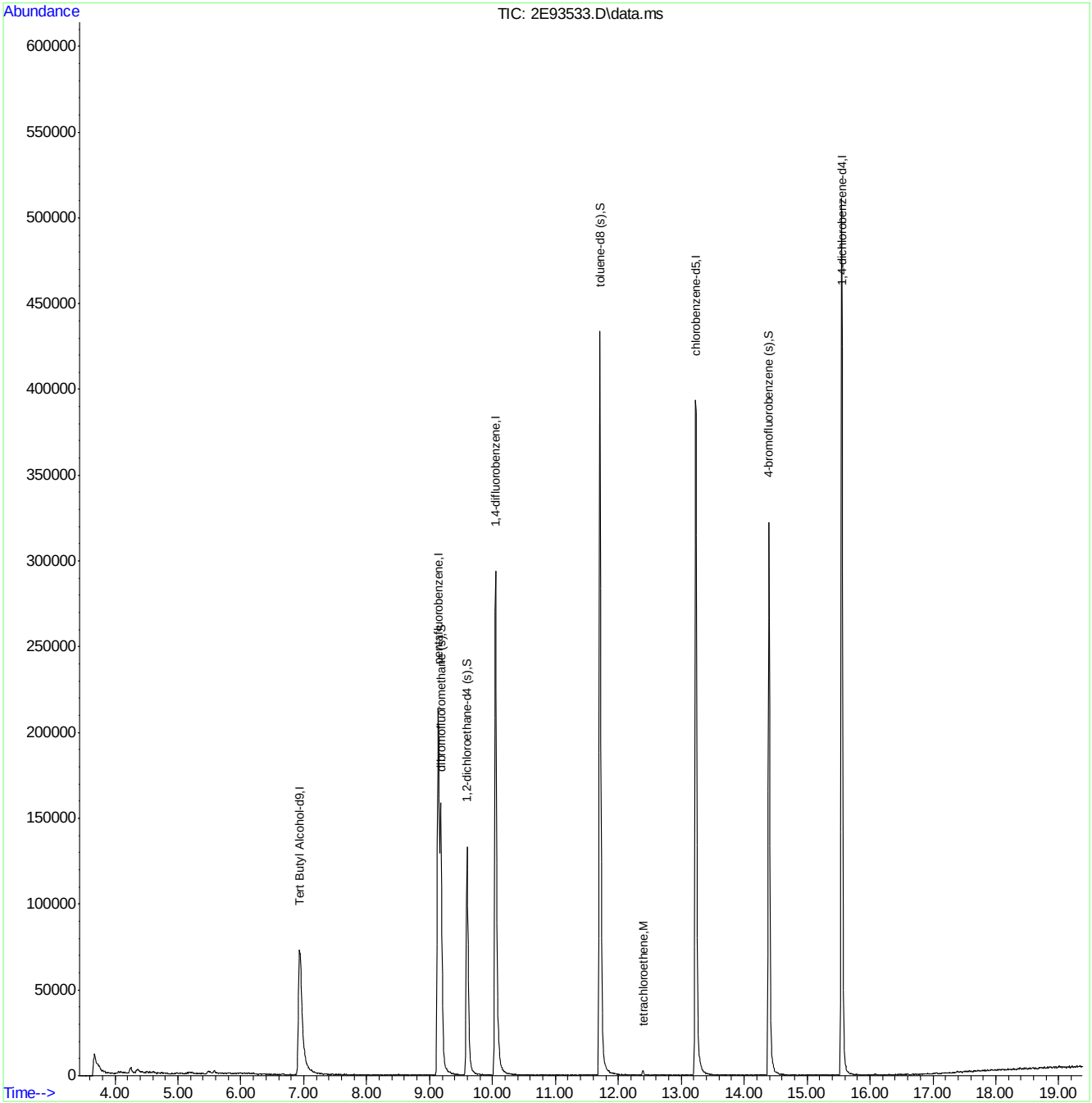
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	192158	500.00	ug/L	-0.01
7) pentafluorobenzene	9.139	168	196657	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	296786	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	244488	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	136697	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	92457	49.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 99.58%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	109592	49.10	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 98.20%			
76) toluene-d8 (s)	11.708	98	342335	49.29	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 98.58%			
100) 4-bromofluorobenzene (s)	14.393	95	120942	45.58	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 91.16%			
Target Compounds						Qvalue
85) tetrachloroethene	12.395	166	1006	0.51	ug/L	86

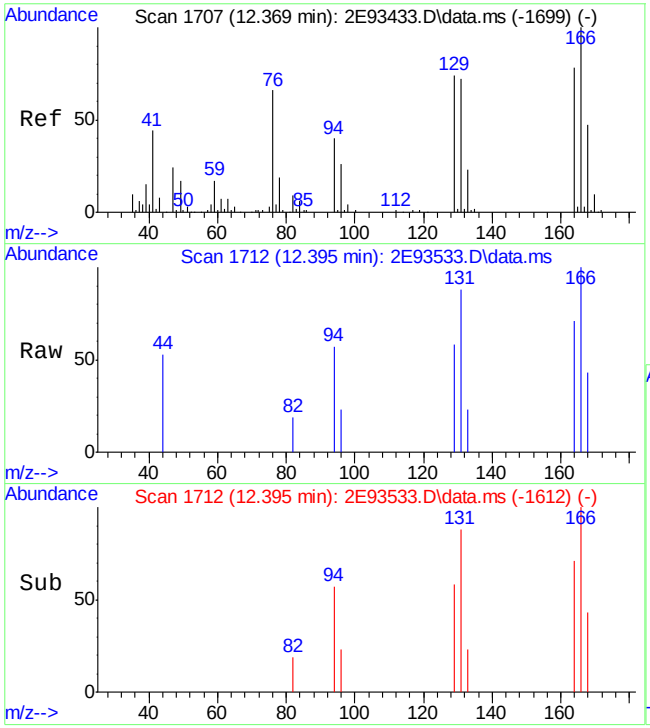
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93533.D
Acq On : 17 Aug 2013 5:48 am
Operator : tamikag
Sample : jb44675-10
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Aug 19 16:11:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

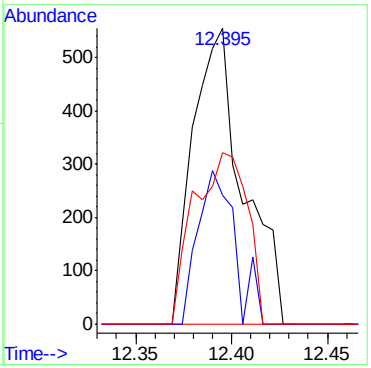




#85
tetrachloroethene
Concen: 0.51 ug/L
RT: 12.395 min Scan# 1712
Delta R.T. 0.026 min
Lab File: 2E93533.D
Acq: 17 Aug 2013 5:48 am

Tgt Ion:166 Resp: 1006

Ion	Ratio	Lower	Upper
166	100		
168	43.4	17.1	77.1
129	57.8	44.4	104.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93534.D
Acq On : 17 Aug 2013 6:17 am
Operator : tamikag
Sample : jb44675-11
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Aug 19 16:17:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

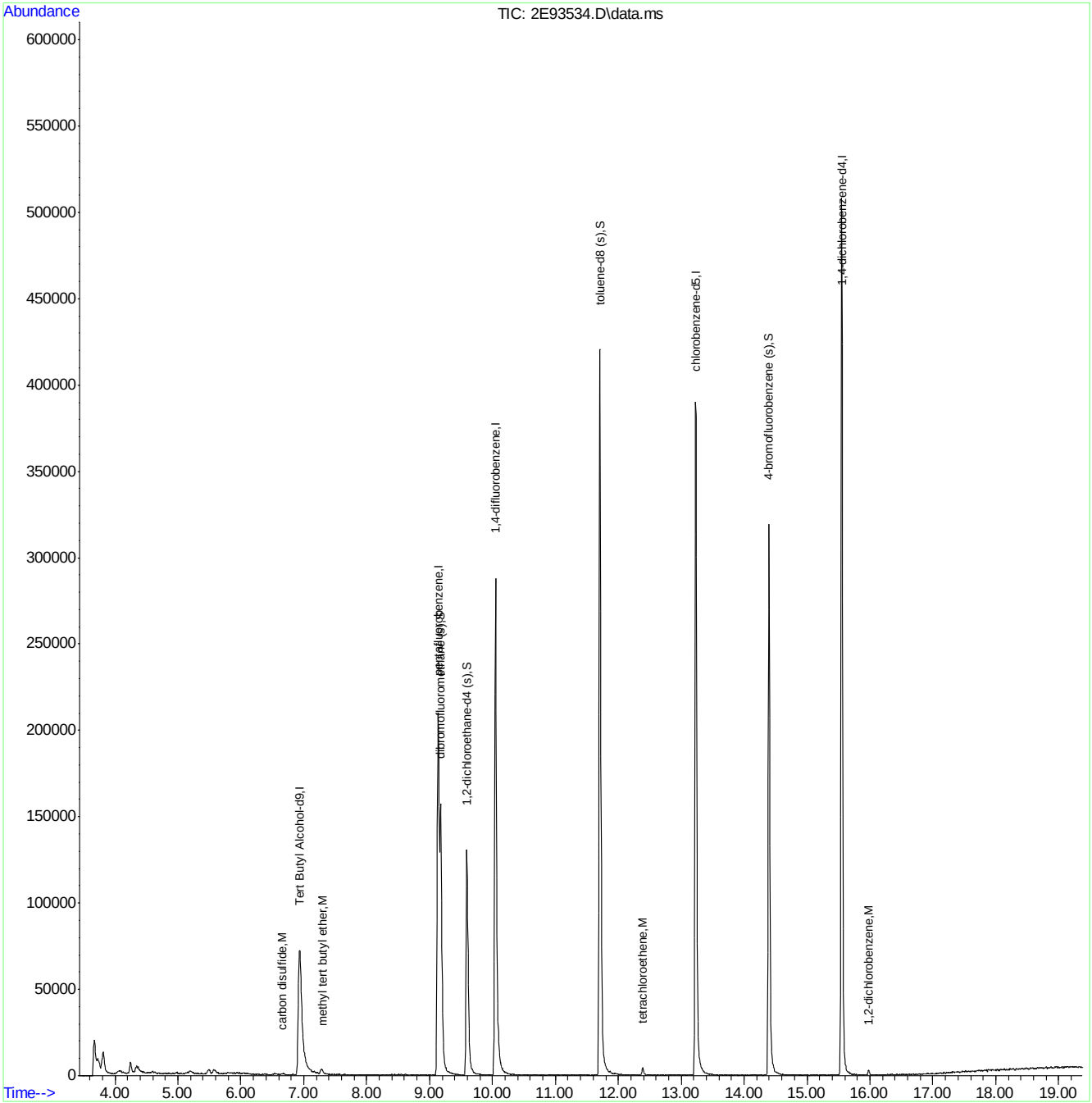
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	187430	500.00	ug/L	-0.01
7) pentafluorobenzene	9.140	168	191868	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	299828	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	241277	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	132136	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	90620	50.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 100.04%			
49) 1,2-dichloroethane-d4 (s)	9.590	65	108600	49.87	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.74%			
76) toluene-d8 (s)	11.709	98	341363	48.65	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.30%			
100) 4-bromofluorobenzene (s)	14.393	95	120514	46.99	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 93.98%			
Target Compounds						Qvalue
27) carbon disulfide	6.665	76	1570	0.21	ug/L	73
31) methyl tert butyl ether	7.294	73	4037	0.58	ug/L	82
85) tetrachloroethene	12.385	166	1794	0.93	ug/L	88
118) 1,2-dichlorobenzene	15.982	146	1644	0.37	ug/L	87

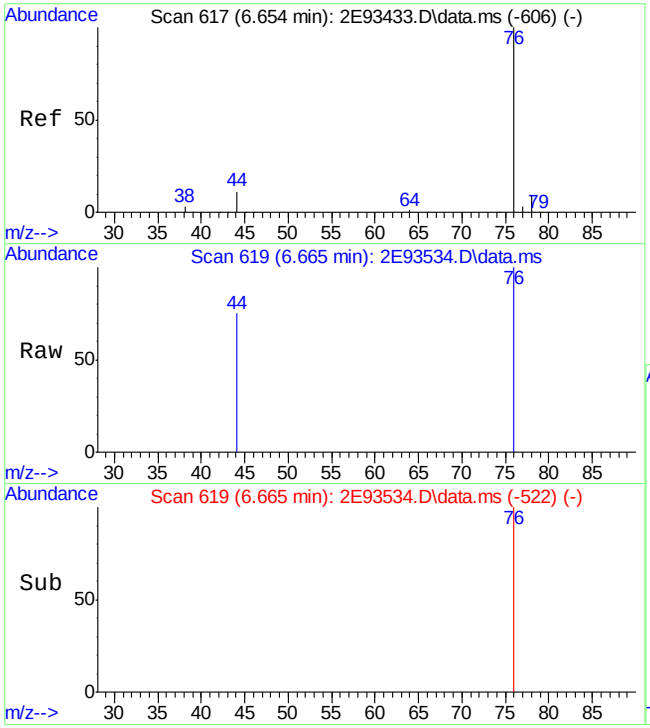
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93534.D
Acq On : 17 Aug 2013 6:17 am
Operator : tamikag
Sample : jb44675-11
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Aug 19 16:17:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

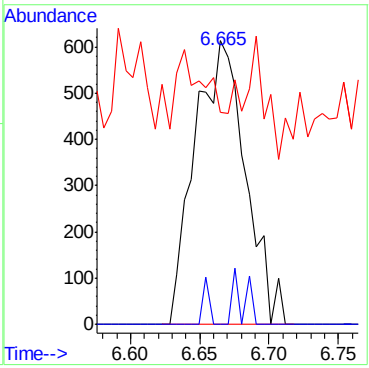


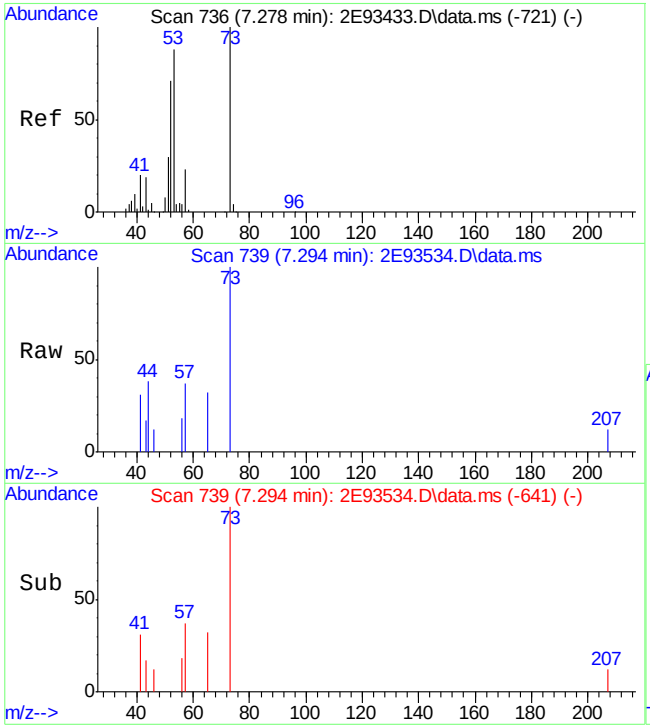


#27
carbon disulfide
Concen: 0.21 ug/L
RT: 6.665 min Scan# 619
Delta R.T. 0.011 min
Lab File: 2E93534.D
Acq: 17 Aug 2013 6:17 am

Tgt Ion: 76 Resp: 1570

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	38.6
44	0.0	0.0	41.2

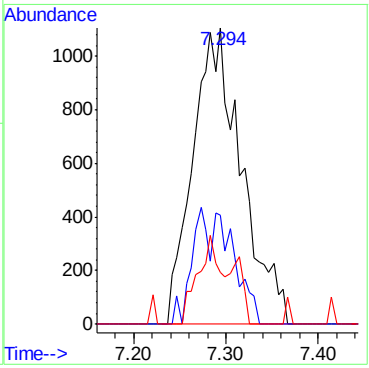


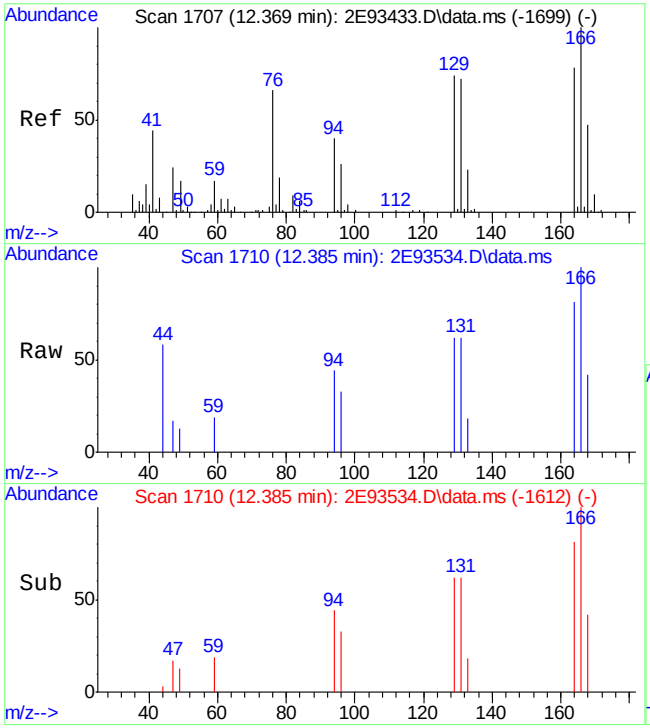


#31
methyl tert butyl ether
Concen: 0.58 ug/L
RT: 7.294 min Scan# 739
Delta R.T. 0.016 min
Lab File: 2E93534.D
Acq: 17 Aug 2013 6:17 am

Tgt Ion: 73 Resp: 4037

Ion	Ratio	Lower	Upper
73	100		
57	36.8	0.0	53.2
43	17.4	0.0	49.8

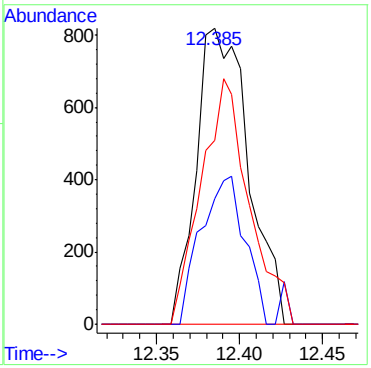


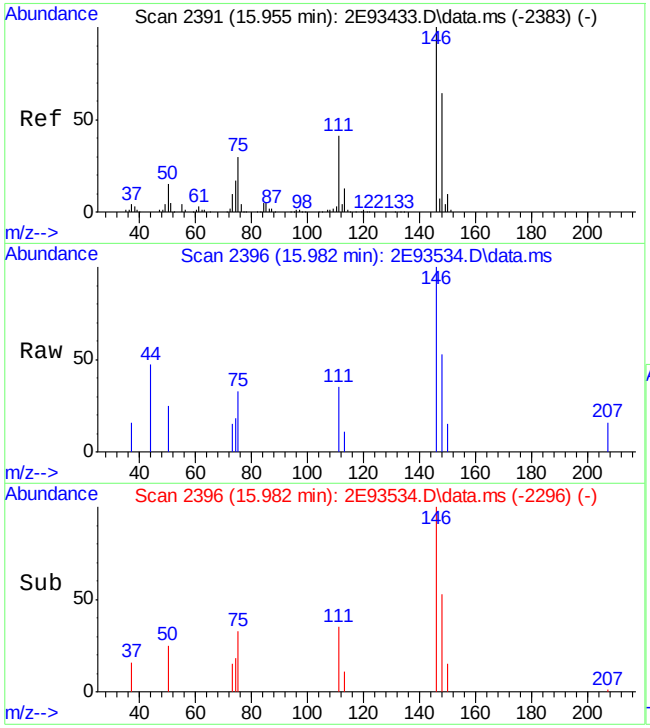


#85
tetrachloroethene
Concen: 0.93 ug/L
RT: 12.385 min Scan# 1710
Delta R.T. 0.016 min
Lab File: 2E93534.D
Acq: 17 Aug 2013 6:17 am

Tgt Ion:166 Resp: 1794

Ion	Ratio	Lower	Upper
166	100		
168	42.4	17.1	77.1
129	62.0	44.4	104.4

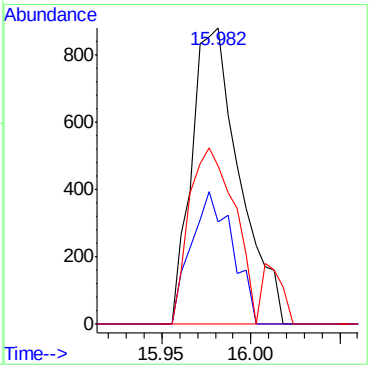




#118
1,2-dichlorobenzene
Concen: 0.37 ug/L
RT: 15.982 min Scan# 2396
Delta R.T. 0.026 min
Lab File: 2E93534.D
Acq: 17 Aug 2013 6:17 am

Tgt Ion:146 Resp: 1644

Ion	Ratio	Lower	Upper
146	100		
111	34.5	11.3	71.3
148	53.3	34.4	94.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93535.D
Acq On : 17 Aug 2013 6:47 am
Operator : tamikag
Sample : jb44675-12
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Aug 19 16:17:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

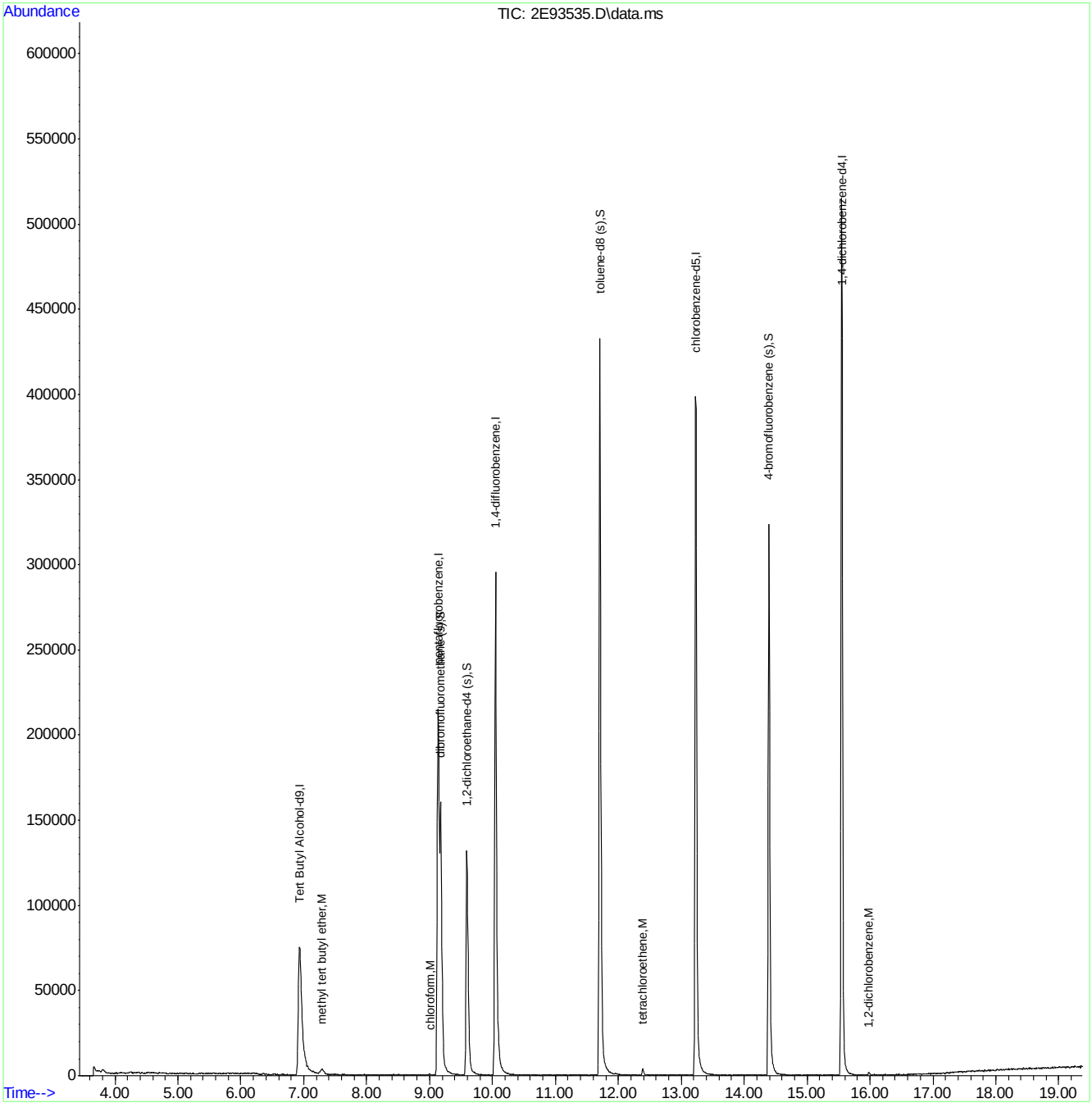
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	188092	500.00	ug/L	-0.01
7) pentafluorobenzene	9.134	168	198785	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	302384	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	245201	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	135658	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	92043	49.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.06%			
49) 1,2-dichloroethane-d4 (s)	9.590	65	111615	49.47	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 98.94%			
76) toluene-d8 (s)	11.708	98	345035	48.76	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.52%			
100) 4-bromofluorobenzene (s)	14.393	95	121470	46.13	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.26%			
Target Compounds						Qvalue
31) methyl tert butyl ether	7.283	73	4883	0.67	ug/L	96
46) chloroform	9.003	85	521	0.22	ug/L #	81
85) tetrachloroethene	12.390	166	1326	0.67	ug/L #	68
118) 1,2-dichlorobenzene	15.982	146	1008	0.22	ug/L	82

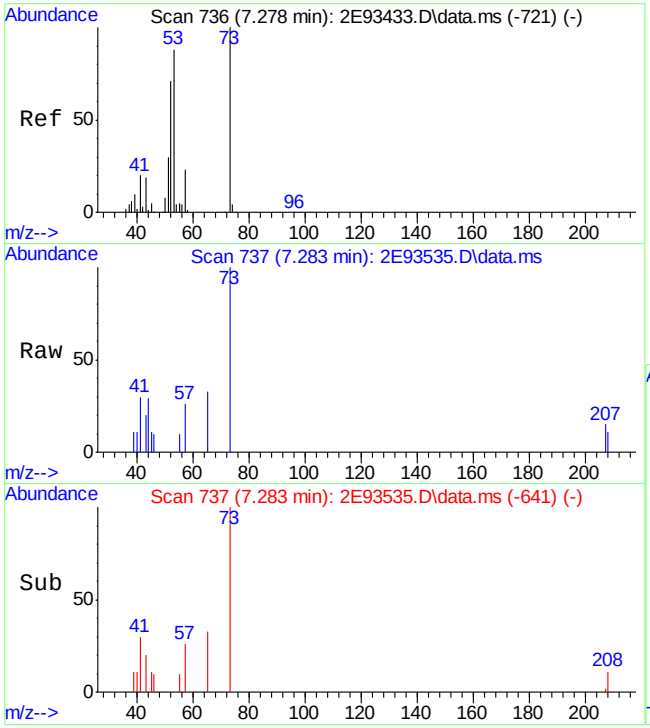
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93535.D
Acq On : 17 Aug 2013 6:47 am
Operator : tamikag
Sample : jb44675-12
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Aug 19 16:17:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

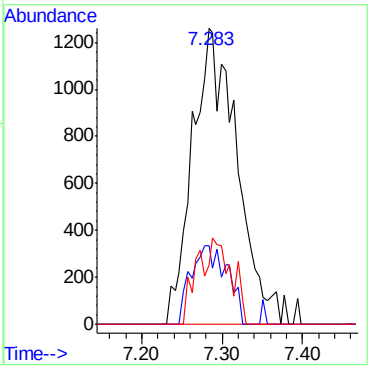


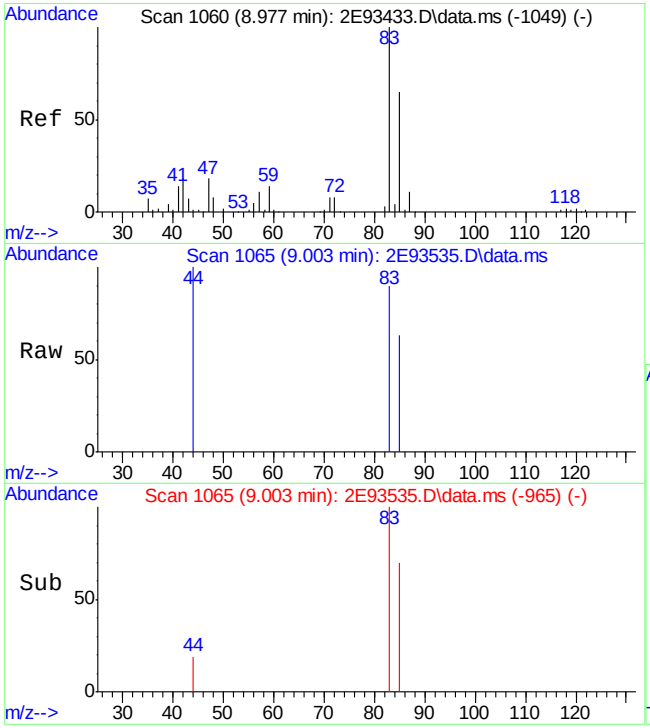


#31
methyl tert butyl ether
Concen: 0.67 ug/L
RT: 7.283 min Scan# 737
Delta R.T. 0.005 min
Lab File: 2E93535.D
Acq: 17 Aug 2013 6:47 am

Tgt Ion: 73 Resp: 4883

Ion	Ratio	Lower	Upper
73	100		
57	26.3	0.0	53.2
43	19.9	0.0	49.8

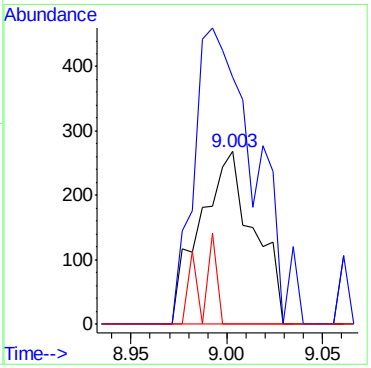


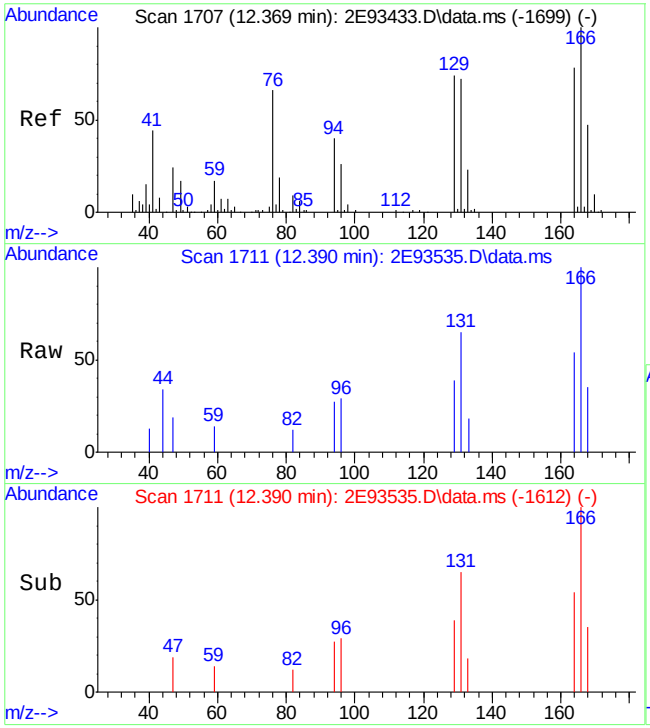


#46
chloroform
Concen: 0.22 ug/L
RT: 9.003 min Scan# 1065
Delta R.T. 0.026 min
Lab File: 2E93535.D
Acq: 17 Aug 2013 6:47 am

Tgt Ion: 85 Resp: 521

Ion	Ratio	Lower	Upper
85	100		
83	142.9	124.3	184.3
47	0.0	7.2	67.2#

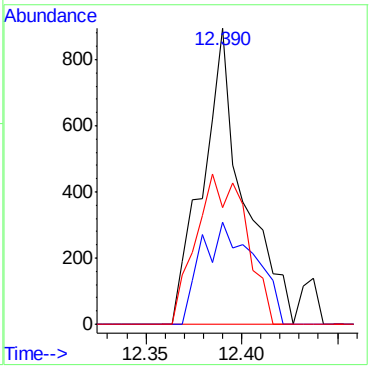


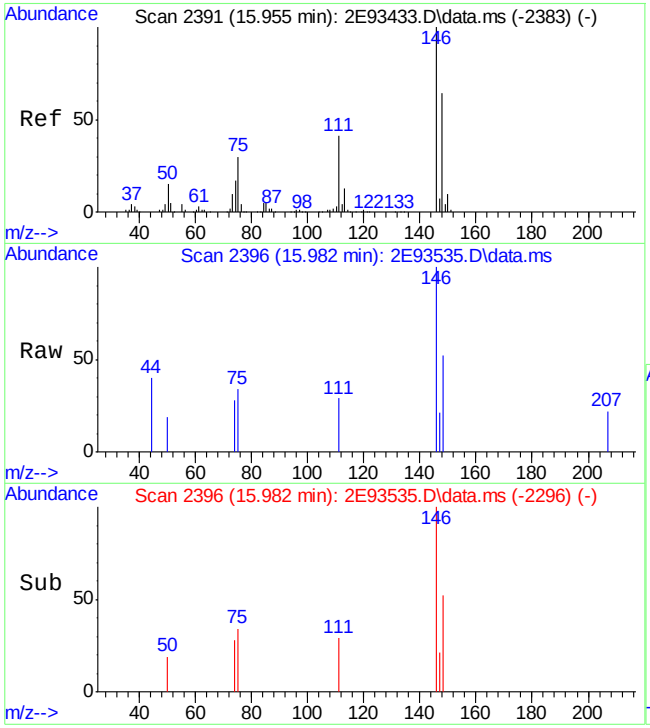


#85
tetrachloroethene
Concen: 0.67 ug/L
RT: 12.390 min Scan# 1711
Delta R.T. 0.021 min
Lab File: 2E93535.D
Acq: 17 Aug 2013 6:47 am

Tgt Ion:166 Resp: 1326

Ion	Ratio	Lower	Upper
166	100		
168	34.6	17.1	77.1
129	39.4	44.4	104.4#

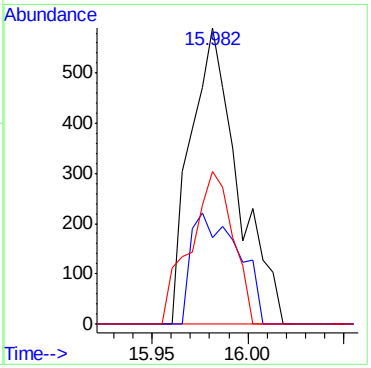




#118
1,2-dichlorobenzene
Concen: 0.22 ug/L
RT: 15.982 min Scan# 2396
Delta R.T. 0.026 min
Lab File: 2E93535.D
Acq: 17 Aug 2013 6:47 am

Tgt Ion:146 Resp: 1008

Ion	Ratio	Lower	Upper
146	100		
111	29.2	11.3	71.3
148	51.5	34.4	94.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93522.D
Acq On : 17 Aug 2013 12:29 am
Operator : tamikag
Sample : jb44675-13
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Aug 19 16:06:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

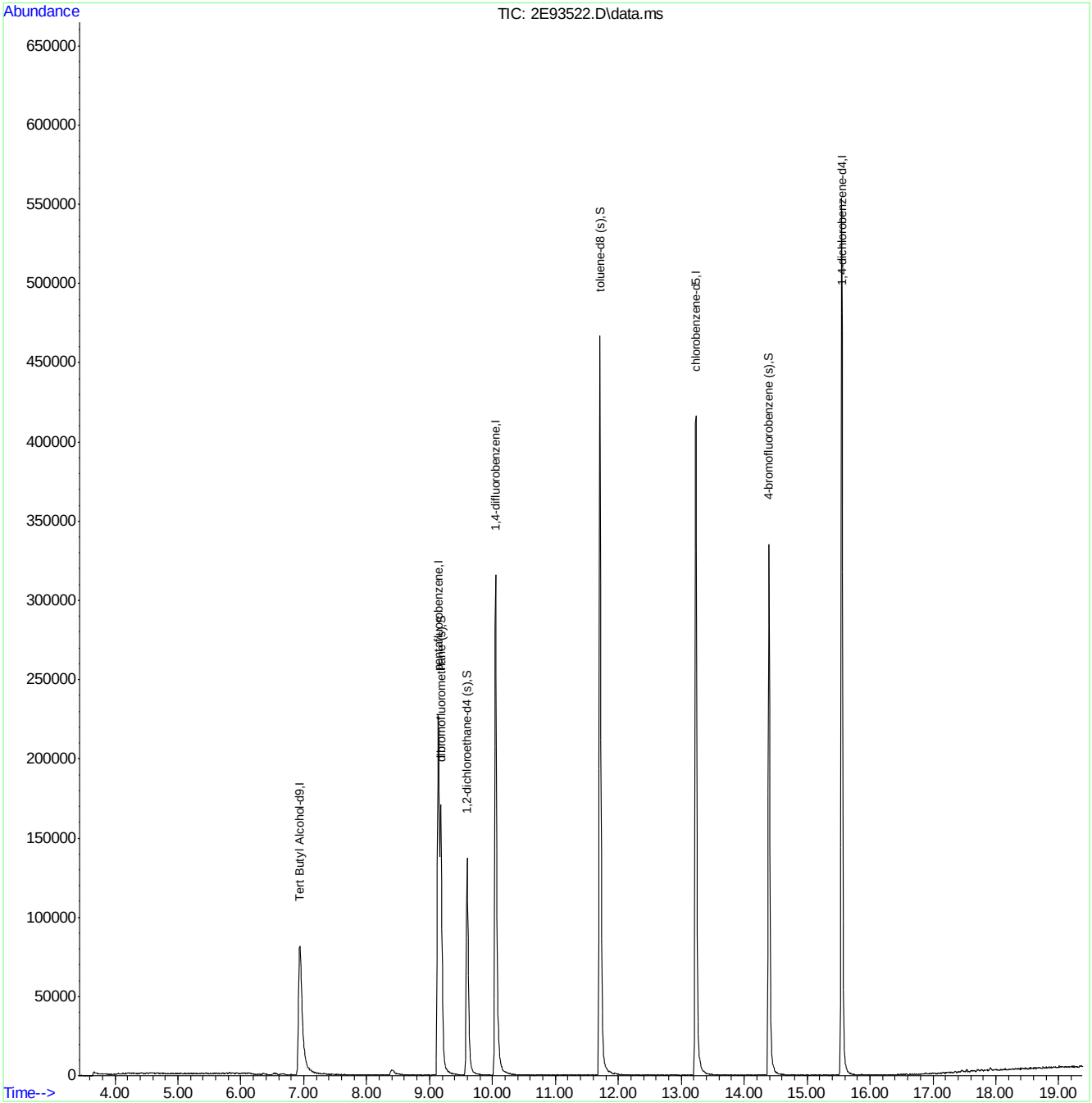
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	210709	500.00	ug/L	0.00
7) pentafluorobenzene	9.139	168	215008	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	325497	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	260649	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	144695	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	99638	49.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.16%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	116803	47.86	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 95.72%			
76) toluene-d8 (s)	11.708	98	368451	48.37	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 96.74%			
100) 4-bromofluorobenzene (s)	14.393	95	130537	46.48	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.96%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93522.D
Acq On : 17 Aug 2013 12:29 am
Operator : tamikag
Sample : jb44675-13
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Aug 19 16:06:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93523.D
Acq On : 17 Aug 2013 12:58 am
Operator : tamikag
Sample : jb44675-14
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Aug 19 16:07:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

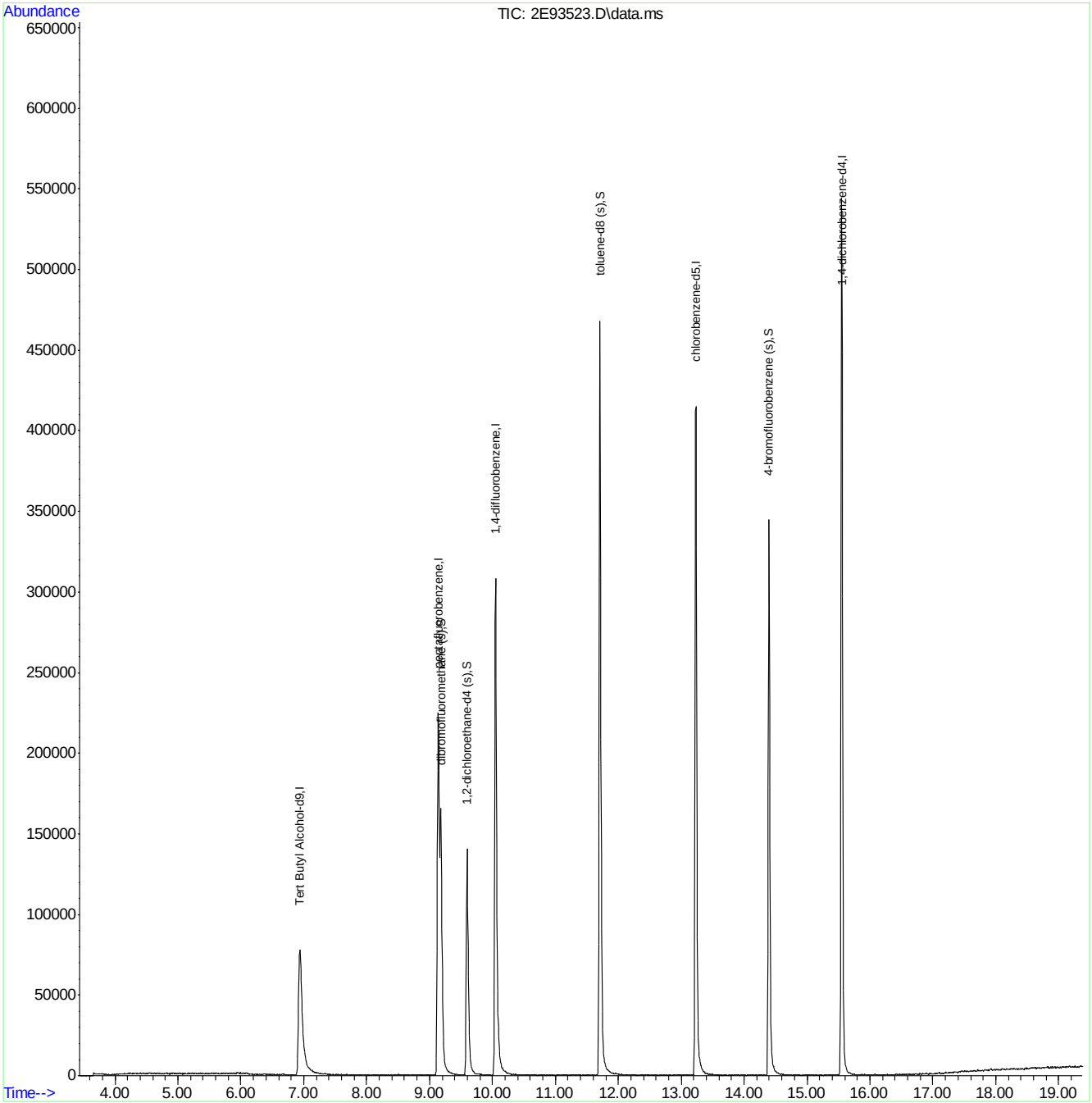
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	208046	500.00	ug/L	0.00
7) pentafluorobenzene	9.140	168	212671	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	325462	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	258502	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	145664	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	98307	48.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 97.90%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	114630	47.49	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 94.98%			
76) toluene-d8 (s)	11.709	98	365591	48.00	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 96.00%			
100) 4-bromofluorobenzene (s)	14.393	95	131932	46.67	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 93.34%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93523.D
Acq On : 17 Aug 2013 12:58 am
Operator : tamikag
Sample : jb44675-14
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Aug 19 16:07:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93536.D
Acq On : 17 Aug 2013 7:16 am
Operator : tamikag
Sample : jb44675-15
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Aug 19 16:18:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

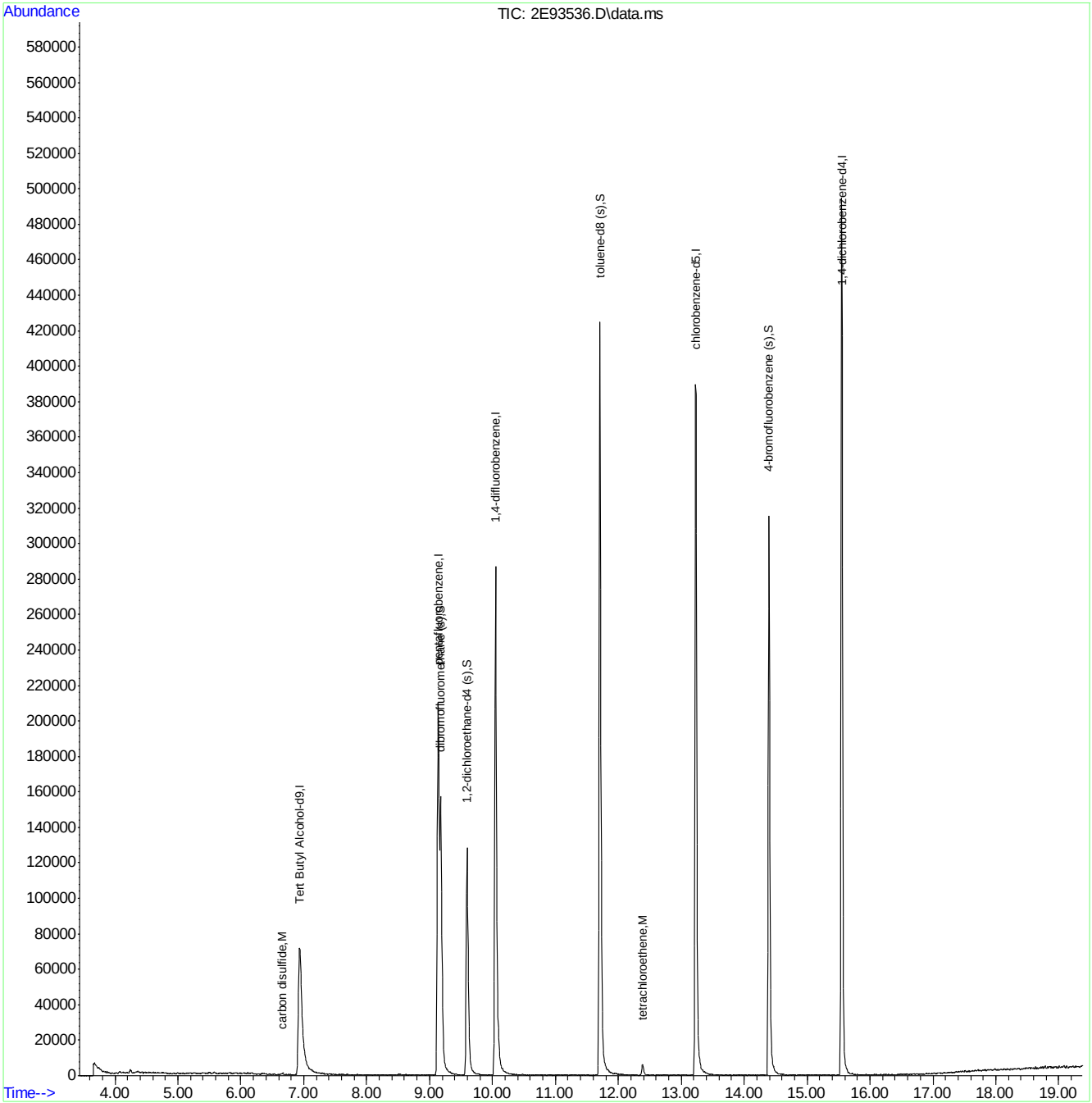
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	187140	500.00	ug/L	-0.01
7) pentafluorobenzene	9.139	168	190927	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	297688	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	239139	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	133531	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	89846	49.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 99.66%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	107663	49.68	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.36%			
76) toluene-d8 (s)	11.708	98	336475	48.30	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 96.60%			
100) 4-bromofluorobenzene (s)	14.393	95	120105	46.34	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.68%			
Target Compounds						Qvalue
27) carbon disulfide	6.659	76	1593	0.22	ug/L	73
85) tetrachloroethene	12.385	166	2672	1.39	ug/L	82

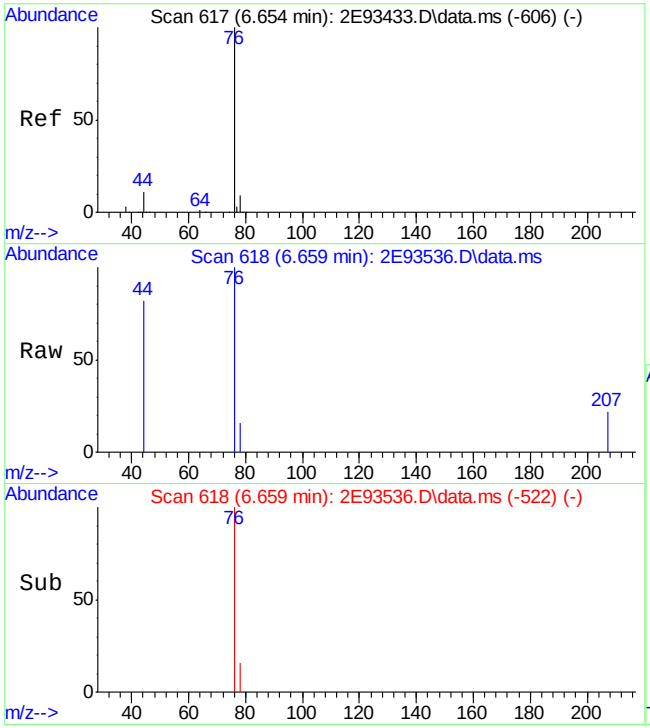
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93536.D
Acq On : 17 Aug 2013 7:16 am
Operator : tamikag
Sample : jb44675-15
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Aug 19 16:18:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

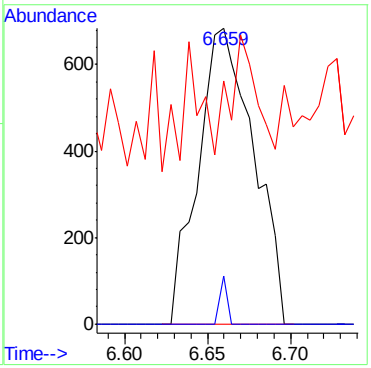


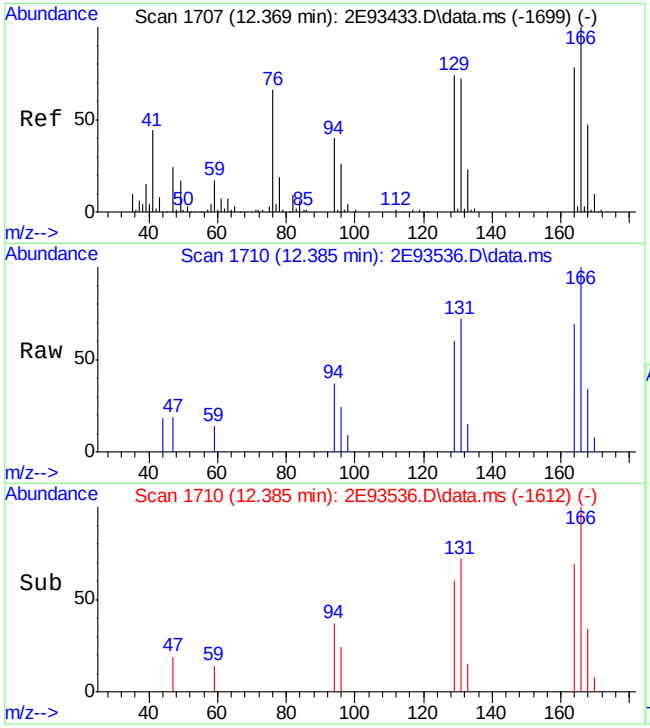


#27
carbon disulfide
Concen: 0.22 ug/L
RT: 6.659 min Scan# 618
Delta R.T. 0.005 min
Lab File: 2E93536.D
Acq: 17 Aug 2013 7:16 am

Tgt Ion: 76 Resp: 1593

Ion	Ratio	Lower	Upper
76	100		
78	16.2	0.0	38.6
44	23.0	0.0	41.2

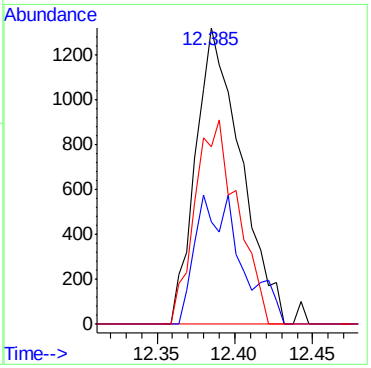




#85
tetrachloroethene
Concen: 1.39 ug/L
RT: 12.385 min Scan# 1710
Delta R.T. 0.016 min
Lab File: 2E93536.D
Acq: 17 Aug 2013 7:16 am

Tgt Ion:166 Resp: 2672

Ion	Ratio	Lower	Upper
166	100		
168	34.4	17.1	77.1
129	60.0	44.4	104.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93517.D
Acq On : 16 Aug 2013 10:04 pm
Operator : tamikag
Sample : mb
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 19 16:05:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

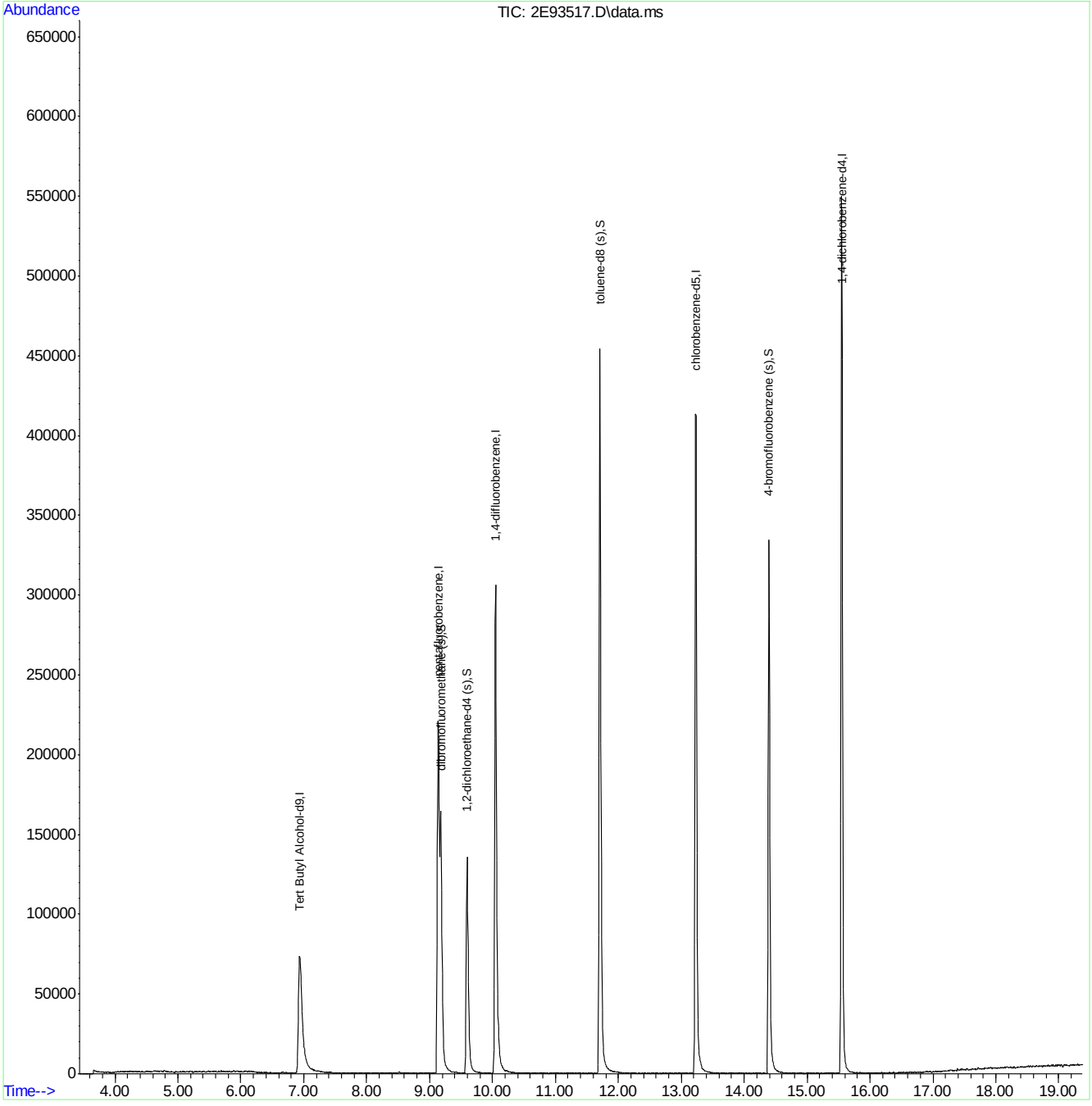
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.932	65	198027	500.00	ug/L	-0.01
7) pentafluorobenzene	9.139	168	207831	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	317376	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	257741	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	146475	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	96450	49.15	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.30%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	113232	48.00	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 96.00%			
76) toluene-d8 (s)	11.709	98	362447	48.80	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.60%			
100) 4-bromofluorobenzene (s)	14.393	95	128246	45.11	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 90.22%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93517.D
Acq On : 16 Aug 2013 10:04 pm
Operator : tamikag
Sample : mb
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 19 16:05:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB44675

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93518.D
Acq On : 16 Aug 2013 10:33 pm
Operator : tamikag
Sample : bs
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 19 16:05:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.937	65	202917	500.00	ug/L	0.00
7) pentafluorobenzene	9.134	168	209983	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	330635	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	272726	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	148044	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	98587	49.72	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 99.44%			
49) 1,2-dichloroethane-d4 (s)	9.590	65	118327	49.65	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.30%			
76) toluene-d8 (s)	11.708	98	387511	50.09	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 100.18%			
100) 4-bromofluorobenzene (s)	14.393	95	136434	47.48	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 94.96%			
Target Compounds						Qvalue
2) 1,4-dioxane	10.770	88	53706	1387.90	ug/L #	91
3) tertiary butyl alcohol	7.053	59	116951	246.32	ug/L	100
4) ethanol	5.868	46	2028	17.63	ug/L #	1
5) acetonitrile	6.754	40	136248	539.85	ug/L	96
6) iso-butyl alcohol	9.433	41	64920	552.24	ug/L	96
12) chlorodifluoromethane	3.812	51	85274	32.07	ug/L	99
13) dichlorodifluoromethane	3.802	85	146625	41.55	ug/L	97
14) chloromethane	4.096	50	193117	50.15	ug/L	100
15) vinyl chloride	4.326	62	194763	47.78	ug/L	99
16) bromomethane	4.913	94	107599	67.13	ug/L	95
17) chloroethane	5.071	64	107870	66.27	ug/L	99
18) trichlorofluoromethane	5.501	101	194035	53.23	ug/L	99
20) ethyl ether	5.878	74	82200	53.62	ug/L	89
21) 2-chloropropane	6.051	43	229199	53.59	ug/L	99
22) acrolein	6.114	56	298473	434.77	ug/L	99
23) 1,1-dichloroethene	6.266	96	109625	52.21	ug/L	91
24) acetone	6.334	58	17151	53.62	ug/L	92
25) allyl chloride	6.775	76	66169	50.60	ug/L	97
26) iodomethane	6.534	142	190807	52.62	ug/L	99
27) carbon disulfide	6.654	76	397856	49.48	ug/L	97
28) methylene chloride	6.958	84	130383	51.77	ug/L	98
29) methyl acetate	6.769	43	99360	43.68	ug/L	99
30) 1-chloropropane	6.990	41	57305	54.81	ug/L	95
31) methyl tert butyl ether	7.273	73	771921	100.58	ug/L	99
32) trans-1,2-dichloroethene	7.320	96	116643	52.21	ug/L	98
33) di-isopropyl ether	7.860	45	362795	50.98	ug/L	98
34) ethyl tert-butyl ether	8.321	59	372979	47.96	ug/L	99
35) 2-butanone	8.605	72	19240	57.84	ug/L	91
36) 1,1-dichloroethane	7.881	63	224949	55.49	ug/L	98
37) chloroprene	7.986	53	141509	43.73	ug/L	97
38) acrylonitrile	7.283	53	313893	260.86	ug/L	98
39) vinyl acetate	7.886	86	25089	54.94	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93518.D
Acq On : 16 Aug 2013 10:33 pm
Operator : tamikag
Sample : bs
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 19 16:05:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) ethyl acetate	8.610	45	18657	52.04	ug/L		92
41) 2,2-dichloropropane	8.605	77	161156	48.52	ug/L		100
42) cis-1,2-dichloroethene	8.610	96	131637	55.16	ug/L		99
43) propionitrile	8.678	54	260558	555.27	ug/L		91
44) bromochloromethane	8.919	128	62863	53.86	ug/L		98
45) tetrahydrofuran	8.961	42	55818	53.70	ug/L		98
46) chloroform	8.977	85	131529	52.71	ug/L		97
47) t-butyl formate	9.003	59	127114	53.51	ug/L		99
50) freon 113	6.235	151	66441	40.73	ug/L		92
51) methacrylonitrile	8.867	41	81782	56.42	ug/L		98
52) 1,1,1-trichloroethane	9.218	97	175786	56.93	ug/L		97
53) Cyclohexane	9.281	84	206035	52.43	ug/L		99
54) 2,2,4-trimethylpentane	9.658	57	354049	37.40	ug/L	#	96
55) tert-amyl methyl ether	9.695	87	89021	45.93	ug/L		99
58) epichlorohydrin	11.320	57	79466	270.70	ug/L		93
59) n-butyl alcohol	10.188	56	318868	2785.97	ug/L		96
60) carbon tetrachloride	9.422	117	153417	55.12	ug/L		98
61) 1,1-dichloropropene	9.401	75	155251	50.04	ug/L		99
62) hexane	7.624	57	71532	24.06	ug/L		96
63) benzene	9.658	78	491680	54.49	ug/L		99
65) isopropyl acetate	9.601	43	264039	54.46	ug/L		97
66) 1,2-dichloroethane	9.679	62	161105	54.89	ug/L		98
67) trichloroethene	10.387	95	118292	55.00	ug/L		99
68) 2-nitropropane	11.179	41	50623	52.14	ug/L	#	1
69) 2-chloroethyl vinyl ether	11.195	63	423208	273.10	ug/L		99
70) methyl methacrylate	10.676	100	36283	52.99	ug/L		95
71) 1,2-dichloropropane	10.649	63	132296	54.97	ug/L		99
72) methylcyclohexane	10.597	83	163190	38.33	ug/L		98
73) dibromomethane	10.817	93	75304	53.53	ug/L		96
74) bromodichloromethane	10.948	83	152287	54.85	ug/L		99
75) cis-1,3-dichloropropene	11.415	75	177326	47.84	ug/L		99
77) 4-methyl-2-pentanone	11.514	58	65976	54.61	ug/L	#	6
78) toluene	11.782	92	283477	55.18	ug/L		99
79) 3-methyl-1-butanol	11.551	70	123538	1080.28	ug/L		99
80) trans-1,3-dichloropropene	11.992	75	167666	52.57	ug/L		95
81) ethyl methacrylate	11.992	69	164409	53.90	ug/L		98
82) 1,1,2-trichloroethane	12.201	83	88321	54.83	ug/L		100
83) 2-hexanone	12.385	58	49304	51.78	ug/L		98
85) tetrachloroethene	12.369	166	117292	53.53	ug/L		99
86) 1,3-dichloropropane	12.385	76	176817	53.10	ug/L		99
87) butyl acetate	12.463	56	85188	54.42	ug/L		97
88) 3,3-dimethyl-1-butanol	12.563	57	229481	473.76	ug/L		99
89) dibromochloromethane	12.647	129	115024	53.54	ug/L		98
90) 1,2-dibromoethane	12.794	107	102361	52.76	ug/L		96
91) chlorobenzene	13.260	112	300727	52.65	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.323	131	118779	52.17	ug/L		98
93) ethylbenzene	13.318	91	531402	53.73	ug/L		99
94) m,p-xylene	13.428	106	414165	107.35	ug/L		98
95) o-xylene	13.842	106	213276	53.86	ug/L		97
96) styrene	13.858	104	331531	52.02	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93518.D
Acq On : 16 Aug 2013 10:33 pm
Operator : tamikag
Sample : bs
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 19 16:05:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

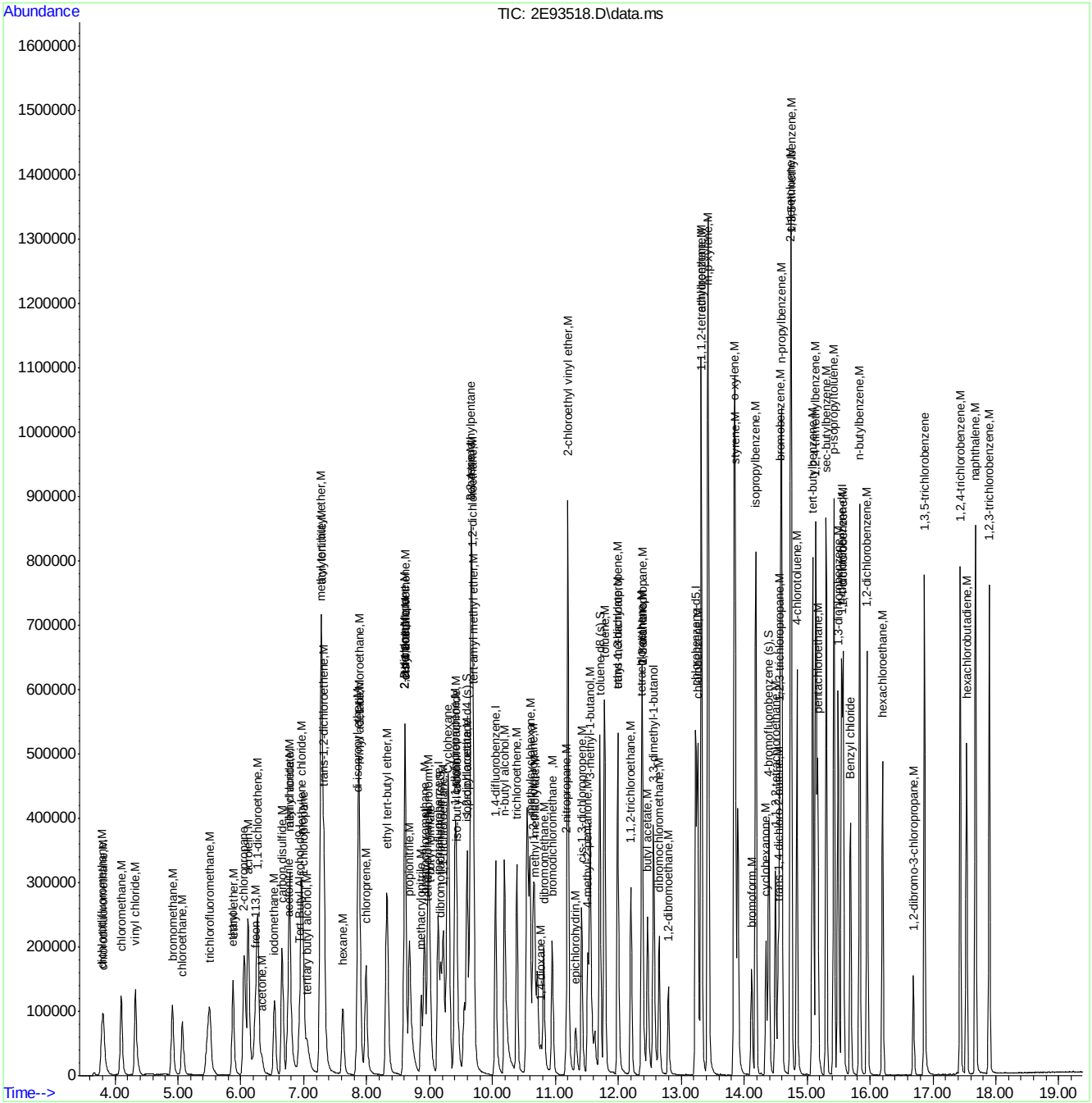
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	bromoform	14.120	173	82064	53.56	ug/L	97
99)	isopropylbenzene	14.183	105	567256	55.74	ug/L	97
101)	bromobenzene	14.582	156	125944	53.31	ug/L	88
102)	cyclohexanone	14.346	55	104506	414.81	ug/L	97
103)	1,1,2,2-tetrachloroethane	14.498	83	162046	54.39	ug/L	99
104)	trans-1,4-dichloro-2-b...	14.540	53	36838	44.49	ug/L	97
105)	1,2,3-trichloropropane	14.566	110	43957	55.12	ug/L	96
106)	n-propylbenzene	14.592	91	641958	56.03	ug/L	99
107)	2-chlorotoluene	14.739	126	128349	53.43	ug/L	93
108)	4-chlorotoluene	14.838	91	373044	51.46	ug/L	98
109)	1,3,5-trimethylbenzene	14.749	105	482154	52.17	ug/L	98
110)	tert-butylbenzene	15.090	119	413814	56.15	ug/L	99
111)	pentachloroethane	15.169	167	93309	54.60	ug/L	96
112)	1,2,4-trimethylbenzene	15.137	105	479701	54.43	ug/L	99
113)	sec-butylbenzene	15.305	105	623758	54.75	ug/L	99
114)	1,3-dichlorobenzene	15.494	146	248470	52.16	ug/L	99
115)	p-isopropyltoluene	15.426	119	532247	56.44	ug/L	98
117)	1,4-dichlorobenzene	15.573	146	256016	50.66	ug/L	97
118)	1,2-dichlorobenzene	15.955	146	261154	52.60	ug/L	100
119)	n-butylbenzene	15.835	92	263944	52.20	ug/L	99
120)	1,2-dibromo-3-chloropr...	16.689	75	37882	52.20	ug/L	96
121)	1,3,5-trichlorobenzene	16.862	180	235089	53.07	ug/L	99
122)	1,2,4-trichlorobenzene	17.434	180	227475	52.11	ug/L	99
123)	hexachlorobutadiene	17.533	225	104551	51.13	ug/L	99
124)	naphthalene	17.675	128	632448	54.84	ug/L	98
125)	1,2,3-trichlorobenzene	17.895	180	220874	55.99	ug/L	98
126)	hexachloroethane	16.202	119	99786	56.99	ug/L	99
127)	Benzyl chloride	15.688	91	286066	44.45	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93518.D
Acq On : 16 Aug 2013 10:33 pm
Operator : tamikag
Sample : bs
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 19 16:05:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93519.D
Acq On : 16 Aug 2013 11:02 pm
Operator : tamikag
Sample : jb44675-2ms
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 19 16:06:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	6.943	65	202409	500.00	ug/L		0.00
7) pentafluorobenzene	9.134	168	212230	50.00	ug/L		0.00
56) 1,4-difluorobenzene	10.046	114	337036	50.00	ug/L		0.00
84) chlorobenzene-d5	13.229	117	274441	50.00	ug/L		0.00
98) 1,4-dichlorobenzene-d4	15.552	152	148162	50.00	ug/L		0.00
System Monitoring Compounds							
48) dibromofluoromethane (s)	9.176	113	98872	49.34	ug/L		0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.68%				
49) 1,2-dichloroethane-d4 (s)	9.596	65	118788	49.31	ug/L		0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 98.62%				
76) toluene-d8 (s)	11.709	98	393761	49.93	ug/L		0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 99.86%				
100) 4-bromofluorobenzene (s)	14.393	95	136966	47.63	ug/L		0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 95.26%				
Target Compounds							Qvalue
2) 1,4-dioxane	10.770	88	51056	1322.73	ug/L	#	96
3) tertiary butyl alcohol	7.053	59	128140	270.56	ug/L		98
4) ethanol	5.758	46	114160	5954.85	ug/L		93
5) acetonitrile	6.749	40	129400	514.00	ug/L		95
6) iso-butyl alcohol	9.438	41	61537	524.77	ug/L		98
12) chlorodifluoromethane	3.818	51	128280	47.73	ug/L		97
13) dichlorodifluoromethane	3.797	85	158879	44.55	ug/L		100
14) chloromethane	4.101	50	221191	56.83	ug/L		98
15) vinyl chloride	4.326	62	240895	58.47	ug/L		98
16) bromomethane	4.908	94	100072	61.71	ug/L		97
17) chloroethane	5.071	64	99433	60.38	ug/L		96
18) trichlorofluoromethane	5.501	101	198567	53.89	ug/L		95
20) ethyl ether	5.873	74	72887	47.04	ug/L		98
21) 2-chloropropane	6.051	43	221777	51.31	ug/L		98
22) acrolein	6.114	56	313144	451.31	ug/L		97
23) 1,1-dichloroethene	6.271	96	105560	49.74	ug/L		97
24) acetone	6.329	58	16162	49.99	ug/L		100
25) allyl chloride	6.775	76	63117	47.76	ug/L		98
26) iodomethane	6.534	142	184001	50.20	ug/L		99
27) carbon disulfide	6.659	76	396527	48.79	ug/L		99
28) methylene chloride	6.964	84	121275	47.64	ug/L		99
29) methyl acetate	6.775	43	89451	38.91	ug/L		100
30) 1-chloropropane	6.990	41	54268	51.36	ug/L		97
31) methyl tert butyl ether	7.278	73	372631	48.04	ug/L		99
32) trans-1,2-dichloroethene	7.325	96	113310	50.18	ug/L		96
33) di-isopropyl ether	7.860	45	369953	51.44	ug/L		98
34) ethyl tert-butyl ether	8.322	59	393537	50.07	ug/L		99
35) 2-butanone	8.605	72	17400	51.75	ug/L		78
36) 1,1-dichloroethane	7.881	63	209450	51.12	ug/L		99
37) chloroprene	7.986	53	173278	52.98	ug/L		97
38) acrylonitrile	7.283	53	282350	232.16	ug/L		100
39) vinyl acetate	7.886	86	17882	38.74	ug/L		85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93519.D
Acq On : 16 Aug 2013 11:02 pm
Operator : tamikag
Sample : jb44675-2ms
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 19 16:06:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) ethyl acetate	8.610	45	15298	42.22	ug/L		65
41) 2,2-dichloropropane	8.605	77	146574	43.66	ug/L		99
42) cis-1,2-dichloroethene	8.610	96	124148	51.47	ug/L		97
43) propionitrile	8.678	54	229490	483.88	ug/L		99
44) bromochloromethane	8.914	128	58116	49.27	ug/L		97
45) tetrahydrofuran	8.961	42	43847	41.26	ug/L		93
46) chloroform	8.977	85	125226	49.65	ug/L		99
50) freon 113	6.240	151	72968	44.26	ug/L		93
51) methacrylonitrile	8.867	41	73802	50.38	ug/L		96
52) 1,1,1-trichloroethane	9.218	97	170578	54.65	ug/L		98
53) Cyclohexane	9.286	84	180329	45.40	ug/L		91
54) 2,2,4-trimethylpentane	9.659	57	393032	41.08	ug/L	#	98
55) tert-amyl methyl ether	9.695	87	89941	45.91	ug/L		97
58) epichlorohydrin	11.342	57	16305	54.49	ug/L		96
59) n-butyl alcohol	10.188	56	300069	2571.93	ug/L		98
60) carbon tetrachloride	9.423	117	146458	51.62	ug/L		98
61) 1,1-dichloropropene	9.402	75	158584	50.15	ug/L		98
62) hexane	7.619	57	119499	39.44	ug/L		98
63) benzene	9.659	78	464232	50.47	ug/L		99
64) heptane	9.842	57	67867	39.86	ug/L		98
65) isopropyl acetate	9.601	43	212018	42.90	ug/L		100
66) 1,2-dichloroethane	9.679	62	147494	49.29	ug/L		98
67) trichloroethene	10.387	95	110995	50.63	ug/L		99
68) 2-nitropropane	11.174	41	32129	32.46	ug/L	#	55
70) methyl methacrylate	10.676	100	32628	46.75	ug/L		97
71) 1,2-dichloropropane	10.649	63	121736	49.62	ug/L		97
72) methylcyclohexane	10.597	83	183839	42.36	ug/L		99
73) dibromomethane	10.812	93	67756	47.25	ug/L		94
74) bromodichloromethane	10.948	83	144779	51.16	ug/L		98
75) cis-1,3-dichloropropene	11.415	75	174759	46.25	ug/L		99
77) 4-methyl-2-pentanone	11.515	58	58765	47.72	ug/L		99
78) toluene	11.777	92	272103	51.96	ug/L		99
79) 3-methyl-1-butanol	11.551	70	117652	1009.27	ug/L		99
80) trans-1,3-dichloropropene	11.992	75	152985	47.05	ug/L		96
81) ethyl methacrylate	11.992	69	152302	48.98	ug/L		97
82) 1,1,2-trichloroethane	12.201	83	78934	48.07	ug/L		99
83) 2-hexanone	12.390	58	45856	47.24	ug/L		96
85) tetrachloroethene	12.369	166	110064	49.92	ug/L		100
86) 1,3-dichloropropane	12.380	76	163465	48.78	ug/L		99
87) butyl acetate	12.464	56	65254	41.43	ug/L		99
88) 3,3-dimethyl-1-butanol	12.558	57	223773	459.09	ug/L		99
89) dibromochloromethane	12.647	129	104851	48.50	ug/L		98
90) 1,2-dibromoethane	12.794	107	93598	47.94	ug/L		95
91) chlorobenzene	13.260	112	281450	48.97	ug/L		97
92) 1,1,1,2-tetrachloroethane	13.318	131	113553	49.56	ug/L		96
93) ethylbenzene	13.318	91	502301	50.47	ug/L		98
94) m,p-xylene	13.428	106	391778	100.91	ug/L		99
95) o-xylene	13.842	106	202566	50.84	ug/L		98
96) styrene	13.858	104	306675	47.82	ug/L		99
97) bromoform	14.115	173	74894	48.57	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93519.D
Acq On : 16 Aug 2013 11:02 pm
Operator : tamikag
Sample : jb44675-2ms
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 19 16:06:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

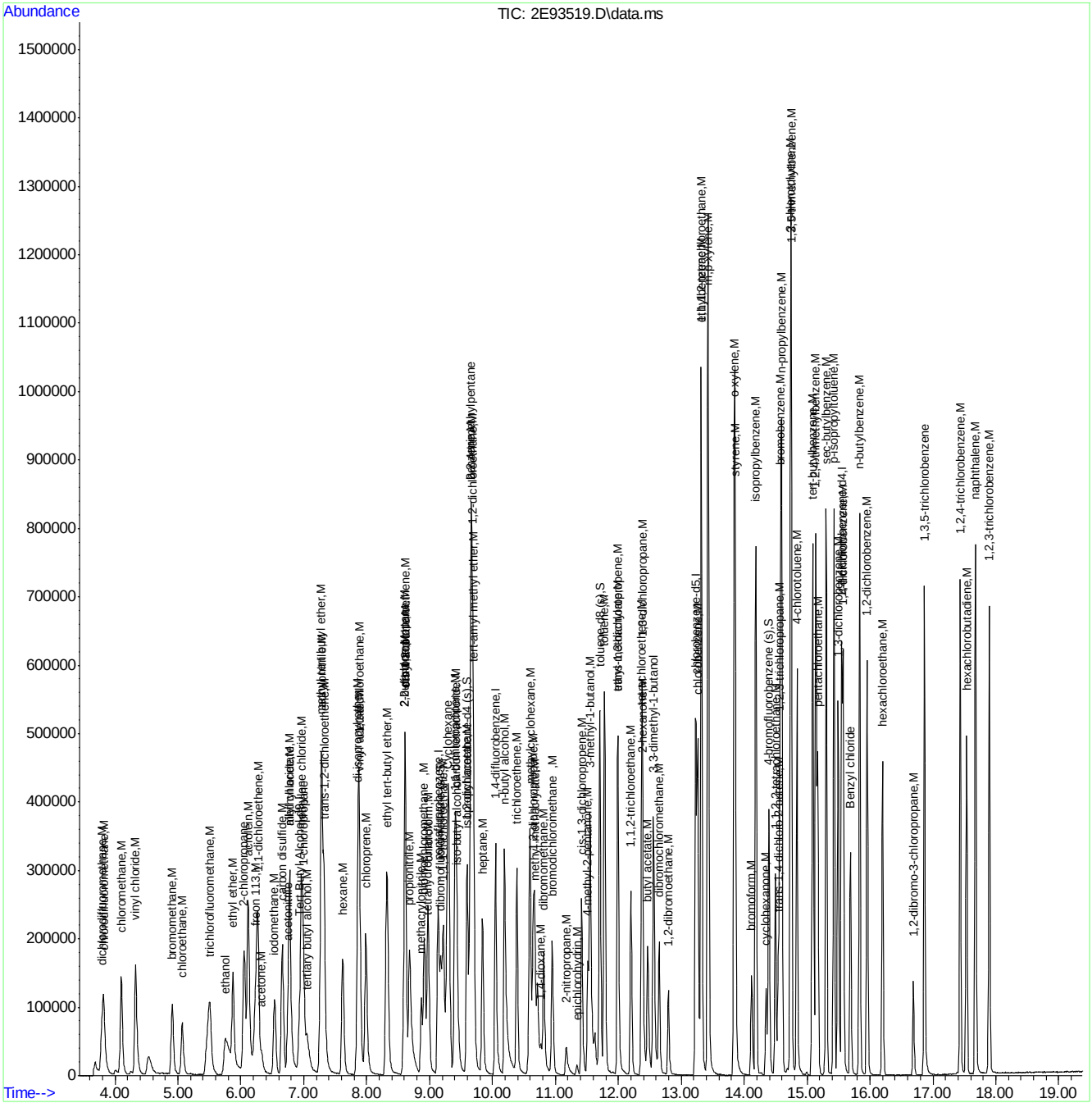
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) isopropylbenzene	14.183	105	543360	53.35	ug/L	98
101) bromobenzene	14.582	156	117806	49.82	ug/L	90
102) cyclohexanone	14.346	55	65327	254.26	ug/L	100
103) 1,1,2,2-tetrachloroethane	14.498	83	149940	50.25	ug/L	99
104) trans-1,4-dichloro-2-b...	14.540	53	32415	39.12	ug/L	95
105) 1,2,3-trichloropropane	14.566	110	39881	49.91	ug/L	99
106) n-propylbenzene	14.592	91	593392	51.75	ug/L	99
107) 2-chlorotoluene	14.739	126	121092	50.37	ug/L	92
108) 4-chlorotoluene	14.839	91	352825	48.64	ug/L	99
109) 1,3,5-trimethylbenzene	14.749	105	455829	49.28	ug/L	99
110) tert-butylbenzene	15.090	119	396925	53.81	ug/L	100
111) pentachloroethane	15.169	167	89237	52.18	ug/L	98
112) 1,2,4-trimethylbenzene	15.137	105	446747	50.65	ug/L	100
113) sec-butylbenzene	15.305	105	600554	52.67	ug/L	99
114) 1,3-dichlorobenzene	15.494	146	230432	48.34	ug/L	98
115) p-isopropyltoluene	15.426	119	487106	51.61	ug/L	98
117) 1,4-dichlorobenzene	15.573	146	236832	46.83	ug/L	98
118) 1,2-dichlorobenzene	15.955	146	240497	48.40	ug/L	99
119) n-butylbenzene	15.835	92	246492	48.71	ug/L	98
120) 1,2-dibromo-3-chloropr...	16.689	75	33977	46.78	ug/L	99
121) 1,3,5-trichlorobenzene	16.862	180	213643	48.19	ug/L	100
122) 1,2,4-trichlorobenzene	17.434	180	207018	47.38	ug/L	99
123) hexachlorobutadiene	17.534	225	100128	48.93	ug/L	96
124) naphthalene	17.675	128	575744	49.88	ug/L	98
125) 1,2,3-trichlorobenzene	17.895	180	202074	51.18	ug/L	98
126) hexachloroethane	16.197	119	97340	55.55	ug/L	98
127) Benzyl chloride	15.688	91	235852	36.62	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93519.D
Acq On : 16 Aug 2013 11:02 pm
Operator : tamikag
Sample : jb44675-2ms
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 19 16:06:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93520.D
Acq On : 16 Aug 2013 11:30 pm
Operator : tamikag
Sample : jb44675-2msd
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 19 16:05:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	6.943	65	214771	500.00	ug/L		0.00
7) pentafluorobenzene	9.139	168	218514	50.00	ug/L		0.00
56) 1,4-difluorobenzene	10.046	114	343556	50.00	ug/L		0.00
84) chlorobenzene-d5	13.229	117	281721	50.00	ug/L		0.00
98) 1,4-dichlorobenzene-d4	15.552	152	151031	50.00	ug/L		0.00
System Monitoring Compounds							
48) dibromofluoromethane (s)	9.176	113	101046	48.97	ug/L		0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 97.94%				
49) 1,2-dichloroethane-d4 (s)	9.590	65	121157	48.85	ug/L		0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 97.70%				
76) toluene-d8 (s)	11.703	98	398481	49.57	ug/L		0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 99.14%				
100) 4-bromofluorobenzene (s)	14.393	95	139306	47.52	ug/L		0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 95.04%				
Target Compounds							Qvalue
2) 1,4-dioxane	10.770	88	51185	1249.75	ug/L	#	96
3) tertiary butyl alcohol	7.053	59	126707	252.14	ug/L		99
4) ethanol	5.758	46	118567	5826.85	ug/L		92
5) acetonitrile	6.759	40	126741	474.46	ug/L		95
6) iso-butyl alcohol	9.444	41	60242	484.16	ug/L	#	97
12) chlorodifluoromethane	3.823	51	117102	42.32	ug/L		98
13) dichlorodifluoromethane	3.802	85	153512	41.81	ug/L		99
14) chloromethane	4.106	50	217872	54.37	ug/L		99
15) vinyl chloride	4.332	62	239089	56.36	ug/L		98
16) bromomethane	4.914	94	98440	58.92	ug/L		97
17) chloroethane	5.071	64	99406	58.61	ug/L		97
18) trichlorofluoromethane	5.501	101	197215	51.99	ug/L		95
20) ethyl ether	5.878	74	72120	45.20	ug/L		98
21) 2-chloropropane	6.057	43	222451	49.98	ug/L		98
22) acrolein	6.119	56	317235	444.05	ug/L		99
23) 1,1-dichloroethene	6.271	96	102933	47.11	ug/L		92
24) acetone	6.334	58	16331	49.06	ug/L		94
25) allyl chloride	6.775	76	62638	46.03	ug/L		97
26) iodomethane	6.539	142	178361	47.26	ug/L		98
27) carbon disulfide	6.659	76	385204	46.04	ug/L		99
28) methylene chloride	6.964	84	119922	45.75	ug/L		97
29) methyl acetate	6.775	43	87020	36.76	ug/L		99
30) 1-chloropropane	6.995	41	56049	51.52	ug/L		91
31) methyl tert butyl ether	7.278	73	371981	46.58	ug/L		99
32) trans-1,2-dichloroethene	7.325	96	113379	48.77	ug/L		94
33) di-isopropyl ether	7.860	45	360639	48.70	ug/L		99
34) ethyl tert-butyl ether	8.322	59	381249	47.11	ug/L		98
35) 2-butanone	8.605	72	17108	49.42	ug/L		74
36) 1,1-dichloroethane	7.881	63	208000	49.30	ug/L		100
37) chloroprene	7.991	53	162370	48.21	ug/L		97
38) acrylonitrile	7.283	53	282347	225.48	ug/L		96
39) vinyl acetate	7.886	86	18022	37.92	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93520.D
Acq On : 16 Aug 2013 11:30 pm
Operator : tamikag
Sample : jb44675-2msd
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 19 16:05:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) ethyl acetate	8.610	45	15191	40.72	ug/L		45
41) 2,2-dichloropropane	8.605	77	144377	41.77	ug/L		98
42) cis-1,2-dichloroethene	8.615	96	122754	49.43	ug/L		100
43) propionitrile	8.678	54	228670	468.29	ug/L		98
44) bromochloromethane	8.919	128	58929	48.52	ug/L		99
45) tetrahydrofuran	8.966	42	43695	39.87	ug/L		93
46) chloroform	8.977	85	123987	47.75	ug/L		99
50) freon 113	6.240	151	66657	39.27	ug/L		92
51) methacrylonitrile	8.867	41	72887	48.32	ug/L		98
52) 1,1,1-trichloroethane	9.218	97	167476	52.12	ug/L		98
53) Cyclohexane	9.286	84	177905	43.50	ug/L		91
54) 2,2,4-trimethylpentane	9.658	57	357304	36.27	ug/L	#	97
55) tert-amyl methyl ether	9.695	87	87449	43.36	ug/L		99
58) epichlorohydrin	11.342	57	14417	47.26	ug/L		97
59) n-butyl alcohol	10.193	56	307254	2583.54	ug/L		97
60) carbon tetrachloride	9.417	117	144328	49.91	ug/L		99
61) 1,1-dichloropropene	9.407	75	158296	49.10	ug/L		96
62) hexane	7.624	57	108460	35.11	ug/L		99
63) benzene	9.664	78	462601	49.34	ug/L		99
64) heptane	9.842	57	62921	36.25	ug/L		99
65) isopropyl acetate	9.601	43	204182	40.53	ug/L		100
66) 1,2-dichloroethane	9.685	62	145797	47.80	ug/L		98
67) trichloroethene	10.387	95	111258	49.79	ug/L		99
68) 2-nitropropane	11.174	41	31635	31.36	ug/L	#	61
70) methyl methacrylate	10.676	100	32604	45.83	ug/L		98
71) 1,2-dichloropropane	10.649	63	121216	48.47	ug/L		96
72) methylcyclohexane	10.597	83	172557	39.01	ug/L		99
73) dibromomethane	10.817	93	67080	45.89	ug/L		97
74) bromodichloromethane	10.948	83	140860	48.83	ug/L		98
75) cis-1,3-dichloropropene	11.420	75	173641	45.08	ug/L		98
77) 4-methyl-2-pentanone	11.520	58	58449	46.56	ug/L		99
78) toluene	11.777	92	269622	50.51	ug/L		99
79) 3-methyl-1-butanol	11.551	70	116965	984.34	ug/L		99
80) trans-1,3-dichloropropene	11.992	75	152218	45.93	ug/L		95
81) ethyl methacrylate	11.992	69	153253	48.35	ug/L		98
82) 1,1,2-trichloroethane	12.201	83	79077	47.24	ug/L		95
83) 2-hexanone	12.390	58	50968	51.51	ug/L		96
85) tetrachloroethene	12.374	166	109235	48.26	ug/L		96
86) 1,3-dichloropropane	12.385	76	161285	46.89	ug/L		98
87) butyl acetate	12.469	56	62841	38.86	ug/L		98
88) 3,3-dimethyl-1-butanol	12.563	57	219455	438.59	ug/L		98
89) dibromochloromethane	12.647	129	104013	46.87	ug/L		99
90) 1,2-dibromoethane	12.794	107	93010	46.41	ug/L		95
91) chlorobenzene	13.260	112	279682	47.41	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.323	131	112650	47.90	ug/L		94
93) ethylbenzene	13.318	91	498578	48.80	ug/L		99
94) m,p-xylene	13.428	106	388508	97.49	ug/L		99
95) o-xylene	13.842	106	203143	49.67	ug/L		98
96) styrene	13.858	104	302874	46.00	ug/L		99
97) bromoform	14.120	173	72802	46.00	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93520.D
Acq On : 16 Aug 2013 11:30 pm
Operator : tamikag
Sample : jb44675-2msd
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 19 16:05:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

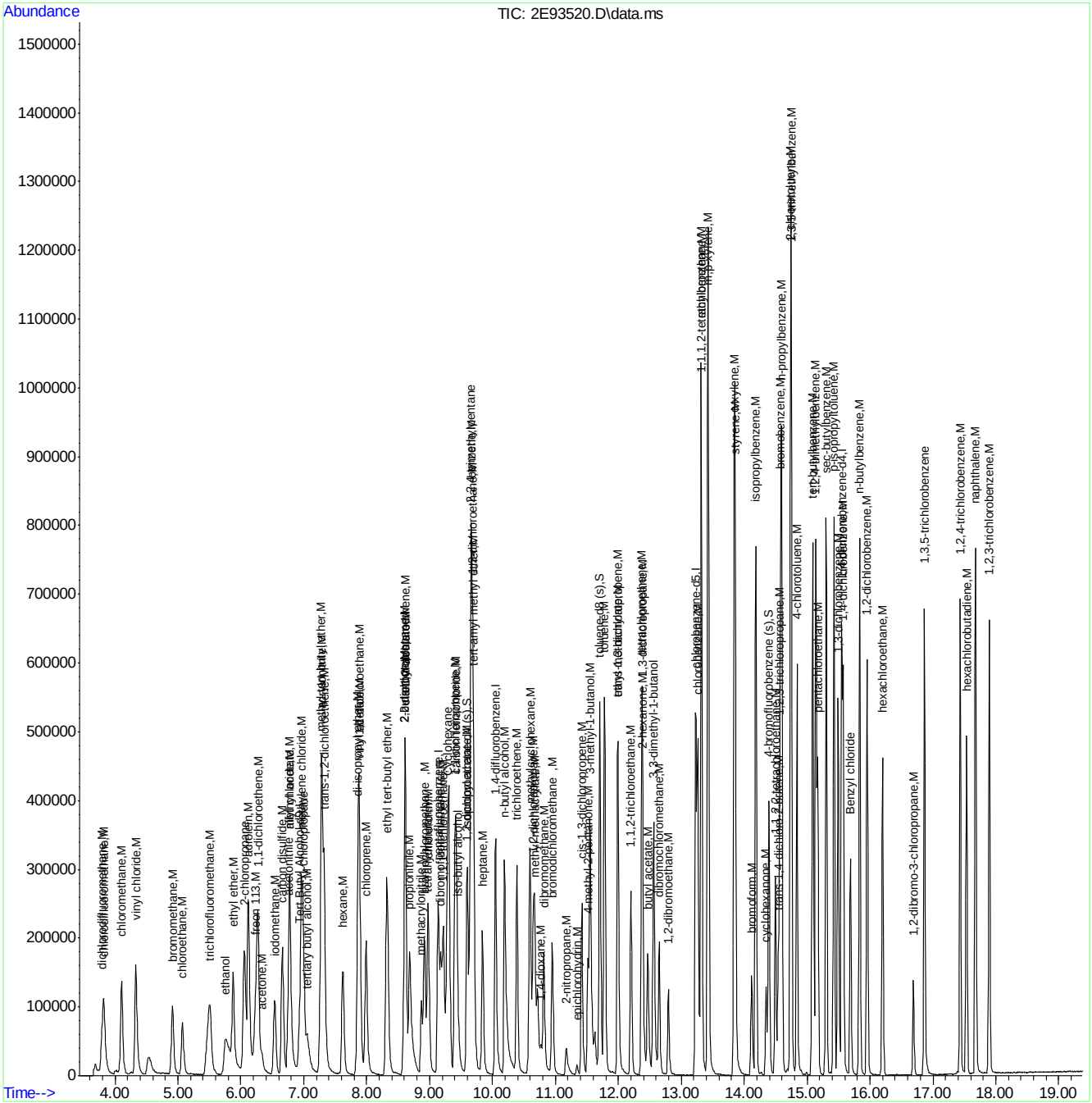
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) isopropylbenzene	14.183	105	534696	51.50	ug/L	99
101) bromobenzene	14.582	156	116074	48.16	ug/L	83
102) cyclohexanone	14.346	55	64982	247.97	ug/L	97
103) 1,1,2,2-tetrachloroethane	14.498	83	149089	49.00	ug/L	97
104) trans-1,4-dichloro-2-b...	14.540	53	32380	38.34	ug/L	94
105) 1,2,3-trichloropropane	14.566	110	39866	48.93	ug/L	96
106) n-propylbenzene	14.592	91	585491	50.09	ug/L	99
107) 2-chlorotoluene	14.739	126	119844	48.90	ug/L	94
108) 4-chlorotoluene	14.839	91	345892	46.77	ug/L	99
109) 1,3,5-trimethylbenzene	14.749	105	452993	48.05	ug/L	98
110) tert-butylbenzene	15.090	119	394328	52.44	ug/L	100
111) pentachloroethane	15.169	167	88756	50.91	ug/L	98
112) 1,2,4-trimethylbenzene	15.137	105	440087	48.95	ug/L	100
113) sec-butylbenzene	15.305	105	590181	50.78	ug/L	100
114) 1,3-dichlorobenzene	15.494	146	225783	46.46	ug/L	99
115) p-isopropyltoluene	15.426	119	483766	50.29	ug/L	99
117) 1,4-dichlorobenzene	15.573	146	233156	45.23	ug/L	98
118) 1,2-dichlorobenzene	15.955	146	239168	47.22	ug/L	100
119) n-butylbenzene	15.835	92	239322	46.39	ug/L	99
120) 1,2-dibromo-3-chloropr...	16.689	75	34593	46.72	ug/L	93
121) 1,3,5-trichlorobenzene	16.862	180	208309	46.10	ug/L	100
122) 1,2,4-trichlorobenzene	17.434	180	203687	45.74	ug/L	100
123) hexachlorobutadiene	17.534	225	97669	46.82	ug/L	98
124) naphthalene	17.675	128	578423	49.16	ug/L	99
125) 1,2,3-trichlorobenzene	17.895	180	199292	49.52	ug/L	96
126) hexachloroethane	16.202	119	95576	53.50	ug/L	98
127) Benzyl chloride	15.688	91	224594	34.21	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93520.D
Acq On : 16 Aug 2013 11:30 pm
Operator : tamikag
Sample : jb44675-2msd
Misc : MS53257,V2E4207,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

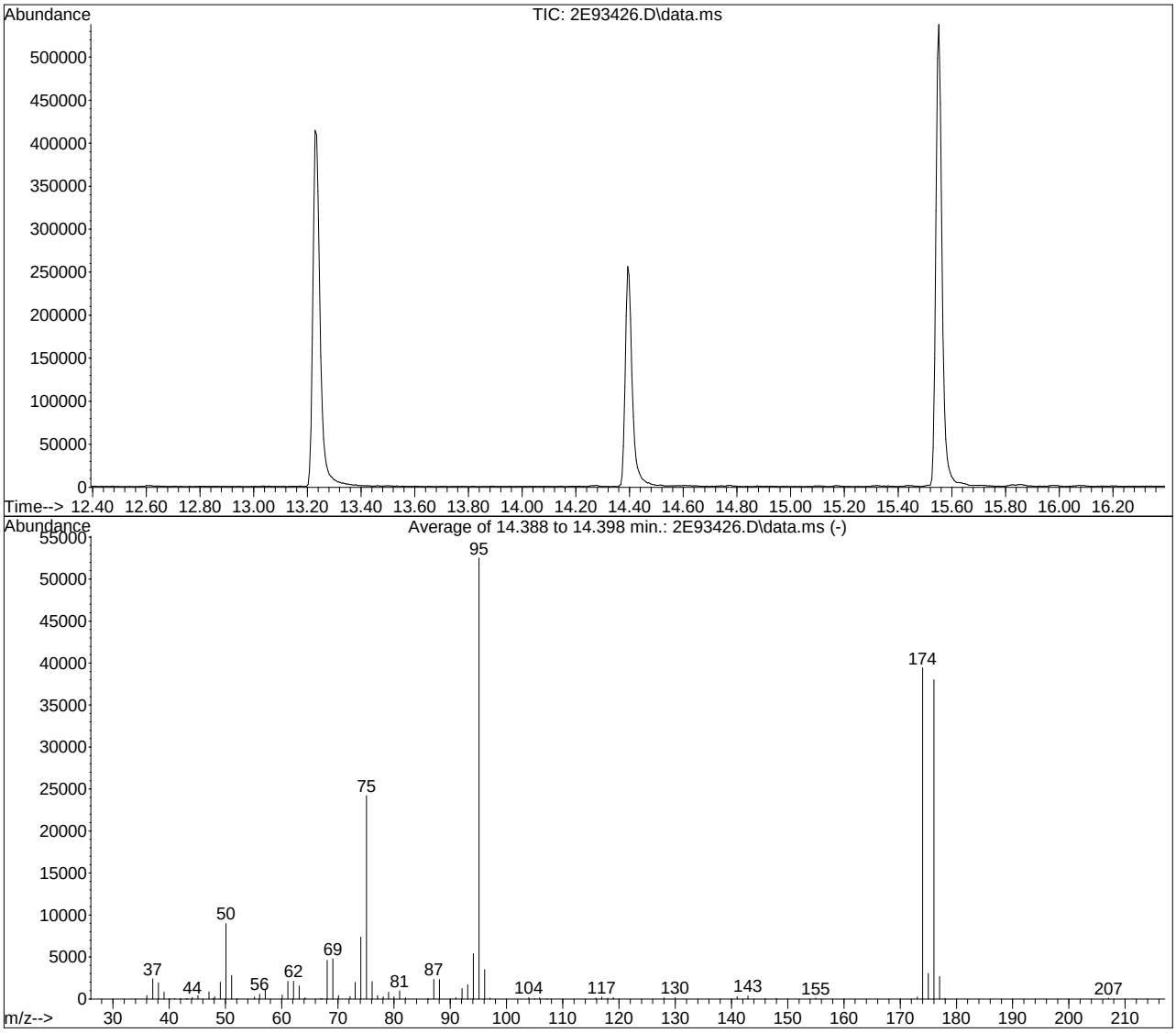
Quant Time: Aug 19 16:05:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2E93426.D Vial: 1
Acq On : 14 Aug 2013 9:48 am Operator: tamikag
Sample : bfb Inst : ms2e
Misc : MS53100,V2E4202,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E4202.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2092, 2093, 2094; Background Corrected with Scan 2084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	8966	PASS
75	95	30	60	46.1	24208	PASS
95	95	100	100	100.0	52504	PASS
96	95	5	9	6.7	3502	PASS
173	174	0.00	2	0.6	217	PASS
174	95	50	120	75.1	39429	PASS
175	174	5	9	7.7	3044	PASS
176	174	95	101	96.4	38008	PASS
177	176	5	9	7.0	2677	PASS

2E93426.D M2E4202.M Thu Aug 15 10:12:45 2013 MS2E

Average of 14.388 to 14.398 min.: 2E93426.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	408	47.10	851	61.10	2100	74.10	7373
37.10	2390	47.80	68	62.10	2119	75.10	24208
38.10	1934	48.10	269	63.10	1532	76.10	2061
39.10	816	49.10	1990	64.15	160	77.05	406
40.10	43	50.10	8966	66.90	39	78.05	255
41.00	42	51.10	2794	67.20	40	79.00	814
42.00	39	52.10	41	68.10	4607	80.00	257
43.00	55	55.15	222	69.10	4780	81.00	952
43.20	36	56.10	555	70.10	407	82.05	146
44.10	162	57.10	1153	72.15	298	86.10	44
45.10	417	60.10	464	73.10	1987	87.05	2355

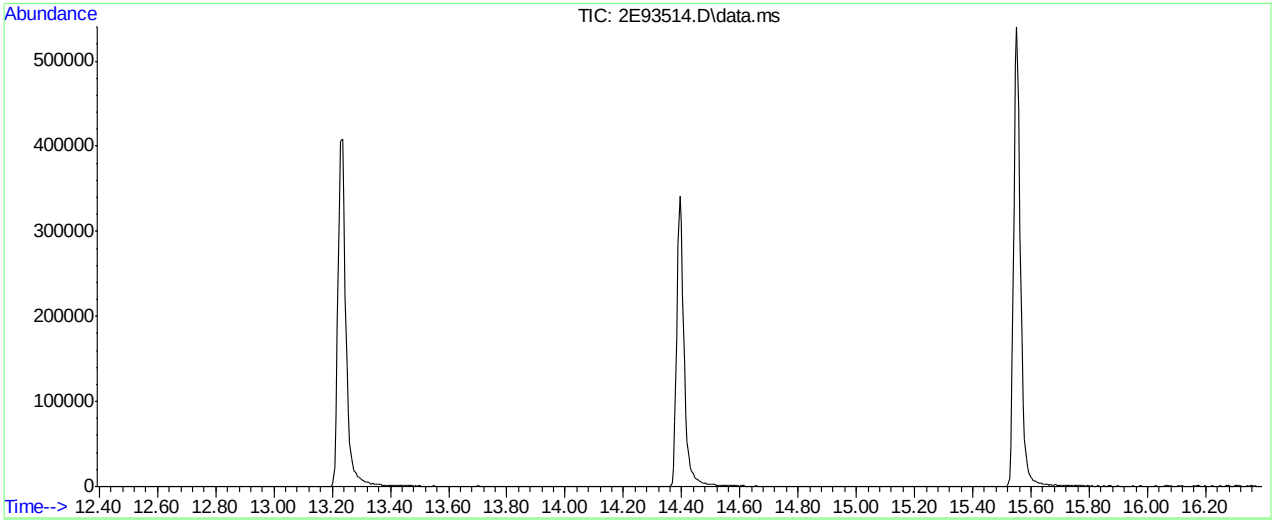
Average of 14.388 to 14.398 min.: 2E93426.D\data.ms
bfb
Modified:subtracted

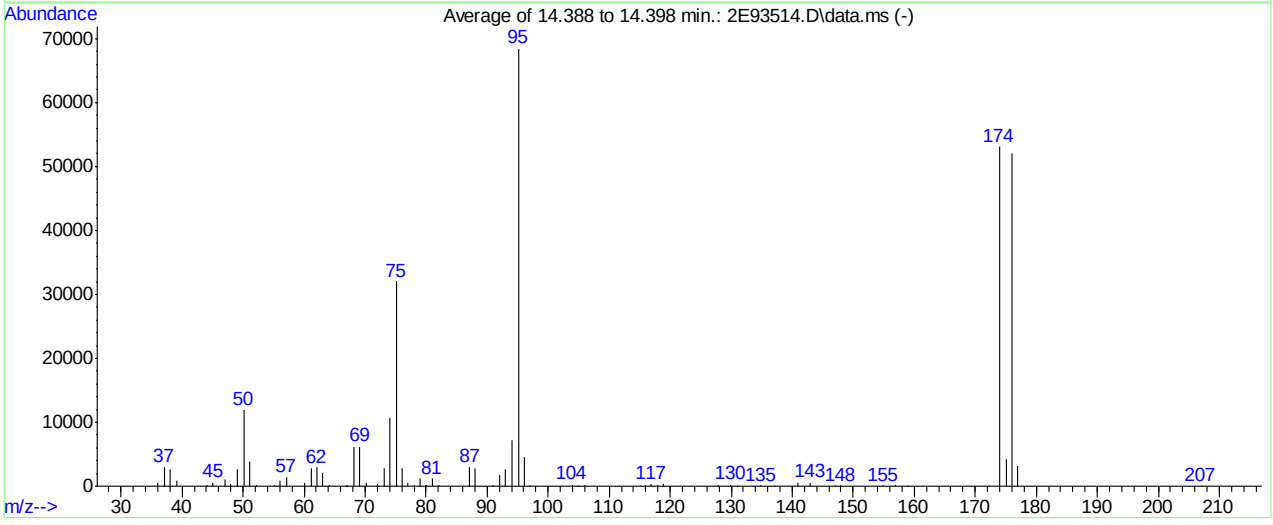
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.05	2308	107.20	37	155.00	108		
91.00	173	115.90	100	173.05	217		
92.10	1231	116.95	216	174.00	39429		
93.10	1712	118.00	95	175.00	3044		
94.10	5402	119.00	174	176.00	38008		
95.10	52504	128.00	125	177.00	2677		
96.10	3502	129.95	144	177.90	35		
97.05	120	141.00	258	207.05	79		
103.95	174	142.95	357				
105.00	40	146.00	38				
105.90	135	147.95	88				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2E\V2E4206-09\2E93514.D Vial: 25
Acq On : 16 Aug 2013 8:37 pm Operator: tamikag
Sample : bfb Inst : ms2e
Misc : MS53156,V2E4207,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E4202.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM





AutoFind: Scans 2092, 2093, 2094; Background Corrected with Scan 2084

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	11846	PASS
75	95	30	60	46.8	32053	PASS
95	95	100	100	100.0	68469	PASS
96	95	5	9	6.8	4644	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	77.5	53085	PASS
175	174	5	9	7.8	4160	PASS
176	174	95	101	98.2	52152	PASS
177	176	5	9	6.2	3234	PASS

2E93514.D M2E4202.M Mon Aug 19 16:03:59 2013 ACCNJ

Average of 14.388 to 14.398 min.: 2E93514.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	521	51.10	3785	67.10	149	79.00	1322
37.10	3047	52.10	205	68.10	6090	79.90	126
38.10	2585	55.10	115	69.10	6192	80.05	238
39.10	947	56.10	890	70.10	489	81.00	1161
40.05	79	57.10	1409	72.05	349	82.05	253
44.10	175	60.10	538	73.10	2761	86.00	35
45.10	542	61.10	2844	74.10	10620	87.10	3053
47.10	974	62.10	2936	75.10	32053	88.05	2864
48.05	356	63.10	2027	76.10	2762	91.00	173
49.10	2567	64.05	242	77.05	485	92.05	1772
50.10	11846	66.90	37	78.05	268	93.05	2606

Average of 14.388 to 14.398 min.: 2E93514.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	7245	118.95	288	154.95	158		
95.10	68469	127.95	206	157.00	96		
96.10	4644	129.95	222	158.90	41		
97.05	103	131.00	46	172.10	73		
104.00	219	134.95	116	174.00	53085		
105.00	33	137.10	41	175.05	4160		
105.95	194	140.00	36	176.00	52152		
115.00	34	141.00	536	177.00	3234		
116.00	191	143.00	544	207.00	45		
116.95	311	146.95	72				
117.95	156	147.95	157				

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 08/19/13 08:52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93428.D
Acq On : 14 Aug 2013 10:47 am
Operator : tamikag
Sample : ic4202-1
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 10:03:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:57:14 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	6.937	65	216170	500.00	ug/L		0.00
7) pentafluorobenzene	9.140	168	197310	50.00	ug/L		0.00
56) 1,4-difluorobenzene	10.047	114	298599	50.00	ug/L		0.00
84) chlorobenzene-d5	13.234	117	237542	50.00	ug/L		0.00
98) 1,4-dichlorobenzene-d4	15.552	152	134956	50.00	ug/L		0.00
System Monitoring Compounds							
48) dibromofluoromethane (s)	9.192	113	2116	1.14	ug/L		0.01
Spiked Amount 50.000	Range 79 - 117		Recovery =	2.28%#			
49) 1,2-dichloroethane-d4 (s)	9.622	65	2605	1.16	ug/L		0.03
Spiked Amount 50.000	Range 72 - 123		Recovery =	2.32%#			
76) toluene-d8 (s)	11.740	98	7939	1.14	ug/L		0.03
Spiked Amount 50.000	Range 82 - 118		Recovery =	2.28%#			
100) 4-bromofluorobenzene (s)	14.424	95	3268	1.25	ug/L		0.03
Spiked Amount 50.000	Range 75 - 118		Recovery =	2.50%#			
Target Compounds							Qvalue
3) tertiary butyl alcohol	7.063	59	2919	5.78	ug/L		74
4) ethanol	5.779	46	3839m	90.17	ug/L		
5) acetonitrile	6.770	40	3150	11.72	ug/L		98
12) chlorodifluoromethane	3.813	51	2686	1.07	ug/L		85
13) dichlorodifluoromethane	3.797	85	3659	1.10	ug/L		87
14) chloromethane	4.090	50	4429	1.22	ug/L		99
15) vinyl chloride	4.311	62	4356	1.14	ug/L		86
16) bromomethane	4.919	94	2107	1.21	ug/L		95
17) chloroethane	5.076	64	2191	1.22	ug/L		93
18) trichlorofluoromethane	5.511	101	3970	1.16	ug/L		92
20) ethyl ether	5.894	74	1732	1.20	ug/L	#	74
21) 2-chloropropane	6.067	43	4614	1.15	ug/L	#	84
22) acrolein	6.151	56	7513	11.65	ug/L		96
23) 1,1-dichloroethene	6.287	96	2410	1.22	ug/L		82
25) allyl chloride	6.780	76	1452	1.15	ug/L	#	80
26) iodomethane	6.549	142	3709	1.09	ug/L		96
27) carbon disulfide	6.675	76	8921	1.18	ug/L		90
28) methylene chloride	6.969	84	2614	1.10	ug/L		93
29) methyl acetate	6.812	43	2506m	1.20	ug/L		
30) 1-chloropropane	7.006	41	971	0.99	ug/L	#	76
31) methyl tert butyl ether	7.289	73	8232	1.14	ug/L		89
32) trans-1,2-dichloroethene	7.346	96	2433	1.16	ug/L		82
33) di-isopropyl ether	7.881	45	7033	1.05	ug/L		95
34) ethyl tert-butyl ether	8.343	59	8372	1.15	ug/L		95
36) 1,1-dichloroethane	7.892	63	4173	1.10	ug/L		91
37) chloroprene	8.023	53	3165	1.08	ug/L		84
38) acrylonitrile	7.341	53	6785	6.20	ug/L		94
41) 2,2-dichloropropane	8.610	77	3689	1.18	ug/L		93
42) cis-1,2-dichloroethene	8.641	96	2542	1.13	ug/L	#	67
43) propionitrile	8.762	54	4631	10.50	ug/L		70
44) bromochloromethane	8.940	128	1158	1.06	ug/L	#	82
46) chloroform	8.998	85	2786	1.19	ug/L		99
47) t-butyl formate	9.035	59	2123	0.95	ug/L		79
50) freon 113	6.256	151	1632	1.06	ug/L		75
52) 1,1,1-trichloroethane	9.234	97	3024	1.04	ug/L		82
53) Cyclohexane	9.286	84	3993	1.08	ug/L	#	52
54) 2,2,4-trimethylpentane	9.664	57	9651	1.09	ug/L	#	91
55) tert-amyl methyl ether	9.716	87	2224	1.22	ug/L	#	72
60) carbon tetrachloride	9.428	117	2894	1.15	ug/L		95
61) 1,1-dichloropropene	9.428	75	3193	1.14	ug/L		97
62) hexane	7.645	57	2785	1.04	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93428.D
Acq On : 14 Aug 2013 10:47 am
Operator : tamikag
Sample : ic4202-1
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 10:03:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:57:14 2013
Response via : Initial Calibration

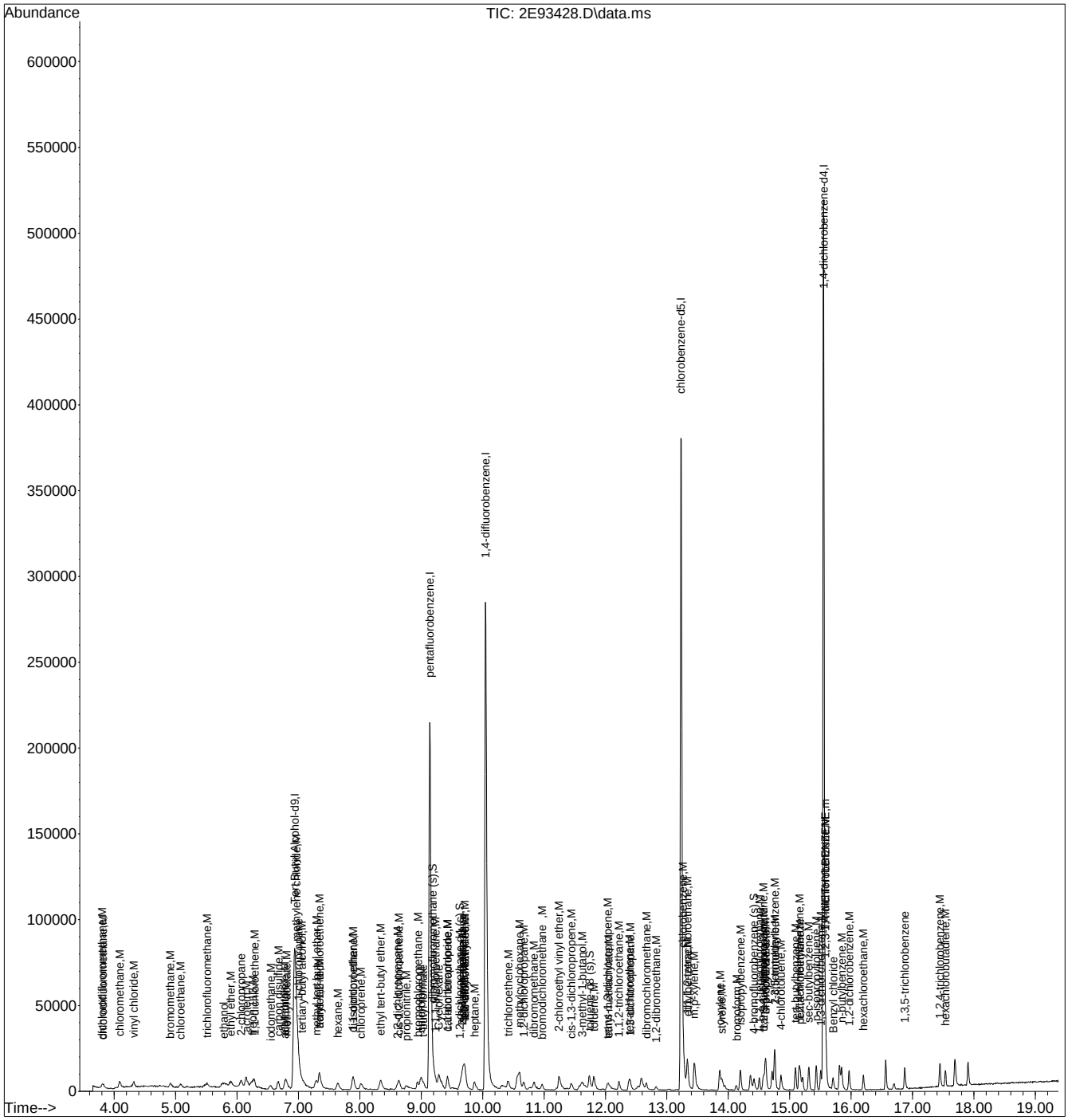
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
63) benzene	9.690	78	9169	1.13	ug/L		98
64) heptane	9.863	57	1576	1.04	ug/L		81
65) isopropyl acetate	9.664	43	4036	0.92	ug/L	#	79
66) 1,2-dichloroethane	9.711	62	3028	1.14	ug/L		85
67) trichloroethene	10.424	95	2135	1.10	ug/L	#	70
69) 2-chloroethyl vinyl ether	11.247	63	7167	5.12	ug/L		92
71) 1,2-dichloropropane	10.676	63	2370	1.09	ug/L		93
72) methylcyclohexane	10.608	83	4382	1.14	ug/L		86
73) dibromomethane	10.833	93	1475	1.16	ug/L		96
74) bromodichloromethane	10.964	83	2873	1.15	ug/L		90
75) cis-1,3-dichloropropene	11.446	75	3720	1.11	ug/L		92
78) toluene	11.808	92	4980	1.07	ug/L		86
79) 3-methyl-1-butanol	11.619	70	1780	16.94	ug/L	#	76
80) trans-1,3-dichloropropene	12.028	75	3274	1.14	ug/L	#	71
81) ethyl methacrylate	12.055	69	2553	0.92	ug/L		91
82) 1,1,2-trichloroethane	12.217	83	1681	1.16	ug/L		93
85) tetrachloroethene	12.390	166	2112	1.11	ug/L		85
86) 1,3-dichloropropane	12.406	76	3306	1.14	ug/L		95
89) dibromochloromethane	12.673	129	2197	1.22	ug/L		79
90) 1,2-dibromoethane	12.820	107	1983	1.17	ug/L		91
91) chlorobenzene	13.266	112	5597	1.13	ug/L		95
92) 1,1,1,2-tetrachloroethane	13.329	131	2108	1.06	ug/L		90
93) ethylbenzene	13.344	91	9699	1.13	ug/L		97
94) m,p-xylene	13.444	106	7306	2.17	ug/L		86
95) o-xylene	13.858	106	3930	1.14	ug/L		96
96) styrene	13.900	104	5950	1.07	ug/L		92
97) bromoform	14.136	173	1638	1.23	ug/L		90
99) isopropylbenzene	14.199	105	10040	1.08	ug/L		96
101) bromobenzene	14.603	156	2505	1.16	ug/L		96
103) 1,1,2,2-tetrachloroethane	14.503	83	4116	1.38	ug/L		96
104) trans-1,4-dichloro-2-b...	14.566	53	999	1.38	ug/L	#	1
105) 1,2,3-trichloropropane	14.577	110	1206	1.58	ug/L		96
106) n-propylbenzene	14.613	91	11659	1.12	ug/L		94
107) 2-chlorotoluene	14.750	126	2299	1.05	ug/L		89
108) 4-chlorotoluene	14.865	91	8018	1.21	ug/L		95
109) 1,3,5-trimethylbenzene	14.760	105	9727	1.15	ug/L		90
110) tert-butylbenzene	15.096	119	7133	1.06	ug/L		95
111) pentachloroethane	15.174	167	1717	1.10	ug/L		93
112) 1,2,4-trimethylbenzene	15.159	105	8702	1.08	ug/L		88
113) sec-butylbenzene	15.311	105	11183	1.08	ug/L		93
114) 1,3-dichlorobenzene	15.510	146	5224	1.20	ug/L		96
115) p-isopropyltoluene	15.436	119	9224	1.07	ug/L		98
116) 1,2,3-TRIMETHYLBENZENE	15.588	105	9780	1.08	ug/L		91
117) 1,4-dichlorobenzene	15.583	146	5682	1.23	ug/L		82
118) 1,2-dichlorobenzene	15.971	146	5502	1.22	ug/L		93
119) n-butylbenzene	15.845	92	4984	1.08	ug/L		93
121) 1,3,5-trichlorobenzene	16.873	180	4605	1.14	ug/L		97
122) 1,2,4-trichlorobenzene	17.450	180	5046	1.27	ug/L		94
123) hexachlorobutadiene	17.539	225	2292	1.23	ug/L		87
126) hexachloroethane	16.202	119	1637	1.03	ug/L		96
127) Benzyl chloride	15.709	91	6567	1.12	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93428.D
Acq On : 14 Aug 2013 10:47 am
Operator : tamikag
Sample : ic4202-1
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 10:03:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:57:14 2013
Response via : Initial Calibration



Manual Integration Approval Summary

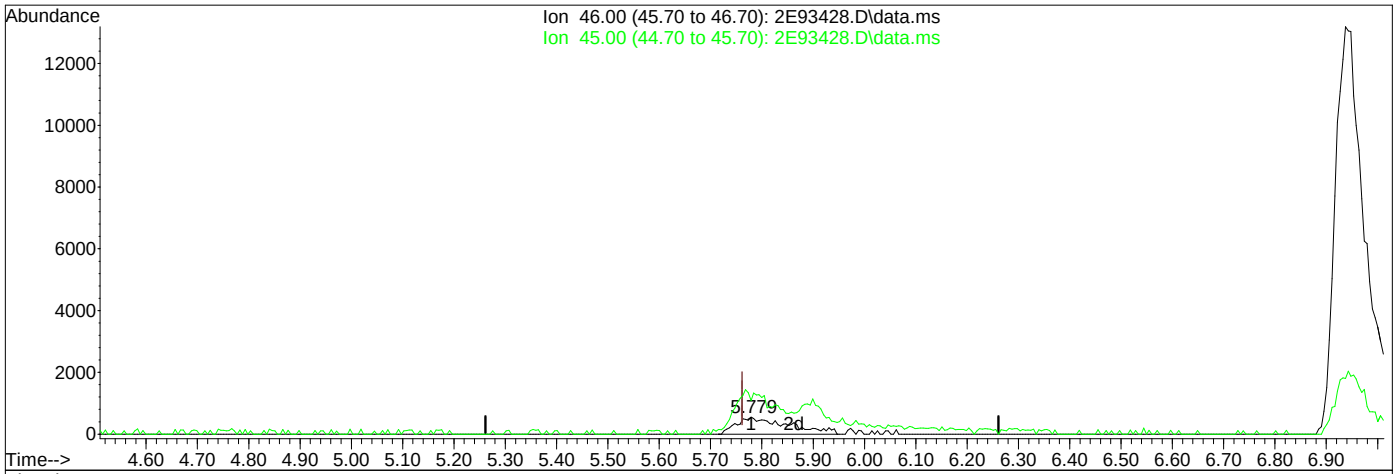
Sample Number: V2E4202-IC4202
Lab FileID: 2E93428.D
Injection Time: 08/14/13 10:47
Method: SW846 8260B
Analyst approved: 08/15/13 10:26 Dong, Mei
Supervisor approved: 08/19/13 08:52 Jessica Reitan-Chu

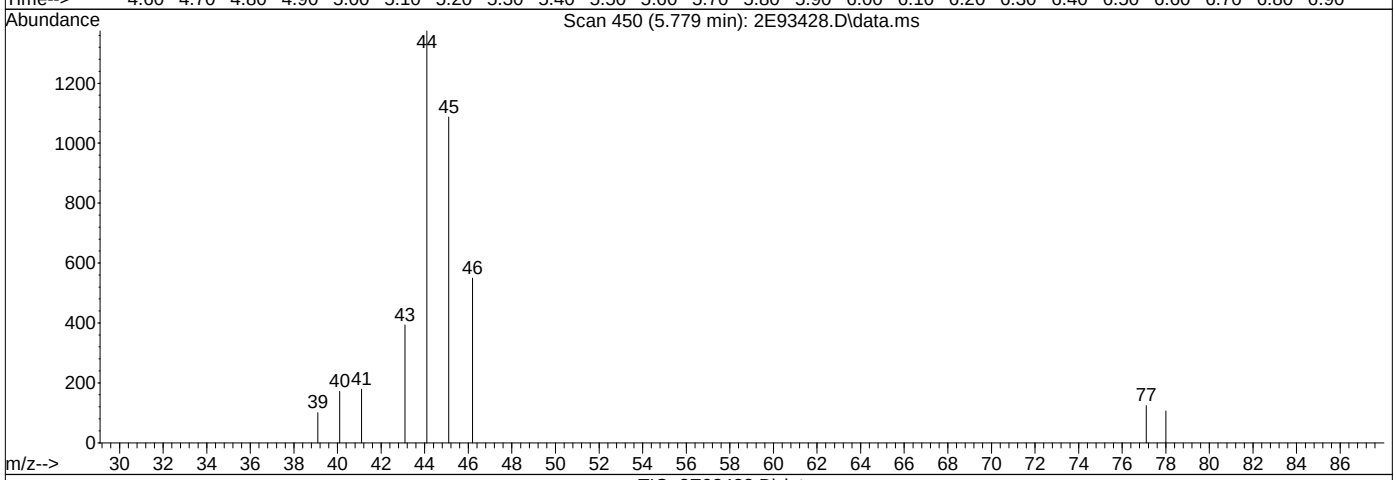
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethanol	64-17-5		5.78	Poor instrument integration
Methyl Acetate	79-20-9		6.81	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93428.D
Acq On : 14 Aug 2013 10:47 am
Operator : tamikag
Sample : ic4201-1
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 08:54:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:54:01 2013
Response via : Initial Calibration





TIC: 2E93428.D\data.ms

(4) ethanol

5.779min (+0.017) 90.17ug/L m

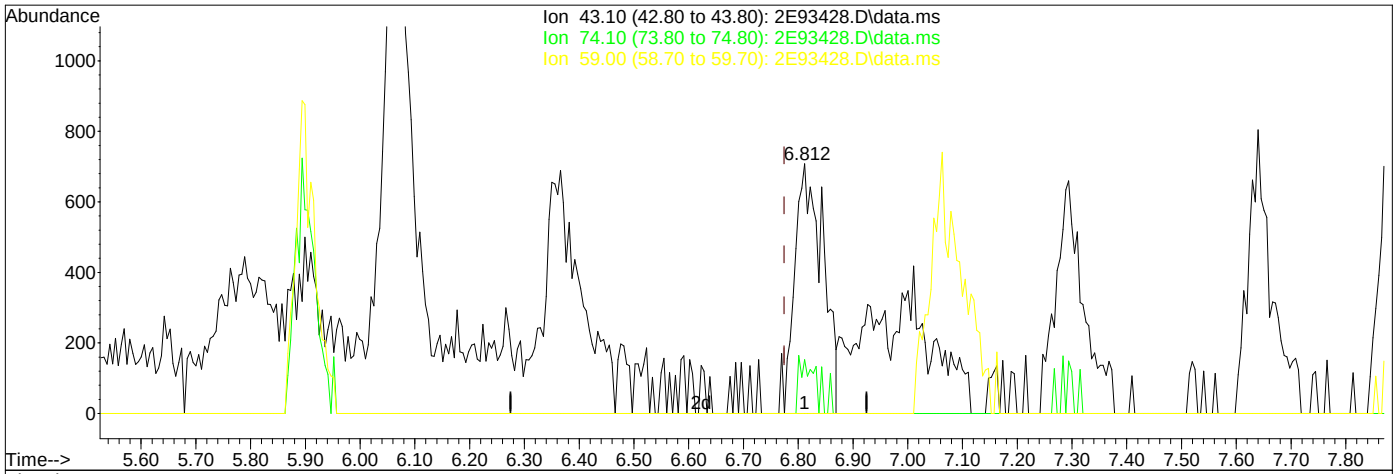
response 3839

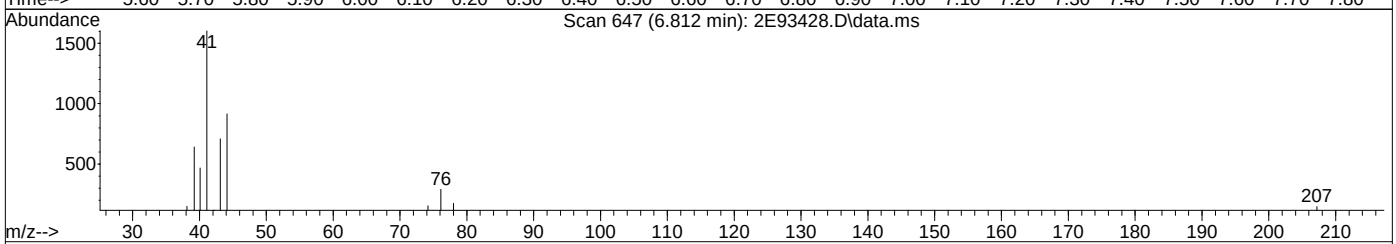
Ion	Exp%	Act%
46.00	100	100
45.00	200.00	85.52#
0.00	0.00	0.00
0.00	0.00	0.00

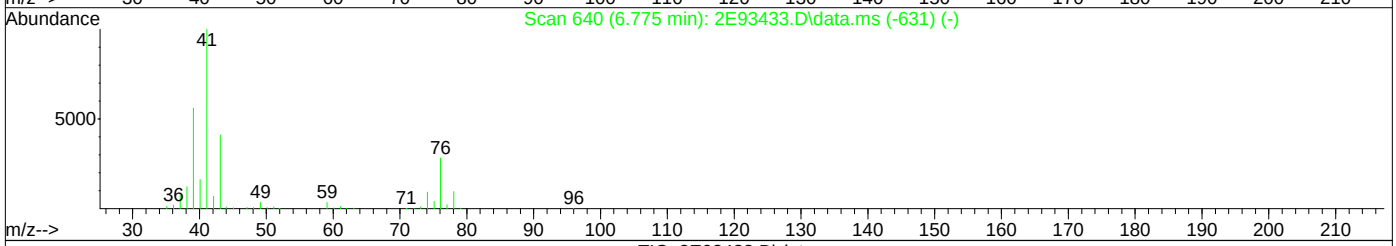
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93428.D
Acq On : 14 Aug 2013 10:47 am
Operator : tamikag
Sample : ic4202-1
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 10:03:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:57:14 2013
Response via : Initial Calibration







TIC: 2E93428.D\data.ms

(29) methyl acetate (M)

6.812min (+0.037) 1.20ug/L m

response 2506

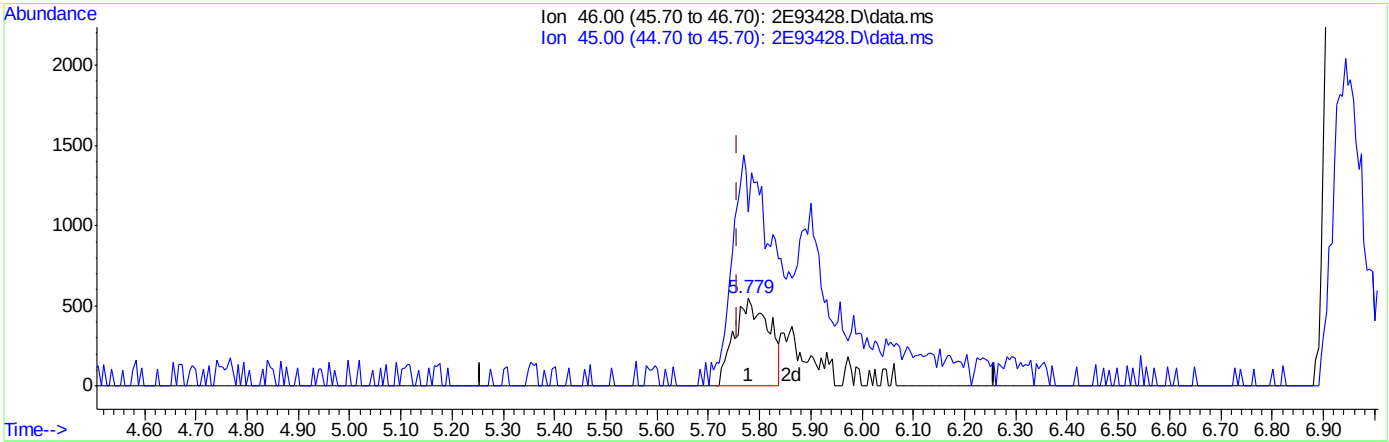
Ion	Exp%	Act%
43.10	100	100
74.10	23.20	12.97
59.00	7.90	0.00
0.00	0.00	0.00

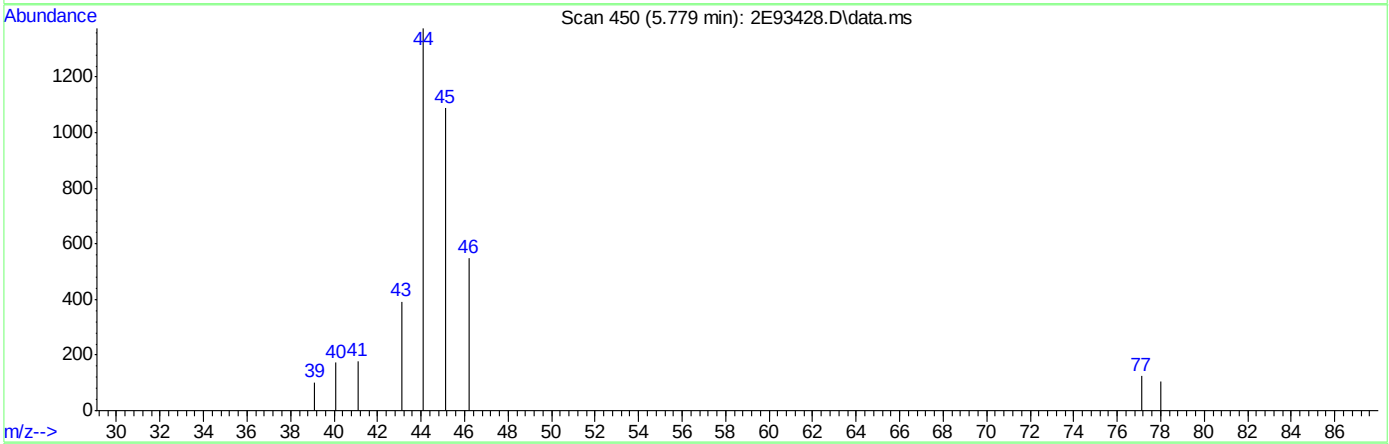
ACCUTEST LABORATORIES JB44675

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2E\v2e4202FINAL\OLD\
Data File : 2E93428.D
Acq On : 14 Aug 2013 10:47 am
Operator : tamikag
Sample : ic4202-1
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 10:40:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration





TIC: 2E93428.D\data.ms

(4) ethanol

5.779min (+0.022) 35.95ug/L

response 2530

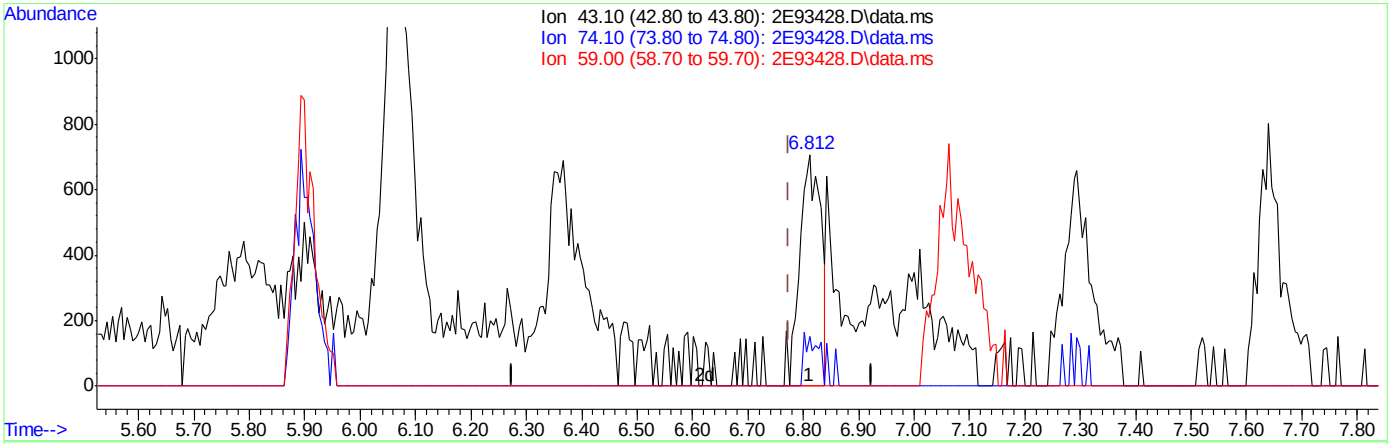
Ion	Exp%	Act%
46.00	100	100
45.00	158.10	129.76
0.00	0.00	0.00
0.00	0.00	0.00

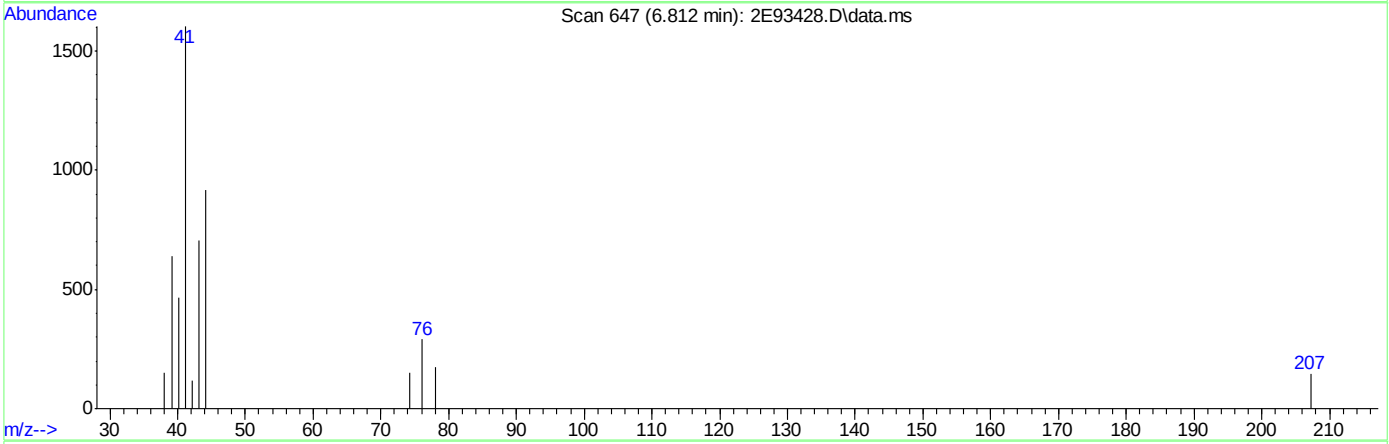
ACCUTEST LABORATORIES JB44675

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2E\v2e4202FINAL\OLD\
Data File : 2E93428.D
Acq On : 14 Aug 2013 10:47 am
Operator : tamikag
Sample : ic4202-1
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 10:40:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration





TIC: 2E93428.D\data.ms

(29) methyl acetate (M)

6.812min (+0.037) 0.88ug/L

response 1883

Ion	Exp%	Act%
43.10	100	100
74.10	23.20	17.26
59.00	7.90	0.00
0.00	0.00	0.00

2E93428.D edits: methyl acetate

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93429.D
Acq On : 14 Aug 2013 11:16 am
Operator : tamikag
Sample : ic4202-2
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 09:58:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	6.937	65	213139	500.00	ug/L		0.00
7) pentafluorobenzene	9.139	168	196551	50.00	ug/L		0.00
56) 1,4-difluorobenzene	10.047	114	296146	50.00	ug/L		0.00
84) chlorobenzene-d5	13.234	117	235889	50.00	ug/L		0.00
98) 1,4-dichlorobenzene-d4	15.552	152	134539	50.00	ug/L		0.00
System Monitoring Compounds							
48) dibromofluoromethane (s)	9.192	113	3942	2.12	ug/L		0.01
Spiked Amount 50.000	Range 79 - 117		Recovery =	4.24%#			
49) 1,2-dichloroethane-d4 (s)	9.627	65	4328	1.94	ug/L		0.03
Spiked Amount 50.000	Range 72 - 123		Recovery =	3.88%#			
76) toluene-d8 (s)	11.730	98	13924	2.01	ug/L		0.02
Spiked Amount 50.000	Range 82 - 118		Recovery =	4.02%#			
100) 4-bromofluorobenzene (s)	14.409	95	5495	2.10	ug/L		0.02
Spiked Amount 50.000	Range 75 - 118		Recovery =	4.20%#			
Target Compounds							Qvalue
2) 1,4-dioxane	10.822	88	1609	39.59	ug/L	#	93
3) tertiary butyl alcohol	7.068	59	5493	11.03	ug/L		96
4) ethanol	5.784	46	4876	116.16	ug/L		99
5) acetonitrile	6.775	40	4862	18.34	ug/L		71
6) iso-butyl alcohol	9.501	41	2881	23.17	ug/L	#	81
12) chlorodifluoromethane	3.818	51	4971	2.00	ug/L		89
13) dichlorodifluoromethane	3.802	85	7840	2.37	ug/L		91
14) chloromethane	4.096	50	7946	2.20	ug/L		97
15) vinyl chloride	4.316	62	8811	2.31	ug/L		95
16) bromomethane	4.914	94	4203	2.42	ug/L		98
17) chloroethane	5.076	64	4276	2.39	ug/L		94
18) trichlorofluoromethane	5.506	101	7942	2.33	ug/L		91
20) ethyl ether	5.894	74	3177	2.21	ug/L		96
21) 2-chloropropane	6.057	43	8365	2.09	ug/L	#	84
22) acrolein	6.140	56	14523	22.60	ug/L		88
23) 1,1-dichloroethene	6.277	96	4013	2.04	ug/L		83
25) allyl chloride	6.791	76	2565	2.05	ug/L		94
26) iodomethane	6.544	142	7237	2.13	ug/L		92
27) carbon disulfide	6.659	76	15921	2.12	ug/L		98
28) methylene chloride	6.969	84	5117	2.17	ug/L		85
29) methyl acetate	6.806	43	4240	2.04	ug/L	#	92
30) 1-chloropropane	7.006	41	1997	2.04	ug/L	#	94
31) methyl tert butyl ether	7.283	73	15669	2.18	ug/L		98
32) trans-1,2-dichloroethene	7.336	96	4370	2.09	ug/L		97
33) di-isopropyl ether	7.881	45	13237	1.98	ug/L		96
34) ethyl tert-butyl ether	8.337	59	14788	2.03	ug/L		97
36) 1,1-dichloroethane	7.897	63	8230	2.17	ug/L		97
37) chloroprene	8.012	53	5779	1.98	ug/L		93
38) acrylonitrile	7.325	53	11197	10.27	ug/L		90
41) 2,2-dichloropropane	8.610	77	6839	2.20	ug/L		89
42) cis-1,2-dichloroethene	8.636	96	4642	2.08	ug/L		86
43) propionitrile	8.741	54	7920	18.03	ug/L		67
44) bromochloromethane	8.935	128	2325	2.13	ug/L		96
46) chloroform	8.993	85	5100	2.18	ug/L		84
47) t-butyl formate	9.035	59	4438	2.00	ug/L	#	91
50) freon 113	6.240	151	3129	2.05	ug/L		100
52) 1,1,1-trichloroethane	9.229	97	6202	2.15	ug/L		79
53) Cyclohexane	9.291	84	7987	2.17	ug/L	#	56
54) 2,2,4-trimethylpentane	9.659	57	16681	1.88	ug/L	#	87
55) tert-amyl methyl ether	9.711	87	3791	2.09	ug/L	#	79
59) n-butyl alcohol	10.272	56	7766	75.75	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93429.D
Acq On : 14 Aug 2013 11:16 am
Operator : tamikag
Sample : ic4202-2
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 09:58:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
60) carbon tetrachloride	9.428	117	5589	2.24	ug/L		91
61) 1,1-dichloropropene	9.423	75	5859	2.11	ug/L		94
62) hexane	7.645	57	5252	1.97	ug/L		88
63) benzene	9.679	78	16808	2.08	ug/L		100
64) heptane	9.863	57	2994	2.00	ug/L		83
65) isopropyl acetate	9.653	43	8457	1.95	ug/L		87
66) 1,2-dichloroethane	9.706	62	5396	2.05	ug/L		91
67) trichloroethene	10.414	95	4259	2.21	ug/L		93
69) 2-chloroethyl vinyl ether	11.231	63	13982	10.07	ug/L		96
71) 1,2-dichloropropane	10.655	63	4422	2.05	ug/L		97
72) methylcyclohexane	10.602	83	8093	2.12	ug/L		96
73) dibromomethane	10.833	93	2425	1.92	ug/L		87
74) bromodichloromethane	10.964	83	5173	2.08	ug/L		96
75) cis-1,3-dichloropropene	11.441	75	6607	1.99	ug/L		84
78) toluene	11.803	92	9717	2.11	ug/L		99
79) 3-methyl-1-butanol	11.588	70	4102	39.37	ug/L		88
80) trans-1,3-dichloropropene	12.018	75	5607	1.96	ug/L	#	67
81) ethyl methacrylate	12.044	69	4567	1.66	ug/L		96
82) 1,1,2-trichloroethane	12.222	83	2738	1.90	ug/L		90
85) tetrachloroethene	12.385	166	4206	2.22	ug/L		96
86) 1,3-dichloropropane	12.401	76	5928	2.06	ug/L		96
88) 3,3-dimethyl-1-butanol	12.574	57	10229	24.42	ug/L		92
89) dibromochloromethane	12.663	129	3569	2.00	ug/L		98
90) 1,2-dibromoethane	12.815	107	3372	2.01	ug/L	#	70
91) chlorobenzene	13.271	112	10352	2.10	ug/L		95
92) 1,1,1,2-tetrachloroethane	13.329	131	4189	2.13	ug/L		94
93) ethylbenzene	13.334	91	18276	2.14	ug/L		96
94) m,p-xylene	13.439	106	14123	4.23	ug/L		90
95) o-xylene	13.858	106	7121	2.08	ug/L		92
96) styrene	13.884	104	10895	1.98	ug/L		95
97) bromoform	14.126	173	2493	1.88	ug/L		88
99) isopropylbenzene	14.194	105	19275	2.08	ug/L		97
101) bromobenzene	14.603	156	4246	1.98	ug/L		94
102) cyclohexanone	14.362	55	3419	15.75	ug/L		82
103) 1,1,2,2-tetrachloroethane	14.503	83	6173	2.08	ug/L		99
104) trans-1,4-dichloro-2-b...	14.556	53	1663	2.30	ug/L		97
105) 1,2,3-trichloropropane	14.571	110	1642	2.16	ug/L		78
106) n-propylbenzene	14.608	91	21738	2.09	ug/L		97
107) 2-chlorotoluene	14.749	126	4518	2.07	ug/L		99
108) 4-chlorotoluene	14.854	91	14353	2.18	ug/L		98
109) 1,3,5-trimethylbenzene	14.755	105	17765	2.12	ug/L		96
110) tert-butylbenzene	15.096	119	13321	1.99	ug/L		96
111) pentachloroethane	15.179	167	2937	1.89	ug/L		94
112) 1,2,4-trimethylbenzene	15.148	105	16372	2.04	ug/L		98
113) sec-butylbenzene	15.310	105	21259	2.05	ug/L		97
114) 1,3-dichlorobenzene	15.505	146	8896	2.06	ug/L		96
115) p-isopropyltoluene	15.431	119	17531	2.05	ug/L		96
116) 1,2,3-TRIMETHYLBENZENE	15.583	105	18889	2.10	ug/L		96
117) 1,4-dichlorobenzene	15.578	146	10043	2.19	ug/L		94
118) 1,2-dichlorobenzene	15.966	146	9397	2.08	ug/L		95
119) n-butylbenzene	15.845	92	9321	2.03	ug/L		92
120) 1,2-dibromo-3-chloropr...	16.695	75	1447	2.19	ug/L		90
121) 1,3,5-trichlorobenzene	16.873	180	8198	2.04	ug/L		99
122) 1,2,4-trichlorobenzene	17.444	180	8135	2.05	ug/L		92
123) hexachlorobutadiene	17.539	225	3681	1.98	ug/L		99
124) naphthalene	17.691	128	23046	2.20	ug/L		98
125) 1,2,3-trichlorobenzene	17.906	180	7936	2.21	ug/L		98
126) hexachloroethane	16.197	119	2842	1.79	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93429.D
Acq On : 14 Aug 2013 11:16 am
Operator : tamikag
Sample : ic4202-2
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 09:58:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration

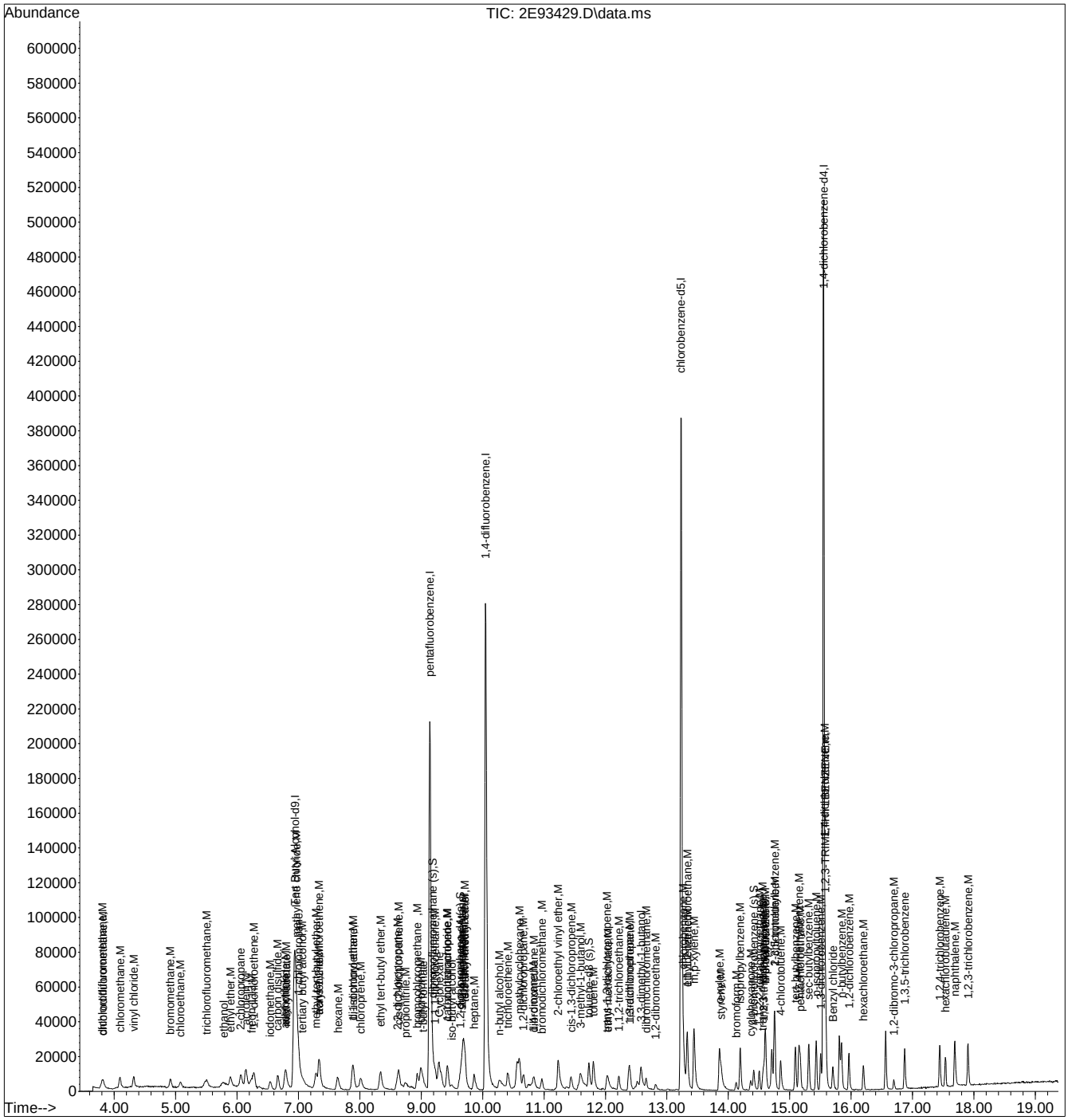
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
127) Benzyl chloride	15.704	91	12132	2.07	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93429.D
Acq On : 14 Aug 2013 11:16 am
Operator : tamikag
Sample : ic4202-2
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 09:58:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 08/19/13 08:52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93430.D
Acq On : 14 Aug 2013 11:45 am
Operator : tamikag
Sample : ic4202-5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 09:03:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	6.937	65	206034	500.00	ug/L		0.00
7) pentafluorobenzene	9.139	168	192370	50.00	ug/L		0.00
56) 1,4-difluorobenzene	10.046	114	293596	50.00	ug/L		0.00
84) chlorobenzene-d5	13.234	117	230304	50.00	ug/L		0.00
98) 1,4-dichlorobenzene-d4	15.552	152	132853	50.00	ug/L		0.00
System Monitoring Compounds							
48) dibromofluoromethane (s)	9.187	113	9283	5.11	ug/L		0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 10.22%#				
49) 1,2-dichloroethane-d4 (s)	9.611	65	10808	4.95	ug/L		0.02
Spiked Amount 50.000	Range 72 - 123		Recovery = 9.90%#				
76) toluene-d8 (s)	11.719	98	34470	5.02	ug/L		0.01
Spiked Amount 50.000	Range 82 - 118		Recovery = 10.04%#				
100) 4-bromofluorobenzene (s)	14.403	95	13135	5.09	ug/L		0.01
Spiked Amount 50.000	Range 75 - 118		Recovery = 10.18%#				
Target Compounds							Qvalue
2) 1,4-dioxane	10.791	88	5108	130.01	ug/L	#	85
3) tertiary butyl alcohol	7.068	59	12765	26.51	ug/L		95
4) ethanol	5.758	46	12043	296.79	ug/L		87
5) acetonitrile	6.770	40	12999	50.73	ug/L		87
6) iso-butyl alcohol	9.470	41	5557	46.23	ug/L	#	90
12) chlorodifluoromethane	3.812	51	13629	5.59	ug/L		96
13) dichlorodifluoromethane	3.797	85	17953	5.55	ug/L		97
14) chloromethane	4.090	50	17888	5.07	ug/L		96
15) vinyl chloride	4.321	62	19811	5.30	ug/L		99
16) bromomethane	4.914	94	9682	5.70	ug/L		98
17) chloroethane	5.076	64	9364	5.35	ug/L		94
18) trichlorofluoromethane	5.506	101	18239	5.46	ug/L		88
20) ethyl ether	5.889	74	7468	5.32	ug/L		88
21) 2-chloropropane	6.062	43	20501	5.23	ug/L		90
22) acrolein	6.130	56	32275	51.32	ug/L		99
23) 1,1-dichloroethene	6.271	96	10562	5.49	ug/L		95
24) acetone	6.355	58	1822	6.22	ug/L	#	72
25) allyl chloride	6.785	76	6750	5.50	ug/L		91
26) iodomethane	6.539	142	17882	5.38	ug/L		96
27) carbon disulfide	6.665	76	37594	5.10	ug/L		99
28) methylene chloride	6.969	84	12325	5.34	ug/L		97
29) methyl acetate	6.796	43	11647	5.74	ug/L		93
30) 1-chloropropane	6.990	41	5112	5.33	ug/L	#	88
31) methyl tert butyl ether	7.278	73	37712	5.36	ug/L		98
32) trans-1,2-dichloroethene	7.336	96	11206	5.47	ug/L		93
33) di-isopropyl ether	7.871	45	36034	5.51	ug/L		98
34) ethyl tert-butyl ether	8.327	59	39890	5.60	ug/L		97
35) 2-butanone	8.662	72	1127	3.70	ug/L	#	1
36) 1,1-dichloroethane	7.892	63	20054	5.40	ug/L		98
37) chloroprene	8.007	53	16592	5.80	ug/L		92
38) acrylonitrile	7.315	53	29171	27.34	ug/L		98
39) vinyl acetate	7.934	86	1551	3.71	ug/L	#	16
40) ethyl acetate	8.662	45	1536m	4.78	ug/L		
41) 2,2-dichloropropane	8.615	77	16038	5.27	ug/L		99
42) cis-1,2-dichloroethene	8.631	96	12000	5.49	ug/L		85
43) propionitrile	8.720	54	21998	51.17	ug/L		72
44) bromochloromethane	8.930	128	5806	5.43	ug/L		93
45) tetrahydrofuran	8.987	42	6716	6.54	ug/L		90
46) chloroform	8.987	85	11886	5.20	ug/L		99
47) t-butyl formate	9.019	59	11604	5.33	ug/L		89
50) freon 113	6.245	151	8327	5.57	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93430.D
Acq On : 14 Aug 2013 11:45 am
Operator : tamikag
Sample : ic4202-5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 09:03:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) methacrylonitrile	8.909	41	5005	3.77	ug/L		92
52) 1,1,1-trichloroethane	9.223	97	15556	5.50	ug/L		96
53) Cyclohexane	9.291	84	19475	5.41	ug/L		98
54) 2,2,4-trimethylpentane	9.658	57	48622	5.61	ug/L	#	92
55) tert-amyl methyl ether	9.700	87	10038	5.65	ug/L	#	77
58) epichlorohydrin	11.357	57	6394	24.53	ug/L		86
59) n-butyl alcohol	10.230	56	27065	266.30	ug/L		94
60) carbon tetrachloride	9.428	117	13157	5.32	ug/L		98
61) 1,1-dichloropropene	9.417	75	14706	5.34	ug/L		97
62) hexane	7.629	57	15162	5.74	ug/L		96
63) benzene	9.674	78	42852	5.35	ug/L		99
64) heptane	9.852	57	8061	5.43	ug/L		92
65) isopropyl acetate	9.627	43	25914	6.02	ug/L		87
66) 1,2-dichloroethane	9.700	62	13241	5.08	ug/L		96
67) trichloroethene	10.403	95	10034	5.25	ug/L		95
68) 2-nitropropane	11.210	41	4535	5.26	ug/L	#	1
69) 2-chloroethyl vinyl ether	11.216	63	34874	25.34	ug/L		98
70) methyl methacrylate	10.718	100	2797	4.60	ug/L	#	62
71) 1,2-dichloropropane	10.660	63	11141	5.21	ug/L		95
72) methylcyclohexane	10.597	83	21160	5.60	ug/L		98
73) dibromomethane	10.828	93	6324	5.06	ug/L		98
74) bromodichloromethane	10.959	83	13023	5.28	ug/L		97
75) cis-1,3-dichloropropene	11.431	75	16312	4.96	ug/L		96
77) 4-methyl-2-pentanone	11.535	58	5526	5.15	ug/L	#	1
78) toluene	11.798	92	23921	5.24	ug/L		91
79) 3-methyl-1-butanol	11.577	70	9593	92.86	ug/L		81
80) trans-1,3-dichloropropene	12.013	75	13402	4.73	ug/L		94
81) ethyl methacrylate	12.013	69	13579	4.97	ug/L		93
82) 1,1,2-trichloroethane	12.212	83	7241	5.06	ug/L		91
83) 2-hexanone	12.453	58	4357	5.15	ug/L		84
85) tetrachloroethene	12.380	166	10251	5.54	ug/L		99
86) 1,3-dichloropropane	12.395	76	15189	5.40	ug/L		98
87) butyl acetate	12.505	56	6445	4.88	ug/L	#	63
88) 3,3-dimethyl-1-butanol	12.574	57	22987	56.20	ug/L		93
89) dibromochloromethane	12.657	129	9020	5.18	ug/L		95
90) 1,2-dibromoethane	12.810	107	8529	5.21	ug/L		88
91) chlorobenzene	13.266	112	25610	5.31	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.329	131	10049	5.23	ug/L		93
93) ethylbenzene	13.329	91	44797	5.36	ug/L		97
94) m,p-xylene	13.433	106	35373	10.86	ug/L		99
95) o-xylene	13.853	106	18439	5.51	ug/L		93
96) styrene	13.874	104	28441	5.28	ug/L		94
97) bromoform	14.126	173	6232	4.82	ug/L		97
99) isopropylbenzene	14.188	105	48310	5.29	ug/L		95
101) bromobenzene	14.592	156	11362	5.36	ug/L		87
102) cyclohexanone	14.356	55	13934	65.00	ug/L		97
103) 1,1,2,2-tetrachloroethane	14.498	83	14607	4.99	ug/L		99
104) trans-1,4-dichloro-2-b...	14.550	53	3762	5.28	ug/L		88
105) 1,2,3-trichloropropane	14.571	110	4055	5.40	ug/L		97
106) n-propylbenzene	14.603	91	54764	5.33	ug/L		98
107) 2-chlorotoluene	14.744	126	10953	5.08	ug/L		91
108) 4-chlorotoluene	14.849	91	32968	5.07	ug/L		99
109) 1,3,5-trimethylbenzene	14.755	105	43046	5.19	ug/L		97
110) tert-butylbenzene	15.090	119	33326	5.04	ug/L		98
111) pentachloroethane	15.174	167	7123	4.64	ug/L		90
112) 1,2,4-trimethylbenzene	15.148	105	41942	5.30	ug/L		97
113) sec-butylbenzene	15.310	105	53538	5.24	ug/L		100
114) 1,3-dichlorobenzene	15.504	146	21946	5.13	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93430.D
Acq On : 14 Aug 2013 11:45 am
Operator : tamikag
Sample : ic4202-5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 09:03:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration

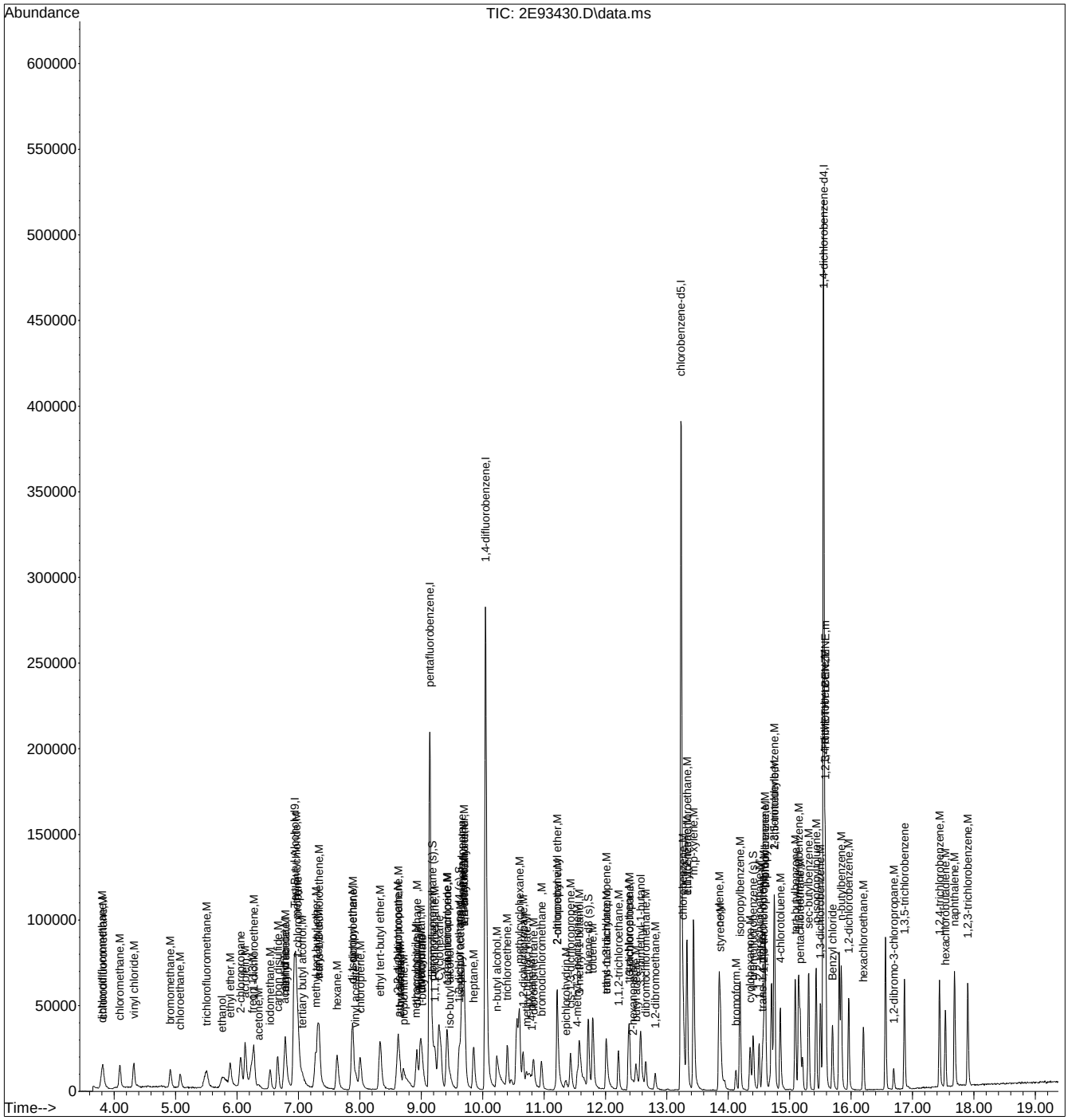
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) p-isopropyltoluene	15.431	119	43435	5.13	ug/L	99
116) 1,2,3-TRIMETHYLBENZENE	15.583	105	46953	5.29	ug/L	98
117) 1,4-dichlorobenzene	15.578	146	23386	5.16	ug/L	99
118) 1,2-dichlorobenzene	15.961	146	23221	5.21	ug/L	96
119) n-butylbenzene	15.840	92	24115	5.31	ug/L	97
120) 1,2-dibromo-3-chloropr...	16.695	75	3306	5.08	ug/L	91
121) 1,3,5-trichlorobenzene	16.873	180	20824	5.24	ug/L	99
122) 1,2,4-trichlorobenzene	17.439	180	19268	4.92	ug/L	94
123) hexachlorobutadiene	17.539	225	9297	5.07	ug/L	92
124) naphthalene	17.686	128	54949	5.31	ug/L	99
125) 1,2,3-trichlorobenzene	17.901	180	19379	5.47	ug/L	98
126) hexachloroethane	16.197	119	7625	4.85	ug/L	97
127) Benzyl chloride	15.698	91	30860	5.34	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93430.D
Acq On : 14 Aug 2013 11:45 am
Operator : tamikag
Sample : ic4202-5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 09:03:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration



Manual Integration Approval Summary

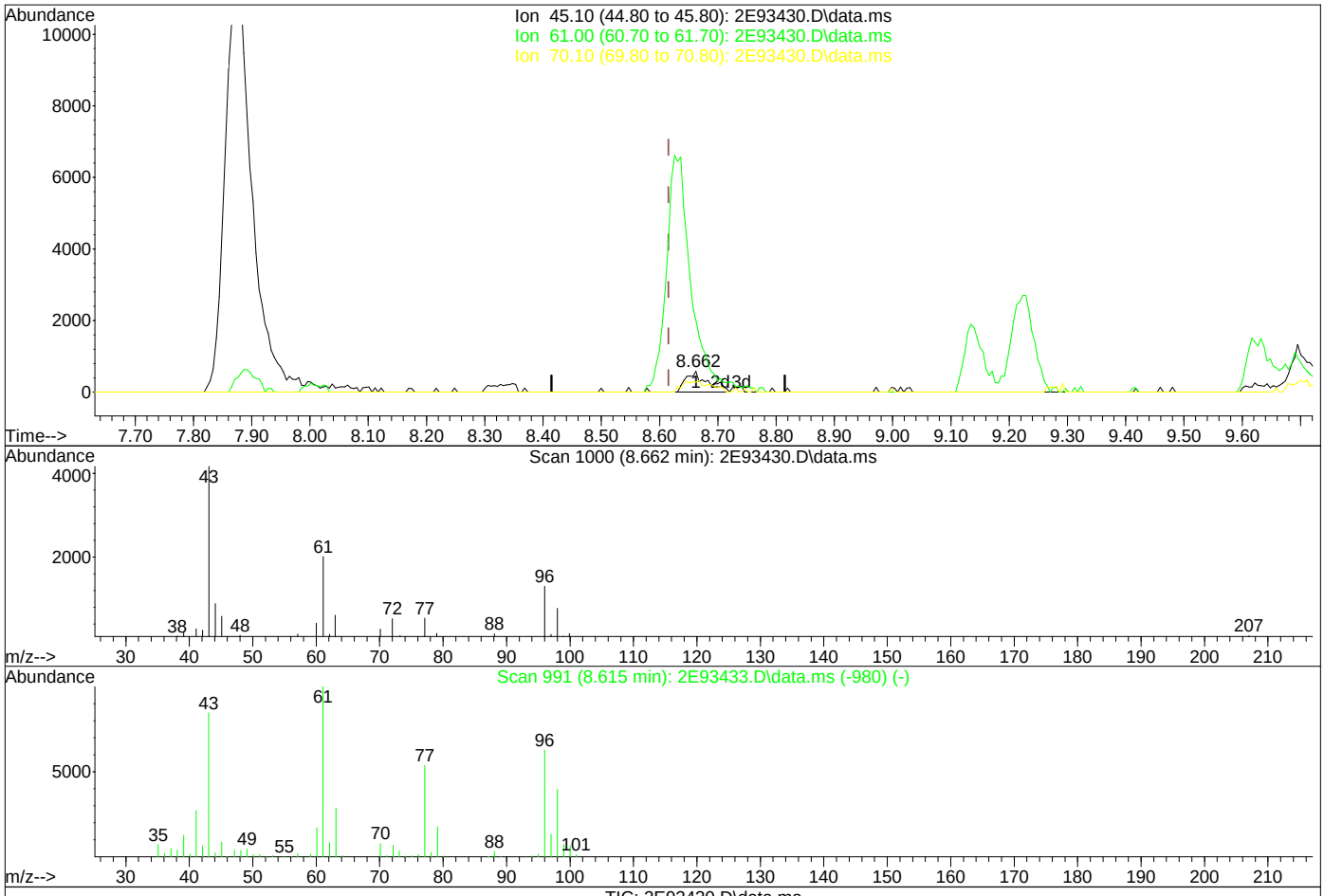
Sample Number: V2E4202-IC4202
Lab FileID: 2E93430.D
Injection Time: 08/14/13 11:45
Method: SW846 8260B
Analyst approved: 08/15/13 10:26 Dong, Mei
Supervisor approved: 08/19/13 08:52 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Acetate	141-78-6		8.66	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93430.D
Acq On : 14 Aug 2013 11:45 am
Operator : tamikag
Sample : ic4202-5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 09:03:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 08:59:57 2013
Response via : Initial Calibration



TIC: 2E93430.D\data.ms

(40) ethyl acetate (M)

8.662min (+0.047) 4.78ug/L m

response 1536

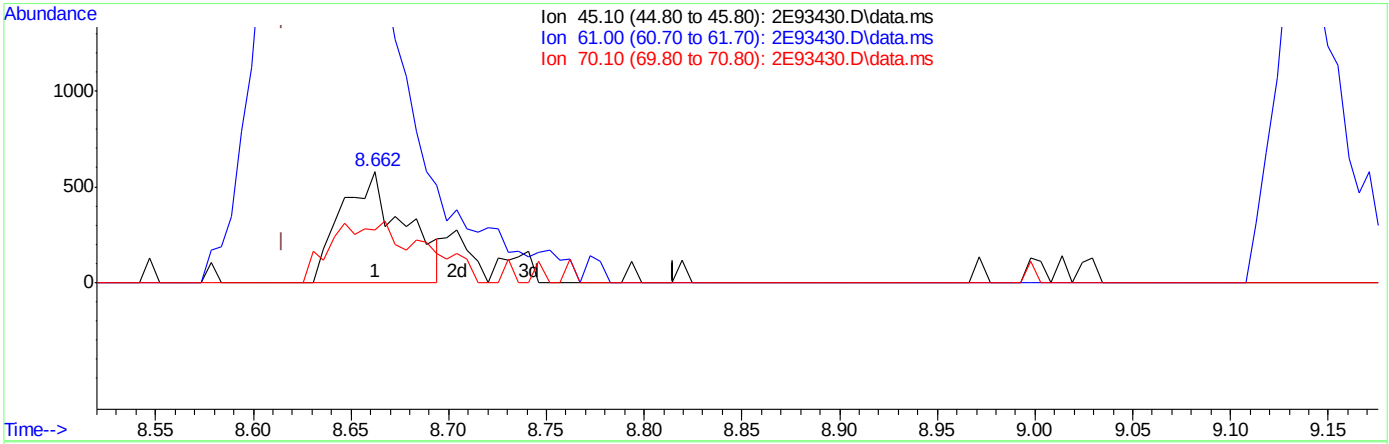
Ion	Exp%	Act%
45.10	100	100
61.00	1170.30	345.88#
70.10	92.30	47.08#
0.00	0.00	0.00

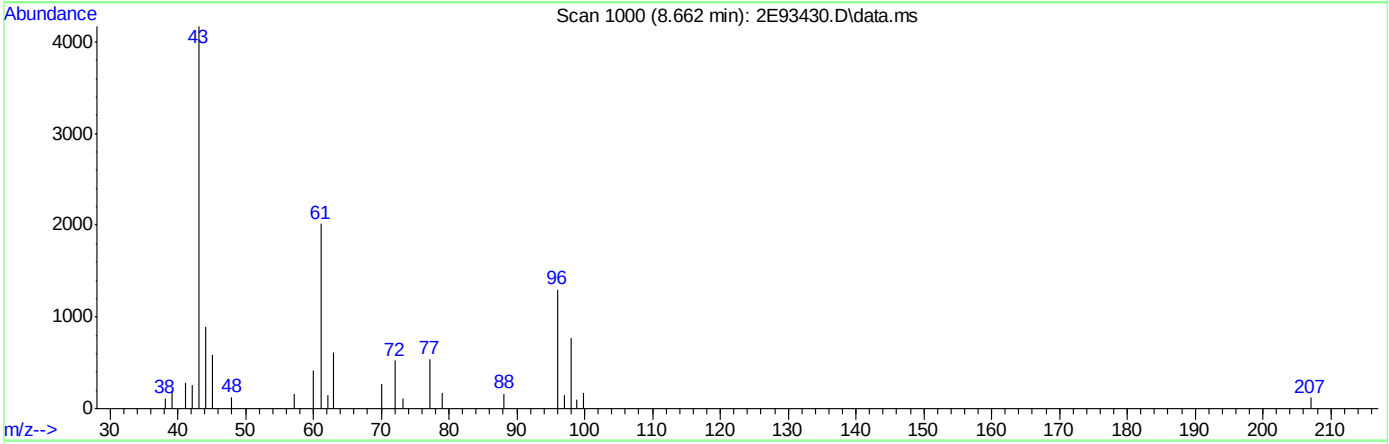
ACCUTEST LABORATORIES JB44675

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2E\v2e4202FINAL\OLD\
Data File : 2E93430.D
Acq On : 14 Aug 2013 11:45 am
Operator : tamikag
Sample : ic4202-5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 10:41:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration





TIC: 2E93430.D\data.ms

(40) ethyl acetate (M)

8.662min (+0.047) 3.92ug/L

response 1287

Ion	Exp%	Act%
45.10	100	100
61.00	1170.30	258.93#
70.10	92.30	47.08#
0.00	0.00	0.00

ACCUTEST LABORATORIES JB44675

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93431.D
Acq On : 14 Aug 2013 12:14 pm
Operator : tamikag
Sample : ic4202-10
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 09:09:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:08:32 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.932	65	205776	500.00	ug/L	-0.01
7) pentafluorobenzene	9.140	168	194172	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	298008	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	233916	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	134369	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.187	113	18369	10.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery =	20.04%#		
49) 1,2-dichloroethane-d4 (s)	9.606	65	22019	9.99	ug/L	0.01
Spiked Amount 50.000	Range 72 - 123		Recovery =	19.98%#		
76) toluene-d8 (s)	11.714	98	67657	9.70	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery =	19.40%#		
100) 4-bromofluorobenzene (s)	14.398	95	24454	9.38	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery =	18.76%#		
Target Compounds						Qvalue
2) 1,4-dioxane	10.786	88	10033	255.68	ug/L #	88
3) tertiary butyl alcohol	7.058	59	23548	48.96	ug/L	91
4) ethanol	5.758	46	23602	582.39	ug/L	72
5) acetonitrile	6.770	40	23561	92.06	ug/L	84
6) iso-butyl alcohol	9.459	41	11028	91.86	ug/L	97
12) chlorodifluoromethane	3.813	51	24475	9.95	ug/L	98
13) dichlorodifluoromethane	3.802	85	31945	9.79	ug/L	96
14) chloromethane	4.096	50	33732	9.47	ug/L	99
15) vinyl chloride	4.321	62	35802	9.50	ug/L	98
16) bromomethane	4.914	94	17176	10.02	ug/L	94
17) chloroethane	5.076	64	16541	9.36	ug/L	97
18) trichlorofluoromethane	5.501	101	32778	9.72	ug/L	99
20) ethyl ether	5.889	74	14337	10.11	ug/L	88
21) 2-chloropropane	6.057	43	40163	10.15	ug/L	95
22) acrolein	6.125	56	62228	98.02	ug/L	100
23) 1,1-dichloroethene	6.277	96	18946	9.76	ug/L	89
24) acetone	6.345	58	2968	10.03	ug/L	99
25) allyl chloride	6.780	76	11983	9.68	ug/L	96
26) iodomethane	6.539	142	34112	10.17	ug/L	97
27) carbon disulfide	6.660	76	69934	9.41	ug/L	98
28) methylene chloride	6.964	84	22844	9.81	ug/L	95
29) methyl acetate	6.791	43	20937	10.22	ug/L	96
30) 1-chloropropane	6.995	41	10450	10.79	ug/L	75
31) methyl tert butyl ether	7.284	73	72897	10.27	ug/L	99
32) trans-1,2-dichloroethene	7.331	96	20763	10.05	ug/L	96
33) di-isopropyl ether	7.871	45	65068	9.86	ug/L	97
34) ethyl tert-butyl ether	8.332	59	70964	9.87	ug/L	99
35) 2-butanone	8.647	72	2863	9.31	ug/L	88
36) 1,1-dichloroethane	7.886	63	38202	10.19	ug/L	97
37) chloroprene	8.002	53	28569	9.89	ug/L	97
38) acrylonitrile	7.304	53	55401	51.44	ug/L	97
39) vinyl acetate	7.923	86	3769	8.92	ug/L #	14
40) ethyl acetate	8.636	45	2938	9.06	ug/L	76
41) 2,2-dichloropropane	8.610	77	30814	10.03	ug/L	99
42) cis-1,2-dichloroethene	8.620	96	22517	10.20	ug/L	91
43) propionitrile	8.699	54	44682	102.97	ug/L	70
44) bromochloromethane	8.925	128	11233	10.41	ug/L	96
45) tetrahydrofuran	8.977	42	11414	11.01	ug/L	96
46) chloroform	8.982	85	22841	9.90	ug/L	98
47) t-butyl formate	9.014	59	21101	9.61	ug/L #	82
50) freon 113	6.240	151	14609	9.68	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93431.D
Acq On : 14 Aug 2013 12:14 pm
Operator : tamikag
Sample : ic4202-10
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 09:09:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:08:32 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) methacrylonitrile	8.893	41	12890	9.62	ug/L		91
52) 1,1,1-trichloroethane	9.223	97	29793	10.43	ug/L		98
53) Cyclohexane	9.286	84	36467	10.03	ug/L		98
54) 2,2,4-trimethylpentane	9.664	57	84754	9.68	ug/L	#	92
55) tert-amyl methyl ether	9.701	87	17076	9.53	ug/L		97
58) epichlorohydrin	11.336	57	11816	44.66	ug/L		91
59) n-butyl alcohol	10.214	56	51934	503.43	ug/L		98
60) carbon tetrachloride	9.423	117	25107	10.01	ug/L		97
61) 1,1-dichloropropene	9.412	75	27806	9.94	ug/L		99
62) hexane	7.630	57	25769	9.62	ug/L		98
63) benzene	9.669	78	81282	9.99	ug/L		98
64) heptane	9.853	57	15054	10.00	ug/L		93
65) isopropyl acetate	9.617	43	46372	10.61	ug/L		92
66) 1,2-dichloroethane	9.695	62	27468	10.38	ug/L		98
67) trichloroethene	10.393	95	19428	10.02	ug/L		96
68) 2-nitropropane	11.190	41	8343	9.53	ug/L	#	6
69) 2-chloroethyl vinyl ether	11.205	63	65697	47.04	ug/L		98
70) methyl methacrylate	10.697	100	6021	9.76	ug/L	#	80
71) 1,2-dichloropropane	10.655	63	21896	10.09	ug/L		95
72) methylcyclohexane	10.597	83	35469	9.24	ug/L		96
73) dibromomethane	10.828	93	12462	9.83	ug/L		99
74) bromodichloromethane	10.959	83	25142	10.05	ug/L		99
75) cis-1,3-dichloropropene	11.426	75	31306	9.37	ug/L		98
77) 4-methyl-2-pentanone	11.536	58	11143	10.23	ug/L	#	6
78) toluene	11.787	92	46138	9.96	ug/L		97
79) 3-methyl-1-butanol	11.567	70	21274	202.89	ug/L		96
80) trans-1,3-dichloropropene	12.002	75	27048	9.41	ug/L		89
81) ethyl methacrylate	12.007	69	27903	10.06	ug/L		97
82) 1,1,2-trichloroethane	12.207	83	14091	9.70	ug/L		98
83) 2-hexanone	12.416	58	9411	10.96	ug/L		99
85) tetrachloroethene	12.374	166	19102	10.16	ug/L		96
86) 1,3-dichloropropane	12.390	76	29731	10.41	ug/L		95
87) butyl acetate	12.490	56	12525	9.33	ug/L	#	82
88) 3,3-dimethyl-1-butanol	12.568	57	43707	105.20	ug/L		97
89) dibromochloromethane	12.652	129	18066	10.21	ug/L		97
90) 1,2-dibromoethane	12.804	107	17384	10.45	ug/L		98
91) chlorobenzene	13.266	112	49744	10.15	ug/L		97
92) 1,1,1,2-tetrachloroethane	13.323	131	19660	10.07	ug/L		94
93) ethylbenzene	13.323	91	85848	10.12	ug/L		100
94) m,p-xylene	13.434	106	67594	20.43	ug/L		99
95) o-xylene	13.848	106	34910	10.28	ug/L		100
96) styrene	13.869	104	54346	9.94	ug/L		99
97) bromoform	14.120	173	12754	9.70	ug/L		100
99) isopropylbenzene	14.189	105	92172	9.98	ug/L		99
101) bromobenzene	14.587	156	21749	10.14	ug/L		93
102) cyclohexanone	14.356	55	22377	103.21	ug/L		96
103) 1,1,2,2-tetrachloroethane	14.498	83	28439	9.60	ug/L		98
104) trans-1,4-dichloro-2-b...	14.545	53	7300	10.12	ug/L		99
105) 1,2,3-trichloropropane	14.571	110	7722	10.16	ug/L		98
106) n-propylbenzene	14.598	91	102811	9.89	ug/L		100
107) 2-chlorotoluene	14.744	126	21329	9.78	ug/L		96
108) 4-chlorotoluene	14.844	91	64112	9.74	ug/L		100
109) 1,3,5-trimethylbenzene	14.750	105	82030	9.78	ug/L		98
110) tert-butylbenzene	15.090	119	64949	9.71	ug/L		100
111) pentachloroethane	15.174	167	15045	9.70	ug/L		94
112) 1,2,4-trimethylbenzene	15.143	105	80430	10.05	ug/L		97
113) sec-butylbenzene	15.305	105	101362	9.80	ug/L		97
114) 1,3-dichlorobenzene	15.499	146	41889	9.69	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93431.D
Acq On : 14 Aug 2013 12:14 pm
Operator : tamikag
Sample : ic4202-10
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 09:09:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:08:32 2013
Response via : Initial Calibration

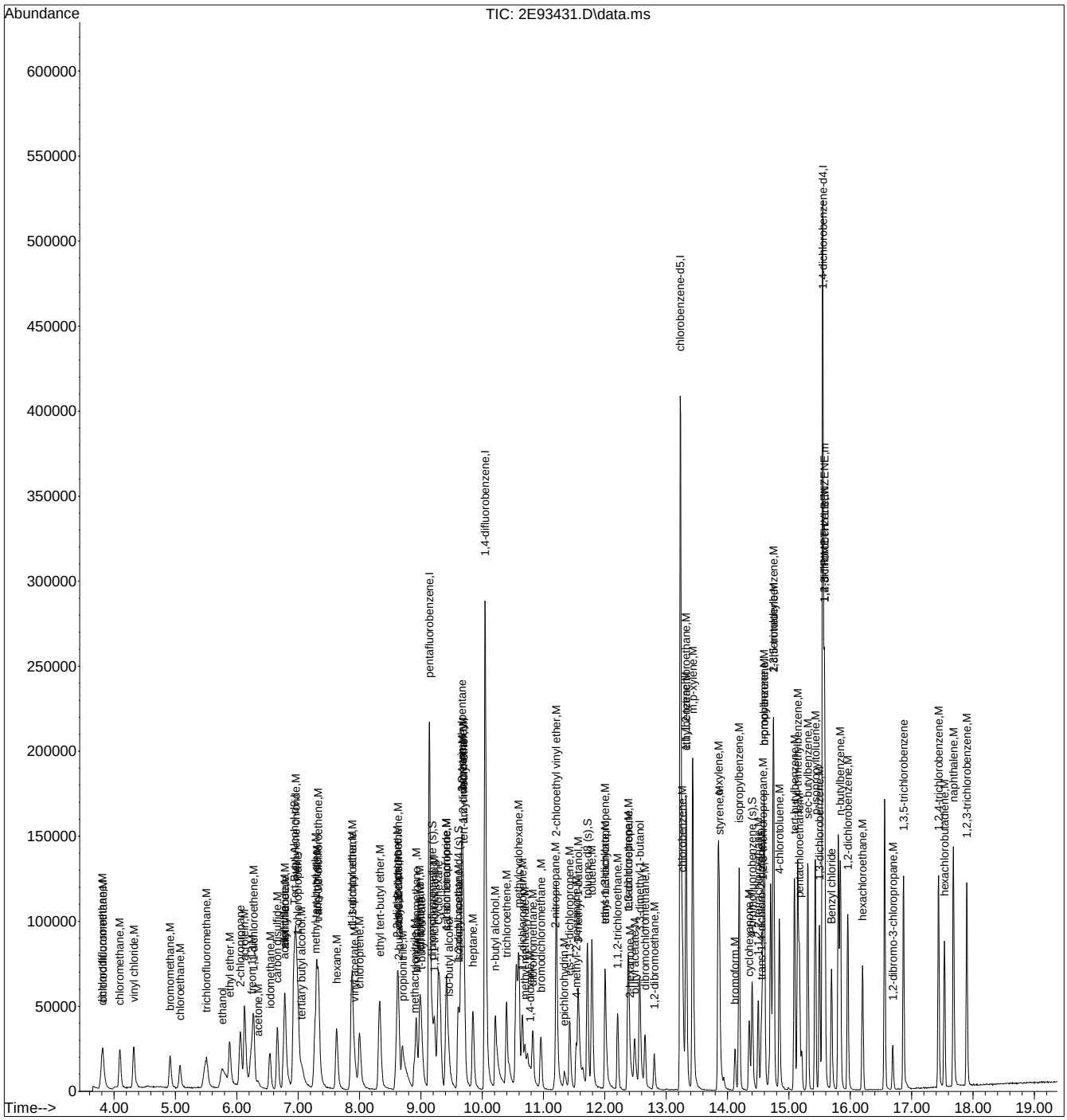
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) p-isopropyltoluene	15.426	119	85641	10.01	ug/L	99
116) 1,2,3-TRIMETHYLBENZENE	15.583	105	84848	9.44	ug/L	99
117) 1,4-dichlorobenzene	15.578	146	44515	9.71	ug/L	98
118) 1,2-dichlorobenzene	15.961	146	44493	9.87	ug/L	96
119) n-butylbenzene	15.840	92	46242	10.08	ug/L	96
120) 1,2-dibromo-3-chloropr...	16.695	75	6836	10.38	ug/L	93
121) 1,3,5-trichlorobenzene	16.868	180	40254	10.01	ug/L	98
122) 1,2,4-trichlorobenzene	17.439	180	38600	9.74	ug/L	98
123) hexachlorobutadiene	17.534	225	17740	9.56	ug/L	99
124) naphthalene	17.680	128	109579	10.47	ug/L	98
125) 1,2,3-trichlorobenzene	17.901	180	37429	10.45	ug/L	98
126) hexachloroethane	16.202	119	14883	9.36	ug/L	99
127) Benzyl chloride	15.693	91	56110	9.61	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93431.D
Acq On : 14 Aug 2013 12:14 pm
Operator : tamikag
Sample : ic4202-10
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 09:09:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:08:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93432.D
Acq On : 14 Aug 2013 12:43 pm
Operator : tamikag
Sample : ic4202-20
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 09:07:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:06:27 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.937	65	198025	500.00	ug/L	0.00
7) pentafluorobenzene	9.140	168	195520	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	298369	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	238358	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	134632	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	89308	48.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 96.74%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	106831	48.14	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 96.28%			
76) toluene-d8 (s)	11.709	98	339791	48.67	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 97.34%			
100) 4-bromofluorobenzene (s)	14.393	95	122060	46.71	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 93.42%			
Target Compounds						Qvalue
2) 1,4-dioxane	10.786	88	19678	521.09	ug/L #	99
3) tertiary butyl alcohol	7.063	59	44942	97.11	ug/L	98
4) ethanol	5.774	46	39718	1018.42	ug/L	72
5) acetonitrile	6.775	40	47849	194.27	ug/L	91
6) iso-butyl alcohol	9.449	41	20870	180.65	ug/L	92
12) chlorodifluoromethane	3.818	51	49133	19.84	ug/L	98
13) dichlorodifluoromethane	3.807	85	64892	19.75	ug/L	96
14) chloromethane	4.101	50	66461	18.54	ug/L	98
15) vinyl chloride	4.326	62	74211	19.55	ug/L	97
16) bromomethane	4.919	94	33273	19.29	ug/L	98
17) chloroethane	5.076	64	32376	18.20	ug/L	99
18) trichlorofluoromethane	5.506	101	66160	19.49	ug/L	94
20) ethyl ether	5.878	74	27450	19.23	ug/L	95
21) 2-chloropropane	6.062	43	77237	19.39	ug/L	99
22) acrolein	6.120	56	118558	185.47	ug/L	98
23) 1,1-dichloroethene	6.277	96	38234	19.56	ug/L	94
24) acetone	6.345	58	5784	19.42	ug/L	90
25) allyl chloride	6.780	76	23277	18.67	ug/L	99
26) iodomethane	6.539	142	67913	20.11	ug/L	96
27) carbon disulfide	6.660	76	139102	18.58	ug/L	97
28) methylene chloride	6.969	84	44370	18.92	ug/L	97
29) methyl acetate	6.791	43	41246	20.00	ug/L	97
30) 1-chloropropane	7.000	41	19180	19.67	ug/L	85
31) methyl tert butyl ether	7.284	73	140341	19.64	ug/L	99
32) trans-1,2-dichloroethene	7.331	96	41008	19.71	ug/L	95
33) di-isopropyl ether	7.871	45	133427	20.07	ug/L	99
34) ethyl tert-butyl ether	8.327	59	141491	19.54	ug/L	99
35) 2-butanone	8.620	72	6067	19.59	ug/L	88
36) 1,1-dichloroethane	7.886	63	75423	19.98	ug/L	97
37) chloroprene	7.997	53	59975	20.63	ug/L	99
38) acrylonitrile	7.294	53	108288	99.85	ug/L	96
39) vinyl acetate	7.902	86	8298	19.51	ug/L	85
40) ethyl acetate	8.620	45	6746	20.66	ug/L	83
41) 2,2-dichloropropane	8.605	77	61373	19.84	ug/L	99
42) cis-1,2-dichloroethene	8.620	96	44974	20.24	ug/L	97
43) propionitrile	8.689	54	86261	197.43	ug/L	77
44) bromochloromethane	8.925	128	21596	19.87	ug/L	94
45) tetrahydrofuran	8.977	42	19214	18.41	ug/L	97
46) chloroform	8.982	85	45280	19.49	ug/L	99
47) t-butyl formate	9.008	59	42857	19.37	ug/L #	87
50) freon 113	6.245	151	29748	19.59	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93432.D
Acq On : 14 Aug 2013 12:43 pm
Operator : tamikag
Sample : ic4202-20
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 09:07:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:06:27 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) methacrylonitrile	8.883	41	25793	19.11	ug/L		99
52) 1,1,1-trichloroethane	9.223	97	58622	20.39	ug/L		99
53) Cyclohexane	9.286	84	71905	19.65	ug/L		99
54) 2,2,4-trimethylpentane	9.659	57	179449	20.36	ug/L	#	94
55) tert-amyl methyl ether	9.695	87	33465	18.54	ug/L		95
58) epichlorohydrin	11.331	57	25930	97.88	ug/L		96
59) n-butyl alcohol	10.199	56	105995	1026.23	ug/L		99
60) carbon tetrachloride	9.423	117	50272	20.02	ug/L		98
61) 1,1-dichloropropene	9.412	75	56281	20.10	ug/L		98
62) hexane	7.630	57	54779	20.42	ug/L		97
63) benzene	9.664	78	166243	20.42	ug/L		99
64) heptane	9.842	57	31036	20.59	ug/L		96
65) isopropyl acetate	9.611	43	82074	18.76	ug/L		98
66) 1,2-dichloroethane	9.690	62	53567	20.22	ug/L		95
67) trichloroethene	10.393	95	39715	20.46	ug/L		99
68) 2-nitropropane	11.184	41	17768	20.28	ug/L	#	8
69) 2-chloroethyl vinyl ether	11.200	63	138053	98.72	ug/L		100
70) methyl methacrylate	10.686	100	12147	19.66	ug/L		91
71) 1,2-dichloropropane	10.650	63	43461	20.01	ug/L		95
72) methylcyclohexane	10.597	83	75648	19.69	ug/L		99
73) dibromomethane	10.823	93	24913	19.63	ug/L		98
74) bromodichloromethane	10.954	83	49669	19.83	ug/L		100
75) cis-1,3-dichloropropene	11.420	75	63806	19.07	ug/L		97
77) 4-methyl-2-pentanone	11.525	58	22083	20.26	ug/L		87
78) toluene	11.782	92	94555	20.40	ug/L		100
79) 3-methyl-1-butanol	11.557	70	43109	410.64	ug/L		99
80) trans-1,3-dichloropropene	11.997	75	55583	19.31	ug/L		95
81) ethyl methacrylate	11.997	69	56227	20.24	ug/L		99
82) 1,1,2-trichloroethane	12.207	83	27874	19.17	ug/L		96
83) 2-hexanone	12.406	58	15429	17.95	ug/L		90
85) tetrachloroethene	12.375	166	39401	20.58	ug/L		98
86) 1,3-dichloropropane	12.390	76	58451	20.08	ug/L		99
87) butyl acetate	12.474	56	27395	20.02	ug/L		96
88) 3,3-dimethyl-1-butanol	12.563	57	82020	193.74	ug/L		97
89) dibromochloromethane	12.652	129	36263	20.11	ug/L		98
90) 1,2-dibromoethane	12.799	107	33884	19.98	ug/L		100
91) chlorobenzene	13.261	112	98887	19.81	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.323	131	39288	19.74	ug/L		99
93) ethylbenzene	13.323	91	175411	20.29	ug/L		97
94) m,p-xylene	13.428	106	138585	41.10	ug/L		98
95) o-xylene	13.848	106	71219	20.58	ug/L		99
96) styrene	13.864	104	110414	19.82	ug/L		99
97) bromoform	14.120	173	25903	19.34	ug/L		98
99) isopropylbenzene	14.189	105	188271	20.34	ug/L		99
101) bromobenzene	14.582	156	42781	19.91	ug/L		91
102) cyclohexanone	14.351	55	46247	212.88	ug/L		97
103) 1,1,2,2-tetrachloroethane	14.498	83	55677	18.76	ug/L		98
104) trans-1,4-dichloro-2-b...	14.545	53	13094	18.12	ug/L		92
105) 1,2,3-trichloropropane	14.566	110	14895	19.56	ug/L		97
106) n-propylbenzene	14.598	91	209391	20.10	ug/L		99
107) 2-chlorotoluene	14.739	126	43010	19.69	ug/L		93
108) 4-chlorotoluene	14.839	91	125850	19.09	ug/L		99
109) 1,3,5-trimethylbenzene	14.750	105	162855	19.38	ug/L		98
110) tert-butylbenzene	15.090	119	133695	19.95	ug/L		97
111) pentachloroethane	15.169	167	30382	19.55	ug/L		96
112) 1,2,4-trimethylbenzene	15.143	105	159273	19.87	ug/L		99
113) sec-butylbenzene	15.305	105	207153	19.99	ug/L		98
114) 1,3-dichlorobenzene	15.494	146	82533	19.05	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93432.D
Acq On : 14 Aug 2013 12:43 pm
Operator : tamikag
Sample : ic4202-20
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 09:07:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:06:27 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
115) p-isopropyltoluene	15.426	119	173004	20.17 ug/L	99
116) 1,2,3-TRIMETHYLBENZENE	15.578	105	172542	19.16 ug/L	98
117) 1,4-dichlorobenzene	15.578	146	86973	18.92 ug/L	98
118) 1,2-dichlorobenzene	15.956	146	88537	19.61 ug/L	99
119) n-butylbenzene	15.835	92	91525	19.90 ug/L	99
120) 1,2-dibromo-3-chloropr...	16.690	75	13336	20.21 ug/L	95
121) 1,3,5-trichlorobenzene	16.868	180	79805	19.81 ug/L	100
122) 1,2,4-trichlorobenzene	17.434	180	76251	19.21 ug/L	99
123) hexachlorobutadiene	17.534	225	35649	19.17 ug/L	98
124) naphthalene	17.680	128	214529	20.45 ug/L	99
125) 1,2,3-trichlorobenzene	17.901	180	74278	20.70 ug/L	99
126) hexachloroethane	16.202	119	31127	19.55 ug/L	98
127) Benzyl chloride	15.693	91	113692	19.43 ug/L	99

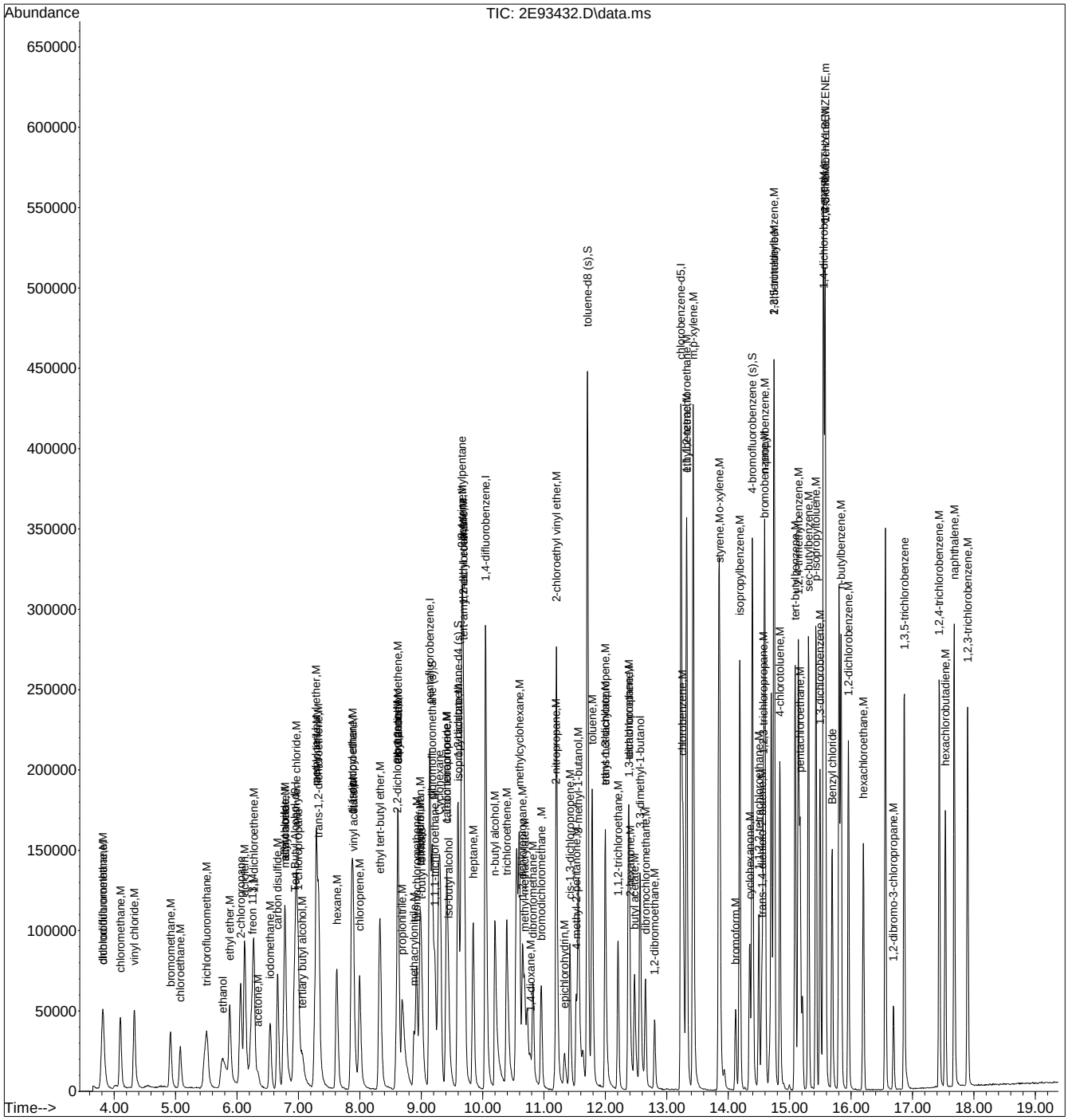
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.5
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93432.D
Acq On : 14 Aug 2013 12:43 pm
Operator : tamikag
Sample : ic4202-20
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 09:07:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:06:27 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93433.D
Acq On : 14 Aug 2013 1:12 pm
Operator : tamikag
Sample : icc4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 09:15:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:14:10 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.943	65	203206	500.00	ug/L	0.00
7) pentafluorobenzene	9.139	168	197746	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	306465	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	246851	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	135827	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.181	113	89135	47.74	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 95.48%			
49) 1,2-dichloroethane-d4 (s)	9.595	65	108486	48.33	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 96.66%			
76) toluene-d8 (s)	11.708	98	344977	48.10	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 96.20%			
100) 4-bromofluorobenzene (s)	14.393	95	122608	46.51	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 93.02%			
Target Compounds						Qvalue
2) 1,4-dioxane	10.775	88	50120	1293.39	ug/L #	100
3) tertiary butyl alcohol	7.058	59	111838	235.49	ug/L	100
4) ethanol	5.758	46	89569	2238.10	ug/L	72
5) acetonitrile	6.749	40	124969	494.45	ug/L	100
6) iso-butyl alcohol	9.438	41	58097	490.07	ug/L	99
12) chlorodifluoromethane	3.818	51	118210	47.20	ug/L	100
13) dichlorodifluoromethane	3.802	85	153146	46.09	ug/L	100
14) chloromethane	4.101	50	161260	44.47	ug/L	100
15) vinyl chloride	4.331	62	174520	45.46	ug/L	100
16) bromomethane	4.908	94	72380	41.48	ug/L	100
17) chloroethane	5.071	64	71925	39.97	ug/L	100
18) trichlorofluoromethane	5.506	101	155918	45.42	ug/L	100
20) ethyl ether	5.878	74	66647	46.16	ug/L	100
21) 2-chloropropane	6.056	43	185127	45.95	ug/L	100
22) acrolein	6.114	56	301871	466.93	ug/L	100
23) 1,1-dichloroethene	6.271	96	91499	46.27	ug/L	100
24) acetone	6.334	58	14617	48.52	ug/L	100
25) allyl chloride	6.775	76	58818	46.65	ug/L	100
26) iodomethane	6.539	142	164061	48.04	ug/L	100
27) carbon disulfide	6.654	76	336941	44.50	ug/L	100
28) methylene chloride	6.963	84	109576	46.20	ug/L	100
29) methyl acetate	6.775	43	101078	48.45	ug/L	100
30) 1-chloropropane	6.995	41	46151	46.81	ug/L	100
31) methyl tert butyl ether	7.278	73	346630	47.96	ug/L	100
32) trans-1,2-dichloroethene	7.325	96	99342	47.22	ug/L	100
33) di-isopropyl ether	7.860	45	337296	50.17	ug/L	100
34) ethyl tert-butyl ether	8.321	59	363505	49.64	ug/L	100
35) 2-butanone	8.605	72	16741	53.44	ug/L	100
36) 1,1-dichloroethane	7.881	63	183182	47.98	ug/L	100
37) chloroprene	7.991	53	146427	49.80	ug/L	100
38) acrylonitrile	7.289	53	272532	248.46	ug/L	100
39) vinyl acetate	7.886	86	21599	50.22	ug/L	100
40) ethyl acetate	8.615	45	17257	52.25	ug/L	100
41) 2,2-dichloropropane	8.605	77	147860	47.27	ug/L	100
42) cis-1,2-dichloroethene	8.615	96	111080	49.43	ug/L	100
43) propionitrile	8.678	54	224469	507.96	ug/L	100
44) bromochloromethane	8.919	128	54148	49.26	ug/L	100
45) tetrahydrofuran	8.966	42	48620	46.06	ug/L	100
46) chloroform	8.977	85	108695	46.25	ug/L	100
47) t-butyl formate	9.003	59	112218	50.16	ug/L	100
50) freon 113	6.245	151	73271	47.70	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93433.D
Acq On : 14 Aug 2013 1:12 pm
Operator : tamikag
Sample : icc4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 09:15:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:14:10 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) methacrylonitrile	8.867	41	71814	52.61	ug/L		100
52) 1,1,1-trichloroethane	9.218	97	141175	48.55	ug/L		100
53) Cyclohexane	9.286	84	174086	47.04	ug/L		100
54) 2,2,4-trimethylpentane	9.658	57	432876	48.56	ug/L	#	100
55) tert-amyl methyl ether	9.695	87	83427	45.71	ug/L		100
58) epichlorohydrin	11.320	57	70470	258.99	ug/L		100
59) n-butyl alcohol	10.188	56	285683	2692.89	ug/L		100
60) carbon tetrachloride	9.422	117	122288	47.40	ug/L		100
61) 1,1-dichloropropene	9.402	75	137033	47.65	ug/L		100
62) hexane	7.619	57	131977	47.90	ug/L		100
63) benzene	9.664	78	403396	48.23	ug/L		100
64) heptane	9.842	57	71967	46.48	ug/L		100
65) isopropyl acetate	9.601	43	220790	49.13	ug/L		100
66) 1,2-dichloroethane	9.685	62	135090	49.65	ug/L		100
67) trichloroethene	10.387	95	96928	48.62	ug/L		100
68) 2-nitropropane	11.174	41	43923	48.81	ug/L		100
69) 2-chloroethyl vinyl ether	11.195	63	354981	247.14	ug/L		100
70) methyl methacrylate	10.676	100	31720	49.98	ug/L		100
71) 1,2-dichloropropane	10.649	63	109789	49.21	ug/L		100
72) methylcyclohexane	10.597	83	184889	46.86	ug/L		100
73) dibromomethane	10.817	93	62759	48.13	ug/L		100
74) bromodichloromethane	10.948	83	125368	48.72	ug/L		100
75) cis-1,3-dichloropropene	11.415	75	167036	48.61	ug/L		100
77) 4-methyl-2-pentanone	11.520	58	55889	49.91	ug/L		100
78) toluene	11.782	92	234496	49.24	ug/L		100
79) 3-methyl-1-butanol	11.551	70	116033	1076.08	ug/L		100
80) trans-1,3-dichloropropene	11.992	75	143457	48.52	ug/L		100
81) ethyl methacrylate	11.992	69	146204	51.24	ug/L		100
82) 1,1,2-trichloroethane	12.201	83	72150	48.32	ug/L		100
83) 2-hexanone	12.390	58	43606	49.40	ug/L		100
85) tetrachloroethene	12.369	166	96126	48.47	ug/L		100
86) 1,3-dichloropropane	12.385	76	150720	50.00	ug/L		100
87) butyl acetate	12.463	56	73610	51.95	ug/L		100
88) 3,3-dimethyl-1-butanol	12.563	57	221464	505.13	ug/L		100
89) dibromochloromethane	12.652	129	93668	50.16	ug/L		100
90) 1,2-dibromoethane	12.794	107	86689	49.37	ug/L		100
91) chlorobenzene	13.260	112	251749	48.70	ug/L		100
92) 1,1,1,2-tetrachloroethane	13.323	131	100165	48.60	ug/L		100
93) ethylbenzene	13.318	91	432500	48.32	ug/L		100
94) m,p-xylene	13.428	106	341633	97.83	ug/L		100
95) o-xylene	13.842	106	178955	49.93	ug/L		100
96) styrene	13.858	104	278952	48.36	ug/L		100
97) bromoform	14.120	173	68081	49.09	ug/L		100
99) isopropylbenzene	14.188	105	464646	49.77	ug/L		100
101) bromobenzene	14.582	156	106989	49.36	ug/L		100
102) cyclohexanone	14.346	55	106155	484.35	ug/L		100
103) 1,1,2,2-tetrachloroethane	14.498	83	139215	46.50	ug/L		100
104) trans-1,4-dichloro-2-b...	14.540	53	34878	47.85	ug/L		100
105) 1,2,3-trichloropropane	14.566	110	37541	48.88	ug/L		100
106) n-propylbenzene	14.597	91	512197	48.73	ug/L		100
107) 2-chlorotoluene	14.739	126	106663	48.39	ug/L		100
108) 4-chlorotoluene	14.839	91	314173	47.24	ug/L		100
109) 1,3,5-trimethylbenzene	14.749	105	403951	47.64	ug/L		100
110) tert-butylbenzene	15.090	119	342171	50.60	ug/L		100
111) pentachloroethane	15.169	167	78587	50.12	ug/L		100
112) 1,2,4-trimethylbenzene	15.137	105	396546	49.04	ug/L		100
113) sec-butylbenzene	15.305	105	513912	49.16	ug/L		100
114) 1,3-dichlorobenzene	15.494	146	208109	47.62	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93433.D
Acq On : 14 Aug 2013 1:12 pm
Operator : tamikag
Sample : icc4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 09:15:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:14:10 2013
Response via : Initial Calibration

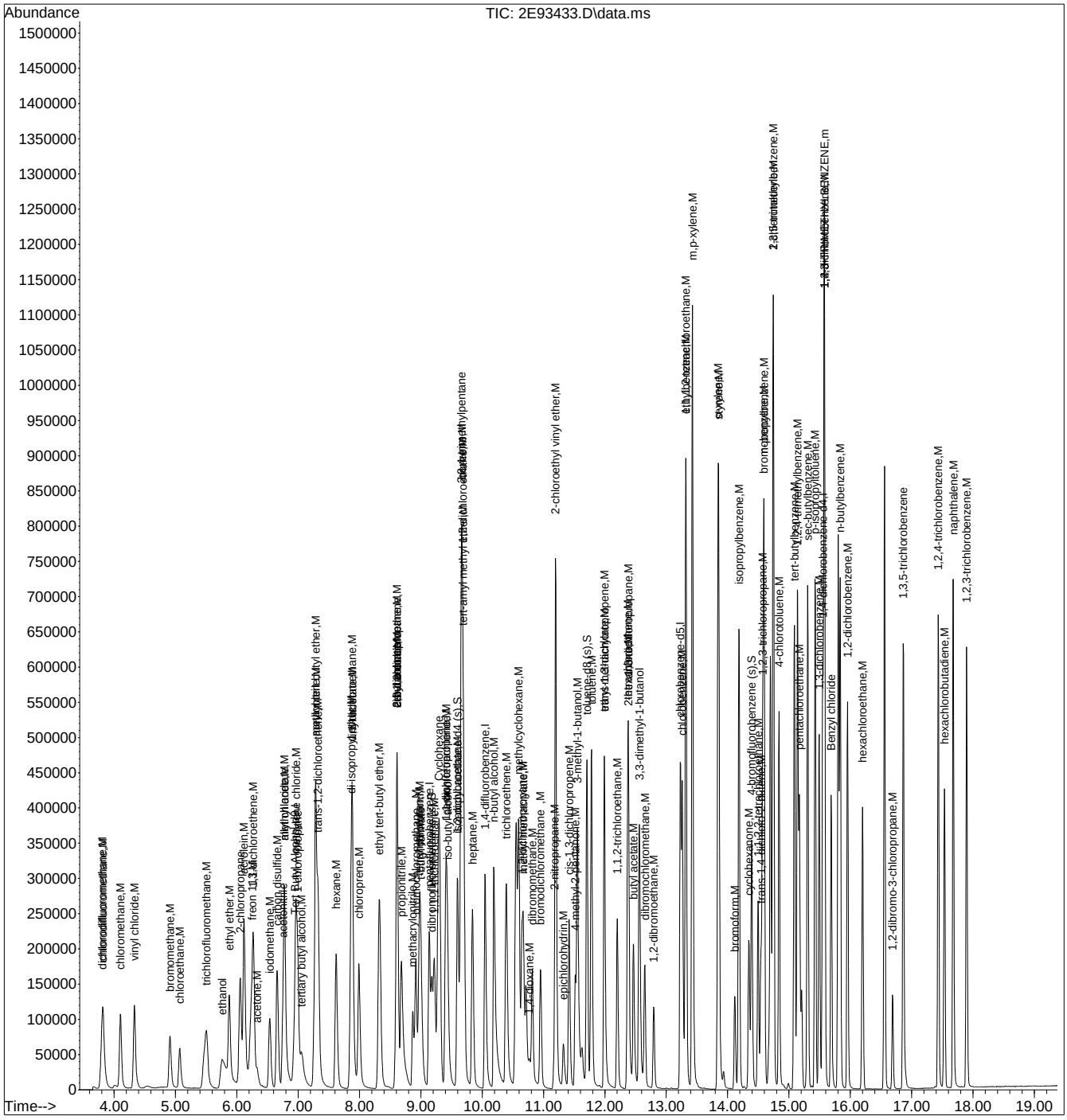
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) p-isopropyltoluene	15.426	119	432949	50.04	ug/L	100
116) 1,2,3-TRIMETHYLBENZENE	15.578	105	431937	47.55	ug/L	100
117) 1,4-dichlorobenzene	15.578	146	217147	46.83	ug/L	100
118) 1,2-dichlorobenzene	15.955	146	221162	48.55	ug/L	100
119) n-butylbenzene	15.835	92	226395	48.80	ug/L	100
120) 1,2-dibromo-3-chloropr...	16.689	75	33262	49.95	ug/L	100
121) 1,3,5-trichlorobenzene	16.868	180	198772	48.91	ug/L	100
122) 1,2,4-trichlorobenzene	17.434	180	195346	48.77	ug/L	100
123) hexachlorobutadiene	17.539	225	89808	47.87	ug/L	100
124) naphthalene	17.680	128	542985	51.32	ug/L	100
125) 1,2,3-trichlorobenzene	17.895	180	185829	51.34	ug/L	100
126) hexachloroethane	16.202	119	81126	50.50	ug/L	100
127) Benzyl chloride	15.688	91	294060	49.81	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93433.D
Acq On : 14 Aug 2013 1:12 pm
Operator : tamikag
Sample : icc4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 09:15:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:14:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93434.D
Acq On : 14 Aug 2013 1:41 pm
Operator : tamikag
Sample : ic4202-100
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 09:21:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.948	65	190566	500.00	ug/L	0.00
7) pentafluorobenzene	9.134	168	202119	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	320451	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	265490	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	140208	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	186841	97.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery =	195.80%#		
49) 1,2-dichloroethane-d4 (s)	9.590	65	227159	99.02	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	198.04%#		
76) toluene-d8 (s)	11.703	98	745187	99.37	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery =	198.74%#		
100) 4-bromofluorobenzene (s)	14.393	95	265998	97.75	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery =	195.50%#		
Target Compounds						Qvalue
2) 1,4-dioxane	10.770	88	97053	2670.66	ug/L #	96
3) tertiary butyl alcohol	7.058	59	216398	485.87	ug/L	99
4) ethanol	5.773	46	184742	4922.43	ug/L #	48
5) acetonitrile	6.749	40	246697	1040.83	ug/L	94
6) iso-butyl alcohol	9.438	41	116456	1047.51	ug/L	98
12) chlorodifluoromethane	3.818	51	245880	96.06	ug/L	98
13) dichlorodifluoromethane	3.797	85	311729	91.78	ug/L	96
14) chloromethane	4.111	50	355986	96.04	ug/L	100
15) vinyl chloride	4.337	62	383066	97.62	ug/L	98
18) trichlorofluoromethane	5.501	101	326372	93.01	ug/L	99
20) ethyl ether	5.873	74	139340	94.42	ug/L	99
21) 2-chloropropane	6.051	43	391153	94.98	ug/L	99
22) acrolein	6.114	56	604298	914.49	ug/L	99
23) 1,1-dichloroethene	6.272	96	198506	98.22	ug/L	97
24) acetone	6.324	58	29660	96.33	ug/L	98
25) allyl chloride	6.775	76	125132	97.09	ug/L	92
26) iodomethane	6.534	142	354793	101.64	ug/L	100
27) carbon disulfide	6.654	76	732681	94.67	ug/L	99
28) methylene chloride	6.964	84	234263	96.63	ug/L	100
29) methyl acetate	6.770	43	208141	97.61	ug/L	100
30) 1-chloropropane	6.990	41	97811	97.06	ug/L	96
31) methyl tert butyl ether	7.278	73	738832	100.02	ug/L	99
32) trans-1,2-dichloroethene	7.320	96	212747	98.93	ug/L	98
33) di-isopropyl ether	7.865	45	716860	104.31	ug/L #	50
34) ethyl tert-butyl ether	8.322	59	773452	103.33	ug/L	100
35) 2-butanone	8.599	72	36203	113.06	ug/L	95
36) 1,1-dichloroethane	7.881	63	391070	100.21	ug/L	99
37) chloroprene	7.986	53	312956	104.13	ug/L	98
38) acrylonitrile	7.283	53	563091	502.25	ug/L	99
39) vinyl acetate	7.876	86	51632	117.46	ug/L	75
40) ethyl acetate	8.610	45	36654	108.57	ug/L	85
41) 2,2-dichloropropane	8.605	77	311497	97.42	ug/L	99
42) cis-1,2-dichloroethene	8.610	96	234522	102.10	ug/L	99
43) propionitrile	8.673	54	461962	1022.78	ug/L	78
44) bromochloromethane	8.919	128	115162	102.51	ug/L	97
45) tetrahydrofuran	8.961	42	102120	94.65	ug/L	99
46) chloroform	8.977	85	231967	96.57	ug/L	98
47) t-butyl formate	9.003	59	240385	105.12	ug/L	99
50) freon 113	6.235	151	151499	96.49	ug/L	93
51) methacrylonitrile	8.862	41	156226	111.98	ug/L	98
52) 1,1,1-trichloroethane	9.218	97	303646	102.16	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93434.D
Acq On : 14 Aug 2013 1:41 pm
Operator : tamikag
Sample : ic4202-100
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 09:21:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Cyclohexane	9.286	84	369038	97.56	ug/L	99
54) 2,2,4-trimethylpentane	9.659	57	938763	103.03	ug/L #	99
55) tert-amyl methyl ether	9.695	87	178084	95.46	ug/L	97
58) epichlorohydrin	11.321	57	148841	523.14	ug/L	97
59) n-butyl alcohol	10.188	56	578111	5211.52	ug/L	97
60) carbon tetrachloride	9.423	117	262893	97.46	ug/L	97
61) 1,1-dichloropropene	9.402	75	295809	98.38	ug/L	99
62) hexane	7.614	57	278601	96.70	ug/L	98
63) benzene	9.659	78	881472	100.80	ug/L	99
64) heptane	9.842	57	156577	96.72	ug/L	97
65) isopropyl acetate	9.596	43	470708	100.17	ug/L	99
66) 1,2-dichloroethane	9.680	62	289257	101.68	ug/L	98
67) trichloroethene	10.387	95	212548	101.97	ug/L	97
68) 2-nitropropane	11.169	41	96551	102.60	ug/L	84
69) 2-chloroethyl vinyl ether	11.195	63	776803	517.21	ug/L	99
70) methyl methacrylate	10.670	100	71313	107.46	ug/L	90
71) 1,2-dichloropropane	10.644	63	239839	102.81	ug/L	97
72) methylcyclohexane	10.597	83	392673	95.17	ug/L	99
73) dibromomethane	10.812	93	136904	100.42	ug/L	98
74) bromodichloromethane	10.948	83	280766	104.34	ug/L	100
75) cis-1,3-dichloropropene	11.415	75	371293	103.34	ug/L	99
77) 4-methyl-2-pentanone	11.515	58	117431	100.29	ug/L	88
78) toluene	11.777	92	523292	105.10	ug/L	98
79) 3-methyl-1-butanol	11.551	70	228484	2026.47	ug/L	99
80) trans-1,3-dichloropropene	11.986	75	322385	104.28	ug/L	97
81) ethyl methacrylate	11.986	69	321862	107.89	ug/L	99
82) 1,1,2-trichloroethane	12.201	83	160230	102.62	ug/L	98
83) 2-hexanone	12.380	58	93713	101.54	ug/L	98
85) tetrachloroethene	12.369	166	211890	99.34	ug/L	98
86) 1,3-dichloropropane	12.380	76	331299	102.20	ug/L	98
87) butyl acetate	12.458	56	157622	103.44	ug/L	95
88) 3,3-dimethyl-1-butanol	12.558	57	425027	901.37	ug/L	98
89) dibromochloromethane	12.647	129	212663	105.88	ug/L	100
90) 1,2-dibromoethane	12.794	107	191427	101.36	ug/L	95
91) chlorobenzene	13.261	112	558517	100.46	ug/L	98
92) 1,1,1,2-tetrachloroethane	13.318	131	217295	98.04	ug/L	98
93) ethylbenzene	13.318	91	956171	99.32	ug/L	98
94) m,p-xylene	13.423	106	751305	200.05	ug/L	99
95) o-xylene	13.842	106	387108	100.43	ug/L	99
96) styrene	13.858	104	618854	99.75	ug/L	99
97) bromoform	14.115	173	151438	101.53	ug/L	98
99) isopropylbenzene	14.183	105	1021337	105.97	ug/L	99
101) bromobenzene	14.577	156	233677	104.44	ug/L	85
102) cyclohexanone	14.346	55	209250	924.90	ug/L	98
103) 1,1,2,2-tetrachloroethane	14.498	83	297851	96.37	ug/L	98
104) trans-1,4-dichloro-2-b...	14.540	53	75814	100.76	ug/L	95
105) 1,2,3-trichloropropane	14.566	110	80268	101.24	ug/L	97
106) n-propylbenzene	14.592	91	1121774	103.38	ug/L	100
107) 2-chlorotoluene	14.739	126	233114	102.46	ug/L	93
108) 4-chlorotoluene	14.839	91	690115	100.53	ug/L	100
109) 1,3,5-trimethylbenzene	14.750	105	880533	100.60	ug/L	98
110) tert-butylbenzene	15.090	119	751945	107.72	ug/L	100
111) pentachloroethane	15.169	167	171875	106.20	ug/L	98
112) 1,2,4-trimethylbenzene	15.138	105	883064	105.80	ug/L	98
113) sec-butylbenzene	15.305	105	1132725	104.98	ug/L	100
114) 1,3-dichlorobenzene	15.489	146	457671	101.46	ug/L	98
115) p-isopropyltoluene	15.426	119	948415	106.20	ug/L	99
116) 1,2,3-TRIMETHYLBENZENE	15.578	105	954649	101.82	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93434.D
Acq On : 14 Aug 2013 1:41 pm
Operator : tamikag
Sample : ic4202-100
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 09:21:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

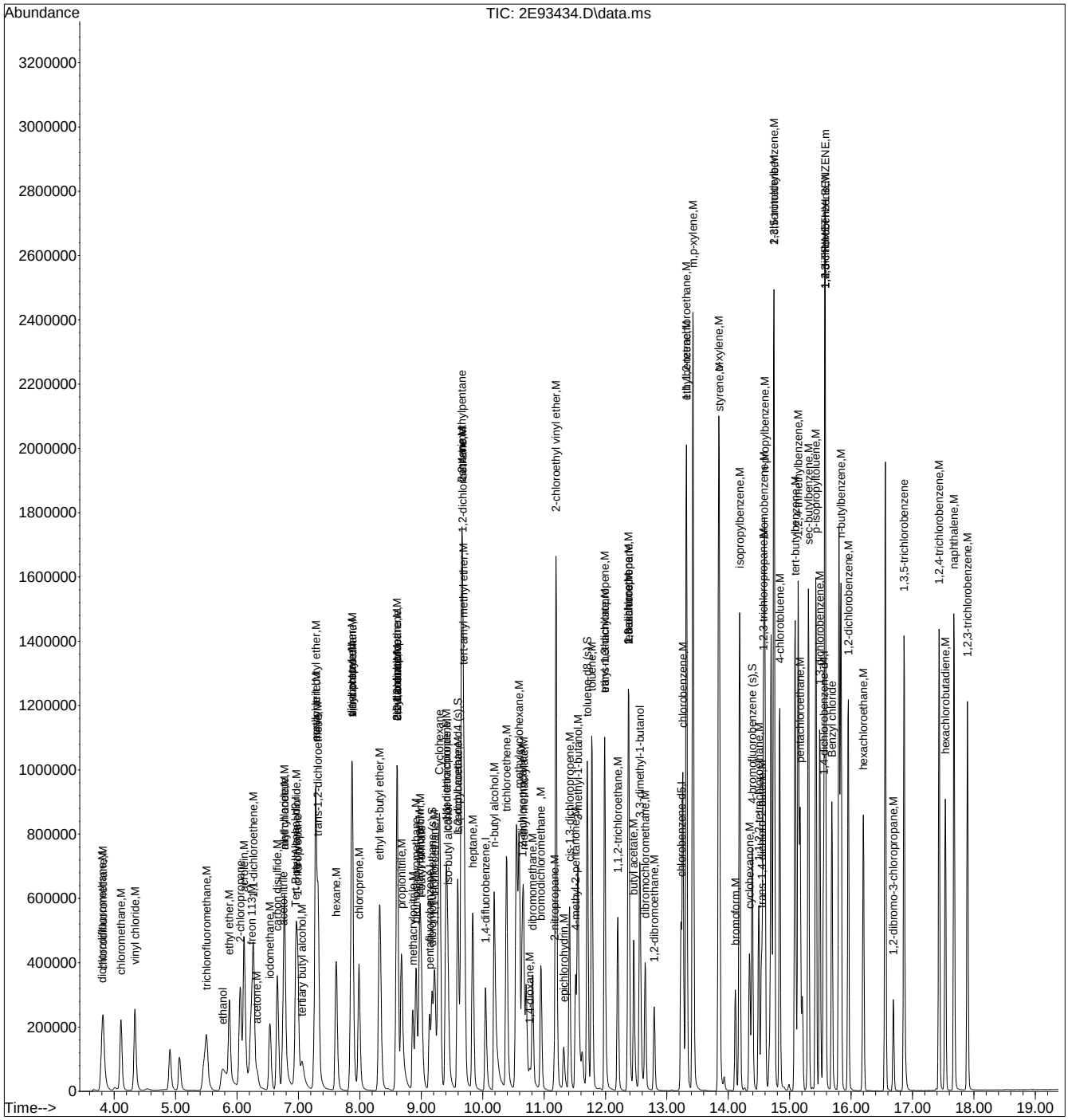
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
117) 1,4-dichlorobenzene	15.573	146	469338	98.06	ug/L	98
118) 1,2-dichlorobenzene	15.955	146	478525	101.76	ug/L	100
119) n-butylbenzene	15.835	92	496987	103.77	ug/L	98
120) 1,2-dibromo-3-chloropr...	16.689	75	68813	100.12	ug/L	96
121) 1,3,5-trichlorobenzene	16.862	180	425424	101.41	ug/L	100
122) 1,2,4-trichlorobenzene	17.434	180	405885	98.17	ug/L	98
123) hexachlorobutadiene	17.539	225	188751	97.47	ug/L	100
124) naphthalene	17.675	128	1077351	98.63	ug/L	99
125) 1,2,3-trichlorobenzene	17.895	180	360432	96.47	ug/L	99
126) hexachloroethane	16.202	119	182854	110.26	ug/L	98
127) Benzyl chloride	15.688	91	629209	103.24	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93434.D
Acq On : 14 Aug 2013 1:41 pm
Operator : tamikag
Sample : ic4202-100
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 09:21:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93435.D
Acq On : 14 Aug 2013 2:10 pm
Operator : tamikag
Sample : ic4202-200
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 09:19:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:18:52 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.964	65	198957	500.00	ug/L	0.02
7) pentafluorobenzene	9.134	168	207443	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	334103	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	283399	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	154766	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.171	113	369013	188.38	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 117		Recovery = 376.76%#			
49) 1,2-dichloroethane-d4 (s)	9.585	65	457804	194.43	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 388.86%#			
76) toluene-d8 (s)	11.703	98	1521261	194.58	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 389.16%#			
100) 4-bromofluorobenzene (s)	14.388	95	565363	188.22	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 376.44%#			
Target Compounds						Qvalue
2) 1,4-dioxane	10.770	88	192531	5074.54	ug/L #	91
3) tertiary butyl alcohol	7.069	59	418875	900.82	ug/L	98
4) ethanol	5.779	46	366371	9350.20	ug/L #	17
5) acetonitrile	6.754	40	476120	1924.06	ug/L	94
6) iso-butyl alcohol	9.438	41	234149	2017.32	ug/L	99
12) chlorodifluoromethane	3.818	51	484380	184.38	ug/L	96
13) dichlorodifluoromethane	3.792	85	610396	175.10	ug/L	98
14) chloromethane	4.111	50	701466	184.39	ug/L	99
15) vinyl chloride	4.342	62	768367	190.79	ug/L	98
18) trichlorofluoromethane	5.490	101	605929	168.25	ug/L	97
20) ethyl ether	5.873	74	260102	171.73	ug/L	95
21) 2-chloropropane	6.046	43	770830	182.38	ug/L	99
22) acrolein	6.114	56	1238903	1826.72	ug/L	100
23) 1,1-dichloroethene	6.266	96	391020	188.50	ug/L	95
24) acetone	6.329	58	58360	184.67	ug/L	99
25) allyl chloride	6.770	76	244671	184.97	ug/L #	87
26) iodomethane	6.528	142	699250	195.18	ug/L	98
27) carbon disulfide	6.654	76	1454028	183.04	ug/L	99
28) methylene chloride	6.958	84	459294	184.58	ug/L	99
29) methyl acetate	6.764	43	413831	189.09	ug/L	99
30) 1-chloropropane	6.985	41	192378	186.00	ug/L	91
31) methyl tert butyl ether	7.278	73	1426340	188.13	ug/L	98
32) trans-1,2-dichloroethene	7.315	96	405058	183.52	ug/L	97
33) di-isopropyl ether	7.860	45	1404543	199.14	ug/L #	39
34) ethyl tert-butyl ether	8.322	59	1535478	199.87	ug/L	99
35) 2-butanone	8.589	72	70836	215.54	ug/L	97
36) 1,1-dichloroethane	7.876	63	749647	187.17	ug/L	99
37) chloroprene	7.981	53	604938	196.11	ug/L	97
38) acrylonitrile	7.278	53	1089969	947.25	ug/L	99
39) vinyl acetate	7.871	86	101334	224.61	ug/L	69
40) ethyl acetate	8.599	45	73638	212.53	ug/L	66
41) 2,2-dichloropropane	8.599	77	601686	183.36	ug/L	99
42) cis-1,2-dichloroethene	8.605	96	451400	191.48	ug/L	99
43) propionitrile	8.673	54	911896	1967.11	ug/L #	52
44) bromochloromethane	8.914	128	225483	195.55	ug/L	98
45) tetrahydrofuran	8.956	42	198065	178.86	ug/L	99
46) chloroform	8.972	85	447207	181.40	ug/L	99
47) t-butyl formate	8.998	59	473858	201.91	ug/L	98
50) freon 113	6.230	151	294341	182.65	ug/L	93
51) methacrylonitrile	8.856	41	313470	218.92	ug/L	98
52) 1,1,1-trichloroethane	9.213	97	589911	193.37	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93435.D
Acq On : 14 Aug 2013 2:10 pm
Operator : tamikag
Sample : ic4202-200
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 09:19:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:18:52 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Cyclohexane	9.286	84	715183	184.21	ug/L		98
54) 2,2,4-trimethylpentane	9.659	57	1820907	194.72	ug/L	#	100
55) tert-amyl methyl ether	9.695	87	353674	184.71	ug/L		92
58) epichlorohydrin	11.315	57	313331	1056.28	ug/L		97
59) n-butyl alcohol	10.188	56	1171450	10128.81	ug/L		99
60) carbon tetrachloride	9.417	117	511591	181.90	ug/L		98
61) 1,1-dichloropropene	9.396	75	572913	182.75	ug/L		99
62) hexane	7.609	57	529504	176.28	ug/L		98
63) benzene	9.659	78	1690301	185.39	ug/L		99
64) heptane	9.837	57	305798	181.17	ug/L		99
65) isopropyl acetate	9.596	43	936302	191.11	ug/L		99
66) 1,2-dichloroethane	9.674	62	570266	192.26	ug/L		98
67) trichloroethene	10.382	95	413685	190.36	ug/L		98
68) 2-nitropropane	11.169	41	196753	200.54	ug/L		99
69) 2-chloroethyl vinyl ether	11.195	63	1579212	1008.50	ug/L		98
70) methyl methacrylate	10.665	100	144156	208.35	ug/L	#	88
71) 1,2-dichloropropane	10.644	63	470423	193.42	ug/L		98
72) methylcyclohexane	10.592	83	763729	177.54	ug/L		99
73) dibromomethane	10.812	93	271586	191.06	ug/L		98
74) bromodichloromethane	10.948	83	557723	198.80	ug/L		100
75) cis-1,3-dichloropropene	11.415	75	752889	200.99	ug/L		98
77) 4-methyl-2-pentanone	11.509	58	232944	190.81	ug/L		85
78) toluene	11.777	92	1045731	201.44	ug/L		98
79) 3-methyl-1-butanol	11.551	70	453521	3858.00	ug/L		98
80) trans-1,3-dichloropropene	11.986	75	660625	204.96	ug/L		98
81) ethyl methacrylate	11.986	69	643144	206.77	ug/L		99
82) 1,1,2-trichloroethane	12.196	83	322029	197.82	ug/L		99
83) 2-hexanone	12.380	58	192496	200.05	ug/L		98
85) tetrachloroethene	12.369	166	420586	184.72	ug/L		100
86) 1,3-dichloropropane	12.380	76	671737	194.12	ug/L		99
87) butyl acetate	12.458	56	324442	199.46	ug/L		97
88) 3,3-dimethyl-1-butanol	12.563	57	815079	1619.33	ug/L		100
89) dibromochloromethane	12.647	129	432931	201.93	ug/L		99
90) 1,2-dibromoethane	12.794	107	389002	192.95	ug/L		97
91) chlorobenzene	13.261	112	1138144	191.77	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.323	131	430371	181.90	ug/L		97
93) ethylbenzene	13.318	91	1893087	184.21	ug/L		97
94) m,p-xylene	13.423	106	1488542	371.30	ug/L		98
95) o-xylene	13.843	106	771110	187.41	ug/L		100
96) styrene	13.858	104	1247937	188.43	ug/L		99
97) bromoform	14.115	173	312434	196.22	ug/L		98
99) isopropylbenzene	14.183	105	2018708	189.76	ug/L		99
101) bromobenzene	14.577	156	475712	192.61	ug/L		91
102) cyclohexanone	14.346	55	406881	1629.28	ug/L		99
103) 1,1,2,2-tetrachloroethane	14.498	83	596407	174.82	ug/L		99
104) trans-1,4-dichloro-2-b...	14.540	53	158306	190.61	ug/L		94
105) 1,2,3-trichloropropane	14.566	110	158490	181.10	ug/L		96
106) n-propylbenzene	14.598	91	2226400	185.88	ug/L		98
107) 2-chlorotoluene	14.739	126	468933	186.72	ug/L		94
108) 4-chlorotoluene	14.839	91	1402739	185.11	ug/L		99
109) 1,3,5-trimethylbenzene	14.750	105	1759267	182.09	ug/L		98
110) tert-butylbenzene	15.090	119	1519709	197.24	ug/L		99
111) pentachloroethane	15.174	167	350059	195.95	ug/L		95
112) 1,2,4-trimethylbenzene	15.138	105	1781688	193.38	ug/L		99
113) sec-butylbenzene	15.305	105	2259636	189.72	ug/L		100
114) 1,3-dichlorobenzene	15.489	146	936150	188.00	ug/L		98
115) p-isopropyltoluene	15.426	119	1900396	192.77	ug/L		98
116) 1,2,3-TRIMETHYLBENZENE	15.578	105	1949337	188.35	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93435.D
Acq On : 14 Aug 2013 2:10 pm
Operator : tamikag
Sample : ic4202-200
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 09:19:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:18:52 2013
Response via : Initial Calibration

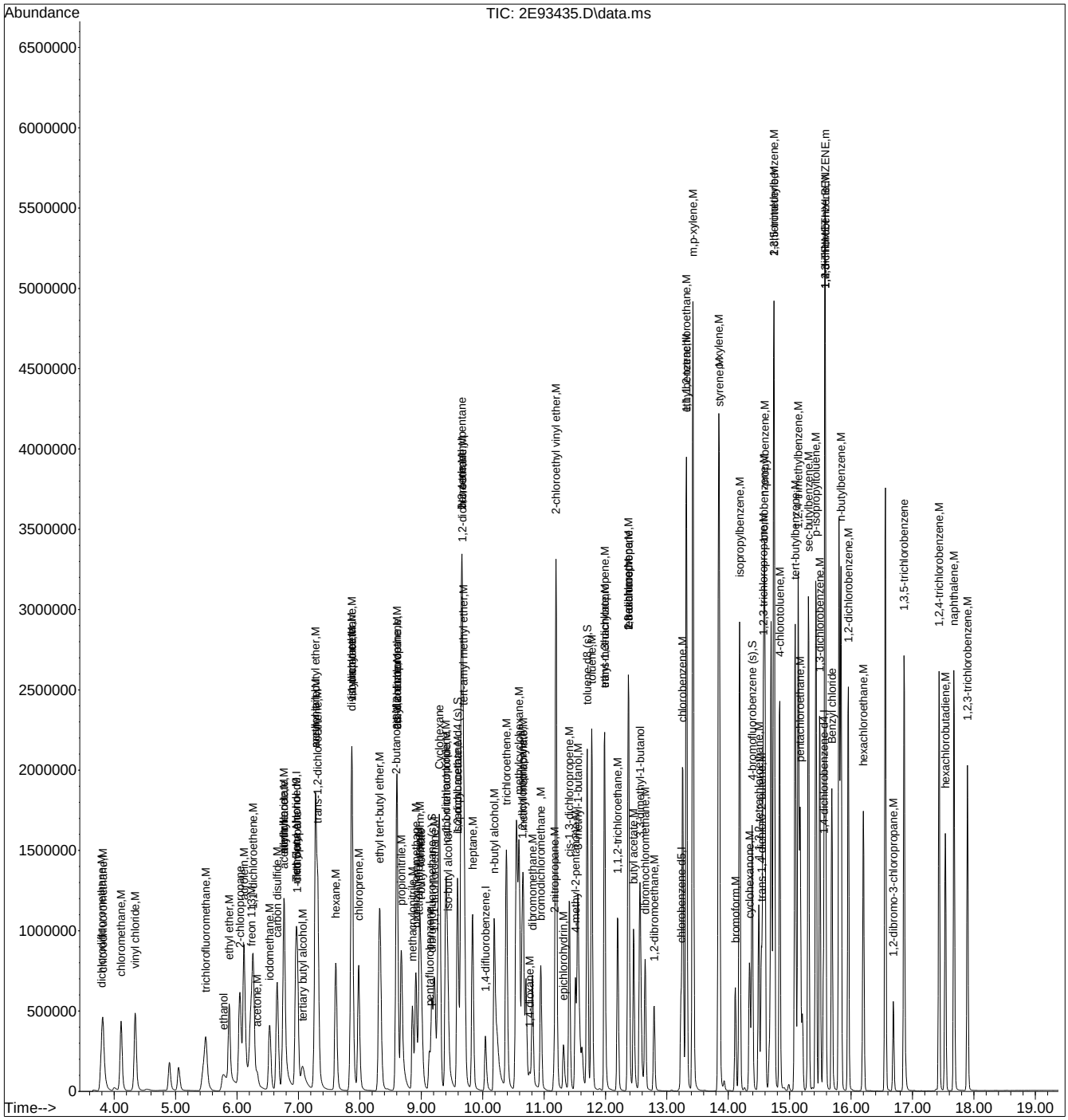
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
117) 1,4-dichlorobenzene	15.573	146	948113	179.47	ug/L	97
118) 1,2-dichlorobenzene	15.955	146	972489	187.35	ug/L	98
119) n-butylbenzene	15.835	92	1002808	189.70	ug/L	96
120) 1,2-dibromo-3-chloropr...	16.689	75	134809	177.69	ug/L	95
121) 1,3,5-trichlorobenzene	16.863	180	805591	173.96	ug/L	99
122) 1,2,4-trichlorobenzene	17.434	180	730504	160.07	ug/L	99
123) hexachlorobutadiene	17.539	225	332433	155.52	ug/L	99
124) naphthalene	17.675	128	1869424	155.05	ug/L	98
125) 1,2,3-trichlorobenzene	17.895	180	606797	147.13	ug/L	98
126) hexachloroethane	16.202	119	367949	201.01	ug/L	99
127) Benzyl chloride	15.688	91	1304004	193.83	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93435.D
Acq On : 14 Aug 2013 2:10 pm
Operator : tamikag
Sample : ic4202-200
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 09:19:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:18:52 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 08/19/13 08:52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93438.D
Acq On : 14 Aug 2013 3:37 pm
Operator : tamikag
Sample : ic4202-0.5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 09:56:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Tert Butyl Alcohol-d9	6.937	65	228415	500.00	ug/L		0.00
7) pentafluorobenzene	9.145	168	205105	50.00	ug/L		0.00
56) 1,4-difluorobenzene	10.046	114	308693	50.00	ug/L		0.00
84) chlorobenzene-d5	13.234	117	246300	50.00	ug/L		0.00
98) 1,4-dichlorobenzene-d4	15.552	152	141449	50.00	ug/L		0.00
System Monitoring Compounds							
48) dibromofluoromethane (s)	9.192	113	935	0.48	ug/L		0.01
Spiked Amount 50.000	Range 79 - 117		Recovery =	0.96%#			
49) 1,2-dichloroethane-d4 (s)	9.632	65	1183	0.51	ug/L		0.04
Spiked Amount 50.000	Range 72 - 123		Recovery =	1.02%#			
76) toluene-d8 (s)	11.756	98	3624	0.50	ug/L		0.05
Spiked Amount 50.000	Range 82 - 118		Recovery =	1.00%#			
100) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L		
Spiked Amount 50.000	Range 75 - 118		Recovery =	0.00%#			
Target Compounds							Qvalue
14) chloromethane	4.090	50	1863	0.50	ug/L		96
15) vinyl chloride	4.311	62	1706	0.43	ug/L		85
22) acrolein	6.151	56	3570	5.32	ug/L		79
23) 1,1-dichloroethene	6.282	96	862	0.42	ug/L		92
25) allyl chloride	6.796	76	501	0.38	ug/L	#	63
26) iodomethane	6.539	142	1370	0.39	ug/L		86
27) carbon disulfide	6.665	76	4581	0.58	ug/L		85
28) methylene chloride	6.984	84	1286	0.52	ug/L	#	63
31) methyl tert butyl ether	7.289	73	3102	0.41	ug/L		94
32) trans-1,2-dichloroethene	7.357	96	952	0.44	ug/L		87
33) di-isopropyl ether	7.892	45	2656m	0.38	ug/L		
34) ethyl tert-butyl ether	8.337	59	2716	0.36	ug/L		79
36) 1,1-dichloroethane	7.907	63	1627	0.41	ug/L		77
41) 2,2-dichloropropane	8.620	77	1376	0.42	ug/L		69
42) cis-1,2-dichloroethene	8.652	96	839	0.36	ug/L	#	54
44) bromochloromethane	8.935	128	436	0.38	ug/L	#	53
46) chloroform	8.998	85	1176	0.48	ug/L	#	66
52) 1,1,1-trichloroethane	9.223	97	1111	0.37	ug/L	#	11
53) Cyclohexane	9.286	84	1784	0.46	ug/L	#	27
54) 2,2,4-trimethylpentane	9.674	57	3660	0.40	ug/L	#	54
60) carbon tetrachloride	9.423	117	1091	0.42	ug/L		86
61) 1,1-dichloropropene	9.433	75	1281	0.44	ug/L		91
63) benzene	9.695	78	3530	0.42	ug/L		81
66) 1,2-dichloroethane	9.727	62	1087	0.40	ug/L	#	49
67) trichloroethene	10.424	95	760	0.38	ug/L		91
71) 1,2-dichloropropane	10.681	63	959	0.43	ug/L		90
74) bromodichloromethane	10.969	83	967	0.37	ug/L		88
78) toluene	11.819	92	1751	0.37	ug/L		91
85) tetrachloroethene	12.395	166	724	0.37	ug/L		77
86) 1,3-dichloropropane	12.427	76	1082	0.36	ug/L		75
90) 1,2-dibromoethane	12.830	107	689	0.39	ug/L	#	64
91) chlorobenzene	13.266	112	2125	0.41	ug/L		90
93) ethylbenzene	13.355	91	3687	0.41	ug/L		98
94) m,p-xylene	13.460	106	2806	0.81	ug/L		83
95) o-xylene	13.874	106	1250	0.35	ug/L		77
99) isopropylbenzene	14.209	105	3614	0.37	ug/L		93
101) bromobenzene	14.608	156	867	0.38	ug/L	#	84
106) n-propylbenzene	14.618	91	4442	0.41	ug/L		91
108) 4-chlorotoluene	14.870	91	3126	0.45	ug/L		91
109) 1,3,5-trimethylbenzene	14.760	105	4124	0.47	ug/L		94
110) tert-butylbenzene	15.101	119	2859	0.41	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93438.D
Acq On : 14 Aug 2013 3:37 pm
Operator : tamikag
Sample : ic4202-0.5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 09:56:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

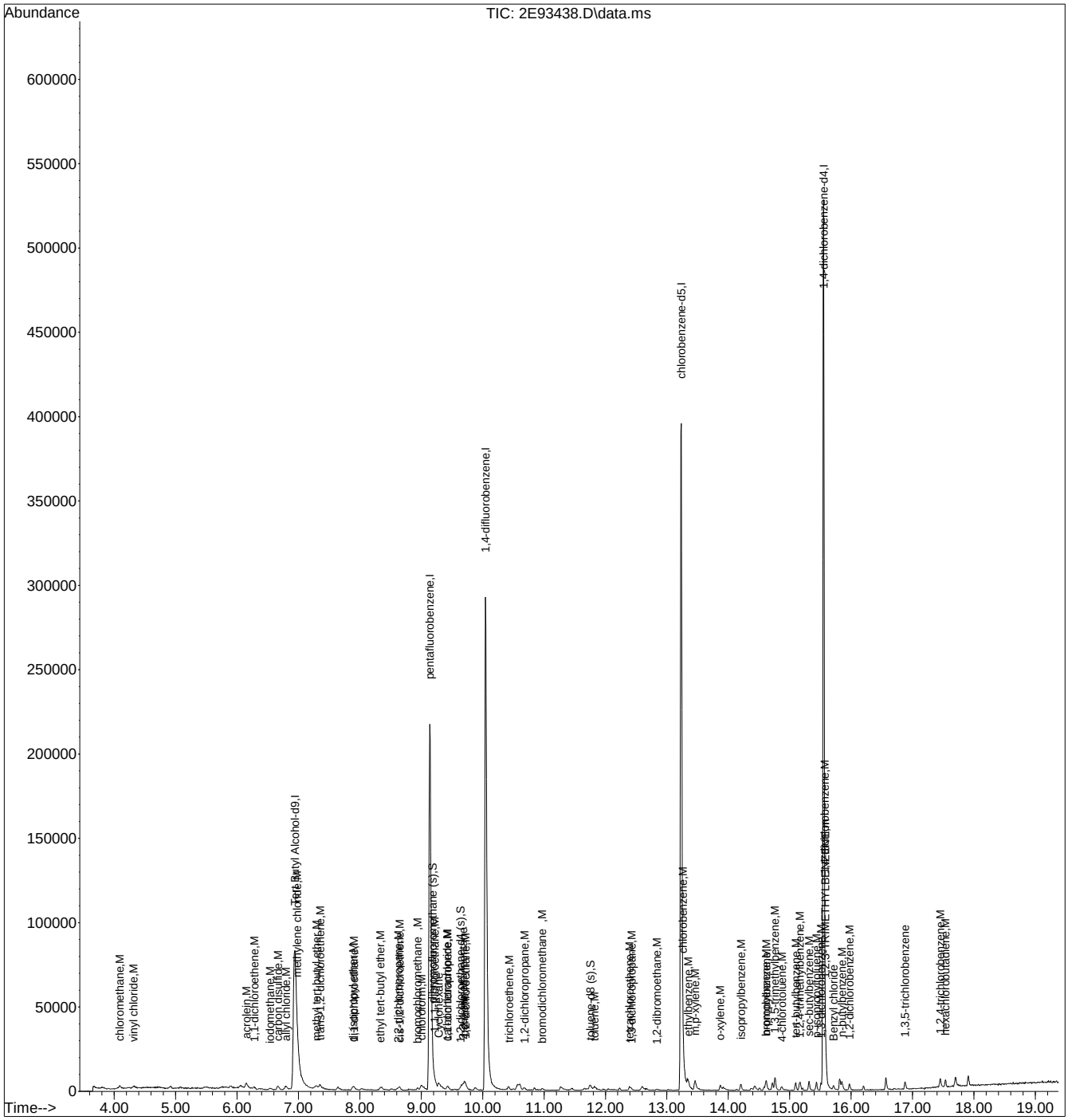
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
112) 1,2,4-trimethylbenzene	15.158	105	3332	0.40	ug/L		95
113) sec-butylbenzene	15.316	105	4558	0.42	ug/L		88
114) 1,3-dichlorobenzene	15.510	146	2111	0.46	ug/L		85
115) p-isopropyltoluene	15.436	119	3541	0.39	ug/L		97
116) 1,2,3-TRIMETHYLBENZENE	15.588	105	4608	0.49	ug/L		99
117) 1,4-dichlorobenzene	15.578	146	2307	0.48	ug/L		84
118) 1,2-dichlorobenzene	15.976	146	1959	0.41	ug/L		83
119) n-butylbenzene	15.845	92	2025	0.42	ug/L	#	68
121) 1,3,5-trichlorobenzene	16.883	180	1978	0.47	ug/L		96
122) 1,2,4-trichlorobenzene	17.455	180	2197	0.53	ug/L		91
123) hexachlorobutadiene	17.539	225	1110	0.57	ug/L		89
127) Benzyl chloride	15.714	91	2532	0.41	ug/L		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93438.D
Acq On : 14 Aug 2013 3:37 pm
Operator : tamikag
Sample : ic4202-0.5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 09:56:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB44675

Manual Integration Approval Summary

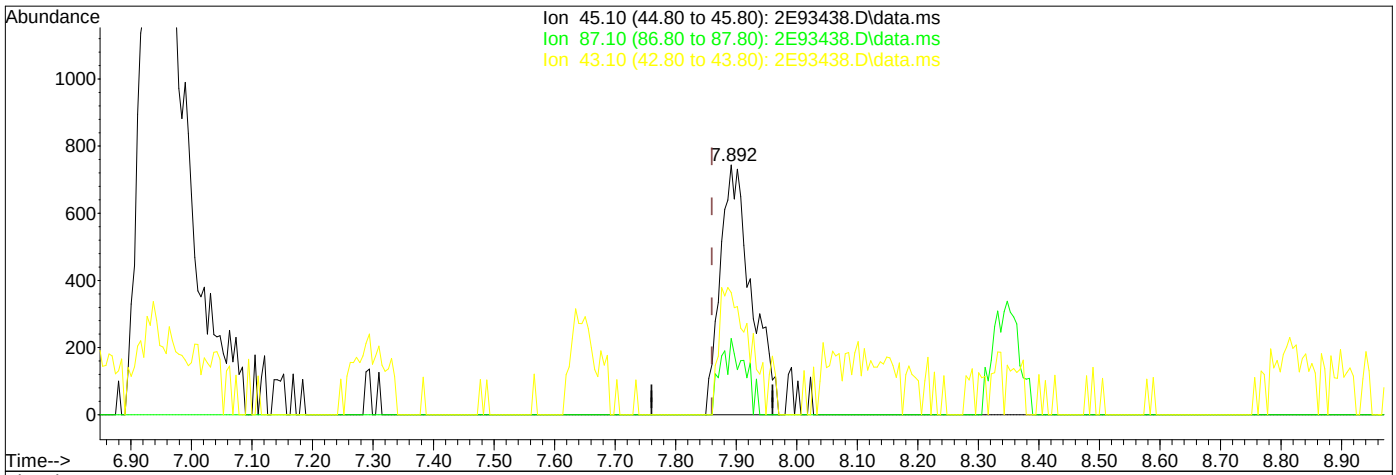
Sample Number: V2E4202-IC4202
Lab FileID: 2E93438.D
Injection Time: 08/14/13 15:37
Method: SW846 8260B
Analyst approved: 08/15/13 10:26 Dong, Mei
Supervisor approved: 08/19/13 08:52 Jessica Reitan-Chu

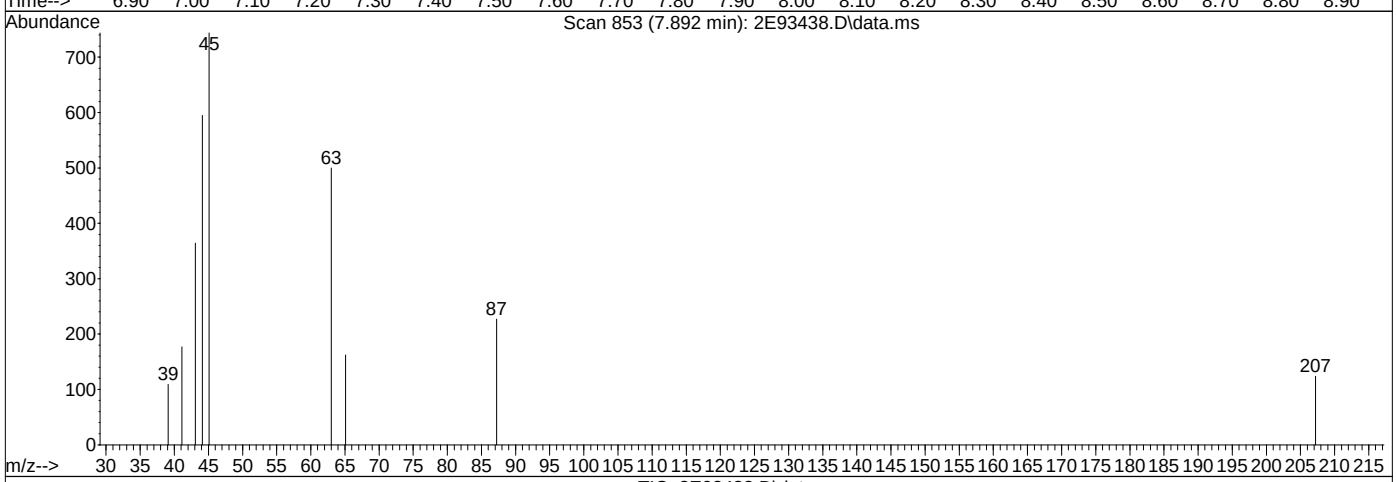
Parameter	CAS	Sig#	R.T. (min.)	Reason
Di-Isopropyl ether	108-20-3		7.89	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93438.D
Acq On : 14 Aug 2013 3:37 pm
Operator : tamikag
Sample : ic4202-0.5
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 09:56:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration





TIC: 2E93438.D\data.ms

(33) di-isopropyl ether (M)

7.892min (+0.031) 0.38ug/L m

response 2656

Ion	Exp%	Act%
45.10	100	100
87.10	24.90	30.51
43.10	45.70	48.92
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93439.D
Acq On : 14 Aug 2013 4:06 pm
Operator : tamikag
Sample : ic4202-75
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 09:24:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.948	65	202239	500.00	ug/L	0.00
7) pentafluorobenzene	9.139	168	210164	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.046	114	331260	50.00	ug/L	0.00
84) chlorobenzene-d5	13.229	117	268033	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	143848	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	144362	72.74	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 145.48%#			
49) 1,2-dichloroethane-d4 (s)	9.590	65	173520	72.74	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 145.48%#			
76) toluene-d8 (s)	11.703	98	569821	73.51	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 147.02%#			
100) 4-bromofluorobenzene (s)	14.393	95	201164	72.05	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 144.10%#			
Target Compounds						Qvalue
2) 1,4-dioxane	10.770	88	71259	1847.69	ug/L #	89
3) tertiary butyl alcohol	7.058	59	164300	347.60	ug/L	97
4) ethanol	5.773	46	147522	3703.83	ug/L	61
5) acetonitrile	6.759	40	191134	759.86	ug/L	93
6) iso-butyl alcohol	9.438	41	88766	752.36	ug/L #	95
12) chlorodifluoromethane	3.823	51	198306	74.51	ug/L	97
13) dichlorodifluoromethane	3.807	85	243032	68.81	ug/L	96
14) chloromethane	4.111	50	295800	76.75	ug/L	98
15) vinyl chloride	4.337	62	313280	76.78	ug/L	98
16) bromomethane	4.913	94	118408	63.85	ug/L	100
17) chloroethane	5.066	64	124328	65.00	ug/L	99
18) trichlorofluoromethane	5.506	101	262324	71.90	ug/L	98
20) ethyl ether	5.878	74	106850	69.63	ug/L	97
21) 2-chloropropane	6.051	43	318971	74.49	ug/L	99
22) acrolein	6.119	56	486938	708.68	ug/L	100
23) 1,1-dichloroethene	6.271	96	160020	76.14	ug/L	97
24) acetone	6.329	58	22216	69.39	ug/L	96
25) allyl chloride	6.775	76	99713	74.41	ug/L	94
26) iodomethane	6.539	142	277481	76.45	ug/L	98
27) carbon disulfide	6.659	76	575248	71.48	ug/L	99
28) methylene chloride	6.963	84	180889	71.76	ug/L	98
29) methyl acetate	6.769	43	158675	71.56	ug/L	99
30) 1-chloropropane	6.990	41	79798	76.15	ug/L	94
31) methyl tert butyl ether	7.278	73	551923	71.86	ug/L	99
32) trans-1,2-dichloroethene	7.325	96	165554	74.04	ug/L	98
33) di-isopropyl ether	7.865	45	553797	77.50	ug/L	74
34) ethyl tert-butyl ether	8.321	59	592141	76.08	ug/L	99
35) 2-butanone	8.599	72	26800	80.49	ug/L	99
36) 1,1-dichloroethane	7.881	63	305250	75.23	ug/L	99
37) chloroprene	7.986	53	248892	79.64	ug/L	98
38) acrylonitrile	7.283	53	421723	361.76	ug/L	99
39) vinyl acetate	7.881	86	37309	81.62	ug/L	80
40) ethyl acetate	8.610	45	28088	80.02	ug/L	84
41) 2,2-dichloropropane	8.599	77	245434	73.82	ug/L	98
42) cis-1,2-dichloroethene	8.610	96	180952	75.76	ug/L	98
43) propionitrile	8.678	54	347160	739.19	ug/L	81
44) bromochloromethane	8.919	128	88200	75.50	ug/L	97
45) tetrahydrofuran	8.961	42	76344	68.05	ug/L	98
46) chloroform	8.977	85	178598	71.51	ug/L	100
47) t-butyl formate	9.003	59	176802	74.36	ug/L	98
50) freon 113	6.240	151	124469	76.24	ug/L	92

ACCUTEST LABORATORIES JB44675

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93439.D
Acq On : 14 Aug 2013 4:06 pm
Operator : tamikag
Sample : ic4202-75
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 09:24:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) methacrylonitrile	8.861	41	115557	79.66	ug/L		97
52) 1,1,1-trichloroethane	9.218	97	237900	76.97	ug/L		100
53) Cyclohexane	9.286	84	294526	74.88	ug/L		99
54) 2,2,4-trimethylpentane	9.658	57	781010	82.44	ug/L	#	99
55) tert-amyl methyl ether	9.700	87	135476	69.84	ug/L		93
58) epichlorohydrin	11.320	57	111215	378.14	ug/L		99
59) n-butyl alcohol	10.188	56	435099	3794.32	ug/L		98
60) carbon tetrachloride	9.422	117	206964	74.22	ug/L		97
61) 1,1-dichloropropene	9.401	75	234036	75.29	ug/L		96
62) hexane	7.619	57	231975	77.89	ug/L		97
63) benzene	9.658	78	682831	75.54	ug/L		99
64) heptane	9.842	57	129998	77.68	ug/L		97
65) isopropyl acetate	9.601	43	350427	72.14	ug/L		99
66) 1,2-dichloroethane	9.679	62	220953	75.13	ug/L		99
67) trichloroethene	10.387	95	164506	76.35	ug/L		99
68) 2-nitropropane	11.174	41	71189	73.18	ug/L	#	77
69) 2-chloroethyl vinyl ether	11.195	63	579484	373.24	ug/L		99
70) methyl methacrylate	10.670	100	51726	75.40	ug/L		92
71) 1,2-dichloropropane	10.649	63	180646	74.91	ug/L		98
72) methylcyclohexane	10.597	83	317954	74.55	ug/L		99
73) dibromomethane	10.812	93	103344	73.33	ug/L		95
74) bromodichloromethane	10.948	83	209346	75.26	ug/L		100
75) cis-1,3-dichloropropene	11.415	75	278929	75.10	ug/L		97
77) 4-methyl-2-pentanone	11.514	58	88832	73.39	ug/L		95
78) toluene	11.777	92	398652	77.45	ug/L		100
79) 3-methyl-1-butanol	11.551	70	173483	1488.45	ug/L		97
80) trans-1,3-dichloropropene	11.986	75	237594	74.35	ug/L		98
81) ethyl methacrylate	11.986	69	236526	76.70	ug/L		99
82) 1,1,2-trichloroethane	12.201	83	117725	72.94	ug/L		99
83) 2-hexanone	12.385	58	69517	72.86	ug/L		97
85) tetrachloroethene	12.374	166	163480	75.92	ug/L		97
86) 1,3-dichloropropane	12.380	76	243912	74.53	ug/L		97
87) butyl acetate	12.463	56	117689	76.50	ug/L		99
88) 3,3-dimethyl-1-butanol	12.558	57	326071	684.95	ug/L		99
89) dibromochloromethane	12.647	129	154528	76.21	ug/L		99
90) 1,2-dibromoethane	12.794	107	140795	73.84	ug/L		95
91) chlorobenzene	13.260	112	419961	74.82	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.323	131	163202	72.93	ug/L		97
93) ethylbenzene	13.318	91	729134	75.02	ug/L		98
94) m,p-xylene	13.428	106	573299	151.20	ug/L		98
95) o-xylene	13.842	106	298247	76.64	ug/L		99
96) styrene	13.858	104	465613	74.33	ug/L		99
97) bromoform	14.120	173	107650	71.49	ug/L		98
99) isopropylbenzene	14.183	105	782457	79.13	ug/L		99
101) bromobenzene	14.582	156	172786	75.27	ug/L		95
102) cyclohexanone	14.346	55	192859	830.88	ug/L		97
103) 1,1,2,2-tetrachloroethane	14.498	83	216925	68.41	ug/L		96
104) trans-1,4-dichloro-2-b...	14.540	53	55381	71.74	ug/L		94
105) 1,2,3-trichloropropane	14.566	110	58045	71.36	ug/L		96
106) n-propylbenzene	14.592	91	861400	77.38	ug/L		99
107) 2-chlorotoluene	14.739	126	176941	75.80	ug/L		95
108) 4-chlorotoluene	14.839	91	515550	73.20	ug/L		100
109) 1,3,5-trimethylbenzene	14.749	105	673370	74.99	ug/L		99
110) tert-butylbenzene	15.090	119	580381	81.04	ug/L		98
111) pentachloroethane	15.174	167	128434	77.35	ug/L		93
112) 1,2,4-trimethylbenzene	15.137	105	666608	77.84	ug/L		98
113) sec-butylbenzene	15.305	105	871969	78.77	ug/L		99
114) 1,3-dichlorobenzene	15.494	146	342306	73.96	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93439.D
Acq On : 14 Aug 2013 4:06 pm
Operator : tamikag
Sample : ic4202-75
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 09:24:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration

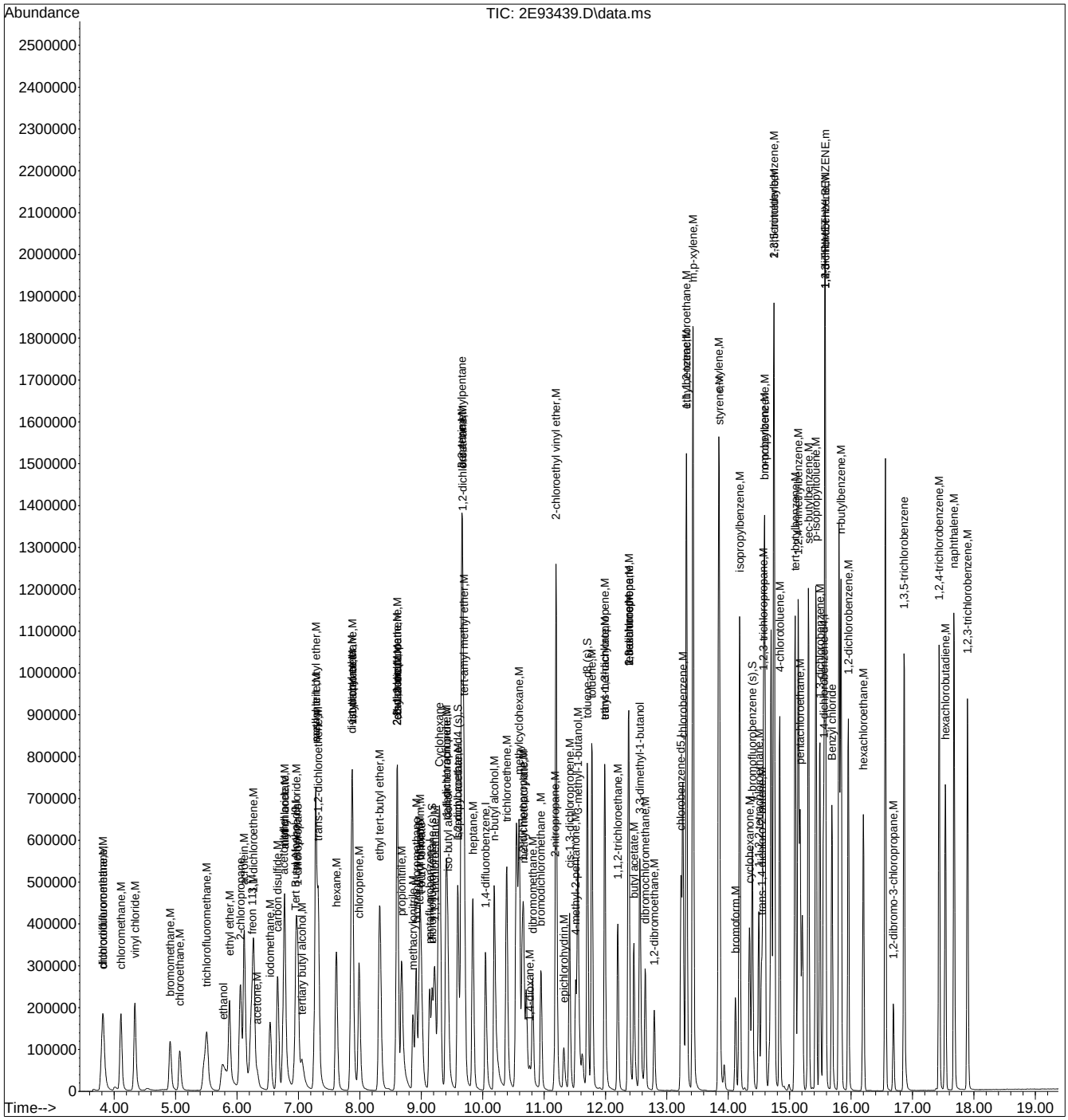
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) p-isopropyltoluene	15.426	119	725391	79.17	ug/L	99
116) 1,2,3-TRIMETHYLBENZENE	15.578	105	737071	76.62	ug/L	100
117) 1,4-dichlorobenzene	15.573	146	351606	71.61	ug/L	97
118) 1,2-dichlorobenzene	15.955	146	355281	73.64	ug/L	99
119) n-butylbenzene	15.835	92	382790	77.91	ug/L	98
120) 1,2-dibromo-3-chloropr...	16.689	75	50296	71.32	ug/L	97
121) 1,3,5-trichlorobenzene	16.868	180	324498	75.39	ug/L	99
122) 1,2,4-trichlorobenzene	17.434	180	310966	73.31	ug/L	99
123) hexachlorobutadiene	17.539	225	149932	75.46	ug/L	100
124) naphthalene	17.675	128	824752	73.60	ug/L	99
125) 1,2,3-trichlorobenzene	17.895	180	284842	74.31	ug/L	98
126) hexachloroethane	16.202	119	137754	80.97	ug/L	99
127) Benzyl chloride	15.688	91	478917	76.59	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93439.D
Acq On : 14 Aug 2013 4:06 pm
Operator : tamikag
Sample : ic4202-75
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 09:24:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 09:20:59 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93440.D
Acq On : 14 Aug 2013 4:47 pm
Operator : tamikag
Sample : icv4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 15 10:19:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.943	65	225314	500.00	ug/L	0.00
7) pentafluorobenzene	9.134	168	208323	50.00	ug/L	0.00
56) 1,4-difluorobenzene	10.047	114	324228	50.00	ug/L	0.00
84) chlorobenzene-d5	13.234	117	262839	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	15.552	152	141907	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.176	113	92321	46.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 93.86%			
49) 1,2-dichloroethane-d4 (s)	9.596	65	110039	46.54	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 93.08%			
76) toluene-d8 (s)	11.709	98	357741	47.15	ug/L	0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 94.30%			
100) 4-bromofluorobenzene (s)	14.393	95	126862	46.06	ug/L	0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 92.12%			
Target Compounds						Qvalue
2) 1,4-dioxane	10.775	88	61145	1423.07	ug/L #	93
3) tertiary butyl alcohol	7.053	59	132044	250.46	ug/L	99
4) ethanol	5.753	46	107210	5009.83	ug/L	99
5) acetonitrile	6.754	40	141344	504.37	ug/L	97
6) iso-butyl alcohol	9.438	41	72356	554.31	ug/L	97
12) chlorodifluoromethane	3.813	51	92485	35.06	ug/L	98
13) dichlorodifluoromethane	3.802	85	157030	44.86	ug/L	97
14) chloromethane	4.096	50	173646	45.45	ug/L	99
15) vinyl chloride	4.326	62	191040	47.24	ug/L	98
16) bromomethane	4.903	94	75297	47.13	ug/L	96
17) chloroethane	5.060	64	77861	48.03	ug/L	98
18) trichlorofluoromethane	5.496	101	165993	45.90	ug/L	97
20) ethyl ether	5.873	74	68459	45.01	ug/L	98
21) 2-chloropropane	6.051	43	193855	45.69	ug/L	99
22) acrolein	6.114	56	327291	480.54	ug/L	100
23) 1,1-dichloroethene	6.266	96	92931	44.61	ug/L	96
24) acetone	6.329	58	16625	52.39	ug/L	88
25) allyl chloride	6.775	76	59776	46.08	ug/L	98
26) iodomethane	6.534	142	169515	47.12	ug/L	99
27) carbon disulfide	6.654	76	346211	43.40	ug/L	99
28) methylene chloride	6.958	84	114249	45.72	ug/L	98
29) methyl acetate	6.770	43	109347	48.46	ug/L	100
30) 1-chloropropane	6.990	41	51096	49.26	ug/L	93
31) methyl tert butyl ether	7.278	73	715601	93.99	ug/L	99
32) trans-1,2-dichloroethene	7.325	96	101518	45.80	ug/L	93
33) di-isopropyl ether	7.865	45	363098	51.43	ug/L	86
34) ethyl tert-butyl ether	8.322	59	375291	48.64	ug/L	99
35) 2-butanone	8.605	72	18023	54.61	ug/L	93
36) 1,1-dichloroethane	7.881	63	191767	47.68	ug/L	100
37) chloroprene	7.991	53	143052	44.56	ug/L	98
38) acrylonitrile	7.283	53	291221	243.94	ug/L	99
39) vinyl acetate	7.886	86	25766	56.87	ug/L	83
40) ethyl acetate	8.610	45	19240	54.10	ug/L	76
41) 2,2-dichloropropane	8.605	77	141177	42.84	ug/L	99
42) cis-1,2-dichloroethene	8.615	96	113473	47.93	ug/L	99
43) propionitrile	8.678	54	240044	515.63	ug/L	97
44) bromochloromethane	8.919	128	55702	48.10	ug/L	98
45) tetrahydrofuran	8.961	42	51631	49.93	ug/L	100
46) chloroform	8.977	85	112063	45.26	ug/L	99
47) t-butyl formate	9.003	59	123466	52.39	ug/L	99
50) freon 113	6.235	151	67089	41.45	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93440.D
Acq On : 14 Aug 2013 4:47 pm
Operator : tamikag
Sample : icv4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 15 10:19:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) methacrylonitrile	8.867	41	75052	52.19	ug/L		97
52) 1,1,1-trichloroethane	9.218	97	146787	47.91	ug/L		98
53) Cyclohexane	9.286	84	180560	46.31	ug/L		99
54) 2,2,4-trimethylpentane	9.664	57	361903	38.54	ug/L	#	98
55) tert-amyl methyl ether	9.701	87	88830	46.20	ug/L		96
58) epichlorohydrin	11.326	57	84496	293.52	ug/L		99
59) n-butyl alcohol	10.188	56	353960	3153.69	ug/L		97
60) carbon tetrachloride	9.423	117	124394	45.58	ug/L		99
61) 1,1-dichloropropene	9.407	75	142253	46.76	ug/L		98
62) hexane	7.619	57	88126	30.23	ug/L		98
63) benzene	9.664	78	419892	47.46	ug/L		99
65) isopropyl acetate	9.601	43	267668	56.30	ug/L		97
66) 1,2-dichloroethane	9.680	62	137971	47.93	ug/L		99
67) trichloroethene	10.387	95	101514	48.13	ug/L		98
68) 2-nitropropane	11.184	41	47857	50.26	ug/L	#	1
69) 2-chloroethyl vinyl ether	11.195	63	421200	277.17	ug/L		99
70) methyl methacrylate	10.676	100	33018	49.18	ug/L		97
71) 1,2-dichloropropane	10.650	63	113768	48.20	ug/L		99
72) methylcyclohexane	10.597	83	172871	41.41	ug/L		99
73) dibromomethane	10.812	93	65141	47.22	ug/L		93
74) bromodichloromethane	10.954	83	130469	47.92	ug/L		99
75) cis-1,3-dichloropropene	11.420	75	169473	46.62	ug/L		97
77) 4-methyl-2-pentanone	11.520	58	60483	51.05	ug/L		98
78) toluene	11.782	92	245778	48.79	ug/L		99
79) 3-methyl-1-butanol	11.551	70	141847	1264.90	ug/L		98
80) trans-1,3-dichloropropene	11.992	75	147293	47.09	ug/L		98
81) ethyl methacrylate	11.992	69	152776	51.08	ug/L		99
82) 1,1,2-trichloroethane	12.201	83	75191	47.60	ug/L		98
83) 2-hexanone	12.390	58	45573	48.80	ug/L		99
85) tetrachloroethene	12.374	166	99131	46.94	ug/L		97
86) 1,3-dichloropropane	12.385	76	154145	48.03	ug/L		97
87) butyl acetate	12.469	56	85031	56.36	ug/L		96
88) 3,3-dimethyl-1-butanol	12.563	57	268384	574.91	ug/L		99
89) dibromochloromethane	12.652	129	97480	47.08	ug/L		98
90) 1,2-dibromoethane	12.799	107	90619	48.47	ug/L		95
91) chlorobenzene	13.261	112	259817	47.20	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.323	131	102485	46.70	ug/L		96
93) ethylbenzene	13.318	91	451156	47.33	ug/L		98
94) m,p-xylene	13.428	106	356568	95.90	ug/L		99
95) o-xylene	13.848	106	183888	48.19	ug/L		98
96) styrene	13.858	104	287464	46.80	ug/L		98
97) bromoform	14.120	173	69054	46.76	ug/L		99
99) isopropylbenzene	14.189	105	478500	49.05	ug/L		99
101) bromobenzene	14.582	156	110264	48.69	ug/L		92
102) cyclohexanone	14.346	55	88208	362.86	ug/L		97
103) 1,1,2,2-tetrachloroethane	14.498	83	143458	50.20	ug/L		98
104) trans-1,4-dichloro-2-b...	14.545	53	36201	45.62	ug/L		85
105) 1,2,3-trichloropropane	14.566	110	38382	50.15	ug/L		98
106) n-propylbenzene	14.598	91	528269	48.10	ug/L		99
107) 2-chlorotoluene	14.739	126	109943	47.74	ug/L		94
108) 4-chlorotoluene	14.839	91	320907	46.19	ug/L		98
109) 1,3,5-trimethylbenzene	14.750	105	415290	46.88	ug/L		98
110) tert-butylbenzene	15.090	119	349015	49.40	ug/L		99
111) pentachloroethane	15.174	167	79828	48.73	ug/L		99
112) 1,2,4-trimethylbenzene	15.143	105	408385	48.34	ug/L		98
113) sec-butylbenzene	15.305	105	531002	48.62	ug/L		99
114) 1,3-dichlorobenzene	15.494	146	210626	46.13	ug/L		99
115) p-isopropyltoluene	15.431	119	441260	48.82	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93440.D
Acq On : 14 Aug 2013 4:47 pm
Operator : tamikag
Sample : icv4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 15 10:19:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

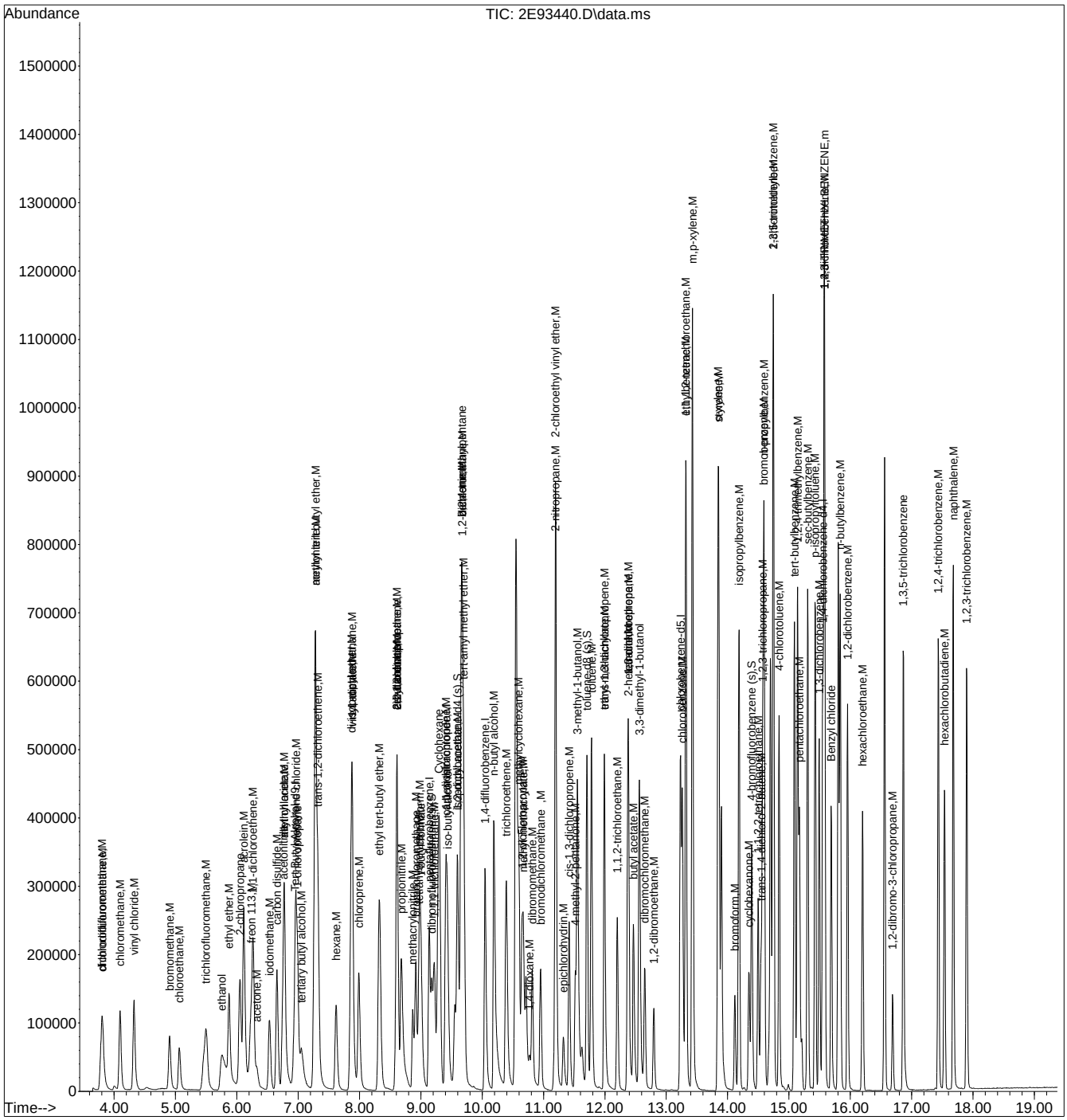
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,3-TRIMETHYLBENZENE	15.583	105	449702	47.39	ug/L	99
117) 1,4-dichlorobenzene	15.578	146	220672	45.56	ug/L	100
118) 1,2-dichlorobenzene	15.955	146	221713	46.58	ug/L	97
119) n-butylbenzene	15.835	92	230654	47.59	ug/L	98
120) 1,2-dibromo-3-chloropr...	16.689	75	34024	48.91	ug/L	97
121) 1,3,5-trichlorobenzene	16.863	180	200744	47.28	ug/L	99
122) 1,2,4-trichlorobenzene	17.434	180	199311	47.63	ug/L	98
123) hexachlorobutadiene	17.539	225	91457	46.66	ug/L	99
124) naphthalene	17.680	128	559350	50.60	ug/L	99
125) 1,2,3-trichlorobenzene	17.901	180	188888	49.95	ug/L	100
126) hexachloroethane	16.202	119	83659	49.84	ug/L	99
127) Benzyl chloride	15.688	91	297898	48.29	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2E93440.D
Acq On : 14 Aug 2013 4:47 pm
Operator : tamikag
Sample : icv4202-50
Misc : MS53100,V2E4202,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 15 10:19:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93515.D
Acq On : 16 Aug 2013 9:06 pm
Operator : tamikag
Sample : cc4202-50
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 19 16:04:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	6.937	65	199231	500.00	ug/L		0.00
7) pentafluorobenzene	9.134	168	211320	50.00	ug/L		0.00
56) 1,4-difluorobenzene	10.046	114	331170	50.00	ug/L		0.00
84) chlorobenzene-d5	13.229	117	275833	50.00	ug/L		0.00
98) 1,4-dichlorobenzene-d4	15.552	152	149212	50.00	ug/L		0.00
System Monitoring Compounds							
48) dibromofluoromethane (s)	9.176	113	97955	49.09	ug/L		0.00
Spiked Amount 50.000	Range 79 - 117		Recovery = 98.18%				
49) 1,2-dichloroethane-d4 (s)	9.590	65	115272	48.06	ug/L		0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 96.12%				
76) toluene-d8 (s)	11.703	98	391443	50.51	ug/L		0.00
Spiked Amount 50.000	Range 82 - 118		Recovery = 101.02%				
100) 4-bromofluorobenzene (s)	14.393	95	134699	46.51	ug/L		0.00
Spiked Amount 50.000	Range 75 - 118		Recovery = 93.02%				
Target Compounds							Qvalue
2) 1,4-dioxane	10.770	88	52389	1378.92	ug/L	#	97
3) tertiary butyl alcohol	7.047	59	116026	248.89	ug/L		99
4) ethanol	5.752	46	94158	4975.34	ug/L		98
5) acetonitrile	6.749	40	136054	549.05	ug/L		100
6) iso-butyl alcohol	9.433	41	59574	516.14	ug/L	#	94
12) chlorodifluoromethane	3.807	51	130326	48.70	ug/L		96
13) dichlorodifluoromethane	3.792	85	134579	37.90	ug/L		97
14) chloromethane	4.096	50	158144	40.81	ug/L		99
15) vinyl chloride	4.321	62	172767	42.11	ug/L		98
16) bromomethane	4.903	94	76916	47.46	ug/L		100
17) chloroethane	5.066	64	75905	46.13	ug/L		98
18) trichlorofluoromethane	5.501	101	158680	43.25	ug/L		98
20) ethyl ether	5.873	74	74873	48.53	ug/L		98
21) 2-chloropropane	6.051	43	218495	50.77	ug/L		99
22) acrolein	6.109	56	293793	425.24	ug/L		98
23) 1,1-dichloroethene	6.266	96	101644	48.10	ug/L		93
24) acetone	6.329	58	16118	50.07	ug/L		97
25) allyl chloride	6.775	76	63931	48.58	ug/L		99
26) iodomethane	6.534	142	180742	49.53	ug/L		98
27) carbon disulfide	6.654	76	382379	47.25	ug/L		99
28) methylene chloride	6.958	84	122769	48.43	ug/L		99
29) methyl acetate	6.770	43	109522	47.85	ug/L		99
30) 1-chloropropane	6.990	41	55561	52.81	ug/L		91
31) methyl tert butyl ether	7.273	73	389114	50.38	ug/L		99
32) trans-1,2-dichloroethene	7.325	96	113418	50.44	ug/L		98
33) di-isopropyl ether	7.860	45	385566	53.84	ug/L		98
34) ethyl tert-butyl ether	8.316	59	410960	52.51	ug/L		98
35) 2-butanone	8.599	72	17651	52.72	ug/L		93
36) 1,1-dichloroethane	7.881	63	207865	50.95	ug/L		99
37) chloroprene	7.986	53	172286	52.90	ug/L		97
38) acrylonitrile	7.283	53	297302	245.51	ug/L		98
39) vinyl acetate	7.886	86	25931	56.42	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93515.D
Acq On : 16 Aug 2013 9:06 pm
Operator : tamikag
Sample : cc4202-50
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 19 16:04:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) ethyl acetate	8.605	45	19078	52.88	ug/L		80
41) 2,2-dichloropropane	8.605	77	145291	43.46	ug/L		98
42) cis-1,2-dichloroethene	8.610	96	124954	52.03	ug/L		98
43) propionitrile	8.673	54	242452	513.41	ug/L		94
44) bromochloromethane	8.914	128	60853	51.81	ug/L		98
45) tetrahydrofuran	8.961	42	52986	50.53	ug/L		98
46) chloroform	8.977	85	124565	49.60	ug/L		98
47) t-butyl formate	9.003	59	128388	53.70	ug/L		99
50) freon 113	6.230	151	85083	51.83	ug/L		95
51) methacrylonitrile	8.867	41	77004	52.79	ug/L		98
52) 1,1,1-trichloroethane	9.218	97	169211	54.45	ug/L		99
53) Cyclohexane	9.286	84	199770	50.51	ug/L		99
54) 2,2,4-trimethylpentane	9.659	57	487929	51.22	ug/L	#	100
55) tert-amyl methyl ether	9.695	87	94263	48.33	ug/L		98
58) epichlorohydrin	11.326	57	75053	255.25	ug/L		97
59) n-butyl alcohol	10.188	56	302509	2638.77	ug/L		99
60) carbon tetrachloride	9.417	117	146598	52.59	ug/L		97
61) 1,1-dichloropropene	9.402	75	158482	51.00	ug/L		98
62) hexane	7.619	57	142045	47.71	ug/L		98
63) benzene	9.659	78	466460	51.61	ug/L		100
64) heptane	9.842	57	79153	47.31	ug/L		97
65) isopropyl acetate	9.601	43	243277	50.10	ug/L		99
66) 1,2-dichloroethane	9.679	62	150616	51.23	ug/L		100
67) trichloroethene	10.387	95	112663	52.30	ug/L		100
68) 2-nitropropane	11.174	41	50107	51.52	ug/L		79
69) 2-chloroethyl vinyl ether	11.195	63	411541	265.14	ug/L		100
70) methyl methacrylate	10.670	100	34289	50.00	ug/L	#	85
71) 1,2-dichloropropane	10.649	63	123112	51.07	ug/L		98
72) methylcyclohexane	10.592	83	215897	50.63	ug/L		98
73) dibromomethane	10.812	93	70330	49.92	ug/L		94
74) bromodichloromethane	10.948	83	147267	52.96	ug/L		99
75) cis-1,3-dichloropropene	11.415	75	182436	49.14	ug/L		98
77) 4-methyl-2-pentanone	11.515	58	61743	51.02	ug/L		97
78) toluene	11.777	92	273327	53.12	ug/L		99
79) 3-methyl-1-butanol	11.551	70	118474	1034.33	ug/L		99
80) trans-1,3-dichloropropene	11.992	75	159718	49.99	ug/L		96
81) ethyl methacrylate	11.992	69	163670	53.57	ug/L		99
82) 1,1,2-trichloroethane	12.201	83	83332	51.64	ug/L		99
83) 2-hexanone	12.385	58	47738	50.05	ug/L		94
85) tetrachloroethene	12.369	166	114308	51.58	ug/L		99
86) 1,3-dichloropropane	12.385	76	173303	51.45	ug/L		99
87) butyl acetate	12.464	56	84295	53.24	ug/L		99
88) 3,3-dimethyl-1-butanol	12.558	57	218971	446.97	ug/L		99
89) dibromochloromethane	12.647	129	110068	50.65	ug/L		99
90) 1,2-dibromoethane	12.794	107	98684	50.29	ug/L		98
91) chlorobenzene	13.260	112	288064	49.87	ug/L		96
92) 1,1,1,2-tetrachloroethane	13.323	131	115982	50.36	ug/L		96
93) ethylbenzene	13.318	91	508255	50.81	ug/L		99
94) m,p-xylene	13.428	106	398524	102.13	ug/L		97
95) o-xylene	13.842	106	205130	51.22	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93515.D
Acq On : 16 Aug 2013 9:06 pm
Operator : tamikag
Sample : cc4202-50
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 19 16:04:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration

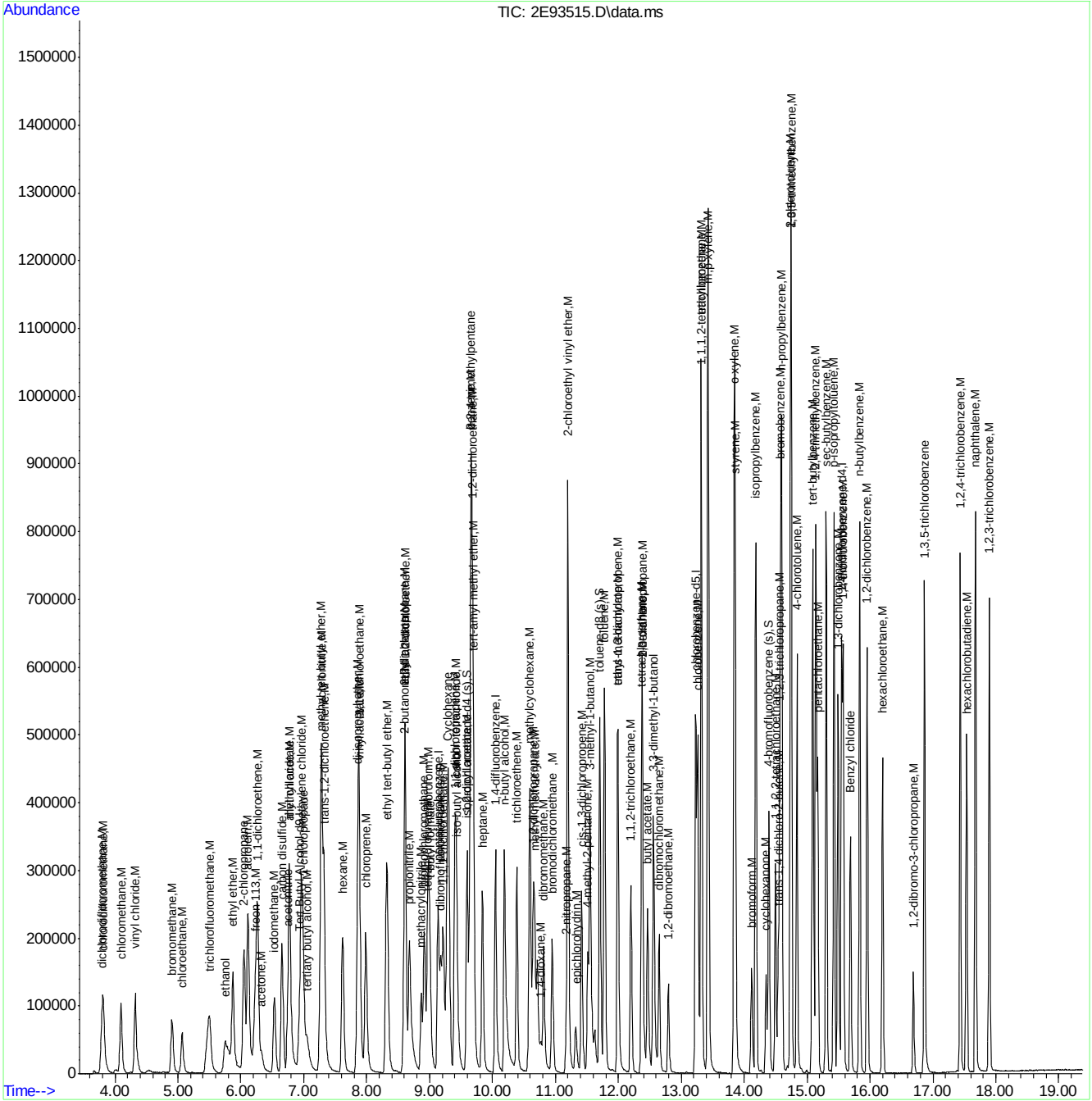
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) styrene	13.858	104	318744	49.45	ug/L	99
97) bromoform	14.120	173	77685	50.13	ug/L	100
99) isopropylbenzene	14.183	105	544092	53.05	ug/L	98
101) bromobenzene	14.582	156	122494	51.44	ug/L	90
102) cyclohexanone	14.346	55	74241	287.93	ug/L	97
103) 1,1,2,2-tetrachloroethane	14.498	83	158096	52.63	ug/L	97
104) trans-1,4-dichloro-2-b...	14.540	53	33718	40.41	ug/L	97
105) 1,2,3-trichloropropane	14.566	110	42616	52.99	ug/L	98
106) n-propylbenzene	14.592	91	603287	52.24	ug/L	98
107) 2-chlorotoluene	14.739	126	123068	50.83	ug/L	94
108) 4-chlorotoluene	14.839	91	355686	48.69	ug/L	99
109) 1,3,5-trimethylbenzene	14.749	105	464447	49.86	ug/L	98
110) tert-butylbenzene	15.090	119	397031	53.45	ug/L	99
111) pentachloroethane	15.169	167	86607	50.29	ug/L	98
112) 1,2,4-trimethylbenzene	15.137	105	453820	51.09	ug/L	98
113) sec-butylbenzene	15.305	105	599824	52.24	ug/L	99
114) 1,3-dichlorobenzene	15.494	146	237270	49.42	ug/L	99
115) p-isopropyltoluene	15.426	119	495558	52.14	ug/L	99
117) 1,4-dichlorobenzene	15.573	146	247982	48.69	ug/L	98
118) 1,2-dichlorobenzene	15.955	146	250719	50.10	ug/L	100
119) n-butylbenzene	15.835	92	251290	49.30	ug/L	99
120) 1,2-dibromo-3-chloropr...	16.689	75	37189	50.84	ug/L	93
121) 1,3,5-trichlorobenzene	16.868	180	224012	50.17	ug/L	99
122) 1,2,4-trichlorobenzene	17.434	180	218617	49.69	ug/L	98
123) hexachlorobutadiene	17.539	225	99544	48.30	ug/L	99
124) naphthalene	17.675	128	609143	52.40	ug/L	99
125) 1,2,3-trichlorobenzene	17.895	180	210808	53.02	ug/L	97
126) hexachloroethane	16.202	119	97026	54.98	ug/L	99
127) Benzyl chloride	15.688	91	253285	39.05	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4206-09\
Data File : 2E93515.D
Acq On : 16 Aug 2013 9:06 pm
Operator : tamikag
Sample : cc4202-50
Misc : MS53156,V2E4207,5,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 19 16:04:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\M2E4202.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Aug 15 10:17:28 2013
Response via : Initial Calibration



ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2E4202

Print Analyst Name: TaHK 25ppm

Analyst Signature:

8/14/13

Standard Data

#	Description	Conc.
114	EXT A	100ppm
66	B	↓
121	C	↓
100	Acetone/Acrolein	1000ppm
91	ethanol/ethanol	10,000ppm

Standard Data

Lot #	Description	Conc.
0131548/100	A	100ppm
116	B	↓
123	C	↓
115	SURR	↓
124/146 (103)	MIX STD INT ONLY	25/2500ppm

Columns: ZB-624 (60m x .25mm/1.4µm)

Method V8260B

Initial Cal. Method M2E4202

8/14/13

ually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 8/14/13

Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
E93426	BFB												9:48AM	
93427	IC4202-0.5	8260 INITIAL				5		1x					0.5µl A+B+C+SURR+MIX STD+ACETONE	/100FV
93428	IC4202-1					5		1x					1µl (	/100FV
93429	IC4202-2					5		1x					2µl (	/100FV
93430	IC4202-5					5		1x					5µl (	/100FV
93431	IC4202-10					5		1x					5µl (	/50FV
93432	IC4202-20					5		1x					20µl A+B+C+Acetone+MIX STD+25µl SURR/SS	
93433	IC4202-50					5		1x					25µl (A+B+C+Ac+ethanol+MIX STD+SURR)	/50
93434	IC4202-100					5		1x					50µl (	/50
93435	IC4202-200					5		1x					100µl (	/50
93436	IB													
93437	IB													
93438	IC4202-0.5					5		1x					0.5µl (A+B+C+Ac+MIX STD+Eth OH+SURR)	/100FV
93439	IC4202-75					5		1x					75µl (	/100FV
93440	IC4202-50					5		1x					25µl EXT (A+B+C+Ac+eth OH)+MIX STD+SURR	/50FV
													8/15/13	

X = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ple Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result .

trike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; computer miscalculation; 4 = analyst's correction error

m: OR001-9
. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2E4207

Print Analyst Name: Tamika Glenn

Analyst Signature:

Date: 8/16/13

Columns: ZB624 (60m x .25mm x 1.4µm)

Method V8260B

Initial Cal. Method M2E4202

Standard Data

Lot #	Description	Conc.
0131518/14	EXTG	100 ppm
116	B	↓
121	C	↓
57	Acrolein	100 ppm
108	Acrolein	↓

Standard Data

Lot #	Description	Conc.
0131518/106	A	100 ppm
116	B	↓
123	C	↓
120	I/S	25/250 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 8/19/13

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2E93514	BFB											ok	8:37pm	
	93515	CC4201-5									/		ok	25µl A+B+C+I/S/5 DFV	
	93516	LB													
	93517	MB									/		ok		
	93518	BS									/		ok		
	93519	JB44675-2MS	53257 TCL11	GW	2		5		1x		/		ok		✓
	93520	JB44675-2MSD	↓	↓	3		5		1x		/		ok		✓
	93521	JB44536-17	53156 TCL	↓	1		5		1x		/		ok		✓
	93522	JB44675-13	53257 TCL11	WB	1		5		1x		/		ok		✓
	93523	JB44675-14		WB	1		5		1x		/		ok		✓
	93524	JB44675-2		GW	1		5		1x		/		ok		✓
	93525	JB44675-1		↓	1		5		1x		/		ok		✓
	93526	JB44675-3			1		5		1x		/		ok		✓
	93527	JB44675-4			1		5		1x		/		ok		✓
	93528	JB44675-5			1		5		1x		/		ok		✓
	93529	JB44675-6			1		5		1x		/		ok		✓
	2E93530	JB44675-7	↓	↓	1		5		1x		/		ok		✓

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Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

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Form: OR001-9
Rev. Date: 2/14/2007

205

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2E4207

Date: 8/16/13

Print Analyst Name: Tamika Chinn

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Supp 205	

Columns: 7624

Method V8260B

Initial Cal. Method M2E4202

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 8/19/13

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2E93531	JB44675-8	53257 TCL11	W	1		5		1x		/				✓
	93532	JB44675-9			1		5		1x		/				✓
	93533	JB44675-10			1		5		1x		/				✓
	93534	JB44675-11			1		5		1x		/				✓
	93535	JB44675-12			1		5		1x		/				✓
	2E93536	JB44675-15			1		5		1x		/			7:16AM	✓

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Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

207