



**County of Nassau Department of Public
Works**

**Soil Vapor Intrusion Investigation
Report**

Mitchel Field Purex Groundwater Remediation
Facility

East Garden City, Nassau County, New York

April 23, 2012



Soil Vapor Intrusion Investigation Report

**Mitchel Field Purex Groundwater
Remediation Facility**

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County of Nassau Department of Public
Works

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In accordance with a New York State Department of Environmental Conservation (NYSDEC) - approved Work Plan, indoor air, outdoor air and sub-slab vapor samples were collected on February 8, 2012 from three buildings in the vicinity of the Mitchel Field Purex Groundwater Remediation Facility, East Garden City, Nassau County, New York. The samples were collected to evaluate if groundwater associated with the Mitchel Field Purex site is affecting air quality in the Concept 400 Building, the Metropolitan Suburban Bus Authority (MSBA) / Veolia Transportation Facility, and the UPS Distribution Building.

Indoor air, outdoor air and sub-slab vapor data indicate that VOCs in sub-slab vapor and indoor air at the MSBA Facility, Concept 400 Building and UPS Distribution Building are not related to groundwater associated with the Mitchel Field Purex site. Most volatile organic compounds (VOCs) that were detected in indoor air were present at concentrations similar to concentrations in outdoor air samples. Trichloroethene and tetrachloroethene indoor air concentrations were less than the corresponding New York State Department of Health (NYSDOH) air guideline values. Based on a comparison of indoor air and sub-slab vapor volatile organic compound concentrations to NYSDOH matrices, no further action is needed based on the concentrations of the vast majority of VOCs, with exceptions summarized below.

MSBA Facility

There may be an indoor or outdoor air source for carbon tetrachloride, with concentrations within the “take reasonable action to identify source(s) and reduce exposures” category on the NYSDOH Soil Vapor/Indoor Air Matrix 1. Carbon tetrachloride was not detected in the sub-slab vapor samples.

Concept 400 Building

There may be an indoor or outdoor air source for carbon tetrachloride, with concentrations within the “take reasonable action to identify source(s) and reduce exposures” category on the NYSDOH Soil Vapor/Indoor Air Matrix 1. Carbon tetrachloride was not detected in the sub-slab vapor samples.

UPS Distribution Building

There may be an indoor or outdoor air source for carbon tetrachloride, trichloroethene, and vinyl chloride, with concentrations within the “take reasonable action to identify source(s) and reduce exposures” category on the NYSDOH Soil Vapor/Indoor Air Matrix 1. Carbon tetrachloride, trichloroethene, and vinyl chloride were not detected in the sub-slab vapor samples.

1. Introduction

On behalf of the County of Nassau Department of Public Works, ARCADIS of New York, Inc. (ARCADIS) conducted indoor air, outdoor air, and sub-slab vapor sampling at three buildings in East Garden City, New York (Figure 1) in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Soil Vapor Intrusion Pathway Work Plan (Malcolm Pirnie, 2011). This sampling was performed to evaluate if volatile organic compounds (VOCs) in groundwater associated with the Mitchel Field Purex site are affecting air quality in these buildings. Sampling was conducted on February 8, 2012 at the UPS Distribution Building and the Concept 400 Building on Oak Street, East Garden City, NY and at the Metropolitan Suburban Bus Authority (MSBA) facility on Commercial Avenue, East Garden City, NY. The MSBA facility is currently owned and operated by Veolia Transportation. The MSBA facility is used for bus maintenance and storage. The building is two stories, with the second story being used as offices. The building construction is slab-on-grade with floor drains. The eastern half of the Concept 400 building is vacant and the west half of the building contained offices when the samples were collected. The building has no basement. The UPS Distribution Building is used for package distribution and truck parking/maintenance. The building is one floor with no basement, slab-on-grade construction with floor drains.

1.1 Site History

The Mitchel Field Purex Groundwater Remediation Facility (MFPGRF) is located at the corner of Commercial Avenue and Oak Street in East Garden City, New York (Figure 1). The MFPGRF was constructed to extract and treat contaminated groundwater from the source area, which is surrounded by a slurry wall, and the downgradient dissolved-phase volatile organic compound (VOC) plume associated with NYSDEC site # 130014. After being treated by air stripping, the extracted groundwater is pumped to a recharge basin. This system has been in operation for more than 20 years.

Nassau County acquired the Mitchel Field Purex site from the Purex Corporation to construct and expand the MSBA facility, located directly to the south and east of the MFPGRF treatment building. Soil and groundwater contamination was identified in 1981 during MSBA facility expansion activities. A Consent Order, which required Purex Corporation to design, construct, and operate a treatment system, was issued

on August 21, 1985. The Purex Corporation operated the groundwater extraction and treatment system from 1990 until 2003, when the Nassau County Department of Public Works assumed the responsibility for operation of the system.

As presented in a Periodic Review Report (Nassau County, 2009) and Annual Operations and Environmental Monitoring Summaries (Nassau County, 2003 through 2006), which were prepared by the Nassau County Department of Public Works, the operation of the system has resulted in significant progress toward meeting the remedial objectives. The collection and treatment of VOCs in the Upper Glacial Aquifer has been completed. Nassau County has monitored groundwater quality in the vicinity of the Mitchel Field Purex site biannually since 2003. Total VOC concentrations in the source area groundwater have decreased from 600 to less than 1 part per million (ppm). Groundwater concentrations have decreased from more than 30 ppm to less than 50 parts per billion (ppb) at most Upper Magothy monitoring well locations in the downgradient plume area.

As part of the New York State Department of Environmental Conservation's (NYSDEC) review of "legacy" sites for potential soil vapor intrusion, the NYSDEC requested that Nassau County conduct a soil vapor intrusion investigation at the site. The results of this investigation are provided below.

2. Field Activities

Soil vapor intrusion sampling was conducted at three buildings on February 8, 2012 in accordance with the NYSDEC-approved Soil Vapor Intrusion Pathway Work Plan (Malcolm Pirnie, 2011). The types of samples collected during this program included:

- Sub-slab vapor (SS);
- Indoor air – first floor (IA); and
- Ambient (outdoor) air (OA).

Prior to sampling, an inspection was conducted to complete a general inventory of products that could interfere with the interpretation of the sampling results. Interference from confounding sources of VOCs can complicate the interpretation of indoor air sampling data and the evaluation of soil vapor intrusion pathways. As such, pre-sampling product inventories were conducted to:

- Identify potential confounding sources;
- Screen the areas surrounding the identified confounding sources for VOCs; and
- Determine the most effective method for managing the potential confounding source.

A portable photo-ionization detector (PID), capable of measuring to a part per billion, was used to screen for total VOCs in air surrounding each potential confounding source. Because the detection limits of the portable PID are higher than those of laboratory analyses, the PID measurements, which are not compound specific, were only used to assess gross interferences from potential confounding sources. At the MSBA Facility, a 22-gallon Safety Clean Parts Cleaning Solvent drum, spray paint, and a painting area were observed near one sample (PMF-MSBA-IA/SS-05). Multiple aerosols, glass cleaner, roach and ant killer, and graffiti remover were present in the vicinity of a second sample (PMF-MSBA-IA/SS-06). A 55-gallon drum of hydraulic fluid was noted in the vicinity of a third sample (PMF-MSBA-IA/SS-08). No chemicals or cleaning products were identified in the Concept 400 building. *A product inventory was not conducted at the UPS Distribution Building at the request of the facility supervisor.*

2.1 Sampling Procedures

Indoor and outdoor air and sub-slab vapor samples were collected in accordance with the October 2006 Final NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH 2006). Indoor and outdoor air and sub-slab vapor samples were collected in laboratory-certified clean six-liter Summa canisters over an 8-hour collection period. Samples were collected during normal business hours and under heating conditions. Duplicate samples of indoor air and sub-slab vapor (PMF-MSBA-SS/IA-11) were collected at the MSBA Facility at sample location PMF-MSBA-SS/IA-08.

Sub-slab vapor sampling ports were installed by drilling through the concrete floor slab using an electric hammer drill. Tracer-gas (helium) testing was conducted to verify the integrity of the sampling port seal. A portable meter was used to analyze a sample of sub-slab vapor for the helium prior to sample collection. Helium concentrations in each of the sub-slab points were less than 775 parts per million (ppm) during the testing. As the tracer test helium concentrations were less than 10%, the data indicate that the sample ports were properly sealed (NYSDOH, 2006). After the sample was collected, each sampling port was removed and the hole was sealed with cement.

2.2 MSBA Facility

Indoor air and sub-slab soil vapor samples were collected at four locations in the MSBA Facility (Figure 1). One sample set (PMF-MSBA-IA/SS-05) was collected in a machine shop/storage area, one sample set (PMF-MSBA-IA/SS-06) was collected in a bus maintenance area and two sample sets (PMF-MSBA-IA/SS-07 and PMF-MSBA-IA/SS-08) were collected in the main bus parking area. The slab thickness was approximately eight inches at each sampling location. One outdoor air sample was collected on the northwest side of the building.

2.3 Concept 400 Building

Indoor air and sub-slab soil vapor samples were collected in the northern (PMF-CONC-SS/IA-09) and southern (PMF-CONC-SS/IA-10) portions of the Concept 400 Building (Figure 1). The slab thickness was approximately four inches. The room in the northern portion of the building contained a crack in the concrete slab approximately two inches wide and eight inches long. It is unknown if the crack extended through the slab, but this is likely. The room in the southern portion of the building was carpeted.

2.4 UPS Distribution Building

Indoor air and sub-slab vapor samples were collected at four locations in the UPS Distribution Building. One sample set (PMF-UPS-IA/SS 01) was collected from a vacant office, two sample sets (PMF-UPS-IA/SS-02 AND PMF-UPS-IA/SS-04) were collected from the main distribution and truck parking area, and one sample set (PMF-UPS-IA/SS-03) was collected from an in-use office space. The slab thickness was approximately eight inches at each sampling location. A vehicle maintenance bay was located in the southern portion of the building, but a product inventory was not permitted by the facility supervisor. One outdoor air sample was collected near the security building on the property, to the south of the UPS Distribution Building (Figure 1).

3. Results

The indoor air, outdoor air and sub-slab vapor analytical results are presented in Tables 1 through 3. Laboratory data packages are provided in Appendix A. The samples were analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method TO-15. The analytical data was validated by Data Validation Services according to the NYSDEC Division of Environmental Remediation Data

Usability Summary Report (DUSR) guidelines. The validated analytical results are summarized in Tables 1 through 3. The DUSR is included as Appendix B. Data was compared to NYSDOH air guideline values and Soil Vapor/Indoor Air Decision Matrices 1 and 2 (NYSDOH, 2006).

3.1 MSBA Facility

The MSBA Facility sample analytical results are shown in Table 1. Detected concentrations of site-related compounds and non-site related compounds are discussed below. Site-related compounds refer to VOCs historically detected in groundwater sampled at the Mitchel Field Purex site.

3.1.1 Site-Related Compounds

Carbon tetrachloride was detected in each of the indoor air samples collected at the MSBA Facility at concentrations ranging from 0.38 (estimated) to 0.46 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), but was not detected in sub-slab vapor. Carbon tetrachloride concentrations in the outdoor air sample ($0.45 \mu\text{g}/\text{m}^3$) collected outside the MSBA facility were comparable to indoor air concentrations and therefore indicative of background air quality at the site. Carbon tetrachloride was not detected in groundwater sampled from site monitoring wells in 2011.

1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethylene (PCE) and trichloroethylene (TCE) were detected at concentrations that require no further action in comparison to the NYSDOH matrices. PCE was detected in indoor air at concentrations ranging from not detected (PMF-MSBA-IA-07) to $0.58 \mu\text{g}/\text{m}^3$ (PMF-MSBA-IA-06), which is significantly less than the NYSDOH air guideline value of $100 \mu\text{g}/\text{m}^3$. TCE was not detected in indoor air.

Methylene chloride was detected in the sub-slab vapor sample from PMF-MSBA-SS-07 ($25 \mu\text{g}/\text{m}^3$) and at lower concentrations in three indoor air samples. Methylene chloride in indoor air ranged from 1.3 to $2 \mu\text{g}/\text{m}^3$, similar to outdoor air methylene chloride concentrations ($1.6 \mu\text{g}/\text{m}^3$). Although dichlorodifluoromethane (Freon 12) was detected in each of the sub-slab vapor samples at concentrations ranging from $25 \mu\text{g}/\text{m}^3$ to $370 \mu\text{g}/\text{m}^3$, indoor air concentrations were comparable to outdoor air sample concentrations.

Chloromethane, ethylbenzene, trichlorofluoromethane (Freon 11), o-xylenes, 1,2,4 – trimethylbenzene and 1,3,5 trimethylbenzene were detected in at least one indoor air

or sub-slab vapor sample at the MSBA Facility; however, these compounds were not detected in groundwater during the 2008 sampling event (Nassau County, 2009). Other detected VOCs (benzene, chloroform, m & p xylenes, o-xylenes, toluene 1,1-dichloroethane, and 1,1,2-trichloro-1,2,2 trifluoroethane [Freon 113]) were present in either indoor air or sub-slab vapor at concentrations less than $4 \mu\text{g}/\text{m}^3$, with the exception of m & p xylenes and o-xylenes at PMF-MSBA-IA-05 ($71 \mu\text{g}/\text{m}^3$ and $25 \mu\text{g}/\text{m}^3$, respectively), and were either detected in indoor air at higher concentrations than sub-slab vapor or they were present in sub-slab vapor but not in indoor air.

3.1.2 Non-Site-Related Compounds

Ethanol was detected in each of the indoor air samples and two of the sub-slab vapor samples. Ethanol concentrations in indoor air at PMF-MSBA-IA -05 (estimated $1,900 \mu\text{g}/\text{m}^3$) are higher than sub-slab vapor concentrations and thus are likely related to an indoor source.

2-Butanone (MEK) was detected in the sub-slab vapor sample from PMF-MSBA-SS-08 ($15 \mu\text{g}/\text{m}^3$), but was not detected in indoor air. Cyclohexane and 4-methyl-2-pentanone (MIBK) were detected at low concentrations in at least one indoor air sample and one sub-slab sample. The presence of ethanol, MEK, MIBK and cyclohexane in indoor air is likely unrelated to groundwater since these compounds have not been historically detected in groundwater.

3.2 Concept 400 Building

The Concept 400 analytical results are shown in Table 2. Detected concentrations of site-related compounds and non-site related compounds are discussed below. Site-related compounds refer to VOCs historically detected in groundwater at the Mitchel Field Purex site.

3.2.1 Site-Related Compounds

Carbon tetrachloride, which was not detected in sub-slab vapor samples, was detected in both indoor air samples collected at the Concept 400 Building ($0.43 \mu\text{g}/\text{m}^3$ and $0.45 \mu\text{g}/\text{m}^3$) at concentrations similar to outdoor air samples collected to the south of the UPS Distribution Building and to the north of the MSBA Facility ($0.43 \mu\text{g}/\text{m}^3$ and $0.45 \mu\text{g}/\text{m}^3$, respectively). PCE was detected in both sub-slab vapor samples in the Concept 400 Building (8 and $6.7 \mu\text{g}/\text{m}^3$), but not in either indoor air sample. Based on

comparisons of the data to the NYSDOH matrices, no further action regarding PCE is required. TCE was not detected in samples collected from the Concept 400 Building.

Methylene chloride was detected in both sub-slab vapor ($6.8 \mu\text{g}/\text{m}^3$) and indoor air ($5 \mu\text{g}/\text{m}^3$) at PMF-CONC-IA/SS-09 and in indoor air ($1.4 \mu\text{g}/\text{m}^3$) at PMF-CONC-IA-10.

Chloromethane, and Freon 11 were detected in at least one indoor air or sub-slab vapor sample but were not detected in groundwater sampled during the 2011 sampling event (Nassau County, 2009). Six other detected VOCs (benzene, chloroform, 1,4-dichlorobenzene, toluene, Freon 12, and Freon 113) were present at concentrations less than $5 \mu\text{g}/\text{m}^3$ and were either detected in indoor air at greater concentrations than sub-slab vapor or they were present in sub-slab vapor but not in indoor air. Exceptions include benzene and toluene at PMF-CONC-SS/IA-10.

3.2.2 Non-Site-Related Compounds

Ethanol was detected in both indoor air samples (estimated 110 and estimated $84 \mu\text{g}/\text{m}^3$) and one sub-slab vapor sample (estimated $18 \mu\text{g}/\text{m}^3$). As ethanol concentrations in the sub-slab vapor are lower than in the indoor air, concentrations are likely related to an indoor source. Cyclohexane was detected at $0.49 \mu\text{g}/\text{m}^3$ in one sub-slab vapor sample from the Concept 400 building. Ethanol and cyclohexane are not site-related compounds, so their presence is likely unrelated to groundwater.

3.3 UPS Distribution Building

The UPS Distribution Building analytical results are shown in Table 3. Detected concentrations of site-related compounds and non-site related compounds are discussed below. Site-related compounds refer to VOCs historically detected in groundwater sampled at the Mitchel Field Purex site.

3.3.1 Site-Related Compounds

Carbon tetrachloride was detected in each indoor air sample at concentrations ranging from 0.38 to $0.47 \mu\text{g}/\text{m}^3$, but was not detected in sub-slab vapor. As carbon tetrachloride was also present in similar concentrations in the outdoor air sampled at the UPS Distribution Building ($0.43 \mu\text{g}/\text{m}^3$), the carbon tetrachloride concentrations in indoor air are comparable to background conditions. TCE was detected in indoor air in three samples, ranging from 0.25 to $0.51 \mu\text{g}/\text{m}^3$, at concentrations less than the NYSDOH air guideline value of $5 \mu\text{g}/\text{m}^3$. Vinyl chloride was detected in three indoor air

samples at the UPS Distribution Building at concentrations ranging from 0.13 to 0.34 $\mu\text{g}/\text{m}^3$. TCE and vinyl chloride were not detected in sub-slab soil vapor; therefore, the presence of these compounds in indoor air is likely related to an indoor source as TCE was not detected in outdoor air samples.

PCE was detected in three sub-slab soil vapor samples, ranging from 3.1 $\mu\text{g}/\text{m}^3$ to 25 $\mu\text{g}/\text{m}^3$, and at lower concentrations in two indoor air samples (0.25 $\mu\text{g}/\text{m}^3$ and 0.49 $\mu\text{g}/\text{m}^3$). Indoor air PCE concentrations were significantly less than the NYSDOH air guideline value of 100 $\mu\text{g}/\text{m}^3$. Based on a comparison of the analytical data to NYSDOH Matrix 2, no further action with respect to PCE is required.

Freon 12 and Freon 113 were detected in indoor air (maximum concentrations of 2.6 and 0.61 $\mu\text{g}/\text{m}^3$, respectively) or sub-slab air vapor (maximum concentrations of 2.9 and 0.77 $\mu\text{g}/\text{m}^3$, respectively), but were also detected in similar concentrations in outdoor air (2.8 and 0.63 $\mu\text{g}/\text{m}^3$, respectively). Chloroform was detected at PMF-UPS-IA/SS-02 (4 $\mu\text{g}/\text{m}^3$ in sub-slab vapor and 0.28 $\mu\text{g}/\text{m}^3$ in indoor air) and PMF-UPS-IA/SS-03 (1.3 $\mu\text{g}/\text{m}^3$ in sub-slab vapor and 0.31 $\mu\text{g}/\text{m}^3$ in indoor air), in addition to in indoor air only at PMF-UPS-IA-01 and PMF-UPS-IA-04.

Several compounds (chlorobenzene, chloromethane, ethylbenzene, Freon 11, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene) were detected in at least one indoor air or sub-slab vapor sample but were not detected during the 2011 groundwater sampling event, indicating that their presence is likely unrelated to groundwater.

Other detected VOCs (benzene, 1,4-dichlorobenzene, 1,2 dichlorobenzene, 1,2-dichloroethane, chloroform, methylene chloride, toluene, m & p xylenes, o-xylenes and 1,1,1-trichloroethane) were present at concentrations less than 22 $\mu\text{g}/\text{m}^3$ and were either detected at a higher concentration in indoor air or they were present in sub-slab vapor but not in indoor air.

3.3.2 Non-Site-Related Compounds

Ethanol was detected in each indoor air sample and two of the sub-slab soil vapor samples. The indoor air concentrations were higher than the sub-slab concentrations, suggesting an indoor air source.

Chloroethane, cyclohexane, MIBK, 1,2,4-trichlorobenzene and 2,2,4-trimethylpentane, and styrene were detected in low concentrations in at least one indoor air or sub-slab vapor sample. The presence of these compounds is likely unrelated to groundwater.

4. Conclusions

Indoor air, outdoor air and sub-slab vapor samples were collected on February 8, 2012 in accordance with the NYSDEC-approved Work Plan (Malcolm Pirnie, 2011) to evaluate if groundwater associated with the Mitchel Field Purex site is affecting air quality in the MSBA Facility, the Concept 400 Building and the UPS Distribution Building in East Garden City, New York.

Indoor air, outdoor air and sub-slab vapor data indicate that VOCs in sub-slab vapor and indoor air at the MSBA Facility, Concept 400 Building and UPS Distribution Building are not related to groundwater associated with the Mitchel Field Purex site.

4.1 MSBA Facility

Most VOCs that were detected in indoor air were present at concentrations similar to concentrations in outdoor air samples. TCE and PCE indoor air concentrations were less than the corresponding NYSDOH air guideline values. TCE was not detected in indoor air samples collected from the MSBA facility. Based on a comparison of indoor air and sub-slab vapor PCE concentrations to NYSDOH Matrix 2, **no further action** is needed due to PCE concentrations.

When compared to the NYSDOH Matrix 1, carbon tetrachloride is within the "take reasonable action to identify source(s) and reduce exposures" category because the indoor air concentrations in all three buildings are slightly greater than $0.25 \mu\text{g}/\text{m}^3$. However, carbon tetrachloride was not detected in the sub-slab vapor samples. Carbon tetrachloride indoor air concentrations are similar to outdoor air concentrations and appear to be indicative of background air quality at the site.

4.2 Concept 400 Building

Most VOCs that were detected in the Concept 400 Building indoor air samples were present at concentrations similar to concentrations in outdoor air samples. TCE and PCE indoor air concentrations were less than the corresponding NYSDOH air guideline values. TCE was not detected in indoor air samples collected from the Concept 400 building. Based on a comparison of indoor air and sub-slab vapor PCE concentrations to NYSDOH Matrix 2, **no further action** is needed due to PCE concentrations.

When compared to the NYSDOH Matrix 1, carbon tetrachloride is within the "take reasonable action to identify source(s) and reduce exposures" category because the

indoor air concentrations in all three buildings are slightly greater than $0.25 \mu\text{g}/\text{m}^3$. However, carbon tetrachloride was not detected in the sub-slab vapor samples. Carbon tetrachloride indoor air concentrations are similar to outdoor air concentrations and appear to be indicative of background air quality.

4.3 UPS Distribution Building

Most VOCs that were detected in indoor air were present at concentrations similar to concentrations in outdoor air samples. TCE and PCE indoor air concentrations were less than the corresponding NYSDOH air guideline values. Based on a comparison of indoor air and sub-slab vapor PCE concentrations to NYSDOH Matrix 2, no further action is needed due to PCE concentrations. TCE was present in three of the four indoor air samples collected from the UPS distribution building at concentrations ranging from 0.25 to $0.51 \mu\text{g}/\text{m}^3$. There is likely an indoor source of TCE as it was not detected in sub-slab vapor samples.

No further action is required at the UPS Distribution Building based on a comparison of analytical results to the NYSDOH matrices, with the exception of carbon tetrachloride, TCE and vinyl chloride. Even though carbon tetrachloride, TCE, and vinyl chloride were not detected in sub-slab vapor samples at the UPS Distribution Building, these VOCs are within the “take reasonable action to identify source(s) and reduce exposures” category because indoor air samples at several sampling locations contained concentrations slightly greater than $0.25 \mu\text{g}/\text{m}^3$. As TCE and vinyl chloride were not detected in the outdoor air or sub-slab vapor samples, there may be a source of TCE and vinyl chloride in the UPS Distribution Building. Carbon tetrachloride indoor air concentrations are similar to outdoor air concentrations and appear to be indicative of background air quality.

5. References

Malcolm Pirnie, 2011. *Soil Vapor Intrusion Pathway Work Plan*, Mitchel Field Purex Groundwater Remediation Facility, East Garden City, Nassau County, New York, February 2011.

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Figure 1



Table 1
MSBA Facility
Mitchel Field Purex Groundwater Remediation Facility
East Garden City, New York
Soil Vapor Intrusion Sampling Analytical Results, February 2012

SAMPLE ID	PMF-MSBA-SS-05 Sub-slab Vapor	PMF-MSBA-IA-05 Indoor Air	PMF-MSBA-SS-06 Sub-slab Vapor	PMF-MSBA-IA-06 Indoor Air	PMF-MSBA-SS-07 Sub-slab Vapor	PMF-MSBA-IA-07 Indoor Air	PMF-MSBA-SS-08 Sub-slab Vapor	PMF-MSBA-SS-11 (dup. of SS-08) Sub-slab Vapor	PMF-MSBA-IA-08 Indoor Air	PMF-MSBA-IA-11 (dup. of IA-08) Indoor Air	PMF-MSBA-OA-02 Outdoor Air
MATRIX											
Benzene	0.32 U	0.57	0.32 U	0.68	0.32 U	0.74	0.32 U	0.32 U	0.72	0.59	0.44
Benzyl chloride	0.52 U	0.18 U	0.52 U	0.18 U	0.52 U	0.18 U	0.52 U	0.52 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.67 U	0.24 U	0.67 U	0.24 U	0.67 U	0.24 U	0.67 U	0.67 U	0.24 U	0.24 U	0.24 U
Bromoform	1 U	0.36 U	1 U	0.36 U	1 U	0.36 U	1 U	1 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.39 U	0.14 U	0.39 U	0.14 U	0.39 U	0.14 U	0.39 U	0.39 U	0.14 U	0.14 U	0.14 U
2-Butanone (MEK)	12 U	4.1 U	12 U	4.1 U	12 U	4.1 U	15	14	4.1 U	4.1 U	4.1 U
tert-Butyl Alcohol (TBA)	1.2 U	0.44 U	1.2 U	0.44 U	1.2 U	0.44 U	1.2 U	1.2 U	0.44 U	0.44 U	0.44 U
Carbon Tetrachloride	0.63 U	0.38 NJ	0.63 U	0.44	0.63 U	0.43	0.63 U	0.63 U	0.46	0.41	0.45
Chlorobenzene	0.46 U	0.16 U	0.46 U	0.16 U	0.46 U	0.16 U	0.46 U	0.46 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.26 U	0.093 U	0.26 U	0.093 U	0.26 U	0.093 U	0.26 U	0.26 U	0.093 U	0.093 U	0.093 U
Chloroform	0.49 U	0.17 U	0.49 U	0.57	0.49 U	0.17 U	0.71	0.69	0.17 U	0.17 U	0.17 U
Chloromethane	0.21 U	1.2	0.21 U	0.95	0.21 U	1.2	0.38	0.21 U	1.5	1	1.1
Cyclohexane	0.34 U	0.32	0.34 U	0.12 U	0.34 U	0.12 U	0.45	0.34 U	0.12 U	0.12 U	0.12 U
Dibromodichloromethane	0.85 U	0.3 U	0.85 U	0.3 U	0.85 U	0.3 U	0.85 U	0.85 U	0.3 U	0.3 U	0.3 U
1,2-Dibromoethane (EDB)	0.77 U	0.27 U	0.77 U	0.27 U	0.77 U	0.27 U	0.77 U	0.77 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.6 U	0.21 U	0.21 U	0.21 U
1,3-Dichlorobenzene	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.6 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.6 U	0.21 U	0.21 U	0.21 U
Dichlorodifluoromethane (Freon 12)	370	3	41	2.6	25	2.8	99	99	2.8	2.7	2.9
1,1-Dichloroethane	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.57	0.53	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	0.14 U	0.14 U	0.14 U
cis-1,2-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	0.14 U	0.14 U	0.14 U
trans-1,2-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.46 U	0.16 U	0.46 U	0.16 U	0.46 U	0.16 U	0.46 U	0.46 U	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.45 U	0.16 U	0.16 U	0.16 U
trans-1,3-Dichloropropene	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.45 U	0.16 U	0.16 U	0.16 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.7 U	0.25 U	0.7 U	0.25 U	0.7 U	0.25 U	0.7 U	0.7 U	0.25 U	0.25 U	0.25 U
1,4-Dioxane	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.36 U	0.13 U	0.13 U	0.13 U
Ethanol	170 J	1900 J	7.5 UJ	11 J	16 J	9.6 J	7.5 UJ	7.5 UJ	9.4 J	7.9 J	4.6 J
Ethylbenzene	0.43 U	18	0.43 U	0.38	0.43 U	0.15 U	0.43 U	0.43 U	0.2	0.15 U	0.15 U
Hexachlorobutadiene	1.1 U	0.37 U	1.1 U	0.37 U	1.1 U	0.37 U	1.1 U	1.1 U	0.37 U	0.37 U	0.37 U
Hexane	14 U	4.9 U	14 U	4.9 U	14 U	4.9 U	14 U	14 U	4.9 U	4.9 U	4.9 U
Methyl tert-Butyl Ether (MTBE)	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.36 U	0.13 U	0.13 U	0.13 U
Methylene Chloride	3.5 U	2	3.5 U	2.8 U	25	1.3	3.5 U	4.3	1.4	1.5	1.6
4-Methyl-2-pentanone (MIBK)	0.45 J	14	0.41 UJ	0.5	0.41 UJ	0.43	0.41 UJ	0.41 UJ	0.42 NJ	0.3	0.14 U
Styrene	0.43 U	0.15	0.43 U	0.15 U	0.43 U	0.15 U	0.43 U	0.43 U	0.15 U	0.15 U	0.15 U
1,1,2,2-Tetrachloroethane	0.69 U	0.24 U	0.69 U	0.24 U	0.69 U	0.24 U	0.69 U	0.69 U	0.24 U	0.24 U	0.24 U
Tetrachloroethylene (PCE)	2.7	0.38	14	0.58	2.1	0.24 U	41	38	0.26	0.24 U	0.3
Toluene	0.38 U	2.2	0.38 U	2.8	0.38 U	1.3	0.38 U	3.5	1.5	0.85	0.74
1,2,4-Trichlorobenzene	1.5 U	0.52 U	1.5 U	0.52 U	1.5 U	0.52 U	1.5 U	1.5 U	0.52 U	0.52 U	0.52 U
1,1,1-Trichloroethane (1,1,1 TCA)	0.55 U	0.19 U	0.87	0.19 U	0.55 U	0.19 U	3.8	3.7	0.19 U	0.19 U	0.19 U
1,1,2-Trichloroethane	0.55 U	0.19 U	0.55 U	0.19 U	0.55 U	0.19 U	0.55 U	0.55 U	0.19 U	0.19 U	0.19 U
Trichloroethylene (TCE)	0.54 U	0.19 U	2	0.19 U	0.54 U	0.19 U	12	11	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane (Freon 11)	5.8	1.5	8.2	1.2	1.4	1.4	2.9	2.7	1.4	1.2	1.5
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77 U	0.62	0.77 U	0.64	0.77 U	0.64	0.81	0.92	0.67	0.63	0.63
1,2,4-Trimethylbenzene	16	0.48	0.49 U	1.9	2.4	0.17 U	0.49 U	0.49 U	0.22	0.17 U	0.17 U
1,3,5-Trimethylbenzene	3.6	0.17 U	0.49 U	0.61	0.49 U	0.17 U	0.49 U	0.49 U	0.17 U	0.17 U	0.17 U
2,2,4-Trimethylpentane	1.3 UJ	0.44 UJ	1.3 UJ	0.44 UJ	1.3 UJ	0.44 UJ	1.3 UJ	1.3 UJ	0.44 UJ	0.44 UJ	0.44 UJ
Vinyl Chloride	0.26 U	0.09 U	0.26 U	0.09 U	0.26 U	0.09 U	0.26 U	0.26 U	0.09 U	0.09 U	0.09 U
m&p-Xylene	1.3	71	0.87 U	1.6	0.87 U	0.48	0.87 U	0.87 U	0.77	0.3 U	0.3 U
o-Xylene	0.6	25	0.43 U	0.73	0.43 U	0.18	0.43 U	0.43 U	0.24	0.15 U	0.15 U

Samples Collected on 2/8/12

All data is in micrograms per cubic meter (ug/m³)

U: Not detected

J: Estimated

N: Tentative in identification

Table 2
Concept 400 Building
Mitchel Field Purex Groundwater Remediation Facility
East Garden City, New York
Soil Vapor Intrusion Sampling Analytical Results, February 2012

SAMPLE ID	PMF-CONC-SS-09 Sub-slab Vapor	PMF-CONC-IA-09 Indoor Air	PMF-CONC-SS-10 Sub-slab Vapor	PMF-CONC-IA-10 Indoor Air
MATRIX				
Benzene	0.32 U	0.93	1.5	0.62
Benzyl chloride	0.52 U	0.18 U	0.52 U	0.18 U
Bromodichloromethane	0.67 U	0.24 U	0.67 U	0.24 U
Bromoform	1 U	0.36 U	1 U	0.36 U
Bromomethane	0.39 U	0.14 U	0.39 U	0.14 U
2-Butanone (MEK)	12 U	4.1 U	12 U	4.1 U
tert-Butyl Alcohol (TBA)	1.2 U	0.44 U	1.2 U	0.44 U
Carbon Tetrachloride	0.63 U	0.43	0.63 U	0.45
Chlorobenzene	0.46 U	0.16 U	0.46 U	0.16 U
Chloroethane	0.26 U	0.093 U	0.26 U	0.093 U
Chloroform	0.49 U	0.17 U	1.2	0.17 U
Chloromethane	0.21 U	1.2	0.21 U	0.93
Cyclohexane	0.49	0.12 U	0.34 U	0.12 U
Dibromochloromethane	0.85 U	0.3 U	0.85 U	0.3 U
1,2-Dibromoethane (EDB)	0.77 U	0.27 U	0.77 U	0.27 U
1,2-Dichlorobenzene	0.6 U	0.21 U	0.6 U	0.21 U
1,3-Dichlorobenzene	0.6 U	0.21 U	0.6 U	0.21 U
1,4-Dichlorobenzene	0.6 U	0.32	0.6 U	0.28
Dichlorodifluoromethane (Freon 12)	2.9	2.8	4.1	2.7
1,1-Dichloroethane	0.4 U	0.14 U	0.4 U	0.14 U
1,2-Dichloroethane	0.4 U	0.14 U	0.4 U	0.14 U
1,1-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U
cis-1,2-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U
trans-1,2-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U
1,2-Dichloropropane	0.46 U	0.16 U	0.46 U	0.16 U
cis-1,3-Dichloropropene	0.45 U	0.16 U	0.45 U	0.16 U
trans-1,3-Dichloropropene	0.45 U	0.16 U	0.45 U	0.16 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.7 U	0.25 U	0.7 U	0.25 U
1,4-Dioxane	0.36 U	0.13 U	0.36 U	0.13 U
Ethanol	7.5 UJ	110 J	18 J	84 J
Ethylbenzene	0.43 U	0.15 U	0.43 U	0.15 U
Hexachlorobutadiene	1.1 U	0.37 U	1.1 U	0.37 U
Hexane	14 U	4.9 U	14 U	4.9 U
Methyl tert-Butyl Ether (MTBE)	0.36 U	0.13 U	0.36 U	0.13 U
Methylene Chloride	6.8	5	3.5 U	1.4
4-Methyl-2-pentanone (MIBK)	0.41 UJ	0.14 U	0.41 UJ	0.14 U
Styrene	0.43 U	0.15 U	0.43 U	0.15 U
1,1,1,2-Tetrachloroethane	0.69 U	0.24 U	0.69 U	0.24 U
Tetrachloroethylene (PCE)	8	0.24 U	6.7	0.24 U
Toluene	0.39	0.75	1.1	0.57
1,2,4-Trichlorobenzene	1.5 U	0.52 U	1.5 U	0.52 U
1,1,1-Trichloroethane (1,1,1-TCA)	0.55 U	0.19 U	0.55 U	0.19 U
1,1,2-Trichloroethane	0.55 U	0.19 U	0.55 U	0.19 U
Trichloroethylene (TCE)	0.54 U	0.19 U	0.54 U	0.19 U
Trichlorofluoromethane (Freon 11)	61	54	110	55
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77 U	0.64	0.77 U	0.62
1,2,4-Trimethylbenzene	0.49 U	0.17 U	0.49 U	0.17 U
1,3,5-Trimethylbenzene	0.49 U	0.17 U	0.49 U	0.17 U
2,2,4-Trimethylpentane	1.3 UJ	0.44 UJ	1.3 UJ	0.44 UJ
Vinyl Chloride	0.26 U	0.09 U	0.26 U	0.09 U
m&p-Xylene	0.87 U	0.3 U	0.87 U	0.3 U
o-Xylene	0.43 U	0.15 U	0.43 U	0.15 U

Samples Collected on 2/8/12

All data is in micrograms per cubic meter(ug/m³)

U: Not detected

Table 3
UPS Distribution Building
Mitchel Field Purex Groundwater Remediation Facility
East Garden City, New York
Soil Vapor Intrusion Sampling Analytical Results, February 2012

SAMPLE ID MATRIX	PMF-UPS-SS01 Sub-slab Vapor	PMF-UPS-IA01 Indoor Air	PMF-UPS-SS02 Sub-slab Vapor	IA02 Indoor Air	PMF-UPS-SS03 Sub-slab Vapor	PMF-UPS-IA03 Indoor Air	PMF-UPS-SS04 Sub-slab Vapor	IA04 Indoor Air	PMF-UPS-OA01 Outdoor Air
Benzene	0.58	3.2	1	2.8	0.32 U	5	0.32 U	6.1	0.51
Benzyl chloride	0.52 U	0.18 U	0.52 U	0.18 U	0.52 U	0.18 U	0.52 U	0.18 U	0.18 U
Bromodichloromethane	0.67 U	0.24 U	0.67 U	0.24 U	0.67 U	0.24 U	0.67 U	0.24 U	0.24 U
Bromoform	1 U	0.36 U	1 U	0.36 U	1 U	0.36 U	1 U	0.36 U	0.36 U
Bromomethane	0.39 U	0.14 U	0.39 U	0.14 U	0.39 U	0.14 U	0.39 U	0.14 U	0.14 U
2-Butanone (MEK)	12 U	4.1 U	12 U	4.1 U	12 U	4.1 U	12 U	4.1 U	4.1 U
tert-Butyl Alcohol (TBA)	1.2 U	0.44 U	1.2 U	0.44 U	1.2 U	0.44 U	1.2 U	0.44 U	0.44 U
Carbon Tetrachloride	0.63 U	0.45	0.63 U	0.38	0.63 U	0.47	0.63 U	0.45	0.43
Chlorobenzene	0.46 U	0.19	0.46 U	0.16 U	0.46 U	0.16 U	0.46 U	0.16 U	0.16 U
Chloroethane	0.26 U	0.27	0.26 U	0.093 U	0.26 U	0.093 U	0.26 U	0.093 U	0.093 U
Chloroform	0.49 U	0.27	4	0.28	1.3	0.31	0.49 U	0.27	0.17 U
Chloromethane	0.36	2.1	0.84	1.1	0.28	1.5	0.21 U	1.3	0.91
Cyclohexane	0.34 U	1.3	0.34 U	0.89	0.34 U	2.8	0.34 U	0.96	0.12 U
Dibromochloromethane	0.85 U	0.3 U	0.85 U	0.3 U	0.85 U	0.3 U	0.85 U	0.3 U	0.3 U
1,2-Dibromoethane (EDB)	0.77 U	0.27 U	0.77 U	0.27 U	0.77 U	0.27 U	0.77 U	0.27 U	0.27 U
1,2-Dichlorobenzene	1	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.21 U
1,3-Dichlorobenzene	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.6 U	0.21 U	0.95	0.21 U	0.6 U	0.21 U	0.6 U	0.21 U	0.21 U
Dichlorodifluoromethane (Freon 12)	2.8	2.6	2.9	2.6	2.9	2.5	2.9	2.6	2.8
1,1-Dichloroethane	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.14 U
1,2-Dichloroethane	0.4 U	0.17 NJ	0.4 U	0.16	0.4 U	0.25 NJ	0.4 U	0.2	0.14 U
1,1-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.14 U
cis-1,2-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.14 U
trans-1,2-Dichloroethylene	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.4 U	0.14 U	0.14 U
1,2-Dichloropropane	0.46 U	0.16 U	0.46 U	0.16 U	0.46 U	0.16 U	0.46 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.16 U	0.16 U
trans-1,3-Dichloropropene	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.16 U	0.45 U	0.16 U	0.16 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.7 U	0.25 U	0.7 U	0.25 U	0.7 U	0.25 U	0.7 U	0.25 U	0.25 U
1,4-Dioxane	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.13 U	0.13 U
Ethanol	21 J	23 J	7.5 UJ	20 J	23 J	99 J	7.5 UJ	24 J	5.4 J
Ethylbenzene	0.76	2.3	1.9	2.5	0.43 U	2.6	0.43 U	2.9	0.16
Hexachlorobutadiene	1.1 U	0.37 U	1.1 U	0.37 U	1.1 U	0.37 U	1.1 U	0.37 U	0.37 U
Hexane	14 U	4.9 U	14 U	4.9 U	14 U	4.9 U	14 U	4.9 U	4.9 U
Methyl tert-Butyl Ether (MTBE)	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.13 U	0.36 U	0.13 U	0.13 U
Methylene Chloride	3.5 U	1.3	3.5 U	2	3.5 U	1.2	3.5 U	3.3	1.2 U
4-Methyl-2-pentanone (MIBK)	0.41 UJ	0.64	0.76 J	0.36	0.41 UJ	0.78	0.41 UJ	0.39	0.14 U
Styrene	0.53	0.81	0.63	0.61	0.43 U	0.48	0.43 U	2	0.15 U
1,1,2,2-Tetrachloroethane	0.69 U	0.24 U	0.69 U	0.24 U	0.69 U	0.24 U	0.69 U	0.24 U	0.24 U
Tetrachloroethylene (PCE)	25	0.49	3.1	0.24 U	0.68 U	0.25	5.6	0.24 U	0.24 U
Toluene	2.5	14	12	22	0.38 U	22	0.38 U	22	1.3
1,2,4-Trichlorobenzene	1.6	0.52 U	1.5 U	0.52 U	1.5 U	0.52 U	1.5 U	0.52 U	0.52 U
1,1,1-Trichloroethane (1,1,1-TCA)	0.55 U	0.19 U	0.55 U	0.19 U	2.5	0.19 U	0.55 U	0.19 U	0.19 U
1,1,2-Trichloroethane	0.55 U	0.19 U	0.55 U	0.19 U	0.55 U	0.19 U	0.55 U	0.19 U	0.19 U
Trichloroethylene (TCE)	0.54 U	0.51	0.54 U	0.19 U	0.54 U	0.28	0.54 U	0.25	0.19 U
Trichlorofluoromethane (Freon 11)	2.3	1.8	5.8	1.7	5.4	1.8	4.1	1.7	1.4
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77	0.61	0.77 U	0.59	0.77 U	0.6	0.77 U	0.61	0.63
1,2,4-Trimethylbenzene	0.49 U	2	1.1	1.5	0.49 U	2	0.49 U	2	0.17 U
1,3,5-Trimethylbenzene	0.49 U	0.53	0.49 U	0.38	0.49 U	0.86	0.49 U	0.55	0.17 U
2,2,4-Trimethylpentane	1.3 UJ	1.7 J	1.3 UJ	1.4 J	1.3 UJ	2.4 J	1.3 UJ	1.9 J	0.5 J
Vinyl Chloride	0.26 U	0.09 U	0.26 U	0.13	0.26 U	0.34	0.26 U	0.3	0.09 U
m&p-Xylene	1.9	8.9	8.6	8.9	0.87 U	7.9	0.87 U	9.9	0.57
o-Xylene	0.75	2.9	2.5	2.8	0.43 U	3	0.43 U	3.3	0.18

Samples Collected on 2/8/12

All data is in micrograms per cubic meter (ug/m³)

U: Not detected

J: Estimated



Appendix A

Laboratory Data Package
(on CD)

Appendix B

Data Validation Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

Facsimile 518-251-4428

March 31, 2012

Mark Flusche
ARCADIS of NY, Inc.
855 Route 146 Suite 210
Clifton Park, NY 12065

RE: Purex-Mitchel Field Data Usability Summary Report (DUSR)
Air Samples
con-test Analytical Laboratory SDG No. 12B0323

Dear Mr. Flusche:

Review has been completed for the data package generated by con-test that pertains to samples collected 02/08/12 at the Purex-Mitchel Field site. Ten sub-slab and three indoor air 6 L summa canister samples and a field duplicate of each matrix were analyzed for volatile analytes using USEPA method TO-15.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Organic Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate Recoveries
- * Blind Field Duplicate Correlations
- * Internal Standard Recoveries
- * Method and Canister Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with project requirements.

In summary, sample processing was conducted in compliance with the modified analytical protocol requirements. All sample results are usable either as reported, or with minor qualification.

Copies of the sample identifications and laboratory case narrative are attached to this text, and should be reviewed in conjunction with this report. Also attached are the sample results forms edited to reflect the validation qualifiers noted within this report.

Volatile Analyses by EPA TO-15

The following results have been qualified as tentative in identification and estimated in value due to interferences in the mass spectra:

- 1,2-dichloroethane in PMF-UPS-IA01 and PMF-UPS-IA03
- carbon tetrachloride in PMF-MSBA-IA-05
- 4-methyl-2-pentanone in PMT-MSBA-IA-08

Holding times and instrument tunes meet requirements. Surrogate and internal standard recoveries are acceptable.

Laboratory duplicate evaluations of PMF-CONC-IA-10 and PMF-UPS-SS01 show good correlations. .

The field duplicate evaluations of PMF-MSBA-IA-11 and PMF-MSBA-SS-11 show acceptable correlations.

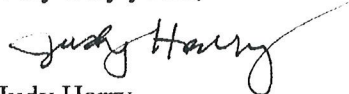
The result for ethanol in PMF-MSBA-IA-05 is qualified as estimated, with a possible high bias, due to elevated recovery (143%) in the associated LCS.

Initial and continuing calibration standard responses were acceptable, with all response factors (RRFs) above 0.05, linearity within the 30%RSD limit, and continuing responses not above 30%D, with the exceptions of those for ethanol and 2,2,4-trimethylpentane (32%D to 46%D) in the continuing calibration standards associated with all samples, and for 4-methyl-2-pentanone (32%D) in the standard associated with the sub-slab samples. Results for those compounds in the indicated associated samples are qualified as estimated.

The result for methylene chloride in PMT-MSBA-IA-06 is considered external contamination and edited to reflect non-detection at the originally reported concentration due to presence of that compound in the canister prior to delivery for sample collection. Method blanks show no contamination. Method blank QC summary Forms 4 should show analysis dates

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ** The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and CASE NARRATIVE**

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Mark Flusche

REPORT DATE: 2/16/2012

PURCHASE ORDER NUMBER: 00726785.0000

PROJECT NUMBER: 00726785.0000

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0323

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Purex-Mitchel Field- NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PMF-UPS-SS01	12B0323-01	Sub Slab		EPA TO-15	
PMF-UPS-IA01	12B0323-02	Indoor air		EPA TO-15	
PMF-UPS-SS02	12B0323-03	Sub Slab		EPA TO-15	
PMF-UPS-IA02	12B0323-04	Indoor air		EPA TO-15	
PMF-UPS-SS03	12B0323-05	Sub Slab		EPA TO-15	
PMF-UPS-IA03	12B0323-06	Indoor air		EPA TO-15	
PMF-UPS-SS04	12B0323-07	Sub Slab		EPA TO-15	
PMF-UPS-IA04	12B0323-08	Indoor air		EPA TO-15	
PMF-UPS-OA01	12B0323-09	Ambient Air		EPA TO-15	
PMF-MSBA-SS-05	12B0323-10	Sub Slab		EPA TO-15	
PMF-MSBA-IA-05	12B0323-11	Indoor air		EPA TO-15	
PMF-MSBA-SS-06	12B0323-12	Sub Slab		EPA TO-15	
PMF-MSBA-IA-06	12B0323-13	Indoor air		EPA TO-15	
PMF-MSBA-SS-07	12B0323-14	Sub Slab		EPA TO-15	
PMF-MSBA-IA-07	12B0323-15	Indoor air		EPA TO-15	
PMF-MSBA-SS-08	12B0323-16	Sub Slab		EPA TO-15	
PMF-MSBA-IA-08	12B0323-17	Indoor air		EPA TO-15	
PMF-MSBA-OA-02	12B0323-18	Ambient Air		EPA TO-15	
PMF-CONC-SS-09	12B0323-19	Sub Slab		EPA TO-15	
PMF-CONC-IA-09	12B0323-20	Indoor air		EPA TO-15	
PMF-CONC-SS-10	12B0323-21	Sub Slab		EPA TO-15	
PMF-CONC-IA-10	12B0323-22	Indoor air		EPA TO-15	
PMF-MSBA-SS-11	12B0323-23	Sub Slab		EPA TO-15	
PMF-MSBA-IA-11	12B0323-24	Indoor air		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.

Analyte & Samples(s) Qualified:**Chloromethane**

B046247-DUP1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2,2,4-Trimethylpentane, 4-Methyl-2-pentanone (MIBK)**

12B0323-01[PMF-UPS-SS01], 12B0323-02[PMF-UPS-IA01], 12B0323-03[PMF-UPS-SS02], 12B0323-04[PMF-UPS-IA02], 12B0323-05[PMF-UPS-SS03], 12B0323-06[PMF-UPS-IA03], 12B0323-07[PMF-UPS-SS04], 12B0323-08[PMF-UPS-IA04], 12B0323-09[PMF-UPS-OA01], 12B0323-10[PMF-MSBA-SS-05], 12B0323-11[PMF-MSBA-IA-05], 12B0323-12[PMF-MSBA-SS-06], 12B0323-13[PMF-MSBA-IA-06], 12B0323-14[PMF-MSBA-SS-07], 12B0323-15[PMF-MSBA-IA-07], 12B0323-16[PMF-MSBA-SS-08], 12B0323-17[PMF-MSBA-IA-08], 12B0323-18[PMF-MSBA-OA-02], 12B0323-19[PMF-CONC-SS-09], 12B0323-20[PMF-CONC-IA-09], 12B0323-21[PMF-CONC-SS-10], 12B0323-22[PMF-CONC-IA-10], 12B0323-23[PMF-MSBA-SS-11], 12B0323-24[PMF-MSBA-IA-11], B046173-BLK1, B046173-BS1, B046173-DUP1, B046247-BLK1, B046247-BS1, B046247-DUP1, S001777-CCV1, S001781-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

QUALIFIED SAMPLE RESULTS FORMS

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-SS01
 Sample ID: 12B0323-01
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1783
 Canister Size: 6 liter
 Flow Controller ID: 3397
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -
 Receipt Vacuum(in Hg): -4.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.18	0.10		0.58	0.32	2	2/13/12 9:27	WSD	
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 9:27	WSD	
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 9:27	WSD	
Bromoform	ND	0.10		ND	1.0	2	2/13/12 9:27	WSD	
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 9:27	WSD	
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 9:27	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 9:27	WSD	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 9:27	WSD	
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 9:27	WSD	
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 9:27	WSD	
Chloroform	ND	0.10		ND	0.49	2	2/13/12 9:27	WSD	
Chloromethane	0.17	0.10		0.36	0.21	2	2/13/12 9:27	WSD	
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 9:27	WSD	
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 9:27	WSD	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 9:27	WSD	
1,2-Dichlorobenzene	0.17	0.10		1.0	0.60	2	2/13/12 9:27	WSD	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 9:27	WSD	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 9:27	WSD	
Dichlorodifluoromethane (Freon 12)	0.57	0.10		2.8	0.49	2	2/13/12 9:27	WSD	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 9:27	WSD	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 9:27	WSD	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 9:27	WSD	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 9:27	WSD	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 9:27	WSD	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 9:27	WSD	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 9:27	WSD	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 9:27	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 9:27	WSD	
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 9:27	WSD	
Ethanol	11	4.0	J	21	7.5	2	2/13/12 9:27	WSD	
Ethylbenzene	0.18	0.10		0.76	0.43	2	2/13/12 9:27	WSD	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 9:27	WSD	
Hexane	ND	4.0		ND	14	2	2/13/12 9:27	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 9:27	WSD	
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 9:27	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05 UJ	ND	0.41	2	2/13/12 9:27	WSD	
Styrene	0.12	0.10		0.53	0.43	2	2/13/12 9:27	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-SS01
 Sample ID: 12B0323-01
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1783
 Canister Size: 6 liter
 Flow Controller ID: 3397
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -4.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 9:27	WSD	
Tetrachloroethylene	3.7	0.10		25	0.68	2	2/13/12 9:27	WSD	
Toluene	0.67	0.10		2.5	0.38	2	2/13/12 9:27	WSD	
1,2,4-Trichlorobenzene	0.21	0.20		1.6	1.5	2	2/13/12 9:27	WSD	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 9:27	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 9:27	WSD	
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 9:27	WSD	
Trichlorofluoromethane (Freon 11)	0.41	0.10		2.3	0.56	2	2/13/12 9:27	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.10	0.10		0.77	0.77	2	2/13/12 9:27	WSD	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 9:27	WSD	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 9:27	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05 UJ	ND	1.3	2	2/13/12 9:27	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 9:27	WSD	
m&p-Xylene	0.44	0.20		1.9	0.87	2	2/13/12 9:27	WSD	
o-Xylene	0.17	0.10		0.75	0.43	2	2/13/12 9:27	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/13/12 9:27
4-Bromofluorobenzene (2)	122	70-130	2/13/12 9:27



Data Package



con-test[®]
ANALYTICAL LABORATORY



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WORK ORDER# 12B0323
CLIENT: Arcadis - Clifton Park - NY

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Completed by

Tod Kopyscinski/Air Lab Manager 03/22/2012

Signature

(Print Name / Title)

Date

February 16, 2012

Mark Flusche
Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Purex-Mitchel Field- NY
Client Job Number:
Project Number: 00726785.0000
Laboratory Work Order Number: 12B0323

Enclosed are results of analyses for samples received by the laboratory on February 9, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Charles W. Balicki". The signature is written in a cursive, flowing style.

Charles W. Balicki
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Mark Flusche

REPORT DATE: 2/16/2012

PURCHASE ORDER NUMBER: 00726785.0000

PROJECT NUMBER: 00726785.0000

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0323

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Purex-Mitchel Field- NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PMF-UPS-SS01	12B0323-01	Sub Slab		EPA TO-15	
PMF-UPS-IA01	12B0323-02	Indoor air		EPA TO-15	
PMF-UPS-SS02	12B0323-03	Sub Slab		EPA TO-15	
PMF-UPS-IA02	12B0323-04	Indoor air		EPA TO-15	
PMF-UPS-SS03	12B0323-05	Sub Slab		EPA TO-15	
PMF-UPS-IA03	12B0323-06	Indoor air		EPA TO-15	
PMF-UPS-SS04	12B0323-07	Sub Slab		EPA TO-15	
PMF-UPS-IA04	12B0323-08	Indoor air		EPA TO-15	
PMF-UPS-OA01	12B0323-09	Ambient Air		EPA TO-15	
PMF-MSBA-SS-05	12B0323-10	Sub Slab		EPA TO-15	
PMF-MSBA-IA-05	12B0323-11	Indoor air		EPA TO-15	
PMF-MSBA-SS-06	12B0323-12	Sub Slab		EPA TO-15	
PMF-MSBA-IA-06	12B0323-13	Indoor air		EPA TO-15	
PMF-MSBA-SS-07	12B0323-14	Sub Slab		EPA TO-15	
PMF-MSBA-IA-07	12B0323-15	Indoor air		EPA TO-15	
PMF-MSBA-SS-08	12B0323-16	Sub Slab		EPA TO-15	
PMF-MSBA-IA-08	12B0323-17	Indoor air		EPA TO-15	
PMF-MSBA-OA-02	12B0323-18	Ambient Air		EPA TO-15	
PMF-CONC-SS-09	12B0323-19	Sub Slab		EPA TO-15	
PMF-CONC-IA-09	12B0323-20	Indoor air		EPA TO-15	
PMF-CONC-SS-10	12B0323-21	Sub Slab		EPA TO-15	
PMF-CONC-IA-10	12B0323-22	Indoor air		EPA TO-15	
PMF-MSBA-SS-11	12B0323-23	Sub Slab		EPA TO-15	
PMF-MSBA-IA-11	12B0323-24	Indoor air		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.

Analyte & Samples(s) Qualified:**Chloromethane**

B046247-DUP1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2,2,4-Trimethylpentane, 4-Methyl-2-pentanone (MIBK)**

12B0323-01[PMF-UPS-SS01], 12B0323-02[PMF-UPS-IA01], 12B0323-03[PMF-UPS-SS02], 12B0323-04[PMF-UPS-IA02], 12B0323-05[PMF-UPS-SS03], 12B0323-06[PMF-UPS-IA03], 12B0323-07[PMF-UPS-SS04], 12B0323-08[PMF-UPS-IA04], 12B0323-09[PMF-UPS-OA01], 12B0323-10[PMF-MSBA-SS-05], 12B0323-11[PMF-MSBA-IA-05], 12B0323-12[PMF-MSBA-SS-06], 12B0323-13[PMF-MSBA-IA-06], 12B0323-14[PMF-MSBA-SS-07], 12B0323-15[PMF-MSBA-IA-07], 12B0323-16[PMF-MSBA-SS-08], 12B0323-17[PMF-MSBA-IA-08], 12B0323-18[PMF-MSBA-OA-02], 12B0323-19[PMF-CONC-SS-09], 12B0323-20[PMF-CONC-IA-09], 12B0323-21[PMF-CONC-SS-10], 12B0323-22[PMF-CONC-IA-10], 12B0323-23[PMF-MSBA-SS-11], 12B0323-24[PMF-MSBA-IA-11], B046173-BLK1, B046173-BS1, B046173-DUP1, B046247-BLK1, B046247-BS1, B046247-DUP1, S001777-CCV1, S001781-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS01
Sample ID: 12B0323-01
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1783
 Canister Size: 6 liter
 Flow Controller ID: 3397
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -4.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Benzene	0.18	0.10		0.58	0.32	2	2/13/12	9:27	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12	9:27	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12	9:27	WSD
Bromoform	ND	0.10		ND	1.0	2	2/13/12	9:27	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/13/12	9:27	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12	9:27	WSD
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12	9:27	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12	9:27	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12	9:27	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/13/12	9:27	WSD
Chloroform	ND	0.10		ND	0.49	2	2/13/12	9:27	WSD
Chloromethane	0.17	0.10		0.36	0.21	2	2/13/12	9:27	WSD
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12	9:27	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12	9:27	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12	9:27	WSD
1,2-Dichlorobenzene	0.17	0.10		1.0	0.60	2	2/13/12	9:27	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	9:27	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	9:27	WSD
Dichlorodifluoromethane (Freon 12)	0.57	0.10		2.8	0.49	2	2/13/12	9:27	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	9:27	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	9:27	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	9:27	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	9:27	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	9:27	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12	9:27	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	9:27	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	9:27	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12	9:27	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12	9:27	WSD
Ethanol	11	4.0		21	7.5	2	2/13/12	9:27	WSD
Ethylbenzene	0.18	0.10		0.76	0.43	2	2/13/12	9:27	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12	9:27	WSD
Hexane	ND	4.0		ND	14	2	2/13/12	9:27	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12	9:27	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12	9:27	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12	9:27	WSD
Styrene	0.12	0.10		0.53	0.43	2	2/13/12	9:27	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS01
Sample ID: 12B0323-01
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1783
 Canister Size: 6 liter
 Flow Controller ID: 3397
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -4.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
1,1,2,2-Tetrachloroethane	ND	0.10	V-05	ND	0.69	2	2/13/12	9:27	WSD
Tetrachloroethylene	3.7	0.10		25	0.68	2	2/13/12	9:27	WSD
Toluene	0.67	0.10		2.5	0.38	2	2/13/12	9:27	WSD
1,2,4-Trichlorobenzene	0.21	0.20		1.6	1.5	2	2/13/12	9:27	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	9:27	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	9:27	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12	9:27	WSD
Trichlorofluoromethane (Freon 11)	0.41	0.10		2.3	0.56	2	2/13/12	9:27	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.10	0.10		0.77	0.77	2	2/13/12	9:27	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	9:27	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	9:27	WSD
2,2,4-Trimethylpentane	ND	0.27		ND	1.3	2	2/13/12	9:27	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	9:27	WSD
m&p-Xylene	0.44	0.20	1.9	0.87	2	2/13/12	9:27	WSD	
o-Xylene	0.17	0.10	0.75	0.43	2	2/13/12	9:27	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/13/12 9:27
4-Bromofluorobenzene (2)	122	70-130	2/13/12 9:27

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A01
Sample ID: 12B0323-02
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1333
 Canister Size: 6 liter
 Flow Controller ID: 3120
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	1.0	0.035		3.2	0.11	0.702	2/14/12 19:16	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 19:16	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 19:16	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 19:16	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 19:16	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 19:16	WSD	
Carbon Tetrachloride	0.071	0.035		0.45	0.22	0.702	2/14/12 19:16	WSD	
Chlorobenzene	0.042	0.035		0.19	0.16	0.702	2/14/12 19:16	WSD	
Chloroethane	0.10	0.035		0.27	0.093	0.702	2/14/12 19:16	WSD	
Chloroform	0.055	0.035		0.27	0.17	0.702	2/14/12 19:16	WSD	
Chloromethane	1.0	0.035		2.1	0.072	0.702	2/14/12 19:16	WSD	
Cyclohexane	0.38	0.035		1.3	0.12	0.702	2/14/12 19:16	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 19:16	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 19:16	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 19:16	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 19:16	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 19:16	WSD	
Dichlorodifluoromethane (Freon 12)	0.52	0.035		2.6	0.17	0.702	2/14/12 19:16	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD	
1,2-Dichloroethane	0.041	0.035		0.17	0.14	0.702	2/14/12 19:16	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 19:16	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 19:16	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 19:16	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 19:16	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 19:16	WSD	
Ethanol	12	1.4		23	2.6	0.702	2/14/12 19:16	WSD	
Ethylbenzene	0.52	0.035		2.3	0.15	0.702	2/14/12 19:16	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 19:16	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 19:16	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 19:16	WSD	
Methylene Chloride	0.38	0.35		1.3	1.2	0.702	2/14/12 19:16	WSD	
4-Methyl-2-pentanone (MIBK)	0.16	0.035		0.64	0.14	0.702	2/14/12 19:16	WSD	
Styrene	0.19	0.035		0.81	0.15	0.702	2/14/12 19:16	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A01
Sample ID: 12B0323-02
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1333
 Canister Size: 6 liter
 Flow Controller ID: 3120
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 19:16	WSD	
Tetrachloroethylene	0.072	0.035		0.49	0.24	0.702	2/14/12 19:16	WSD	
Toluene	3.7	0.035		14	0.13	0.702	2/14/12 19:16	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 19:16	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 19:16	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 19:16	WSD	
Trichloroethylene	0.094	0.035		0.51	0.19	0.702	2/14/12 19:16	WSD	
Trichlorofluoromethane (Freon 11)	0.33	0.035		1.8	0.20	0.702	2/14/12 19:16	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.035		0.61	0.27	0.702	2/14/12 19:16	WSD	
1,2,4-Trimethylbenzene	0.41	0.035		2.0	0.17	0.702	2/14/12 19:16	WSD	
1,3,5-Trimethylbenzene	0.11	0.035		0.53	0.17	0.702	2/14/12 19:16	WSD	
2,2,4-Trimethylpentane	0.37	0.094	V-05	1.7	0.44	0.702	2/14/12 19:16	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 19:16	WSD	
m&p-Xylene	2.0	0.070		8.9	0.30	0.702	2/14/12 19:16	WSD	
o-Xylene	0.68	0.035		2.9	0.15	0.702	2/14/12 19:16	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/14/12 19:16
4-Bromofluorobenzene (2)	120	70-130	2/14/12 19:16

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS02
Sample ID: 12B0323-03
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:50

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1481
 Canister Size: 6 liter
 Flow Controller ID: 3192
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -8.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.33	0.10		1.0	0.32	2	2/13/12 10:50	WSD	
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 10:50	WSD	
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 10:50	WSD	
Bromoform	ND	0.10		ND	1.0	2	2/13/12 10:50	WSD	
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 10:50	WSD	
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 10:50	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 10:50	WSD	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 10:50	WSD	
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 10:50	WSD	
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 10:50	WSD	
Chloroform	0.81	0.10		4.0	0.49	2	2/13/12 10:50	WSD	
Chloromethane	0.41	0.10		0.84	0.21	2	2/13/12 10:50	WSD	
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 10:50	WSD	
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 10:50	WSD	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 10:50	WSD	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 10:50	WSD	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 10:50	WSD	
1,4-Dichlorobenzene	0.16	0.10		0.95	0.60	2	2/13/12 10:50	WSD	
Dichlorodifluoromethane (Freon 12)	0.59	0.10		2.9	0.49	2	2/13/12 10:50	WSD	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 10:50	WSD	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 10:50	WSD	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 10:50	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 10:50	WSD	
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 10:50	WSD	
Ethanol	ND	4.0		ND	7.5	2	2/13/12 10:50	WSD	
Ethylbenzene	0.44	0.10		1.9	0.43	2	2/13/12 10:50	WSD	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 10:50	WSD	
Hexane	ND	4.0		ND	14	2	2/13/12 10:50	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 10:50	WSD	
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 10:50	WSD	
4-Methyl-2-pentanone (MIBK)	0.19	0.10	V-05	0.76	0.41	2	2/13/12 10:50	WSD	
Styrene	0.15	0.10		0.63	0.43	2	2/13/12 10:50	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS02
Sample ID: 12B0323-03
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:50

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1481
 Canister Size: 6 liter
 Flow Controller ID: 3192
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -8.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	V-05	ND	0.69	2	2/13/12	10:50	WSD
Tetrachloroethylene	0.45	0.10		3.1	0.68	2	2/13/12	10:50	WSD
Toluene	3.2	0.10		12	0.38	2	2/13/12	10:50	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	10:50	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	10:50	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	10:50	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12	10:50	WSD
Trichlorofluoromethane (Freon 11)	1.0	0.10		5.8	0.56	2	2/13/12	10:50	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12	10:50	WSD
1,2,4-Trimethylbenzene	0.21	0.10		1.1	0.49	2	2/13/12	10:50	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	10:50	WSD
2,2,4-Trimethylpentane	ND	0.27		ND	1.3	2	2/13/12	10:50	WSD
Vinyl Chloride	ND	0.10	ND	0.26	2	2/13/12	10:50	WSD	
m&p-Xylene	2.0	0.20	8.6	0.87	2	2/13/12	10:50	WSD	
o-Xylene	0.57	0.10	2.5	0.43	2	2/13/12	10:50	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 10:50
4-Bromofluorobenzene (2)	118	70-130	2/13/12 10:50

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A02
Sample ID: 12B0323-04
Sample Matrix: Indoor air
Sampled: 2/8/2012 14:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1473
Canister Size: 6 liter
Flow Controller ID: 3191
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.88	0.035		2.8	0.11	0.702	2/14/12 20:02	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 20:02	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 20:02	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 20:02	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 20:02	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 20:02	WSD	
Carbon Tetrachloride	0.060	0.035		0.38	0.22	0.702	2/14/12 20:02	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 20:02	WSD	
Chloroform	0.057	0.035		0.28	0.17	0.702	2/14/12 20:02	WSD	
Chloromethane	0.54	0.035		1.1	0.072	0.702	2/14/12 20:02	WSD	
Cyclohexane	0.26	0.035		0.89	0.12	0.702	2/14/12 20:02	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 20:02	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 20:02	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:02	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:02	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:02	WSD	
Dichlorodifluoromethane (Freon 12)	0.52	0.035		2.6	0.17	0.702	2/14/12 20:02	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD	
1,2-Dichloroethane	0.039	0.035		0.16	0.14	0.702	2/14/12 20:02	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 20:02	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 20:02	WSD	
Ethanol	10	1.4		20	2.6	0.702	2/14/12 20:02	WSD	
Ethylbenzene	0.56	0.035		2.5	0.15	0.702	2/14/12 20:02	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 20:02	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 20:02	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 20:02	WSD	
Methylene Chloride	0.56	0.35		2.0	1.2	0.702	2/14/12 20:02	WSD	
4-Methyl-2-pentanone (MIBK)	0.088	0.035		0.36	0.14	0.702	2/14/12 20:02	WSD	
Styrene	0.14	0.035		0.61	0.15	0.702	2/14/12 20:02	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A02
Sample ID: 12B0323-04
Sample Matrix: Indoor air
Sampled: 2/8/2012 14:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1473
Canister Size: 6 liter
Flow Controller ID: 3191
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 20:02	WSD	
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12 20:02	WSD	
Toluene	5.8	0.035		22	0.13	0.702	2/14/12 20:02	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 20:02	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 20:02	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 20:02	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 20:02	WSD	
Trichlorofluoromethane (Freon 11)	0.30	0.035		1.7	0.20	0.702	2/14/12 20:02	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.035		0.59	0.27	0.702	2/14/12 20:02	WSD	
1,2,4-Trimethylbenzene	0.31	0.035		1.5	0.17	0.702	2/14/12 20:02	WSD	
1,3,5-Trimethylbenzene	0.078	0.035		0.38	0.17	0.702	2/14/12 20:02	WSD	
2,2,4-Trimethylpentane	0.29	0.094	V-05	1.4	0.44	0.702	2/14/12 20:02	WSD	
Vinyl Chloride	0.049	0.035		0.13	0.090	0.702	2/14/12 20:02	WSD	
m&p-Xylene	2.1	0.070		8.9	0.30	0.702	2/14/12 20:02	WSD	
o-Xylene	0.64	0.035		2.8	0.15	0.702	2/14/12 20:02	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/14/12 20:02
4-Bromofluorobenzene (2)	122	70-130	2/14/12 20:02

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS03
Sample ID: 12B0323-05
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:09

Sample Description/Location:
Sub Description/Location:
Canister ID: 1334
Canister Size: 6 liter
Flow Controller ID: 3176
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	ND	0.10		ND	0.32	2	2/13/12 11:31	WSD		
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 11:31	WSD		
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 11:31	WSD		
Bromoform	ND	0.10		ND	1.0	2	2/13/12 11:31	WSD		
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 11:31	WSD		
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 11:31	WSD		
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 11:31	WSD		
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 11:31	WSD		
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 11:31	WSD		
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 11:31	WSD		
Chloroform	0.27	0.10		1.3	0.49	2	2/13/12 11:31	WSD		
Chloromethane	0.13	0.10		0.28	0.21	2	2/13/12 11:31	WSD		
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 11:31	WSD		
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 11:31	WSD		
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 11:31	WSD		
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 11:31	WSD		
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 11:31	WSD		
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 11:31	WSD		
Dichlorodifluoromethane (Freon 12)	0.58	0.10		2.9	0.49	2	2/13/12 11:31	WSD		
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 11:31	WSD		
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 11:31	WSD		
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 11:31	WSD		
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 11:31	WSD		
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 11:31	WSD		
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 11:31	WSD		
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 11:31	WSD		
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 11:31	WSD		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 11:31	WSD		
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 11:31	WSD		
Ethanol	12	4.0		23	7.5	2	2/13/12 11:31	WSD		
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12 11:31	WSD		
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 11:31	WSD		
Hexane	ND	4.0		ND	14	2	2/13/12 11:31	WSD		
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 11:31	WSD		
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 11:31	WSD		
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12 11:31	WSD		
Styrene	ND	0.10		ND	0.43	2	2/13/12 11:31	WSD		

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS03
Sample ID: 12B0323-05
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:09

Sample Description/Location:
Sub Description/Location:
Canister ID: 1334
Canister Size: 6 liter
Flow Controller ID: 3176
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 11:31	WSD	
Tetrachloroethylene	ND	0.10		ND	0.68	2	2/13/12 11:31	WSD	
Toluene	ND	0.10		ND	0.38	2	2/13/12 11:31	WSD	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 11:31	WSD	
1,1,1-Trichloroethane	0.46	0.10		2.5	0.55	2	2/13/12 11:31	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 11:31	WSD	
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 11:31	WSD	
Trichlorofluoromethane (Freon 11)	0.96	0.10		5.4	0.56	2	2/13/12 11:31	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 11:31	WSD	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 11:31	WSD	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 11:31	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05	ND	1.3	2	2/13/12 11:31	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 11:31	WSD	
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 11:31	WSD	
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 11:31	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 11:31
4-Bromofluorobenzene (2)	118	70-130	2/13/12 11:31

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A03
Sample ID: 12B0323-06
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:09

Sample Description/Location:
Sub Description/Location:
Canister ID: 1640
Canister Size: 6 liter
Flow Controller ID: 3238
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	1.6	0.035		5.0	0.11	0.702	2/14/12 20:48	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 20:48	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 20:48	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 20:48	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 20:48	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 20:48	WSD	
Carbon Tetrachloride	0.074	0.035		0.47	0.22	0.702	2/14/12 20:48	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 20:48	WSD	
Chloroform	0.063	0.035		0.31	0.17	0.702	2/14/12 20:48	WSD	
Chloromethane	0.71	0.035		1.5	0.072	0.702	2/14/12 20:48	WSD	
Cyclohexane	0.81	0.035		2.8	0.12	0.702	2/14/12 20:48	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 20:48	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 20:48	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:48	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:48	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:48	WSD	
Dichlorodifluoromethane (Freon 12)	0.51	0.035		2.5	0.17	0.702	2/14/12 20:48	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD	
1,2-Dichloroethane	0.061	0.035		0.25	0.14	0.702	2/14/12 20:48	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 20:48	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 20:48	WSD	
Ethanol	53	1.4		99	2.6	0.702	2/14/12 20:48	WSD	
Ethylbenzene	0.59	0.035		2.6	0.15	0.702	2/14/12 20:48	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 20:48	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 20:48	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 20:48	WSD	
Methylene Chloride	0.36	0.35		1.2	1.2	0.702	2/14/12 20:48	WSD	
4-Methyl-2-pentanone (MIBK)	0.19	0.035		0.78	0.14	0.702	2/14/12 20:48	WSD	
Styrene	0.11	0.035		0.48	0.15	0.702	2/14/12 20:48	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A03
Sample ID: 12B0323-06
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 15:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1640
 Canister Size: 6 liter
 Flow Controller ID: 3238
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	V-05	ND	0.24	0.702	2/14/12	20:48	WSD
Tetrachloroethylene	0.036	0.035		0.25	0.24	0.702	2/14/12	20:48	WSD
Toluene	5.8	0.035		22	0.13	0.702	2/14/12	20:48	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12	20:48	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	20:48	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	20:48	WSD
Trichloroethylene	0.052	0.035		0.28	0.19	0.702	2/14/12	20:48	WSD
Trichlorofluoromethane (Freon 11)	0.32	0.035		1.8	0.20	0.702	2/14/12	20:48	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.078	0.035		0.60	0.27	0.702	2/14/12	20:48	WSD
1,2,4-Trimethylbenzene	0.42	0.035		2.0	0.17	0.702	2/14/12	20:48	WSD
1,3,5-Trimethylbenzene	0.18	0.035		0.86	0.17	0.702	2/14/12	20:48	WSD
2,2,4-Trimethylpentane	0.52	0.094		2.4	0.44	0.702	2/14/12	20:48	WSD
Vinyl Chloride	0.13	0.035		0.34	0.090	0.702	2/14/12	20:48	WSD
m&p-Xylene	1.8	0.070	7.9	0.30	0.702	2/14/12	20:48	WSD	
o-Xylene	0.69	0.035	3.0	0.15	0.702	2/14/12	20:48	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	2/14/12 20:48
4-Bromofluorobenzene (2)	121	70-130	2/14/12 20:48

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS04
Sample ID: 12B0323-07
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:11

Sample Description/Location:
Sub Description/Location:
Canister ID: 1818
Canister Size: 6 liter
Flow Controller ID: 3038
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	ND	0.10		ND	0.32	2	2/13/12	12:12	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12	12:12	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12	12:12	WSD
Bromoform	ND	0.10		ND	1.0	2	2/13/12	12:12	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/13/12	12:12	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12	12:12	WSD
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12	12:12	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12	12:12	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12	12:12	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/13/12	12:12	WSD
Chloroform	ND	0.10		ND	0.49	2	2/13/12	12:12	WSD
Chloromethane	ND	0.10		ND	0.21	2	2/13/12	12:12	WSD
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12	12:12	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12	12:12	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12	12:12	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	12:12	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	12:12	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	12:12	WSD
Dichlorodifluoromethane (Freon 12)	0.59	0.10		2.9	0.49	2	2/13/12	12:12	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	12:12	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	12:12	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	12:12	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	12:12	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	12:12	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12	12:12	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	12:12	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	12:12	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12	12:12	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12	12:12	WSD
Ethanol	ND	4.0		ND	7.5	2	2/13/12	12:12	WSD
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12	12:12	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12	12:12	WSD
Hexane	ND	4.0		ND	14	2	2/13/12	12:12	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12	12:12	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12	12:12	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12	12:12	WSD
Styrene	ND	0.10		ND	0.43	2	2/13/12	12:12	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS04
Sample ID: 12B0323-07
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:11

Sample Description/Location:
Sub Description/Location:
Canister ID: 1818
Canister Size: 6 liter
Flow Controller ID: 3038
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12	12:12	WSD
Tetrachloroethylene	0.83	0.10		5.6	0.68	2	2/13/12	12:12	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12	12:12	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	12:12	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	12:12	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	12:12	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12	12:12	WSD
Trichlorofluoromethane (Freon 11)	0.74	0.10		4.1	0.56	2	2/13/12	12:12	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12	12:12	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	12:12	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	12:12	WSD
2,2,4-Trimethylpentane	ND	0.27	V-05	ND	1.3	2	2/13/12	12:12	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	12:12	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12	12:12	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12	12:12	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	2/13/12 12:12
4-Bromofluorobenzene (2)	118	70-130	2/13/12 12:12

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A04
Sample ID: 12B0323-08
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:11

Sample Description/Location:
Sub Description/Location:
Canister ID: 1263
Canister Size: 6 liter
Flow Controller ID: 3264
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	1.9	0.035		6.1	0.11	0.702	2/14/12 21:33	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 21:33	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 21:33	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 21:33	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 21:33	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 21:33	WSD	
Carbon Tetrachloride	0.072	0.035		0.45	0.22	0.702	2/14/12 21:33	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 21:33	WSD	
Chloroform	0.055	0.035		0.27	0.17	0.702	2/14/12 21:33	WSD	
Chloromethane	0.64	0.035		1.3	0.072	0.702	2/14/12 21:33	WSD	
Cyclohexane	0.28	0.035		0.96	0.12	0.702	2/14/12 21:33	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 21:33	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 21:33	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 21:33	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 21:33	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 21:33	WSD	
Dichlorodifluoromethane (Freon 12)	0.53	0.035		2.6	0.17	0.702	2/14/12 21:33	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD	
1,2-Dichloroethane	0.049	0.035		0.20	0.14	0.702	2/14/12 21:33	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 21:33	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 21:33	WSD	
Ethanol	13	1.4		24	2.6	0.702	2/14/12 21:33	WSD	
Ethylbenzene	0.66	0.035		2.9	0.15	0.702	2/14/12 21:33	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 21:33	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 21:33	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 21:33	WSD	
Methylene Chloride	0.95	0.35		3.3	1.2	0.702	2/14/12 21:33	WSD	
4-Methyl-2-pentanone (MIBK)	0.095	0.035		0.39	0.14	0.702	2/14/12 21:33	WSD	
Styrene	0.47	0.035		2.0	0.15	0.702	2/14/12 21:33	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-1A04
Sample ID: 12B0323-08
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:11

Sample Description/Location:
Sub Description/Location:
Canister ID: 1263
Canister Size: 6 liter
Flow Controller ID: 3264
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 21:33	WSD	
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12 21:33	WSD	
Toluene	5.9	0.035		22	0.13	0.702	2/14/12 21:33	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 21:33	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 21:33	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 21:33	WSD	
Trichloroethylene	0.046	0.035		0.25	0.19	0.702	2/14/12 21:33	WSD	
Trichlorofluoromethane (Freon 11)	0.30	0.035		1.7	0.20	0.702	2/14/12 21:33	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.035		0.61	0.27	0.702	2/14/12 21:33	WSD	
1,2,4-Trimethylbenzene	0.41	0.035		2.0	0.17	0.702	2/14/12 21:33	WSD	
1,3,5-Trimethylbenzene	0.11	0.035		0.55	0.17	0.702	2/14/12 21:33	WSD	
2,2,4-Trimethylpentane	0.41	0.094	V-05	1.9	0.44	0.702	2/14/12 21:33	WSD	
Vinyl Chloride	0.12	0.035		0.30	0.090	0.702	2/14/12 21:33	WSD	
m&p-Xylene	2.3	0.070		9.9	0.30	0.702	2/14/12 21:33	WSD	
o-Xylene	0.76	0.035		3.3	0.15	0.702	2/14/12 21:33	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/14/12 21:33
4-Bromofluorobenzene (2)	123	70-130	2/14/12 21:33

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-OA01
Sample ID: 12B0323-09
 Sample Matrix: Ambient Air
 Sampled: 2/8/2012 15:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1665
 Canister Size: 6 liter
 Flow Controller ID: 3267
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -5.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.16	0.035		0.51	0.11	0.702	2/14/12 17:45	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 17:45	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 17:45	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 17:45	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 17:45	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 17:45	WSD	
Carbon Tetrachloride	0.068	0.035		0.43	0.22	0.702	2/14/12 17:45	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 17:45	WSD	
Chloroform	ND	0.035		ND	0.17	0.702	2/14/12 17:45	WSD	
Chloromethane	0.44	0.035		0.91	0.072	0.702	2/14/12 17:45	WSD	
Cyclohexane	ND	0.035		ND	0.12	0.702	2/14/12 17:45	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 17:45	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 17:45	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 17:45	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 17:45	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 17:45	WSD	
Dichlorodifluoromethane (Freon 12)	0.56	0.035		2.8	0.17	0.702	2/14/12 17:45	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 17:45	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 17:45	WSD	
Ethanol	2.9	1.4		5.4	2.6	0.702	2/14/12 17:45	WSD	
Ethylbenzene	0.037	0.035		0.16	0.15	0.702	2/14/12 17:45	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 17:45	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 17:45	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 17:45	WSD	
Methylene Chloride	ND	0.35		ND	1.2	0.702	2/14/12 17:45	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD	
Styrene	ND	0.035		ND	0.15	0.702	2/14/12 17:45	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-OA01
Sample ID: 12B0323-09
Sample Matrix: Ambient Air
Sampled: 2/8/2012 15:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1665
Canister Size: 6 liter
Flow Controller ID: 3267
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -5.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	V-05	ND	0.24	0.702	2/14/12 17:45	WSD	
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12 17:45	WSD	
Toluene	0.34	0.035		1.3	0.13	0.702	2/14/12 17:45	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 17:45	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 17:45	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 17:45	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 17:45	WSD	
Trichlorofluoromethane (Freon 11)	0.25	0.035		1.4	0.20	0.702	2/14/12 17:45	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.035		0.63	0.27	0.702	2/14/12 17:45	WSD	
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 17:45	WSD	
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 17:45	WSD	
2,2,4-Trimethylpentane	0.11	0.094		0.50	0.44	0.702	2/14/12 17:45	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 17:45	WSD	
m&p-Xylene	0.13	0.070		0.57	0.30	0.702	2/14/12 17:45	WSD	
o-Xylene	0.042	0.035		0.18	0.15	0.702	2/14/12 17:45	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	2/14/12 17:45
4-Bromofluorobenzene (2)	122	70-130	2/14/12 17:45

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-05
Sample ID: 12B0323-10
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 16:41

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1820
 Canister Size: 6 liter
 Flow Controller ID: 3246
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	ND	0.10			ND	0.32	2	2/13/12 16:59	WSD	
Benzyl chloride	ND	0.10			ND	0.52	2	2/13/12 16:59	WSD	
Bromodichloromethane	ND	0.10			ND	0.67	2	2/13/12 16:59	WSD	
Bromoform	ND	0.10			ND	1.0	2	2/13/12 16:59	WSD	
Bromomethane	ND	0.10			ND	0.39	2	2/13/12 16:59	WSD	
2-Butanone (MEK)	ND	4.0			ND	12	2	2/13/12 16:59	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41			ND	1.2	2	2/13/12 16:59	WSD	
Carbon Tetrachloride	ND	0.10			ND	0.63	2	2/13/12 16:59	WSD	
Chlorobenzene	ND	0.10			ND	0.46	2	2/13/12 16:59	WSD	
Chloroethane	ND	0.10			ND	0.26	2	2/13/12 16:59	WSD	
Chloroform	ND	0.10			ND	0.49	2	2/13/12 16:59	WSD	
Chloromethane	ND	0.10			ND	0.21	2	2/13/12 16:59	WSD	
Cyclohexane	ND	0.10			ND	0.34	2	2/13/12 16:59	WSD	
Dibromochloromethane	ND	0.10			ND	0.85	2	2/13/12 16:59	WSD	
1,2-Dibromoethane (EDB)	ND	0.10			ND	0.77	2	2/13/12 16:59	WSD	
1,2-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 16:59	WSD	
1,3-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 16:59	WSD	
1,4-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 16:59	WSD	
Dichlorodifluoromethane (Freon 12)	75	0.10			370	0.49	2	2/13/12 16:59	WSD	
1,1-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD	
1,2-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD	
1,1-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD	
cis-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD	
trans-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD	
1,2-Dichloropropane	ND	0.10			ND	0.46	2	2/13/12 16:59	WSD	
cis-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 16:59	WSD	
trans-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 16:59	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10			ND	0.70	2	2/13/12 16:59	WSD	
1,4-Dioxane	ND	0.10			ND	0.36	2	2/13/12 16:59	WSD	
Ethanol	91	4.0			170	7.5	2	2/13/12 16:59	WSD	
Ethylbenzene	ND	0.10			ND	0.43	2	2/13/12 16:59	WSD	
Hexachlorobutadiene	ND	0.10			ND	1.1	2	2/13/12 16:59	WSD	
Hexane	ND	4.0			ND	14	2	2/13/12 16:59	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10			ND	0.36	2	2/13/12 16:59	WSD	
Methylene Chloride	ND	1.0			ND	3.5	2	2/13/12 16:59	WSD	
4-Methyl-2-pentanone (MIBK)	0.11	0.10	V-05		0.45	0.41	2	2/13/12 16:59	WSD	
Styrene	ND	0.10			ND	0.43	2	2/13/12 16:59	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-05
Sample ID: 12B0323-10
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 16:41

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1820
 Canister Size: 6 liter
 Flow Controller ID: 3246
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	V-05	ND	0.69	2	2/13/12	16:59	WSD
Tetrachloroethylene	0.39	0.10		2.7	0.68	2	2/13/12	16:59	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12	16:59	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	16:59	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	16:59	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	16:59	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12	16:59	WSD
Trichlorofluoromethane (Freon 11)	1.0	0.10		5.8	0.56	2	2/13/12	16:59	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12	16:59	WSD
1,2,4-Trimethylbenzene	3.3	0.10		16	0.49	2	2/13/12	16:59	WSD
1,3,5-Trimethylbenzene	0.73	0.10		3.6	0.49	2	2/13/12	16:59	WSD
2,2,4-Trimethylpentane	ND	0.27		ND	1.3	2	2/13/12	16:59	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	16:59	WSD
m&p-Xylene	0.31	0.20	1.3	0.87	2	2/13/12	16:59	WSD	
o-Xylene	0.14	0.10	0.60	0.43	2	2/13/12	16:59	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 16:59
4-Bromofluorobenzene (2)	121	70-130	2/13/12 16:59

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-05
Sample ID: 12B0323-11
Sample Matrix: Indoor air
Sampled: 2/8/2012 16:41

Sample Description/Location:
Sub Description/Location:
Canister ID: 1073
Canister Size: 6 liter
Flow Controller ID: 3350
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.18	0.035		0.57	0.11	0.702	2/14/12 22:19	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 22:19	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 22:19	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 22:19	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 22:19	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 22:19	WSD	
Carbon Tetrachloride	0.061	0.035		0.38	0.22	0.702	2/14/12 22:19	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 22:19	WSD	
Chloroform	ND	0.035		ND	0.17	0.702	2/14/12 22:19	WSD	
Chloromethane	0.58	0.035		1.2	0.072	0.702	2/14/12 22:19	WSD	
Cyclohexane	0.093	0.035		0.32	0.12	0.702	2/14/12 22:19	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 22:19	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 22:19	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 22:19	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 22:19	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 22:19	WSD	
Dichlorodifluoromethane (Freon 12)	0.61	0.035		3.0	0.17	0.702	2/14/12 22:19	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 22:19	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 22:19	WSD	
Ethanol	1000	40		1900	75	20	2/15/12 16:31	WSD	
Ethylbenzene	4.1	0.035		18	0.15	0.702	2/14/12 22:19	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 22:19	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 22:19	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 22:19	WSD	
Methylene Chloride	0.57	0.35		2.0	1.2	0.702	2/14/12 22:19	WSD	
4-Methyl-2-pentanone (MIBK)	3.5	0.035		14	0.14	0.702	2/14/12 22:19	WSD	
Styrene	0.036	0.035		0.15	0.15	0.702	2/14/12 22:19	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-05
Sample ID: 12B0323-11
Sample Matrix: Indoor air
Sampled: 2/8/2012 16:41

Sample Description/Location:
Sub Description/Location:
Canister ID: 1073
Canister Size: 6 liter
Flow Controller ID: 3350
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	V-05	ND	0.24	0.702	2/14/12 22:19	WSD	
Tetrachloroethylene	0.055	0.035		0.38	0.24	0.702	2/14/12 22:19	WSD	
Toluene	0.58	0.035		2.2	0.13	0.702	2/14/12 22:19	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 22:19	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 22:19	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 22:19	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 22:19	WSD	
Trichlorofluoromethane (Freon 11)	0.26	0.035		1.5	0.20	0.702	2/14/12 22:19	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.035		0.62	0.27	0.702	2/14/12 22:19	WSD	
1,2,4-Trimethylbenzene	0.098	0.035		0.48	0.17	0.702	2/14/12 22:19	WSD	
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 22:19	WSD	
2,2,4-Trimethylpentane	ND	0.094		ND	0.44	0.702	2/14/12 22:19	WSD	
Vinyl Chloride	ND	0.035	ND	0.090	0.702	2/14/12 22:19	WSD		
m&p-Xylene	16	0.070	71	0.30	0.702	2/14/12 22:19	WSD		
o-Xylene	5.9	0.035	25	0.15	0.702	2/14/12 22:19	WSD		

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	109	70-130	2/15/12 16:31
4-Bromofluorobenzene (1)	105	70-130	2/14/12 22:19
4-Bromofluorobenzene (2)	124	70-130	2/14/12 22:19

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-06
Sample ID: 12B0323-12
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1606
Canister Size: 6 liter
Flow Controller ID: 3071
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	ND	0.10		ND	0.32	2	2/13/12 12:53	WSD		
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 12:53	WSD		
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 12:53	WSD		
Bromoform	ND	0.10		ND	1.0	2	2/13/12 12:53	WSD		
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 12:53	WSD		
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 12:53	WSD		
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 12:53	WSD		
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 12:53	WSD		
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 12:53	WSD		
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 12:53	WSD		
Chloroform	ND	0.10		ND	0.49	2	2/13/12 12:53	WSD		
Chloromethane	ND	0.10		ND	0.21	2	2/13/12 12:53	WSD		
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 12:53	WSD		
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 12:53	WSD		
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 12:53	WSD		
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 12:53	WSD		
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 12:53	WSD		
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 12:53	WSD		
Dichlorodifluoromethane (Freon 12)	8.2	0.10		41	0.49	2	2/13/12 12:53	WSD		
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 12:53	WSD		
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 12:53	WSD		
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 12:53	WSD		
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 12:53	WSD		
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 12:53	WSD		
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 12:53	WSD		
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 12:53	WSD		
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 12:53	WSD		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 12:53	WSD		
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 12:53	WSD		
Ethanol	ND	4.0		ND	7.5	2	2/13/12 12:53	WSD		
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12 12:53	WSD		
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 12:53	WSD		
Hexane	ND	4.0		ND	14	2	2/13/12 12:53	WSD		
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 12:53	WSD		
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 12:53	WSD		
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12 12:53	WSD		
Styrene	ND	0.10		ND	0.43	2	2/13/12 12:53	WSD		

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-06
Sample ID: 12B0323-12
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1606
Canister Size: 6 liter
Flow Controller ID: 3071
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12	12:53	WSD
Tetrachloroethylene	2.1	0.10		14	0.68	2	2/13/12	12:53	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12	12:53	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	12:53	WSD
1,1,1-Trichloroethane	0.16	0.10		0.87	0.55	2	2/13/12	12:53	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	12:53	WSD
Trichloroethylene	0.38	0.10		2.0	0.54	2	2/13/12	12:53	WSD
Trichlorofluoromethane (Freon 11)	1.5	0.10		8.2	0.56	2	2/13/12	12:53	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12	12:53	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	12:53	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	12:53	WSD
2,2,4-Trimethylpentane	ND	0.27	V-05	ND	1.3	2	2/13/12	12:53	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	12:53	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12	12:53	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12	12:53	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/13/12 12:53
4-Bromofluorobenzene (2)	120	70-130	2/13/12 12:53

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-06
Sample ID: 12B0323-13
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1657
Canister Size: 6 liter
Flow Controller ID: 3102
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.21	0.035		0.68	0.11	0.702	2/14/12 23:04	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 23:04	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 23:04	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 23:04	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 23:04	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 23:04	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 23:04	WSD	
Carbon Tetrachloride	0.069	0.035		0.44	0.22	0.702	2/14/12 23:04	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 23:04	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 23:04	WSD	
Chloroform	0.12	0.035		0.57	0.17	0.702	2/14/12 23:04	WSD	
Chloromethane	0.46	0.035		0.95	0.072	0.702	2/14/12 23:04	WSD	
Cyclohexane	ND	0.035		ND	0.12	0.702	2/14/12 23:04	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 23:04	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 23:04	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:04	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:04	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:04	WSD	
Dichlorodifluoromethane (Freon 12)	0.52	0.035		2.6	0.17	0.702	2/14/12 23:04	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 23:04	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 23:04	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:04	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:04	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:04	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 23:04	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 23:04	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 23:04	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 23:04	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 23:04	WSD	
Ethanol	5.7	1.4		11	2.6	0.702	2/14/12 23:04	WSD	
Ethylbenzene	0.087	0.035		0.38	0.15	0.702	2/14/12 23:04	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 23:04	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 23:04	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 23:04	WSD	
Methylene Chloride	0.80	0.35		2.8	1.2	0.702	2/14/12 23:04	WSD	
4-Methyl-2-pentanone (MIBK)	0.12	0.035		0.50	0.14	0.702	2/14/12 23:04	WSD	
Styrene	ND	0.035		ND	0.15	0.702	2/14/12 23:04	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-06
Sample ID: 12B0323-13
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1657
Canister Size: 6 liter
Flow Controller ID: 3102
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	V-05	ND	0.24	0.702	2/14/12	23:04	WSD
Tetrachloroethylene	0.085	0.035		0.58	0.24	0.702	2/14/12	23:04	WSD
Toluene	0.76	0.035		2.8	0.13	0.702	2/14/12	23:04	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12	23:04	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	23:04	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	23:04	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12	23:04	WSD
Trichlorofluoromethane (Freon 11)	0.21	0.035		1.2	0.20	0.702	2/14/12	23:04	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.035		0.64	0.27	0.702	2/14/12	23:04	WSD
1,2,4-Trimethylbenzene	0.38	0.035		1.9	0.17	0.702	2/14/12	23:04	WSD
1,3,5-Trimethylbenzene	0.12	0.035		0.61	0.17	0.702	2/14/12	23:04	WSD
2,2,4-Trimethylpentane	ND	0.094		ND	0.44	0.702	2/14/12	23:04	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12	23:04	WSD
m&p-Xylene	0.38	0.070		1.6	0.30	0.702	2/14/12	23:04	WSD
o-Xylene	0.17	0.035		0.73	0.15	0.702	2/14/12	23:04	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	2/14/12 23:04
4-Bromofluorobenzene (2)	129	70-130	2/14/12 23:04

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-07
Sample ID: 12B0323-14
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1824
Canister Size: 6 liter
Flow Controller ID: 3236
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -3.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Benzene	ND	0.10		ND	0.32	2	2/13/12	13:34	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12	13:34	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12	13:34	WSD
Bromoform	ND	0.10		ND	1.0	2	2/13/12	13:34	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/13/12	13:34	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12	13:34	WSD
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12	13:34	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12	13:34	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12	13:34	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/13/12	13:34	WSD
Chloroform	ND	0.10		ND	0.49	2	2/13/12	13:34	WSD
Chloromethane	ND	0.10		ND	0.21	2	2/13/12	13:34	WSD
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12	13:34	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12	13:34	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12	13:34	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	13:34	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	13:34	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	13:34	WSD
Dichlorodifluoromethane (Freon 12)	5.0	0.10		25	0.49	2	2/13/12	13:34	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	13:34	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	13:34	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	13:34	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	13:34	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	13:34	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12	13:34	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	13:34	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	13:34	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12	13:34	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12	13:34	WSD
Ethanol	8.4	4.0		16	7.5	2	2/13/12	13:34	WSD
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12	13:34	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12	13:34	WSD
Hexane	ND	4.0		ND	14	2	2/13/12	13:34	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12	13:34	WSD
Methylene Chloride	7.3	1.0		25	3.5	2	2/13/12	13:34	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12	13:34	WSD
Styrene	ND	0.10		ND	0.43	2	2/13/12	13:34	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-07
Sample ID: 12B0323-14
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1824
Canister Size: 6 liter
Flow Controller ID: 3236
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -3.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	V-05	ND	0.69	2	2/13/12	13:34	WSD
Tetrachloroethylene	0.31	0.10		2.1	0.68	2	2/13/12	13:34	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12	13:34	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	13:34	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	13:34	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	13:34	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12	13:34	WSD
Trichlorofluoromethane (Freon 11)	0.24	0.10		1.4	0.56	2	2/13/12	13:34	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12	13:34	WSD
1,2,4-Trimethylbenzene	0.49	0.10		2.4	0.49	2	2/13/12	13:34	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	13:34	WSD
2,2,4-Trimethylpentane	ND	0.27		ND	1.3	2	2/13/12	13:34	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	13:34	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12	13:34	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12	13:34	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 13:34
4-Bromofluorobenzene (2)	119	70-130	2/13/12 13:34

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-07
Sample ID: 12B0323-15
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1125
Canister Size: 6 liter
Flow Controller ID: 3079
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.23	0.035		0.74	0.11	0.702	2/14/12 23:50	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 23:50	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 23:50	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 23:50	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 23:50	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 23:50	WSD	
Carbon Tetrachloride	0.069	0.035		0.43	0.22	0.702	2/14/12 23:50	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 23:50	WSD	
Chloroform	ND	0.035		ND	0.17	0.702	2/14/12 23:50	WSD	
Chloromethane	0.60	0.035		1.2	0.072	0.702	2/14/12 23:50	WSD	
Cyclohexane	ND	0.035		ND	0.12	0.702	2/14/12 23:50	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 23:50	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 23:50	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:50	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:50	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:50	WSD	
Dichlorodifluoromethane (Freon 12)	0.57	0.035		2.8	0.17	0.702	2/14/12 23:50	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 23:50	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 23:50	WSD	
Ethanol	5.1	1.4		9.6	2.6	0.702	2/14/12 23:50	WSD	
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/14/12 23:50	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 23:50	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 23:50	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 23:50	WSD	
Methylene Chloride	0.38	0.35		1.3	1.2	0.702	2/14/12 23:50	WSD	
4-Methyl-2-pentanone (MIBK)	0.10	0.035		0.43	0.14	0.702	2/14/12 23:50	WSD	
Styrene	ND	0.035		ND	0.15	0.702	2/14/12 23:50	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-07
Sample ID: 12B0323-15
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1125
Canister Size: 6 liter
Flow Controller ID: 3079
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	V-05	ND	0.24	0.702	2/14/12	23:50	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12	23:50	WSD
Toluene	0.34	0.035		1.3	0.13	0.702	2/14/12	23:50	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12	23:50	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	23:50	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	23:50	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12	23:50	WSD
Trichlorofluoromethane (Freon 11)	0.26	0.035		1.4	0.20	0.702	2/14/12	23:50	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.035		0.64	0.27	0.702	2/14/12	23:50	WSD
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12	23:50	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12	23:50	WSD
2,2,4-Trimethylpentane	ND	0.094		ND	0.44	0.702	2/14/12	23:50	WSD
Vinyl Chloride	ND	0.035	ND	0.090	0.702	2/14/12	23:50	WSD	
m&p-Xylene	0.11	0.070	0.48	0.30	0.702	2/14/12	23:50	WSD	
o-Xylene	0.041	0.035	0.18	0.15	0.702	2/14/12	23:50	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	109	70-130	2/14/12 23:50
4-Bromofluorobenzene (2)	129	70-130	2/14/12 23:50

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-08
Sample ID: 12B0323-16
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1198
Canister Size: 6 liter
Flow Controller ID: 3158
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	ND	0.10		ND	0.32	2	2/13/12 14:15	WSD		
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 14:15	WSD		
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 14:15	WSD		
Bromoform	ND	0.10		ND	1.0	2	2/13/12 14:15	WSD		
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 14:15	WSD		
2-Butanone (MEK)	5.0	4.0		15	12	2	2/13/12 14:15	WSD		
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 14:15	WSD		
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 14:15	WSD		
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 14:15	WSD		
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 14:15	WSD		
Chloroform	0.15	0.10		0.71	0.49	2	2/13/12 14:15	WSD		
Chloromethane	0.19	0.10		0.38	0.21	2	2/13/12 14:15	WSD		
Cyclohexane	0.13	0.10		0.45	0.34	2	2/13/12 14:15	WSD		
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 14:15	WSD		
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 14:15	WSD		
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 14:15	WSD		
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 14:15	WSD		
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 14:15	WSD		
Dichlorodifluoromethane (Freon 12)	20	0.10		99	0.49	2	2/13/12 14:15	WSD		
1,1-Dichloroethane	0.14	0.10		0.57	0.40	2	2/13/12 14:15	WSD		
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 14:15	WSD		
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 14:15	WSD		
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 14:15	WSD		
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 14:15	WSD		
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 14:15	WSD		
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 14:15	WSD		
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 14:15	WSD		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 14:15	WSD		
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 14:15	WSD		
Ethanol	ND	4.0		ND	7.5	2	2/13/12 14:15	WSD		
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12 14:15	WSD		
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 14:15	WSD		
Hexane	ND	4.0		ND	14	2	2/13/12 14:15	WSD		
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 14:15	WSD		
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 14:15	WSD		
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12 14:15	WSD		
Styrene	ND	0.10		ND	0.43	2	2/13/12 14:15	WSD		

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-08
Sample ID: 12B0323-16
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1198
Canister Size: 6 liter
Flow Controller ID: 3158
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	V-05	ND	0.69	2	2/13/12	14:15	WSD
Tetrachloroethylene	6.1	0.10		41	0.68	2	2/13/12	14:15	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12	14:15	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	14:15	WSD
1,1,1-Trichloroethane	0.69	0.10		3.8	0.55	2	2/13/12	14:15	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	14:15	WSD
Trichloroethylene	2.1	0.10		12	0.54	2	2/13/12	14:15	WSD
Trichlorofluoromethane (Freon 11)	0.51	0.10		2.9	0.56	2	2/13/12	14:15	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.11	0.10		0.81	0.77	2	2/13/12	14:15	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	14:15	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	14:15	WSD
2,2,4-Trimethylpentane	ND	0.27		ND	1.3	2	2/13/12	14:15	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	14:15	WSD
m&p-Xylene	ND	0.20	ND	0.87	2	2/13/12	14:15	WSD	
o-Xylene	ND	0.10	ND	0.43	2	2/13/12	14:15	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 14:15
4-Bromofluorobenzene (2)	120	70-130	2/13/12 14:15

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-08
Sample ID: 12B0323-17
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1619
Canister Size: 6 liter
Flow Controller ID: 3326
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.23	0.035		0.72	0.11	0.702	2/15/12	0:36	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12	0:36	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12	0:36	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12	0:36	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12	0:36	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12	0:36	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12	0:36	WSD
Carbon Tetrachloride	0.073	0.035		0.46	0.22	0.702	2/15/12	0:36	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12	0:36	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12	0:36	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12	0:36	WSD
Chloromethane	0.73	0.035		1.5	0.072	0.702	2/15/12	0:36	WSD
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12	0:36	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12	0:36	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12	0:36	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	0:36	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	0:36	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	0:36	WSD
Dichlorodifluoromethane (Freon 12)	0.56	0.035		2.8	0.17	0.702	2/15/12	0:36	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	0:36	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	0:36	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	0:36	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	0:36	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	0:36	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12	0:36	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	0:36	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	0:36	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12	0:36	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/15/12	0:36	WSD
Ethanol	5.0	1.4		9.4	2.6	0.702	2/15/12	0:36	WSD
Ethylbenzene	0.047	0.035		0.20	0.15	0.702	2/15/12	0:36	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12	0:36	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/15/12	0:36	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12	0:36	WSD
Methylene Chloride	0.41	0.35		1.4	1.2	0.702	2/15/12	0:36	WSD
4-Methyl-2-pentanone (MIBK)	0.10	0.035		0.42	0.14	0.702	2/15/12	0:36	WSD
Styrene	ND	0.035		ND	0.15	0.702	2/15/12	0:36	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-08
Sample ID: 12B0323-17
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1619
Canister Size: 6 liter
Flow Controller ID: 3326
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	V-05	ND	0.24	0.702	2/15/12	0:36	WSD
Tetrachloroethylene	0.038	0.035		0.26	0.24	0.702	2/15/12	0:36	WSD
Toluene	0.39	0.035		1.5	0.13	0.702	2/15/12	0:36	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12	0:36	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	0:36	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	0:36	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12	0:36	WSD
Trichlorofluoromethane (Freon 11)	0.26	0.035		1.4	0.20	0.702	2/15/12	0:36	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.088	0.035		0.67	0.27	0.702	2/15/12	0:36	WSD
1,2,4-Trimethylbenzene	0.046	0.035		0.22	0.17	0.702	2/15/12	0:36	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	0:36	WSD
2,2,4-Trimethylpentane	ND	0.094		ND	0.44	0.702	2/15/12	0:36	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/15/12	0:36	WSD
m&p-Xylene	0.18	0.070	0.77	0.30	0.702	2/15/12	0:36	WSD	
o-Xylene	0.055	0.035	0.24	0.15	0.702	2/15/12	0:36	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	106	70-130	2/15/12 0:36
4-Bromofluorobenzene (2)	127	70-130	2/15/12 0:36

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-OA-02
Sample ID: 12B0323-18
Sample Matrix: Ambient Air
Sampled: 2/8/2012 17:44

Sample Description/Location:
Sub Description/Location:
Canister ID: 1613
Canister Size: 6 liter
Flow Controller ID: 3069
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -4.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.14	0.035		0.44	0.11	0.702	2/14/12 18:30	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 18:30	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 18:30	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 18:30	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 18:30	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 18:30	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 18:30	WSD	
Carbon Tetrachloride	0.071	0.035		0.45	0.22	0.702	2/14/12 18:30	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 18:30	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 18:30	WSD	
Chloroform	ND	0.035		ND	0.17	0.702	2/14/12 18:30	WSD	
Chloromethane	0.54	0.035		1.1	0.072	0.702	2/14/12 18:30	WSD	
Cyclohexane	ND	0.035		ND	0.12	0.702	2/14/12 18:30	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 18:30	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 18:30	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 18:30	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 18:30	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 18:30	WSD	
Dichlorodifluoromethane (Freon 12)	0.59	0.035		2.9	0.17	0.702	2/14/12 18:30	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 18:30	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 18:30	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 18:30	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 18:30	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 18:30	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 18:30	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 18:30	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 18:30	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 18:30	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 18:30	WSD	
Ethanol	2.4	1.4		4.6	2.6	0.702	2/14/12 18:30	WSD	
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/14/12 18:30	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 18:30	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 18:30	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 18:30	WSD	
Methylene Chloride	0.47	0.35		1.6	1.2	0.702	2/14/12 18:30	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	2/14/12 18:30	WSD	
Styrene	ND	0.035		ND	0.15	0.702	2/14/12 18:30	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-OA-02
Sample ID: 12B0323-18
Sample Matrix: Ambient Air
Sampled: 2/8/2012 17:44

Sample Description/Location:
Sub Description/Location:
Canister ID: 1613
Canister Size: 6 liter
Flow Controller ID: 3069
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -4.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12	18:30	WSD
Tetrachloroethylene	0.044	0.035		0.30	0.24	0.702	2/14/12	18:30	WSD
Toluene	0.20	0.035		0.74	0.13	0.702	2/14/12	18:30	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12	18:30	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	18:30	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12	18:30	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12	18:30	WSD
Trichlorofluoromethane (Freon 11)	0.27	0.035		1.5	0.20	0.702	2/14/12	18:30	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.035		0.63	0.27	0.702	2/14/12	18:30	WSD
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12	18:30	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12	18:30	WSD
2,2,4-Trimethylpentane	ND	0.094	V-05	ND	0.44	0.702	2/14/12	18:30	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12	18:30	WSD
m&p-Xylene	ND	0.070		ND	0.30	0.702	2/14/12	18:30	WSD
o-Xylene	ND	0.035		ND	0.15	0.702	2/14/12	18:30	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/14/12 18:30
4-Bromofluorobenzene (2)	122	70-130	2/14/12 18:30

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-SS-09
Sample ID: 12B0323-19
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 1614
Canister Size: 6 liter
Flow Controller ID: 3243
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Benzene	ND	0.10		ND	0.32	2	2/13/12	14:56	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12	14:56	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12	14:56	WSD
Bromoform	ND	0.10		ND	1.0	2	2/13/12	14:56	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/13/12	14:56	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12	14:56	WSD
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12	14:56	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12	14:56	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12	14:56	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/13/12	14:56	WSD
Chloroform	ND	0.10		ND	0.49	2	2/13/12	14:56	WSD
Chloromethane	ND	0.10		ND	0.21	2	2/13/12	14:56	WSD
Cyclohexane	0.14	0.10		0.49	0.34	2	2/13/12	14:56	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12	14:56	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12	14:56	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	14:56	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	14:56	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	14:56	WSD
Dichlorodifluoromethane (Freon 12)	0.59	0.10		2.9	0.49	2	2/13/12	14:56	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	14:56	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	14:56	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	14:56	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	14:56	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	14:56	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12	14:56	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	14:56	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	14:56	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12	14:56	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12	14:56	WSD
Ethanol	ND	4.0		ND	7.5	2	2/13/12	14:56	WSD
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12	14:56	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12	14:56	WSD
Hexane	ND	4.0		ND	14	2	2/13/12	14:56	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12	14:56	WSD
Methylene Chloride	1.9	1.0		6.8	3.5	2	2/13/12	14:56	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12	14:56	WSD
Styrene	ND	0.10		ND	0.43	2	2/13/12	14:56	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-SS-09
Sample ID: 12B0323-19
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 1614
Canister Size: 6 liter
Flow Controller ID: 3243
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	V-05	ND	0.69	2	2/13/12	14:56	WSD
Tetrachloroethylene	1.2	0.10		8.0	0.68	2	2/13/12	14:56	WSD
Toluene	0.10	0.10		0.39	0.38	2	2/13/12	14:56	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	14:56	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	14:56	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	14:56	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12	14:56	WSD
Trichlorofluoromethane (Freon 11)	11	0.10		61	0.56	2	2/13/12	14:56	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12	14:56	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	14:56	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	14:56	WSD
2,2,4-Trimethylpentane	ND	0.27		ND	1.3	2	2/13/12	14:56	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	14:56	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12	14:56	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12	14:56	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/13/12 14:56
4-Bromofluorobenzene (2)	119	70-130	2/13/12 14:56

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-09
Sample ID: 12B0323-20
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 1849
Canister Size: 6 liter
Flow Controller ID: 3244
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.29	0.035		0.93	0.11	0.702	2/15/12 1:22	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12 1:22	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12 1:22	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12 1:22	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12 1:22	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12 1:22	WSD	
Carbon Tetrachloride	0.069	0.035		0.43	0.22	0.702	2/15/12 1:22	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12 1:22	WSD	
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12 1:22	WSD	
Chloromethane	0.56	0.035		1.2	0.072	0.702	2/15/12 1:22	WSD	
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12 1:22	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12 1:22	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12 1:22	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12 1:22	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12 1:22	WSD	
1,4-Dichlorobenzene	0.054	0.035		0.32	0.21	0.702	2/15/12 1:22	WSD	
Dichlorodifluoromethane (Freon 12)	0.57	0.035		2.8	0.17	0.702	2/15/12 1:22	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12 1:22	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/15/12 1:22	WSD	
Ethanol	58	1.4		110	2.6	0.702	2/15/12 1:22	WSD	
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/15/12 1:22	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12 1:22	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/15/12 1:22	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12 1:22	WSD	
Methylene Chloride	1.4	0.35		5.0	1.2	0.702	2/15/12 1:22	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
Styrene	ND	0.035		ND	0.15	0.702	2/15/12 1:22	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-09
Sample ID: 12B0323-20
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 1849
Canister Size: 6 liter
Flow Controller ID: 3244
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/15/12 1:22	WSD	
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/15/12 1:22	WSD	
Toluene	0.20	0.035		0.75	0.13	0.702	2/15/12 1:22	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12 1:22	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12 1:22	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12 1:22	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12 1:22	WSD	
Trichlorofluoromethane (Freon 11)	9.5	0.035		54	0.20	0.702	2/15/12 1:22	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.035		0.64	0.27	0.702	2/15/12 1:22	WSD	
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12 1:22	WSD	
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12 1:22	WSD	
2,2,4-Trimethylpentane	ND	0.094	V-05	ND	0.44	0.702	2/15/12 1:22	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/15/12 1:22	WSD	
m&p-Xylene	ND	0.070		ND	0.30	0.702	2/15/12 1:22	WSD	
o-Xylene	ND	0.035		ND	0.15	0.702	2/15/12 1:22	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/15/12 1:22
4-Bromofluorobenzene (2)	126	70-130	2/15/12 1:22

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-SS-10
Sample ID: 12B0323-21
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1115
Canister Size: 6 liter
Flow Controller ID: 3087
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.48	0.10		1.5	0.32	2	2/13/12 15:37	WSD	
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 15:37	WSD	
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 15:37	WSD	
Bromoform	ND	0.10		ND	1.0	2	2/13/12 15:37	WSD	
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 15:37	WSD	
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 15:37	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 15:37	WSD	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 15:37	WSD	
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 15:37	WSD	
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 15:37	WSD	
Chloroform	0.25	0.10		1.2	0.49	2	2/13/12 15:37	WSD	
Chloromethane	ND	0.10		ND	0.21	2	2/13/12 15:37	WSD	
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 15:37	WSD	
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 15:37	WSD	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 15:37	WSD	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 15:37	WSD	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 15:37	WSD	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 15:37	WSD	
Dichlorodifluoromethane (Freon 12)	0.84	0.10		4.1	0.49	2	2/13/12 15:37	WSD	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 15:37	WSD	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 15:37	WSD	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 15:37	WSD	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 15:37	WSD	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 15:37	WSD	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 15:37	WSD	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 15:37	WSD	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 15:37	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 15:37	WSD	
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 15:37	WSD	
Ethanol	9.7	4.0		18	7.5	2	2/13/12 15:37	WSD	
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12 15:37	WSD	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 15:37	WSD	
Hexane	ND	4.0		ND	14	2	2/13/12 15:37	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 15:37	WSD	
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 15:37	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12 15:37	WSD	
Styrene	ND	0.10		ND	0.43	2	2/13/12 15:37	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-SS-10
Sample ID: 12B0323-21
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1115
Canister Size: 6 liter
Flow Controller ID: 3087
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 15:37	WSD	
Tetrachloroethylene	0.99	0.10		6.7	0.68	2	2/13/12 15:37	WSD	
Toluene	0.29	0.10		1.1	0.38	2	2/13/12 15:37	WSD	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 15:37	WSD	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 15:37	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 15:37	WSD	
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 15:37	WSD	
Trichlorofluoromethane (Freon 11)	19	0.10		110	0.56	2	2/13/12 15:37	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 15:37	WSD	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 15:37	WSD	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 15:37	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05	ND	1.3	2	2/13/12 15:37	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 15:37	WSD	
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 15:37	WSD	
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 15:37	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/13/12 15:37
4-Bromofluorobenzene (2)	121	70-130	2/13/12 15:37

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-10
Sample ID: 12B0323-22
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1855
Canister Size: 6 liter
Flow Controller ID: 3289
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Benzene	0.19	0.035		0.62	0.11	0.702	2/15/12	2:53	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12	2:53	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12	2:53	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12	2:53	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12	2:53	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12	2:53	WSD
Carbon Tetrachloride	0.071	0.035		0.45	0.22	0.702	2/15/12	2:53	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12	2:53	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12	2:53	WSD
Chloromethane	0.45	0.035		0.93	0.072	0.702	2/15/12	2:53	WSD
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12	2:53	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12	2:53	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12	2:53	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:53	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:53	WSD
1,4-Dichlorobenzene	0.046	0.035		0.28	0.21	0.702	2/15/12	2:53	WSD
Dichlorodifluoromethane (Freon 12)	0.54	0.035		2.7	0.17	0.702	2/15/12	2:53	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12	2:53	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/15/12	2:53	WSD
Ethanol	44	1.4		84	2.6	0.702	2/15/12	2:53	WSD
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/15/12	2:53	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12	2:53	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/15/12	2:53	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12	2:53	WSD
Methylene Chloride	0.39	0.35		1.4	1.2	0.702	2/15/12	2:53	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
Styrene	ND	0.035		ND	0.15	0.702	2/15/12	2:53	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-10
Sample ID: 12B0323-22
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 15:27

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1855
 Canister Size: 6 liter
 Flow Controller ID: 3289
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -9.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/15/12	2:53	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/15/12	2:53	WSD
Toluene	0.15	0.035		0.57	0.13	0.702	2/15/12	2:53	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12	2:53	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	2:53	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	2:53	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12	2:53	WSD
Trichlorofluoromethane (Freon 11)	9.8	0.035		55	0.20	0.702	2/15/12	2:53	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.035		0.62	0.27	0.702	2/15/12	2:53	WSD
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	2:53	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	2:53	WSD
2,2,4-Trimethylpentane	ND	0.094	V-05	ND	0.44	0.702	2/15/12	2:53	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/15/12	2:53	WSD
m&p-Xylene	ND	0.070		ND	0.30	0.702	2/15/12	2:53	WSD
o-Xylene	ND	0.035		ND	0.15	0.702	2/15/12	2:53	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/15/12 2:53
4-Bromofluorobenzene (2)	123	70-130	2/15/12 2:53

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-11
Sample ID: 12B0323-23
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1389
Canister Size: 6 liter
Flow Controller ID: 3275
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Benzene	ND	0.10		ND	0.32	2	2/13/12	16:18	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12	16:18	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12	16:18	WSD
Bromoform	ND	0.10		ND	1.0	2	2/13/12	16:18	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/13/12	16:18	WSD
2-Butanone (MEK)	4.7	4.0		14	12	2	2/13/12	16:18	WSD
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12	16:18	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12	16:18	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12	16:18	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/13/12	16:18	WSD
Chloroform	0.14	0.10		0.69	0.49	2	2/13/12	16:18	WSD
Chloromethane	ND	0.10		ND	0.21	2	2/13/12	16:18	WSD
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12	16:18	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12	16:18	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12	16:18	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	16:18	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	16:18	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12	16:18	WSD
Dichlorodifluoromethane (Freon 12)	20	0.10		99	0.49	2	2/13/12	16:18	WSD
1,1-Dichloroethane	0.13	0.10		0.53	0.40	2	2/13/12	16:18	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12	16:18	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	16:18	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	16:18	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12	16:18	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12	16:18	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	16:18	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12	16:18	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12	16:18	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12	16:18	WSD
Ethanol	ND	4.0		ND	7.5	2	2/13/12	16:18	WSD
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12	16:18	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12	16:18	WSD
Hexane	ND	4.0		ND	14	2	2/13/12	16:18	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12	16:18	WSD
Methylene Chloride	1.2	1.0		4.3	3.5	2	2/13/12	16:18	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	ND	0.41	2	2/13/12	16:18	WSD
Styrene	ND	0.10		ND	0.43	2	2/13/12	16:18	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-11
Sample ID: 12B0323-23
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1389
Canister Size: 6 liter
Flow Controller ID: 3275
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10	V-05	ND	0.69	2	2/13/12	16:18	WSD
Tetrachloroethylene	5.6	0.10		38	0.68	2	2/13/12	16:18	WSD
Toluene	0.92	0.10		3.5	0.38	2	2/13/12	16:18	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12	16:18	WSD
1,1,1-Trichloroethane	0.68	0.10		3.7	0.55	2	2/13/12	16:18	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12	16:18	WSD
Trichloroethylene	2.0	0.10		11	0.54	2	2/13/12	16:18	WSD
Trichlorofluoromethane (Freon 11)	0.49	0.10		2.7	0.56	2	2/13/12	16:18	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.12	0.10		0.92	0.77	2	2/13/12	16:18	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	16:18	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12	16:18	WSD
2,2,4-Trimethylpentane	ND	0.27		ND	1.3	2	2/13/12	16:18	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12	16:18	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12	16:18	WSD
o-Xylene	ND	0.10	ND	0.43	2	2/13/12	16:18	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/13/12 16:18
4-Bromofluorobenzene (2)	120	70-130	2/13/12 16:18

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-11
Sample ID: 12B0323-24
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1663
Canister Size: 6 liter
Flow Controller ID: 3013
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.19	0.035		0.59	0.11	0.702	2/15/12	2:07	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12	2:07	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12	2:07	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12	2:07	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12	2:07	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12	2:07	WSD
Carbon Tetrachloride	0.065	0.035		0.41	0.22	0.702	2/15/12	2:07	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12	2:07	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12	2:07	WSD
Chloromethane	0.49	0.035		1.0	0.072	0.702	2/15/12	2:07	WSD
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12	2:07	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12	2:07	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12	2:07	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:07	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:07	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:07	WSD
Dichlorodifluoromethane (Freon 12)	0.54	0.035		2.7	0.17	0.702	2/15/12	2:07	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12	2:07	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/15/12	2:07	WSD
Ethanol	4.2	1.4		7.9	2.6	0.702	2/15/12	2:07	WSD
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/15/12	2:07	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12	2:07	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/15/12	2:07	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12	2:07	WSD
Methylene Chloride	0.42	0.35		1.5	1.2	0.702	2/15/12	2:07	WSD
4-Methyl-2-pentanone (MIBK)	0.072	0.035		0.30	0.14	0.702	2/15/12	2:07	WSD
Styrene	ND	0.035		ND	0.15	0.702	2/15/12	2:07	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-11
Sample ID: 12B0323-24
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1663
Canister Size: 6 liter
Flow Controller ID: 3013
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035	V-05	ND	0.24	0.702	2/15/12	2:07	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/15/12	2:07	WSD
Toluene	0.23	0.035		0.85	0.13	0.702	2/15/12	2:07	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12	2:07	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	2:07	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	2:07	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12	2:07	WSD
Trichlorofluoromethane (Freon 11)	0.21	0.035		1.2	0.20	0.702	2/15/12	2:07	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.035		0.63	0.27	0.702	2/15/12	2:07	WSD
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	2:07	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	2:07	WSD
2,2,4-Trimethylpentane	ND	0.094		ND	0.44	0.702	2/15/12	2:07	WSD
Vinyl Chloride	ND	0.035	ND	0.090	0.702	2/15/12	2:07	WSD	
m&p-Xylene	ND	0.070	ND	0.30	0.702	2/15/12	2:07	WSD	
o-Xylene	ND	0.035	ND	0.15	0.702	2/15/12	2:07	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/15/12 2:07
4-Bromofluorobenzene (2)	125	70-130	2/15/12 2:07

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
12B0323-01 [PMF-UPS-SS01]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-03 [PMF-UPS-SS02]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-05 [PMF-UPS-SS03]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-07 [PMF-UPS-SS04]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-10 [PMF-MSBA-SS-05]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-12 [PMF-MSBA-SS-06]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-14 [PMF-MSBA-SS-07]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-16 [PMF-MSBA-SS-08]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-19 [PMF-CONC-SS-09]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-21 [PMF-CONC-SS-10]	B046173	2	1	N/A	1000	400	400	02/12/12
12B0323-23 [PMF-MSBA-SS-11]	B046173	2	1	N/A	1000	400	400	02/12/12

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
12B0323-02 [PMF-UPS-IA01]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-04 [PMF-UPS-IA02]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-06 [PMF-UPS-IA03]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-08 [PMF-UPS-IA04]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-09 [PMF-UPS-OA01]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-11 [PMF-MSBA-IA-05]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-13 [PMF-MSBA-IA-06]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-15 [PMF-MSBA-IA-07]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-17 [PMF-MSBA-IA-08]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-18 [PMF-MSBA-OA-02]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-20 [PMF-CONC-IA-09]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-22 [PMF-CONC-IA-10]	B046247	1.5	1	N/A	1000	400	855	02/14/12
12B0323-24 [PMF-MSBA-IA-11]	B046247	1.5	1	N/A	1000	400	855	02/14/12

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
12B0323-11RE1 [PMF-MSBA-IA-05]	B046266	1.5	1	N/A	1000	400	30	02/15/12

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
	Results	RL	Results	RL							

Batch B046173 - TO-15 Prep

Blank (B046173-BLK1)

Prepared & Analyzed: 02/12/12

Benzene	ND	0.025
Benzyl chloride	ND	0.025
Bromodichloromethane	ND	0.025
Bromoform	ND	0.025
Bromomethane	ND	0.025
2-Butanone (MEK)	ND	1.0
tert-Butyl Alcohol (TBA)	ND	0.10
Carbon Tetrachloride	ND	0.025
Chlorobenzene	ND	0.025
Chloroethane	ND	0.025
Chloroform	ND	0.025
Chloromethane	ND	0.025
Cyclohexane	ND	0.025
Dibromochloromethane	ND	0.025
1,2-Dibromoethane (EDB)	ND	0.025
1,2-Dichlorobenzene	ND	0.025
1,3-Dichlorobenzene	ND	0.025
1,4-Dichlorobenzene	ND	0.025
Dichlorodifluoromethane (Freon 12)	ND	0.025
1,1-Dichloroethane	ND	0.025
1,2-Dichloroethane	ND	0.025
1,1-Dichloroethylene	ND	0.025
cis-1,2-Dichloroethylene	ND	0.025
trans-1,2-Dichloroethylene	ND	0.025
1,2-Dichloropropane	ND	0.025
cis-1,3-Dichloropropene	ND	0.025
trans-1,3-Dichloropropene	ND	0.025
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025
1,4-Dioxane	ND	0.025
Ethanol	ND	1.0
Ethylbenzene	ND	0.025
Hexachlorobutadiene	ND	0.025
Hexane	ND	1.0
Methyl tert-Butyl Ether (MTBE)	ND	0.025
Methylene Chloride	ND	0.25
4-Methyl-2-pentanone (MIBK)	ND	0.025
Styrene	ND	0.025
1,1,2,2-Tetrachloroethane	ND	0.025
Tetrachloroethylene	ND	0.025
Toluene	ND	0.025
1,2,4-Trichlorobenzene	ND	0.025
1,1,1-Trichloroethane	ND	0.025
1,1,2-Trichloroethane	ND	0.025
Trichloroethylene	ND	0.025
Trichlorofluoromethane (Freon 11)	ND	0.025

V-05

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B046173 - TO-15 Prep											
Blank (B046173-BLK1)					Prepared & Analyzed: 02/12/12						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
2,2,4-Trimethylpentane	ND	0.067									V-05
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	8.16				8.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (2)	9.59				8.00		120	70-130			
LCS (B046173-BS1)					Prepared & Analyzed: 02/12/12						
Benzene	3.78				5.00		75.6	70-130			
Benzyl chloride	6.10				5.00		122	70-130			
Bromodichloromethane	4.17				5.00		83.3	70-130			
Bromoform	5.66				5.00		113	70-130			
Bromomethane	5.05				5.00		101	70-130			
2-Butanone (MEK)	4.27				5.00		85.4	70-130			
tert-Butyl Alcohol (TBA)	1.95				2.06		94.7	50-150			
Carbon Tetrachloride	4.98				5.00		99.7	70-130			
Chlorobenzene	4.57				5.00		91.4	70-130			
Chloroethane	5.07				5.00		101	70-130			
Chloroform	4.80				5.00		96.1	70-130			
Chloromethane	5.11				5.00		102	70-130			
Cyclohexane	4.12				5.00		82.5	50-150			
Dibromochloromethane	5.15				5.00		103	70-130			
1,2-Dibromoethane (EDB)	4.30				5.00		86.0	70-130			
1,2-Dichlorobenzene	4.91				5.00		98.3	70-130			
1,3-Dichlorobenzene	5.21				5.00		104	70-130			
1,4-Dichlorobenzene	5.02				5.00		100	70-130			
Dichlorodifluoromethane (Freon 12)	5.40				5.00		108	70-130			
1,1-Dichloroethane	4.46				5.00		89.2	70-130			
1,2-Dichloroethane	4.45				5.00		89.0	70-130			
1,1-Dichloroethylene	4.31				5.00		86.3	70-130			
cis-1,2-Dichloroethylene	4.25				5.00		85.1	70-130			
trans-1,2-Dichloroethylene	4.24				5.00		84.9	70-130			
1,2-Dichloropropane	3.80				5.00		76.0	70-130			
cis-1,3-Dichloropropene	4.15				5.00		83.0	70-130			
trans-1,3-Dichloropropene	3.74				5.00		74.7	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.53				5.00		111	70-130			
1,4-Dioxane	4.01				5.00		80.2	70-130			
Ethanol	5.42				5.00		108	50-150			
Ethylbenzene	4.52				5.00		90.3	70-130			
Hexachlorobutadiene	4.95				5.00		99.0	70-130			
Hexane	4.70				5.00		93.9	70-130			
Methyl tert-Butyl Ether (MTBE)	4.40				5.00		88.0	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
	Results	RL	Results	RL							
Batch B046173 - TO-15 Prep											
LCS (B046173-BS1)					Prepared & Analyzed: 02/12/12						
Methylene Chloride	4.66				5.00		93.3	70-130			
4-Methyl-2-pentanone (MIBK)	3.65				5.00		73.0	70-130			V-05
Styrene	4.58				5.00		91.5	70-130			
1,1,2,2-Tetrachloroethane	4.56				5.00		91.2	70-130			
Tetrachloroethylene	4.48				5.00		89.7	70-130			
Toluene	4.39				5.00		87.8	70-130			
1,2,4-Trichlorobenzene	5.29				5.00		106	70-130			
1,1,1-Trichloroethane	4.18				5.00		83.6	70-130			
1,1,2-Trichloroethane	4.45				5.00		89.0	70-130			
Trichloroethylene	4.02				5.00		80.3	70-130			
Trichlorofluoromethane (Freon 11)	5.60				5.00		112	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.20				5.00		104	70-130			
1,2,4-Trimethylbenzene	4.84				5.00		96.7	70-130			
1,3,5-Trimethylbenzene	4.90				5.00		97.9	70-130			
2,2,4-Trimethylpentane	0.969				1.34		72.3	70-130			V-05
Vinyl Chloride	5.07				5.00		101	70-130			
m&p-Xylene	9.66				10.0		96.6	70-130			
o-Xylene	4.74				5.00		94.9	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.39				8.00		105	70-130			
Surrogate: 4-Bromofluorobenzene (2)	9.43				8.00		118	70-130			
Duplicate (B046173-DUP1)		Source: 12B0323-01			Prepared: 02/12/12 Analyzed: 02/13/12						
Benzene	0.18	0.10	0.58	0.32		0.18			0.00	25	
Benzyl chloride	ND	0.10	ND	0.52		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
2-Butanone (MEK)	0.33	4.0	0.98	12		0.30			12.1	25	
tert-Butyl Alcohol (TBA)	ND	0.41	ND	1.2		ND				25	
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	ND	0.10	ND	0.49		ND				25	
Chloromethane	0.22	0.10	0.45	0.21		0.17			21.5	25	
Cyclohexane	ND	0.10	ND	0.34		ND				25	
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	0.16	0.10	0.95	0.60		0.17			9.64	25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
Dichlorodifluoromethane (Freon 12)	0.57	0.10	2.8	0.49		0.57			0.00	25	
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	

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Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
	Results	RL	Results	RL							
Batch B046173 - TO-15 Prep											
Duplicate (B046173-DUP1)	Source: 12B0323-01				Prepared: 02/12/12 Analyzed: 02/13/12						
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	0.10	ND	0.36		ND				25	
Ethanol	14	4.0	26	7.5		11			23.5	25	
Ethylbenzene	0.22	0.10	0.96	0.43		0.18			22.2	25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	0.20	4.0	0.70	14		0.19			3.08	25	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	0.38	1.0	1.3	3.5		0.40			4.60	25	
4-Methyl-2-pentanone (MIBK)	ND	0.10	ND	0.41		ND				25	V-05
Styrene	0.15	0.10	0.66	0.43		0.12			21.6	25	
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	4.0	0.10	27	0.68		3.7			6.70	25	
Toluene	0.83	0.10	3.1	0.38		0.67			20.8	25	
1,2,4-Trichlorobenzene	0.17	0.10	1.3	0.74		0.21			21.1	25	
1,1,1-Trichloroethane	ND	0.10	ND	0.55		ND				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	ND	0.10	ND	0.54		ND				25	
Trichlorofluoromethane (Freon 11)	0.45	0.10	2.5	0.56		0.41			8.78	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10	ND	0.77		0.10				25	
1,2,4-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
2,2,4-Trimethylpentane	ND	0.27	ND	1.3		ND				25	V-05
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
m&p-Xylene	0.50	0.20	2.2	0.87		0.44			12.3	25	
o-Xylene	0.19	0.10	0.84	0.43		0.17			12.0	25	
Surrogate: 4-Bromofluorobenzene (1)	8.25				8.00		103	70-130			
Surrogate: 4-Bromofluorobenzene (2)	9.53				8.00		119	70-130			

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Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	Limits	RPD	Limit	Flag
	Results	RL	Results	RL	ppbv	Result					

Batch B046247 - TO-15 Prep
Blank (B046247-BLK1)

Prepared & Analyzed: 02/14/12

Benzene	ND	0.025
Benzyl chloride	ND	0.025
Bromodichloromethane	ND	0.025
Bromoform	ND	0.025
Bromomethane	ND	0.025
2-Butanone (MEK)	ND	1.0
tert-Butyl Alcohol (TBA)	ND	0.10
Carbon Tetrachloride	ND	0.025
Chlorobenzene	ND	0.025
Chloroethane	ND	0.025
Chloroform	ND	0.025
Chloromethane	ND	0.025
Cyclohexane	ND	0.025
Dibromochloromethane	ND	0.025
1,2-Dibromoethane (EDB)	ND	0.025
1,2-Dichlorobenzene	ND	0.025
1,3-Dichlorobenzene	ND	0.025
1,4-Dichlorobenzene	ND	0.025
Dichlorodifluoromethane (Freon 12)	ND	0.025
1,1-Dichloroethane	ND	0.025
1,2-Dichloroethane	ND	0.025
1,1-Dichloroethylene	ND	0.025
cis-1,2-Dichloroethylene	ND	0.025
trans-1,2-Dichloroethylene	ND	0.025
1,2-Dichloropropane	ND	0.025
cis-1,3-Dichloropropene	ND	0.025
trans-1,3-Dichloropropene	ND	0.025
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025
1,4-Dioxane	ND	0.025
Ethanol	ND	1.0
Ethylbenzene	ND	0.025
Hexachlorobutadiene	ND	0.025
Hexane	ND	1.0
Methyl tert-Butyl Ether (MTBE)	ND	0.025
Methylene Chloride	ND	0.25
4-Methyl-2-pentanone (MIBK)	ND	0.025
Styrene	ND	0.025
1,1,2,2-Tetrachloroethane	ND	0.025
Tetrachloroethylene	ND	0.025
Toluene	ND	0.025
1,2,4-Trichlorobenzene	ND	0.025
1,1,1-Trichloroethane	ND	0.025
1,1,2-Trichloroethane	ND	0.025
Trichloroethylene	ND	0.025
Trichlorofluoromethane (Freon 11)	ND	0.025

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag	
	Results	RL	Results	RL								
Batch B046247 - TO-15 Prep												
Blank (B046247-BLK1)					Prepared & Analyzed: 02/14/12							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025										
1,2,4-Trimethylbenzene	ND	0.025										
1,3,5-Trimethylbenzene	ND	0.025										
2,2,4-Trimethylpentane	ND	0.067									V-05	
Vinyl Chloride	ND	0.025										
m&p-Xylene	ND	0.050										
o-Xylene	ND	0.025										
Surrogate: 4-Bromofluorobenzene (1)	8.36				8.00		105	70-130				
Surrogate: 4-Bromofluorobenzene (2)	9.76				8.00		122	70-130				
LCS (B046247-BS1)					Prepared & Analyzed: 02/14/12							
Benzene	3.92				5.00		78.3	70-130				
Benzyl chloride	6.37				5.00		127	70-130				
Bromodichloromethane	4.23				5.00		84.6	70-130				
Bromoform	5.95				5.00		119	70-130				
Bromomethane	4.51				5.00		90.2	70-130				
2-Butanone (MEK)	4.75				5.00		95.1	70-130				
tert-Butyl Alcohol (TBA)	1.89				2.06		91.6	50-150				
Carbon Tetrachloride	5.05				5.00		101	70-130				
Chlorobenzene	4.70				5.00		94.0	70-130				
Chloroethane	4.64				5.00		92.7	70-130				
Chloroform	5.20				5.00		104	70-130				
Chloromethane	4.48				5.00		89.5	70-130				
Cyclohexane	4.28				5.00		85.7	50-150				
Dibromochloromethane	5.20				5.00		104	70-130				
1,2-Dibromoethane (EDB)	4.43				5.00		88.5	70-130				
1,2-Dichlorobenzene	5.25				5.00		105	70-130				
1,3-Dichlorobenzene	5.40				5.00		108	70-130				
1,4-Dichlorobenzene	5.24				5.00		105	70-130				
Dichlorodifluoromethane (Freon 12)	5.56				5.00		111	70-130				
1,1-Dichloroethane	5.00				5.00		100	70-130				
1,2-Dichloroethane	4.71				5.00		94.3	70-130				
1,1-Dichloroethylene	4.67				5.00		93.5	70-130				
cis-1,2-Dichloroethylene	4.63				5.00		92.5	70-130				
trans-1,2-Dichloroethylene	4.78				5.00		95.6	70-130				
1,2-Dichloropropane	3.81				5.00		76.2	70-130				
cis-1,3-Dichloropropene	4.35				5.00		87.0	70-130				
trans-1,3-Dichloropropene	3.94				5.00		78.8	70-130				
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.95				5.00		98.9	70-130				
1,4-Dioxane	4.37				5.00		87.3	70-130				
Ethanol	4.59				5.00		91.8	50-150				
Ethylbenzene	4.62				5.00		92.4	70-130				
Hexachlorobutadiene	5.43				5.00		109	70-130				
Hexane	4.96				5.00		99.3	70-130				
Methyl tert-Butyl Ether (MTBE)	5.14				5.00		103	70-130				

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
	Results	RL	Results	RL							
Batch B046247 - TO-15 Prep											
LCS (B046247-BS1)					Prepared & Analyzed: 02/14/12						
Methylene Chloride	4.94				5.00		98.8	70-130			
4-Methyl-2-pentanone (MIBK)	3.62				5.00		72.4	70-130			
Styrene	4.82				5.00		96.3	70-130			
1,1,2,2-Tetrachloroethane	4.57				5.00		91.3	70-130			
Tetrachloroethylene	4.73				5.00		94.6	70-130			
Toluene	4.55				5.00		91.0	70-130			
1,2,4-Trichlorobenzene	5.82				5.00		116	70-130			
1,1,1-Trichloroethane	4.25				5.00		85.0	70-130			
1,1,2-Trichloroethane	4.50				5.00		89.9	70-130			
Trichloroethylene	4.24				5.00		84.8	70-130			
Trichlorofluoromethane (Freon 11)	4.75				5.00		95.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.91				5.00		118	70-130			
1,2,4-Trimethylbenzene	5.03				5.00		101	70-130			
1,3,5-Trimethylbenzene	5.08				5.00		102	70-130			
2,2,4-Trimethylpentane	1.02				1.34		76.3	70-130			V-05
Vinyl Chloride	4.54				5.00		90.8	70-130			
m&p-Xylene	9.71				10.0		97.1	70-130			
o-Xylene	4.79				5.00		95.8	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.73				8.00		109	70-130			
Surrogate: 4-Bromofluorobenzene (2)	9.53				8.00		119	70-130			
Duplicate (B046247-DUP1)		Source: 12B0323-22			Prepared: 02/14/12 Analyzed: 02/15/12						
Benzene	0.19	0.035	0.61	0.11		0.19			2.56	25	
Benzyl chloride	ND	0.035	ND	0.18		ND				25	
Bromodichloromethane	ND	0.035	ND	0.24		ND				25	
Bromoform	ND	0.035	ND	0.36		ND				25	
Bromomethane	ND	0.035	ND	0.14		ND				25	
2-Butanone (MEK)	0.55	1.4	1.6	4.1		0.53			3.27	25	
tert-Butyl Alcohol (TBA)	ND	0.14	ND	0.44		ND				25	
Carbon Tetrachloride	0.069	0.035	0.43	0.22		0.071			3.02	25	
Chlorobenzene	ND	0.035	ND	0.16		ND				25	
Chloroethane	ND	0.035	ND	0.093		ND				25	
Chloroform	ND	0.035	ND	0.17		ND				25	
Chloromethane	0.62	0.035	1.3	0.072		0.45			32.5	25	R-01
Cyclohexane	0.062	0.035	0.21	0.12		ND				25	
Dibromochloromethane	ND	0.035	ND	0.30		ND				25	
1,2-Dibromoethane (EDB)	ND	0.035	ND	0.27		ND				25	
1,2-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
1,3-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
1,4-Dichlorobenzene	0.044	0.035	0.26	0.21		0.046			6.25	25	
Dichlorodifluoromethane (Freon 12)	0.54	0.035	2.7	0.17		0.54			0.391	25	
1,1-Dichloroethane	ND	0.035	ND	0.14		ND				25	
1,2-Dichloroethane	ND	0.035	ND	0.14		ND				25	
1,1-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
cis-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
trans-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	

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QUALITY CONTROL

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Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
	Results	RL	Results	RL							
Batch B046247 - TO-15 Prep											
Duplicate (B046247-DUP1)	Source: 12B0323-22				Prepared: 02/14/12 Analyzed: 02/15/12						
1,2-Dichloropropane	ND	0.035	ND	0.16		ND				25	
cis-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
trans-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	ND	0.25		ND				25	
1,4-Dioxane	ND	0.035	ND	0.13		ND				25	
Ethanol	46	1.4	87	2.6		44			3.88	25	
Ethylbenzene	ND	0.035	ND	0.15		ND				25	
Hexachlorobutadiene	ND	0.035	ND	0.37		ND				25	
Hexane	0.16	1.4	0.55	4.9		0.15			3.20	25	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	ND	0.13		ND				25	
Methylene Chloride	0.39	0.35	1.4	1.2		0.39			0.898	25	
4-Methyl-2-pentanone (MIBK)	ND	0.035	ND	0.14		ND				25	
Styrene	ND	0.035	ND	0.15		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.035	ND	0.24		ND				25	
Tetrachloroethylene	ND	0.035	ND	0.24		ND				25	
Toluene	0.17	0.035	0.66	0.13		0.15			15.1	25	
1,2,4-Trichlorobenzene	ND	0.035	ND	0.26		ND				25	
1,1,1-Trichloroethane	ND	0.035	ND	0.19		ND				25	
1,1,2-Trichloroethane	ND	0.035	ND	0.19		ND				25	
Trichloroethylene	ND	0.035	ND	0.19		ND				25	
Trichlorofluoromethane (Freon 11)	11	0.035	59	0.20		9.8			6.46	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.086	0.035	0.66	0.27		0.081			5.91	25	
1,2,4-Trimethylbenzene	ND	0.035	ND	0.17		ND				25	
1,3,5-Trimethylbenzene	ND	0.035	ND	0.17		ND				25	
2,2,4-Trimethylpentane	ND	0.094	ND	0.44		ND				25	V-05
Vinyl Chloride	ND	0.035	ND	0.090		ND				25	
m&p-Xylene	0.067	0.070	0.29	0.30		0.060			12.2	25	
o-Xylene	ND	0.035	ND	0.15		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	8.16				8.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (2)	9.55				8.00		119	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
	Results	RL	Results	RL							

Batch B046266 - TO-15 Prep

Blank (B046266-BLK1)

Prepared & Analyzed: 02/15/12

Ethanol	ND	2.0									
Surrogate: 4-Bromofluorobenzene (1)	8.11				8.00		101	70-130			

LCS (B046266-BS1)

Prepared & Analyzed: 02/15/12

Ethanol	7.14				5.00		143	50-150			
Surrogate: 4-Bromofluorobenzene (1)	8.63				8.00		108	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
R-01	Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S001777-CCV1)									
Lab File ID: G021206.D					Analyzed: 02/12/12 19:43				
Bromochloromethane (1)	313119	8.777	401737	8.777	78	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	973464	10.671	1069544	10.671	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	850011	15.43	963689	15.439	88	60 - 140	-0.0090	+/-0.50	
LCS (B046173-BS1)									
Lab File ID: G021207.D					Analyzed: 02/12/12 20:20				
Bromochloromethane (1)	309816	8.794	313119	8.777	99	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	964066	10.671	973464	10.671	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	829660	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	921729	10.671	931811	10.679	99	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	165943	15.439	168668	15.447	98	60 - 140	-0.0080	+/-0.50	
Blank (B046173-BLK1)									
Lab File ID: G021209.D					Analyzed: 02/12/12 23:00				
Bromochloromethane (1)	288982	8.786	313119	8.777	92	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	871269	10.671	973464	10.671	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	797950	15.439	850011	15.43	94	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	870924	10.671	931811	10.679	93	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	160138	15.439	168668	15.447	95	60 - 140	-0.0080	+/-0.50	
PMF-UPS-SS01 (12B0323-01)									
Lab File ID: G021213.D					Analyzed: 02/13/12 09:27				
Bromochloromethane (1)	299059	8.786	313119	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	924487	10.671	973464	10.671	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	846162	15.43	850011	15.43	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	924115	10.671	931811	10.679	99	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	170463	15.43	168668	15.447	101	60 - 140	-0.0170	+/-0.50	
Duplicate (B046173-DUP1)									
Lab File ID: G021214.D					Analyzed: 02/13/12 10:09				
Bromochloromethane (1)	309657	8.803	313119	8.777	99	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	951669	10.679	973464	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	872143	15.439	850011	15.43	103	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	950830	10.679	931811	10.679	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	176293	15.439	168668	15.447	105	60 - 140	-0.0080	+/-0.50	
PMF-UPS-SS02 (12B0323-03)									
Lab File ID: G021215.D					Analyzed: 02/13/12 10:50				
Bromochloromethane (1)	303999	8.786	313119	8.777	97	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	947118	10.671	973464	10.671	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	859201	15.439	850011	15.43	101	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	946841	10.671	931811	10.679	102	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	175079	15.439	168668	15.447	104	60 - 140	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-UPS-SS03 (12B0323-05) Lab File ID: G021216.D Analyzed: 02/13/12 11:31									
Bromochloromethane (1)	310379	8.803	313119	8.777	99	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	954107	10.679	973464	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	831528	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	953487	10.679	931811	10.679	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	166474	15.439	168668	15.447	99	60 - 140	-0.0080	+/-0.50	
PMF-UPS-SS04 (12B0323-07) Lab File ID: G021217.D Analyzed: 02/13/12 12:12									
Bromochloromethane (1)	302321	8.794	313119	8.777	97	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	913958	10.671	973464	10.671	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	836365	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	913591	10.671	931811	10.679	98	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	167957	15.439	168668	15.447	100	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-06 (12B0323-12) Lab File ID: G021218.D Analyzed: 02/13/12 12:53									
Bromochloromethane (1)	292403	8.786	313119	8.777	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	909351	10.671	973464	10.671	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	819332	15.439	850011	15.43	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	908939	10.671	931811	10.679	98	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	164352	15.439	168668	15.447	97	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-07 (12B0323-14) Lab File ID: G021219.D Analyzed: 02/13/12 13:34									
Bromochloromethane (1)	301826	8.786	313119	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	940105	10.671	973464	10.671	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	834028	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	939665	10.671	931811	10.679	101	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	166974	15.439	168668	15.447	99	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-08 (12B0323-16) Lab File ID: G021220.D Analyzed: 02/13/12 14:15									
Bromochloromethane (1)	308081	8.794	313119	8.777	98	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	951250	10.671	973464	10.671	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	849422	15.439	850011	15.43	100	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	951059	10.671	931811	10.679	102	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	169313	15.439	168668	15.447	100	60 - 140	-0.0080	+/-0.50	
PMF-CONC-SS-09 (12B0323-19) Lab File ID: G021221.D Analyzed: 02/13/12 14:56									
Bromochloromethane (1)	303458	8.794	313119	8.777	97	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	934612	10.671	973464	10.671	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	861497	15.439	850011	15.43	101	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	934307	10.671	931811	10.679	100	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	170303	15.439	168668	15.447	101	60 - 140	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-CONC-SS-10 (12B0323-21) Lab File ID: G021222.D Analyzed: 02/13/12 15:37									
Bromochloromethane (1)	308077	8.803	313119	8.777	98	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	962463	10.679	973464	10.671	99	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	867153	15.439	850011	15.43	102	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	962009	10.679	931811	10.679	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	173097	15.439	168668	15.447	103	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-11 (12B0323-23) Lab File ID: G021223.D Analyzed: 02/13/12 16:18									
Bromochloromethane (1)	300643	8.786	313119	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	934779	10.671	973464	10.671	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	843284	15.439	850011	15.43	99	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	934410	10.671	931811	10.679	100	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	169414	15.439	168668	15.447	100	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-05 (12B0323-10) Lab File ID: G021224.D Analyzed: 02/13/12 16:59									
Bromochloromethane (1)	300402	8.794	313119	8.777	96	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	954523	10.679	973464	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	864672	15.439	850011	15.43	102	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	954523	10.679	931811	10.679	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	172715	15.439	168668	15.447	102	60 - 140	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S001781-CCV1) Lab File ID: G021402.D Analyzed: 02/14/12 11:44									
Bromochloromethane (1)	333753	8.777	401737	8.777	83	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1094907	10.663	1069544	10.671	102	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (1)	995254	15.43	963689	15.439	103	60 - 140	-0.0090	+/-0.50	
LCS (B046247-BS1) Lab File ID: G021403.D Analyzed: 02/14/12 12:22									
Bromochloromethane (1)	325796	8.786	333753	8.777	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1086337	10.671	1094907	10.663	99	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	968872	15.439	995254	15.43	97	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	869751	10.671	911505	10.671	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	156694	15.448	165325	15.448	95	60 - 140	0.0000	+/-0.50	
Blank (B046247-BLK1) Lab File ID: G021409.D Analyzed: 02/14/12 16:59									
Bromochloromethane (1)	270856	8.786	333753	8.777	81	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	851657	10.671	1094907	10.663	78	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	779269	15.439	995254	15.43	78	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	851381	10.671	911505	10.671	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	153812	15.439	165325	15.448	93	60 - 140	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-UPS-OA01 (12B0323-09) Lab File ID: G021410.D Analyzed: 02/14/12 17:45									
Bromochloromethane (1)	276609	8.786	333753	8.777	83	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	874251	10.671	1094907	10.663	80	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	790928	15.439	995254	15.43	79	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	874005	10.671	911505	10.671	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	156430	15.439	165325	15.448	95	60 - 140	-0.0090	+/-0.50	
PMF-MSBA-OA-02 (12B0323-18) Lab File ID: G021411.D Analyzed: 02/14/12 18:30									
Bromochloromethane (1)	276490	8.794	333753	8.777	83	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	879105	10.679	1094907	10.663	80	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	787495	15.439	995254	15.43	79	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	878581	10.679	911505	10.671	96	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	156058	15.439	165325	15.448	94	60 - 140	-0.0090	+/-0.50	
PMF-UPS-IA01 (12B0323-02) Lab File ID: G021412.D Analyzed: 02/14/12 19:16									
Bromochloromethane (1)	296608	8.786	333753	8.777	89	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	922156	10.671	1094907	10.663	84	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	848247	15.439	995254	15.43	85	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	921734	10.671	911505	10.671	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	169690	15.439	165325	15.448	103	60 - 140	-0.0090	+/-0.50	
PMF-UPS-IA02 (12B0323-04) Lab File ID: G021413.D Analyzed: 02/14/12 20:02									
Bromochloromethane (1)	302284	8.786	333753	8.777	91	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	953546	10.671	1094907	10.663	87	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	874144	15.439	995254	15.43	88	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	953098	10.671	911505	10.671	105	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	174612	15.439	165325	15.448	106	60 - 140	-0.0090	+/-0.50	
PMF-UPS-IA03 (12B0323-06) Lab File ID: G021414.D Analyzed: 02/14/12 20:48									
Bromochloromethane (1)	312210	8.786	333753	8.777	94	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	992738	10.671	1094907	10.663	91	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	911001	15.439	995254	15.43	92	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	992325	10.671	911505	10.671	109	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	182655	15.439	165325	15.448	110	60 - 140	-0.0090	+/-0.50	
PMF-UPS-IA04 (12B0323-08) Lab File ID: G021415.D Analyzed: 02/14/12 21:33									
Bromochloromethane (1)	320487	8.786	333753	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1019857	10.671	1094907	10.663	93	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	934098	15.439	995254	15.43	94	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1019244	10.671	911505	10.671	112	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	184121	15.439	165325	15.448	111	60 - 140	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-MSBA-IA-05 (12B0323-11) Lab File ID: G021416.D Analyzed: 02/14/12 22:19									
Bromochloromethane (1)	335625	8.803	333753	8.777	101	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	1101532	10.688	1094907	10.663	101	60 - 140	0.0250	+/-0.50	
Chlorobenzene-d5 (1)	976126	15.447	995254	15.43	98	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (2)	1100684	10.688	911505	10.671	121	60 - 140	0.0170	+/-0.50	
Chlorobenzene-d5 (2)	188677	15.447	165325	15.448	114	60 - 140	-0.0010	+/-0.50	
PMF-MSBA-IA-06 (12B0323-13) Lab File ID: G021417.D Analyzed: 02/14/12 23:04									
Bromochloromethane (1)	325309	8.786	333753	8.777	97	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1091489	10.671	1094907	10.663	100	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	981669	15.439	995254	15.43	99	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1091120	10.671	911505	10.671	120	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	182707	15.439	165325	15.448	111	60 - 140	-0.0090	+/-0.50	
PMF-MSBA-IA-07 (12B0323-15) Lab File ID: G021418.D Analyzed: 02/14/12 23:50									
Bromochloromethane (1)	328592	8.794	333753	8.777	98	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	1109266	10.679	1094907	10.663	101	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	986242	15.439	995254	15.43	99	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1108466	10.679	911505	10.671	122	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	184340	15.439	165325	15.448	112	60 - 140	-0.0090	+/-0.50	
PMF-MSBA-IA-08 (12B0323-17) Lab File ID: G021419.D Analyzed: 02/15/12 00:36									
Bromochloromethane (1)	330026	8.794	333753	8.777	99	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	1109081	10.679	1094907	10.663	101	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	996000	15.439	995254	15.43	100	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1108438	10.679	911505	10.671	122	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	185749	15.439	165325	15.448	112	60 - 140	-0.0090	+/-0.50	
PMF-CONC-IA-09 (12B0323-20) Lab File ID: G021420.D Analyzed: 02/15/12 01:22									
Bromochloromethane (1)	330148	8.803	333753	8.777	99	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	1100026	10.679	1094907	10.663	100	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	974825	15.439	995254	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1099389	10.679	911505	10.671	121	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	182901	15.439	165325	15.448	111	60 - 140	-0.0090	+/-0.50	
PMF-MSBA-IA-11 (12B0323-24) Lab File ID: G021421.D Analyzed: 02/15/12 02:07									
Bromochloromethane (1)	321812	8.786	333753	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1040348	10.671	1094907	10.663	95	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	927937	15.439	995254	15.43	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1039793	10.671	911505	10.671	114	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	177176	15.439	165325	15.448	107	60 - 140	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-CONC-IA-10 (12B0323-22) Lab File ID: G021422.D Analyzed: 02/15/12 02:53									
Bromochloromethane (1)	311283	8.786	333753	8.777	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	989358	10.671	1094907	10.663	90	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	903130	15.439	995254	15.43	91	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	988856	10.671	911505	10.671	108	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	176471	15.439	165325	15.448	107	60 - 140	-0.0090	+/-0.50	
Duplicate (B046247-DUP1) Lab File ID: G021423.D Analyzed: 02/15/12 03:39									
Bromochloromethane (1)	304231	8.803	333753	8.777	91	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	947992	10.679	1094907	10.663	87	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	857608	15.439	995254	15.43	86	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	947042	10.679	911505	10.671	104	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	169961	15.439	165325	15.448	103	60 - 140	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S001786-CCV1) Lab File ID: G021503.D Analyzed: 02/15/12 13:15									
Bromochloromethane (1)	292830	8.786	401737	8.777	73	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	930814	10.671	1069544	10.671	87	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	826626	15.439	963689	15.439	86	60 - 140	0.0000	+/-0.50	
LCS (B046266-BS1) Lab File ID: G021504.D Analyzed: 02/15/12 13:53									
Bromochloromethane (1)	290794	8.794	292830	8.786	99	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	916481	10.679	930814	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	798902	15.439	826626	15.439	97	60 - 140	0.0000	+/-0.50	
Blank (B046266-BLK1) Lab File ID: G021507.D Analyzed: 02/15/12 15:54									
Bromochloromethane (1)	267559	8.794	292830	8.786	91	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	848158	10.679	930814	10.671	91	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	786102	15.439	826626	15.439	95	60 - 140	0.0000	+/-0.50	
PMF-MSBA-IA-05 (12B0323-11RE1) Lab File ID: G021508.D Analyzed: 02/15/12 16:31									
Bromochloromethane (1)	259633	8.786	292830	8.786	89	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	820019	10.671	930814	10.671	88	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	751483	15.439	826626	15.439	91	60 - 140	0.0000	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S001777-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	5.00	3.52	0.9919301	0.698114	0.05	-29.6	30
Benzyl chloride	A	5.00	5.56	0.8499213	0.9456461	0.05	11.3	30
Bromodichloromethane	A	5.00	3.94	0.6068467	0.4787949	0.05	-21.1	30
Bromoform	A	5.00	5.27	0.4704248	0.4955606	0.05	5.3	30
Bromomethane	A	5.00	4.29	0.5137459	0.440446	0.05	-14.3	30
2-Butanone (MEK)	A	5.00	3.87	1.576877	1.220796	0.05	-22.6	30
Carbon Tetrachloride	A	5.00	4.78	0.4740071	0.4535605	0.05	-4.3	30
Chlorobenzene	A	5.00	4.35	0.9691024	0.8430479	0.05	-13.0	30
Chloroethane	A	5.00	4.30	0.2436821	0.2094028	0.05	-14.1	30
Chloroform	A	5.00	4.58	1.597242	1.462084	0.05	-8.5	30
Chloromethane	A	5.00	4.02	0.4507408	0.3620809	0.05	-19.7	30
Cyclohexane	A	5.00	3.86	0.4185998	0.3231824	0.05	-22.8	30
Dibromochloromethane	A	5.00	4.83	0.5702959	0.5511364	0.05	-3.4	30
1,2-Dibromoethane (EDB)	A	5.00	4.04	0.6212373	0.5018476	0.05	-19.2	30
1,2-Dichlorobenzene	A	5.00	4.47	0.824805	0.7380027	0.05	-10.5	30
1,3-Dichlorobenzene	A	5.00	4.74	0.8705477	0.8251244	0.05	-5.2	30
1,4-Dichlorobenzene	A	5.00	4.58	0.8910381	0.815532	0.05	-8.5	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.14	1.567894	1.611487	0.05	2.8	30
1,1-Dichloroethane	A	5.00	4.18	1.49737	1.251261	0.05	-16.4	30
1,2-Dichloroethane	A	5.00	4.24	1.076954	0.9132375	0.05	-15.2	30
1,1-Dichloroethylene	A	5.00	3.87	1.211692	0.9372692	0.05	-22.6	30
cis-1,2-Dichloroethylene	A	5.00	3.93	1.140275	0.8957821	0.05	-21.4	30
trans-1,2-Dichloroethylene	A	5.00	3.70	1.208532	0.8931454	0.05	-26.1	30
1,2-Dichloropropane	A	5.00	3.59	0.3723186	0.267311	0.05	-28.2	30
cis-1,3-Dichloropropene	A	5.00	3.91	0.4910029	0.3840158	0.05	-21.8	30
trans-1,3-Dichloropropene	A	5.00	3.55	0.4597172	0.3262	0.05	-29.0	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.66	1.433844	1.336075	0.05	-6.8	30
1,4-Dioxane	A	5.00	3.74	0.2208977	0.165351	0.05	-25.1	30
Ethanol	A	5.00	2.71	0.1637235	8.884035E-02	0.05	-45.7	50
Ethylbenzene	A	5.00	4.30	1.520996	1.307127	0.05	-14.1	30
Hexachlorobutadiene	A	5.00	4.04	0.538906	0.4358249	0.05	-19.1	30
Hexane	A	5.00	4.45	0.8183708	0.7288884	0.05	-10.9	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.04	2.018342	1.631819	0.05	-19.2	30
Methylene Chloride	A	5.00	4.41	0.8716831	0.7691031	0.05	-11.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	3.41	0.7454366	0.5081762	0.05	-31.8	30 *
Styrene	A	5.00	4.42	0.8778577	0.7757509	0.05	-11.6	30
1,1,2,2-Tetrachloroethane	A	5.00	4.26	0.9145309	0.7797283	0.05	-14.7	30
Tetrachloroethylene	A	5.00	4.16	0.5193439	0.4324857	0.05	-16.7	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S001777-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toluene	A	5.00	4.16	1.204989	1.002995	0.05	-16.8	30
1,2,4-Trichlorobenzene	A	5.00	3.84	0.5935905	0.456156	0.05	-23.2	30
1,1,1-Trichloroethane	A	5.00	3.96	0.5355351	0.4235563	0.05	-20.9	30
1,1,2-Trichloroethane	A	5.00	4.22	0.4163953	0.3510317	0.05	-15.7	30
Trichloroethylene	A	5.00	3.88	0.4043424	0.3135393	0.05	-22.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.99	1.24975	1.247797	0.05	-0.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.80	1.416589	1.360178	0.05	-4.0	30
1,2,4-Trimethylbenzene	A	5.00	4.52	1.301536	1.177269	0.05	-9.5	30
1,3,5-Trimethylbenzene	A	5.00	4.68	1.310815	1.2275	0.05	-6.4	30
Vinyl Chloride	A	5.00	4.13	0.5346039	0.4418052	0.05	-17.4	30
m&p-Xylene	A	10.0	9.13	1.202997	1.098648	0.05	-8.7	30
o-Xylene	A	5.00	4.46	1.196773	1.06703	0.05	-10.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA TO-15

S001781-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	5.00	3.81	0.9919301	0.7550508	0.05	-23.9	30
Benzyl chloride	A	5.00	5.94	0.8499213	1.008833	0.05	18.7	30
Bromodichloromethane	A	5.00	4.08	0.6068467	0.495253	0.05	-18.4	30
Bromoform	A	5.00	5.71	0.4704248	0.5372184	0.05	14.2	30
Bromomethane	A	5.00	4.42	0.5137459	0.4541514	0.05	-11.6	30
2-Butanone (MEK)	A	5.00	4.27	1.576877	1.346581	0.05	-14.6	30
Carbon Tetrachloride	A	5.00	4.93	0.4740071	0.4672733	0.05	-1.4	30
Chlorobenzene	A	5.00	4.58	0.9691024	0.886886	0.05	-8.5	30
Chloroethane	A	5.00	4.47	0.2436821	0.2177515	0.05	-10.6	30
Chloroform	A	5.00	4.91	1.597242	1.569304	0.05	-1.7	30
Chloromethane	A	5.00	4.09	0.4507408	0.3687374	0.05	-18.2	30
Cyclohexane	A	5.00	4.12	0.4185998	0.3449922	0.05	-17.6	30
Dibromochloromethane	A	5.00	4.96	0.5702959	0.5662989	0.05	-0.7	30
1,2-Dibromoethane (EDB)	A	5.00	4.22	0.6212373	0.5240423	0.05	-15.6	30
1,2-Dichlorobenzene	A	5.00	4.84	0.824805	0.7985081	0.05	-3.2	30
1,3-Dichlorobenzene	A	5.00	4.96	0.8705477	0.8638952	0.05	-0.8	30
1,4-Dichlorobenzene	A	5.00	4.83	0.8910381	0.8604083	0.05	-3.4	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.25	1.567894	1.645461	0.05	4.9	30
1,1-Dichloroethane	A	5.00	4.60	1.49737	1.377541	0.05	-8.0	30
1,2-Dichloroethane	A	5.00	4.51	1.076954	0.9710606	0.05	-9.8	30
1,1-Dichloroethylene	A	5.00	4.35	1.211692	1.0545	0.05	-13.0	30
cis-1,2-Dichloroethylene	A	5.00	4.45	1.140275	1.014547	0.05	-11.0	30
trans-1,2-Dichloroethylene	A	5.00	4.30	1.208532	1.040362	0.05	-13.9	30
1,2-Dichloropropane	A	5.00	3.77	0.3723186	0.2804856	0.05	-24.7	30
cis-1,3-Dichloropropene	A	5.00	4.32	0.4910029	0.423808	0.05	-13.7	30
trans-1,3-Dichloropropene	A	5.00	3.88	0.4597172	0.3568581	0.05	-22.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.66	1.433844	1.335004	0.05	-6.9	30
1,4-Dioxane	A	5.00	4.13	0.2208977	0.1822913	0.05	-17.5	30
Ethanol	A	5.00	3.09	0.1637235	0.1010376	0.05	-38.3	50
Ethylbenzene	A	5.00	4.62	1.520996	1.405282	0.05	-7.6	30
Hexachlorobutadiene	A	5.00	4.67	0.538906	0.5036334	0.05	-6.5	30
Hexane	A	5.00	4.67	0.8183708	0.7644791	0.05	-6.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.75	2.018342	1.918473	0.05	-4.9	30
Methylene Chloride	A	5.00	4.63	0.8716831	0.8077303	0.05	-7.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	3.53	0.7454366	0.5261612	0.05	-29.4	30
Styrene	A	5.00	4.87	0.8778577	0.8557815	0.05	-2.5	30
1,1,2,2-Tetrachloroethane	A	5.00	4.30	0.9145309	0.7867789	0.05	-14.0	30
Tetrachloroethylene	A	5.00	4.61	0.5193439	0.4790769	0.05	-7.8	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S001781-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toluene	A	5.00	4.39	1.204989	1.058361	0.05	-12.2	30
1,2,4-Trichlorobenzene	A	5.00	4.36	0.5935905	0.5174558	0.05	-12.8	30
1,1,1-Trichloroethane	A	5.00	4.15	0.5355351	0.4440136	0.05	-17.1	30
1,1,2-Trichloroethane	A	5.00	4.36	0.4163953	0.36326	0.05	-12.8	30
Trichloroethylene	A	5.00	4.11	0.4043424	0.3325345	0.05	-17.8	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.67	1.24975	1.168025	0.05	-6.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.21	1.416589	1.477313	0.05	4.3	30
1,2,4-Trimethylbenzene	A	5.00	4.83	1.301536	1.257797	0.05	-3.4	30
1,3,5-Trimethylbenzene	A	5.00	4.85	1.310815	1.272662	0.05	-2.9	30
Vinyl Chloride	A	5.00	4.27	0.5346039	0.4561553	0.05	-14.7	30
m&p-Xylene	A	10.0	9.48	1.202997	1.141018	0.05	-5.2	30
o-Xylene	A	5.00	4.62	1.196773	1.105581	0.05	-7.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S001786-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethanol	A	5.00	3.82	0.1637235	0.1250692	0.05	-23.6	50

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Benzene	AIHA,FL,NJ,NY
Benzyl chloride	AIHA,FL,NJ,NY
Bromodichloromethane	AIHA,NJ
Bromoform	AIHA,NJ
Bromomethane	AIHA,FL,NJ,NY
2-Butanone (MEK)	AIHA,FL,NJ,NY
Carbon Tetrachloride	AIHA,FL,NJ,NY
Chlorobenzene	AIHA,FL,NJ,NY
Chloroethane	AIHA,FL,NJ,NY
Chloroform	AIHA,FL,NJ,NY
Chloromethane	AIHA,FL,NJ,NY
Cyclohexane	AIHA,NJ
Dibromochloromethane	AIHA
1,2-Dibromoethane (EDB)	AIHA,NJ
1,2-Dichlorobenzene	AIHA,FL,NJ,NY
1,3-Dichlorobenzene	AIHA,NJ
1,4-Dichlorobenzene	AIHA,FL,NJ,NY
Dichlorodifluoromethane (Freon 12)	AIHA
1,1-Dichloroethane	AIHA,FL,NJ,NY
1,2-Dichloroethane	AIHA,FL,NJ,NY
1,1-Dichloroethylene	AIHA,FL,NJ,NY
cis-1,2-Dichloroethylene	AIHA,FL,NY
trans-1,2-Dichloroethylene	AIHA,NJ,NY
1,2-Dichloropropane	AIHA,FL,NJ,NY
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY
trans-1,3-Dichloropropene	AIHA
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ
1,4-Dioxane	AIHA,NJ
Ethanol	AIHA
Ethylbenzene	AIHA,FL,NJ,NY
Hexachlorobutadiene	AIHA,NJ,NY
Hexane	AIHA,FL,NJ,NY
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY
Methylene Chloride	AIHA,FL,NJ,NY
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY
Styrene	AIHA,FL,NJ,NY
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY
Tetrachloroethylene	AIHA,FL,NJ,NY
Toluene	AIHA,FL,NJ,NY
1,2,4-Trichlorobenzene	AIHA,NJ,NY
1,1,1-Trichloroethane	AIHA,FL,NJ,NY
1,1,2-Trichloroethane	AIHA,FL,NJ,NY
Trichloroethylene	AIHA,FL,NJ,NY
Trichlorofluoromethane (Freon 11)	AIHA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY
1,2,4-Trimethylbenzene	AIHA,NJ
1,3,5-Trimethylbenzene	AIHA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
2,2,4-Trimethylpentane	AIHA,NJ
Vinyl Chloride	AIHA,FL,NJ,NY
m&p-Xylene	AIHA,FL,NJ,NY
o-Xylene	AIHA,FL,NJ,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012



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Attention: MARK FLUSCHKE
Project Location: PUREX - MITCHELL FIELD - NY
Sampled By: JUST WHIPPLE

Proposal Provided? (For Billing purposes)
☐ yes ☐ no
proposal date _____

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax #: _____
Email: Mark.Flushke@arcadis-us.com
Format: ☒ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER _____

Field ID	Sample Description	Media	Lab #	Date Time	Date Time	Total Minutes Sampled	Flow Rate M ³ /Min. or L / Min.	Volume Liters or M ³	Matrix Code*
	PMF-UPS-S501	S	01	2/8/12 6:25	2/8/12 1:05			6L	SS
	PMF-UPS-IA01		02	2/8/12 6:25	2/8/12 1:05				IA
	PMF-UPS-S502		03	2/8/12 6:35	2/8/12 1:50				SS
	PMF-UPS-IA02		04	2/8/12 6:35	2/8/12 1:50				IA
	PMF-UPS-S503		05	2/8/12 6:45	2/8/12 1:59				SS
	PMF-UPS-IA03		06	2/8/12 6:45	2/8/12 1:59				IA
	PMF-UPS-S504		07	2/8/12 6:55	2/8/12 1:50				SS
	PMF-UPS-IA04		08	2/8/12 6:55	2/8/12 1:51				IA

Laboratory Comments: _____

CLIENT COMMENTS: _____

Relinquished By: (signature) [Signature] Date/Time: 2/9/12 9:34

Received By: (signature) [Signature] Date/Time: 2/9/12 9:34

Relinquished By: (signature) [Signature] Date/Time: 2/9/12 10:52

Received By: (signature) [Signature] Date/Time: 2/9/12 10:52

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other RUSH

Regulations: _____
Data Enhancement/RCP? ☐ Y ☒ N
Enhanced Data Package ☐ Y ☒ N
(Surcharge Applies)
Required Detection Limits: _____
Other: _____

Matrix Code: _____ Media Codes: _____

SG= SOIL GAS
IA= INDOOR AIR
AMB= AMBIENT
SS= SUB SLAB
D= DUP
BL= BLANK
O= other

S=summa can
TB=tedlar bag
P=PUF
T=tube
F=filter
C=cassette
O= Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

ANALYSIS REQUESTED

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Company Name: 12B0323
Address: 560 PAX 6

Telephone: ()
Project # 00726785.0000
Client PO # 1

Attention: 560 PAX 6

Project Location: 560 PAX 6

Sampled By: 560 PAX 6

Proposal Provided? (For Billing purposes)

☐ yes ☐ no proposal date

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: Matt.Fusco@contestlabs.com

Format: ☒ EXCEL ☒ PDF ☐ GIS KEY ☐ OTHER

Date Sampled ONLY USE WHEN USING PUMPS

Field ID	Sample Description	Media	Lab #	Date Time	Stop Time	Total Minutes Sampled	Flow Rate M ³ /Min. or L / Min.	Volume Liters or M ³	Matrix Code*
PMF-UPS-D401	S		09	2/8/12 700	2/8/12 1515			6L	AMB X
PMF-MSBA-SS-05			10	2/8/12 847	2/8/12 1641				SS
PMF-MSBA-IA-05			11	2/8/12 847	2/8/12 1641				IA
PMF-MSBA-SS-06			12	2/8/12 900	2/8/12 1702				SS
PMF-MSBA-IA-06			13	2/8/12 900	2/8/12 1702				IA
PMF-MSBA-SS-07			14	2/8/12 910	2/8/12 1717				SS
PMF-MSBA-IA-07			15	2/8/12 910	2/8/12 1717				IA
PMF-MSBA-SS-08			16	2/8/12 930	2/8/12 1735				SS

Laboratory Comments:

CLIENT COMMENTS:

ANALYSIS REQUESTED	"Hg"	Please fill out completely, sign, date and retain the yellow copy for your record.
		Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.
		Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>2/9/12 909</u>	Turnaround ** ☐ 7-Day ☐ 10-Day ☒ Other <u>RUSH</u>	Regulations: Data Enhancement/RCP? ☐ Y ☒ N Enhanced Data Package ☐ Y ☒ N (Surcharge Applies) Required Detection Limits: _____	*Matrix Code: SG= SOIL GAS IA= INDOOR AIR AMB= AMBIENT SS= SUB SLAB D= DUP BL= BLANK O= other	**Media Codes: S= summa can TB= tedlar bag P= PUF T= tube F= filter C= cassette O= Other
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>2/9/12 1052</u>	*Approval Required ☐ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 4-Day	Other: _____		

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Company Name: ARCADIS-US, INC.
Address: 100 ASCORPMENT DR SUITE 100
MIDDLEBOROUGH, MA 01937

Telephone: ()

Project # 00726785.0000

Client PO # 4

Attention:

Project Location: SEE PAGE 1

Sampled By:

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

Field ID	Sample Description	Media	Lab #	Date Time	Stop Date Time	Total Minutes Sampled	Flow Rate M ³ /Min. or L / Min.	Volume Liters or M ³	Matrix Code*
PMF-MSBA-IA-08	S		17	2/18/12 9:30	2/18/12 1:35			6L	IA
PMF-MSBA-DA-02			18	2/18/12 9:35	2/18/12 1:44				AMB
PMF-CONC-SS-09			19	2/18/12 1:45	2/18/12 1:54				SS
PMF-CONC-IA-09			20	2/18/12 1:45	2/18/12 1:54				IA
PMF-CONC-SS-10			21	2/18/12 8:20	2/18/12 1:52				SS
PMF-CONC-IA-10			22	2/18/12 8:20	2/18/12 1:52				IA
PMF-MSBA-SS-11			23	2/18/12 9:30	2/18/12 1:35				SS
PMF-MSBA-IA-11			24	2/18/12 9:30	2/18/12 1:35				IA

Laboratory Comments:

CLIENT COMMENTS:

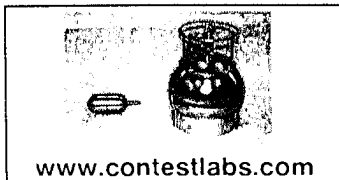
• 2 EXTRA/UNUSED CANISTERS, NOT LABELED-DON'T RUN.

Relinquished by: (signature)	Date/Time: 2/19/12 9:58	Turnaround ** ☐ 7-Day ☐ 10-Day ☒ Other <u>500</u> RUSH *	Regulations: _____	*Matrix Code: SG= SOIL GAS IA= INDOOR AIR AMB= AMBIENT SS= SUB SLAB D= DUP BL= BLANK O= other	**Media Codes: S= summa can TB= tedlar bag P= PUF T= tube F= filter C= cassette O= Other
Received by: (signature)	Date/Time: 2/19/12 10:02	☐ *24-Hr ☐ *48-Hr ☐ *72-Hr ☐ *4-Day	Data Enhancement/RCP? ☐ Y ☒ N Enhanced Data Package ☐ Y ☒ N (Surcharge Applies)	Required Detection Limits: _____	
Received by: (signature)	Date/Time: 2/19/12	*Approval Required	Other: _____		

ANALYSIS REQUESTED	" Hg	Please fill out completely, sign, date and retain the yellow copy for your record
Requested	Requested	Requested

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.	Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.
--	--

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.



39 Spruce St. 79
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: Arcadi's RECEIVED BY: PB DATE: 2/9/12

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No

2) Does the chain agree with the samples? ☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition? ☒ Yes ☐ No

If not, explain:

4) Are there any samples "On Hold"? Yes ☒ No ☐ Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes ☒ No ☐

Who was notified _____ Date _____ Time _____

6) Location where samples are stored:

Air Lab

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Air Media received at Con-Test

		# of Containers	Types (Size, Duration)
Air Sampling Media	Summa Cans	26	6 Lit
	Tedlar Bags		
	Tubes		
Flow Controllers	Regulators	26	8 hr
	Restrictors		
Extras	Tubing		
	Other		

Unused Summas: 1818 1073 1198 1115
1783 1473 1263 1606 1619 1855
1333 1334 1665 1657 1613 1389
1481 1640 1820 1125 1849

Unused Regulators: 3236 3071 3397
3243 3275 3238 3019 3191 3120
3244 3158 3176 3013 3192 3069
3087 3264 3246 3326 3250 3267
3289 3038 3350 3162 3221

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1209 } unused
1049 }

Table 1.
USEPA Method TO-15 Analyte List

	Compound	CAS Number
1	1,1,1-Trichloroethane	71-55-6
2	1,1,2,2-Tetrachloroethane	79-34-5
3	1,1,2-Trichloro -1,2,2-trifluoroethane (FREON 113)	76-13-1
4	1,1,2-Trichloroethane	79-00-5
5	1,1-Dichloroethane	75-35-3
6	1,1-Dichloroethene	75-35-4
7	1,2,4-Trichlorobenzene	120-82-1
8	1,2,4-Trimethylbenzene	95-63-6
9	1,2-Dibromoethane	106-93-4
10	1,2-Dichlorobenzene	95-50-1
11	1,2-Dichloroethane	107-06-2
12	1,2-Dichloropropane	78-87-5
13	1,3,5-Trimethylbenzene	108-67-8
14	1,4-Dichlorobenzene	106-46-7
15	1,4-Dioxane	123-91-1
16	2-Butanone (MEK)	78-93-3
17	1,3-Dichlorobenzene	541-73-1
18	2,2,4-Trimethylpentane	540-84-1
19	Benzene	71-43-2
20	Benzyl Chloride	100-44-7
21	Bromodichloromethane	75-27-4
22	Bromoform	75-25-2
23	Bromomethane	74-83-9
24	Carbon tetrachloride	56-23-5
25	Chlorobenzene	108-90-7
26	Chloroethane	75-00-3
27	Chloroform	67-66-3
28	Cyclohexane	110-82-7
29	Chloromethane	74-87-3
30	cis-1,2-Dichloroethene	156-59-2
31	cis-1,3-Dichloropropene	10061-01-5
32	Dibromochloromethane	124-48-1
33	Dichlorodifluoromethane	75-71-8
34	Ethanol	64-17-5
35	Ethylbenzene	100-41-4
36	FREON 114 (1,2-Dichlorotetrafluoroethane)	76-14-2
37	n-Hexane	110-54-3
38	Hexachloro-1,3-butadiene	87-68-3
39	4-Methyl-2-pentanone (MIBK)	108-10-1
40	Methyl t-Butyl Ether	1634-04-4
41	Methylene Chloride	75-09-2
42	Styrene	100-42-5
43	t-Butyl Alcohol (TBA)	75-65-0
44	Tetrachloroethene	127-18-4
45	Toluene	108-88-3
46	m,p-Xylenes	108-38-3,106-42-3
47	o-Xylenes	95-47-6
48	Trans-1,2-Dichloroethene	156-60-5
49	Trans-1,3-Dichloropropene	10061-02-6
50	Trichloroethene	79-01-6
51	Trichlorofluoromethane (FREON 11)	75-69-4
52	Vinyl Chloride	75-01-4



Air Sampling Media Certificate of Analysis

Date Analyzed: 11/4/2011 **Batch #:** 11B400

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs: BC1389 _____

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 11/8/2011 **Batch #:** 11B0403

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs: BC1606 _____

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 12/26/2011 **Batch #:** 11B0451

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs: BC1783 _____

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 12/26/2011 **Batch #:** 11B0452

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs: BC1657 _____

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
0.37	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 12/27/2011 **Batch #:** 11B0453

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs:

BC1665	BC1613	

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 12/27/2011 **Batch #:** 11B0454

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs: BC1333 _____

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/12/2012 **Batch #:** 12CC0012

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs: <u>BC1198</u>	<u>BC1619</u>	<u>BC1663</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/17/2012 **Batch #:** 12CC0017

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs:

BC1334	BC1640	

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/23/2012 **Batch #:** 12CC0025

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs:	<u>BC1473</u> <u>BC1849</u> _____ _____ _____	<u>BC1824</u> _____ _____ _____ _____	<u>BC1125</u> _____ _____ _____ _____
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Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/23/2012 **Batch #:** 12CC0026

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs:

BC1614	BC1115	BC1855

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/24/2012 **Batch #:** 12CC0028

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs: BC1481 _____

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/30/2012 **Batch #:** 12CC0032

Certification Type: *Batch Certified* ☒ *Individual Certified* ☐

Media Type: *Summa Canister* ☒ *Flow Controllers* ☐

Media IDs:	BC1818 BC1073 _____ _____ _____	BC1263 _____ _____ _____ _____	BC1820 _____ _____ _____ _____
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Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes: _____

Analyst Initials/Date: WSD 2/15/12

AIR

SAMPLE DATA

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS01

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-01 File ID: G021213.D
 Sampled: 02/08/12 14:05 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 09:27
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.18	0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform		0.036	0.10	
74-87-3	Chloromethane	0.17	0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene	0.17	0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.57	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS01

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-01 File ID: G021213.D
 Sampled: 02/08/12 14:05 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 09:27
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol	11	0.47	4.0	
100-41-4	Ethylbenzene	0.18	0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene	0.12	0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	3.7	0.030	0.10	
108-88-3	Toluene	0.67	0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.038	0.20	
71-55-6	1,1,1-Trichloroethane		0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	0.41	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.10	0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS01

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-01	File ID:	G021213.D		
Sampled:	02/08/12 14:05	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 09:27		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	0.44	0.052	0.20	
95-47-6	o-Xylene	0.17	0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021213.D
 Acq On : 13 Feb 2012 9:27 am
 Sample : 12B0323-01 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 13:30:16 2012

Vial: 6
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

98

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	299059	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	924487	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.430	117	846162	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	478991	8.31	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.88%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.542	85	16833	0.287	PPBV	Qvalue 99
4) CHLOROMETHANE	4.703	50	1462	0.087	PPBV	94
10) ACROLEIN	5.894	56	630	0.090	PPBV	# 53
11) ACETONE	6.024	43	145270	4.995	PPBV	89
12) TRICHLOROFLUOROMETHANE	6.163	101	9671	0.207	PPBV	99
13) ETHANOL	5.595	45	33377	5.453	PPBV	100
15) METHYLENE CHLORIDE	6.823	49	6523	0.200	PPBV	81
16) FREON 113	7.084	101	2664	0.050	PPBV	99
17) CARBON DISULFIDE	7.118	76	14029	0.169	PPBV	96
21) IPA	6.285	45	28742	0.939	PPBV	65
22) 2-BUTANONE(MEK)	8.273	43	8707	0.148	PPBV	95
25) HEXANE	8.855	41	2942	0.096	PPBV	92
32) BENZENE	10.338	78	10428	0.091	PPBV	98
46) TOLUENE	13.379	91	42826	0.336	PPBV	99
50) TETRACHLOROETHENE	14.683	166	102282	1.862	PPBV	97
52) ETHYLBENZENE	15.960	91	14174	0.088	PPBV	95
53) M/P-XYLENE	16.169	91	28138	0.221	PPBV	98
55) STYRENE	16.638	104	5763	0.062	PPBV	98
56) O-XYLENE	16.786	91	10938	0.086	PPBV	100
65) 1,2-DICHLOROBENZENE	20.105	146	7615	0.087	PPBV	96
66) 1,2,4-TRICHLOROBENZENE	22.801	180	6613	0.105	PPBV	99

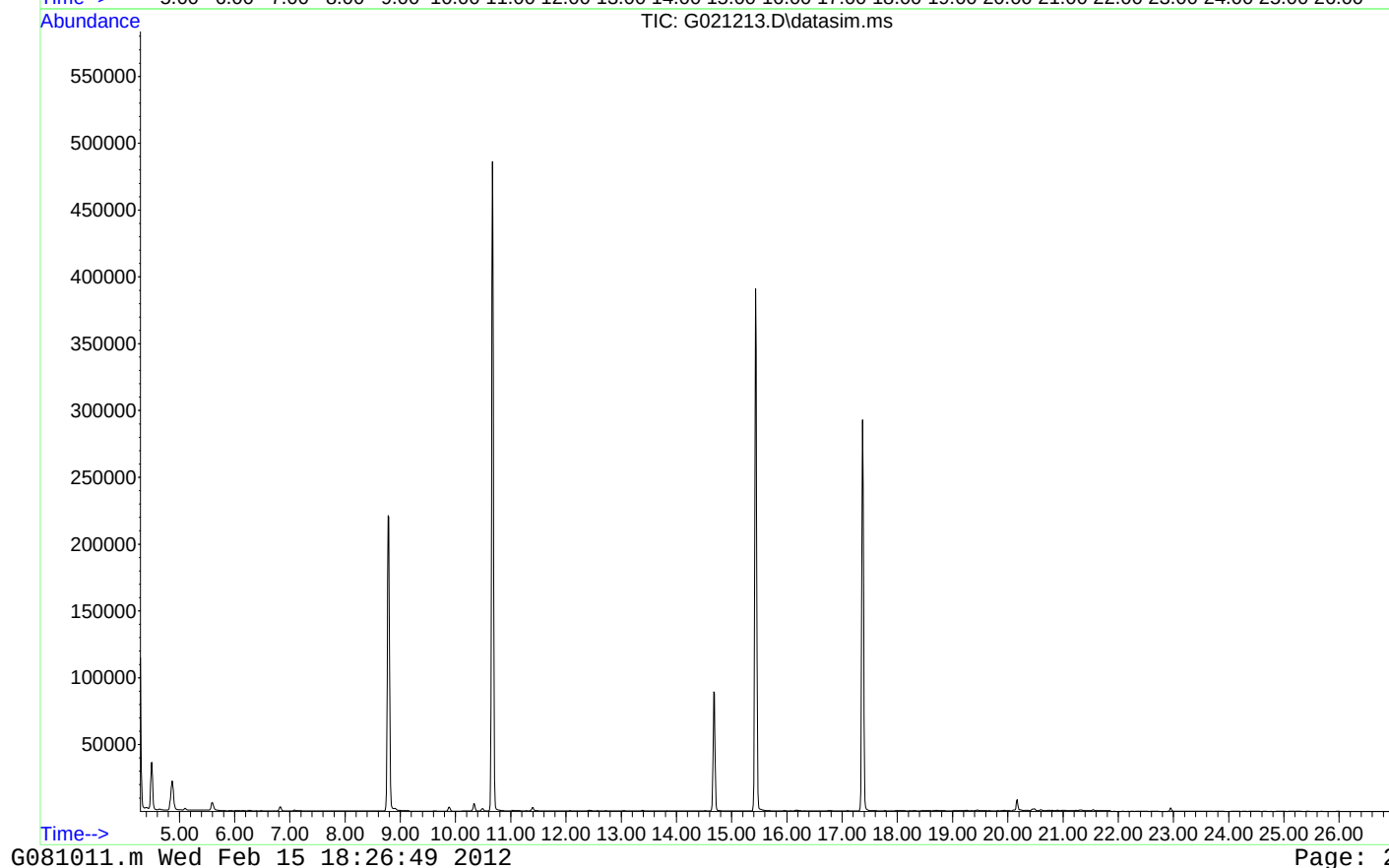
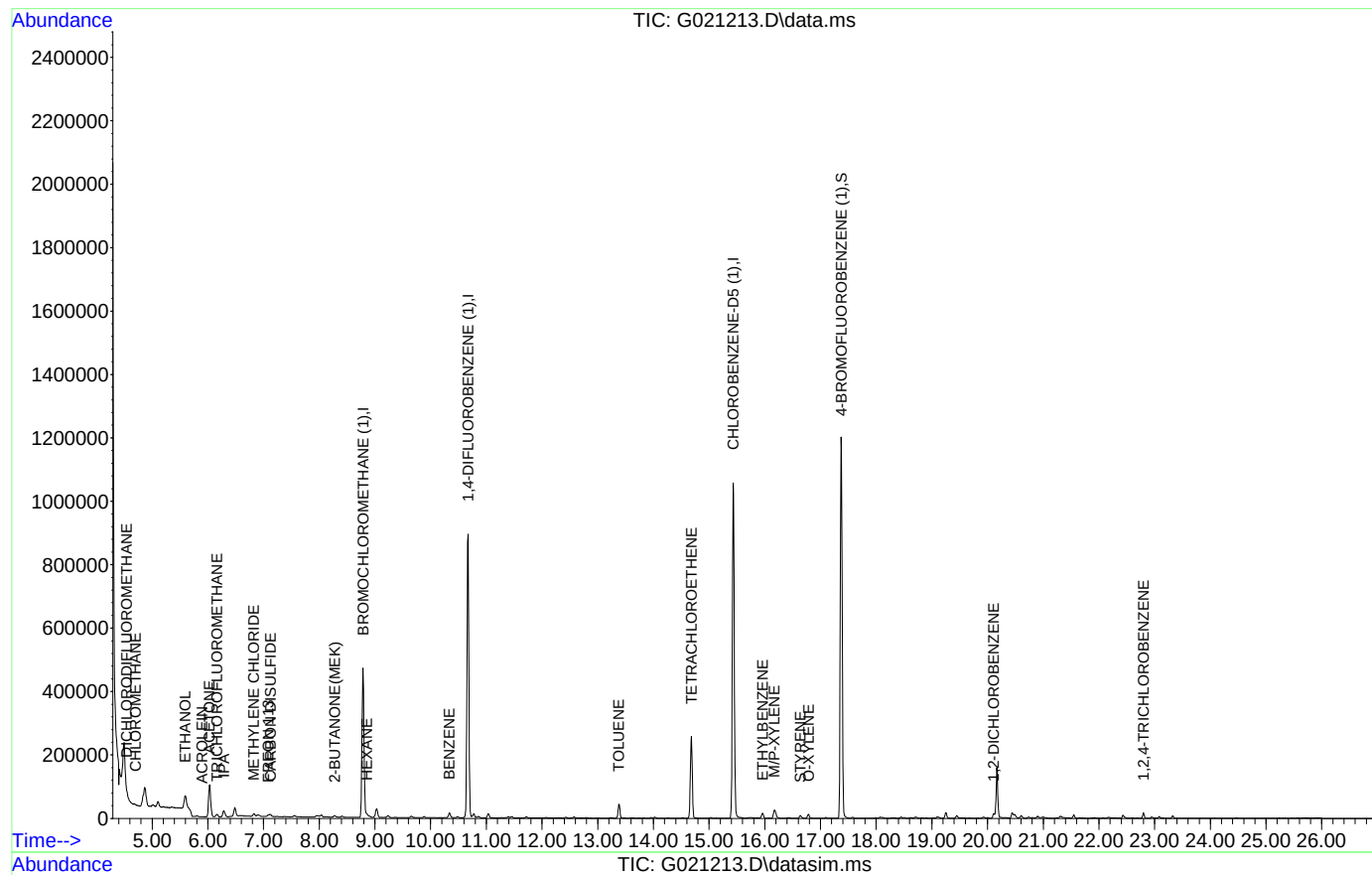
(#) = qualifier out of range (m) = manual integration (+) = signals summed

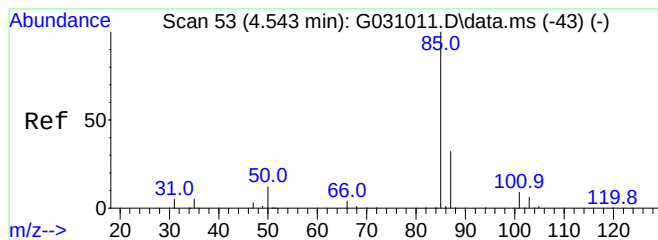
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Acq On : 13 Feb 2012 9:27 am
Sample : 12B0323-01 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 13:30:16 2012

Vial: 6
Operator: TPH
Inst : SYSG
Multiplr: 1.00

99

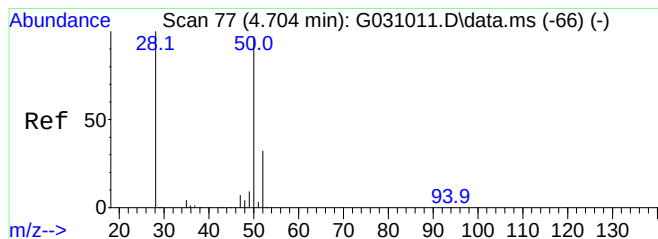
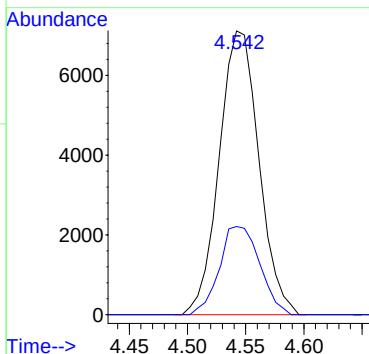
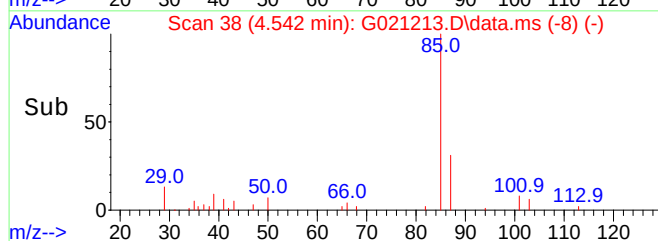
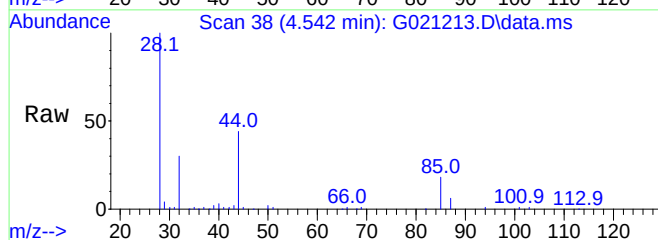
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





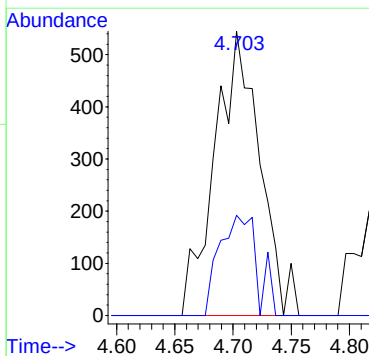
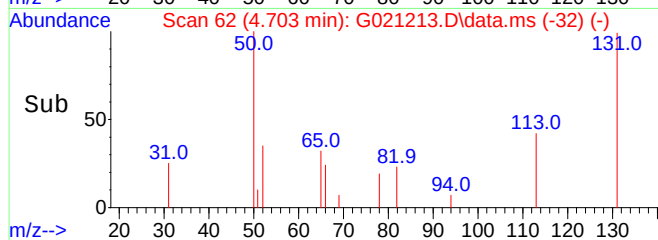
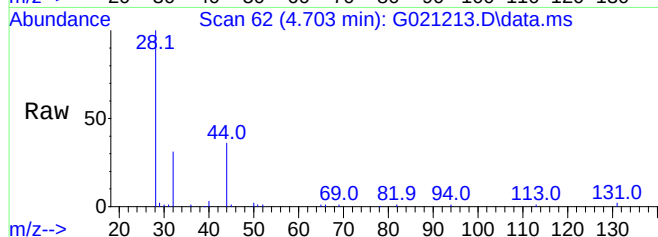
#3
DICHLORODIFLUOROMETHANE
Concen: 0.29 PPBV
RT: 4.542 min Scan# 38
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

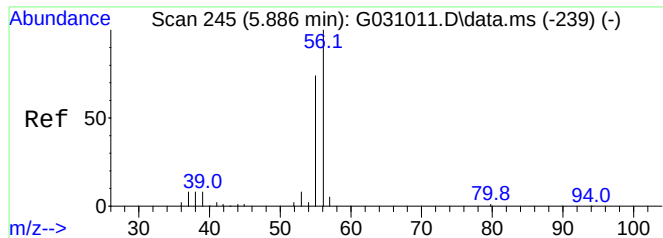
Tgt Ion: 85 Resp: 16833
Ion Ratio Lower Upper
85 100
87 31.6 12.1 52.1



#4
CHLOROMETHANE
Concen: 0.09 PPBV
RT: 4.703 min Scan# 62
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

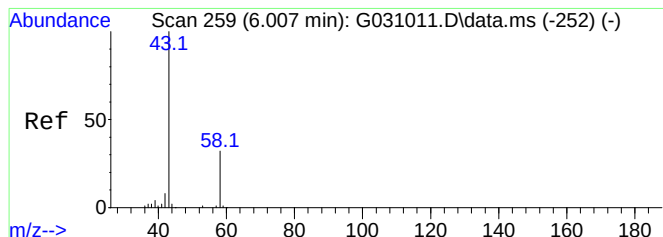
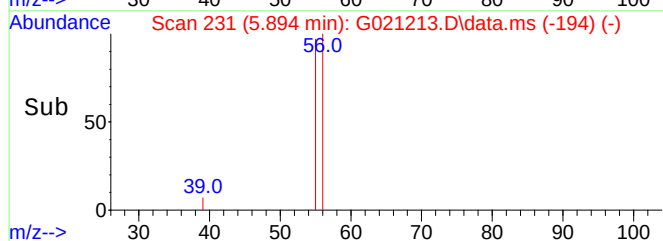
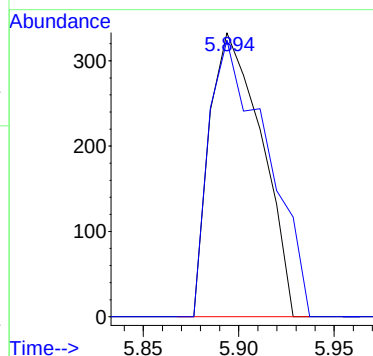
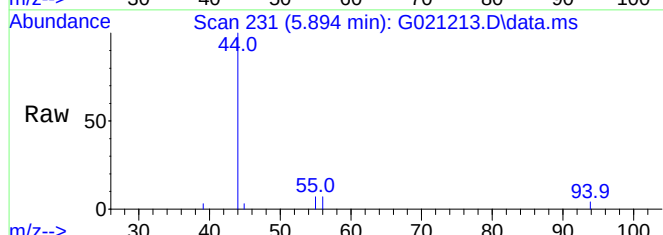
Tgt Ion: 50 Resp: 1462
Ion Ratio Lower Upper
50 100
52 29.5 12.8 52.8





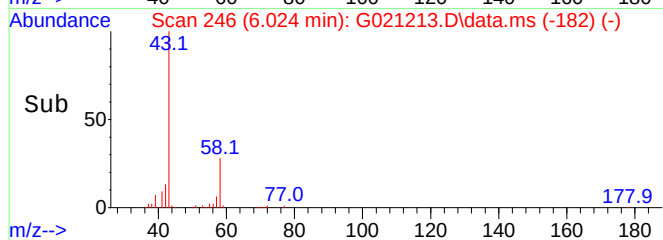
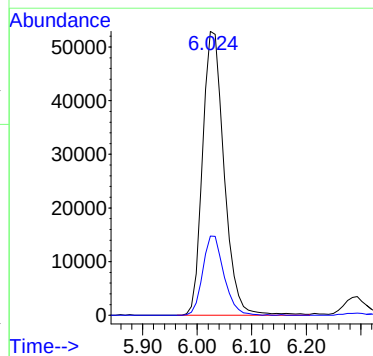
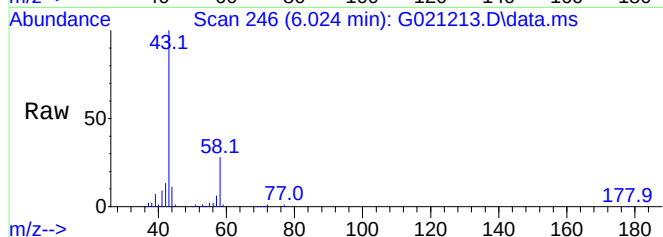
#10
ACROLEIN
Concen: 0.09 PPBV
RT: 5.894 min Scan# 231
Delta R.T. 0.009 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

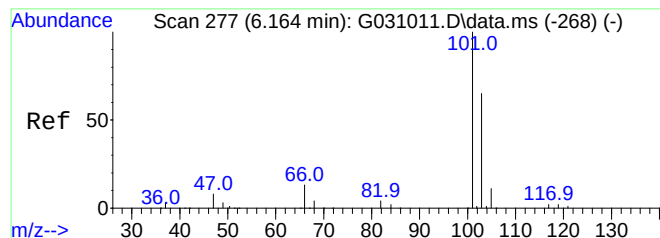
Tgt Ion: 56 Resp: 630
Ion Ratio Lower Upper
56 100
55 109.0 56.1 84.1#



#11
ACETONE
Concen: 4.99 PPBV
RT: 6.024 min Scan# 246
Delta R.T. 0.017 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

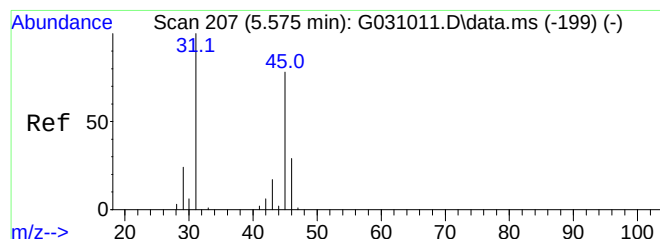
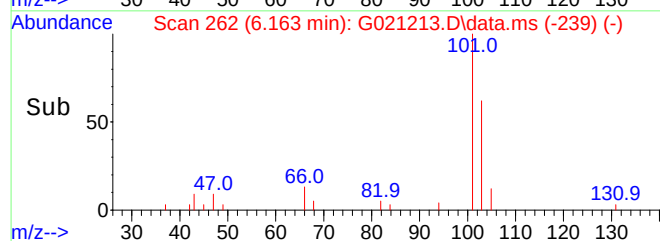
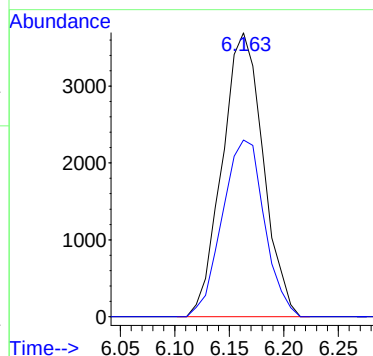
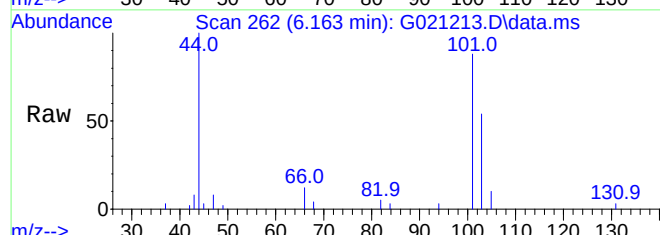
Tgt Ion: 43 Resp: 145270
Ion Ratio Lower Upper
43 100
58 27.5 13.9 53.9





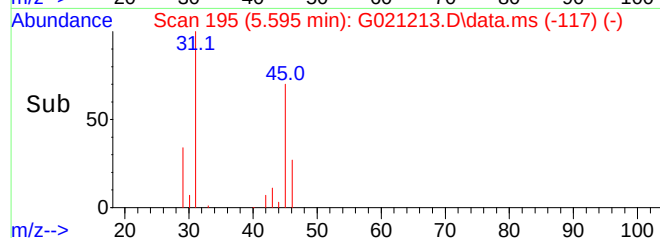
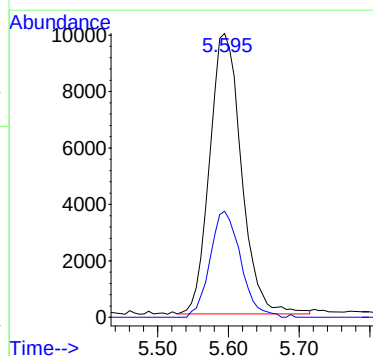
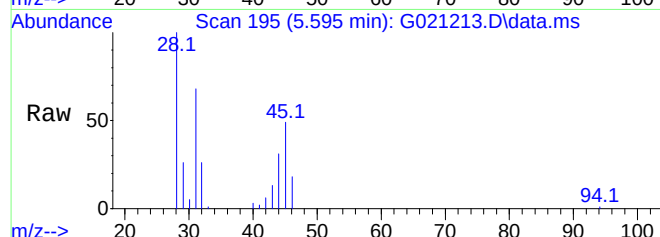
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.21 PPBV
 RT: 6.163 min Scan# 262
 Delta R.T. -0.001 min
 Lab File: G021213.D
 Acq: 13 Feb 2012 9:27 am

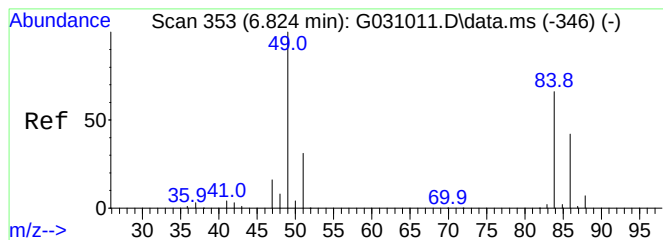
Tgt Ion: 101 Resp: 9671
 Ion Ratio Lower Upper
 101 100
 103 63.9 44.8 84.8



#13
 ETHANOL
 Concen: 5.45 PPBV
 RT: 5.595 min Scan# 195
 Delta R.T. 0.021 min
 Lab File: G021213.D
 Acq: 13 Feb 2012 9:27 am

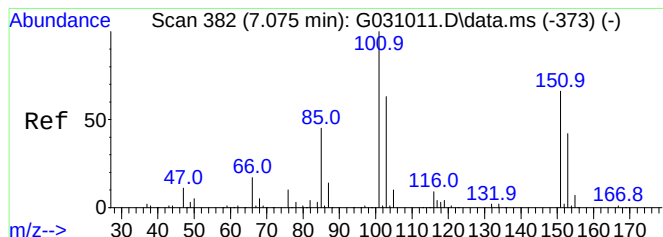
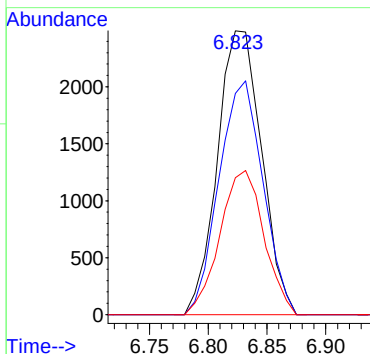
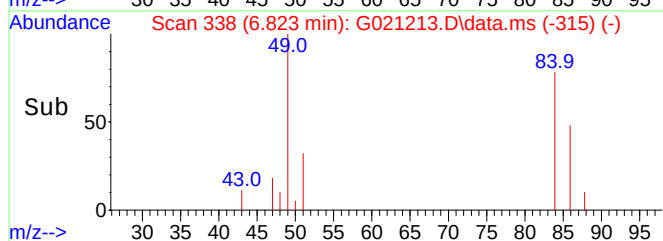
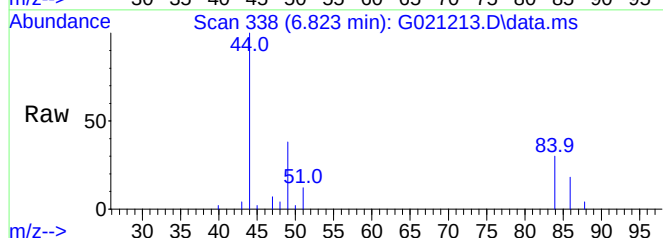
Tgt Ion: 45 Resp: 33377
 Ion Ratio Lower Upper
 45 100
 46 33.8 14.0 54.0





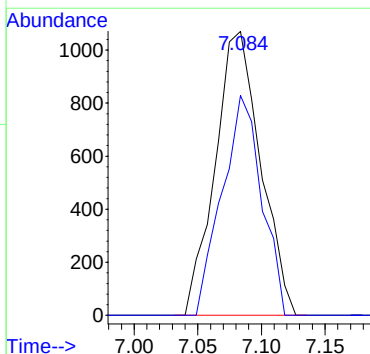
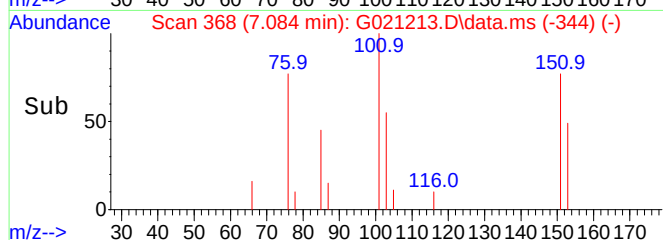
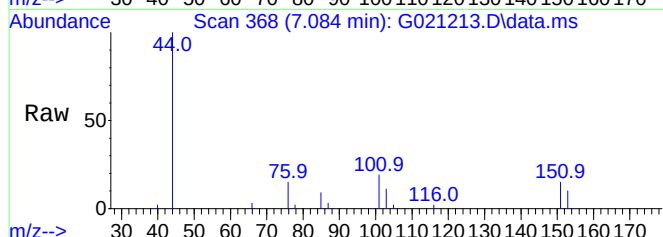
#15
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

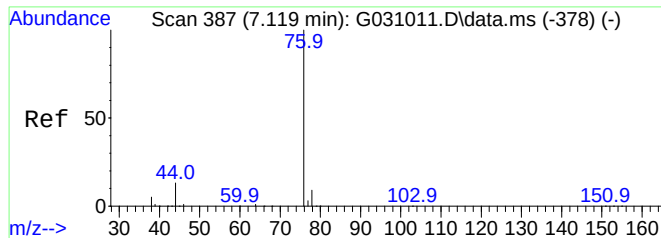
Tgt Ion: 49 Resp: 6523
Ion Ratio Lower Upper
49 100
84 81.9 45.2 85.2
86 50.6 21.4 61.4



#16
FREON 113
Concen: 0.05 PPBV
RT: 7.084 min Scan# 368
Delta R.T. 0.008 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

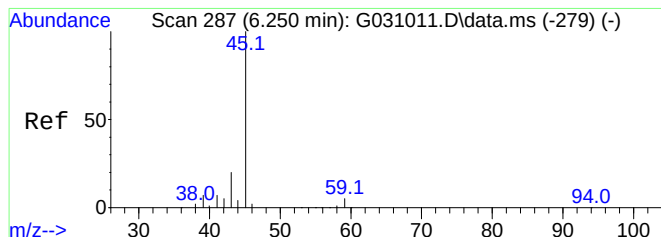
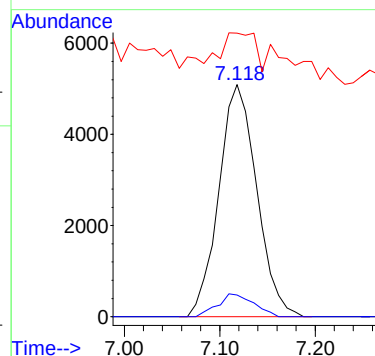
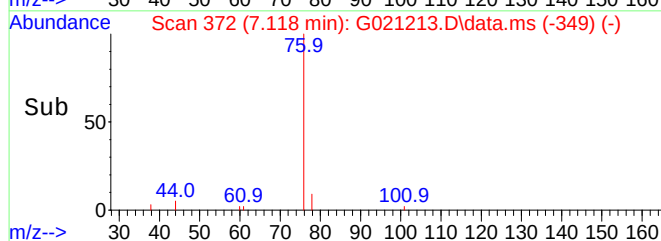
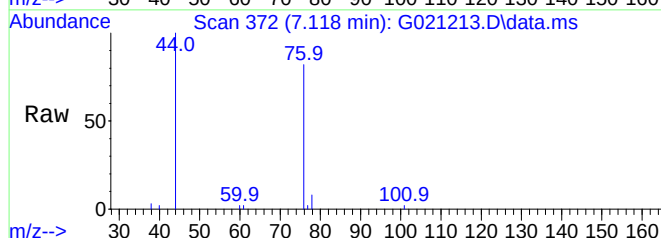
Tgt Ion: 101 Resp: 2664
Ion Ratio Lower Upper
101 100
151 67.3 46.3 86.3





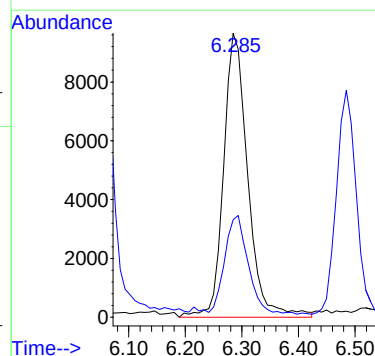
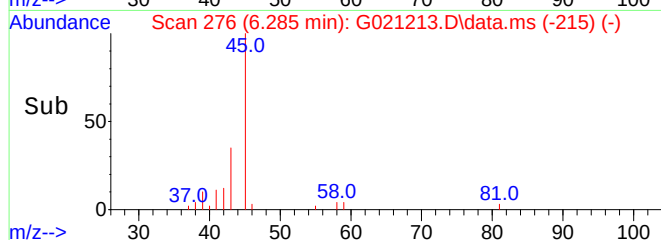
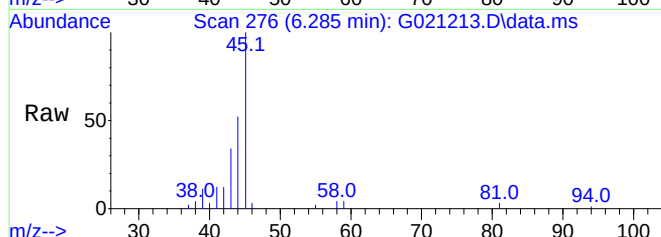
#17
CARBON DISULFIDE
Concen: 0.17 PPBV
RT: 7.118 min Scan# 372
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

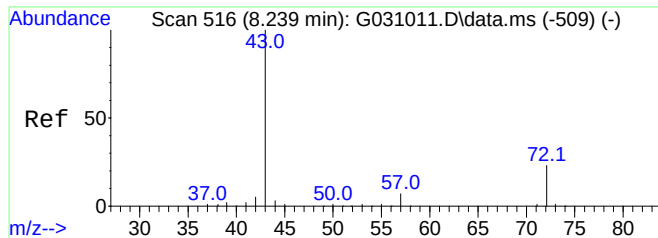
Tgt Ion: 76 Resp: 14029
Ion Ratio Lower Upper
76 100
78 9.4 0.0 30.7
44 15.1 0.0 33.4



#21
IPA
Concen: 0.94 PPBV
RT: 6.285 min Scan# 276
Delta R.T. 0.035 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

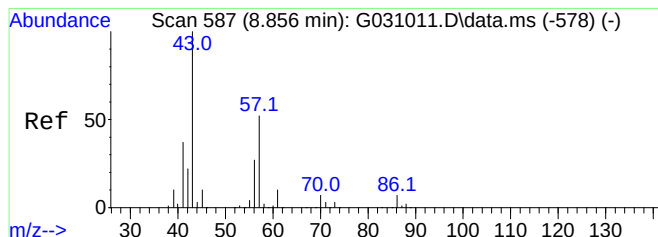
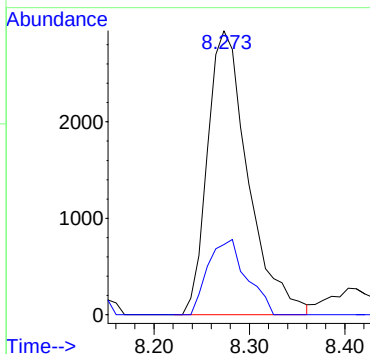
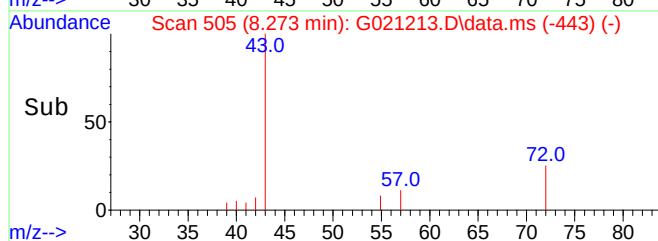
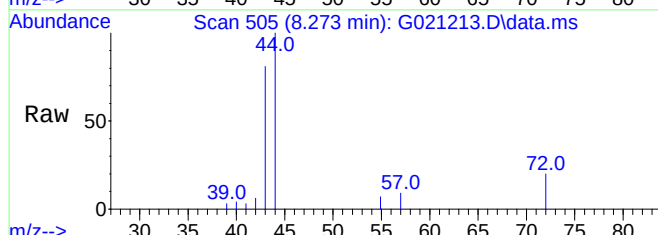
Tgt Ion: 45 Resp: 28742
Ion Ratio Lower Upper
45 100
43 37.0 0.6 40.6





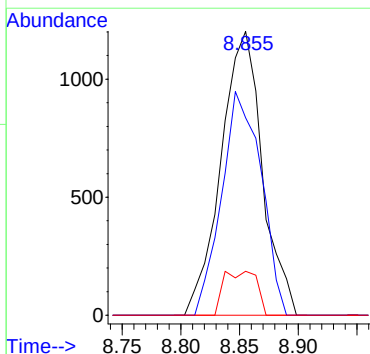
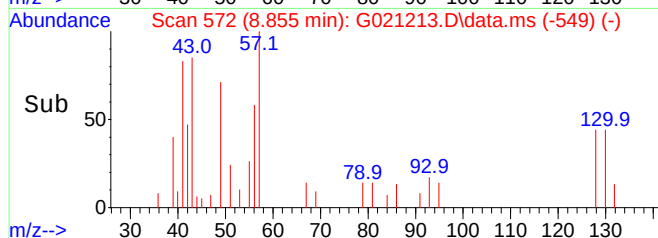
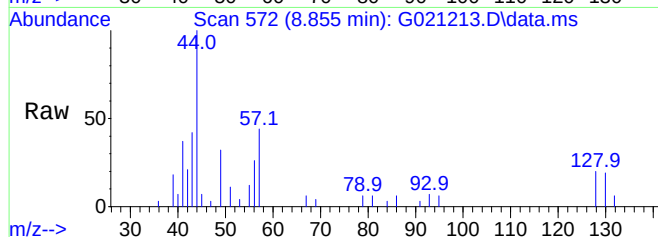
#22
2-BUTANONE (MEK)
Concen: 0.15 PPBV
RT: 8.273 min Scan# 505
Delta R.T. 0.034 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

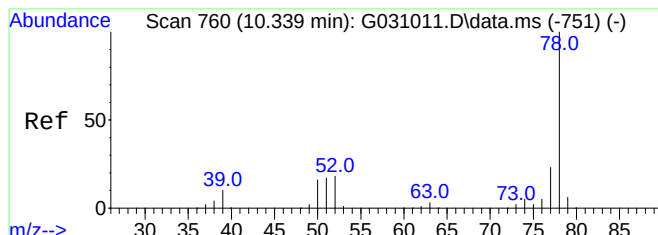
Tgt Ion: 43 Resp: 8707
Ion Ratio Lower Upper
43 100
72 25.0 2.6 42.6



#25
HEXANE
Concen: 0.10 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

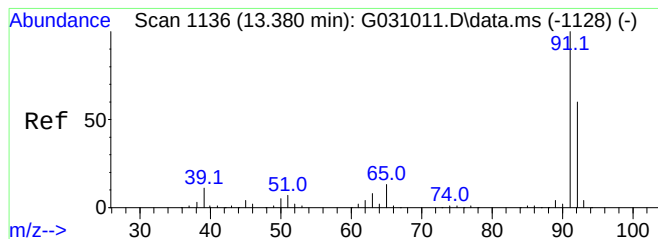
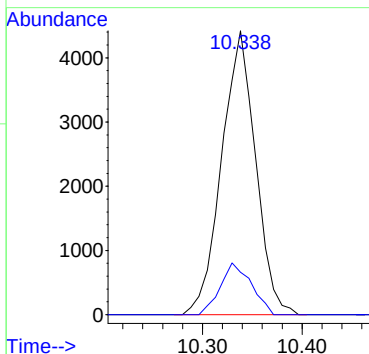
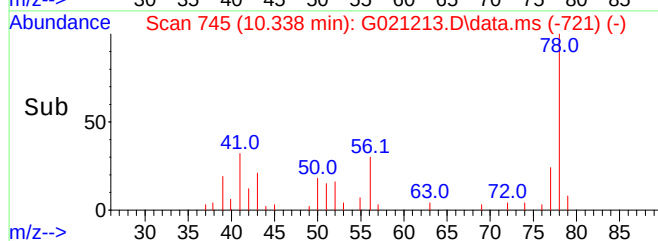
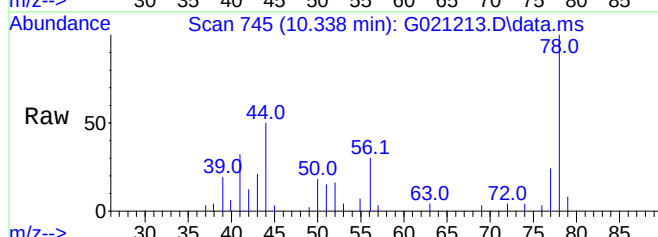
Tgt Ion: 41 Resp: 2942
Ion Ratio Lower Upper
41 100
56 75.2 50.8 90.8
86 12.4 9.6 29.6





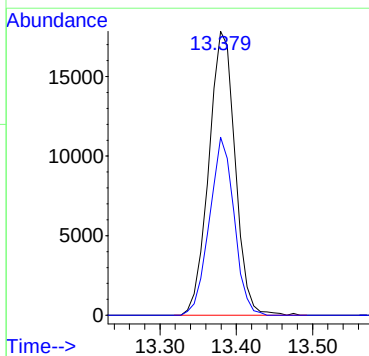
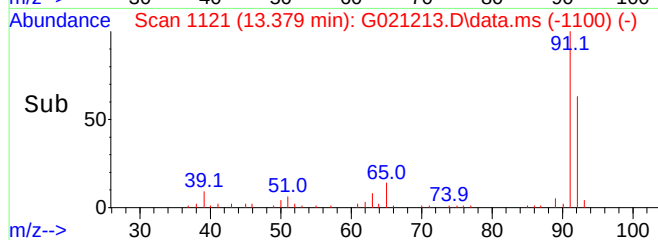
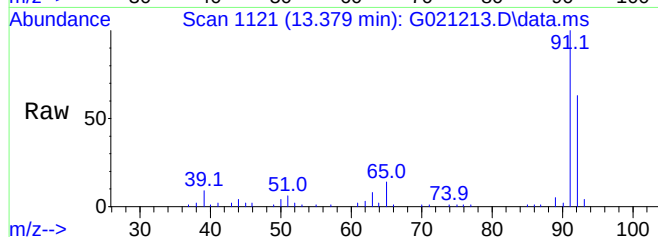
#32
BENZENE
Concen: 0.09 PPBV
RT: 10.338 min Scan# 745
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

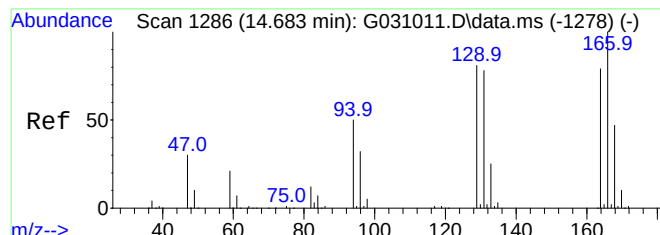
Tgt Ion: 78 Resp: 10428
Ion Ratio Lower Upper
78 100
51 16.8 0.0 37.6



#46
TOLUENE
Concen: 0.34 PPBV
RT: 13.379 min Scan# 1121
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

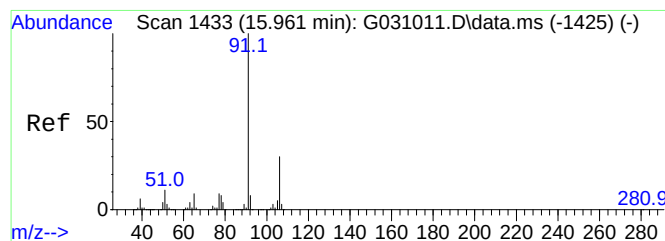
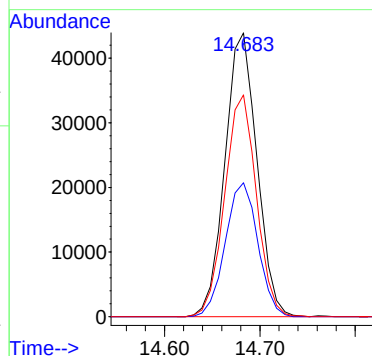
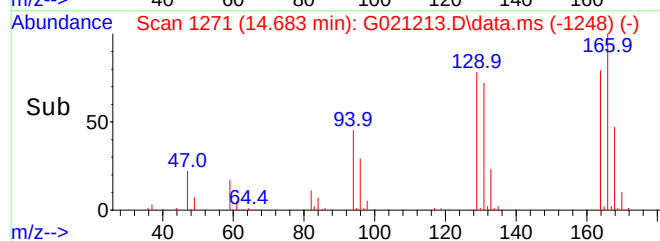
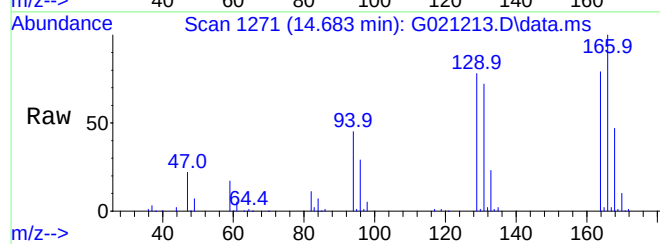
Tgt Ion: 91 Resp: 42826
Ion Ratio Lower Upper
91 100
92 58.7 39.7 79.7





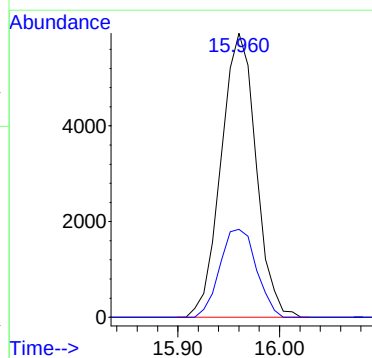
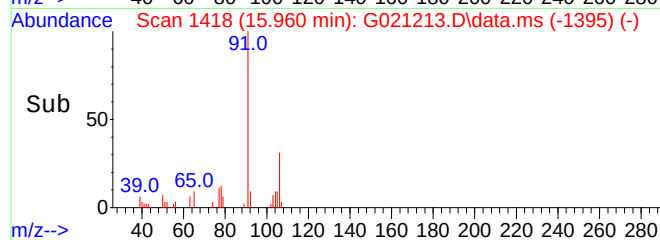
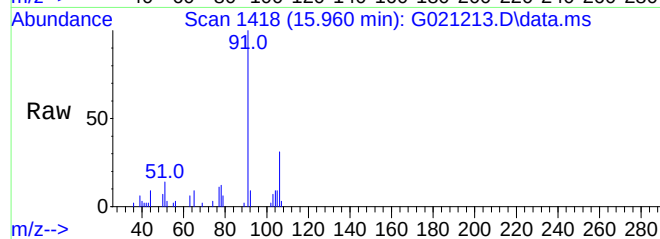
#50
TETRACHLOROETHENE
Concen: 1.86 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

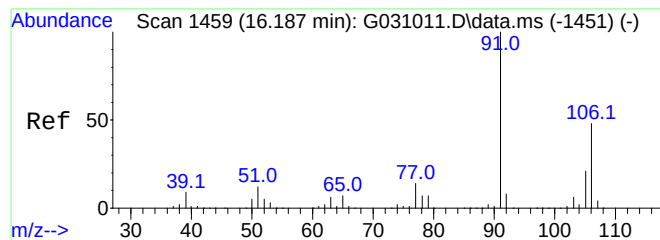
Tgt Ion: 166 Resp: 102282
Ion Ratio Lower Upper
166 100
168 47.9 27.0 67.0
129 77.3 60.6 100.6



#52
ETHYLBENZENE
Concen: 0.09 PPBV
RT: 15.960 min Scan# 1418
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

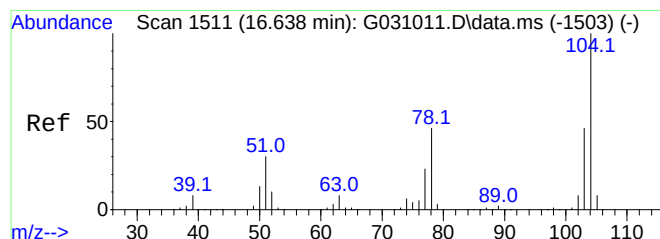
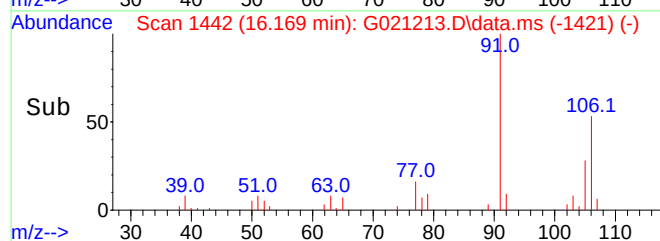
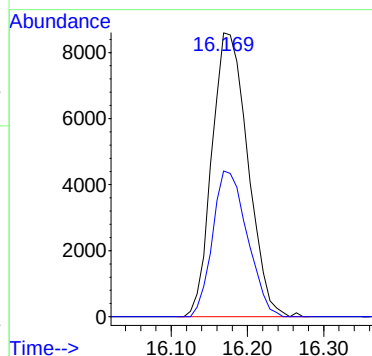
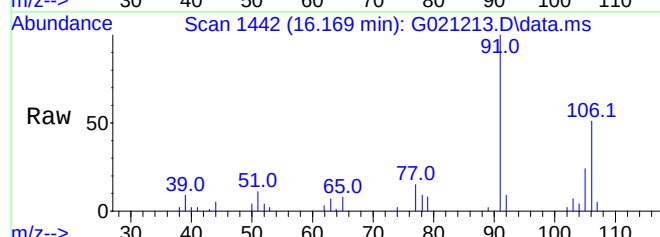
Tgt Ion: 91 Resp: 14174
Ion Ratio Lower Upper
91 100
106 32.5 10.0 50.0





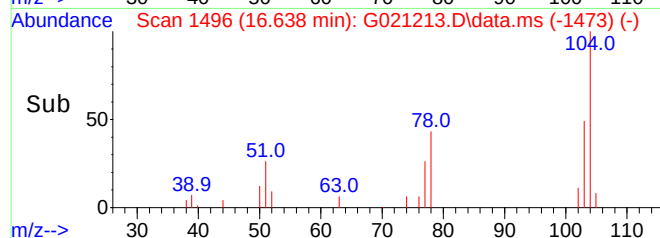
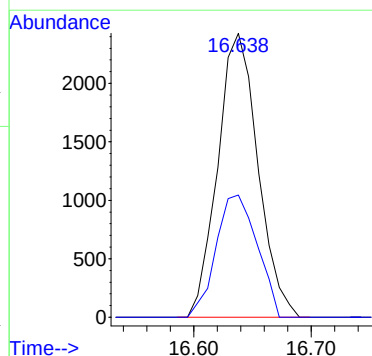
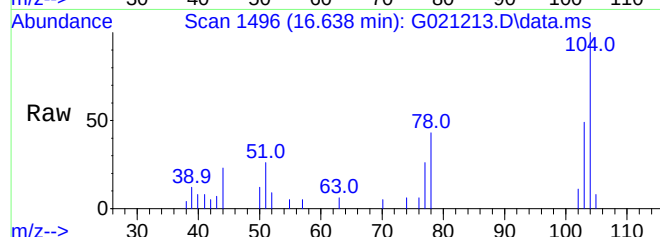
#53
M/P-XYLENE
Concen: 0.22 PPBV
RT: 16.169 min Scan# 1442
Delta R.T. -0.018 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

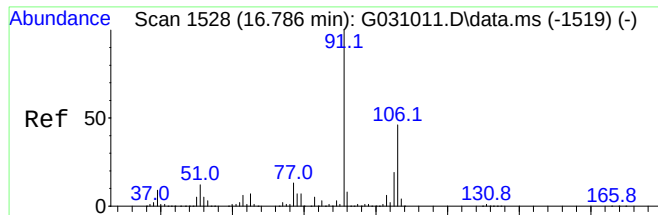
Tgt Ion: 91 Resp: 28138
Ion Ratio Lower Upper
91 100
106 49.7 28.3 68.3



#55
STYRENE
Concen: 0.06 PPBV
RT: 16.638 min Scan# 1496
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

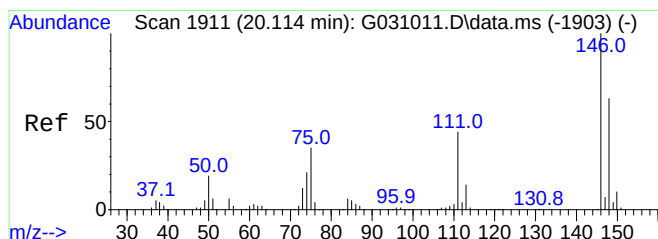
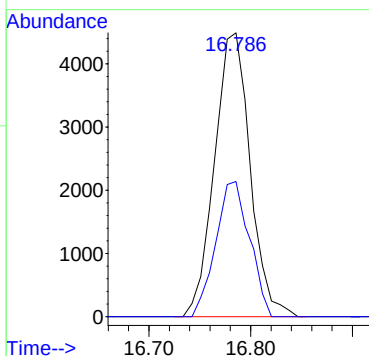
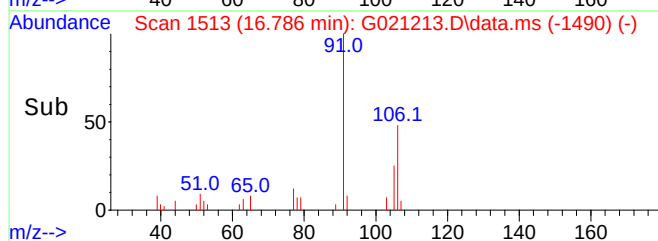
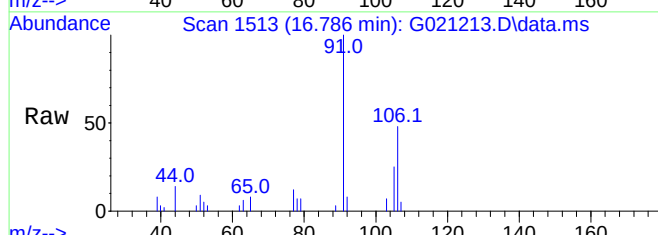
Tgt Ion: 104 Resp: 5763
Ion Ratio Lower Upper
104 100
78 44.1 25.1 65.1





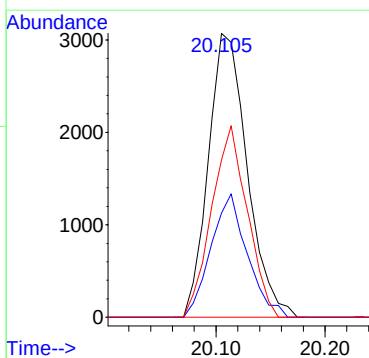
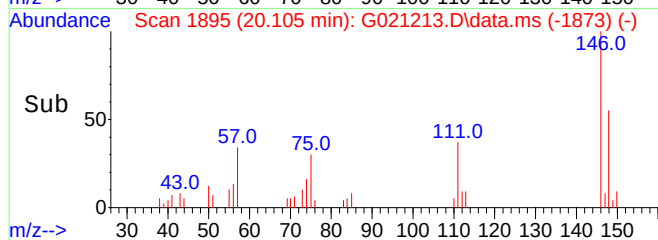
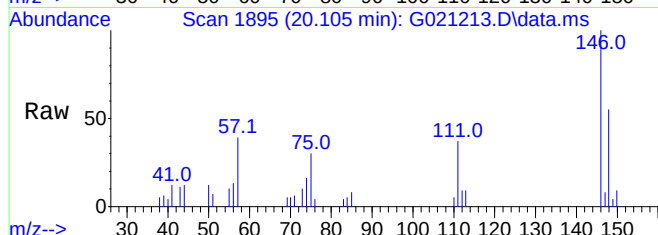
#56
O-XYLENE
Concen: 0.09 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.001 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

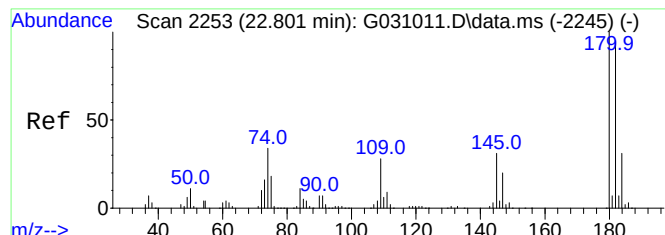
Tgt Ion: 91 Resp: 10938
Ion Ratio Lower Upper
91 100
106 45.3 25.5 65.5



#65
1,2-DICHLOROBENZENE
Concen: 0.09 PPBV
RT: 20.105 min Scan# 1895
Delta R.T. -0.009 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

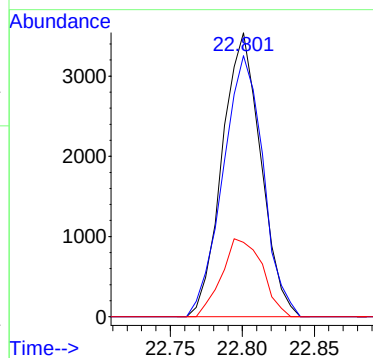
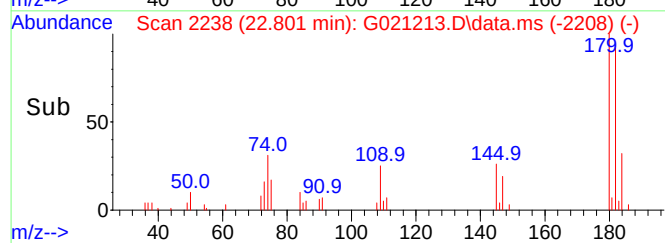
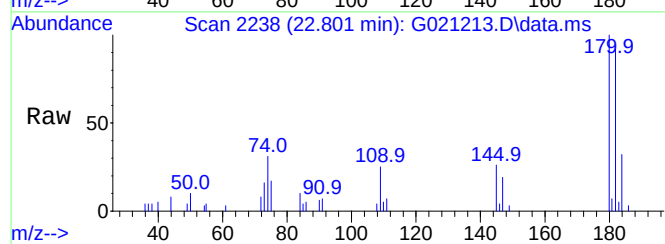
Tgt Ion: 146 Resp: 7615
Ion Ratio Lower Upper
146 100
111 40.7 24.8 64.8
148 62.0 43.2 83.2





#66
1,2,4-TRICHLOROBENZENE
Concen: 0.11 PPBV
RT: 22.801 min Scan# 2238
Delta R.T. -0.000 min
Lab File: G021213.D
Acq: 13 Feb 2012 9:27 am

Tgt Ion:180 Resp: 6613
Ion Ratio Lower Upper
180 100
182 95.8 75.4 115.4
145 28.9 10.3 50.3



Data File : C:\msdchem\1\data\G021212\G021213.D
 Acq On : 13 Feb 2012 9:27 am
 Sample : 12B0323-01 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 12:57:23 2012

Vial: 6
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	924115	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.430	54	170463	8.00	PPBV	-0.01

System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.368	95	631814	9.80	PPBV	-0.05
Spiked Amount	8.000	Range	70 - 130	Recovery	=	122.50%

Target Compounds	Qvalue

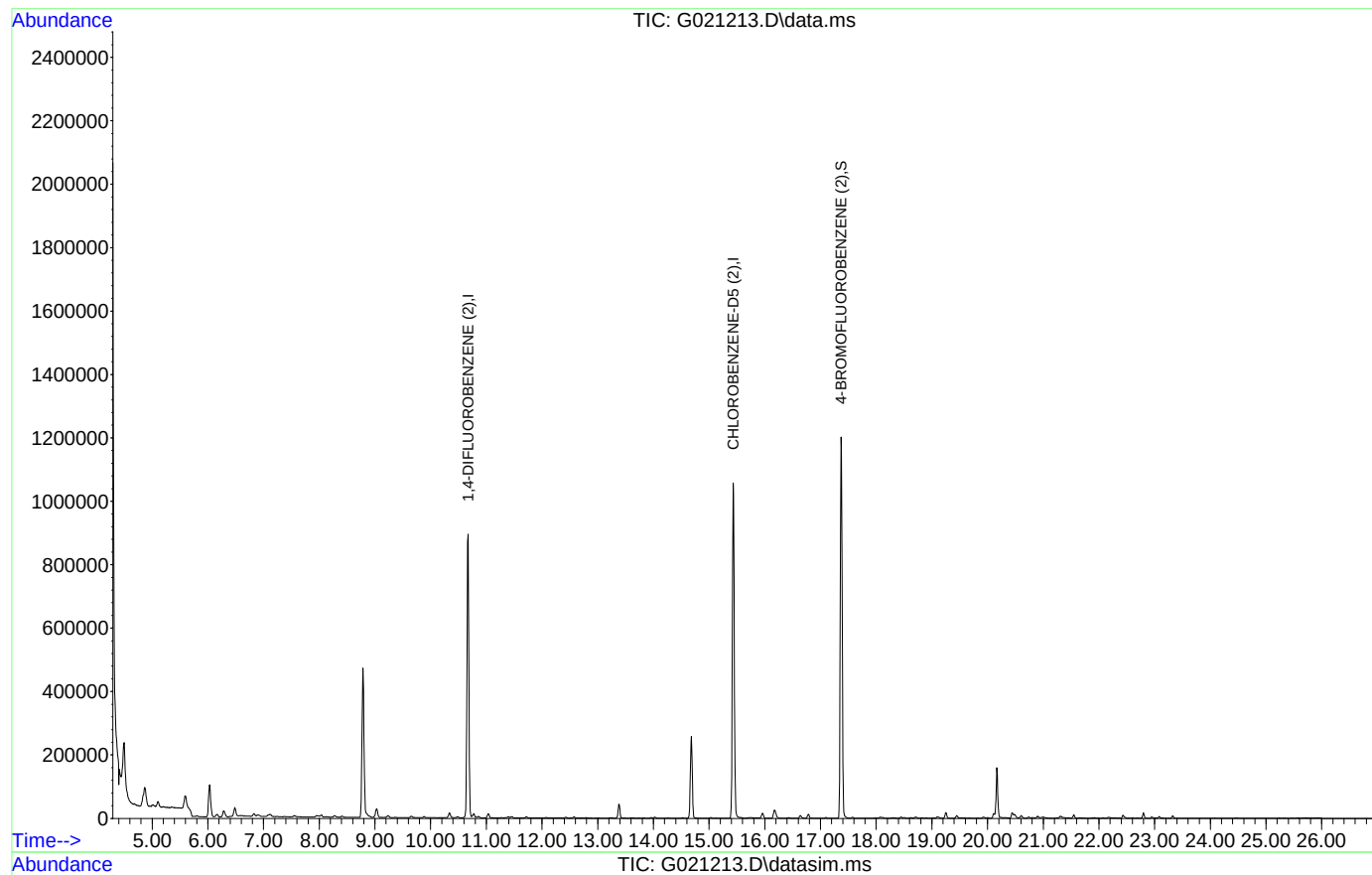
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021213.D
Acq On : 13 Feb 2012 9:27 am
Sample : 12B0323-01 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:57:23 2012

Vial: 6
Operator: TPH
Inst : SYSG
Multiplr: 1.00

112

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA01

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-02 File ID: G021412.D
 Sampled: 02/08/12 14:05 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 19:16
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	1.0	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.071	0.0098	0.035	
108-90-7	Chlorobenzene	0.042	0.029	0.035	
75-00-3	Chloroethane	0.10	0.020	0.035	
67-66-3	Chloroform	0.055	0.013	0.035	
74-87-3	Chloromethane	1.0	0.018	0.035	
110-82-7	Cyclohexane	0.38	0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.52	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane	0.041	0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA01

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-02 File ID: G021412.D
 Sampled: 02/08/12 14:05 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 19:16
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	12	0.17	1.4	
100-41-4	Ethylbenzene	0.52	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.38	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.16	0.011	0.035	
100-42-5	Styrene	0.19	0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene	0.072	0.011	0.035	
108-88-3	Toluene	3.7	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene	0.094	0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.33	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.080	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene	0.41	0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene	0.11	0.011	0.035	
540-84-1	2,2,4-Trimethylpentane	0.37	0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA01

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-02	File ID:	G021412.D		
Sampled:	02/08/12 14:05	Prepared:	02/14/12 10:43	Analyzed:	02/14/12 19:16		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	2.0	0.018	0.070	
95-47-6	o-Xylene	0.68	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021412.D
 Acq On : 14 Feb 2012 7:16 pm
 Sample : 12B0323-02 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:46:00 2012

Vial: 4
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	296608	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	922156	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	848247	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	478688	8.29	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.62%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	4.549	85	42855	0.737	PPBV	99
4) CHLOROMETHANE	4.703	50	23937	1.432	PPBV	100
9) CHLOROETHANE	5.454	64	1338	0.148	PPBV	91
10) ACROLEIN	5.885	56	5025	0.722	PPBV	92
11) ACETONE	5.998	43	1067669	37.013	PPBV	89
12) TRICHLOROFLUOROMETHANE	6.163	101	21607	0.466	PPBV	100
13) ETHANOL	5.574	45	106938	17.617	PPBV	98
15) METHYLENE CHLORIDE	6.823	49	17485	0.541	PPBV	78
16) FREON 113	7.084	101	6007	0.114	PPBV	87
17) CARBON DISULFIDE	7.127	76	4360	0.053	PPBV	73
21) IPA	6.250	45	197946	6.522	PPBV	77
22) 2-BUTANONE(MEK)	8.247	43	52877	0.904	PPBV	86
25) HEXANE	8.855	41	34971	1.153	PPBV	94
26) ETHYL ACETATE	8.855	61	7554	0.731	PPBV	93
27) CHLOROFORM	8.916	83	4590	0.078	PPBV	98
29) 1,2-DICHLOROETHANE	9.624	62	2351	0.059	PPBV	# 88
32) BENZENE	10.338	78	162254	1.419	PPBV	95
33) CARBON TETRACHLORIDE	10.488	117	5517	0.101	PPBV	98
34) CYCLOHEXANE	10.629	84	26004	0.539	PPBV	# 79
37) TRICHLOROETHENE	11.397	95	6265	0.134	PPBV	96
40) HEPTANE	11.720	57	19288	0.562	PPBV	97
41) MIBK	12.388	43	19165	0.223	PPBV	84
46) TOLUENE	13.379	91	678297	5.309	PPBV	100
50) TETRACHLOROETHENE	14.683	166	5623	0.102	PPBV	92
51) CHLOROBENZENE	15.491	112	6143m	0.060	PPBV	
52) ETHYLBENZENE	15.960	91	120001	0.744	PPBV	98
53) M/P-XYLENE	16.177	91	370711	2.906	PPBV	95
55) STYRENE	16.638	104	25334	0.272	PPBV	97
56) O-XYLENE	16.786	91	122677	0.967	PPBV	96
59) 4-ETHYLTOLUENE	18.506	105	25092	0.149	PPBV	97
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	21296	0.153	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	79857	0.579	PPBV	97
67) NAPHTHALENE	22.952	128	18564	0.102	PPBV	96

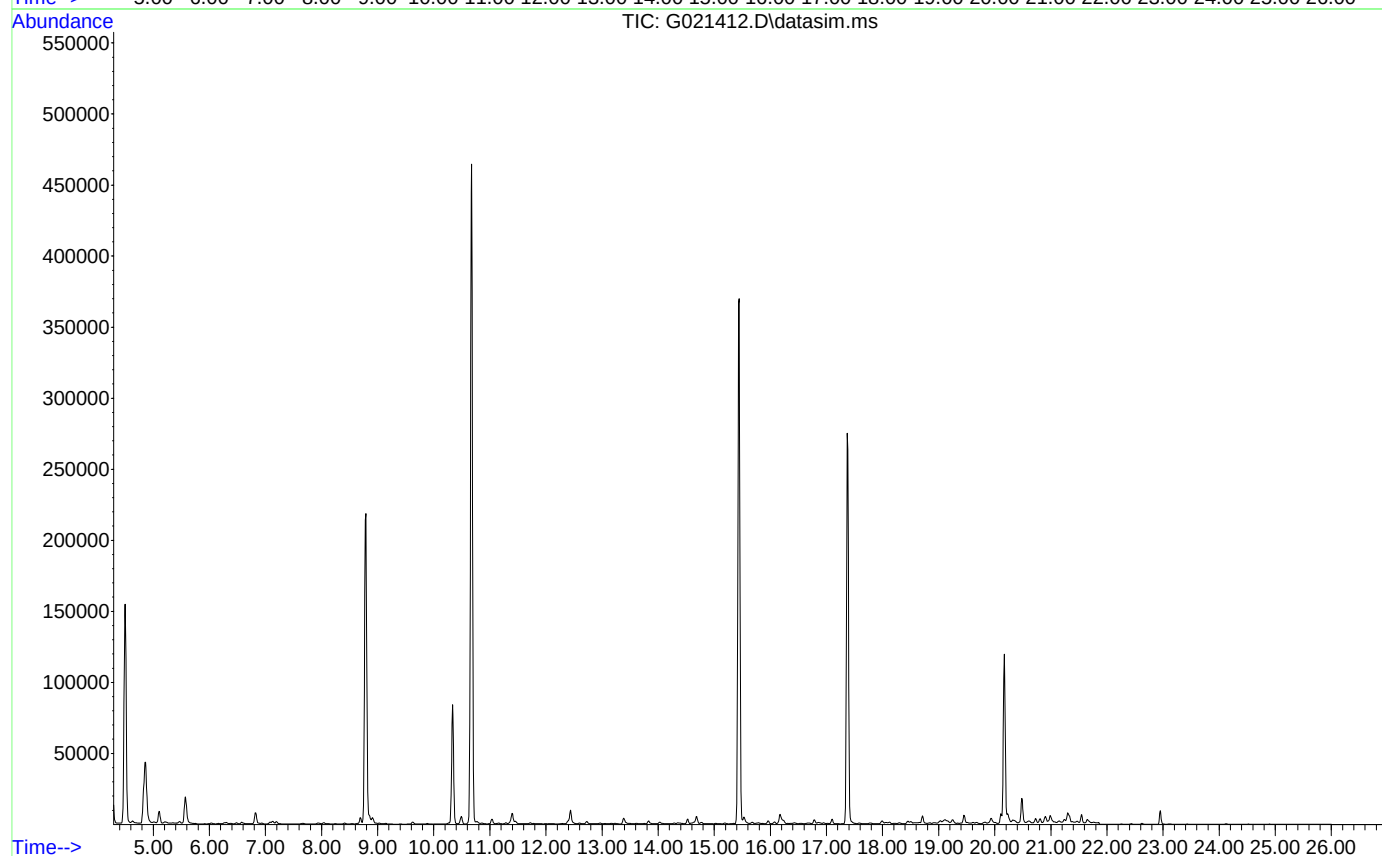
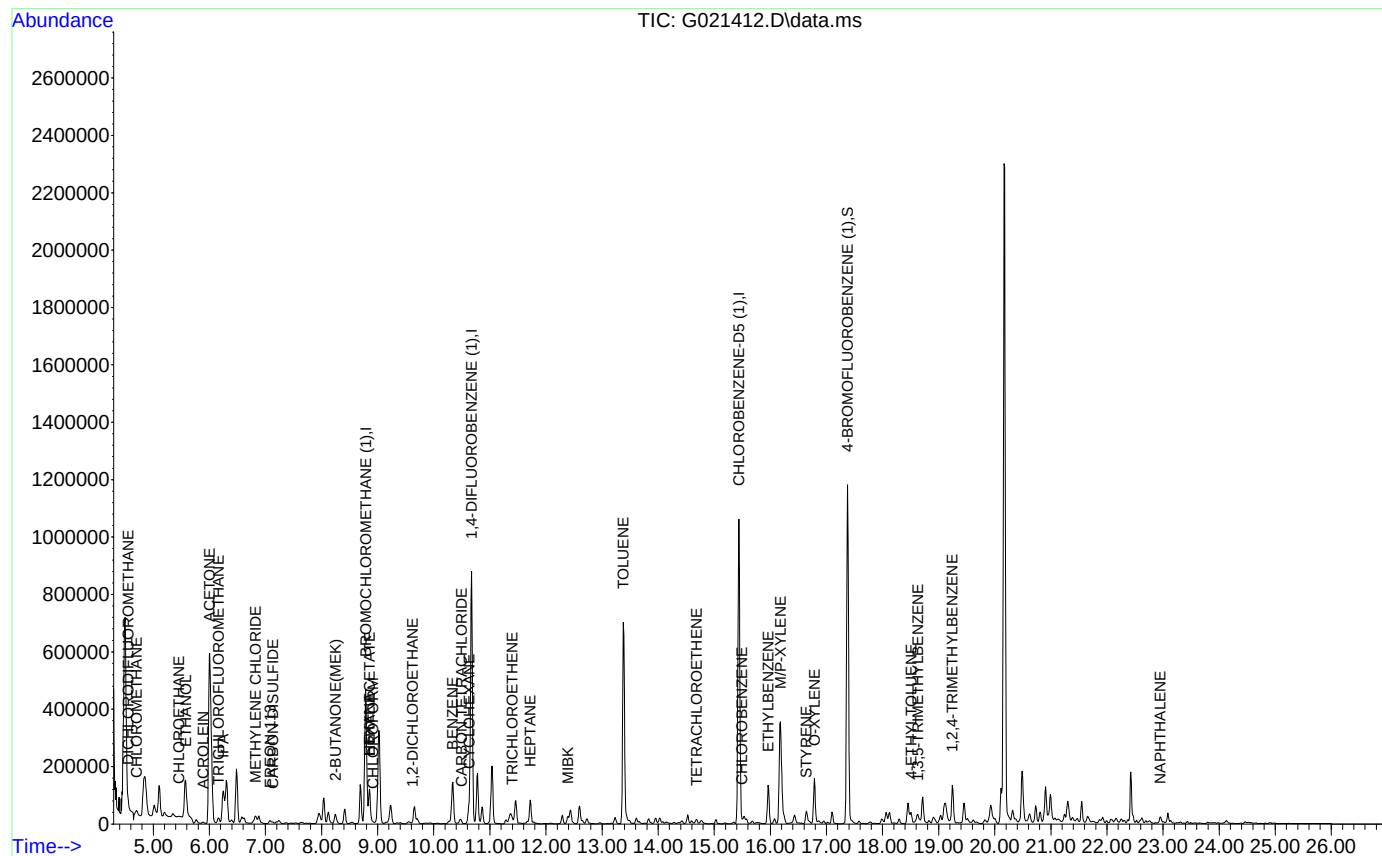
(#) = qualifier out of range (m) = manual integration (+) = signals summed

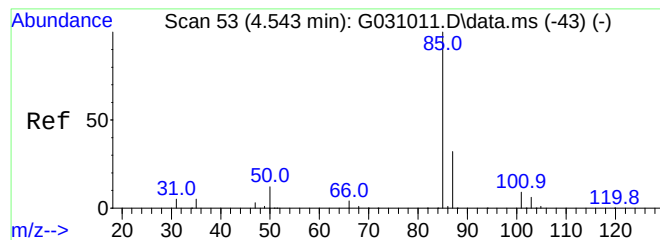
Data File : C:\msdchem\1\data\G021412\G021412.D
Acq On : 14 Feb 2012 7:16 pm
Sample : 12B0323-02 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:46:00 2012

Vial: 4
Operator: WSD
Inst : SYSG
Multiplr: 1.00

117

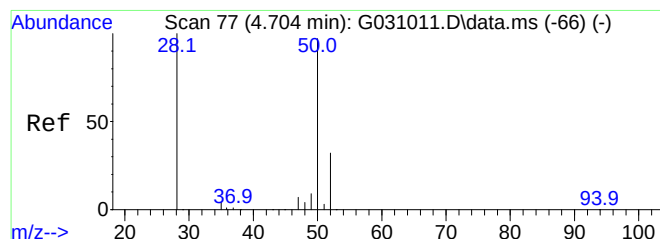
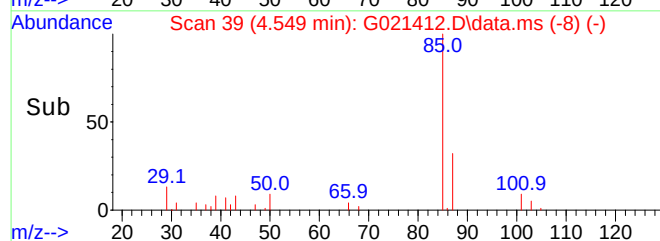
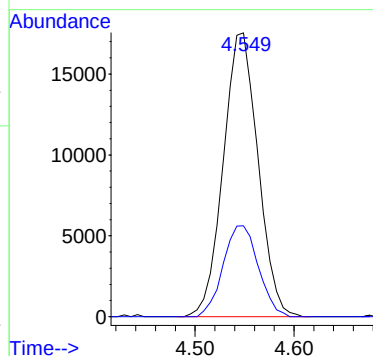
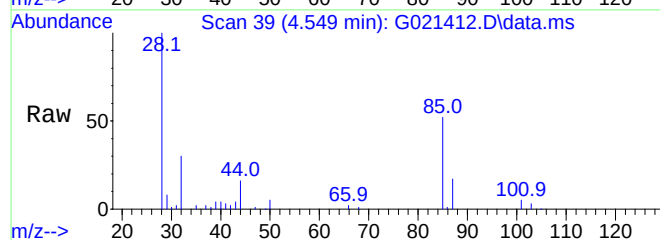
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





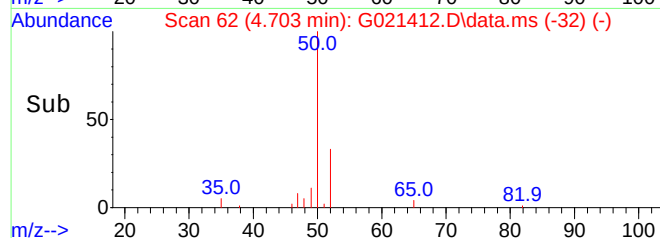
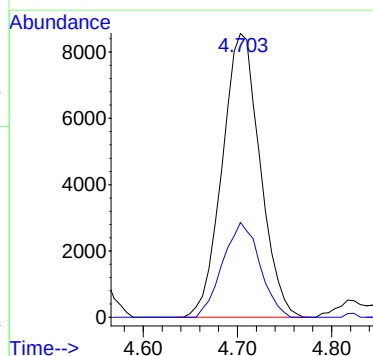
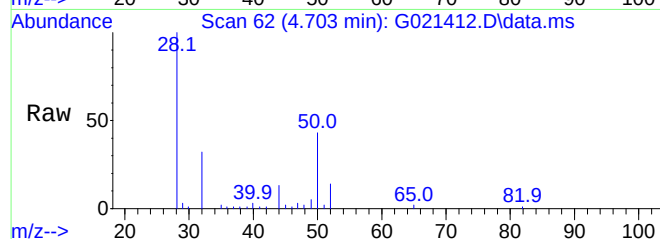
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.74 PPBV
 RT: 4.549 min Scan# 39
 Delta R.T. 0.006 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

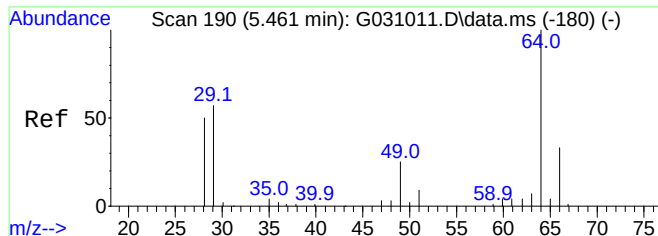
Tgt Ion: 85 Resp: 42855
 Ion Ratio Lower Upper
 85 100
 87 32.5 12.1 52.1



#4
 CHLOROMETHANE
 Concen: 1.43 PPBV
 RT: 4.703 min Scan# 62
 Delta R.T. -0.001 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

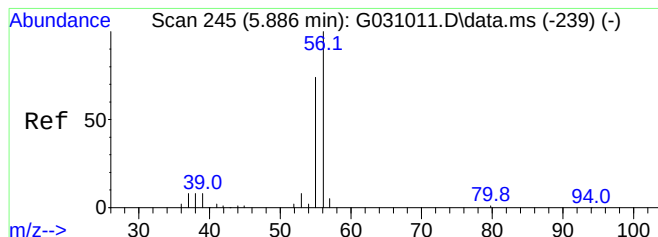
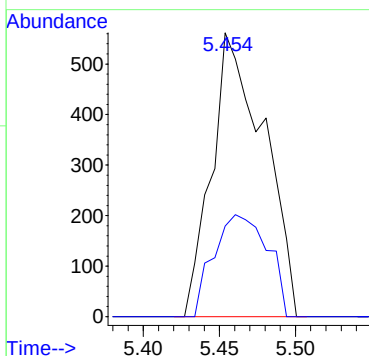
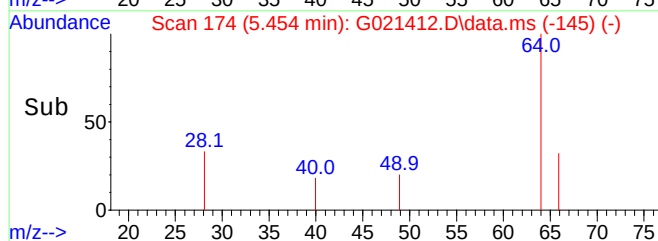
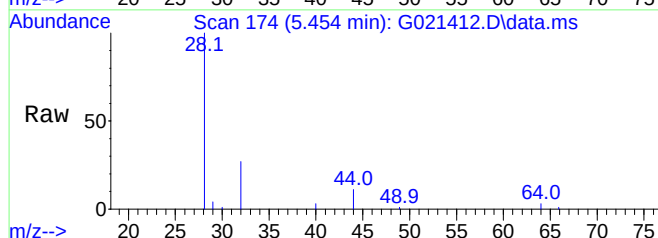
Tgt Ion: 50 Resp: 23937
 Ion Ratio Lower Upper
 50 100
 52 32.7 12.8 52.8





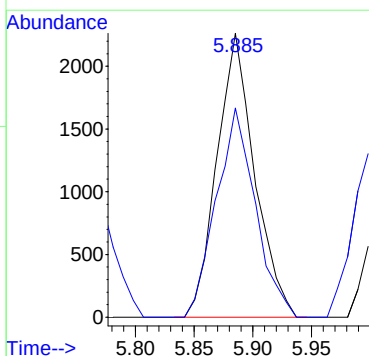
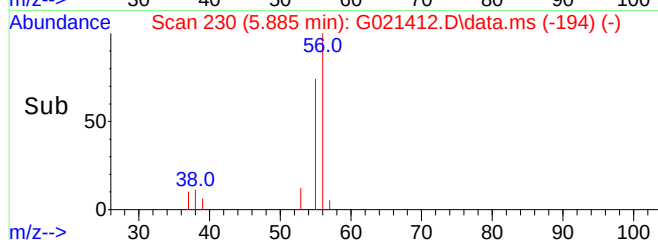
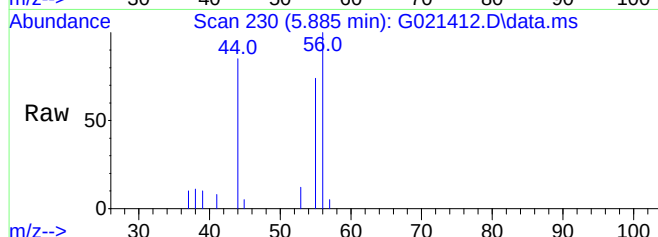
#9
CHLOROETHANE
Concen: 0.15 PPBV
RT: 5.454 min Scan# 174
Delta R.T. -0.007 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

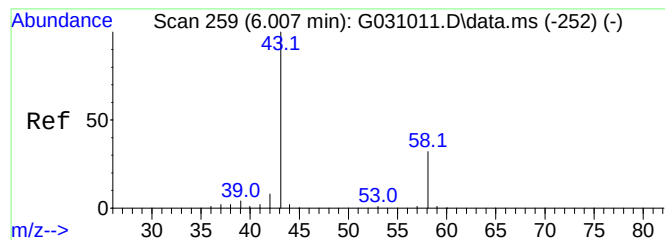
Tgt Ion: 64 Resp: 1338
Ion Ratio Lower Upper
64 100
66 37.1 12.1 52.1



#10
ACROLEIN
Concen: 0.72 PPBV
RT: 5.885 min Scan# 230
Delta R.T. 0.000 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

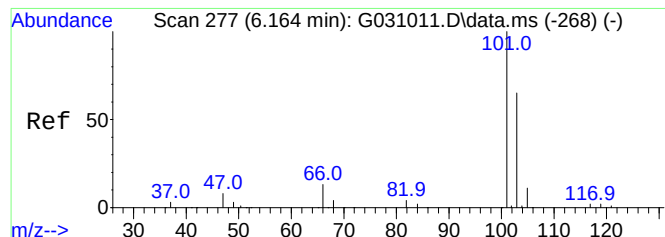
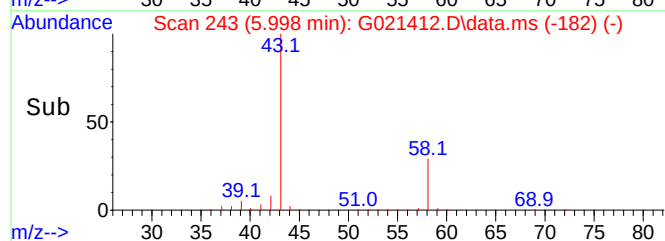
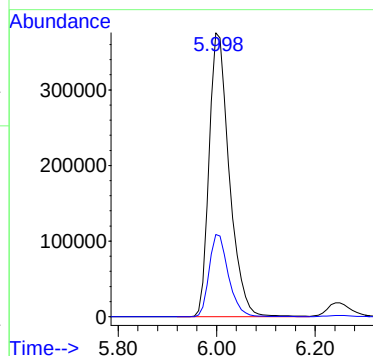
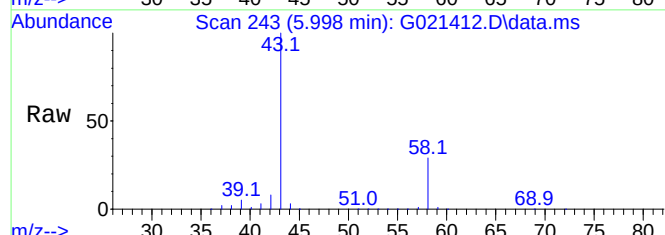
Tgt Ion: 56 Resp: 5025
Ion Ratio Lower Upper
56 100
55 76.7 56.1 84.1





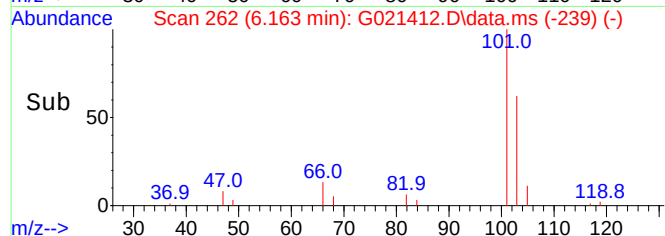
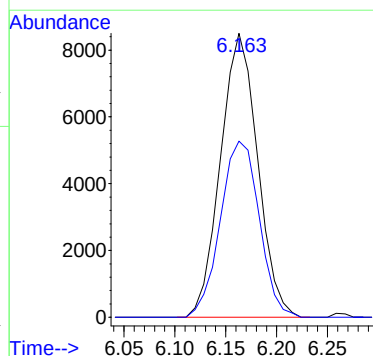
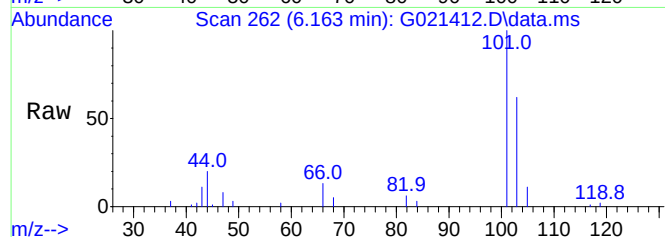
#11
 ACETONE
 Concen: 37.01 PPBV
 RT: 5.998 min Scan# 243
 Delta R.T. -0.009 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

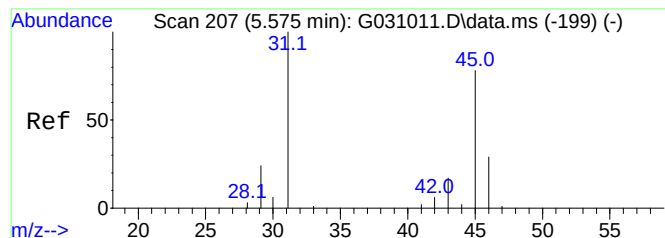
Tgt Ion: 43 Resp: 1067669
 Ion Ratio Lower Upper
 43 100
 58 27.7 13.9 53.9



#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.47 PPBV
 RT: 6.163 min Scan# 262
 Delta R.T. -0.001 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

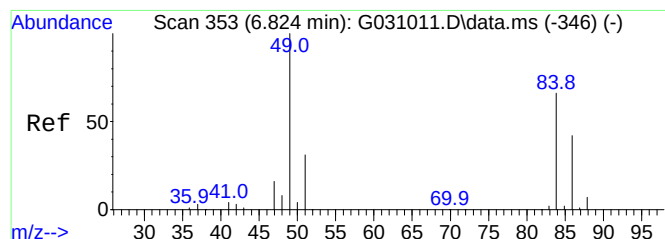
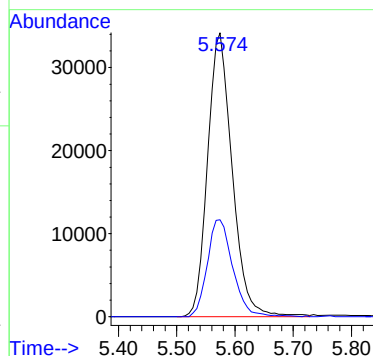
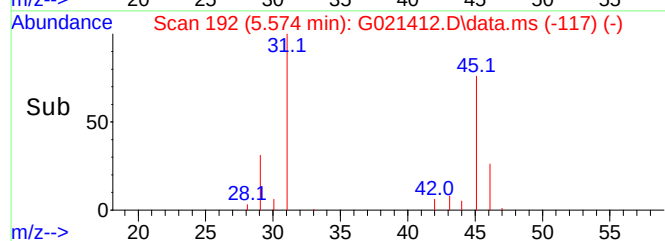
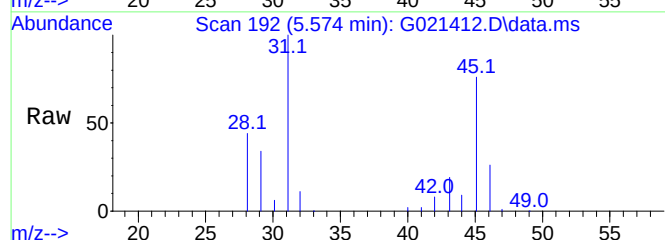
Tgt Ion: 101 Resp: 21607
 Ion Ratio Lower Upper
 101 100
 103 65.0 44.8 84.8





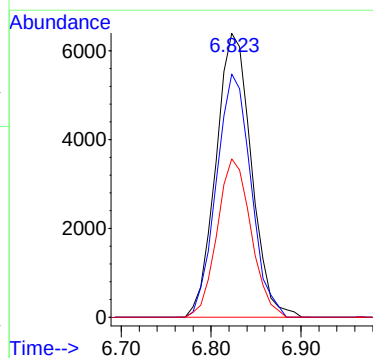
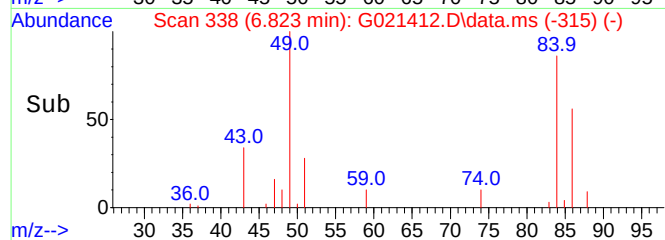
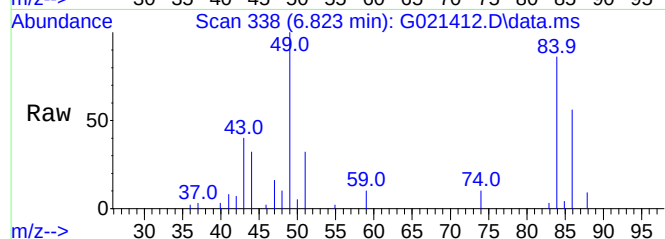
#13
ETHANOL
Concen: 17.62 PPBV
RT: 5.574 min Scan# 192
Delta R.T. 0.000 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

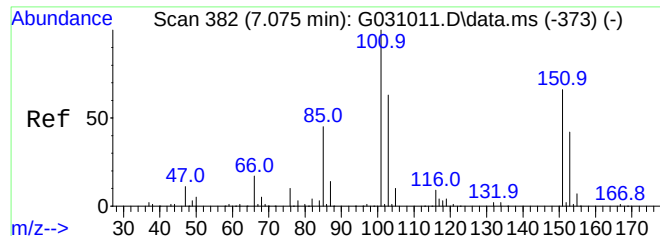
Tgt Ion: 45 Resp: 106938
Ion Ratio Lower Upper
45 100
46 35.4 14.0 54.0



#15
METHYLENE CHLORIDE
Concen: 0.54 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

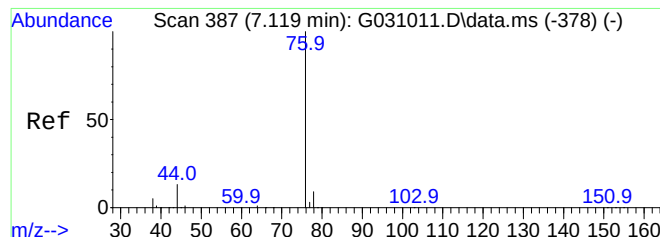
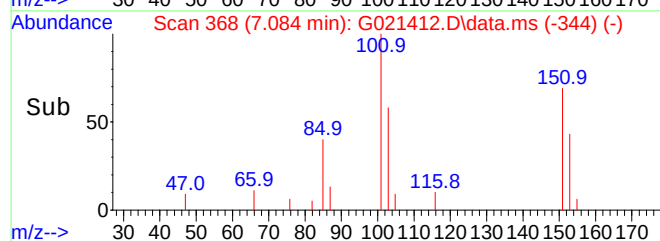
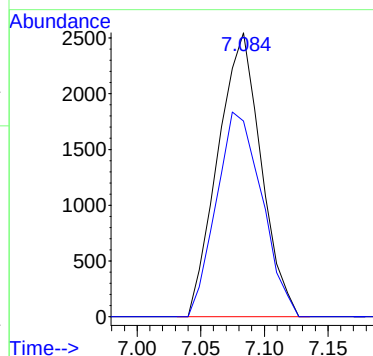
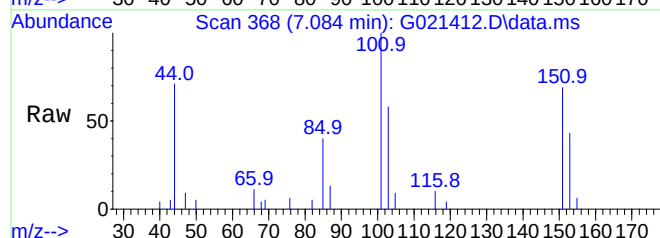
Tgt Ion: 49 Resp: 17485
Ion Ratio Lower Upper
49 100
84 83.6 45.2 85.2
86 53.3 21.4 61.4





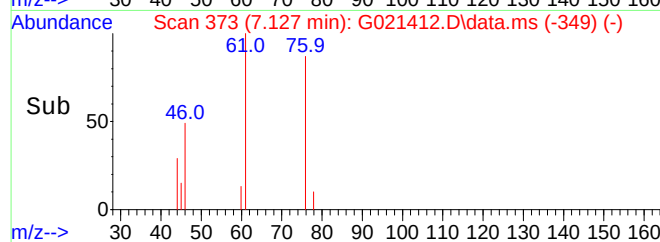
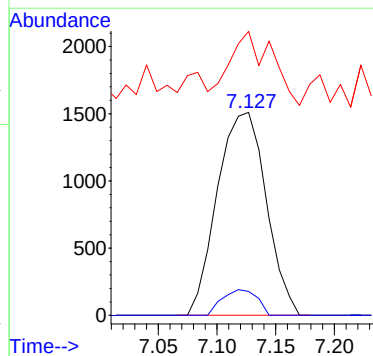
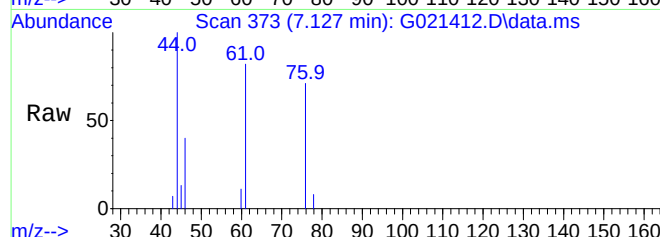
#16
FREON 113
Concen: 0.11 PPBV
RT: 7.084 min Scan# 368
Delta R.T. 0.008 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

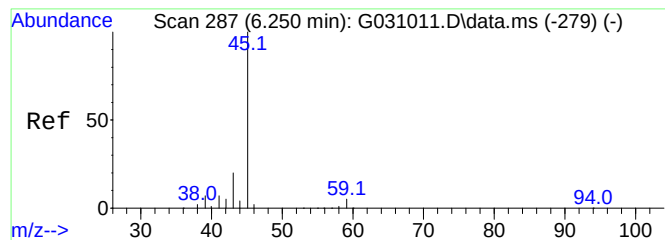
Tgt Ion: 101 Resp: 6007
Ion Ratio Lower Upper
101 100
151 76.3 46.3 86.3



#17
CARBON DISULFIDE
Concen: 0.05 PPBV
RT: 7.127 min Scan# 373
Delta R.T. 0.008 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

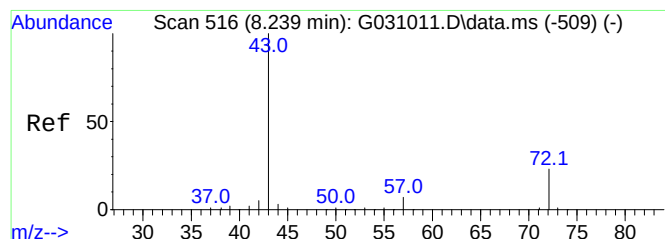
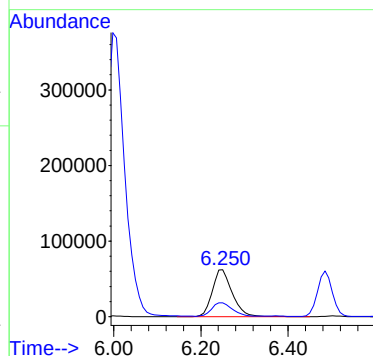
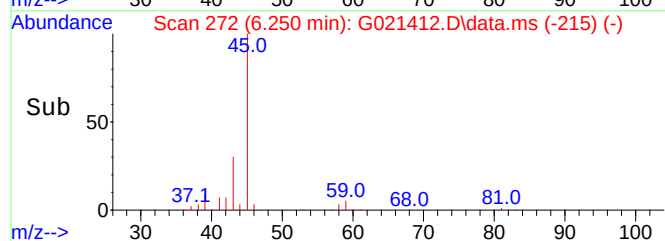
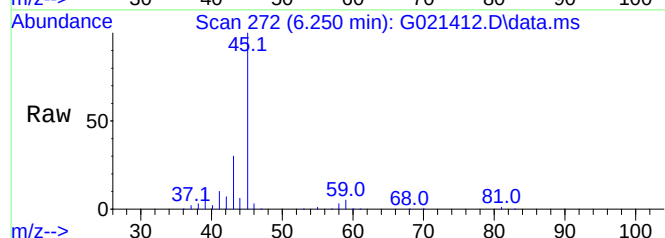
Tgt Ion: 76 Resp: 4360
Ion Ratio Lower Upper
76 100
78 9.0 0.0 30.7
44 31.4 0.0 33.4





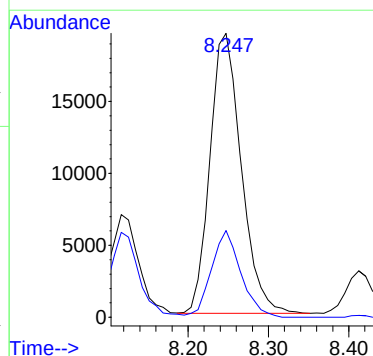
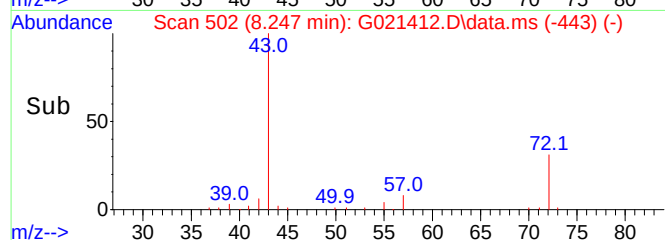
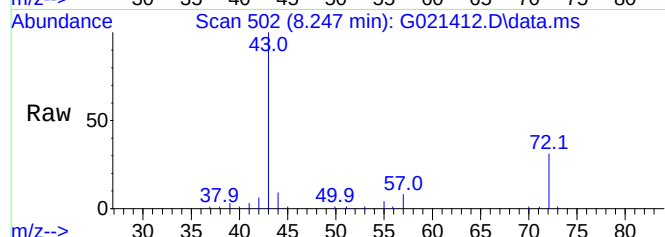
#21
IPA
Concen: 6.52 PPBV
RT: 6.250 min Scan# 272
Delta R.T. -0.000 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

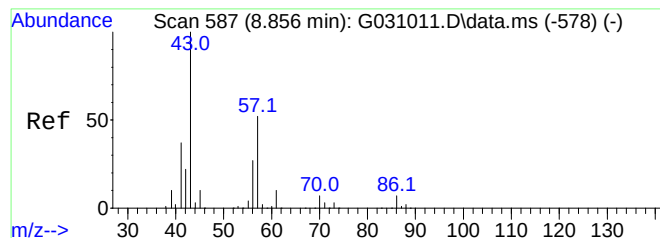
Tgt Ion: 45 Resp: 197946
Ion Ratio Lower Upper
45 100
43 31.5 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.90 PPBV
RT: 8.247 min Scan# 502
Delta R.T. 0.008 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

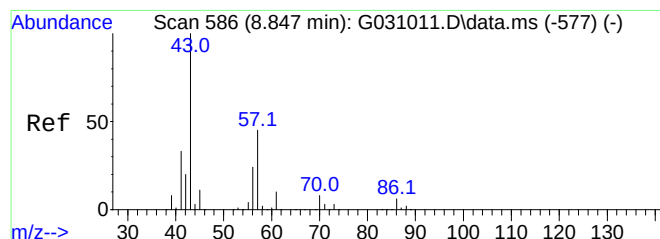
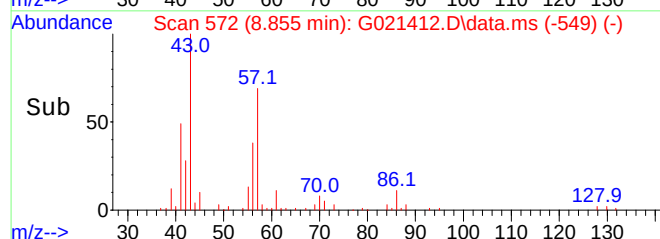
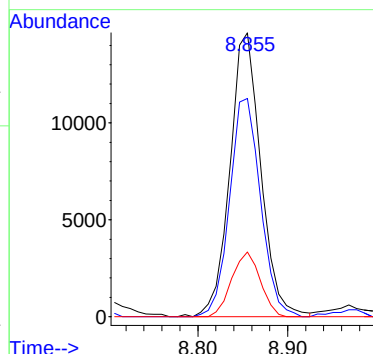
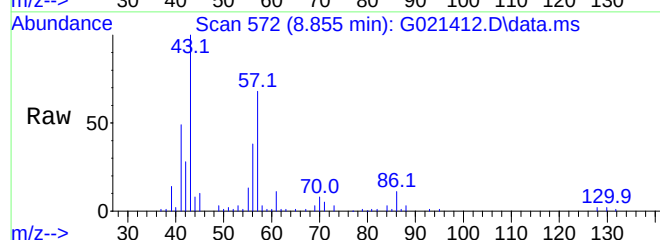
Tgt Ion: 43 Resp: 52877
Ion Ratio Lower Upper
43 100
72 29.1 2.6 42.6





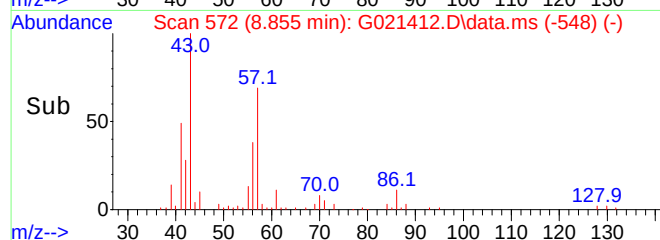
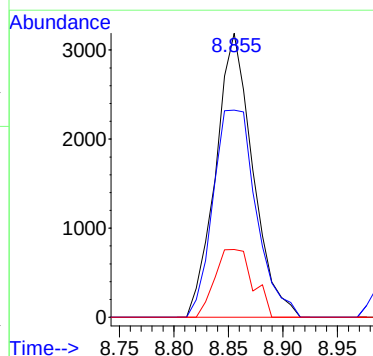
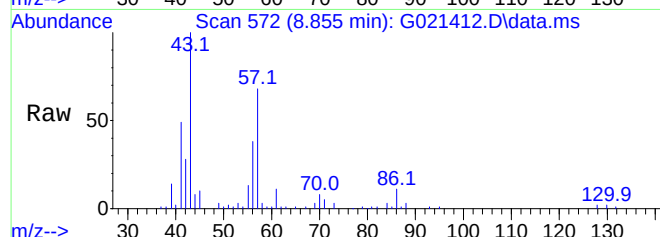
#25
 HEXANE
 Concen: 1.15 PPBV
 RT: 8.855 min Scan# 572
 Delta R.T. -0.001 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

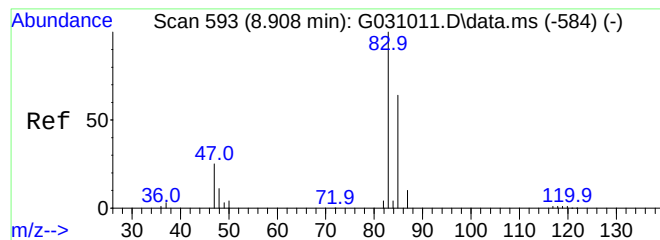
Tgt Ion: 41 Resp: 34971
 Ion Ratio Lower Upper
 41 100
 56 76.7 50.8 90.8
 86 21.0 9.6 29.6



#26
 ETHYL ACETATE
 Concen: 0.73 PPBV
 RT: 8.855 min Scan# 572
 Delta R.T. 0.008 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

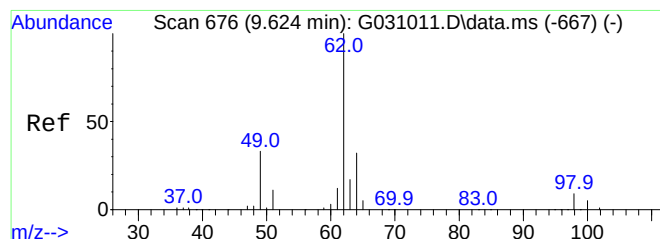
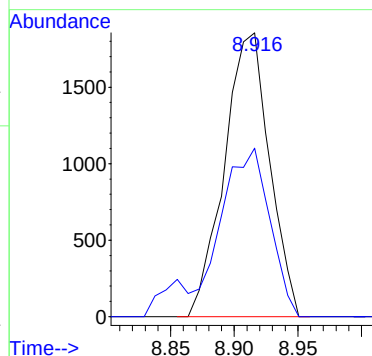
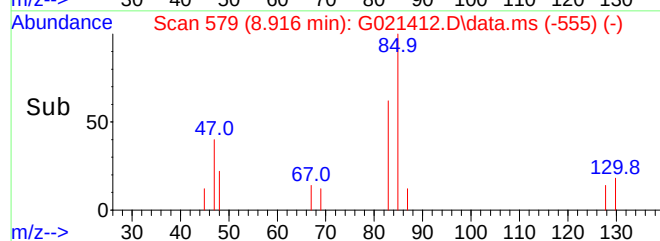
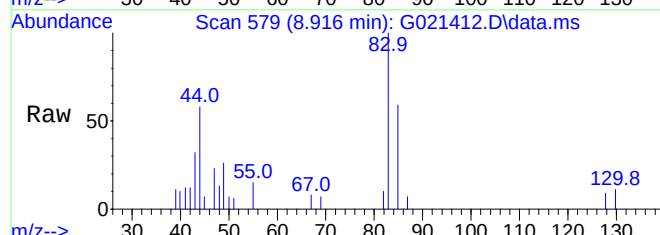
Tgt Ion: 61 Resp: 7554
 Ion Ratio Lower Upper
 61 100
 70 84.9 58.2 98.2
 88 24.5 3.0 43.0





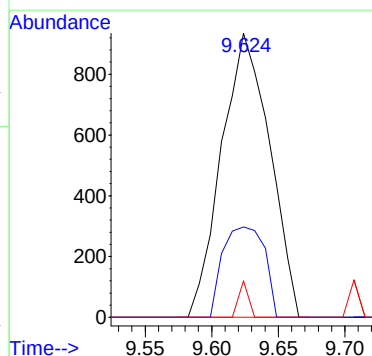
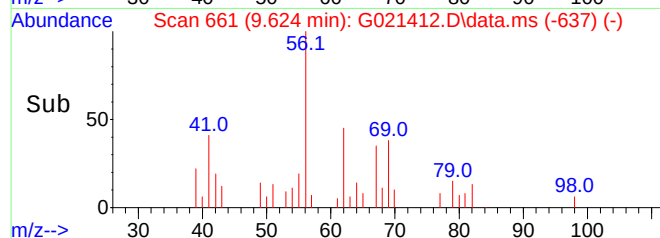
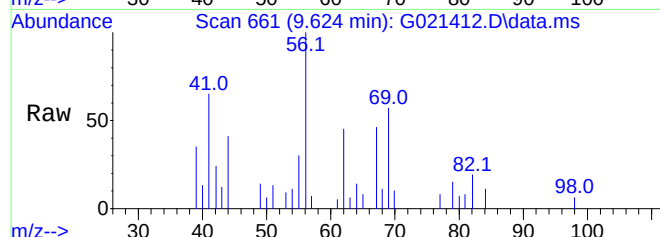
#27
CHLOROFORM
Concen: 0.08 PPBV
RT: 8.916 min Scan# 579
Delta R.T. 0.008 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

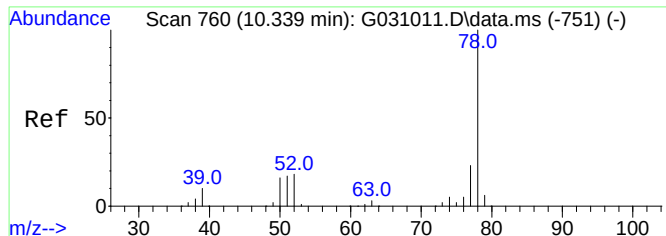
Tgt Ion: 83 Resp: 4590
Ion Ratio Lower Upper
83 100
85 63.6 44.9 84.9



#29
1,2-DICHLOROETHANE
Concen: 0.06 PPBV
RT: 9.624 min Scan# 661
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

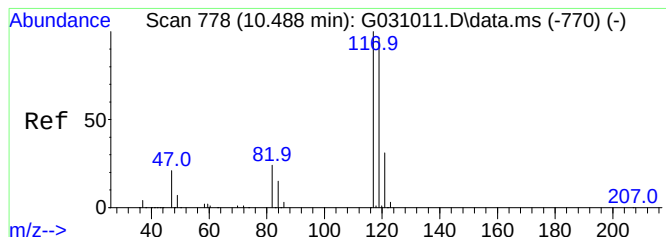
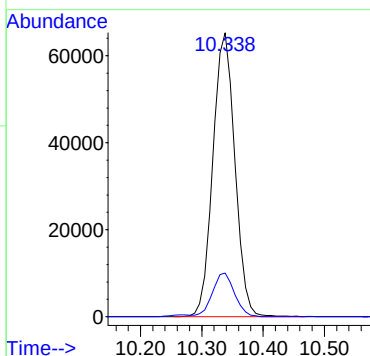
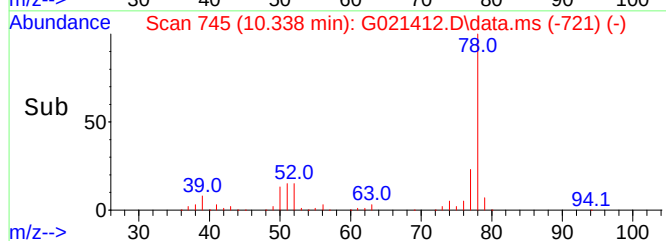
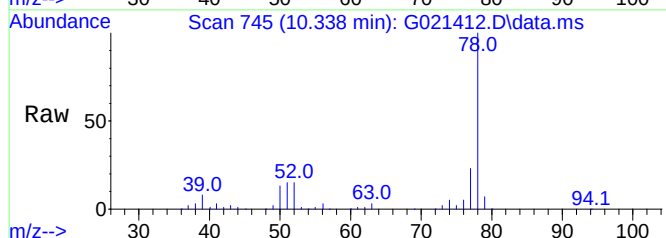
Tgt Ion: 62 Resp: 2351
Ion Ratio Lower Upper
62 100
64 27.6 12.5 52.5
98 0.0 0.0 18.4





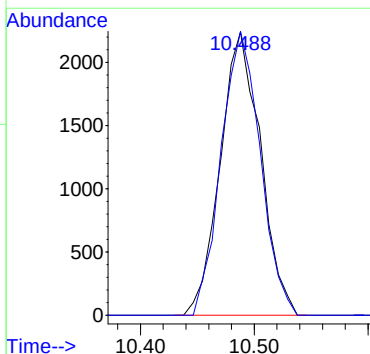
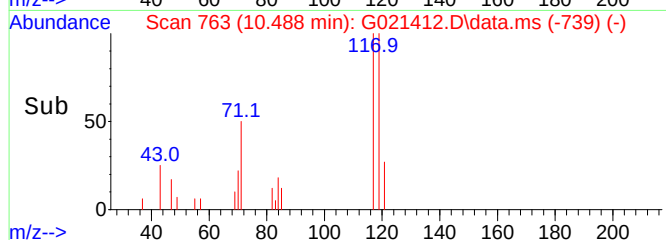
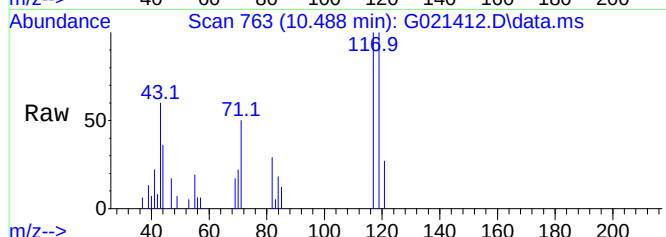
#32
BENZENE
Concen: 1.42 PPBV
RT: 10.338 min Scan# 745
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

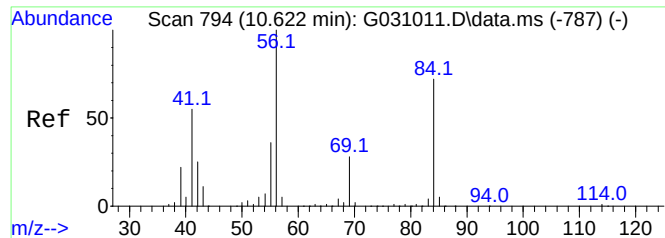
Tgt Ion: 78 Resp: 162254
Ion Ratio Lower Upper
78 100
51 15.6 0.0 37.6



#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.488 min Scan# 763
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

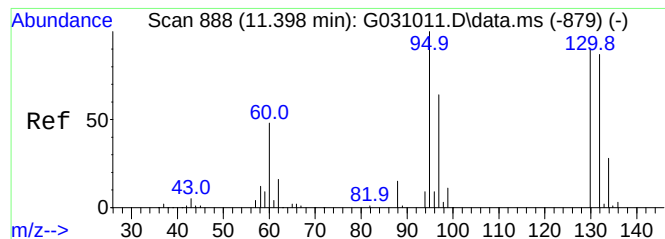
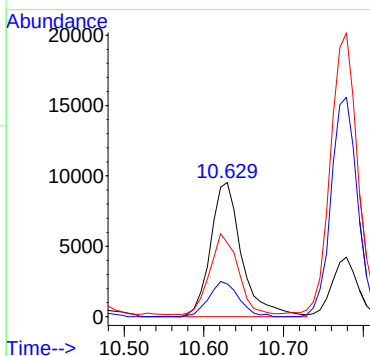
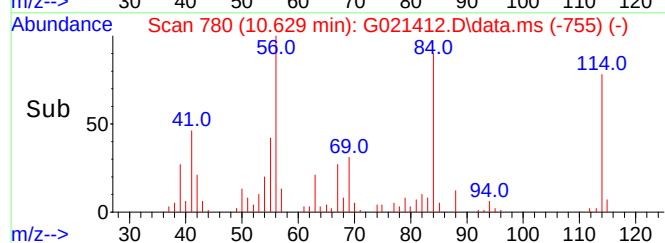
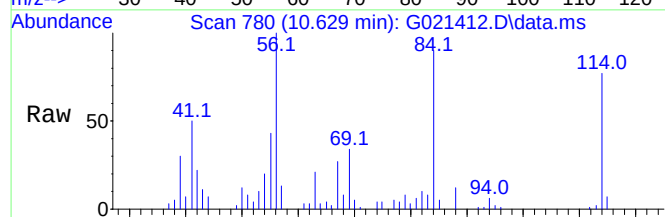
Tgt Ion: 117 Resp: 5517
Ion Ratio Lower Upper
117 100
119 97.5 75.4 115.4





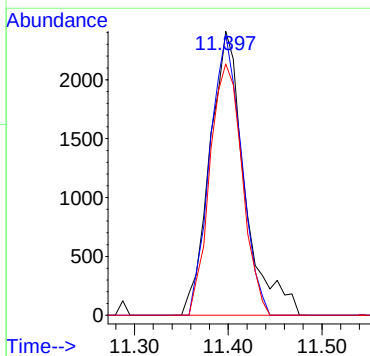
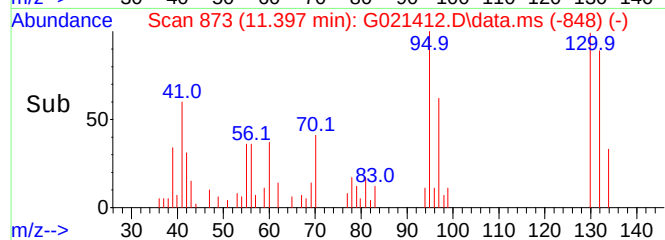
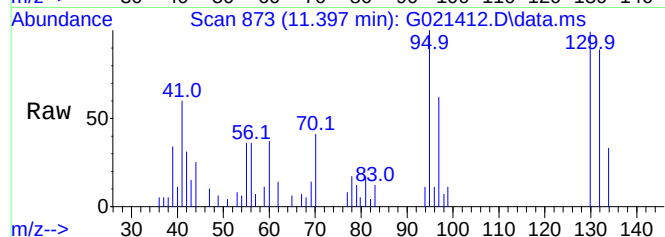
#34
CYCLOHEXANE
Concen: 0.54 PPBV
RT: 10.629 min Scan# 780
Delta R.T. 0.008 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

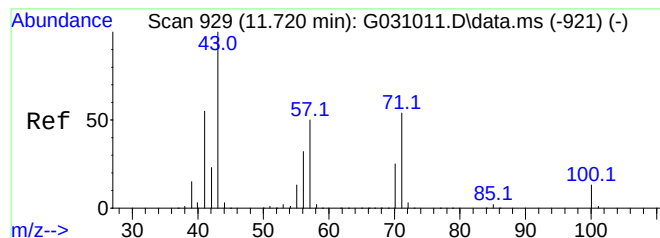
Tgt Ion: 84 Resp: 26004
Ion Ratio Lower Upper
84 100
42 25.4 13.2 53.2
41 54.3 55.4 95.4#



#37
TRICHLOROETHENE
Concen: 0.13 PPBV
RT: 11.397 min Scan# 873
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

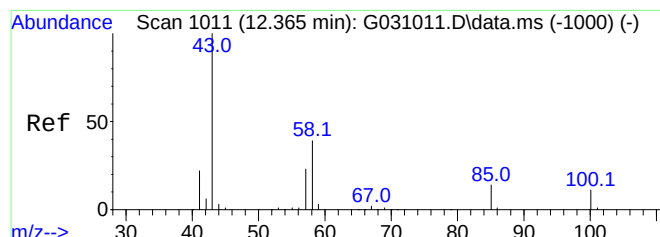
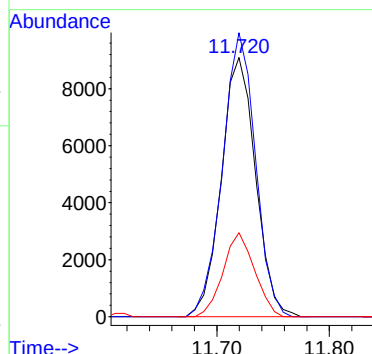
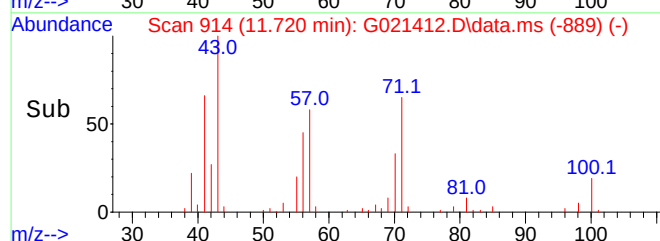
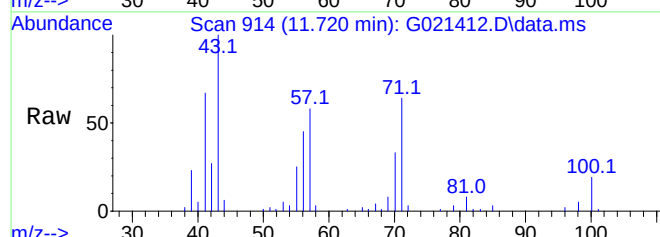
Tgt Ion: 95 Resp: 6265
Ion Ratio Lower Upper
95 100
130 89.2 71.2 111.2
132 81.9 66.9 106.9





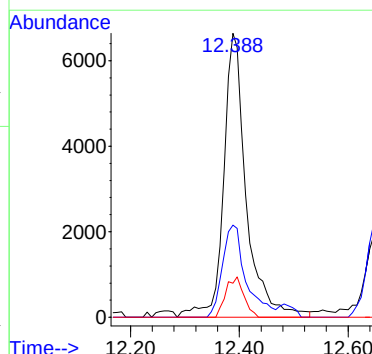
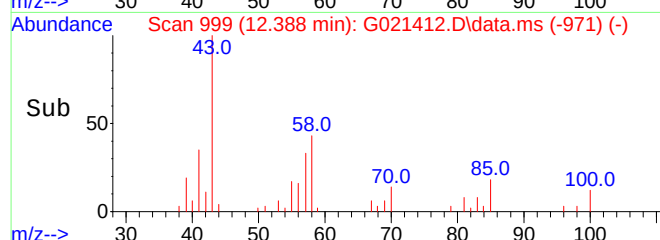
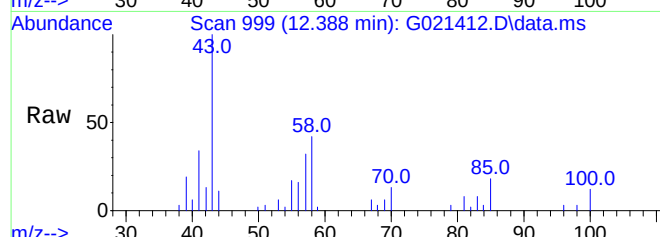
#40
HEPTANE
Concen: 0.56 PPBV
RT: 11.720 min Scan# 914
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

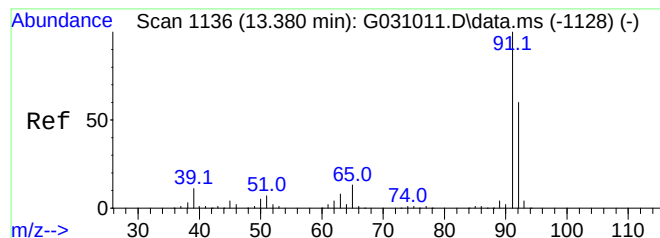
Tgt Ion: 57 Resp: 19288
Ion Ratio Lower Upper
57 100
71 105.2 83.8 123.8
100 29.7 5.4 45.4



#41
MIBK
Concen: 0.22 PPBV
RT: 12.388 min Scan# 999
Delta R.T. 0.023 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

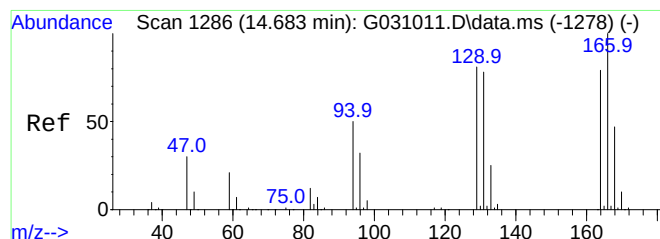
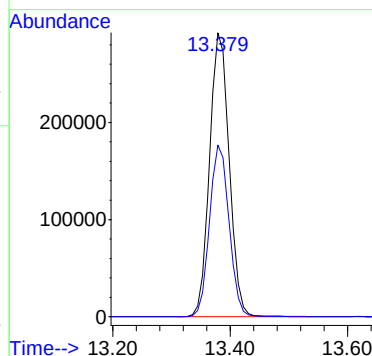
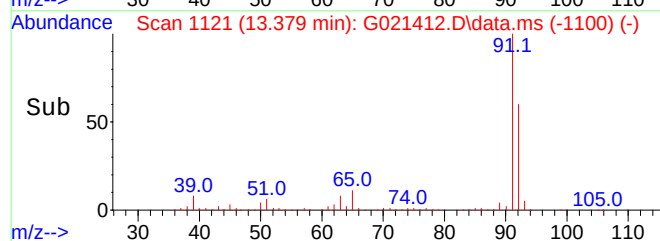
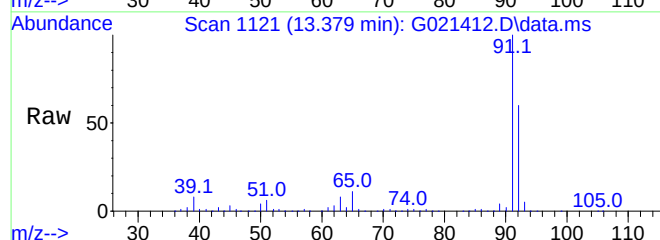
Tgt Ion: 43 Resp: 19165
Ion Ratio Lower Upper
43 100
57 33.9 2.8 42.8
100 11.3 1.0 21.0





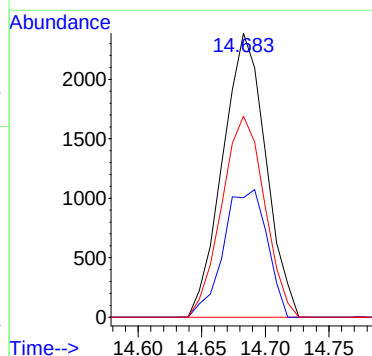
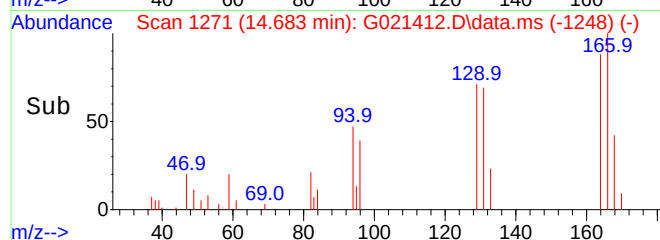
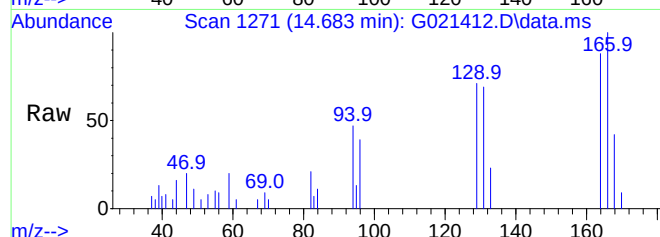
#46
 TOLUENE
 Concen: 5.31 PPBV
 RT: 13.379 min Scan# 1121
 Delta R.T. -0.001 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

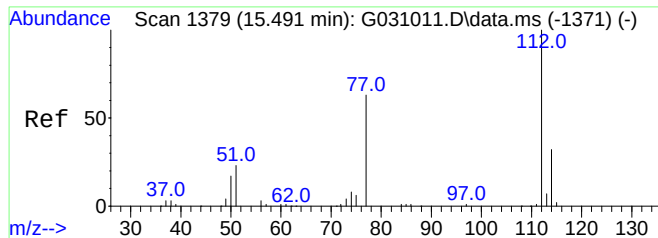
Tgt Ion: 91 Resp: 678297
 Ion Ratio Lower Upper
 91 100
 92 60.0 39.7 79.7



#50
 TETRACHLOROETHENE
 Concen: 0.10 PPBV
 RT: 14.683 min Scan# 1271
 Delta R.T. -0.001 min
 Lab File: G021412.D
 Acq: 14 Feb 2012 7:16 pm

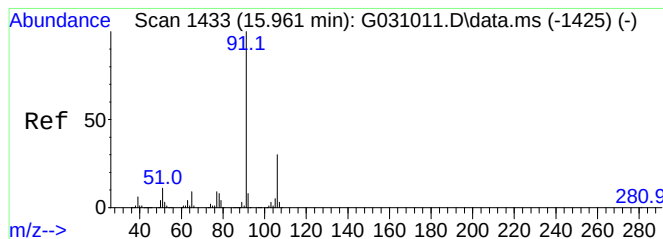
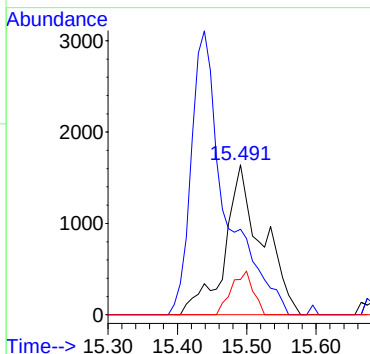
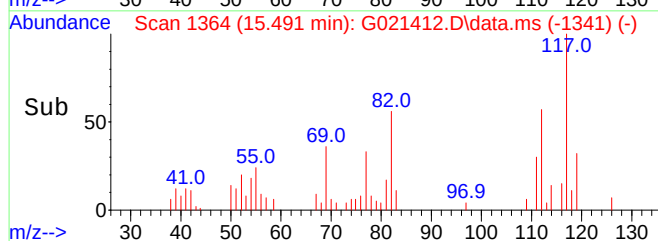
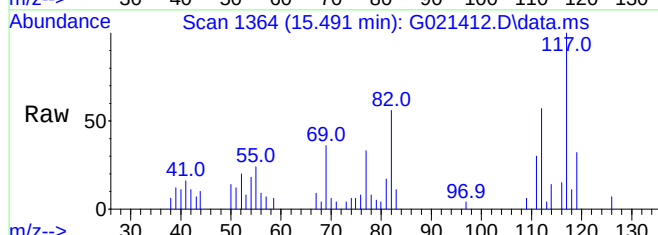
Tgt Ion: 166 Resp: 5623
 Ion Ratio Lower Upper
 166 100
 168 45.5 27.0 67.0
 129 70.5 60.6 100.6





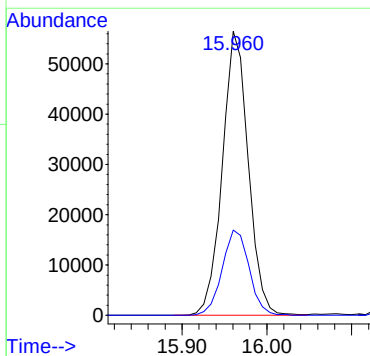
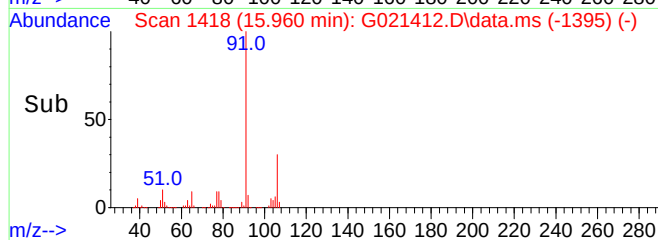
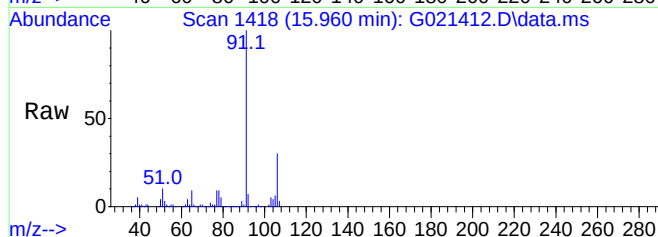
#51
CHLOROBENZENE
Concen: 0.06 PPBV m
RT: 15.491 min Scan# 1364
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

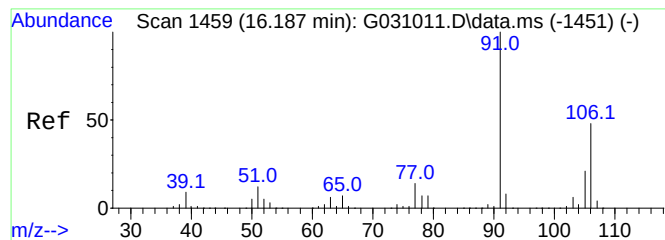
Tgt Ion: 112 Resp: 6143
Ion Ratio Lower Upper
112 100
77 49.2 47.0 87.0
114 17.0 12.1 52.1



#52
ETHYLBENZENE
Concen: 0.74 PPBV
RT: 15.960 min Scan# 1418
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

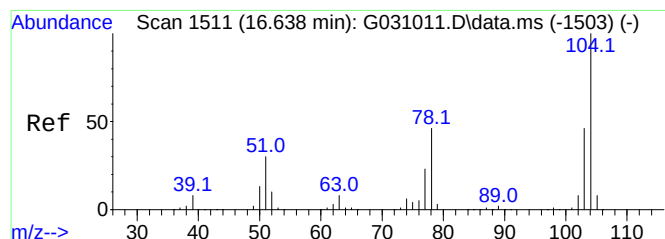
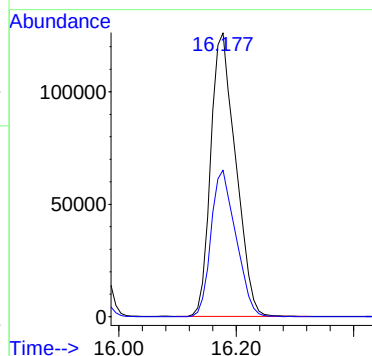
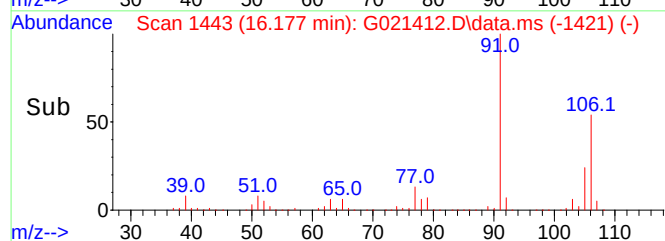
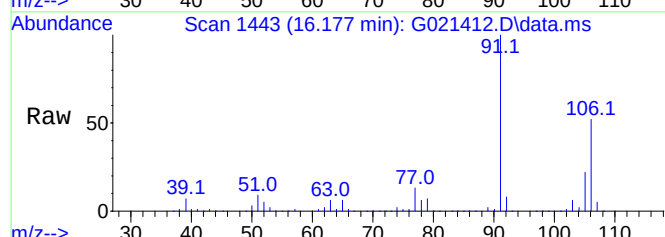
Tgt Ion: 91 Resp: 120001
Ion Ratio Lower Upper
91 100
106 31.2 10.0 50.0





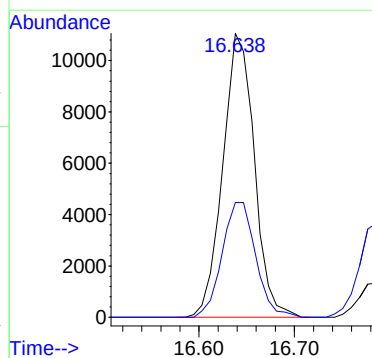
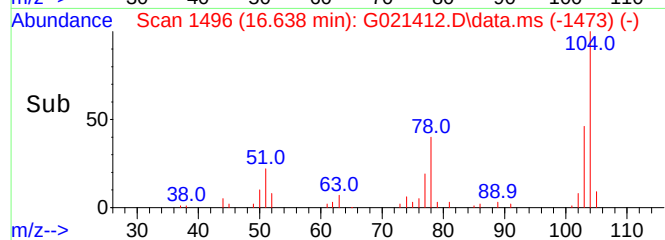
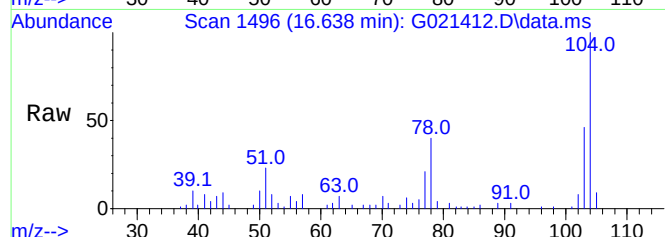
#53
M/P-XYLENE
Concen: 2.91 PPBV
RT: 16.177 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

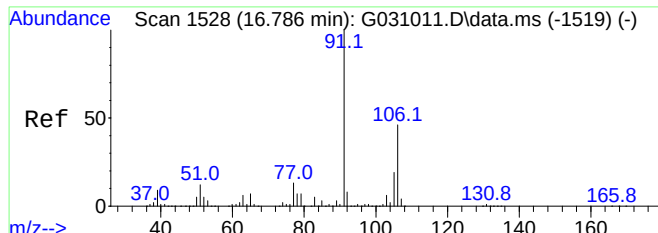
Tgt Ion: 91 Resp: 370711
Ion Ratio Lower Upper
91 100
106 51.5 28.3 68.3



#55
STYRENE
Concen: 0.27 PPBV
RT: 16.638 min Scan# 1496
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

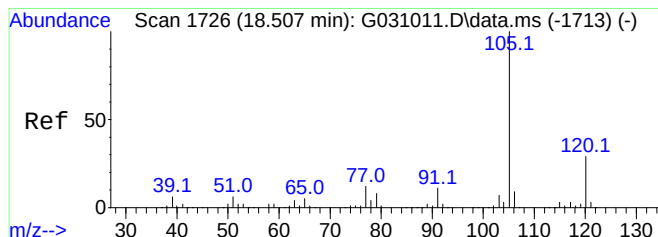
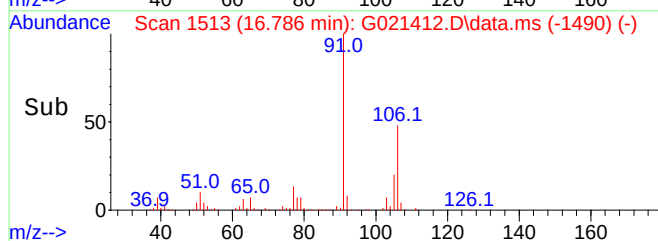
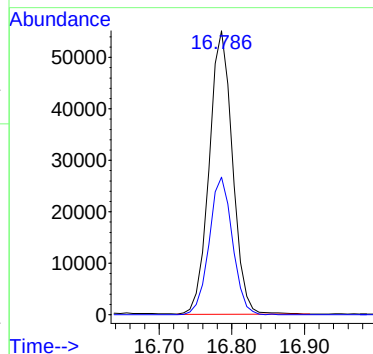
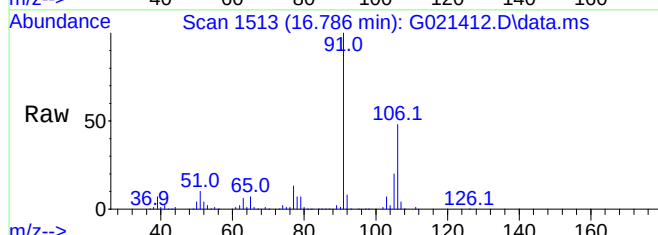
Tgt Ion: 104 Resp: 25334
Ion Ratio Lower Upper
104 100
78 43.2 25.1 65.1





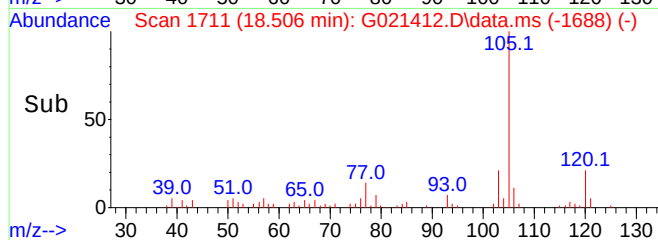
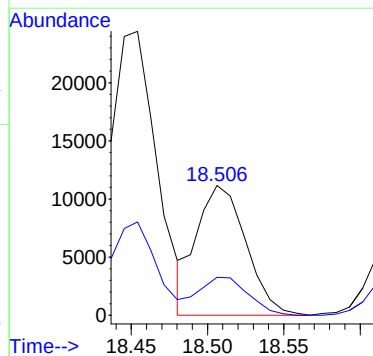
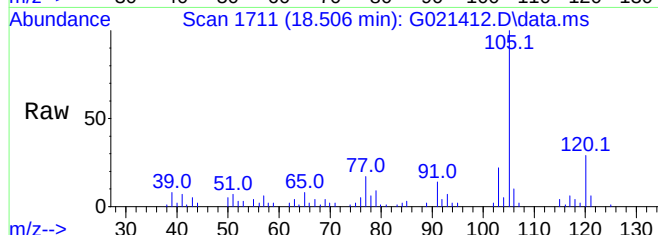
#56
O-XYLENE
Concen: 0.97 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

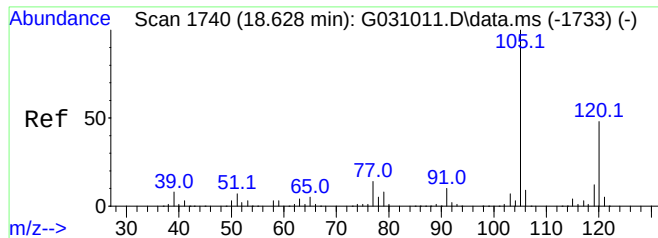
Tgt Ion: 91 Resp: 122677
Ion Ratio Lower Upper
91 100
106 48.5 25.5 65.5



#59
4-ETHYLTOLUENE
Concen: 0.15 PPBV
RT: 18.506 min Scan# 1711
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

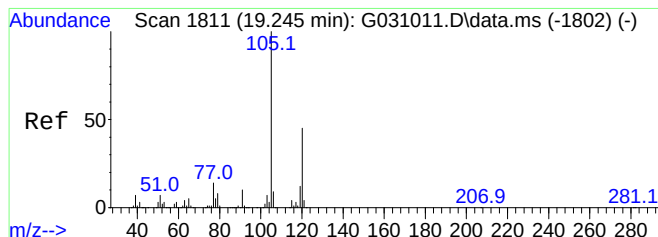
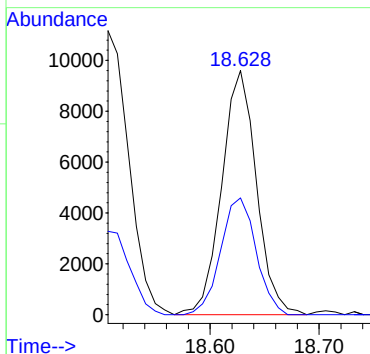
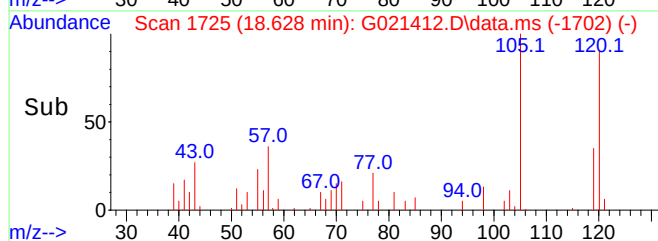
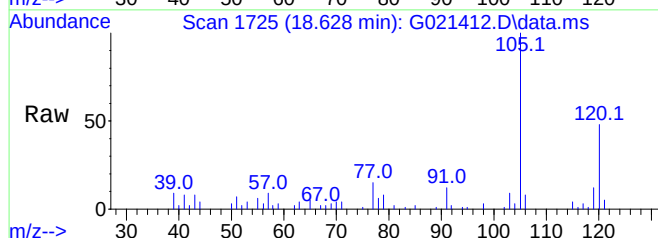
Tgt Ion: 105 Resp: 25092
Ion Ratio Lower Upper
105 100
120 30.0 8.6 48.6





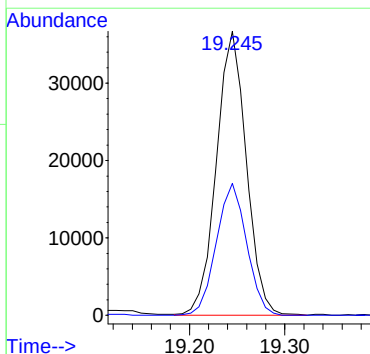
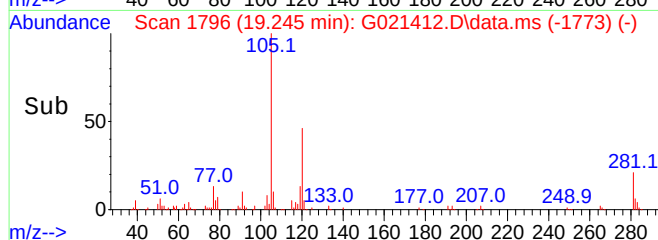
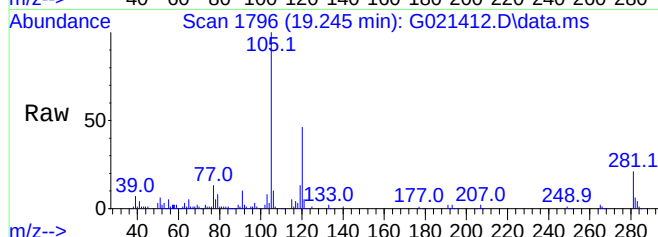
#60
1,3,5-TRIMETHYLBENZENE
Concen: 0.15 PPBV
RT: 18.628 min Scan# 1725
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

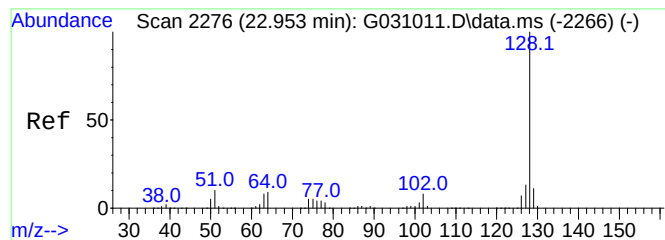
Tgt Ion:105 Resp: 21296
Ion Ratio Lower Upper
105 100
120 48.8 28.3 68.3



#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.58 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.001 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

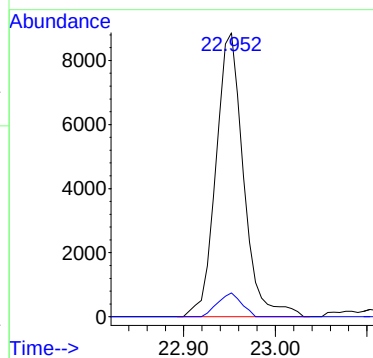
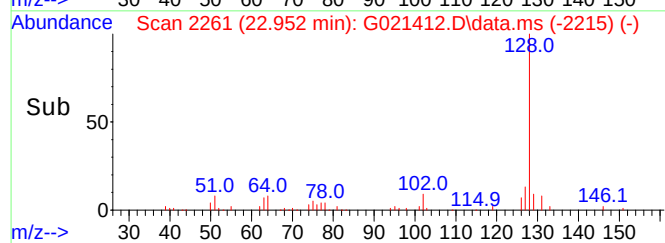
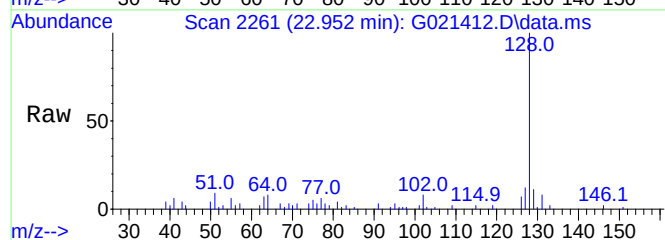
Tgt Ion:105 Resp: 79857
Ion Ratio Lower Upper
105 100
120 46.9 24.8 64.8





#67
NAPHTHALENE
Concen: 0.10 PPBV
RT: 22.952 min Scan# 2261
Delta R.T. 0.000 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

Tgt Ion:128 Resp: 18564
Ion Ratio Lower Upper
128 100
102 7.2 0.0 28.6



Data File : C:\msdchem\1\data\G021412\G021412.D
 Acq On : 14 Feb 2012 7:16 pm
 Sample : 12B0323-02 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:12:02 2012

Vial: 4
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	921734	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	169690	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	617761	9.62	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	120.25%
Target Compounds						
3) METHYL ACETATE	6.806	43	10022	0.198	PPBV #	92
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	68983	0.523	PPBV	84
6) METHYLCYCLOHEXANE	12.435	83	22321	0.411	PPBV	86
12) PROPYLBENZENE	18.298	120	3460	0.093	PPBV #	81
15) P-CYMENE	19.931	119	35116	0.255	PPBV	88
16) INDANE	20.227	117	13827	0.131	PPBV	95
17) INDENE	20.383	115	4485	0.054	PPBV	87
18) BUTYLBENZENE	20.731	91	9871	0.072	PPBV	83

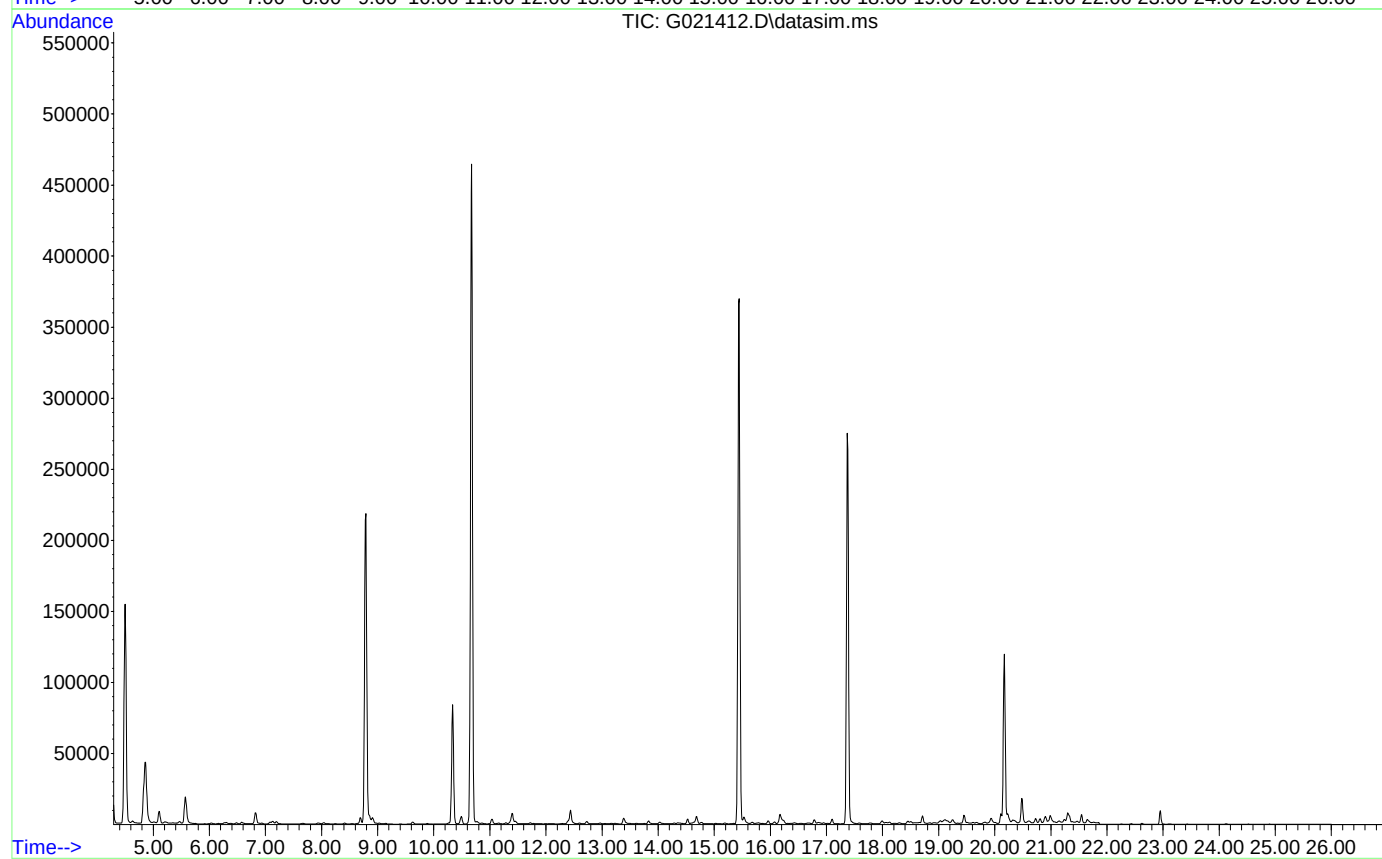
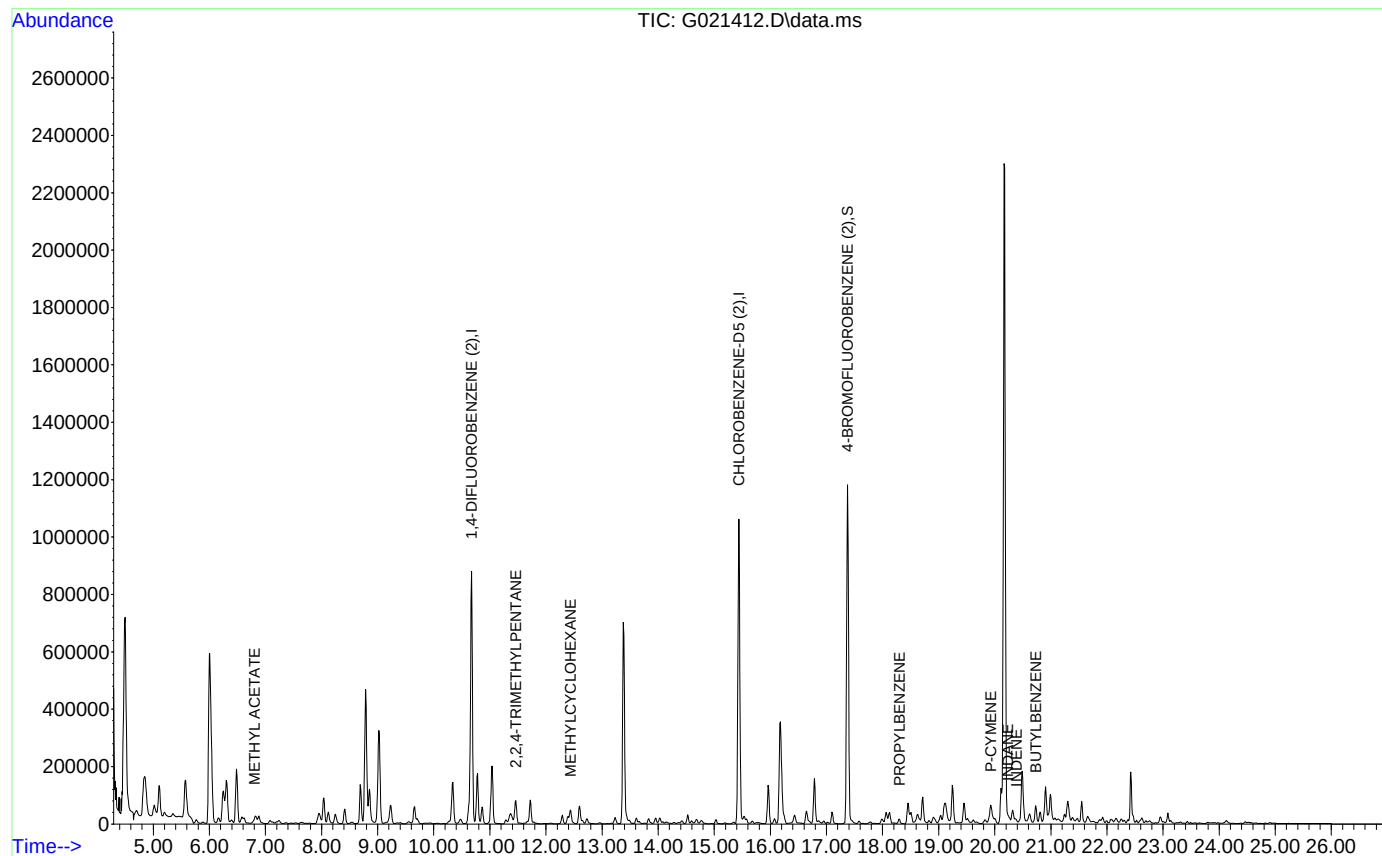
(#) = qualifier out of range (m) = manual integration (+) = signals summed

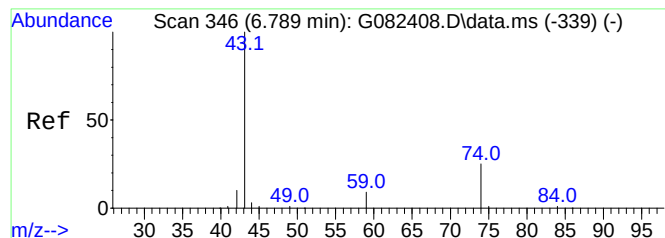
Data File : C:\msdchem\1\data\G021412\G021412.D
Acq On : 14 Feb 2012 7:16 pm
Sample : 12B0323-02 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:12:02 2012

Vial: 4
Operator: WSD
Inst : SYSG
Multiplr: 1.00

136

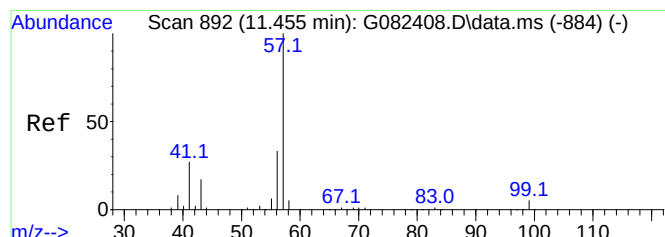
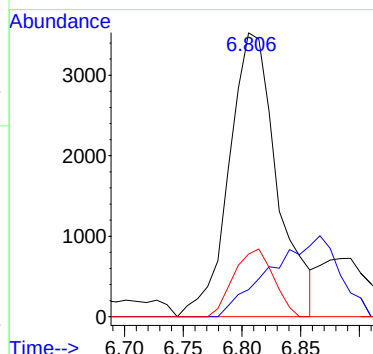
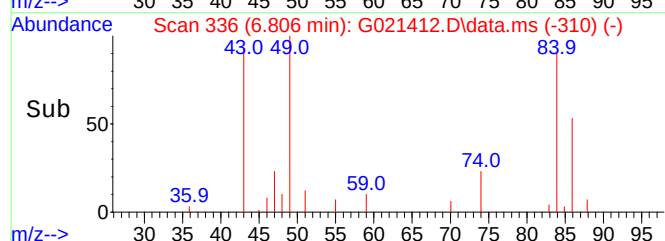
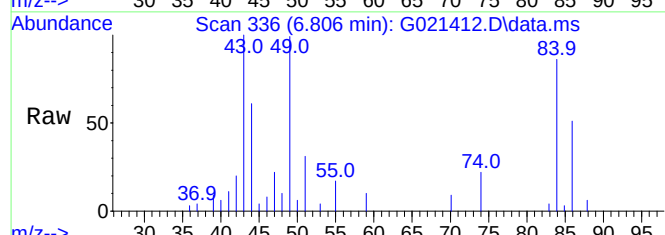
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





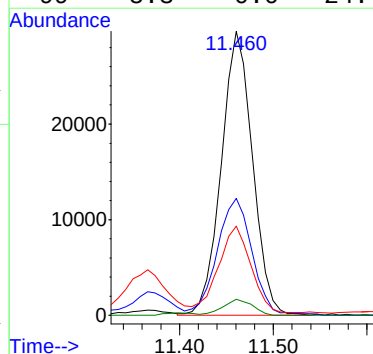
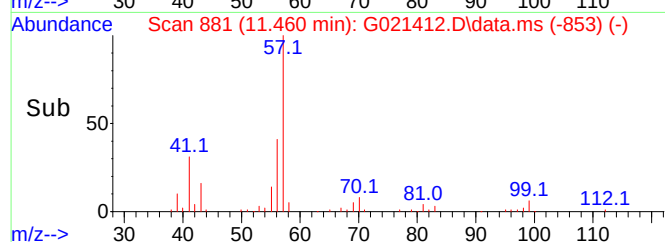
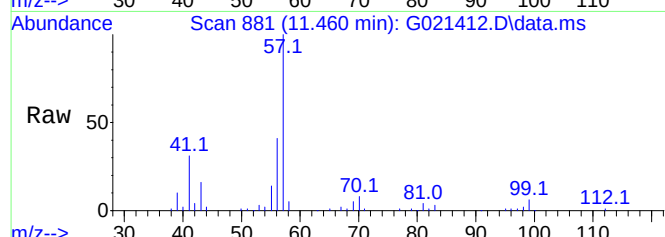
#3
METHYL ACETATE
Concen: 0.20 PPBV
RT: 6.806 min Scan# 336
Delta R.T. 0.026 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

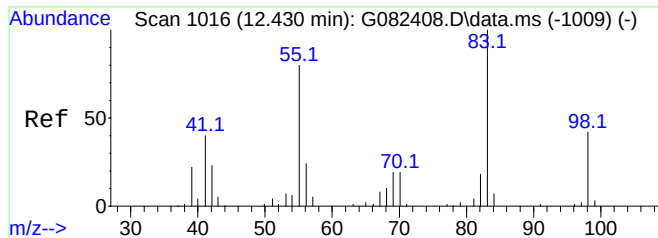
Tgt Ion: 43 Resp: 10022
Ion Ratio Lower Upper
43 100
59 0.0 0.0 27.9
74 19.8 1.0 41.0



#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.52 PPBV
RT: 11.460 min Scan# 881
Delta R.T. 0.021 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

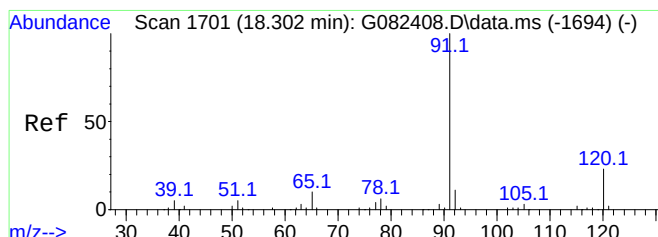
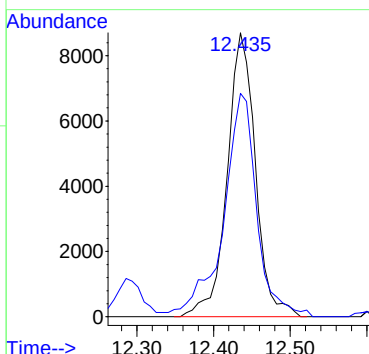
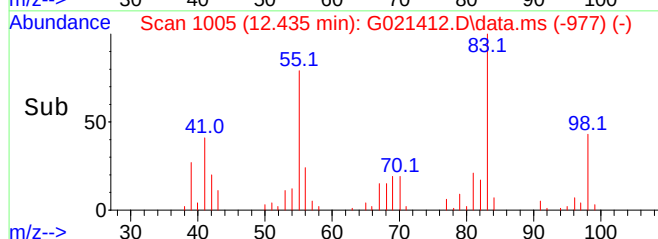
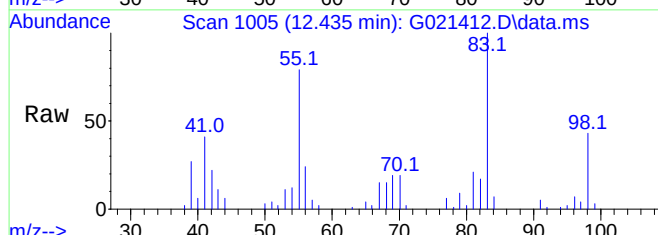
Tgt Ion: 57 Resp: 68983
Ion Ratio Lower Upper
57 100
56 46.2 13.7 53.7
41 31.5 5.8 45.8
99 5.3 0.0 24.7





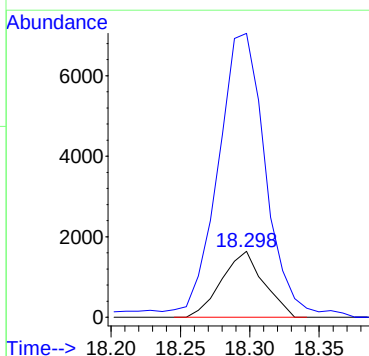
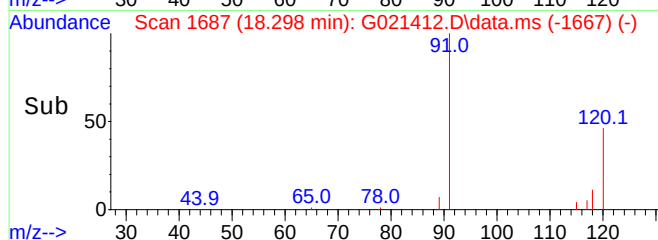
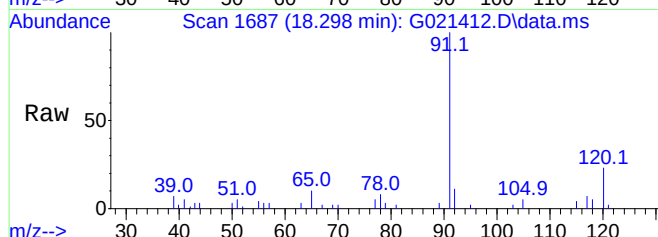
#6
METHYLCYCLOHEXANE
Concen: 0.41 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.021 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

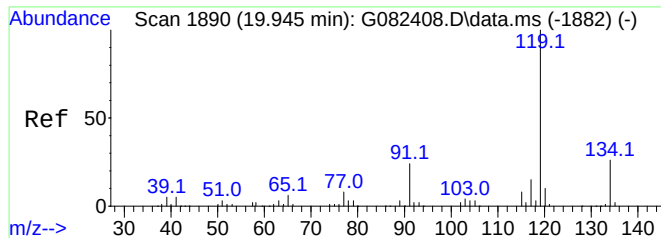
Tgt Ion: 83 Resp: 22321
Ion Ratio Lower Upper
83 100
55 92.8 60.5 100.5



#12
PROPYLBENZENE
Concen: 0.09 PPBV
RT: 18.298 min Scan# 1687
Delta R.T. -0.022 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

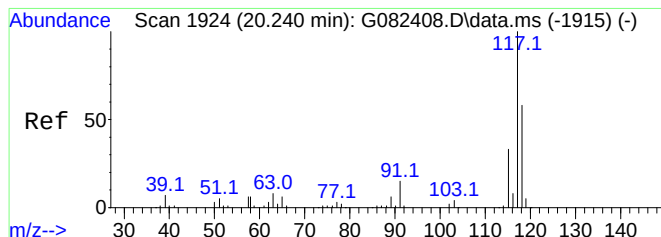
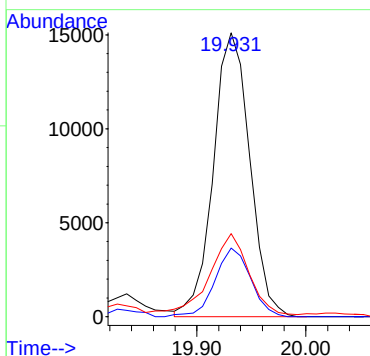
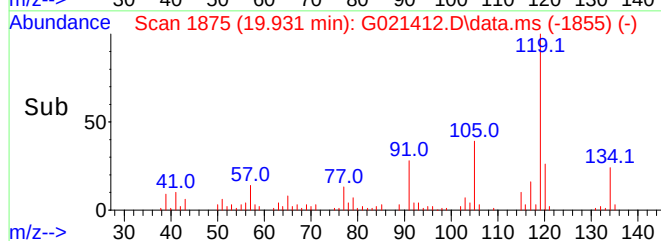
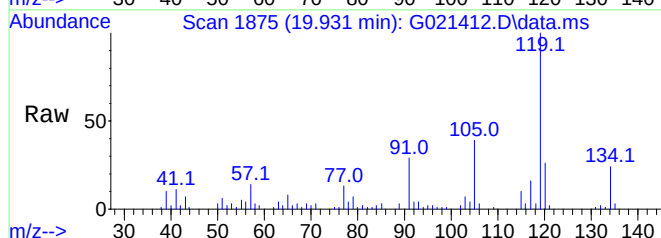
Tgt Ion: 120 Resp: 3460
Ion Ratio Lower Upper
120 100
91 504.0 434.5 474.5#





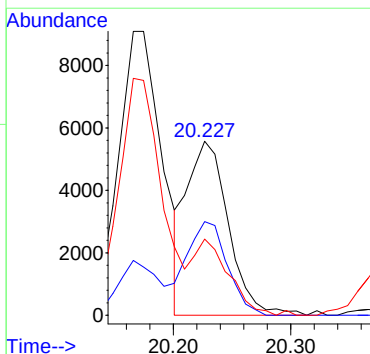
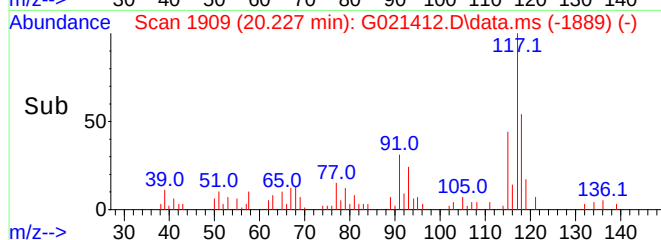
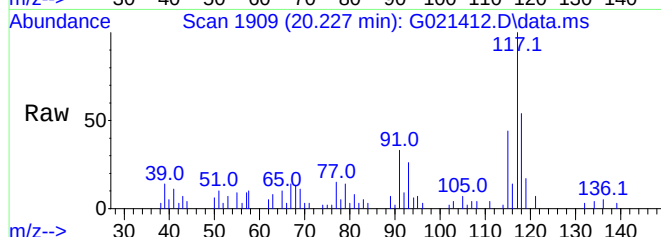
#15
P-CYMENE
Concen: 0.26 PPBV
RT: 19.931 min Scan# 1875
Delta R.T. -0.022 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

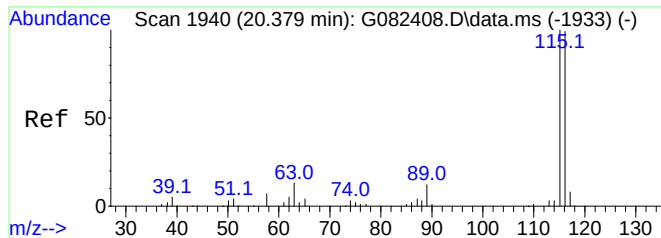
Tgt Ion:119 Resp: 35116
Ion Ratio Lower Upper
119 100
134 23.6 5.8 45.8
91 32.8 2.8 42.8



#16
INDANE
Concen: 0.13 PPBV
RT: 20.227 min Scan# 1909
Delta R.T. -0.022 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

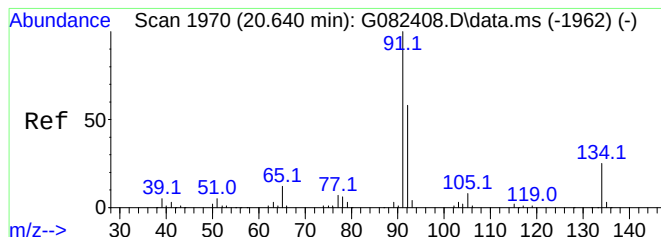
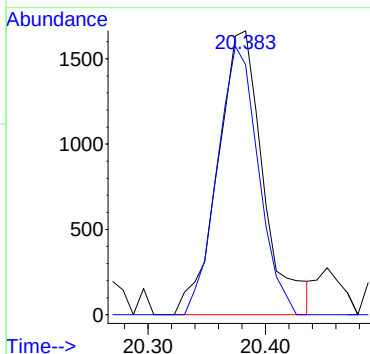
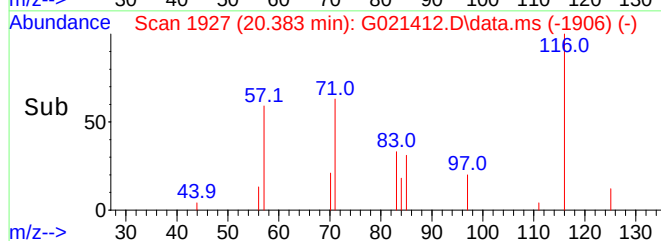
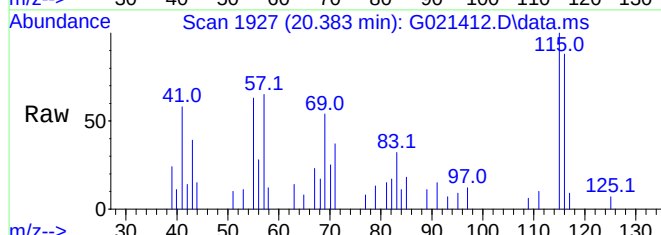
Tgt Ion:117 Resp: 13827
Ion Ratio Lower Upper
117 100
118 54.4 36.4 76.4
115 37.4 11.9 51.9





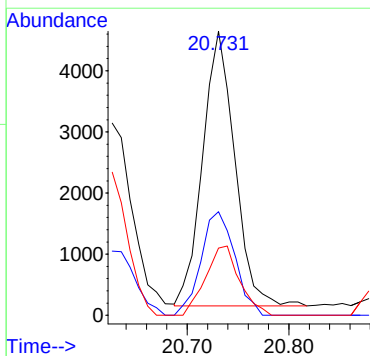
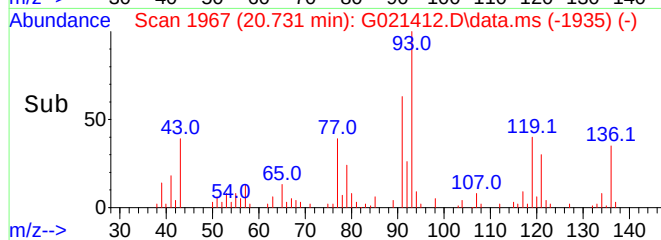
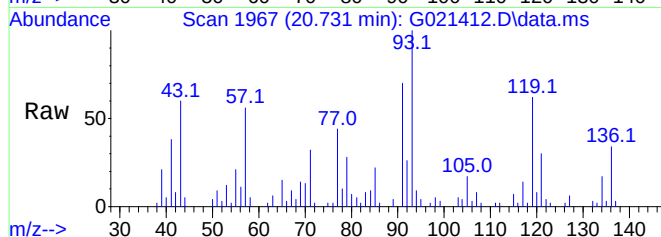
#17
INDENE
Concen: 0.05 PPBV
RT: 20.383 min Scan# 1927
Delta R.T. -0.013 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

Tgt Ion: 115 Resp: 4485
Ion Ratio Lower Upper
115 100
116 85.3 78.0 118.0



#18
BUTYLBENZENE
Concen: 0.07 PPBV
RT: 20.731 min Scan# 1967
Delta R.T. 0.082 min
Lab File: G021412.D
Acq: 14 Feb 2012 7:16 pm

Tgt Ion: 91 Resp: 9871
Ion Ratio Lower Upper
91 100
92 39.6 35.2 75.2
134 26.7 3.9 43.9



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-03 File ID: G021215.D
 Sampled: 02/08/12 14:50 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 10:50
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.33	0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform	0.81	0.036	0.10	
74-87-3	Chloromethane	0.41	0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene	0.16	0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.59	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-03 File ID: G021215.D
 Sampled: 02/08/12 14:50 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 10:50
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol		0.47	4.0	
100-41-4	Ethylbenzene	0.44	0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.19	0.030	0.10	V-05
100-42-5	Styrene	0.15	0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	0.45	0.030	0.10	
108-88-3	Toluene	3.2	0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane		0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene	0.21	0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Sub Slab Laboratory ID: 12B0323-03 File ID: G021215.D
Sampled: 02/08/12 14:50 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 10:50
Solids: Preparation: TO-15 Prep Dilution: 2
Initial/Final: 400 mL / 400 mL
Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	2.0	0.052	0.20	
95-47-6	o-Xylene	0.57	0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021215.D
 Acq On : 13 Feb 2012 10:50 am
 Sample : 12B0323-03 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 13:36:20 2012

Vial: 7
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	303999	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	947118	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	859201	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	477532	8.16	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	4.542	85	17522	0.294	PPBV	100
4) CHLOROMETHANE	4.710	50	3489	0.204	PPBV	93
10) ACROLEIN	5.902	56	1223	0.172	PPBV	93
11) ACETONE	6.033	43	304790	10.309	PPBV	93
12) TRICHLOROFLUOROMETHANE	6.163	101	24360	0.513	PPBV	98
13) ETHANOL	5.621	45	12109	1.946	PPBV	92
15) METHYLENE CHLORIDE	6.823	49	8060	0.243	PPBV	77
17) CARBON DISULFIDE	7.118	76	44366	0.525	PPBV	96
21) IPA	6.311	45	24278	0.780	PPBV	63
22) 2-BUTANONE(MEK)	8.282	43	26112	0.436	PPBV	92
25) HEXANE	8.846	41	6221	0.200	PPBV	92
27) CHLOROFORM	8.907	83	24673	0.407	PPBV	99
32) BENZENE	10.338	78	19188	0.163	PPBV	98
41) MIBK	12.419	43	8231	0.093	PPBV	90
46) TOLUENE	13.379	91	210262	1.625	PPBV	100
50) TETRACHLOROETHENE	14.683	166	12604	0.226	PPBV	96
52) ETHYLBENZENE	15.969	91	36212	0.222	PPBV	99
53) M/P-XYLENE	16.177	91	127397	0.986	PPBV	97
55) STYRENE	16.647	104	7019	0.074	PPBV	100
56) O-XYLENE	16.786	91	36679	0.285	PPBV	98
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	15016	0.107	PPBV	99
64) 1,4-DICHLOROBENZENE	19.566	146	7597	0.079	PPBV	97

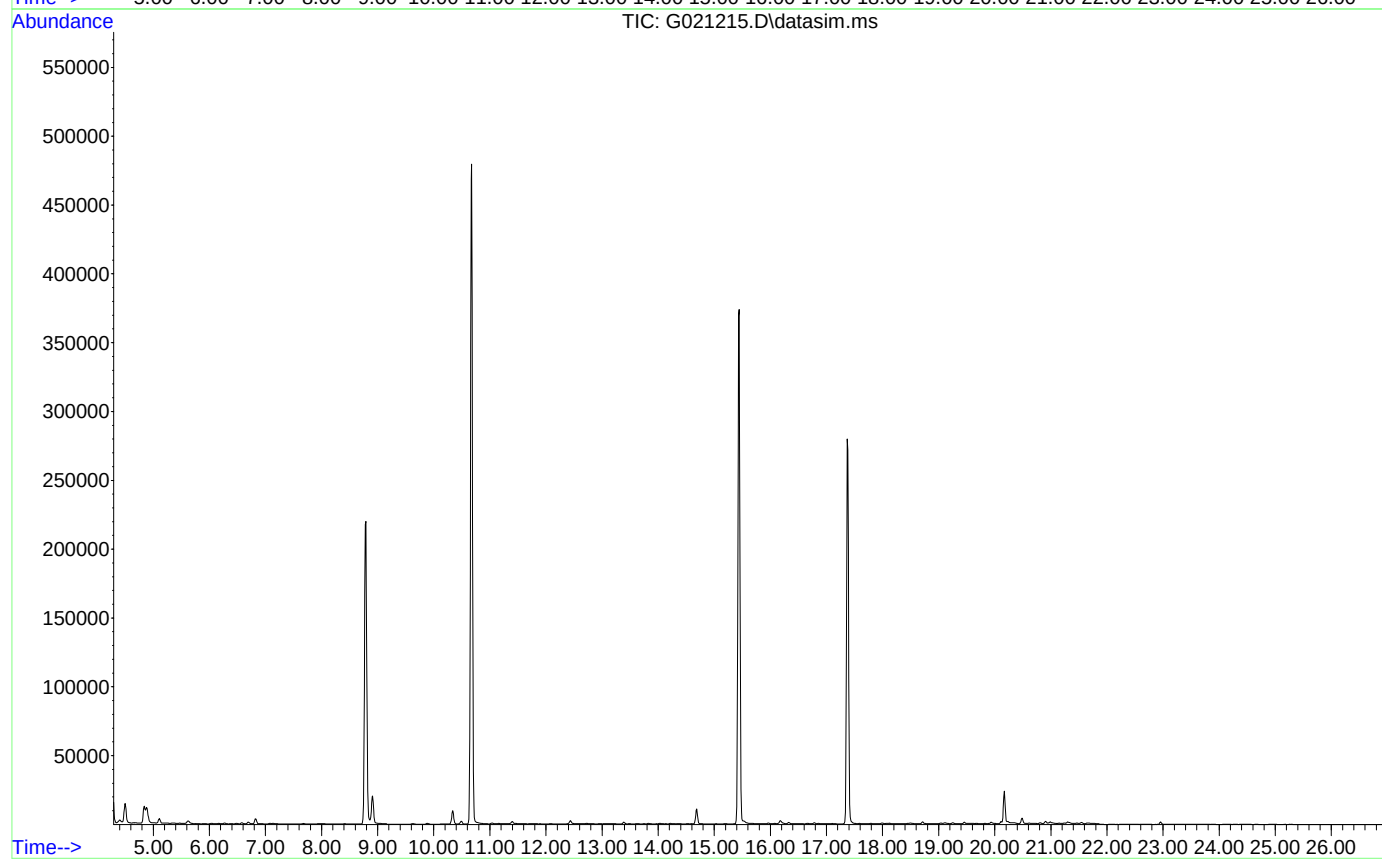
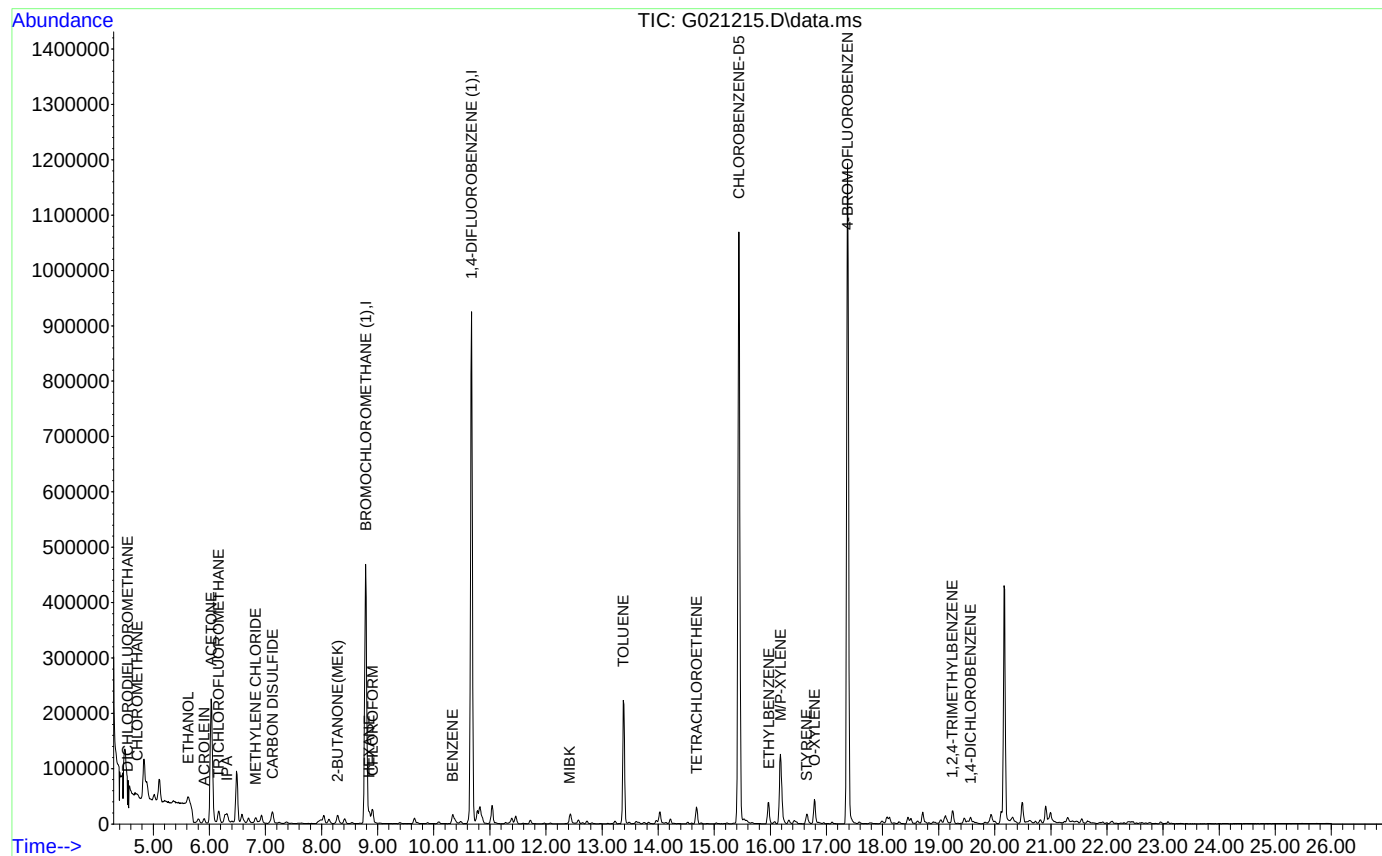
(#) = qualifier out of range (m) = manual integration (+) = signals summed

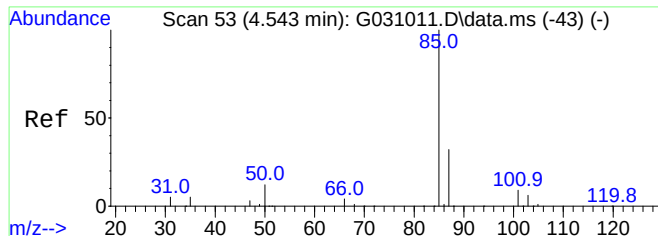
Data File : C:\msdchem\1\data\G021212\G021215.D
Acq On : 13 Feb 2012 10:50 am
Sample : 12B0323-03 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 13:36:20 2012

Vial: 7
Operator: TPH
Inst : SYSG
Multiplr: 1.00

145

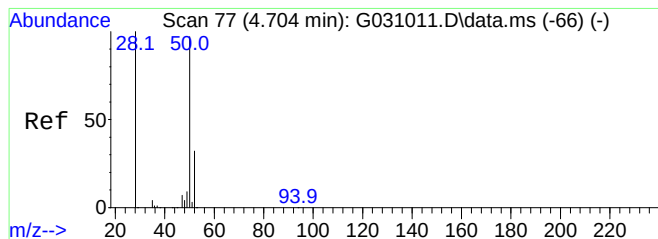
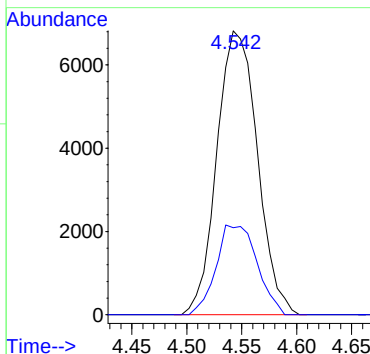
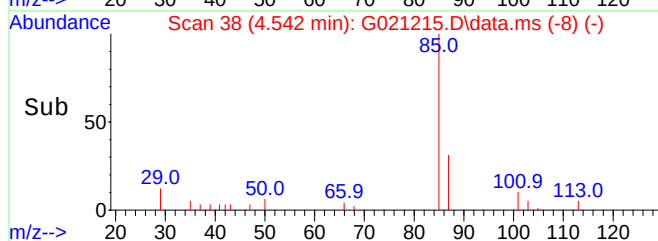
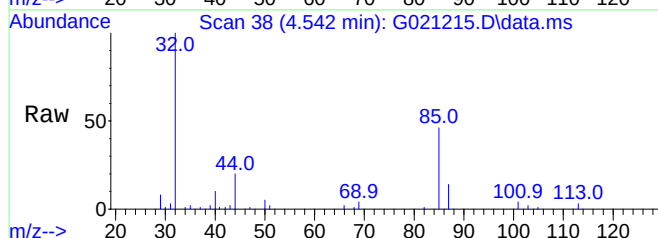
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





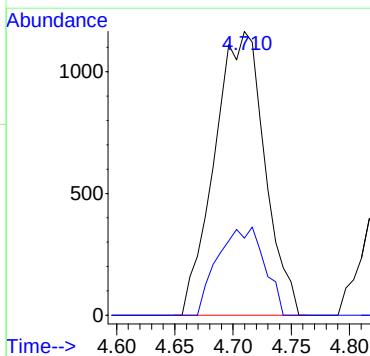
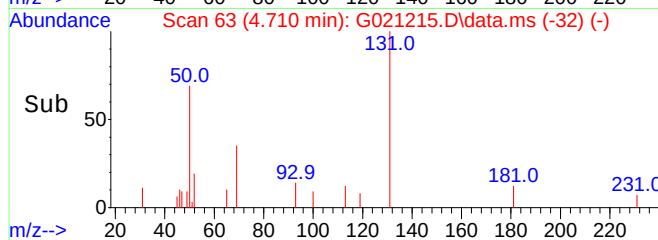
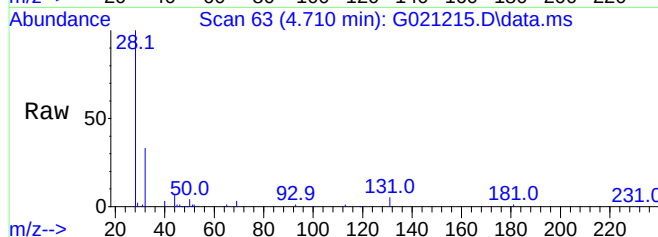
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.29 PPBV
 RT: 4.542 min Scan# 38
 Delta R.T. -0.001 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

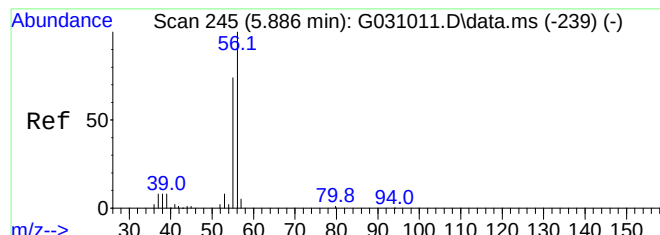
Tgt Ion: 85 Resp: 17522
 Ion Ratio Lower Upper
 85 100
 87 31.9 12.1 52.1



#4
 CHLOROMETHANE
 Concen: 0.20 PPBV
 RT: 4.710 min Scan# 63
 Delta R.T. 0.006 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

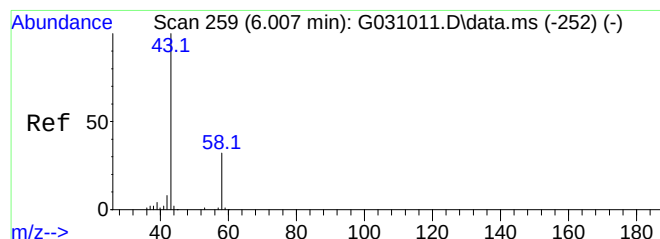
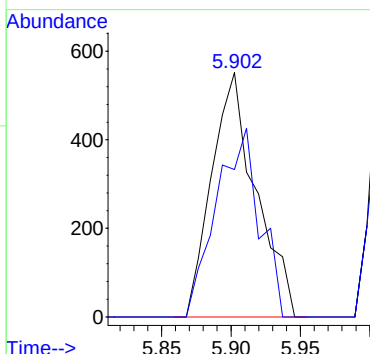
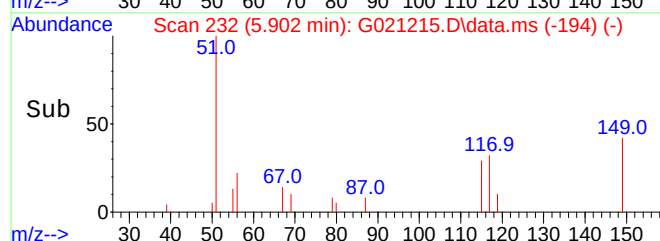
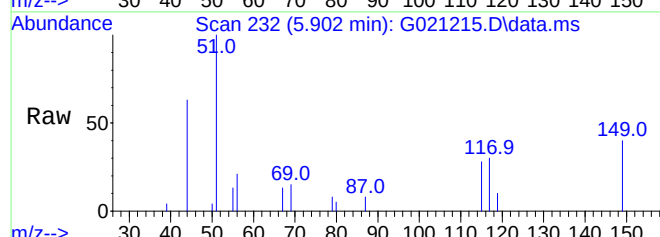
Tgt Ion: 50 Resp: 3489
 Ion Ratio Lower Upper
 50 100
 52 28.7 12.8 52.8





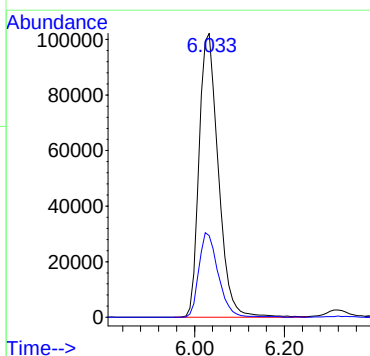
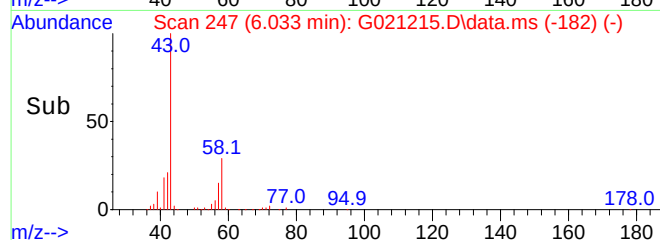
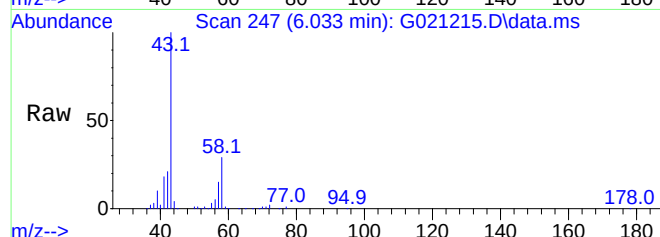
#10
ACROLEIN
Concen: 0.17 PPBV
RT: 5.902 min Scan# 232
Delta R.T. 0.017 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

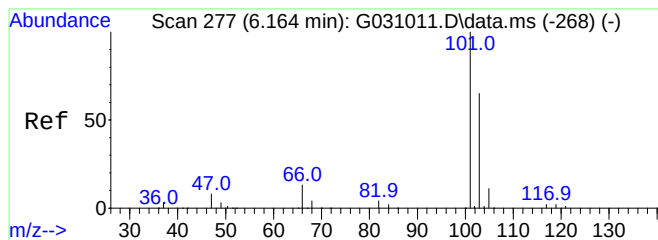
Tgt Ion: 56 Resp: 1223
Ion Ratio Lower Upper
56 100
55 75.6 56.1 84.1



#11
ACETONE
Concen: 10.31 PPBV
RT: 6.033 min Scan# 247
Delta R.T. 0.026 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

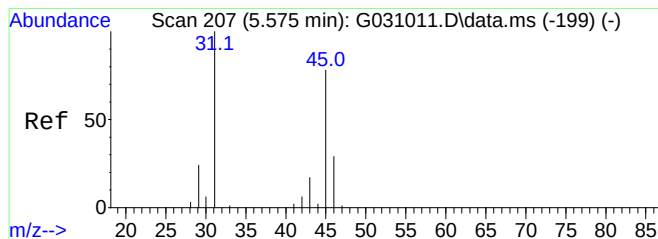
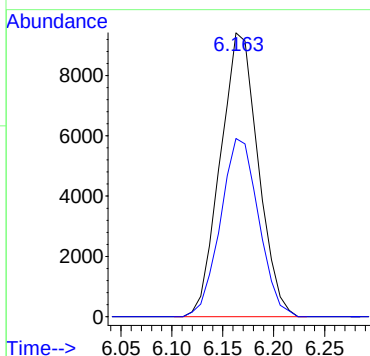
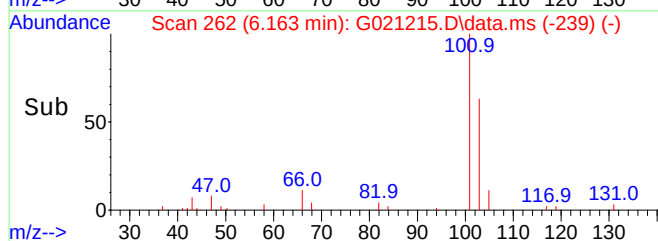
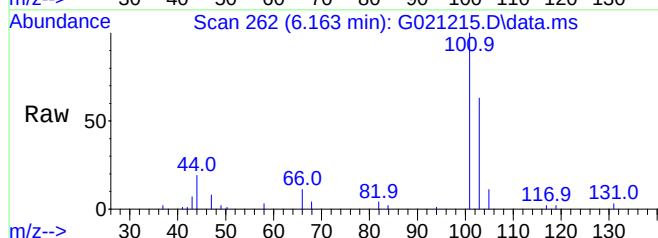
Tgt Ion: 43 Resp: 304790
Ion Ratio Lower Upper
43 100
58 30.0 13.9 53.9





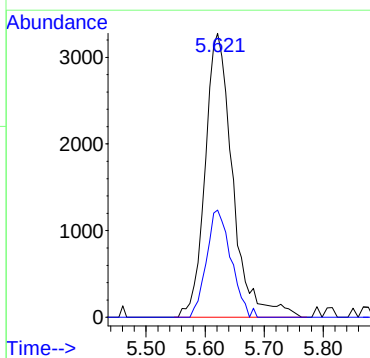
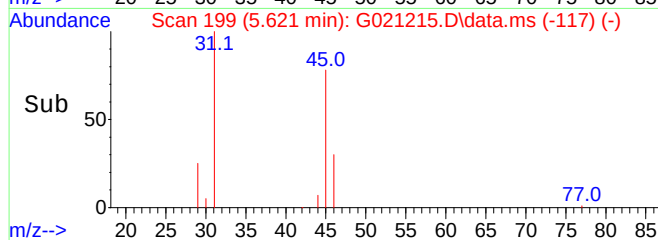
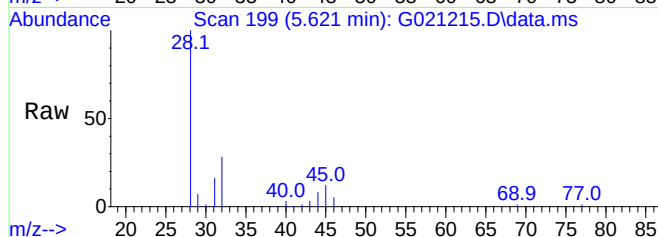
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.51 PPBV
 RT: 6.163 min Scan# 262
 Delta R.T. -0.001 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

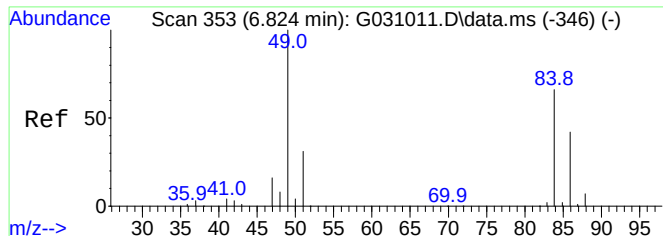
Tgt Ion: 101 Resp: 24360
 Ion Ratio Lower Upper
 101 100
 103 63.3 44.8 84.8



#13
 ETHANOL
 Concen: 1.95 PPBV
 RT: 5.621 min Scan# 199
 Delta R.T. 0.047 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

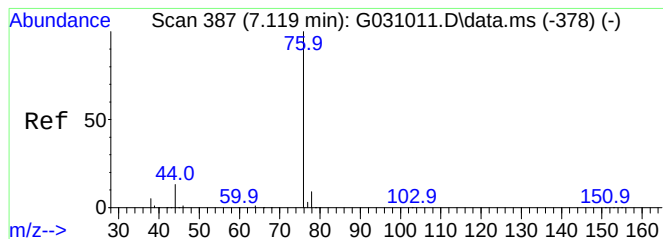
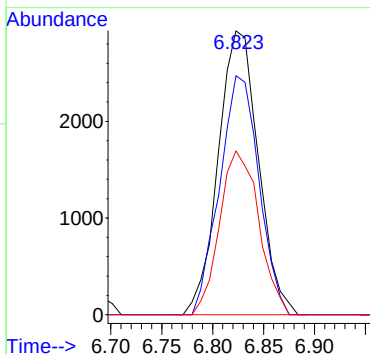
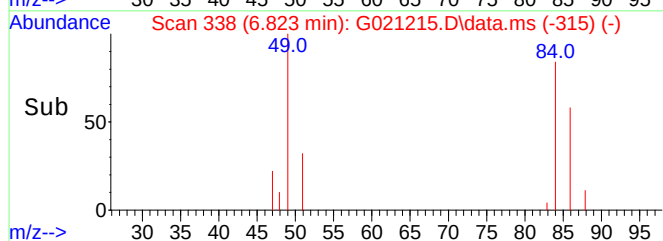
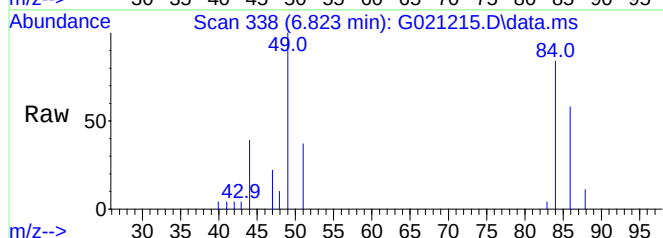
Tgt Ion: 45 Resp: 12109
 Ion Ratio Lower Upper
 45 100
 46 29.6 14.0 54.0





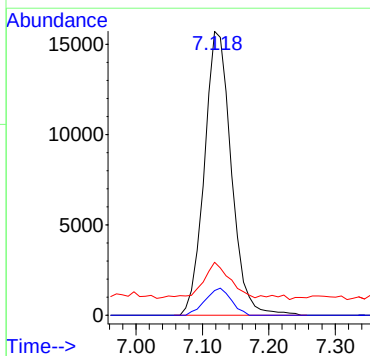
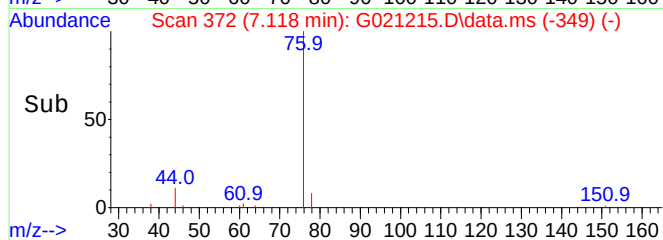
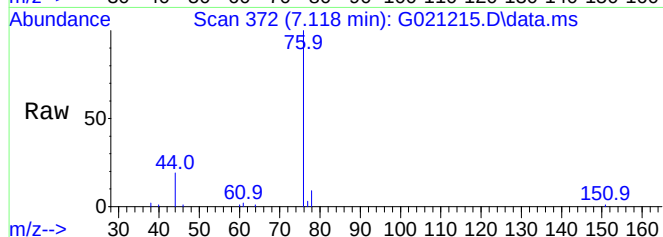
#15
METHYLENE CHLORIDE
Concen: 0.24 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

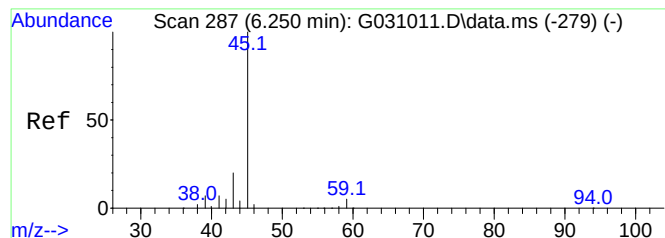
Tgt Ion: 49 Resp: 8060
Ion Ratio Lower Upper
49 100
84 82.4 45.2 85.2
86 56.3 21.4 61.4



#17
CARBON DISULFIDE
Concen: 0.52 PPBV
RT: 7.118 min Scan# 372
Delta R.T. -0.001 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

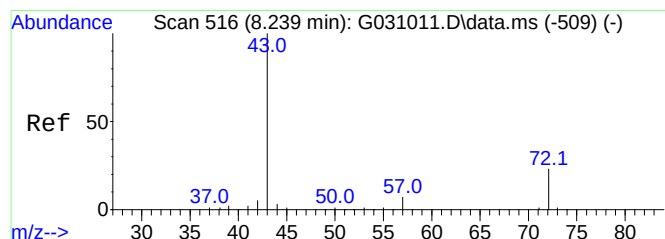
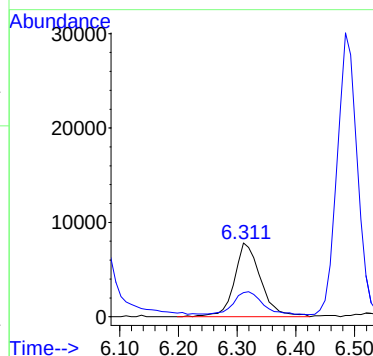
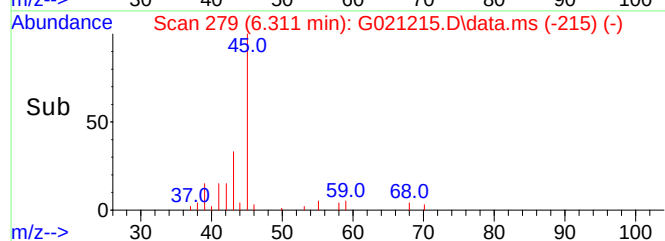
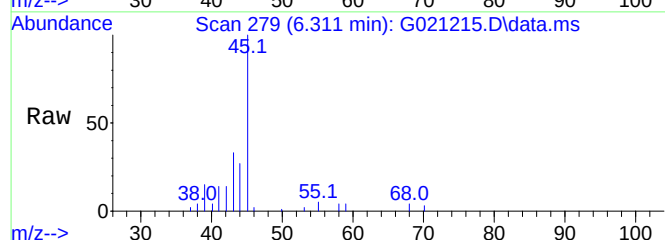
Tgt Ion: 76 Resp: 44366
Ion Ratio Lower Upper
76 100
78 9.2 0.0 30.7
44 12.0 0.0 33.4





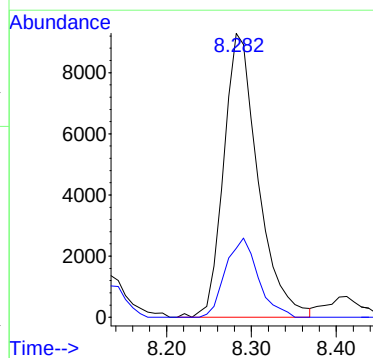
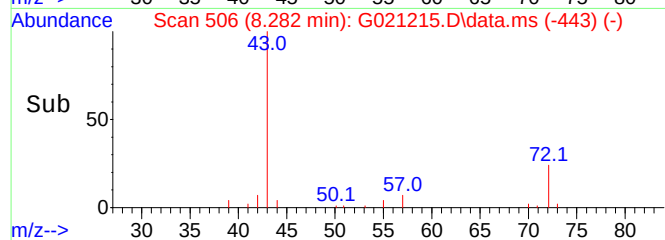
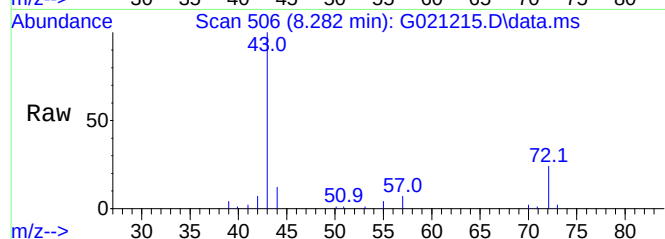
#21
IPA
Concen: 0.78 PPBV
RT: 6.311 min Scan# 279
Delta R.T. 0.061 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

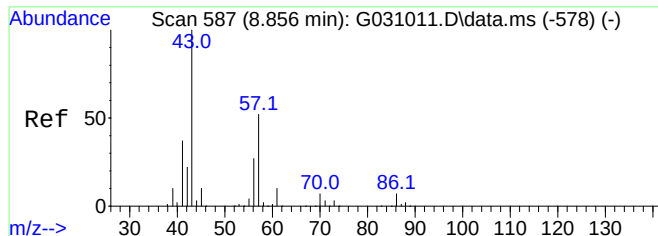
Tgt Ion: 45 Resp: 24278
Ion Ratio Lower Upper
45 100
43 37.9 0.6 40.6



#22
2-BUTANONE (MEK)
Concen: 0.44 PPBV
RT: 8.282 min Scan# 506
Delta R.T. 0.043 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

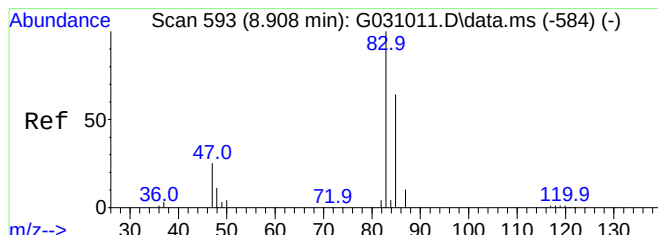
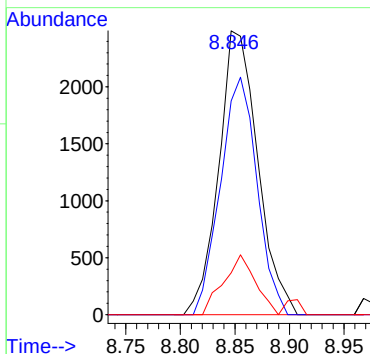
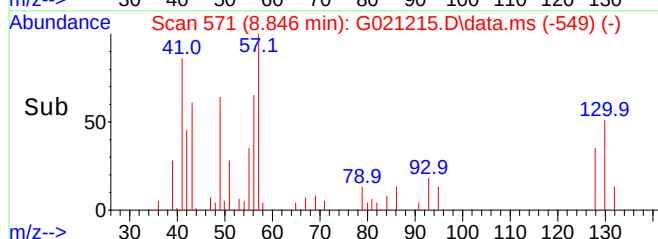
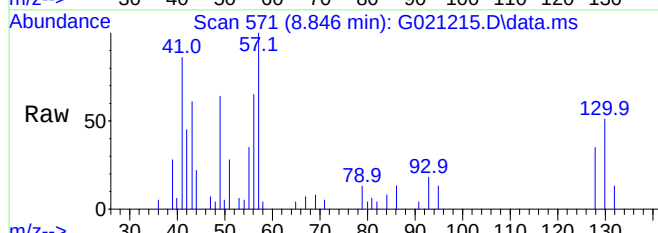
Tgt Ion: 43 Resp: 26112
Ion Ratio Lower Upper
43 100
72 26.5 2.6 42.6





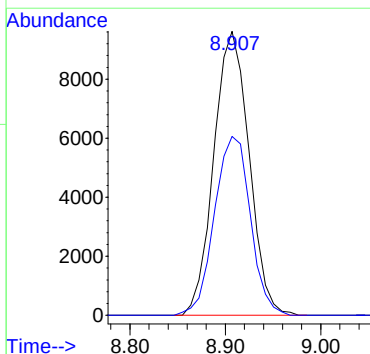
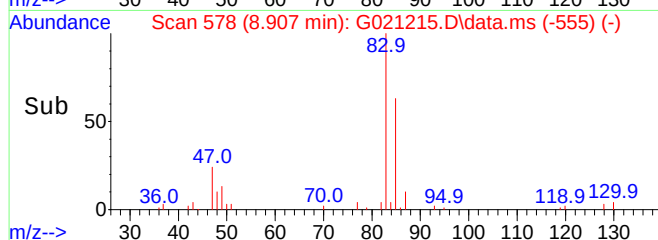
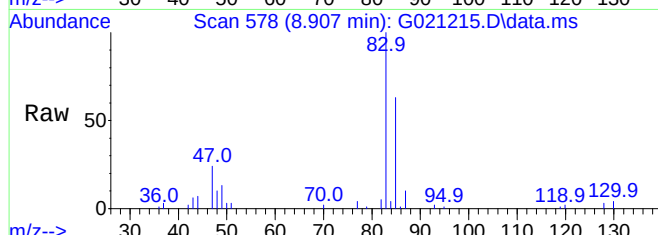
#25
HEXANE
Concen: 0.20 PPBV
RT: 8.846 min Scan# 571
Delta R.T. -0.009 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

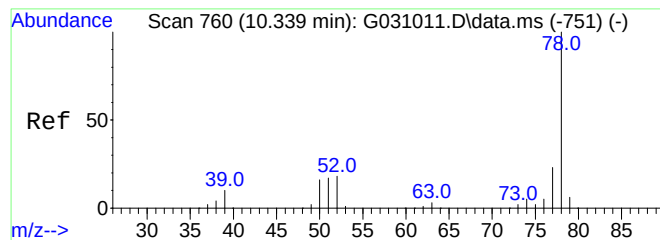
Tgt Ion: 41 Resp: 6221
Ion Ratio Lower Upper
41 100
56 78.3 50.8 90.8
86 17.3 9.6 29.6



#27
CHLOROFORM
Concen: 0.41 PPBV
RT: 8.907 min Scan# 578
Delta R.T. -0.001 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

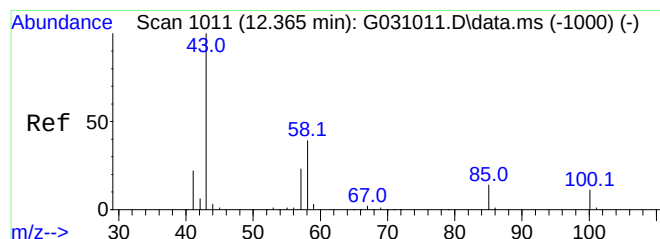
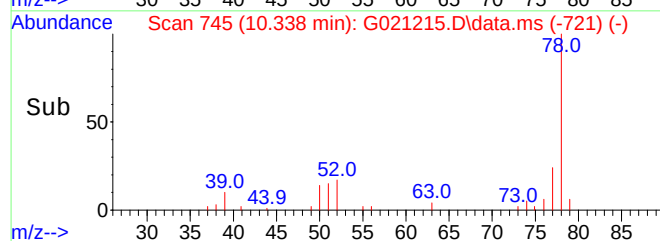
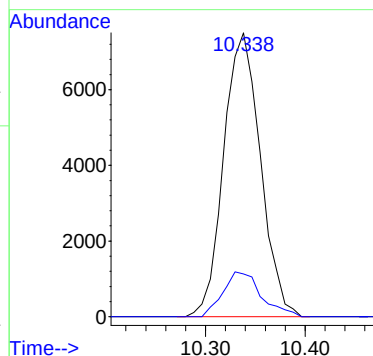
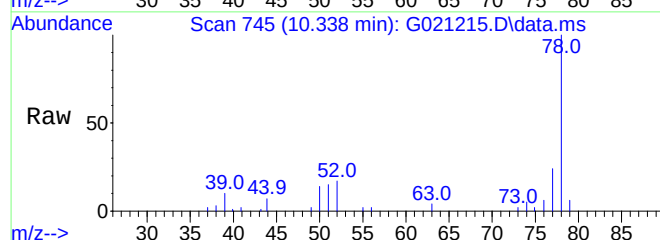
Tgt Ion: 83 Resp: 24673
Ion Ratio Lower Upper
83 100
85 64.1 44.9 84.9





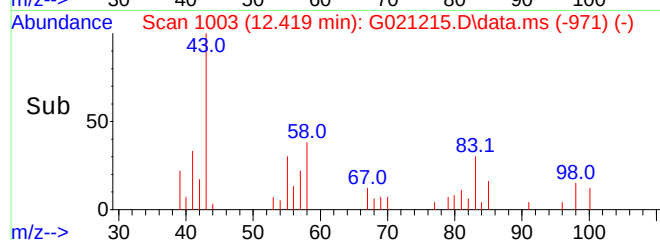
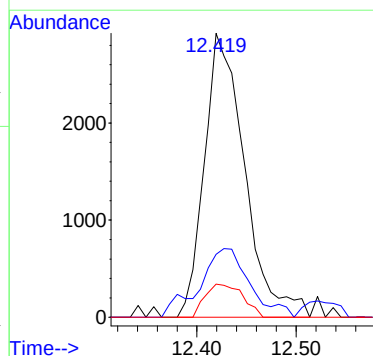
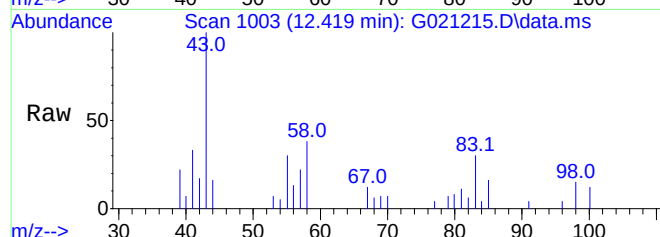
#32
BENZENE
Concen: 0.16 PPBV
RT: 10.338 min Scan# 745
Delta R.T. -0.001 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

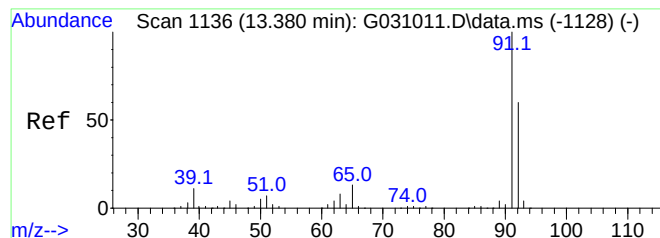
Tgt Ion: 78 Resp: 19188
Ion Ratio Lower Upper
78 100
51 16.5 0.0 37.6



#41
MIBK
Concen: 0.09 PPBV
RT: 12.419 min Scan# 1003
Delta R.T. 0.054 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

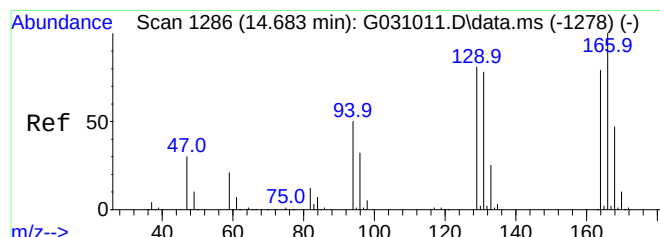
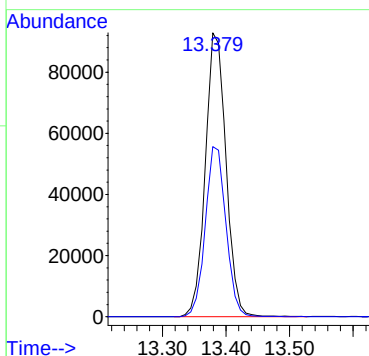
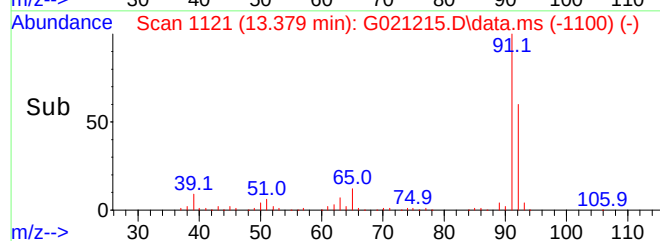
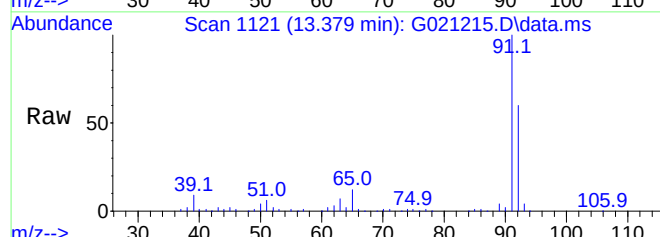
Tgt Ion: 43 Resp: 8231
Ion Ratio Lower Upper
43 100
57 30.1 2.8 42.8
100 10.9 1.0 21.0





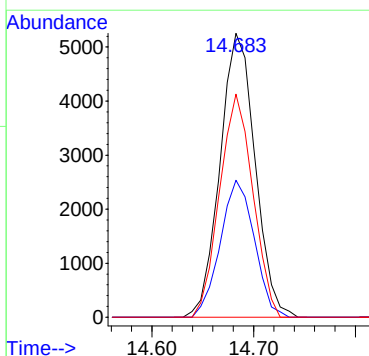
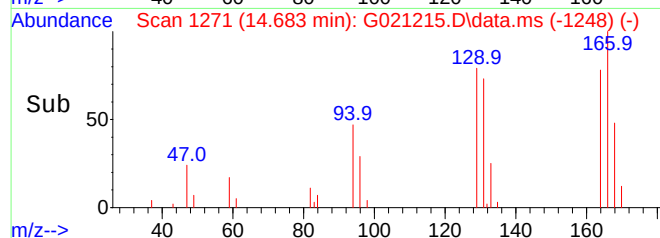
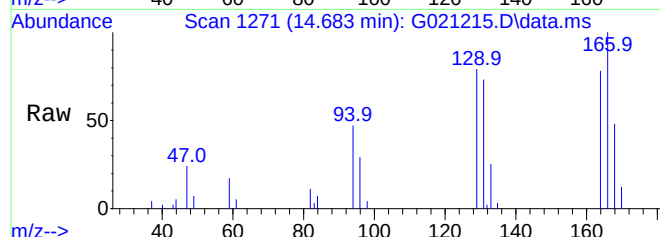
#46
 TOLUENE
 Concen: 1.62 PPBV
 RT: 13.379 min Scan# 1121
 Delta R.T. -0.001 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

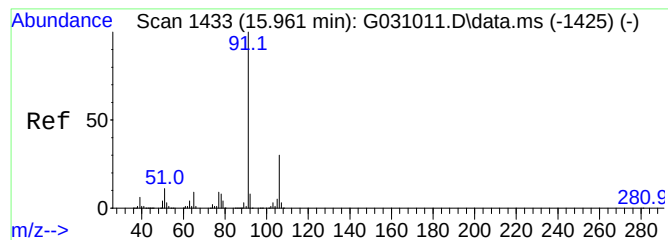
Tgt Ion: 91 Resp: 210262
 Ion Ratio Lower Upper
 91 100
 92 59.8 39.7 79.7



#50
 TETRACHLOROETHENE
 Concen: 0.23 PPBV
 RT: 14.683 min Scan# 1271
 Delta R.T. -0.001 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

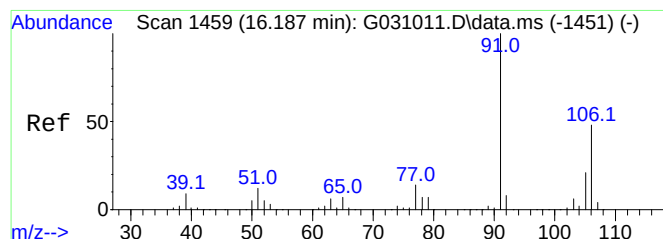
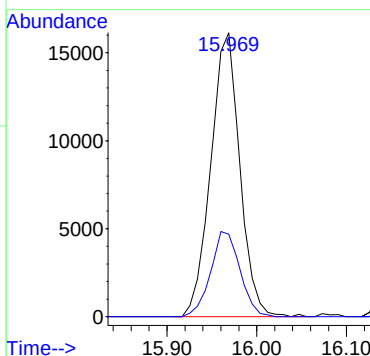
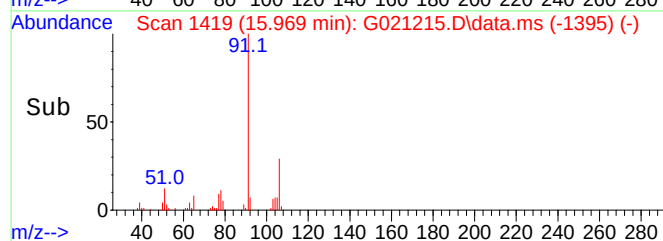
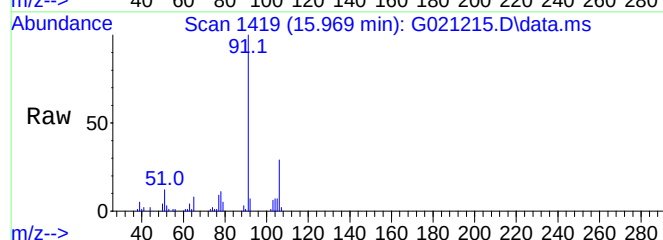
Tgt Ion: 166 Resp: 12604
 Ion Ratio Lower Upper
 166 100
 168 46.9 27.0 67.0
 129 74.5 60.6 100.6





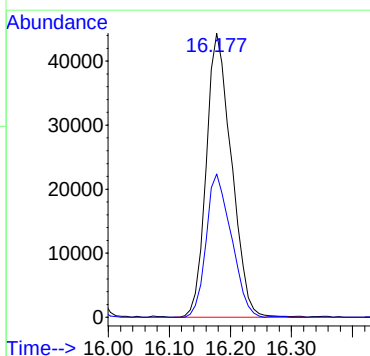
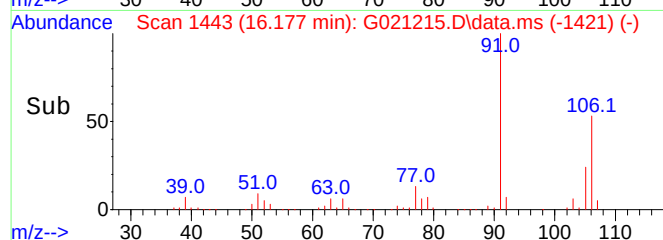
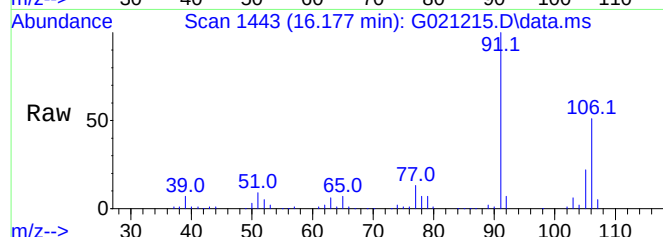
#52
ETHYLBENZENE
Concen: 0.22 PPBV
RT: 15.969 min Scan# 1419
Delta R.T. 0.008 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

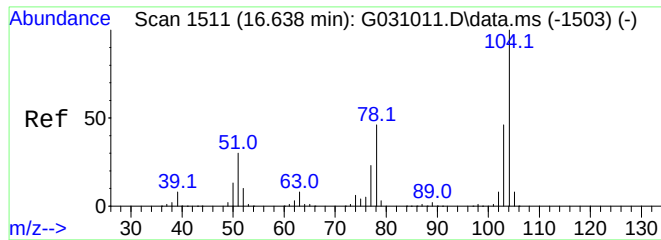
Tgt Ion: 91 Resp: 36212
Ion Ratio Lower Upper
91 100
106 30.3 10.0 50.0



#53
M/P-XYLENE
Concen: 0.99 PPBV
RT: 16.177 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

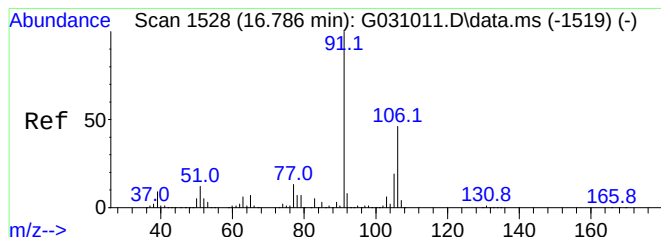
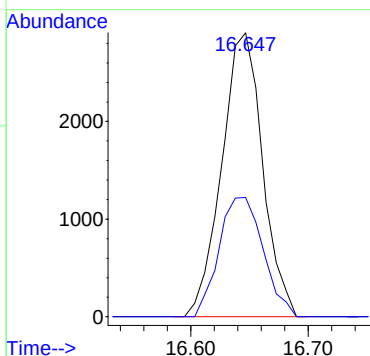
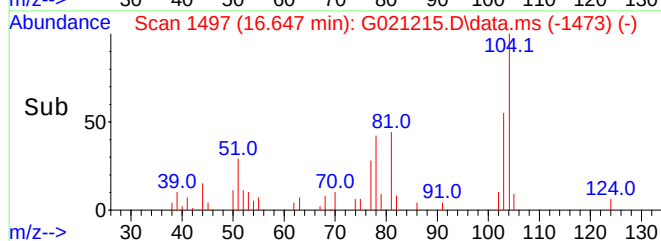
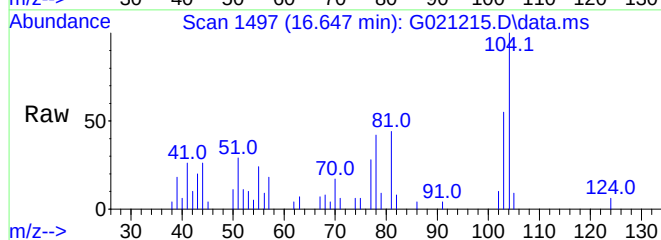
Tgt Ion: 91 Resp: 127397
Ion Ratio Lower Upper
91 100
106 50.4 28.3 68.3





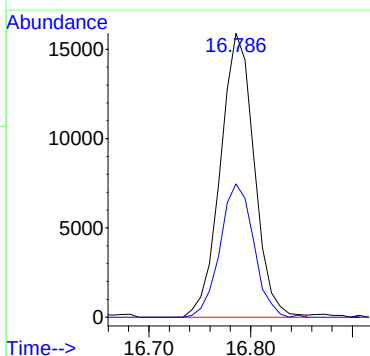
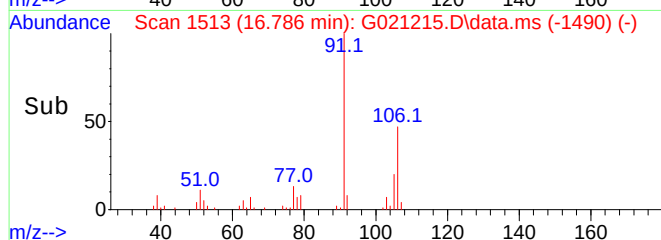
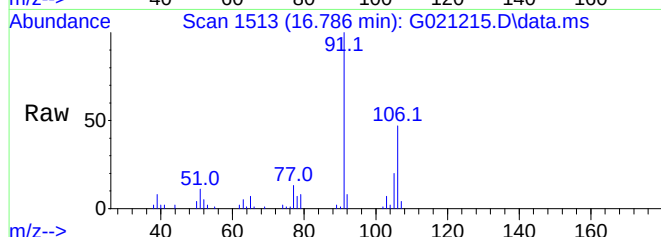
#55
 STYRENE
 Concen: 0.07 PPBV
 RT: 16.647 min Scan# 1497
 Delta R.T. 0.008 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

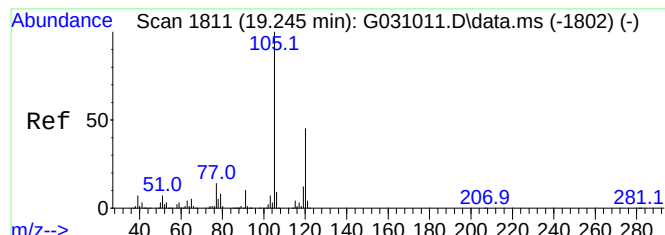
Tgt Ion: 104 Resp: 7019
 Ion Ratio Lower Upper
 104 100
 78 45.3 25.1 65.1



#56
 O-XYLENE
 Concen: 0.29 PPBV
 RT: 16.786 min Scan# 1513
 Delta R.T. -0.001 min
 Lab File: G021215.D
 Acq: 13 Feb 2012 10:50 am

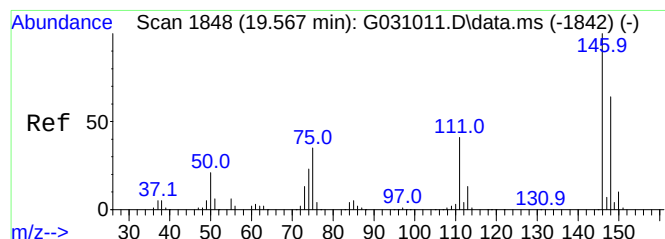
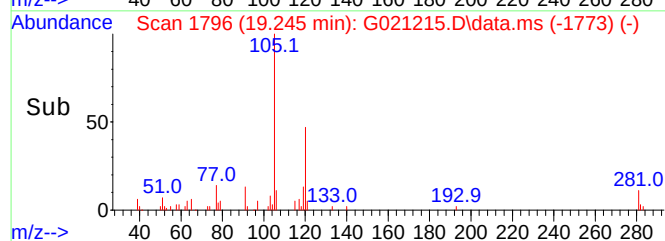
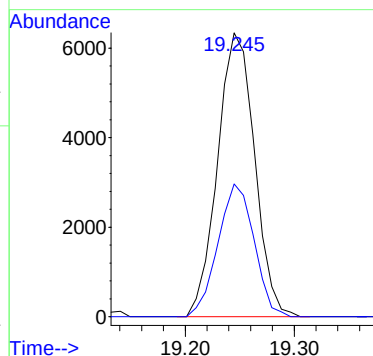
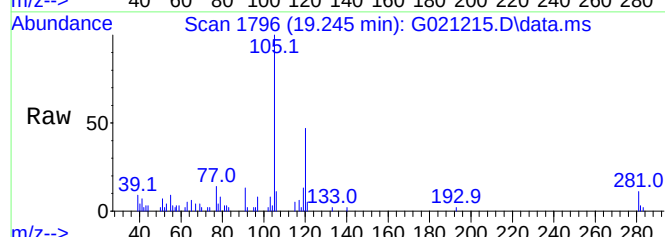
Tgt Ion: 91 Resp: 36679
 Ion Ratio Lower Upper
 91 100
 106 46.8 25.5 65.5





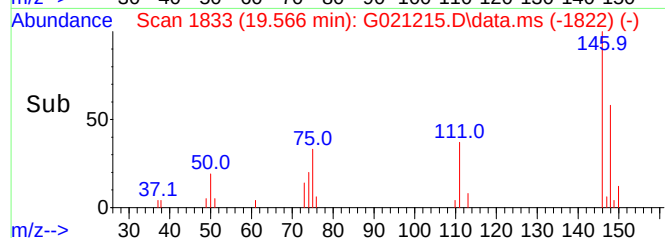
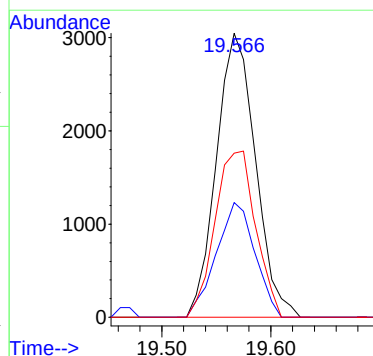
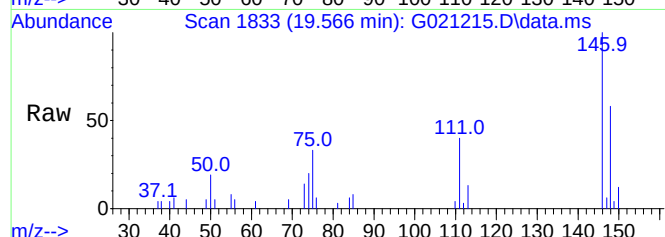
#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.11 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.001 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

Tgt Ion:105 Resp: 15016
Ion Ratio Lower Upper
105 100
120 45.5 24.8 64.8



#64
1,4-DICHLOROBENZENE
Concen: 0.08 PPBV
RT: 19.566 min Scan# 1833
Delta R.T. -0.001 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

Tgt Ion:146 Resp: 7597
Ion Ratio Lower Upper
146 100
111 40.1 21.2 61.2
148 60.8 43.1 83.1



Data File : C:\msdchem\1\data\G021212\G021215.D
 Acq On : 13 Feb 2012 10:50 am
 Sample : 12B0323-03 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 12:57:58 2012

Vial: 7
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

157

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	946841	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	175079	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	625742	9.45	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	118.12%
Target Compounds						
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	10906	0.080	PPBV	77
6) METHYLCYCLOHEXANE	12.435	83	3926	0.070	PPBV	# 41
15) P-CYMENE	19.931	119	9509	0.067	PPBV	88

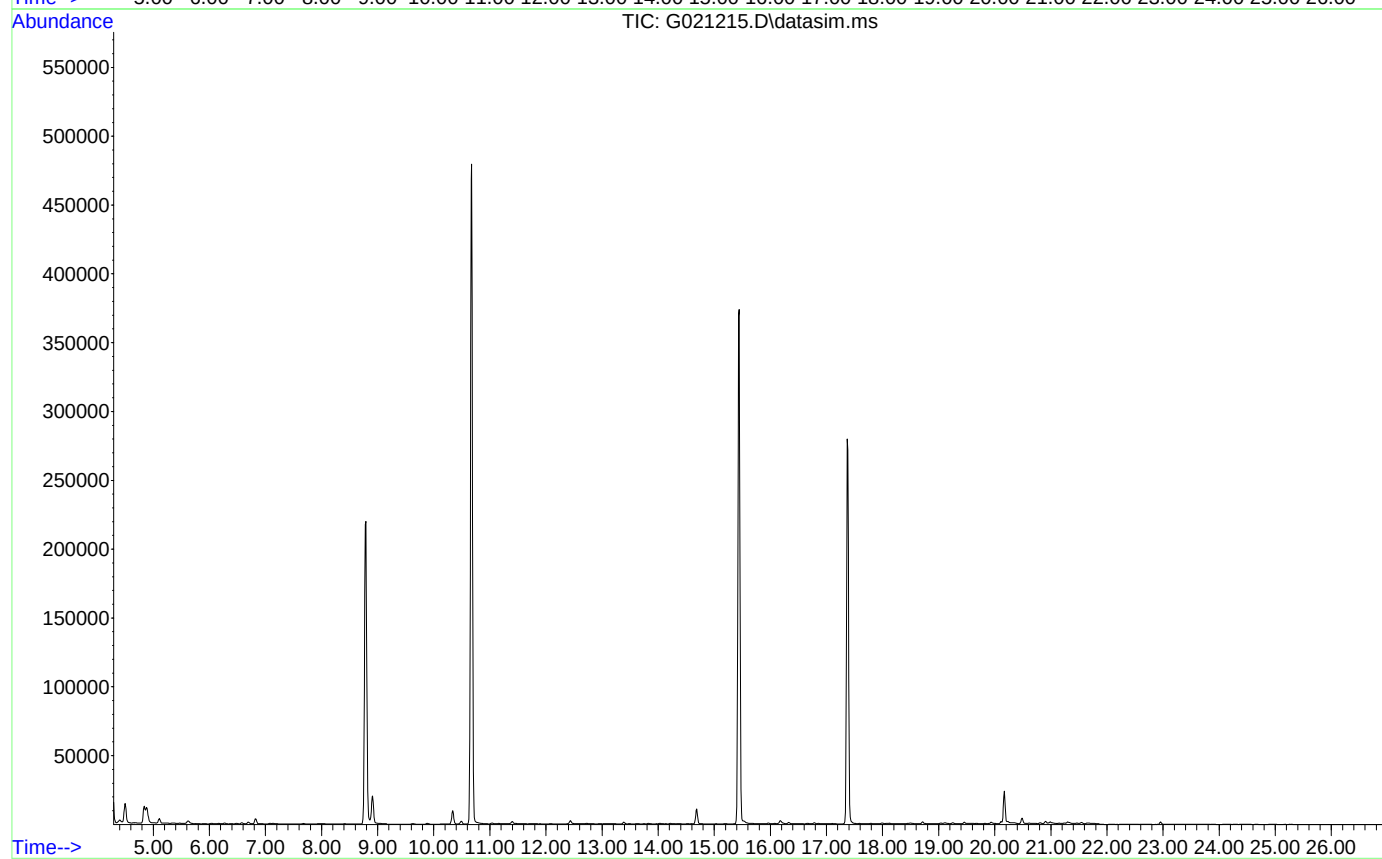
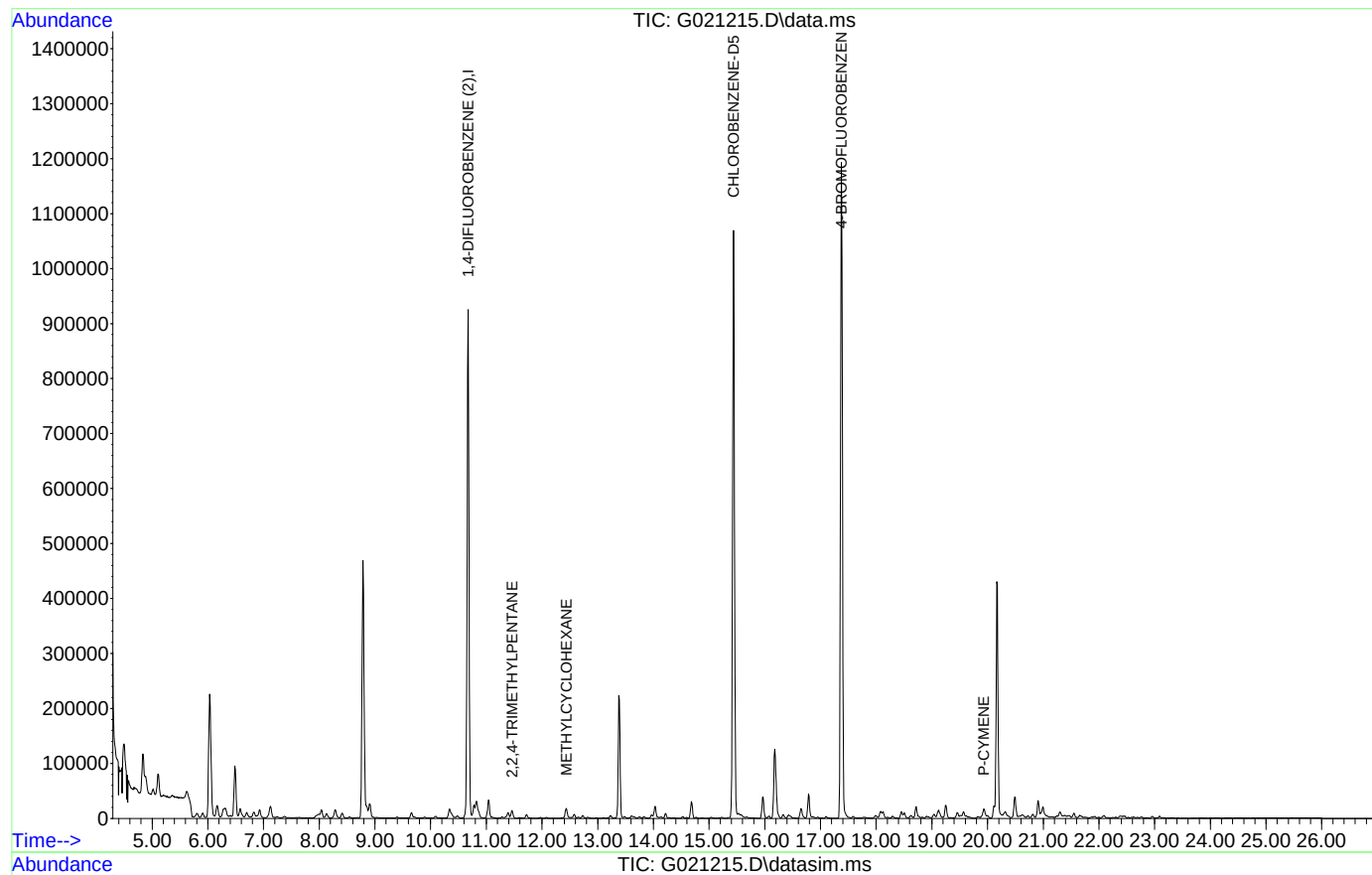
(#) = qualifier out of range (m) = manual integration (+) = signals summed

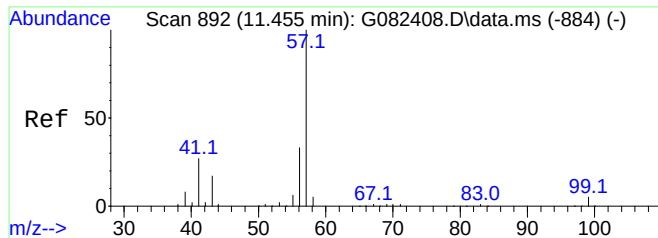
Data File : C:\msdchem\1\data\G021212\G021215.D
Acq On : 13 Feb 2012 10:50 am
Sample : 12B0323-03 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:57:58 2012

Vial: 7
Operator: TPH
Inst : SYSG
Multiplr: 1.00

158

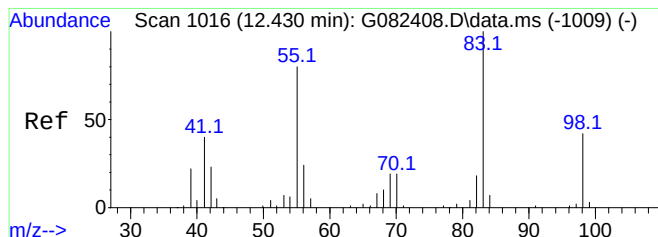
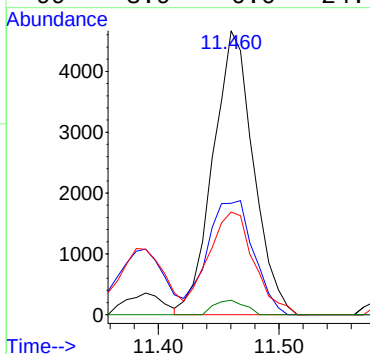
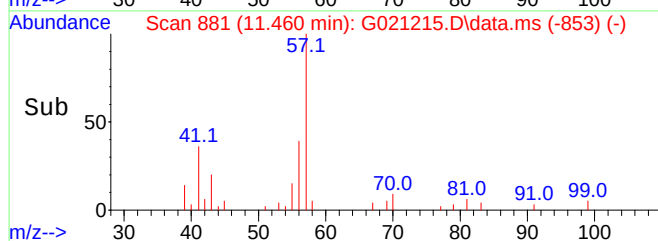
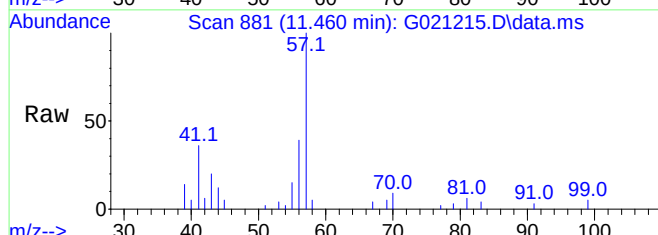
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Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





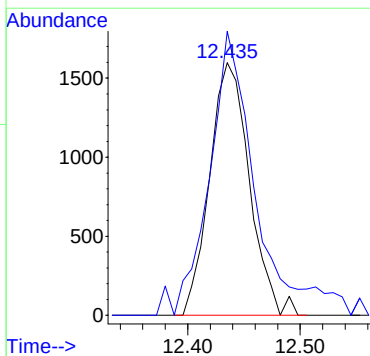
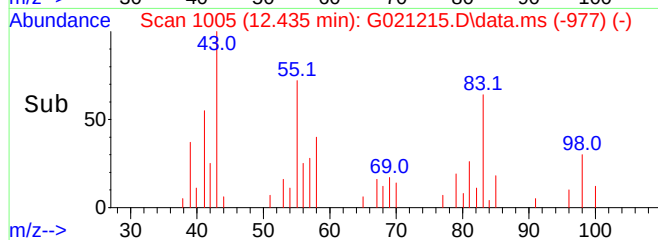
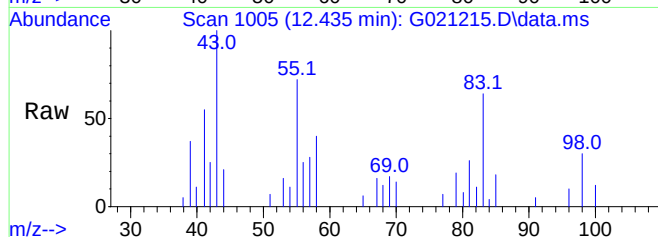
#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.08 PPBV
RT: 11.460 min Scan# 881
Delta R.T. 0.021 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

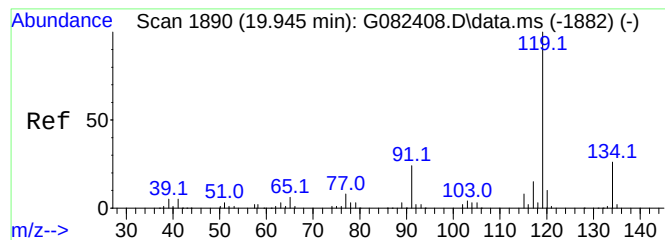
Tgt Ion: 57 Resp: 10906
Ion Ratio Lower Upper
57 100
56 46.0 13.7 53.7
41 40.9 5.8 45.8
99 3.9 0.0 24.7



#6
METHYLCYCLOHEXANE
Concen: 0.07 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.021 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

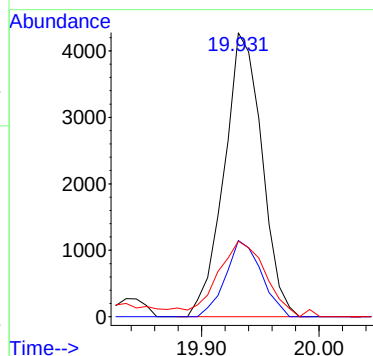
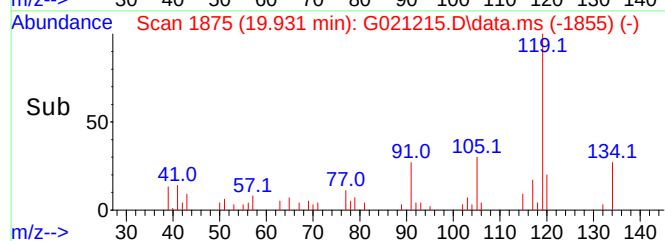
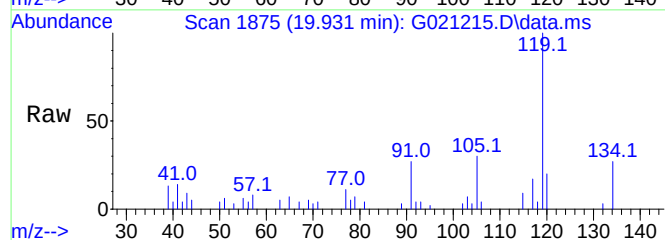
Tgt Ion: 83 Resp: 3926
Ion Ratio Lower Upper
83 100
55 133.0 60.5 100.5#





#15
P-CYMENE
Concen: 0.07 PPBV
RT: 19.931 min Scan# 1875
Delta R.T. -0.022 min
Lab File: G021215.D
Acq: 13 Feb 2012 10:50 am

Tgt Ion:119 Resp: 9509
Ion Ratio Lower Upper
119 100
134 25.5 5.8 45.8
91 35.1 2.8 42.8



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-04 File ID: G021413.D
 Sampled: 02/08/12 14:50 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 20:02
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.88	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.060	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform	0.057	0.013	0.035	
74-87-3	Chloromethane	0.54	0.018	0.035	
110-82-7	Cyclohexane	0.26	0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.52	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane	0.039	0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-04 File ID: G021413.D
 Sampled: 02/08/12 14:50 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 20:02
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	10	0.17	1.4	
100-41-4	Ethylbenzene	0.56	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.56	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.088	0.011	0.035	
100-42-5	Styrene	0.14	0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene		0.011	0.035	
108-88-3	Toluene	5.8	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.30	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.077	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene	0.31	0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene	0.078	0.011	0.035	
540-84-1	2,2,4-Trimethylpentane	0.29	0.030	0.094	V-05
75-01-4	Vinyl Chloride	0.049	0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA02

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-04	File ID:	G021413.D		
Sampled:	02/08/12 14:50	Prepared:	02/14/12 10:43	Analyzed:	02/14/12 20:02		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	2.1	0.018	0.070	
95-47-6	o-Xylene	0.64	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021413.D
 Acq On : 14 Feb 2012 8:02 pm
 Sample : 12B0323-04 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:47:31 2012

Vial: 5
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	302284	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	953546	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	874144	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	489871	8.23	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.88%
Target Compounds						
						Qvalue
2) PROPENE	4.475	41	111923	5.647	PPBV	83
3) DICHLORODIFLUOROMETHANE	4.542	85	43651	0.737	PPBV	100
4) CHLOROMETHANE	4.697	50	12991	0.763	PPBV	98
6) VINYL CHLORIDE	4.924	62	1415	0.070	PPBV	93
10) ACROLEIN	5.877	56	3679	0.519	PPBV	87
11) ACETONE	5.998	43	899732	30.605	PPBV	89
12) TRICHLOROFLUOROMETHANE	6.163	101	20320	0.430	PPBV	99
13) ETHANOL	5.568	45	91577	14.803	PPBV	92
15) METHYLENE CHLORIDE	6.823	49	26367	0.801	PPBV	82
16) FREON 113	7.075	101	5867	0.110	PPBV	87
21) IPA	6.241	45	252672	8.169	PPBV	85
22) 2-BUTANONE(MEK)	8.239	43	51408	0.863	PPBV	87
25) HEXANE	8.847	41	31001	1.003	PPBV	94
26) ETHYL ACETATE	8.847	61	6732	0.640	PPBV	94
27) CHLOROFORM	8.907	83	4881	0.081	PPBV	87
29) 1,2-DICHLOROETHANE	9.624	62	2225	0.055	PPBV	# 95
32) BENZENE	10.330	78	148836	1.259	PPBV	94
33) CARBON TETRACHLORIDE	10.488	117	4886	0.086	PPBV	83
34) CYCLOHEXANE	10.630	84	18458	0.370	PPBV	80
40) HEPTANE	11.720	57	13137	0.370	PPBV	94
41) MIBK	12.388	43	11110	0.125	PPBV	80
46) TOLUENE	13.380	91	1085625	8.245	PPBV	99
52) ETHYLBENZENE	15.960	91	133784	0.805	PPBV	98
53) M/P-XYLENE	16.178	91	384918	2.928	PPBV	95
55) STYRENE	16.638	104	19633	0.205	PPBV	98
56) O-XYLENE	16.786	91	119428	0.913	PPBV	95
59) 4-ETHYLTOLUENE	18.515	105	19456	0.112	PPBV	98
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	15923	0.111	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	63574	0.447	PPBV	96
67) NAPHTHALENE	22.946	128	15797	0.084	PPBV	98

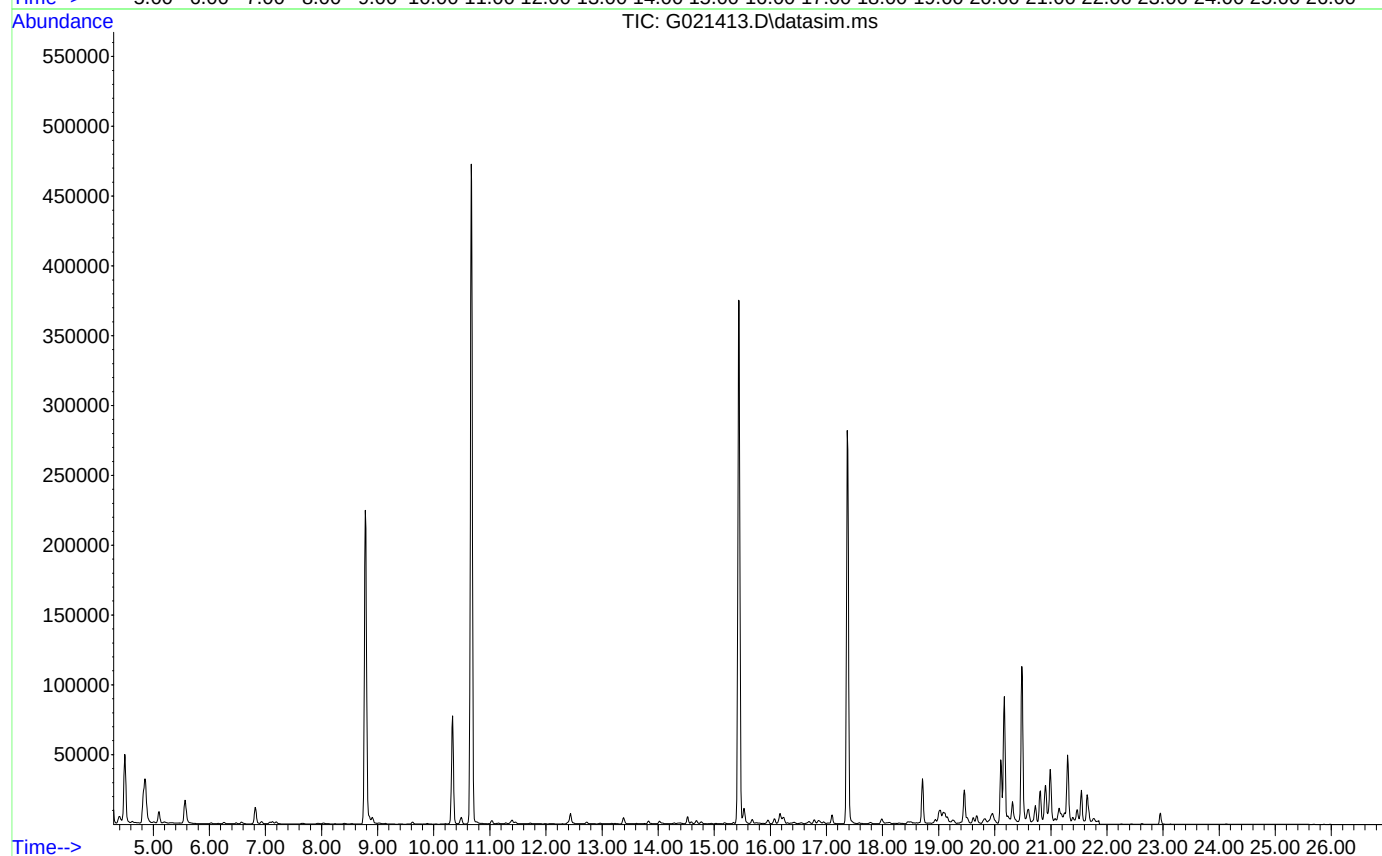
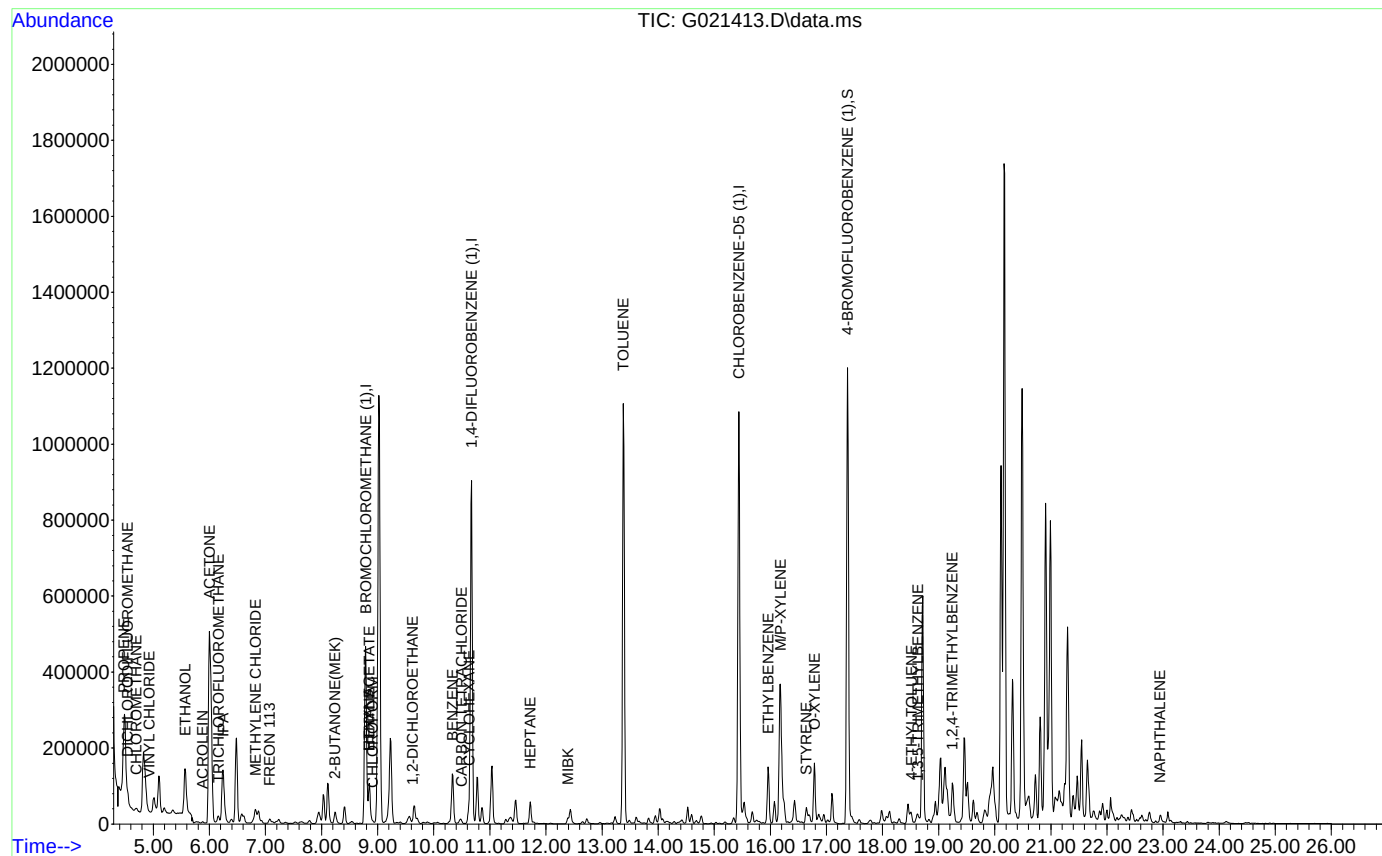
(#) = qualifier out of range (m) = manual integration (+) = signals summed

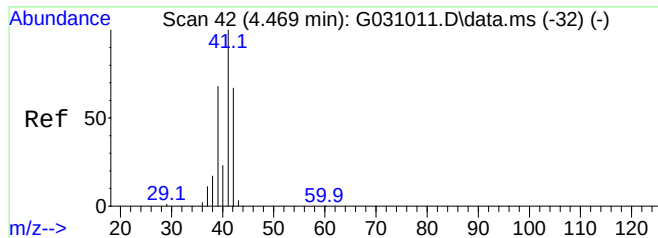
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Sample : 12B0323-04 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:47:31 2012

Vial: 5
Operator: WSD
Inst : SYSG
Multiplr: 1.00

165

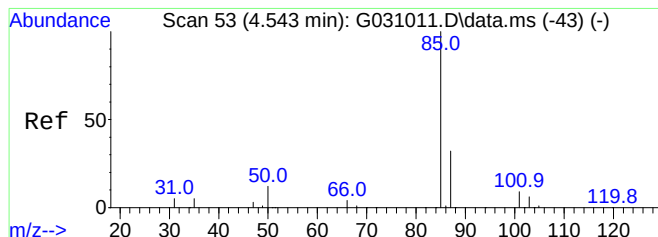
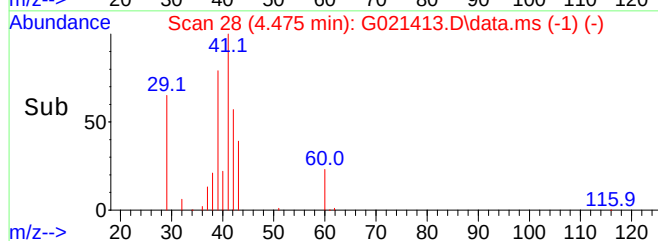
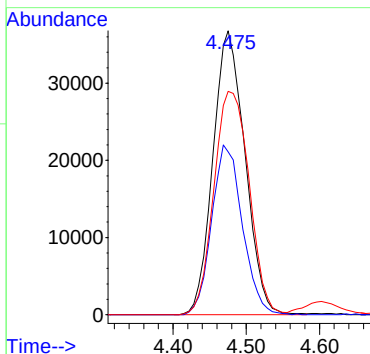
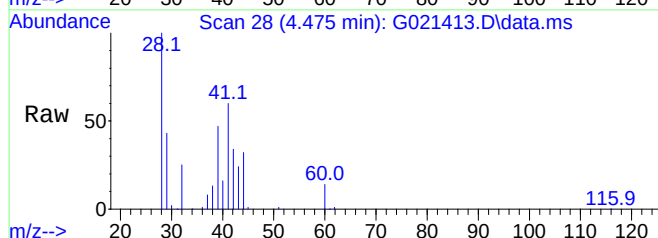
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





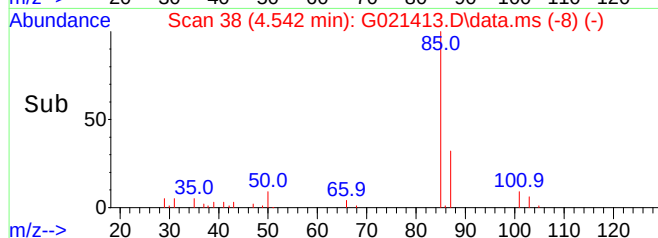
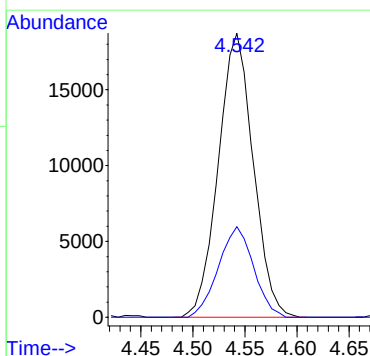
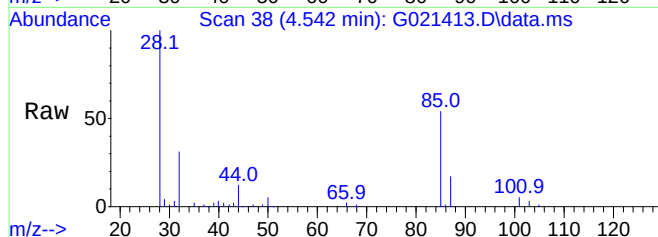
#2
PROPENE
Concen: 5.65 PPBV
RT: 4.475 min Scan# 28
Delta R.T. 0.007 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

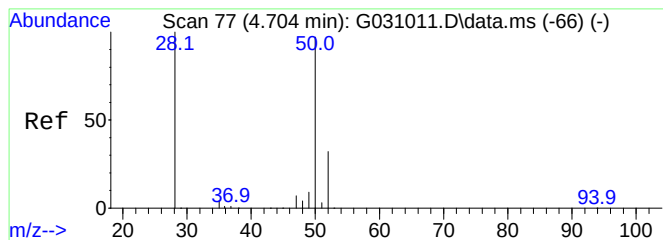
Tgt Ion: 41 Resp: 111923
Ion Ratio Lower Upper
41 100
42 57.1 46.4 86.4
39 86.6 48.8 88.8



#3
DICHLORODIFLUOROMETHANE
Concen: 0.74 PPBV
RT: 4.542 min Scan# 38
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

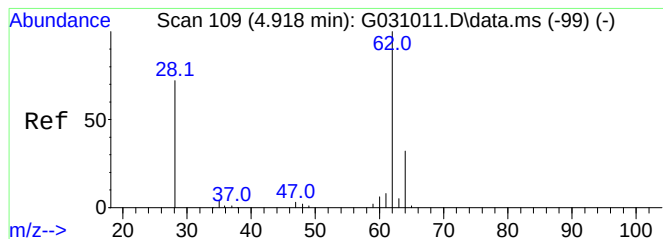
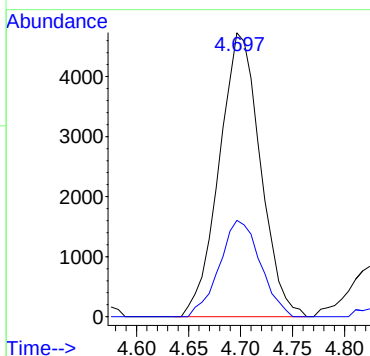
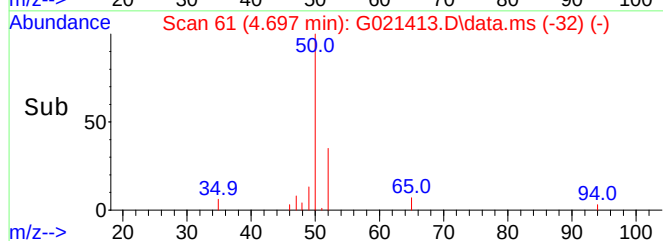
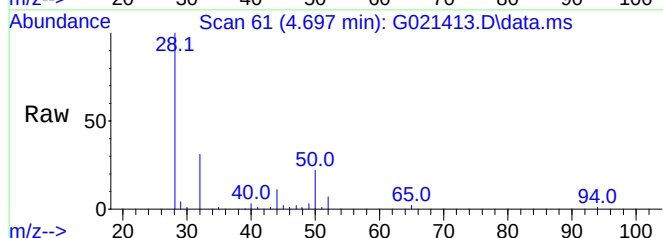
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Ion Ratio Lower Upper
85 100
87 32.1 12.1 52.1





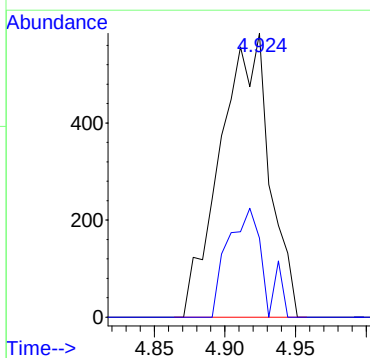
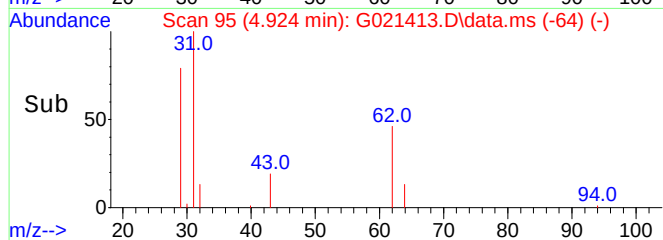
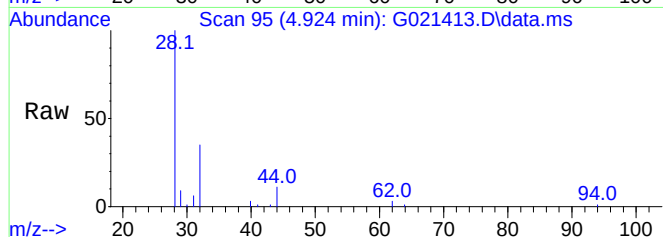
#4
CHLOROMETHANE
Concen: 0.76 PPBV
RT: 4.697 min Scan# 61
Delta R.T. -0.007 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

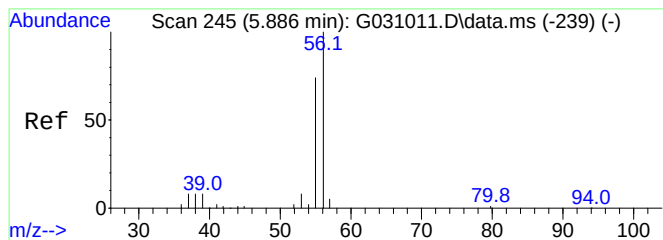
Tgt Ion: 50 Resp: 12991
Ion Ratio Lower Upper
50 100
52 33.7 12.8 52.8



#6
VINYL CHLORIDE
Concen: 0.07 PPBV
RT: 4.924 min Scan# 95
Delta R.T. 0.006 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

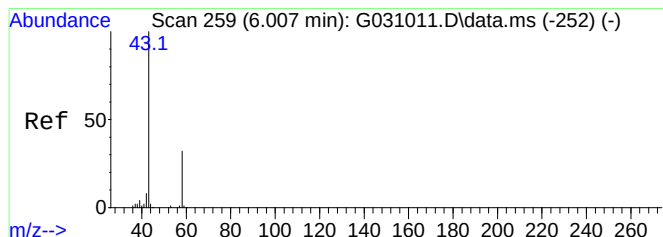
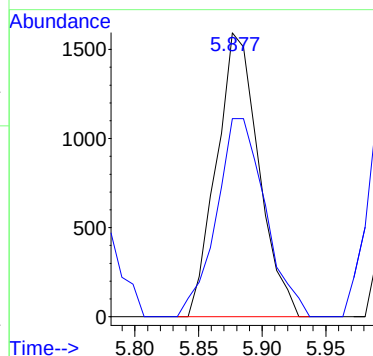
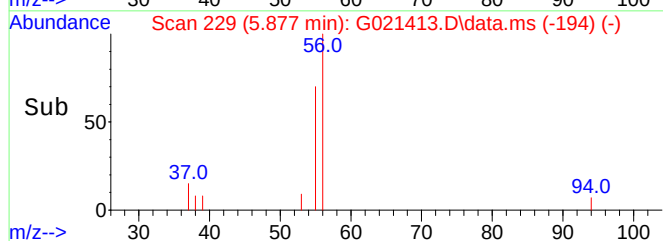
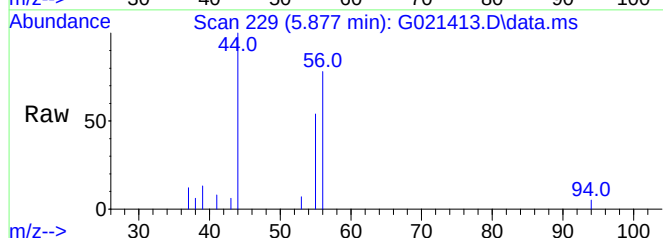
Tgt Ion: 62 Resp: 1415
Ion Ratio Lower Upper
62 100
64 27.9 11.8 51.8





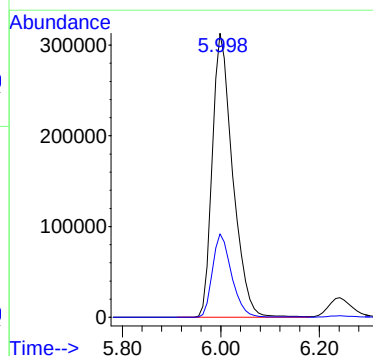
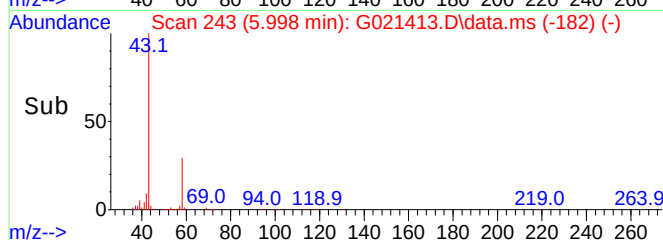
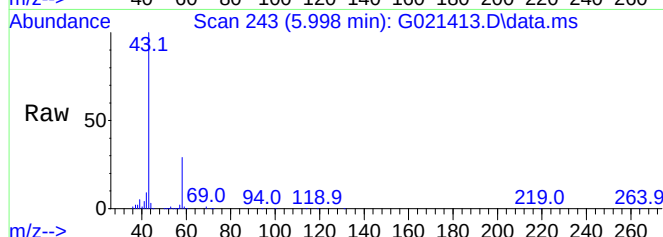
#10
ACROLEIN
Concen: 0.52 PPBV
RT: 5.877 min Scan# 229
Delta R.T. -0.008 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

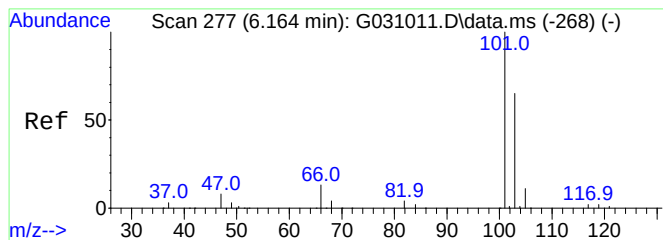
Tgt Ion: 56 Resp: 3679
Ion Ratio Lower Upper
56 100
55 80.9 56.1 84.1



#11
ACETONE
Concen: 30.61 PPBV
RT: 5.998 min Scan# 243
Delta R.T. -0.009 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

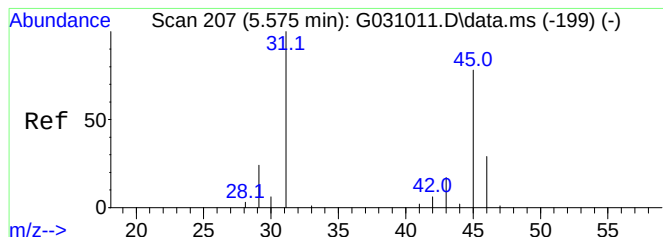
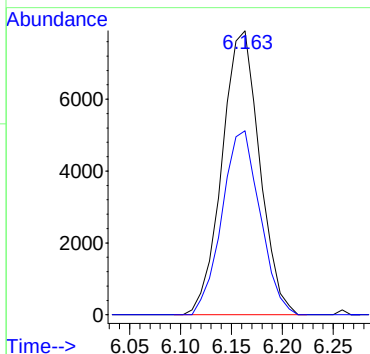
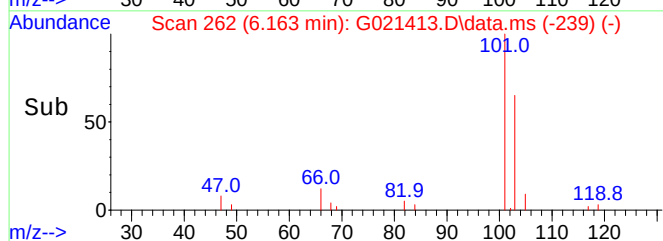
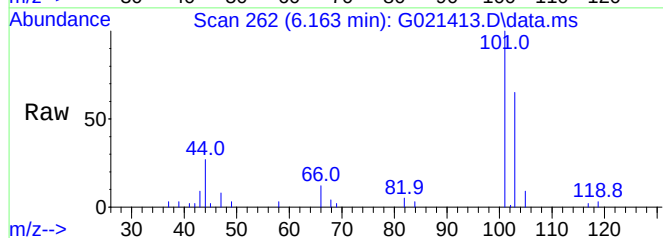
Tgt Ion: 43 Resp: 899732
Ion Ratio Lower Upper
43 100
58 27.5 43.1 53.9





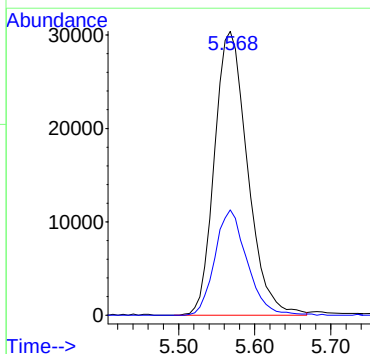
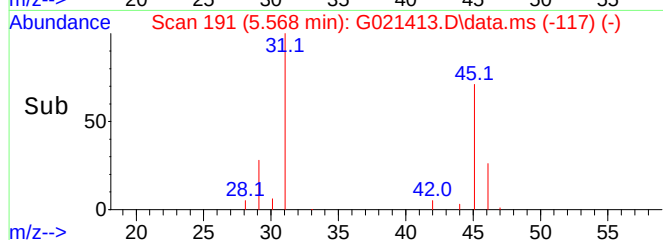
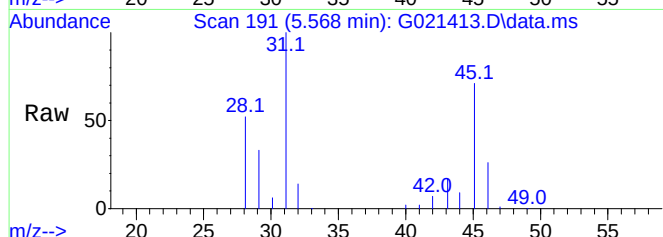
#12
TRICHLOROFLUOROMETHANE
Concen: 0.43 PPBV
RT: 6.163 min Scan# 262
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

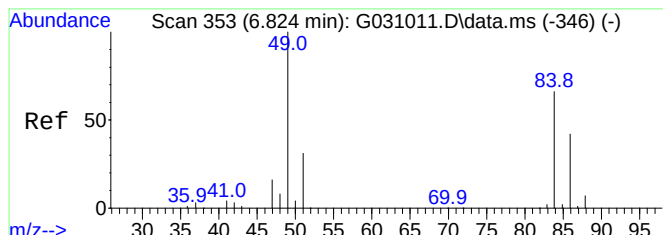
Tgt Ion: 101 Resp: 20320
Ion Ratio Lower Upper
101 100
103 65.6 44.8 84.8



#13
ETHANOL
Concen: 14.80 PPBV
RT: 5.568 min Scan# 191
Delta R.T. -0.006 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

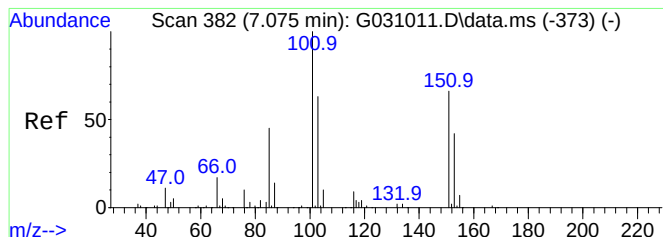
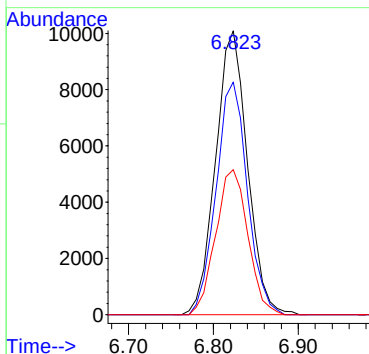
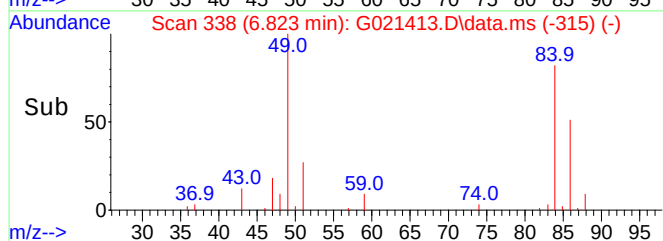
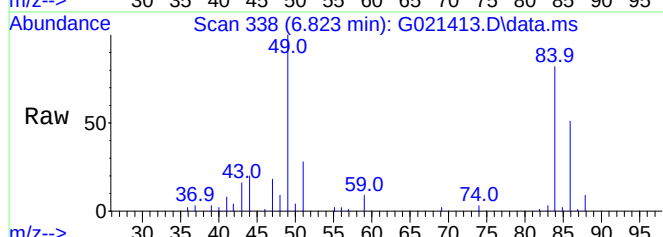
Tgt Ion: 45 Resp: 91577
Ion Ratio Lower Upper
45 100
46 38.5 14.0 54.0





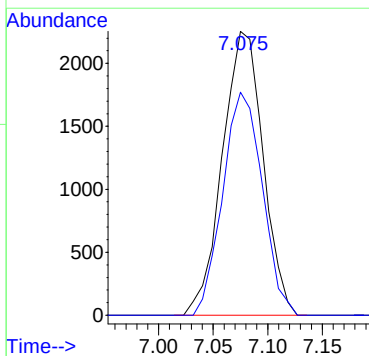
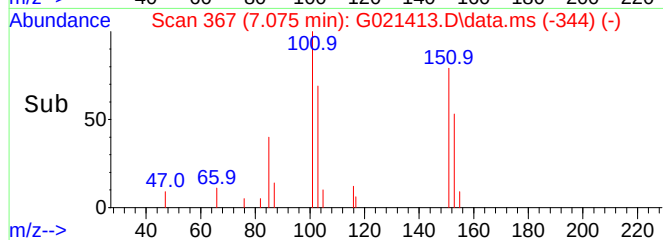
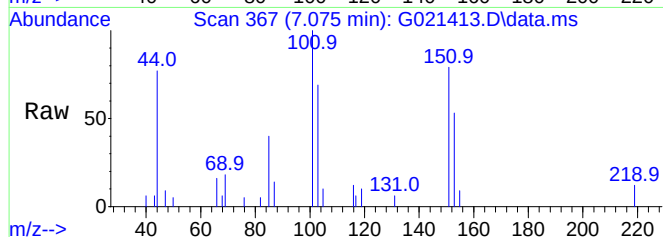
#15
METHYLENE CHLORIDE
Concen: 0.80 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

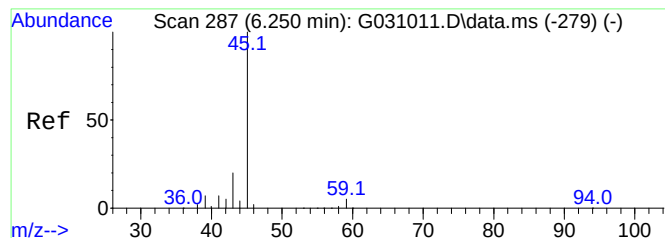
Tgt Ion: 49 Resp: 26367
Ion Ratio Lower Upper
49 100
84 80.4 45.2 85.2
86 51.6 21.4 61.4



#16
FREON 113
Concen: 0.11 PPBV
RT: 7.075 min Scan# 367
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

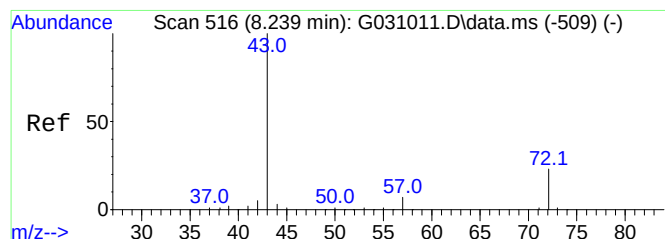
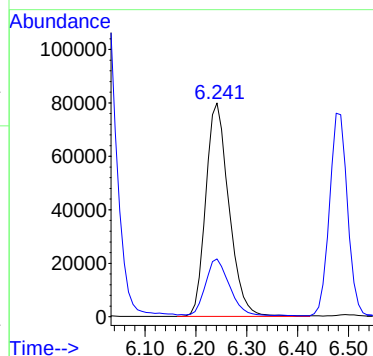
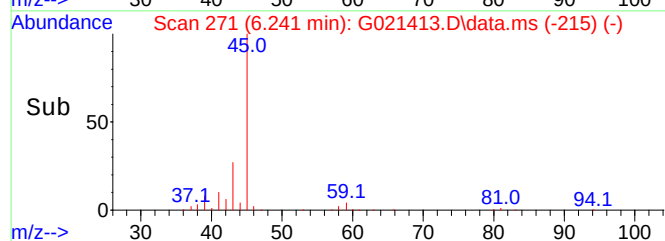
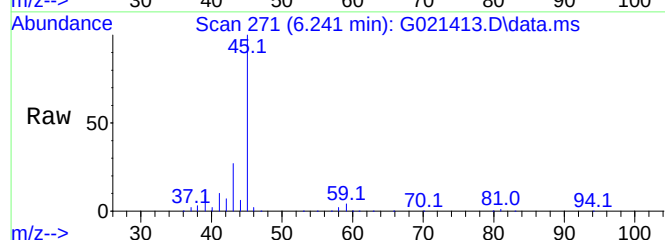
Tgt Ion: 101 Resp: 5867
Ion Ratio Lower Upper
101 100
151 76.4 46.3 86.3





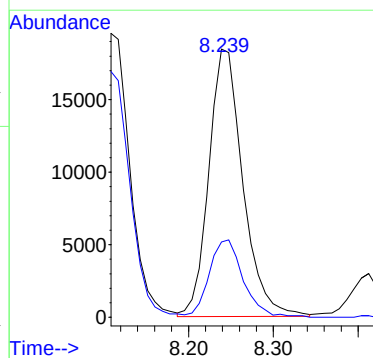
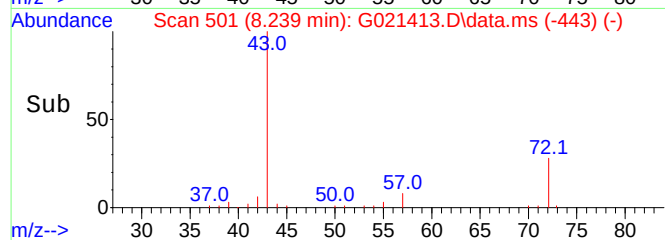
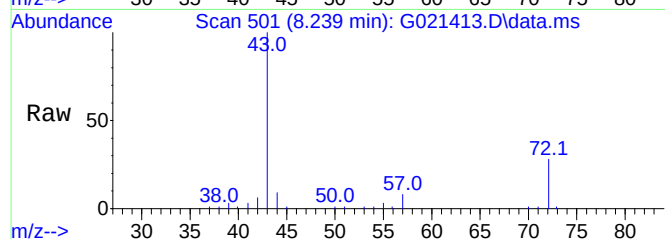
#21
IPA
Concen: 8.17 PPBV
RT: 6.241 min Scan# 271
Delta R.T. -0.009 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

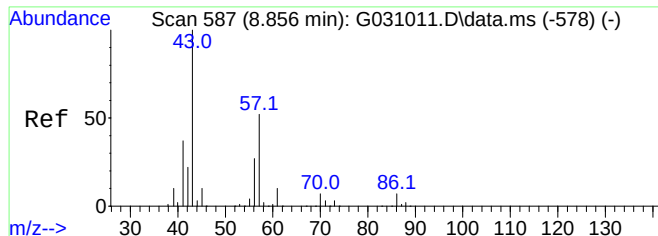
Tgt Ion: 45 Resp: 252672
Ion Ratio Lower Upper
45 100
43 27.5 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.86 PPBV
RT: 8.239 min Scan# 501
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

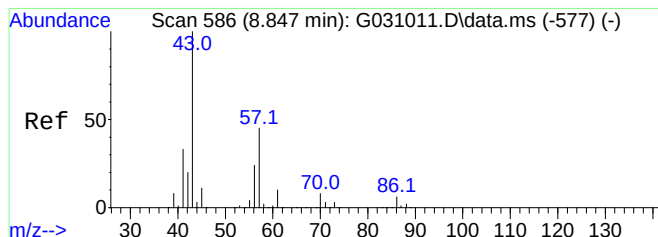
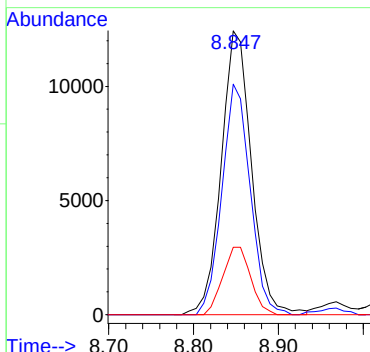
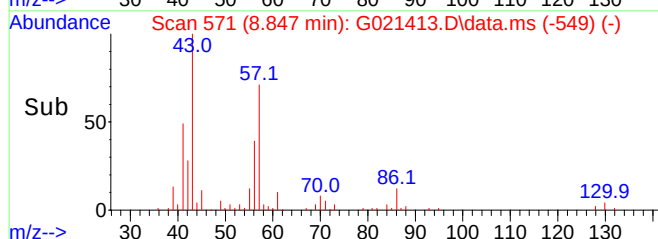
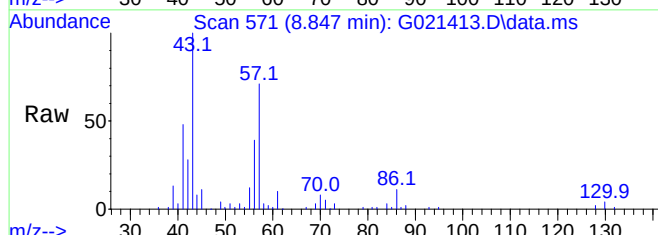
Tgt Ion: 43 Resp: 51408
Ion Ratio Lower Upper
43 100
72 28.9 2.6 42.6





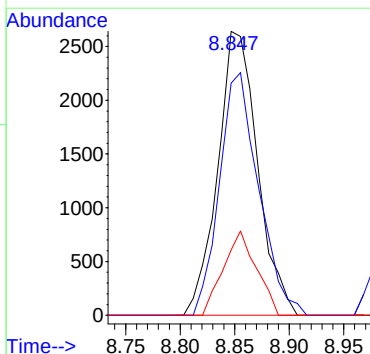
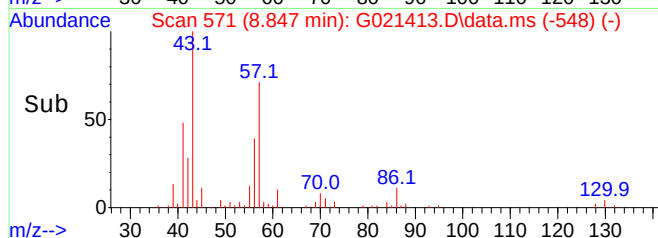
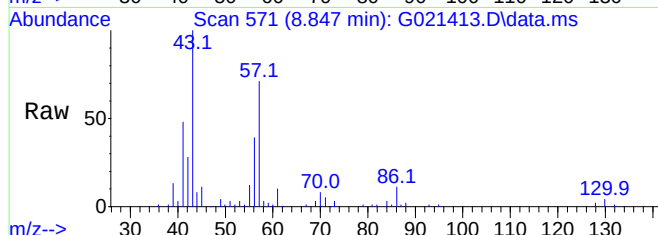
#25
 HEXANE
 Concen: 1.00 PPBV
 RT: 8.847 min Scan# 571
 Delta R.T. -0.009 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

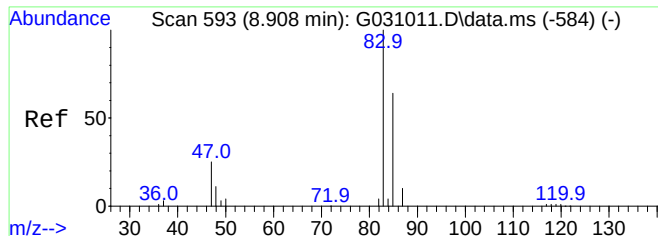
Tgt Ion: 41 Resp: 31001
 Ion Ratio Lower Upper
 41 100
 56 75.5 50.8 90.8
 86 21.9 9.6 29.6



#26
 ETHYL ACETATE
 Concen: 0.64 PPBV
 RT: 8.847 min Scan# 571
 Delta R.T. -0.000 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

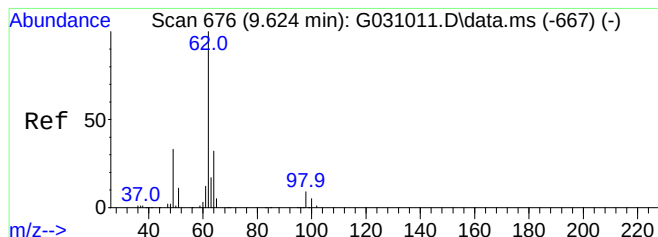
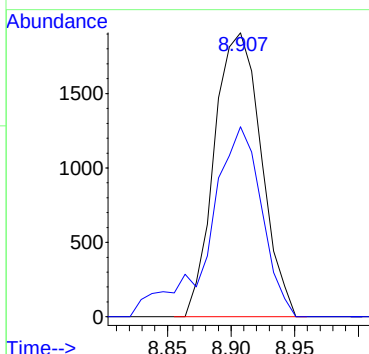
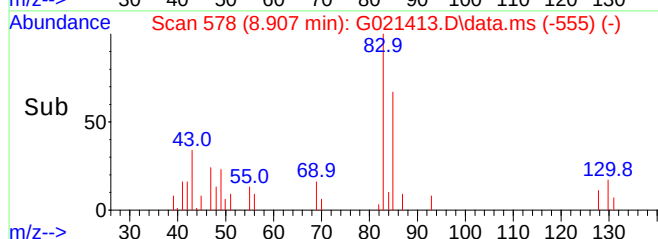
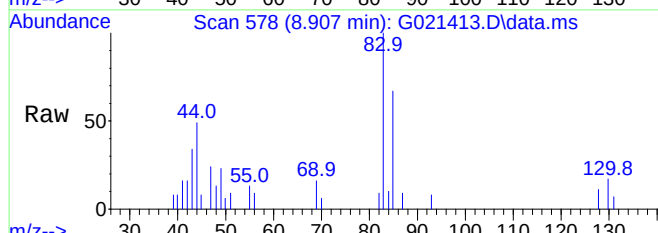
Tgt Ion: 61 Resp: 6732
 Ion Ratio Lower Upper
 61 100
 70 83.8 58.2 98.2
 88 24.6 3.0 43.0





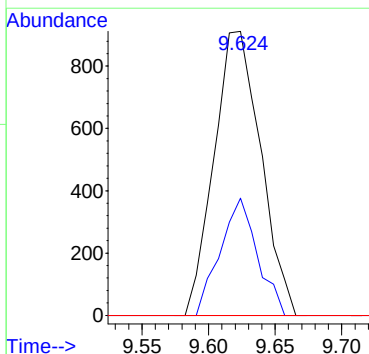
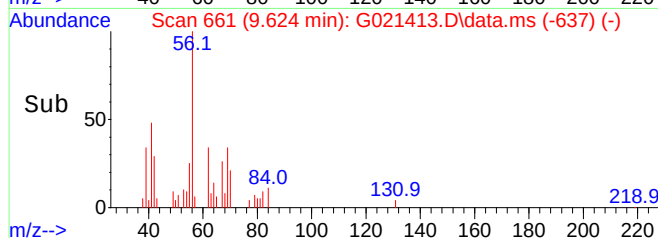
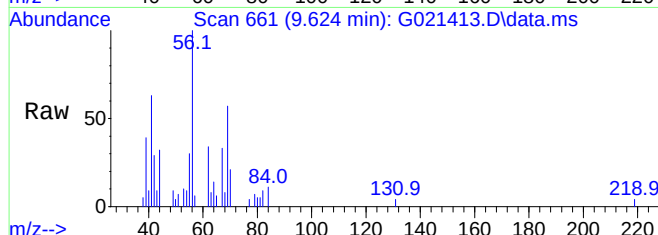
#27
CHLOROFORM
Concen: 0.08 PPBV
RT: 8.907 min Scan# 578
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

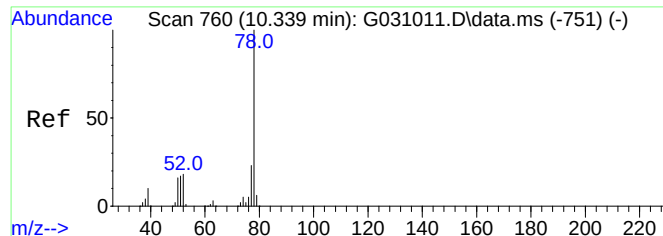
Tgt Ion: 83 Resp: 4881
Ion Ratio Lower Upper
83 100
85 75.0 44.9 84.9



#29
1,2-DICHLOROETHANE
Concen: 0.05 PPBV
RT: 9.624 min Scan# 661
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

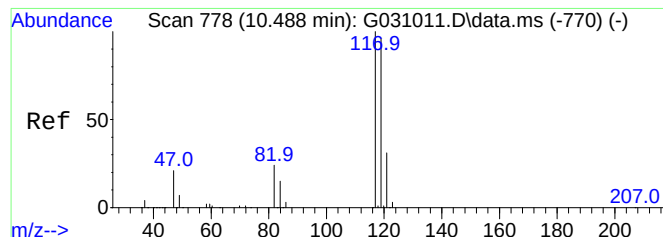
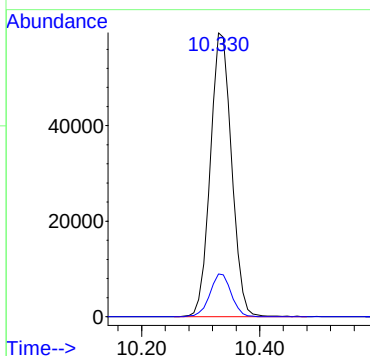
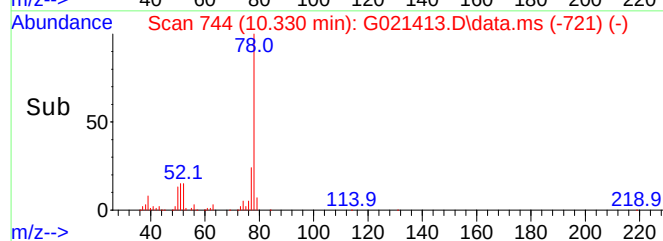
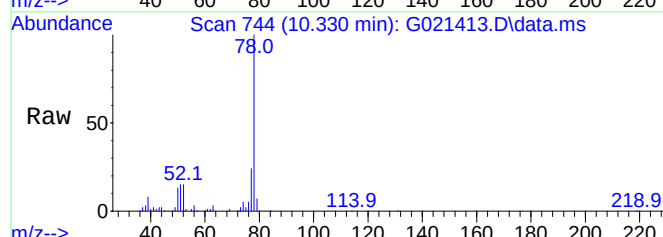
Tgt Ion: 62 Resp: 2225
Ion Ratio Lower Upper
62 100
64 32.8 12.5 52.5
98 0.0 0.0 18.4





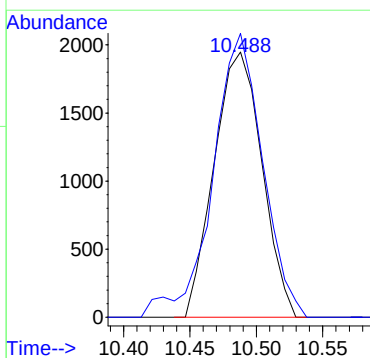
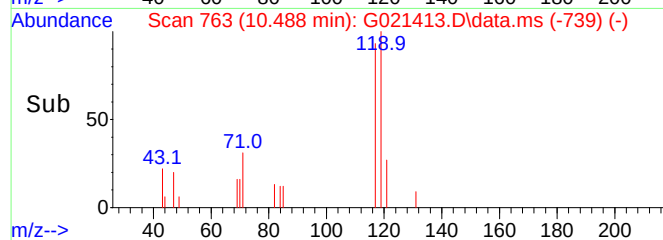
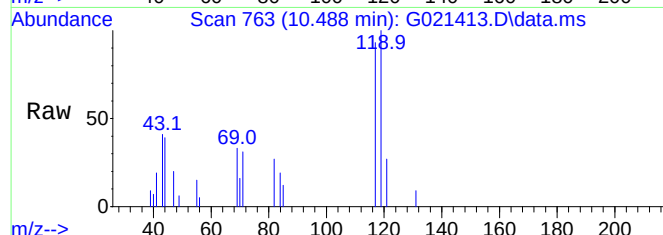
#32
 BENZENE
 Concen: 1.26 PPBV
 RT: 10.330 min Scan# 744
 Delta R.T. -0.009 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

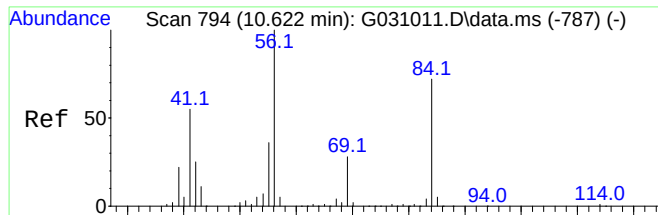
Tgt Ion: 78 Resp: 148836
 Ion Ratio Lower Upper
 78 100
 51 15.1 0.0 37.6



#33
 CARBON TETRACHLORIDE
 Concen: 0.09 PPBV
 RT: 10.488 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

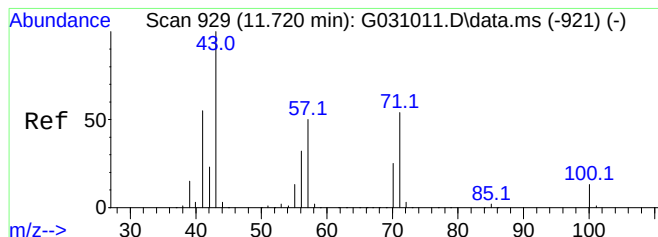
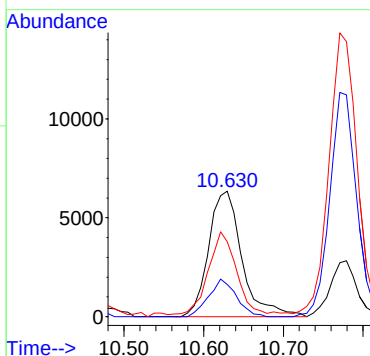
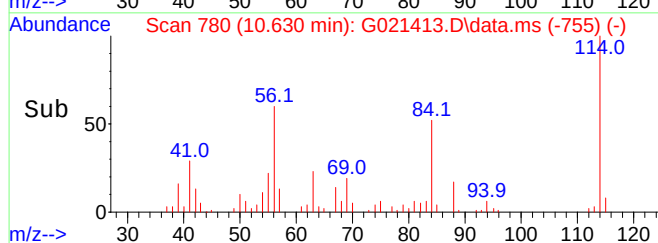
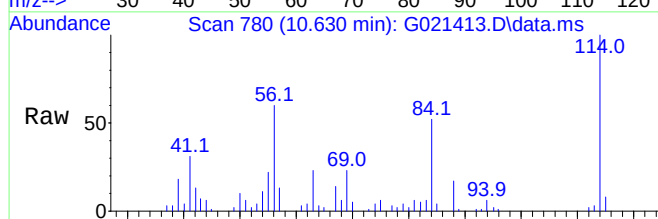
Tgt Ion: 117 Resp: 4886
 Ion Ratio Lower Upper
 117 100
 119 111.5 75.4 115.4





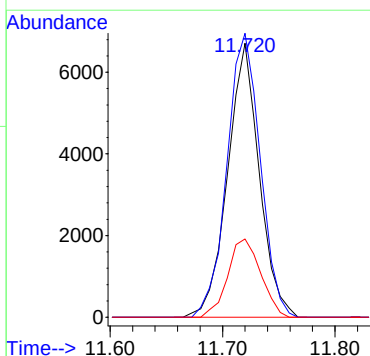
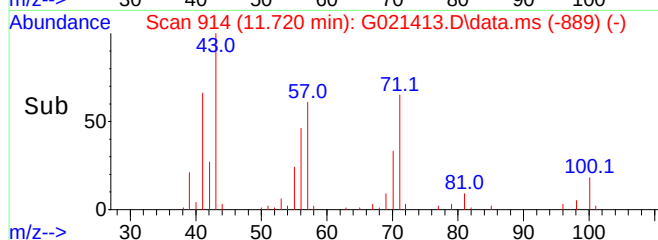
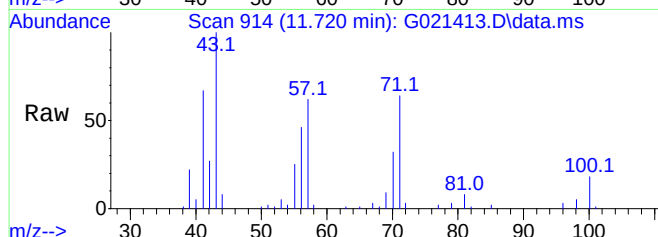
#34
CYCLOHEXANE
Concen: 0.37 PPBV
RT: 10.630 min Scan# 780
Delta R.T. 0.008 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

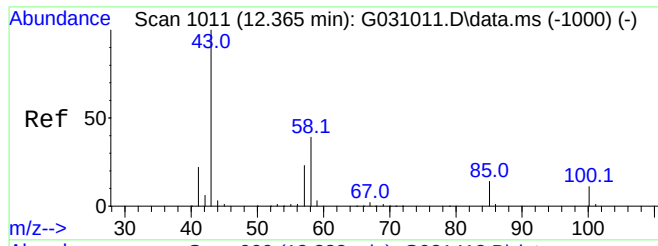
Tgt Ion: 84 Resp: 18458
Ion Ratio Lower Upper
84 100
42 24.9 13.2 53.2
41 56.0 55.4 95.4



#40
HEPTANE
Concen: 0.37 PPBV
RT: 11.720 min Scan# 914
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

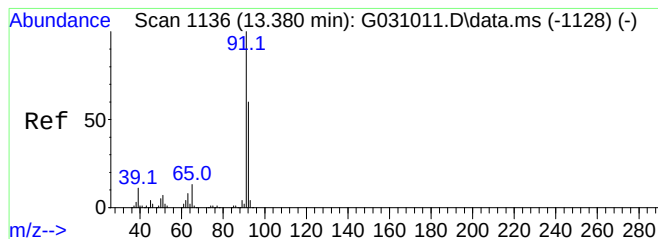
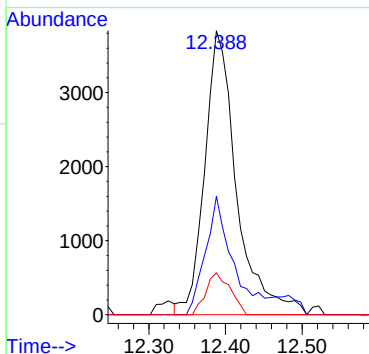
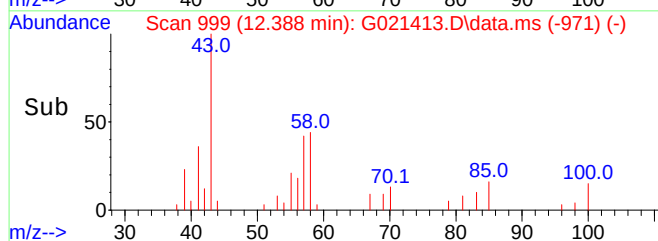
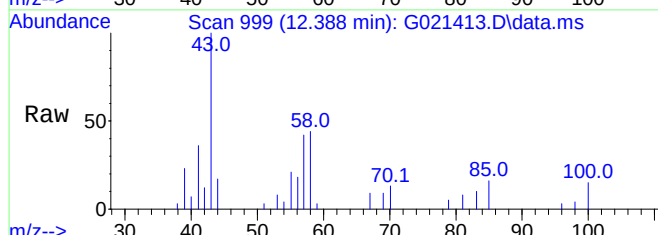
Tgt Ion: 57 Resp: 13137
Ion Ratio Lower Upper
57 100
71 108.8 83.8 123.8
100 29.8 5.4 45.4





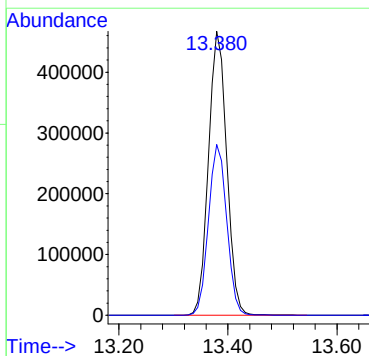
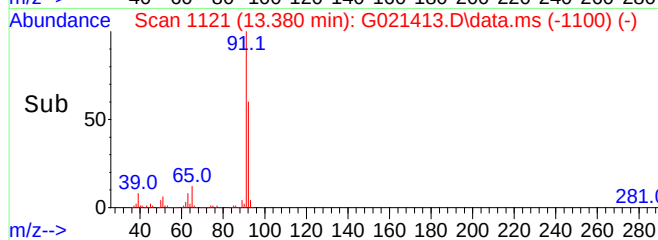
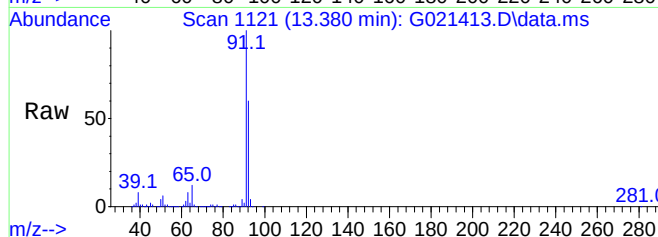
#41
MIBK
Concen: 0.13 PPBV
RT: 12.388 min Scan# 999
Delta R.T. 0.023 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

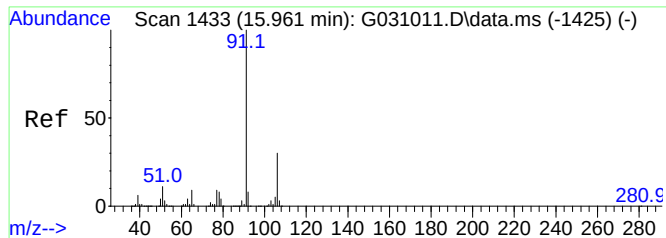
Tgt Ion: 43 Resp: 11110
Ion Ratio Lower Upper
43 100
57 36.7 2.8 42.8
100 11.3 1.0 21.0



#46
TOLUENE
Concen: 8.25 PPBV
RT: 13.380 min Scan# 1121
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

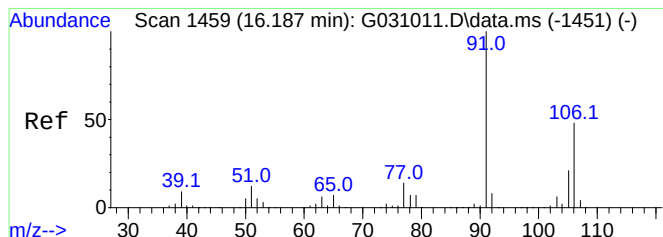
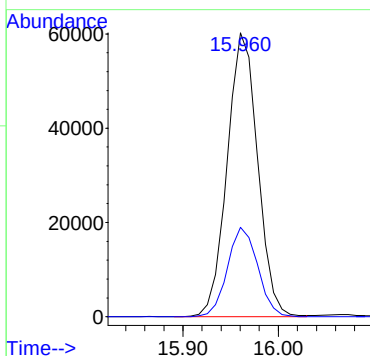
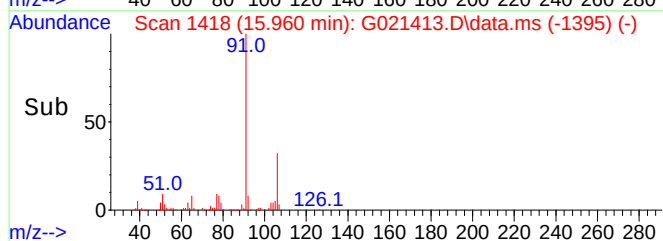
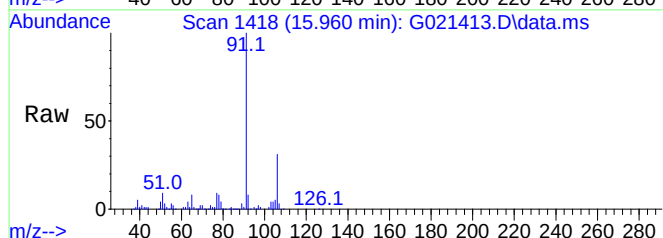
Tgt Ion: 91 Resp: 1085625
Ion Ratio Lower Upper
91 100
92 60.3 39.7 79.7





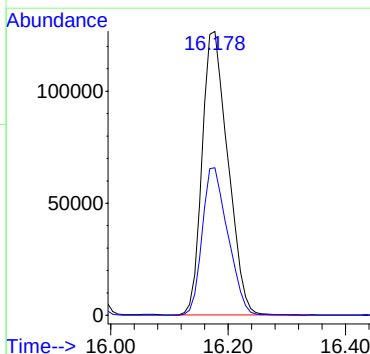
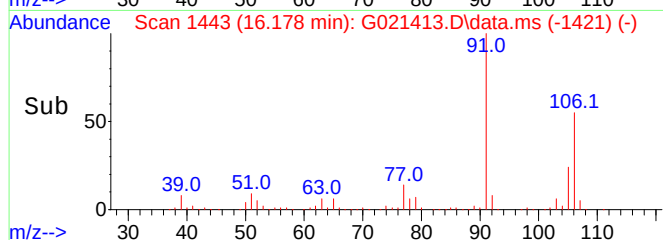
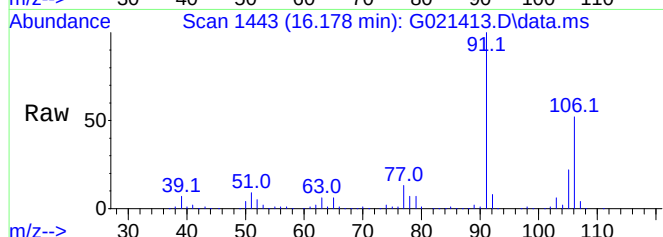
#52
ETHYLBENZENE
Concen: 0.80 PPBV
RT: 15.960 min Scan# 1418
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

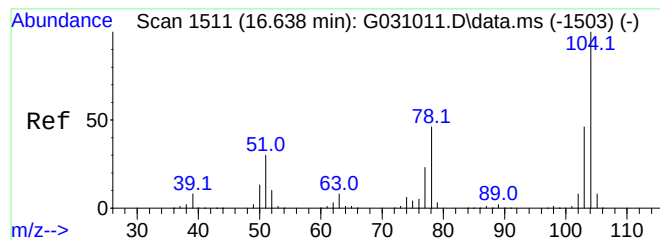
Tgt Ion: 91 Resp: 133784
Ion Ratio Lower Upper
91 100
106 31.2 10.0 50.0



#53
M/P-XYLENE
Concen: 2.93 PPBV
RT: 16.178 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

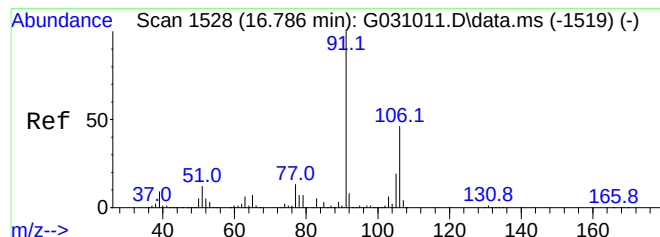
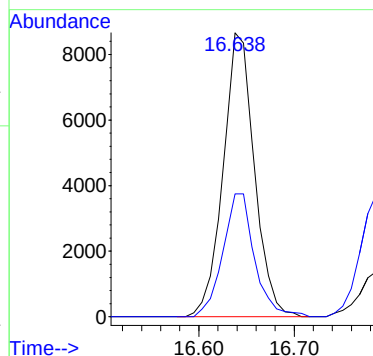
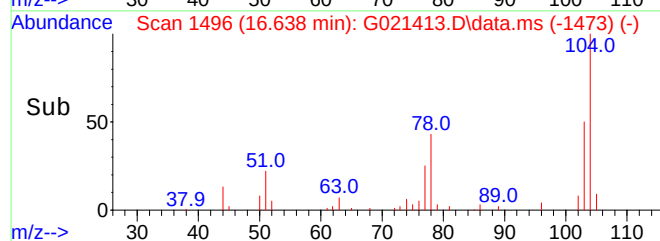
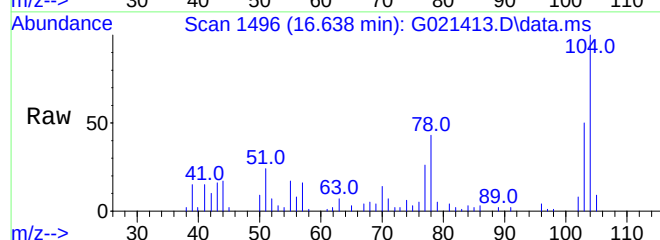
Tgt Ion: 91 Resp: 384918
Ion Ratio Lower Upper
91 100
106 52.0 28.3 68.3





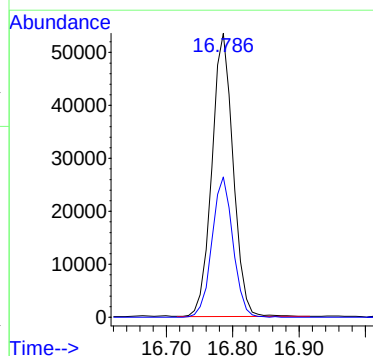
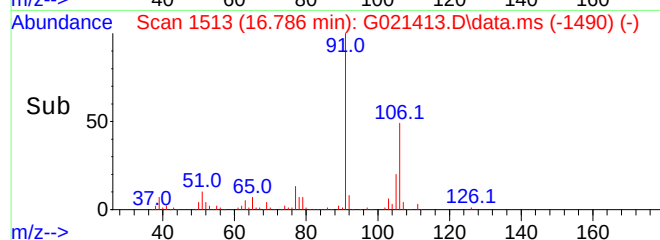
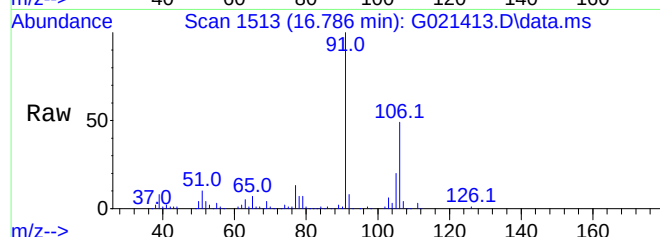
#55
 STYRENE
 Concen: 0.20 PPBV
 RT: 16.638 min Scan# 1496
 Delta R.T. -0.000 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

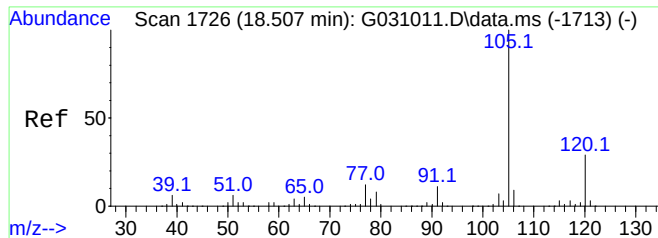
Tgt Ion: 104 Resp: 19633
 Ion Ratio Lower Upper
 104 100
 78 44.0 25.1 65.1



#56
 O-XYLENE
 Concen: 0.91 PPBV
 RT: 16.786 min Scan# 1513
 Delta R.T. -0.000 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

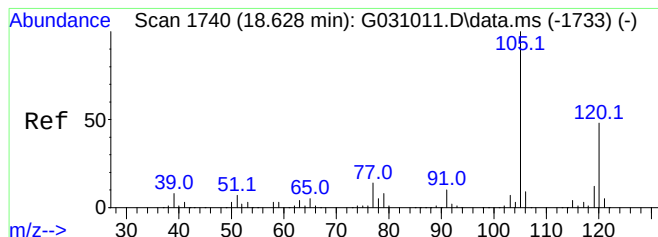
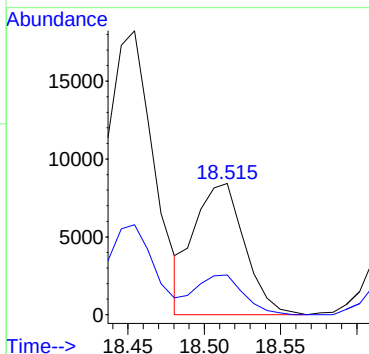
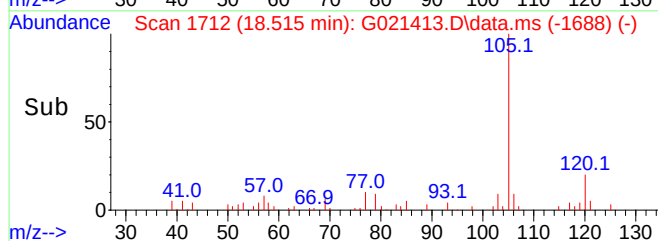
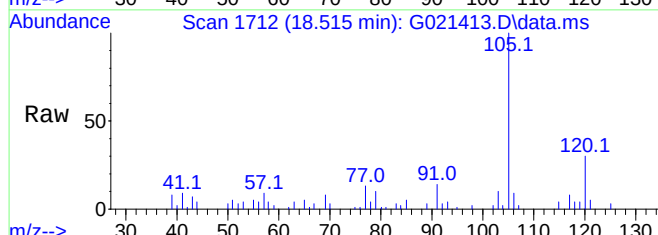
Tgt Ion: 91 Resp: 119428
 Ion Ratio Lower Upper
 91 100
 106 48.9 25.5 65.5





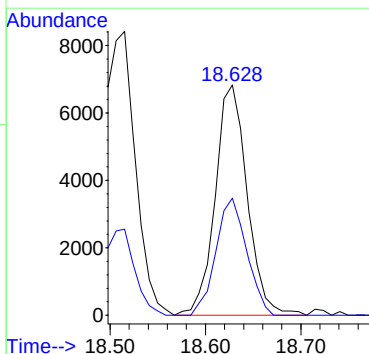
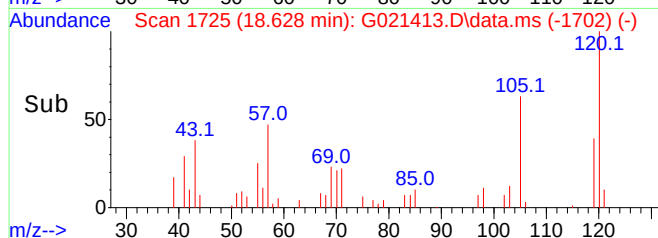
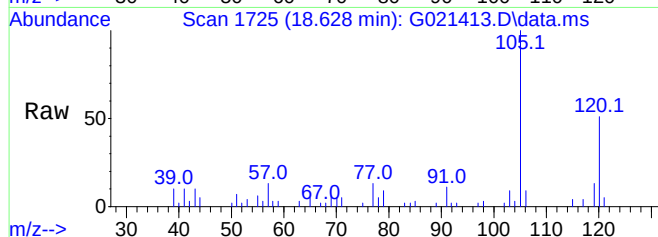
#59
4-ETHYLTOLUENE
Concen: 0.11 PPBV
RT: 18.515 min Scan# 1712
Delta R.T. 0.008 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

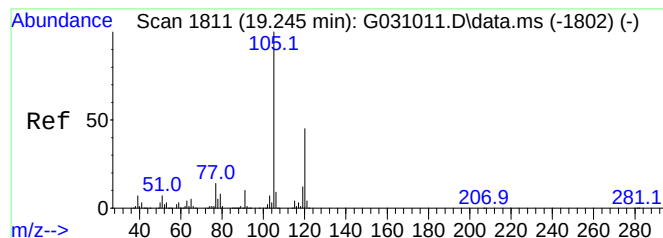
Tgt Ion:105 Resp: 19456
Ion Ratio Lower Upper
105 100
120 29.5 8.6 48.6



#60
1,3,5-TRIMETHYLBENZENE
Concen: 0.11 PPBV
RT: 18.628 min Scan# 1725
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

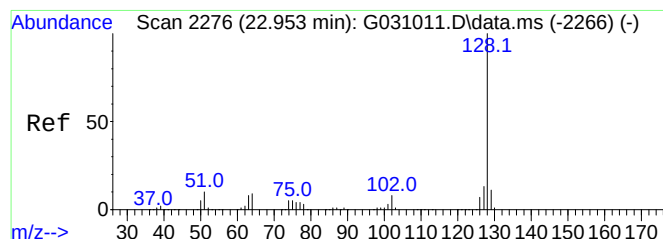
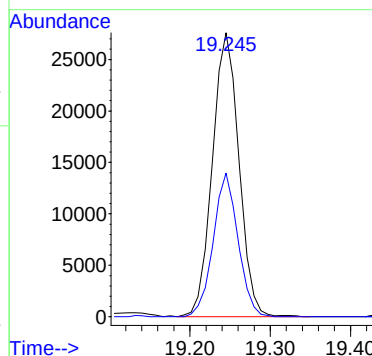
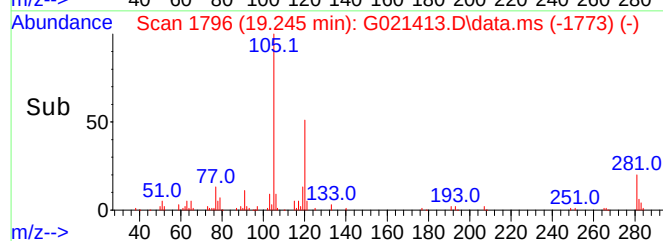
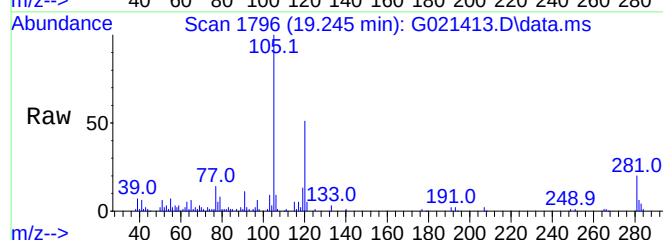
Tgt Ion:105 Resp: 15923
Ion Ratio Lower Upper
105 100
120 48.9 28.3 68.3





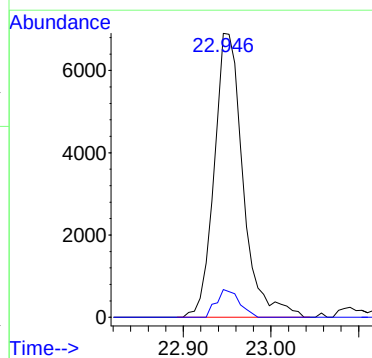
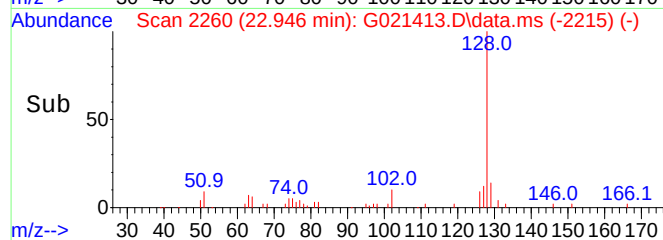
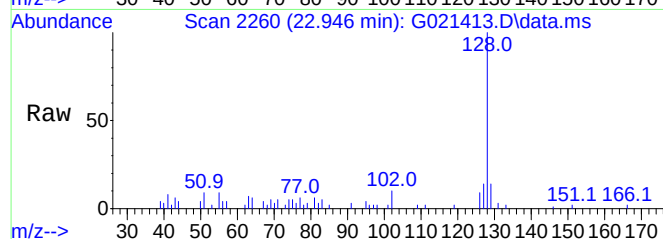
#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.45 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.000 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

Tgt Ion:105 Resp: 63574
Ion Ratio Lower Upper
105 100
120 47.2 24.8 64.8



#67
NAPHTHALENE
Concen: 0.08 PPBV
RT: 22.946 min Scan# 2260
Delta R.T. -0.006 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

Tgt Ion:128 Resp: 15797
Ion Ratio Lower Upper
128 100
102 7.8 0.0 28.6



Data File : C:\msdchem\1\data\G021412\G021413.D
 Acq On : 14 Feb 2012 8:02 pm
 Sample : 12B0323-04 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:12:58 2012

Vial: 5
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	953098	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	174612	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	643361	9.74	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	121.75%
Target Compounds						
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	56439	0.414	PPBV	Qvalue 85
6) METHYLCYCLOHEXANE	12.435	83	16768	0.299	PPBV	88
12) PROPYLBENZENE	18.298	120	2891	0.075	PPBV #	91
15) P-CYMENE	19.931	119	42016	0.297	PPBV	94
16) INDANE	20.227	117	10551	0.097	PPBV	96

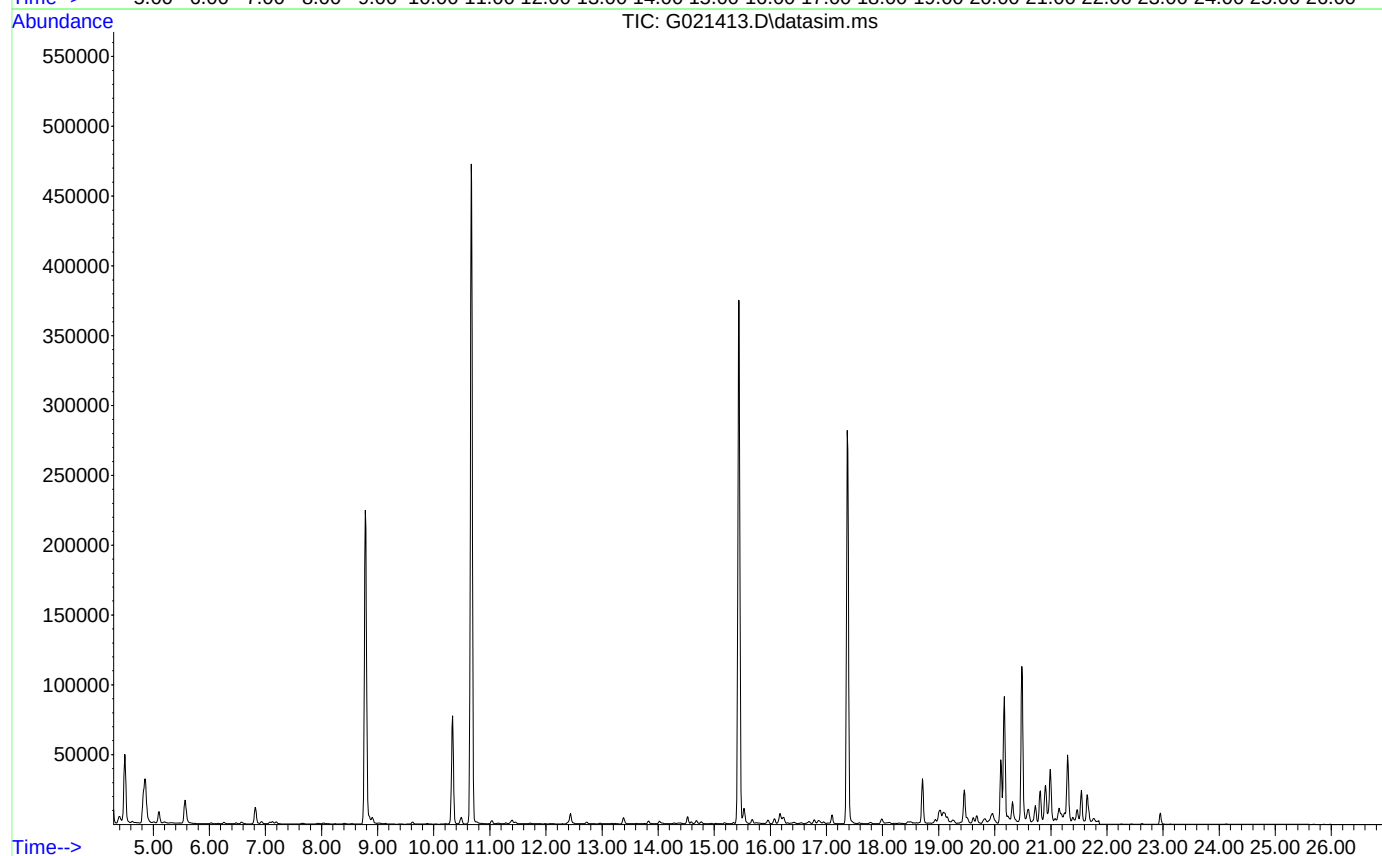
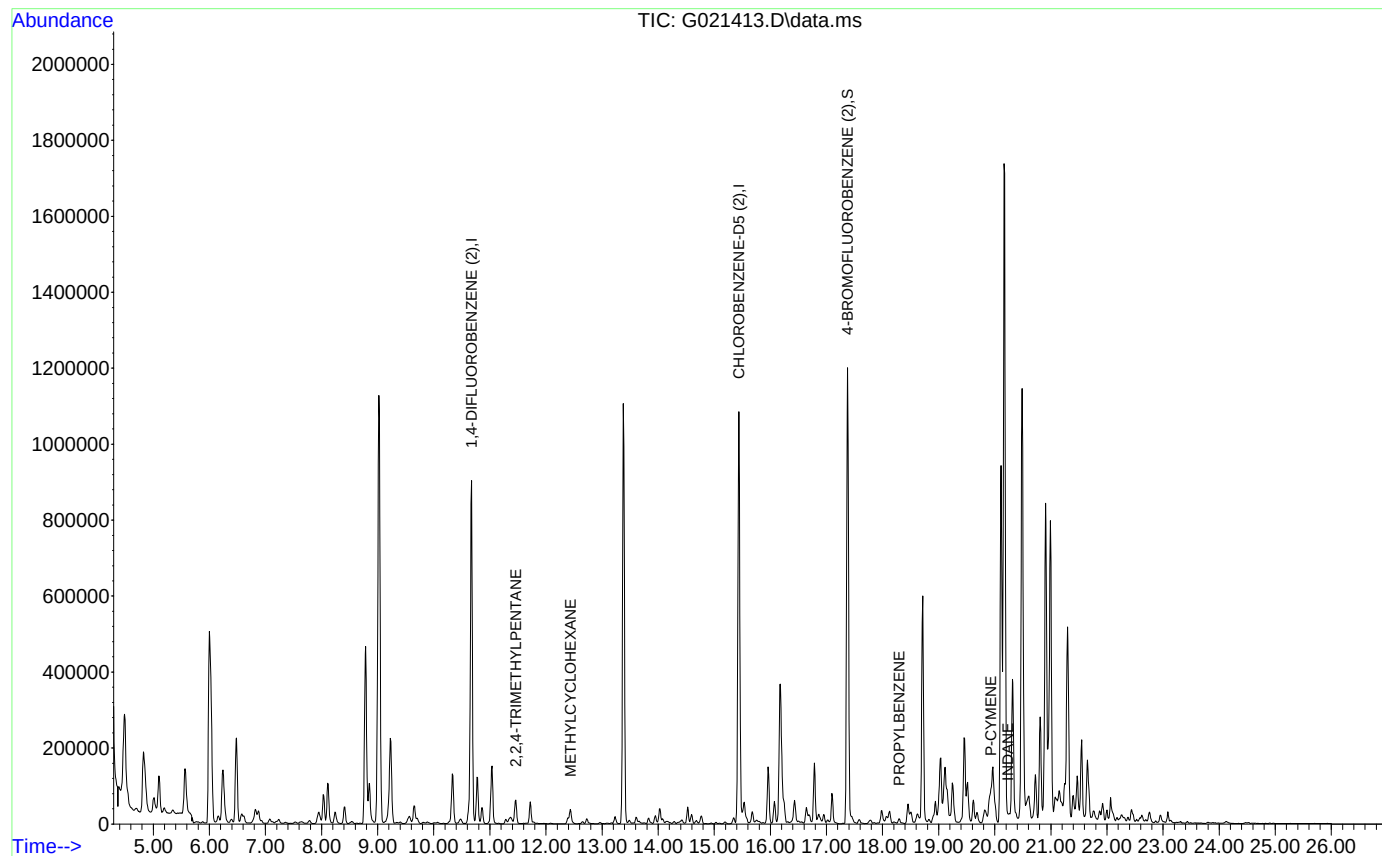
(#) = qualifier out of range (m) = manual integration (+) = signals summed

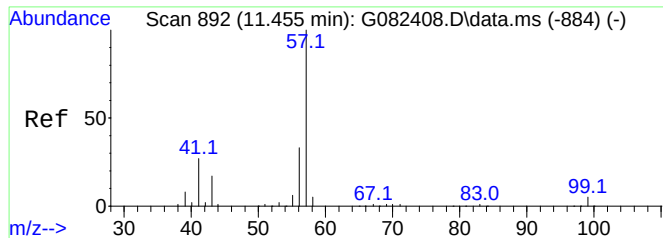
Data File : C:\msdchem\1\data\G021412\G021413.D
Acq On : 14 Feb 2012 8:02 pm
Sample : 12B0323-04 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:12:58 2012

Vial: 5
Operator: WSD
Inst : SYSG
Multiplr: 1.00

182

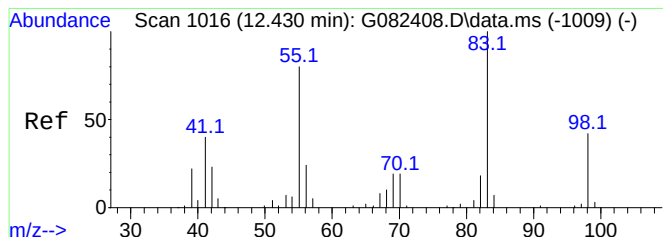
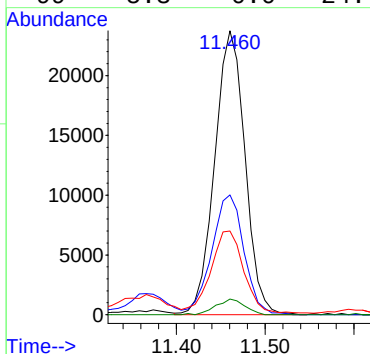
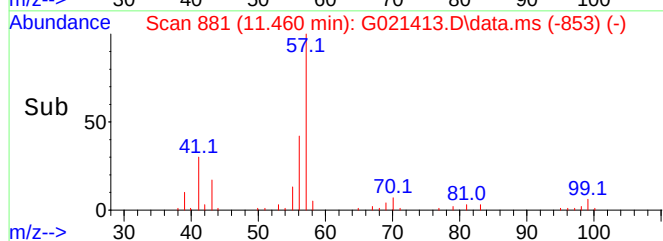
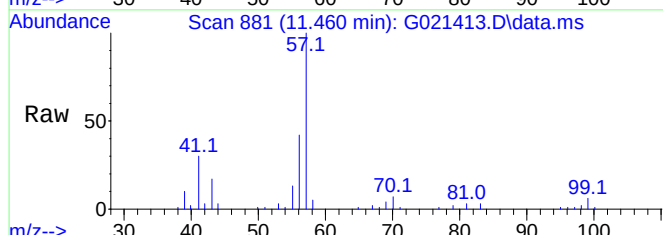
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





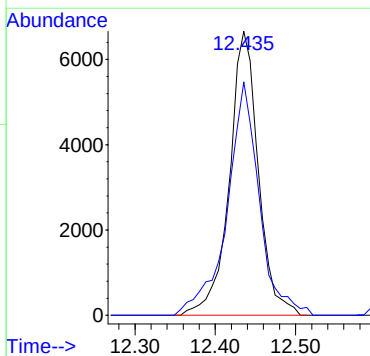
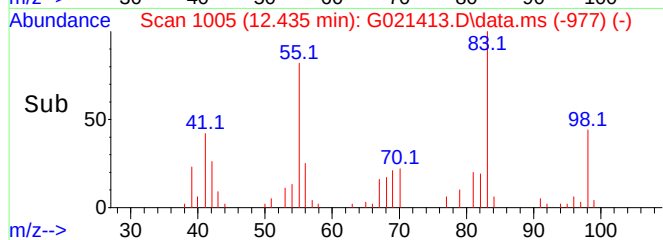
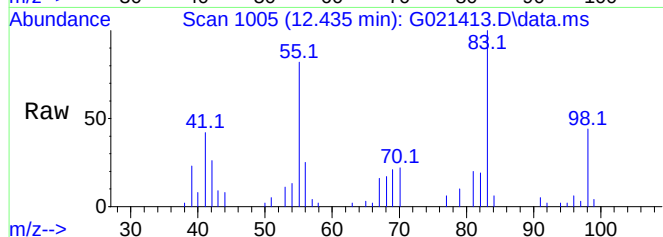
#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.41 PPBV
RT: 11.460 min Scan# 881
Delta R.T. 0.021 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

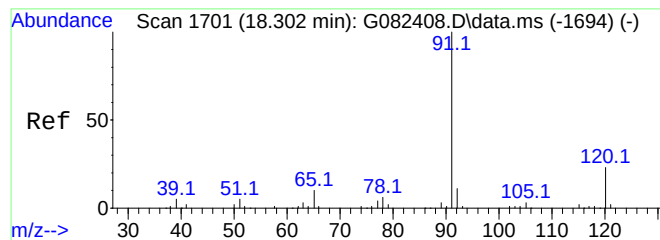
Tgt Ion	Ratio	Lower	Upper
57	100		
56	44.8	13.7	53.7
41	31.1	5.8	45.8
99	5.3	0.0	24.7



#6
METHYLCYCLOHEXANE
Concen: 0.30 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.021 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

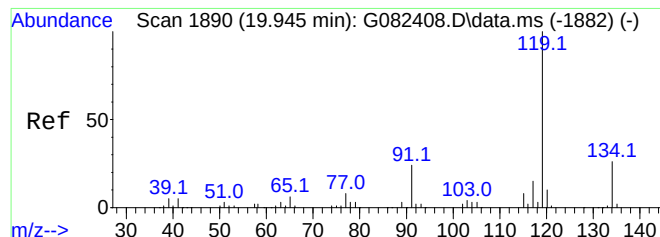
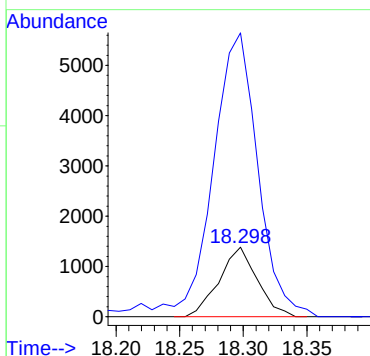
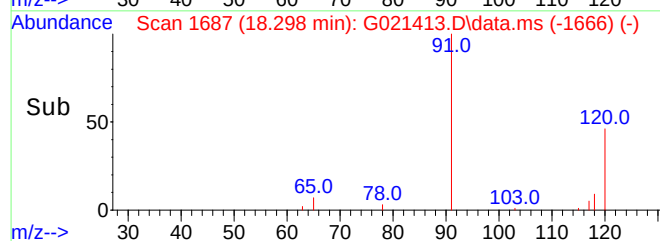
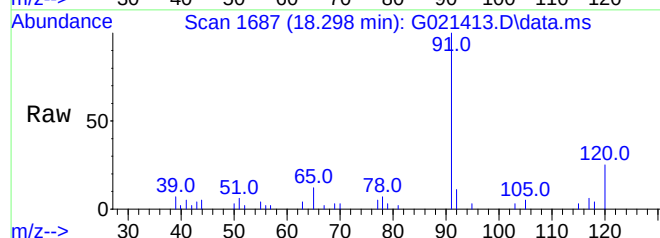
Tgt Ion	Ratio	Lower	Upper
83	100		
55	91.2	60.5	100.5





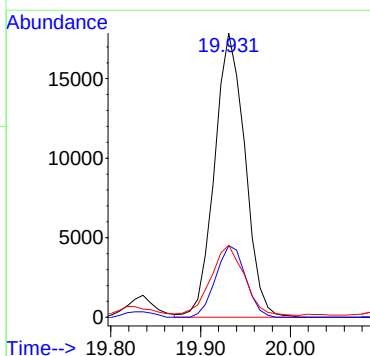
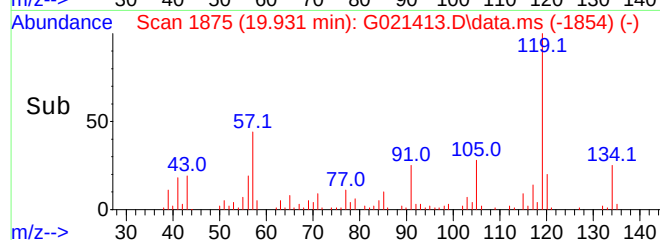
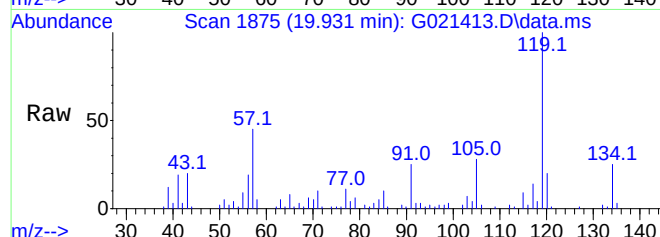
#12
 PROPYLBENZENE
 Concen: 0.08 PPBV
 RT: 18.298 min Scan# 1687
 Delta R.T. -0.022 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

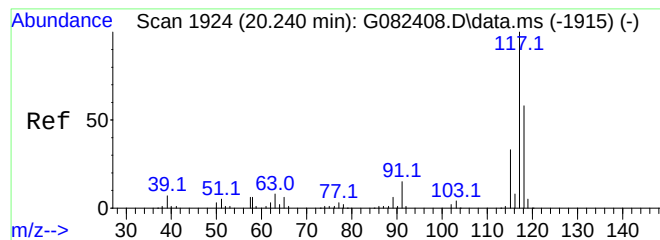
Tgt Ion:120 Resp: 2891
 Ion Ratio Lower Upper
 120 100
 91 477.1 434.5 474.5#



#15
 P-CYMENE
 Concen: 0.30 PPBV
 RT: 19.931 min Scan# 1875
 Delta R.T. -0.022 min
 Lab File: G021413.D
 Acq: 14 Feb 2012 8:02 pm

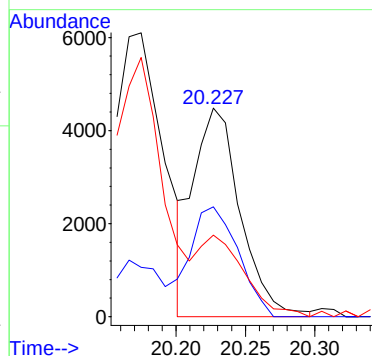
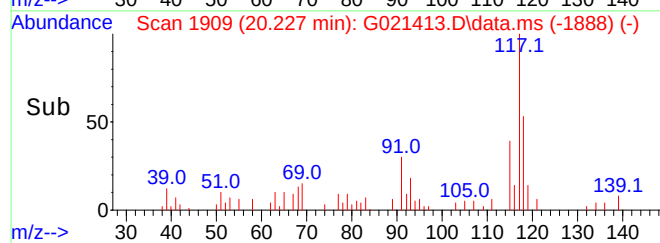
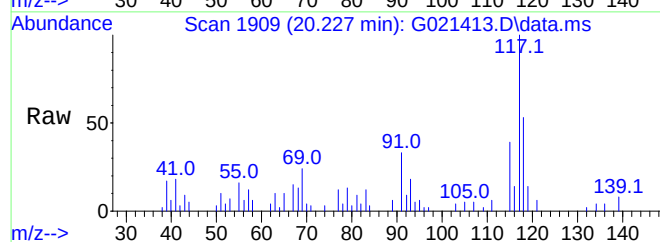
Tgt Ion:119 Resp: 42016
 Ion Ratio Lower Upper
 119 100
 134 24.7 5.8 45.8
 91 28.0 2.8 42.8





#16
INDANE
Concen: 0.10 PPBV
RT: 20.227 min Scan# 1909
Delta R.T. -0.022 min
Lab File: G021413.D
Acq: 14 Feb 2012 8:02 pm

Tgt Ion:117 Resp: 10551
Ion Ratio Lower Upper
117 100
118 55.6 36.4 76.4
115 37.7 11.9 51.9



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS03

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-05 File ID: G021216.D
 Sampled: 02/08/12 15:09 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 11:31
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform	0.27	0.036	0.10	
74-87-3	Chloromethane	0.13	0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.58	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS03

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-05 File ID: G021216.D
 Sampled: 02/08/12 15:09 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 11:31
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol	12	0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene		0.030	0.10	
108-88-3	Toluene		0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane	0.46	0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	0.96	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS03

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-05	File ID:	G021216.D		
Sampled:	02/08/12 15:09	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 11:31		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021216.D
 Acq On : 13 Feb 2012 11:31 am
 Sample : 12B0323-05 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 13:38:18 2012

Vial: 8
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.803	49	310379	8.00	PPBV	# 0.02
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	954107	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	831528	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	460640	8.13	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	101.63%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.562	85	17750	0.292	PPBV	Qvalue 98
4) CHLOROMETHANE	4.716	50	1171	0.067	PPBV	80
10) ACROLEIN	5.929	56	694	0.095	PPBV	89
11) ACETONE	6.068	43	172913	5.728	PPBV	99
12) TRICHLOROFLUOROMETHANE	6.189	101	23341	0.481	PPBV	99
13) ETHANOL	5.682	45	38514	6.063	PPBV	95
15) METHYLENE CHLORIDE	6.849	49	9757	0.289	PPBV	# 76
17) CARBON DISULFIDE	7.136	76	8765	0.101	PPBV	85
21) IPA	6.406	45	63748	2.007	PPBV	80
22) 2-BUTANONE(MEK)	8.343	43	4362	0.071	PPBV	89
27) CHLOROFORM	8.925	83	8395	0.135	PPBV	100
31) 1,1,1-TRICHLOROETHANE	9.898	97	14581	0.228	PPBV	97

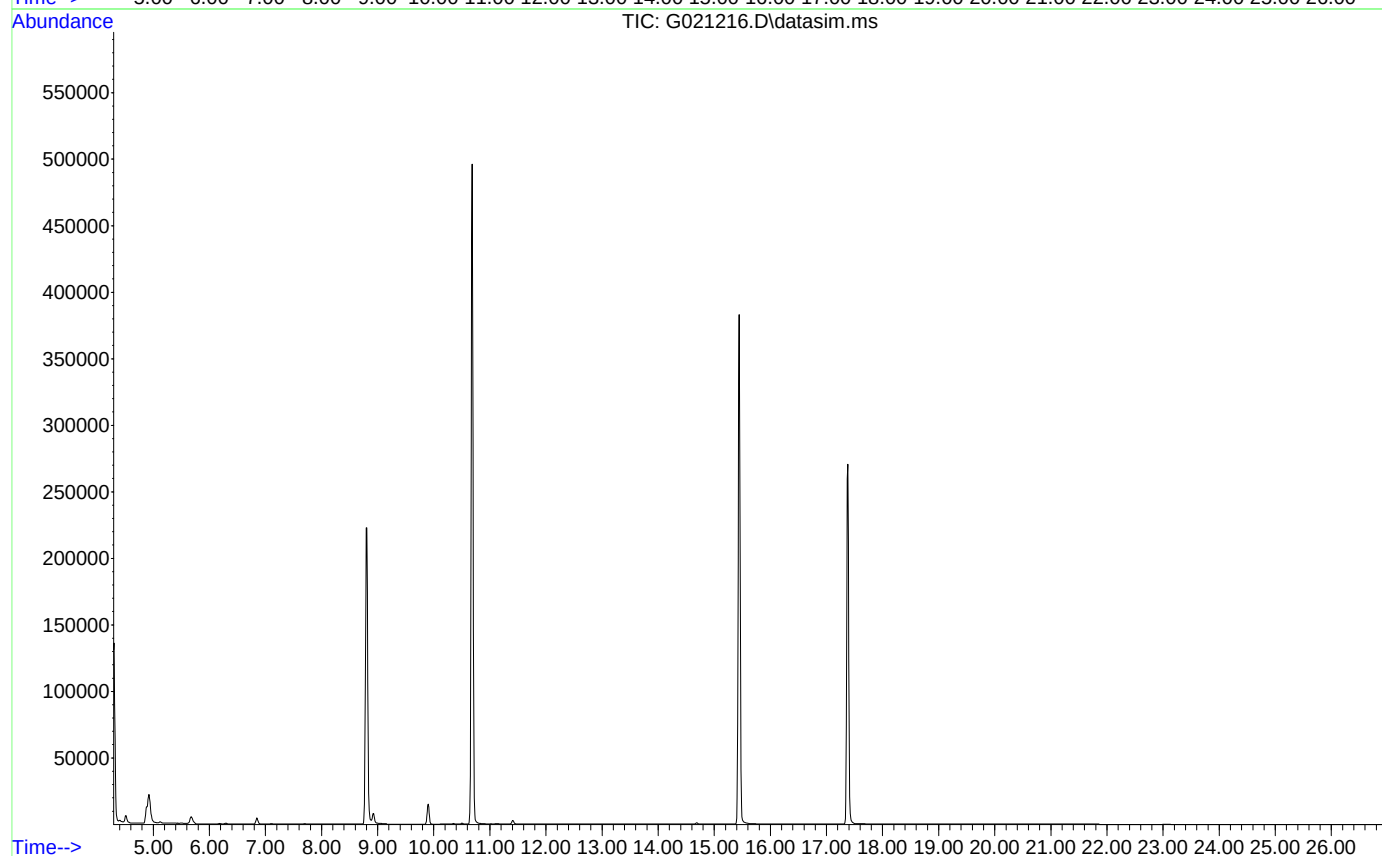
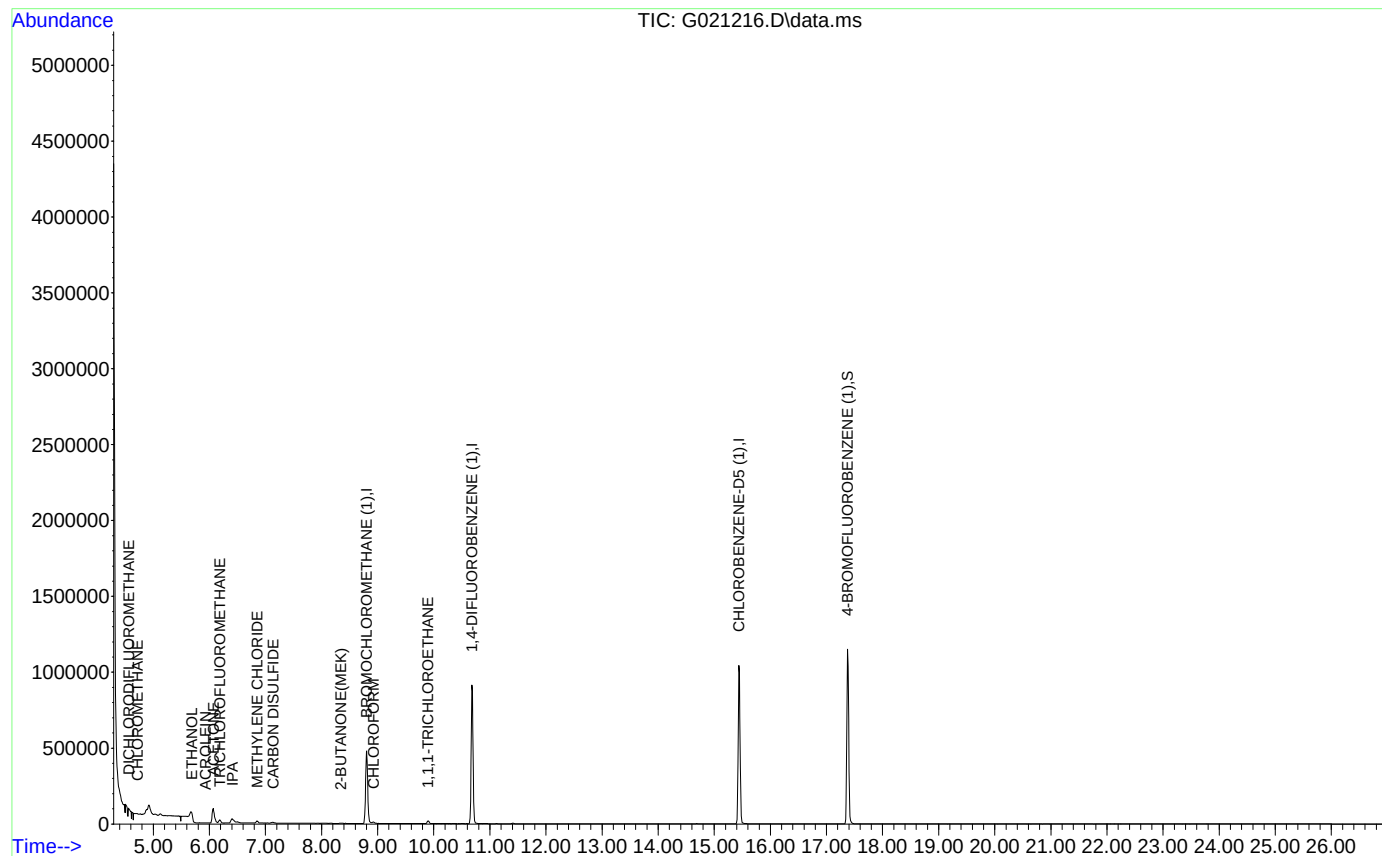
(#) = qualifier out of range (m) = manual integration (+) = signals summed

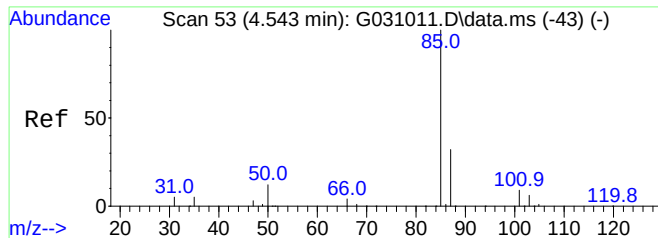
Data File : C:\msdchem\1\data\G021212\G021216.D
Acq On : 13 Feb 2012 11:31 am
Sample : 12B0323-05 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 13:38:18 2012

Vial: 8
Operator: TPH
Inst : SYSG
Multiplr: 1.00

190

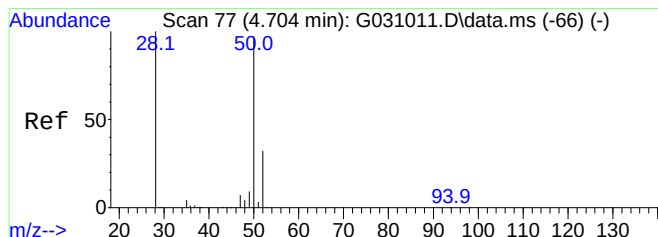
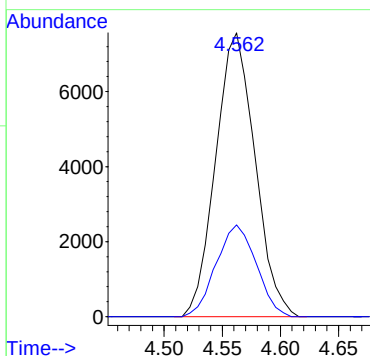
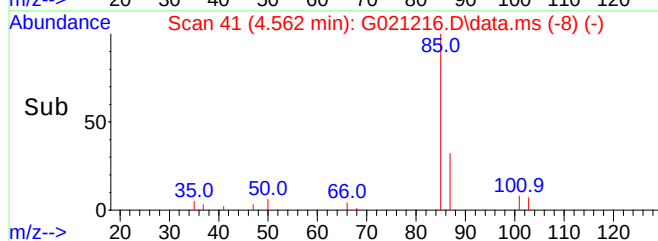
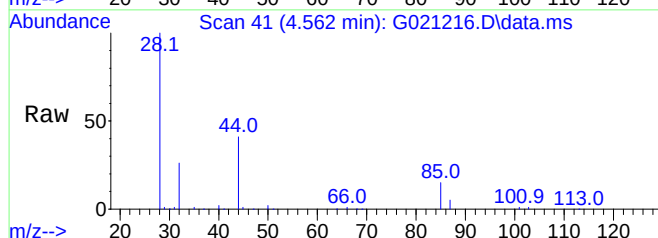
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





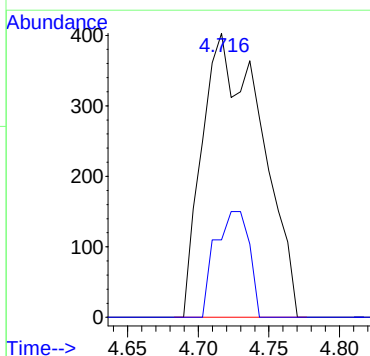
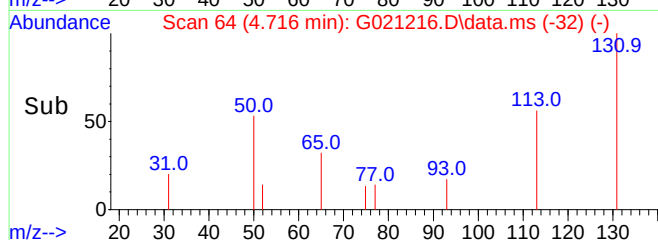
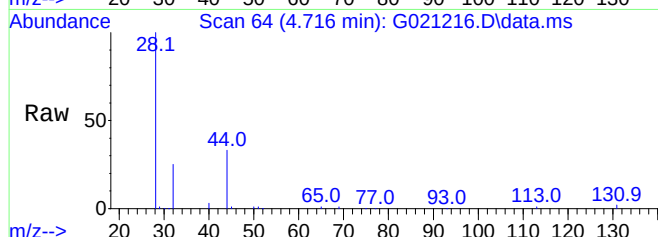
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.29 PPBV
 RT: 4.562 min Scan# 41
 Delta R.T. 0.020 min
 Lab File: G021216.D
 Acq: 13 Feb 2012 11:31 am

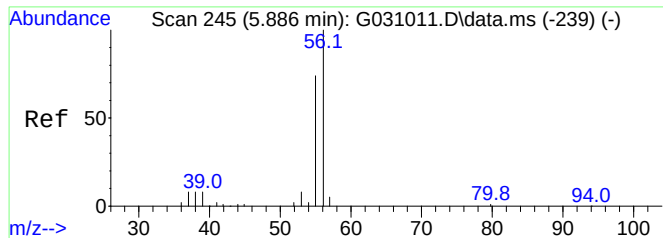
Tgt Ion: 85 Resp: 17750
 Ion Ratio Lower Upper
 85 100
 87 33.0 12.1 52.1



#4
 CHLOROMETHANE
 Concen: 0.07 PPBV
 RT: 4.716 min Scan# 64
 Delta R.T. 0.013 min
 Lab File: G021216.D
 Acq: 13 Feb 2012 11:31 am

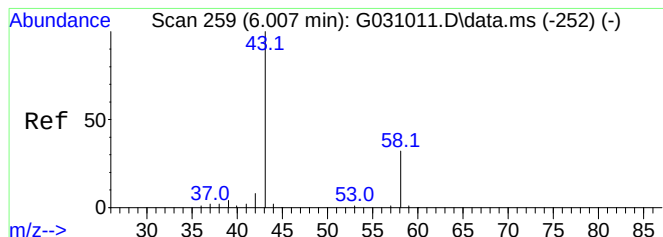
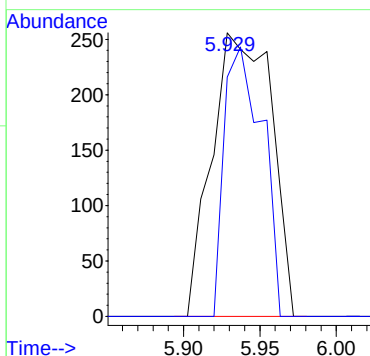
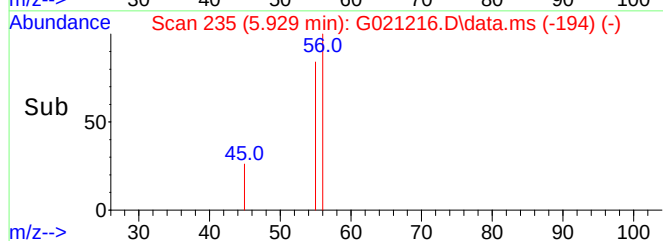
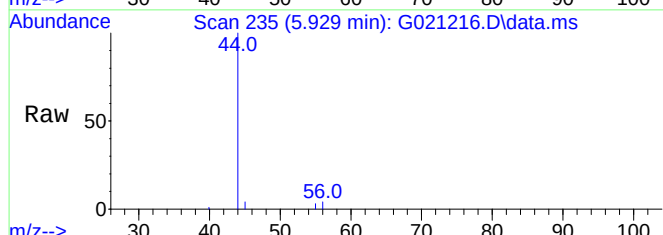
Tgt Ion: 50 Resp: 1171
 Ion Ratio Lower Upper
 50 100
 52 21.4 12.8 52.8





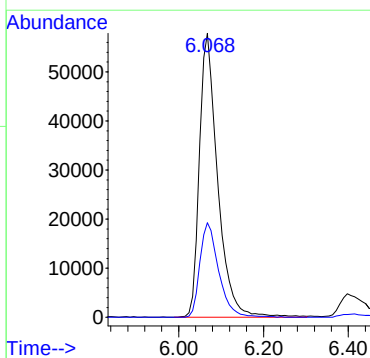
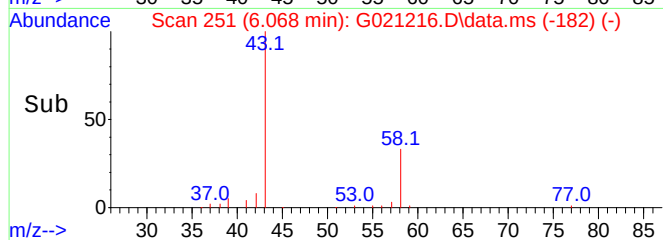
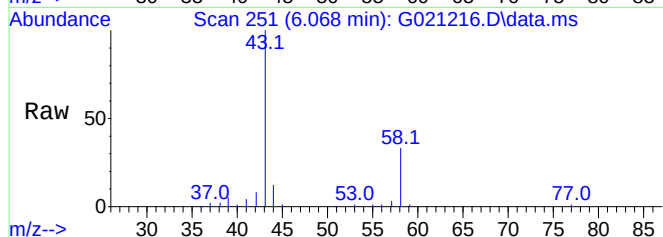
#10
ACROLEIN
Concen: 0.10 PPBV
RT: 5.929 min Scan# 235
Delta R.T. 0.044 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

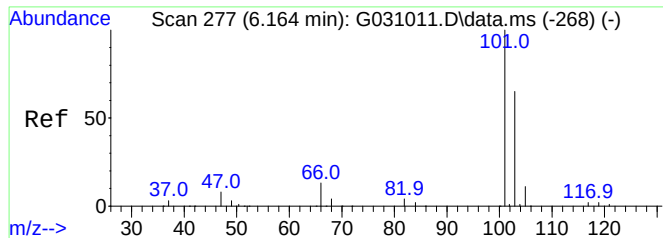
Tgt Ion: 56 Resp: 694
Ion Ratio Lower Upper
56 100
55 61.0 56.1 84.1



#11
ACETONE
Concen: 5.73 PPBV
RT: 6.068 min Scan# 251
Delta R.T. 0.061 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

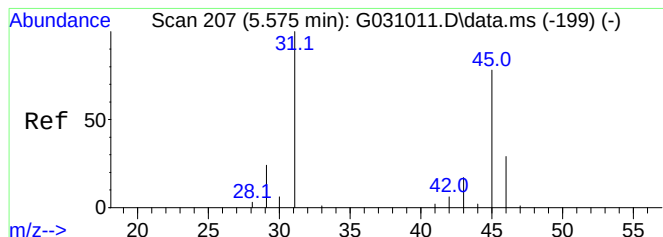
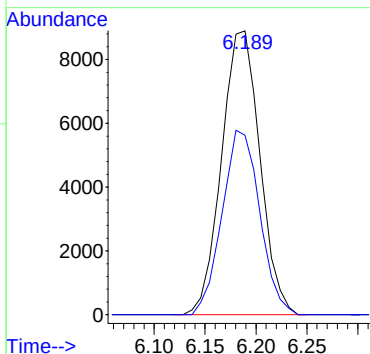
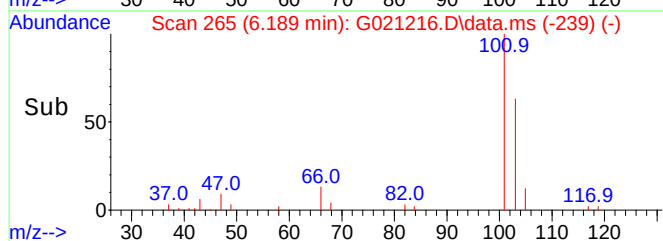
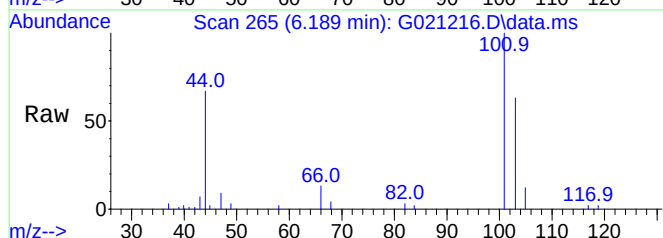
Tgt Ion: 43 Resp: 172913
Ion Ratio Lower Upper
43 100
58 34.3 13.9 53.9





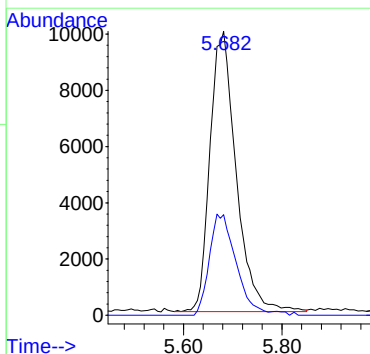
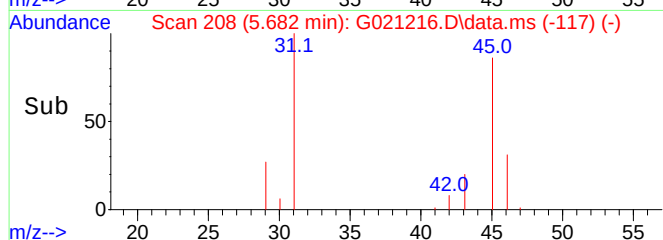
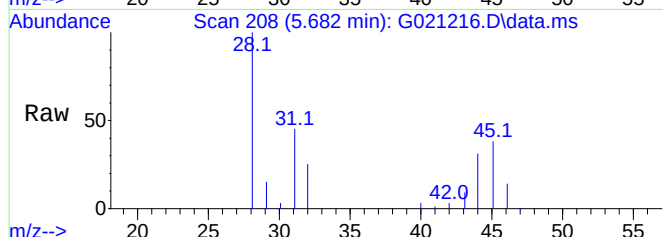
#12
TRICHLOROFLUOROMETHANE
Concen: 0.48 PPBV
RT: 6.189 min Scan# 265
Delta R.T. 0.026 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

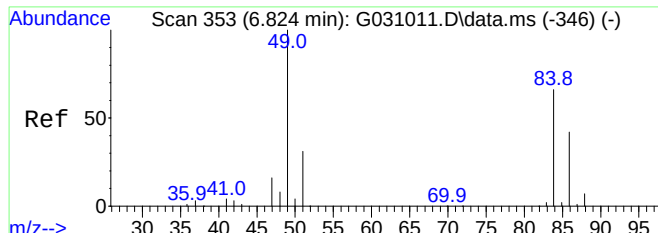
Tgt Ion: 101 Resp: 23341
Ion Ratio Lower Upper
101 100
103 63.8 44.8 84.8



#13
ETHANOL
Concen: 6.06 PPBV
RT: 5.682 min Scan# 208
Delta R.T. 0.108 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

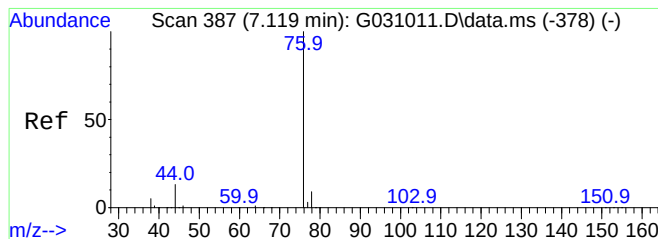
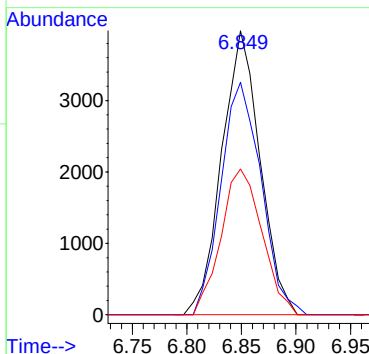
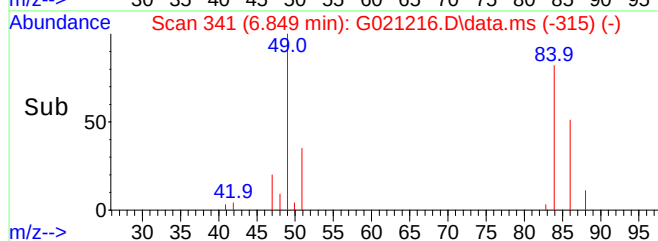
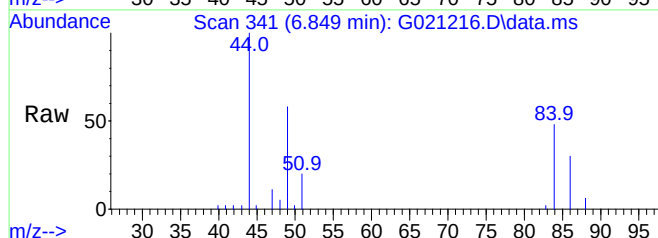
Tgt Ion: 45 Resp: 38514
Ion Ratio Lower Upper
45 100
46 37.1 14.0 54.0





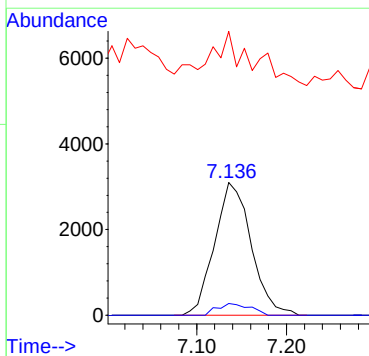
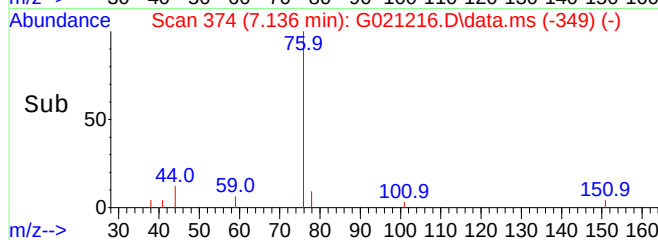
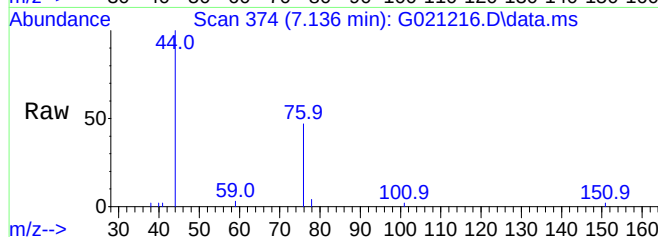
#15
METHYLENE CHLORIDE
Concen: 0.29 PPBV
RT: 6.849 min Scan# 341
Delta R.T. 0.026 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

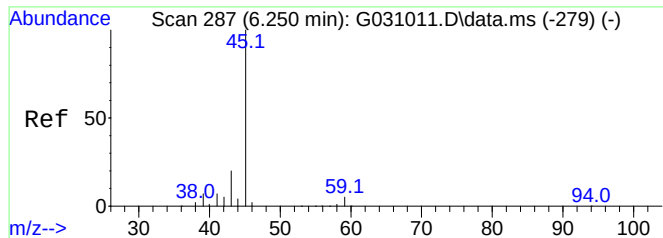
Tgt Ion: 49 Resp: 9757
Ion Ratio Lower Upper
49 100
84 85.9 45.2 85.2#
86 54.9 21.4 61.4



#17
CARBON DISULFIDE
Concen: 0.10 PPBV
RT: 7.136 min Scan# 374
Delta R.T. 0.017 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

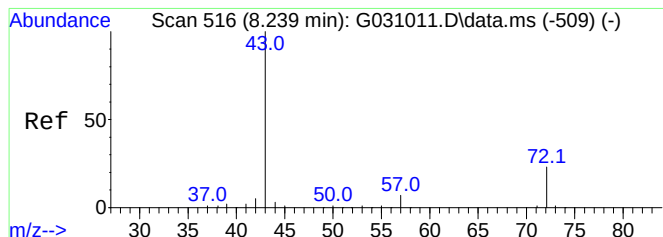
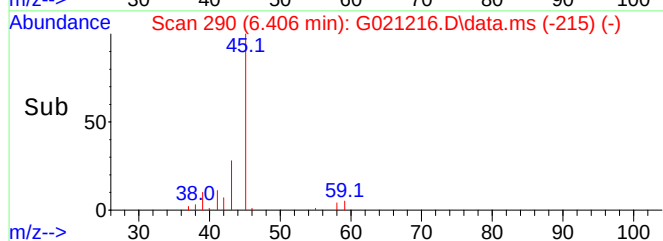
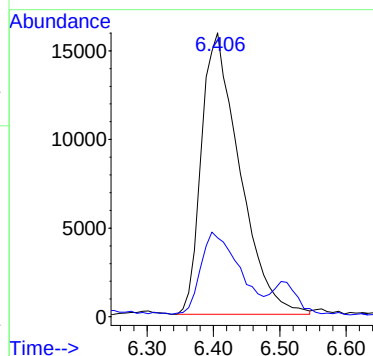
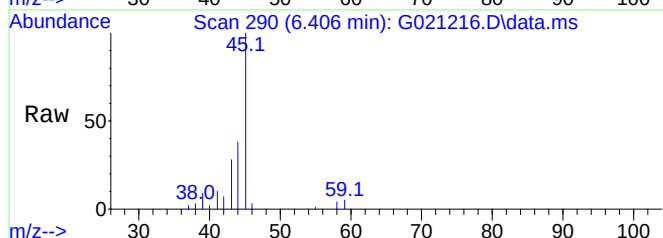
Tgt Ion: 76 Resp: 8765
Ion Ratio Lower Upper
76 100
78 8.0 0.0 30.7
44 21.6 0.0 33.4





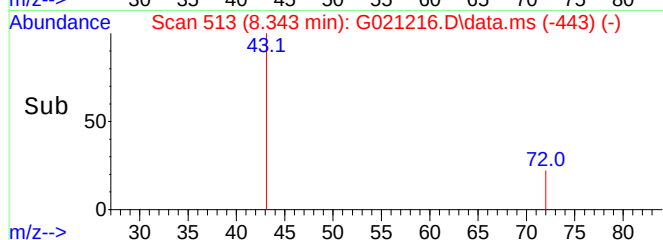
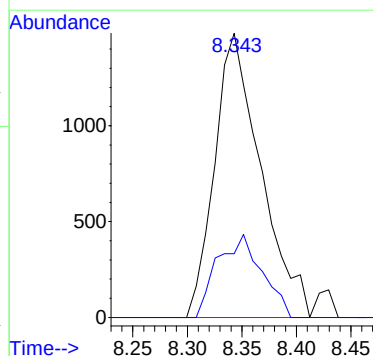
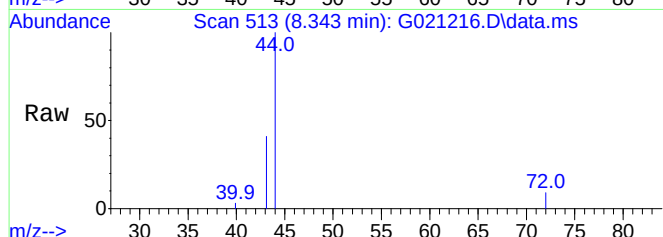
#21
IPA
Concen: 2.01 PPBV
RT: 6.406 min Scan# 290
Delta R.T. 0.156 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

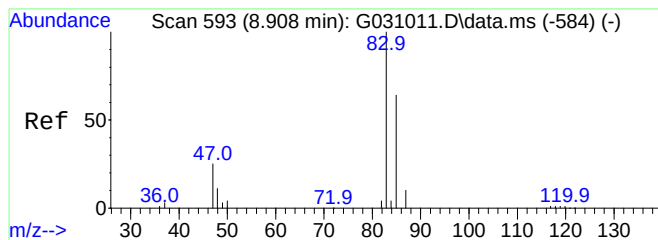
Tgt Ion: 45 Resp: 63748
Ion Ratio Lower Upper
45 100
43 30.1 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.07 PPBV
RT: 8.343 min Scan# 513
Delta R.T. 0.104 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

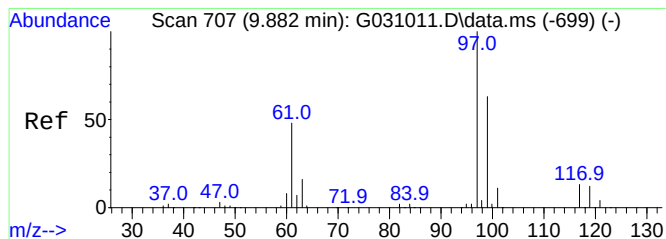
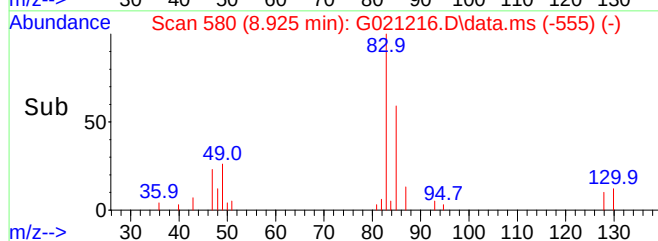
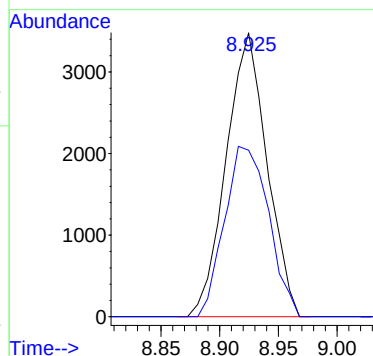
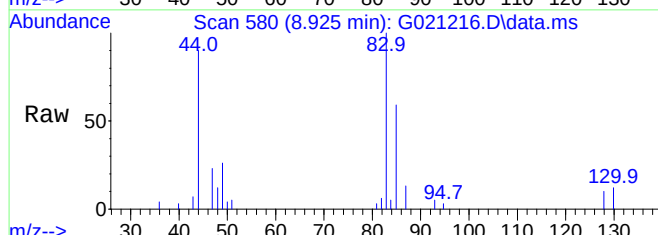
Tgt Ion: 43 Resp: 4362
Ion Ratio Lower Upper
43 100
72 28.0 2.6 42.6





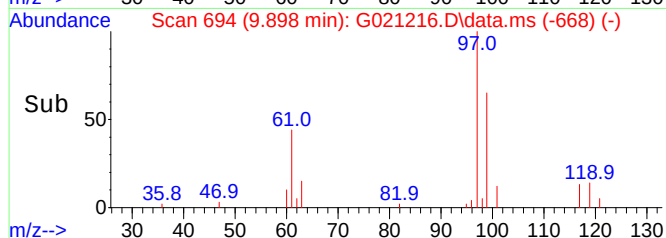
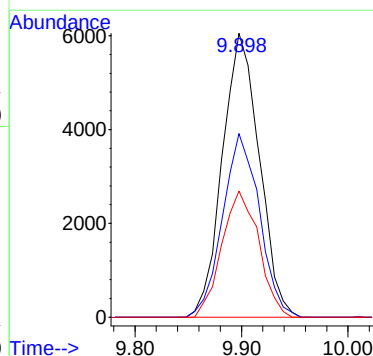
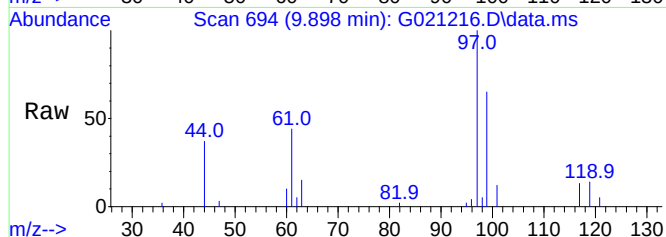
#27
CHLOROFORM
Concen: 0.14 PPBV
RT: 8.925 min Scan# 580
Delta R.T. 0.017 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

Tgt Ion: 83 Resp: 8395
Ion Ratio Lower Upper
83 100
85 64.8 44.9 84.9



#31
1,1,1-TRICHLOROETHANE
Concen: 0.23 PPBV
RT: 9.898 min Scan# 694
Delta R.T. 0.016 min
Lab File: G021216.D
Acq: 13 Feb 2012 11:31 am

Tgt Ion: 97 Resp: 14581
Ion Ratio Lower Upper
97 100
99 64.5 43.7 83.7
61 44.5 28.6 68.6



Data File : C:\msdchem\1\data\G021212\G021216.D
Acq On : 13 Feb 2012 11:31 am
Sample : 12B0323-05 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:44 2012

Vial: 8
Operator: TPH
Inst : SYSG
Multiplr: 1.00

197

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	953487	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.439	54	166474	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	594777	9.44	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	118.00%

Target Compounds	Qvalue

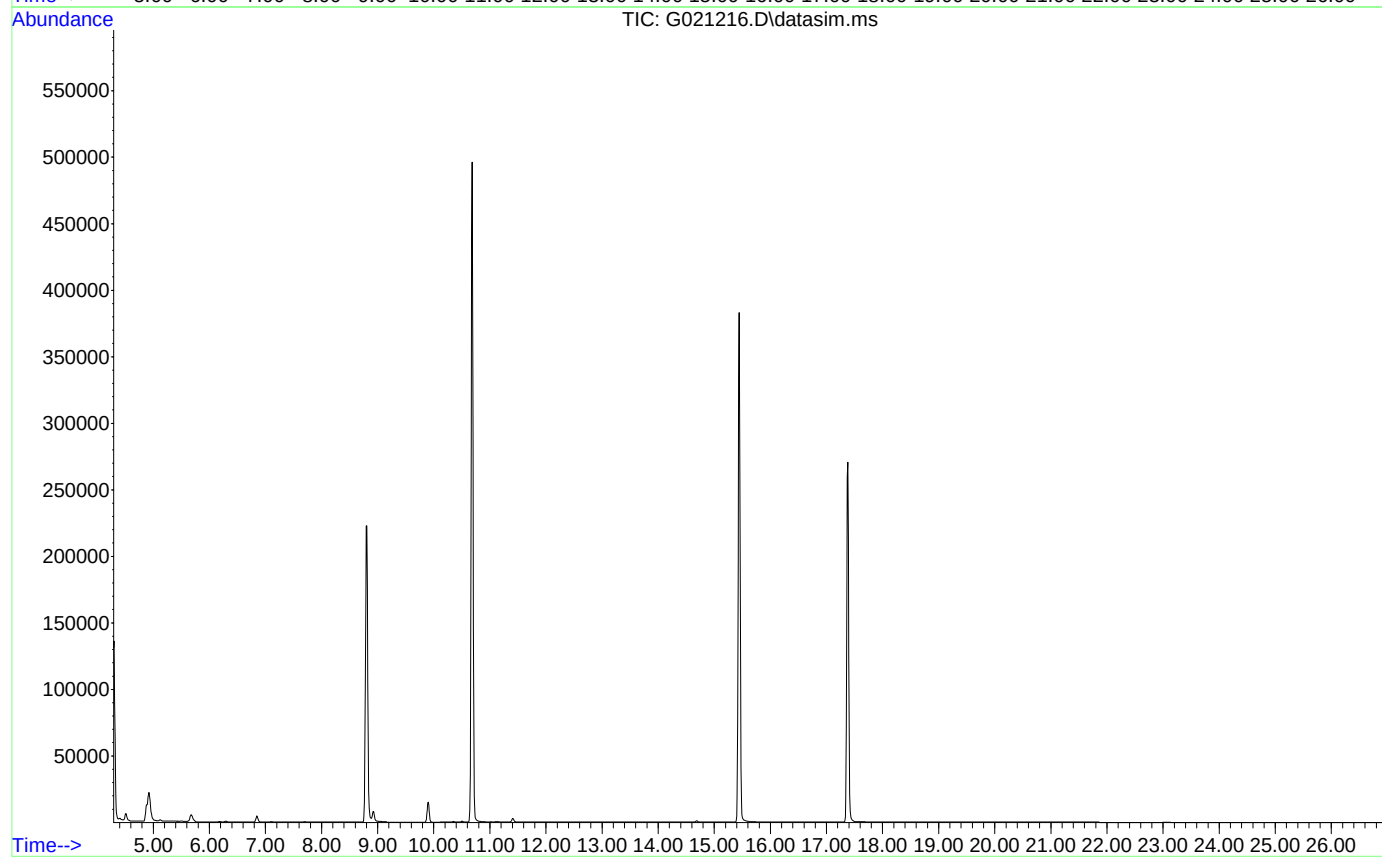
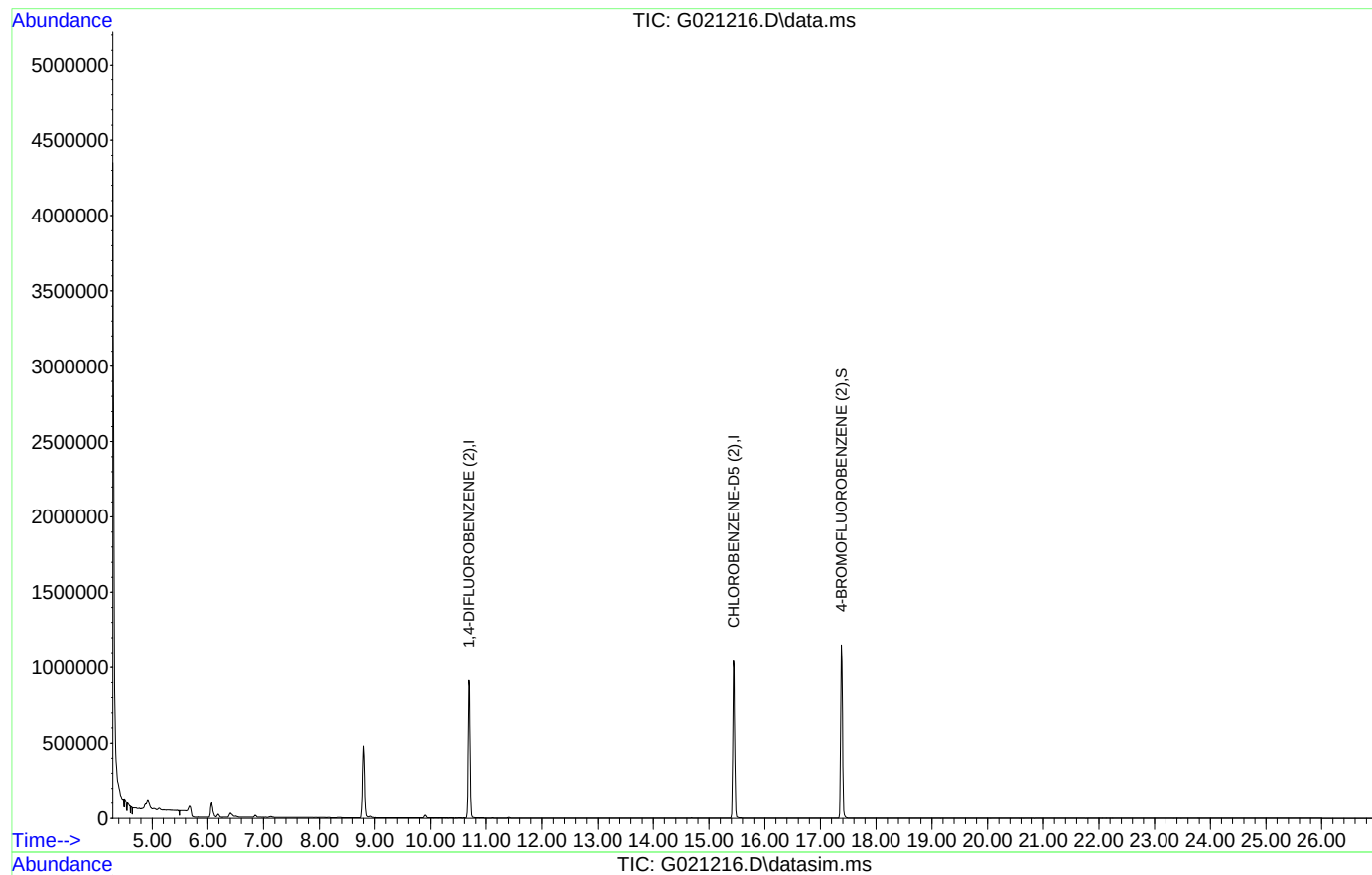
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021216.D
Acq On : 13 Feb 2012 11:31 am
Sample : 12B0323-05 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:44 2012

Vial: 8
Operator: TPH
Inst : SYSG
Multiplr: 1.00

198

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA03

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-06 File ID: G021414.D
 Sampled: 02/08/12 15:09 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 20:48
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	1.6	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.074	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform	0.063	0.013	0.035	
74-87-3	Chloromethane	0.71	0.018	0.035	
110-82-7	Cyclohexane	0.81	0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.51	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane	0.061	0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA03

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-06 File ID: G021414.D
 Sampled: 02/08/12 15:09 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 20:48
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	53	0.17	1.4	
100-41-4	Ethylbenzene	0.59	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.36	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.19	0.011	0.035	
100-42-5	Styrene	0.11	0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene	0.036	0.011	0.035	
108-88-3	Toluene	5.8	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene	0.052	0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.32	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.078	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene	0.42	0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene	0.18	0.011	0.035	
540-84-1	2,2,4-Trimethylpentane	0.52	0.030	0.094	V-05
75-01-4	Vinyl Chloride	0.13	0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA03

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-06	File ID:	G021414.D		
Sampled:	02/08/12 15:09	Prepared:	02/14/12 10:43	Analyzed:	02/14/12 20:48		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	1.8	0.018	0.070	
95-47-6	o-Xylene	0.69	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021414.D
 Acq On : 14 Feb 2012 8:48 pm
 Sample : 12B0323-06 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:49:06 2012

Vial: 6
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	312210	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	992738	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	911001	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	519405	8.37	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.62%
Target Compounds						
						Qvalue
2) PROPENE	4.475	41	200799	9.809	PPBV	84
3) DICHLORODIFLUOROMETHANE	4.542	85	44666	0.730	PPBV	99
4) CHLOROMETHANE	4.696	50	17889	1.017	PPBV	98
6) VINYL CHLORIDE	4.918	62	3902	0.187	PPBV	98
10) ACROLEIN	5.876	56	5802	0.792	PPBV	95
11) ACETONE	5.998	43	1417309	46.679	PPBV	88
12) TRICHLOROFLUOROMETHANE	6.163	101	22182	0.455	PPBV	98
13) ETHANOL	5.561	45	480499	75.201	PPBV	98
15) METHYLENE CHLORIDE	6.823	49	17424	0.512	PPBV	81
16) FREON 113	7.075	101	6126	0.111	PPBV	89
21) IPA	6.224	45	630757	19.744	PPBV	89
22) 2-BUTANONE(MEK)	8.230	43	83175	1.352	PPBV	88
25) HEXANE	8.846	41	55753	1.746	PPBV	93
26) ETHYL ACETATE	8.846	61	17605	1.619	PPBV	99
27) CHLOROFORM	8.899	83	5598	0.090	PPBV	86
28) TETRAHYDROFURAN	9.333	71	806	0.057	PPBV	88
29) 1,2-DICHLOROETHANE	9.624	62	3638	0.087	PPBV	97
32) BENZENE	10.338	78	275221	2.236	PPBV	95
33) CARBON TETRACHLORIDE	10.488	117	6229	0.106	PPBV	98
34) CYCLOHEXANE	10.621	84	59884	1.153	PPBV	79
37) TRICHLOROETHENE	11.397	95	3724	0.074	PPBV	91
40) HEPTANE	11.720	57	27051	0.732	PPBV	93
41) MIBK	12.380	43	24934	0.270	PPBV	79
46) TOLUENE	13.379	91	1134165	8.265	PPBV	100
50) TETRACHLOROETHENE	14.683	166	3076	0.052	PPBV	93
52) ETHYLBENZENE	15.960	91	146368	0.845	PPBV	97
53) M/P-XYLENE	16.169	91	356075	2.599	PPBV	95
55) STYRENE	16.647	104	15914	0.159	PPBV	99
56) O-XYLENE	16.786	91	134333	0.986	PPBV	94
59) 4-ETHYLTOLUENE	18.506	105	21202	0.117	PPBV	99
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	37264	0.250	PPBV	95
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	87977	0.594	PPBV	96

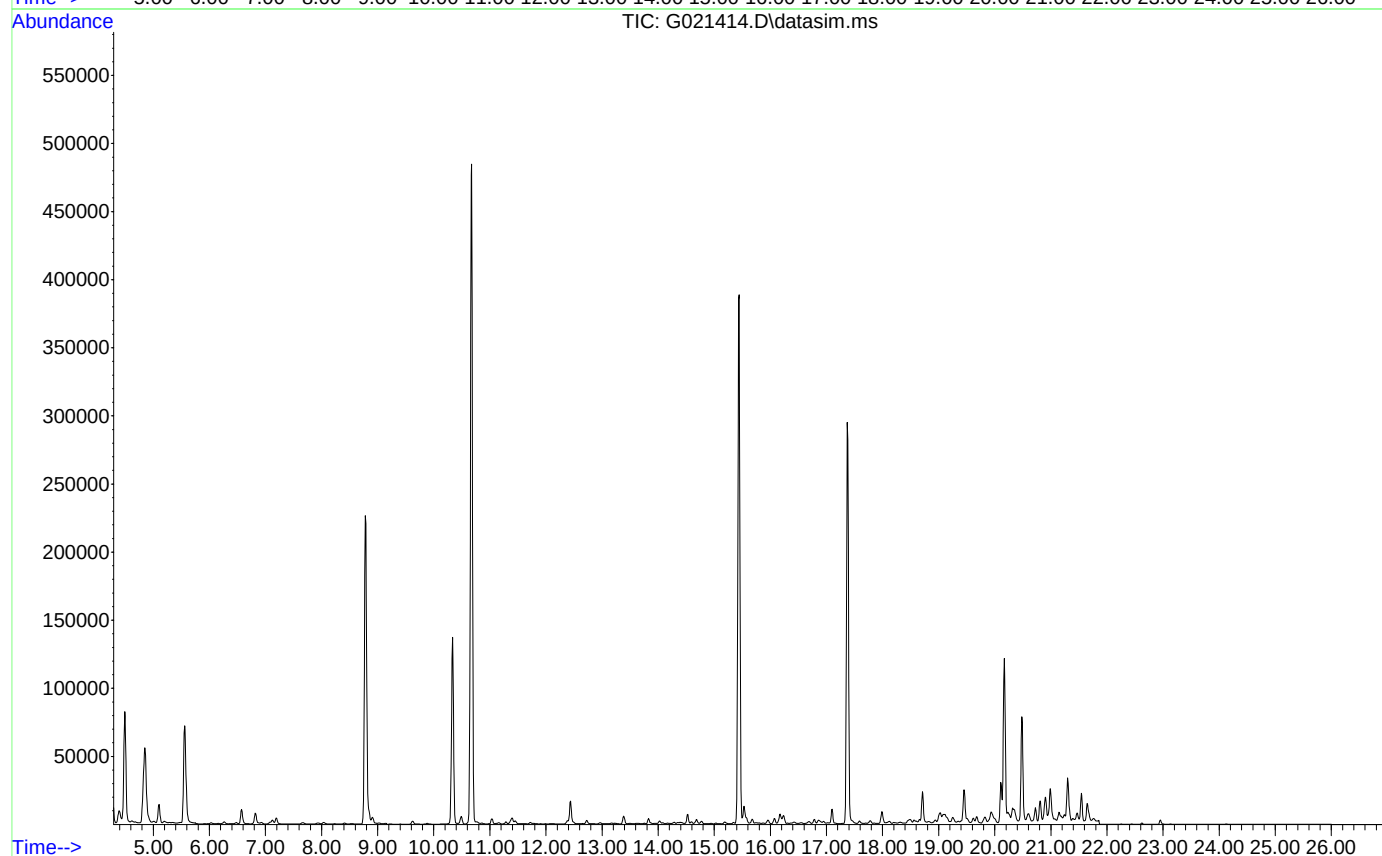
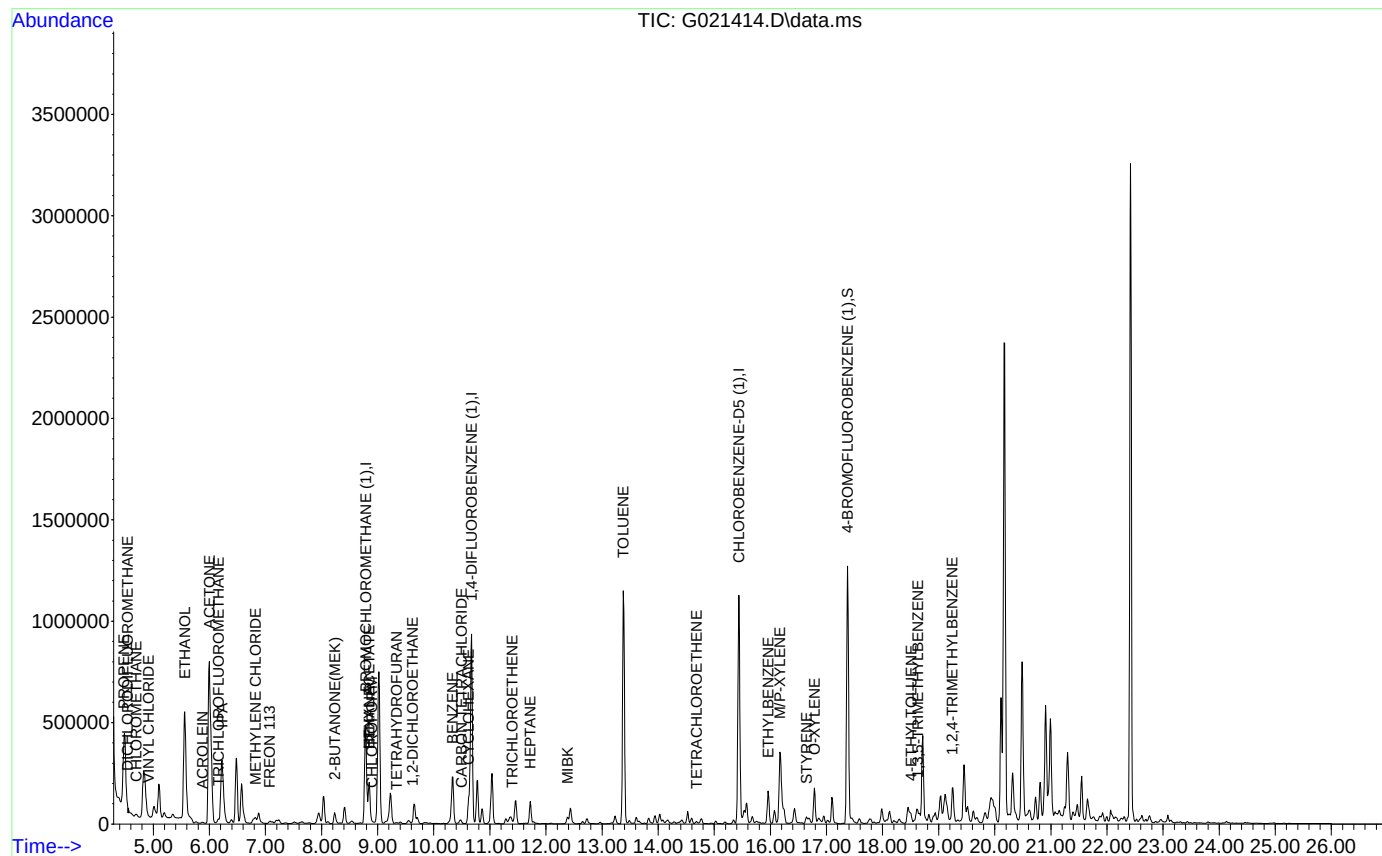
(#) = qualifier out of range (m) = manual integration (+) = signals summed

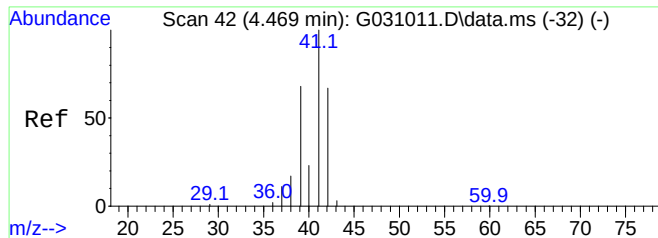
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Acq On : 14 Feb 2012 8:48 pm
Sample : 12B0323-06 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:49:06 2012

Vial: 6
Operator: WSD
Inst : SYSG
Multiplr: 1.00

203

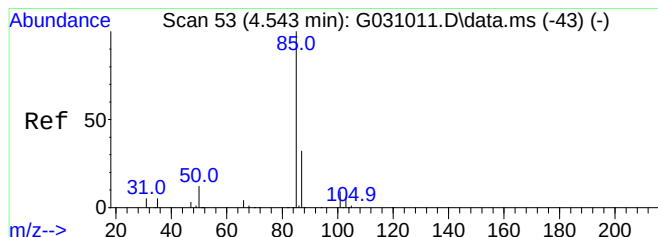
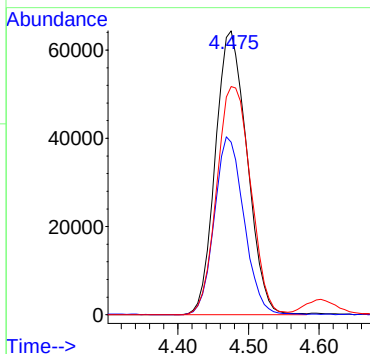
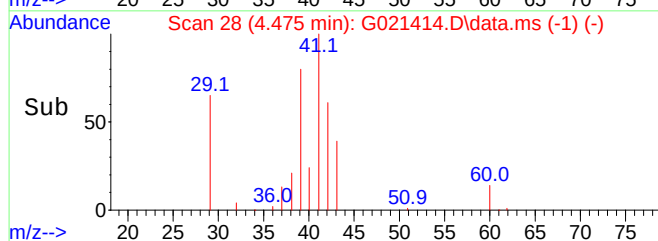
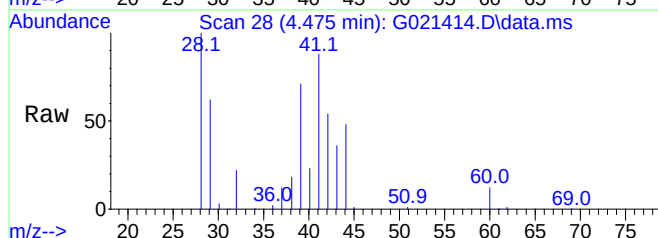
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





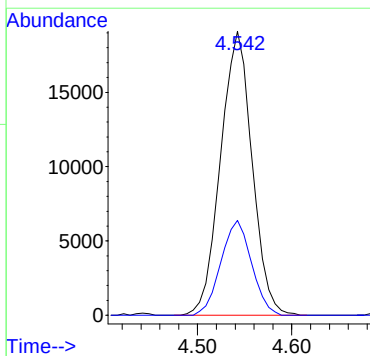
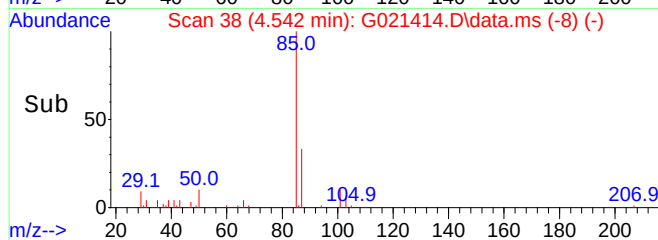
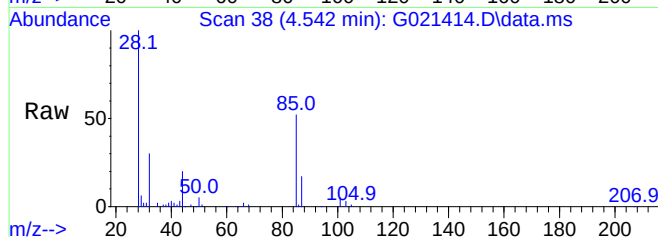
#2
PROPENE
Concen: 9.81 PPBV
RT: 4.475 min Scan# 28
Delta R.T. 0.007 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

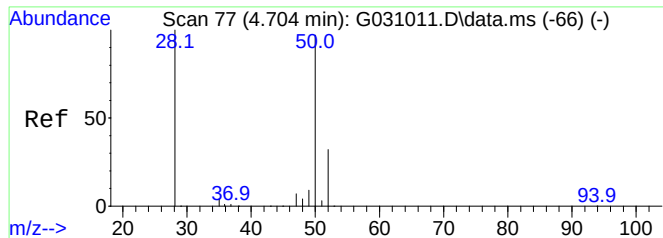
Tgt Ion: 41 Resp: 200799
Ion Ratio Lower Upper
41 100
42 58.5 46.4 86.4
39 86.0 48.8 88.8



#3
DICHLORODIFLUOROMETHANE
Concen: 0.73 PPBV
RT: 4.542 min Scan# 38
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

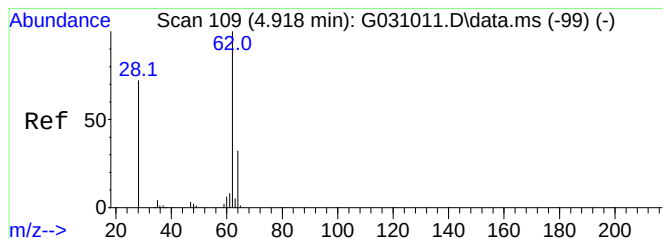
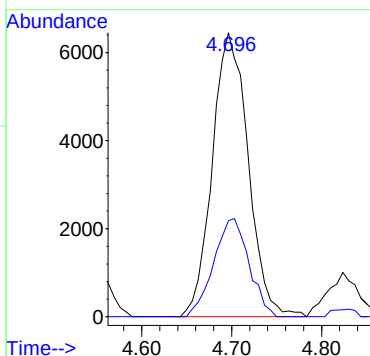
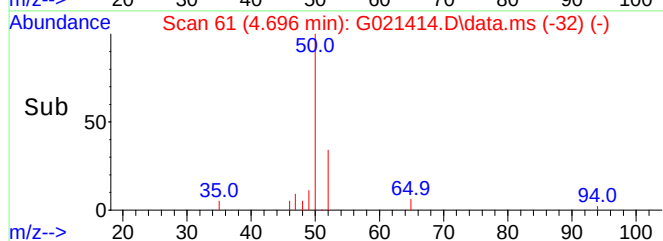
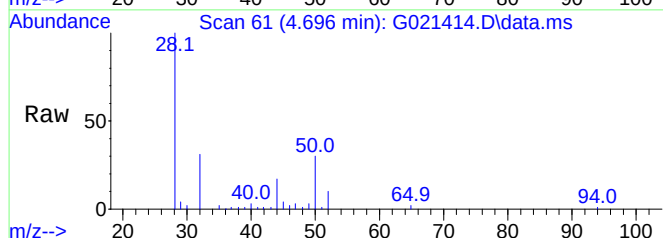
Tgt Ion: 85 Resp: 44666
Ion Ratio Lower Upper
85 100
87 32.4 12.1 52.1





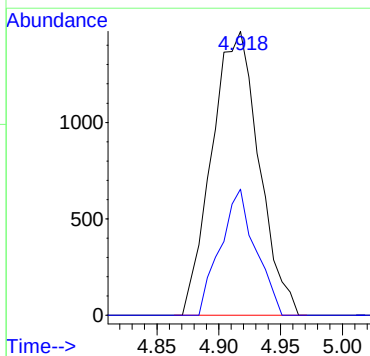
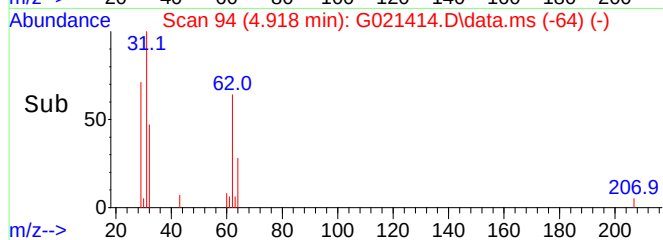
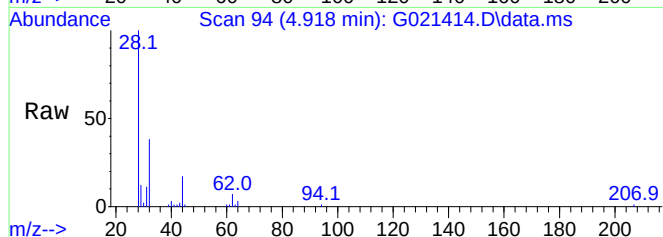
#4
 CHLOROMETHANE
 Concen: 1.02 PPBV
 RT: 4.696 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

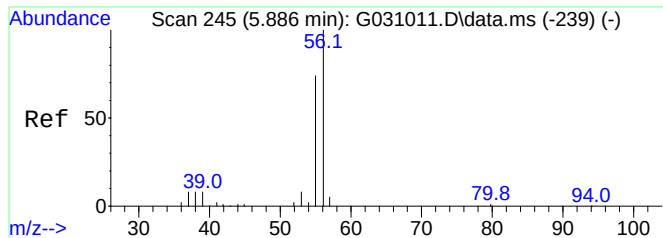
Tgt Ion: 50 Resp: 17889
 Ion Ratio Lower Upper
 50 100
 52 33.9 12.8 52.8



#6
 VINYL CHLORIDE
 Concen: 0.19 PPBV
 RT: 4.918 min Scan# 94
 Delta R.T. -0.000 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

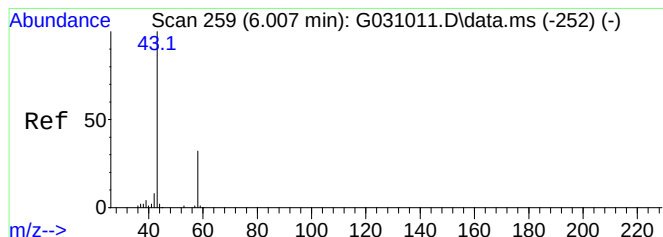
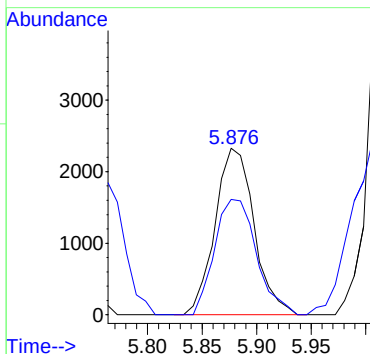
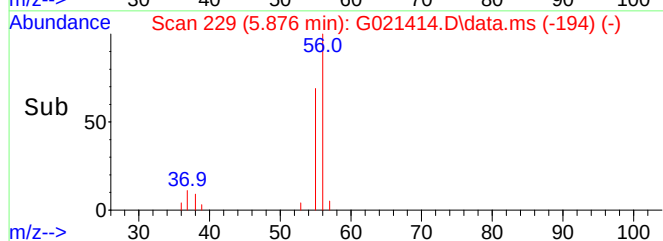
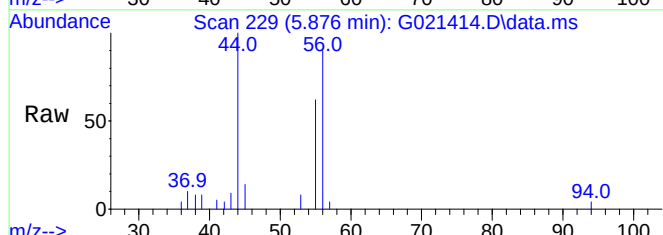
Tgt Ion: 62 Resp: 3902
 Ion Ratio Lower Upper
 62 100
 64 33.1 11.8 51.8





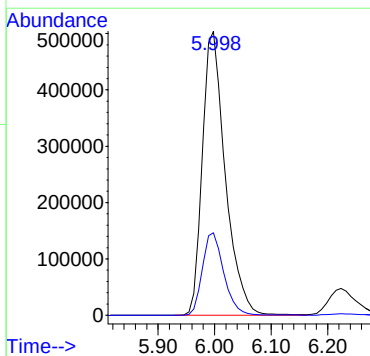
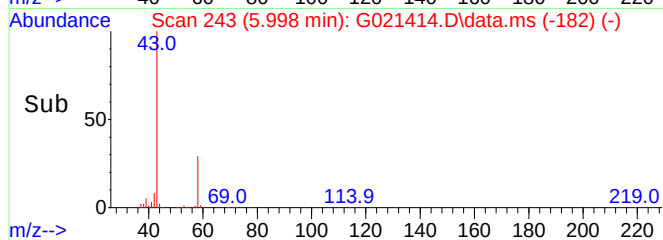
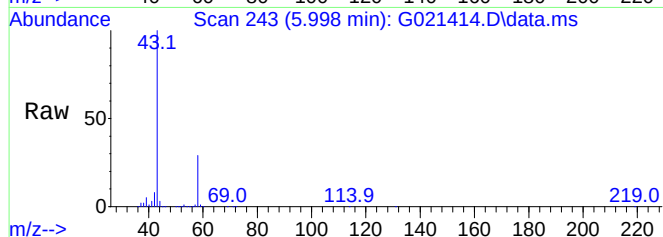
#10
ACROLEIN
Concen: 0.79 PPBV
RT: 5.876 min Scan# 229
Delta R.T. -0.009 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

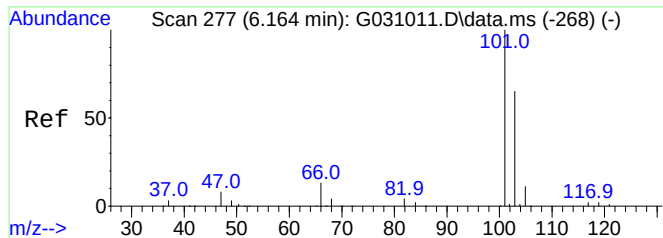
Tgt Ion: 56 Resp: 5802
Ion Ratio Lower Upper
56 100
55 74.3 56.1 84.1



#11
ACETONE
Concen: 46.68 PPBV
RT: 5.998 min Scan# 243
Delta R.T. -0.009 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

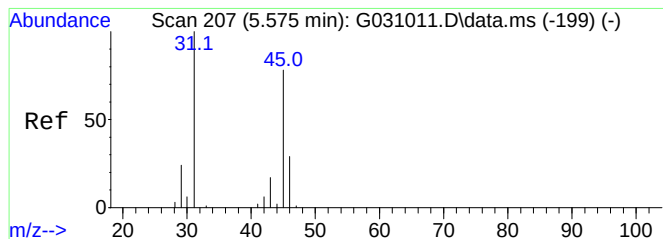
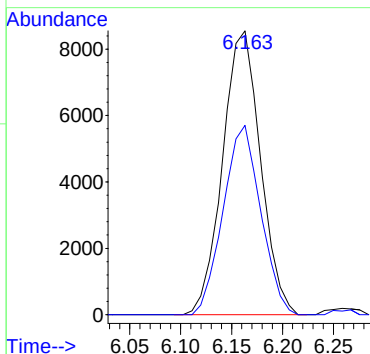
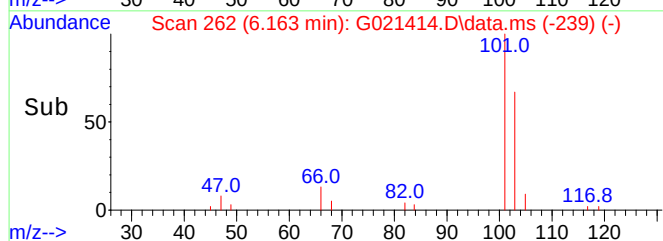
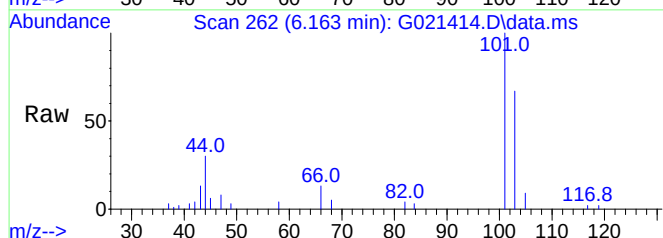
Tgt Ion: 43 Resp: 1417309
Ion Ratio Lower Upper
43 100
58 27.2 13.9 53.9





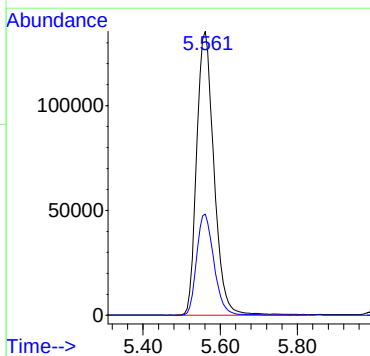
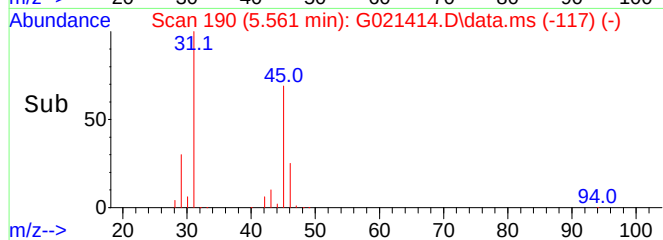
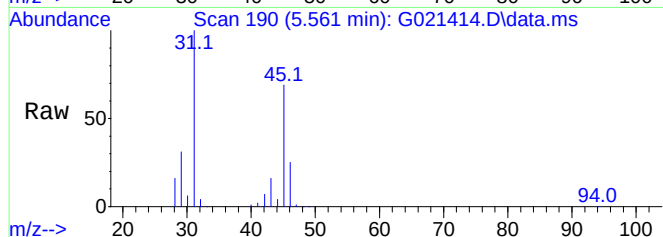
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.45 PPBV
 RT: 6.163 min Scan# 262
 Delta R.T. -0.001 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

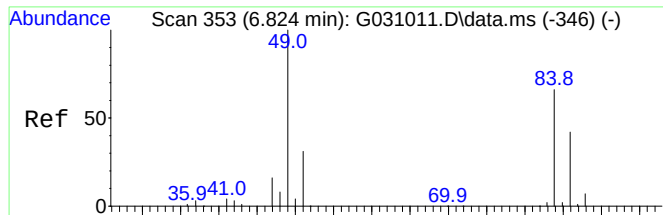
Tgt Ion: 101 Resp: 22182
 Ion Ratio Lower Upper
 101 100
 103 66.0 44.8 84.8



#13
 ETHANOL
 Concen: 75.20 PPBV
 RT: 5.561 min Scan# 190
 Delta R.T. -0.013 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

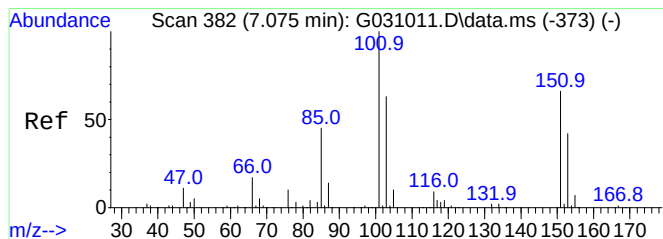
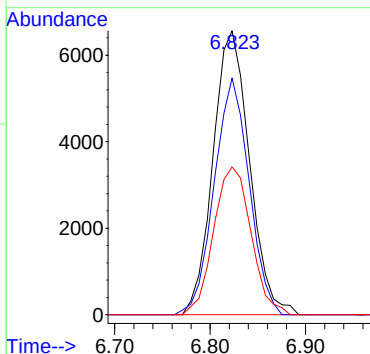
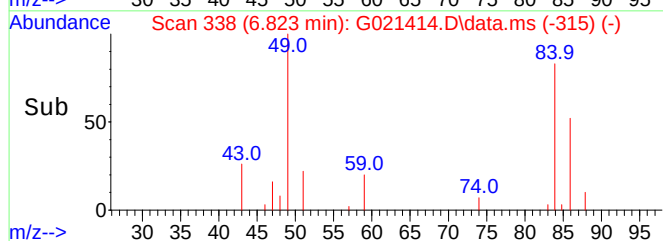
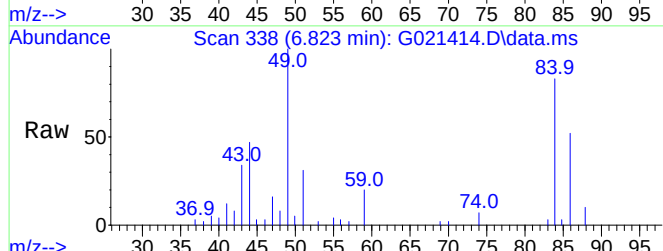
Tgt Ion: 45 Resp: 480499
 Ion Ratio Lower Upper
 45 100
 46 35.2 14.0 54.0





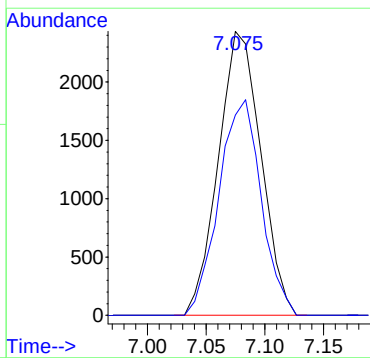
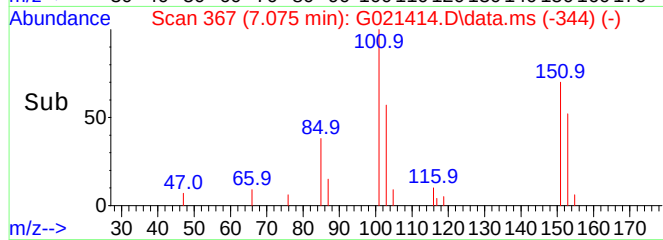
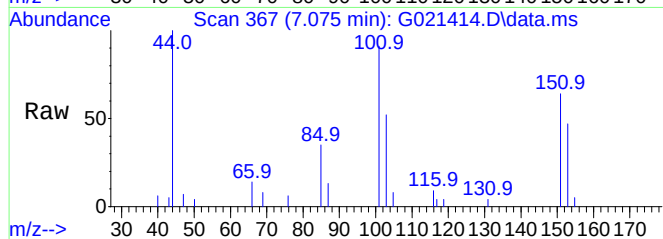
#15
METHYLENE CHLORIDE
Concen: 0.51 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

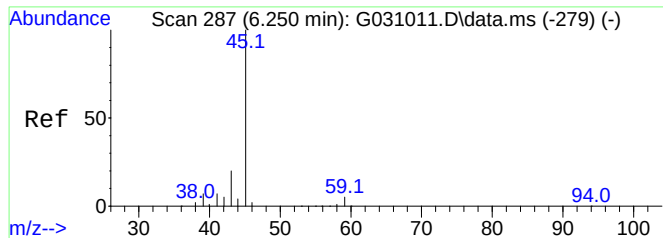
Tgt Ion: 49 Resp: 17424
Ion Ratio Lower Upper
49 100
84 79.6 45.2 85.2
86 53.2 21.4 61.4



#16
FREON 113
Concen: 0.11 PPBV
RT: 7.075 min Scan# 367
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

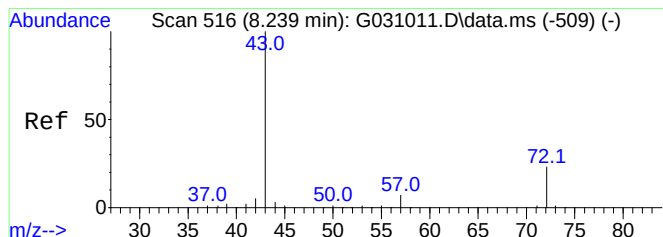
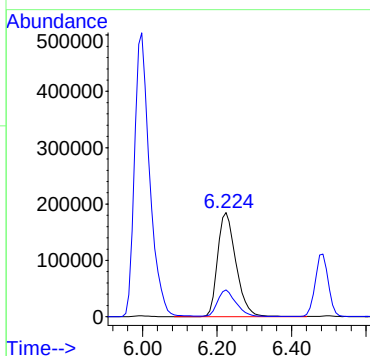
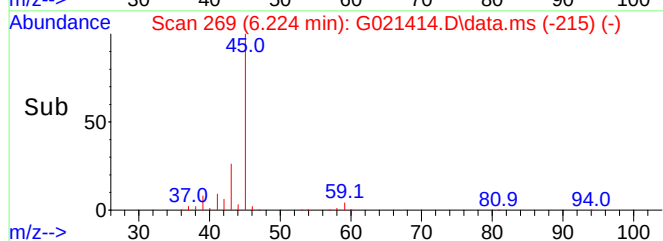
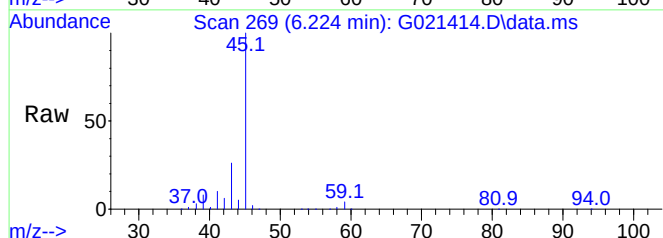
Tgt Ion: 101 Resp: 6126
Ion Ratio Lower Upper
101 100
151 75.4 46.3 86.3





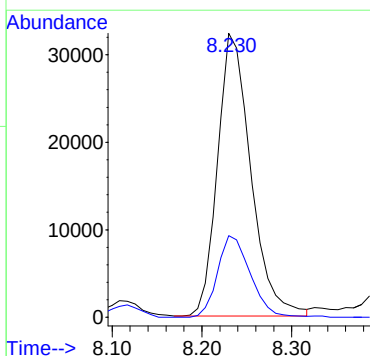
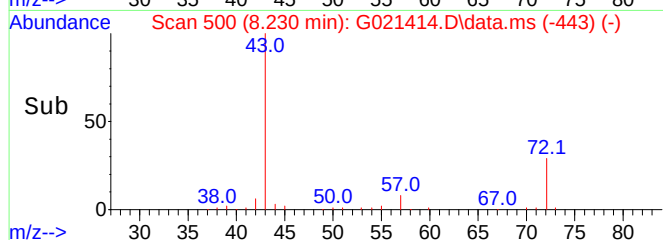
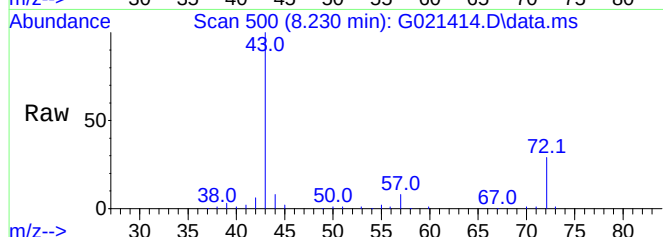
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IPA
Concen: 19.74 PPBV
RT: 6.224 min Scan# 269
Delta R.T. -0.026 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

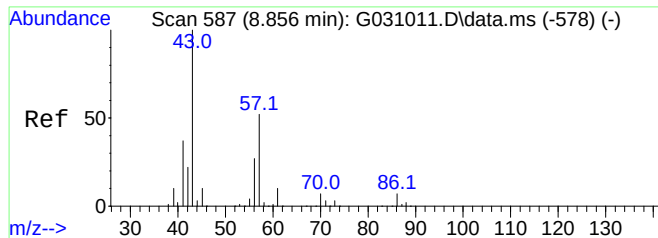
Tgt Ion: 45 Resp: 630757
Ion Ratio Lower Upper
45 100
43 25.5 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 1.35 PPBV
RT: 8.230 min Scan# 500
Delta R.T. -0.009 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

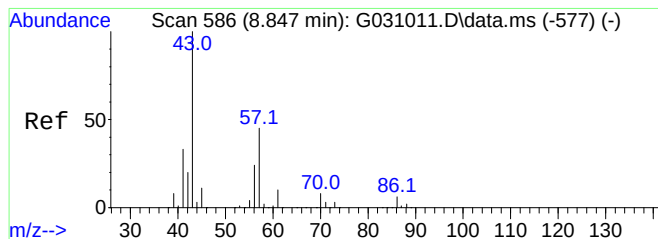
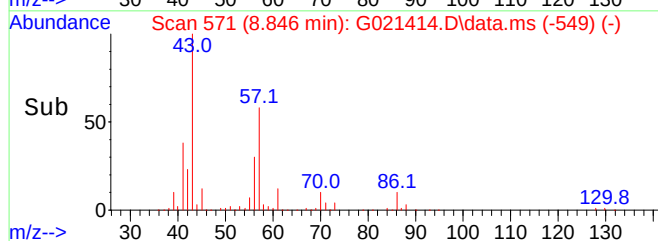
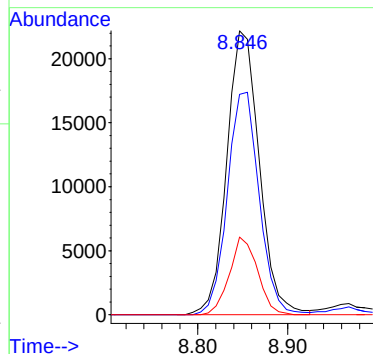
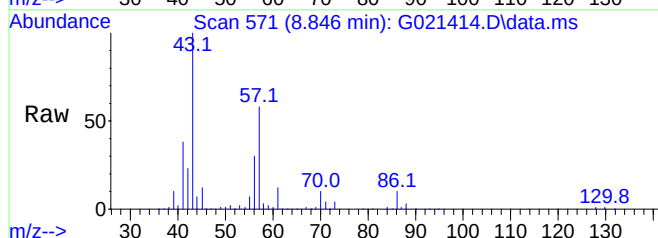
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Ion Ratio Lower Upper
43 100
72 28.5 2.6 42.6





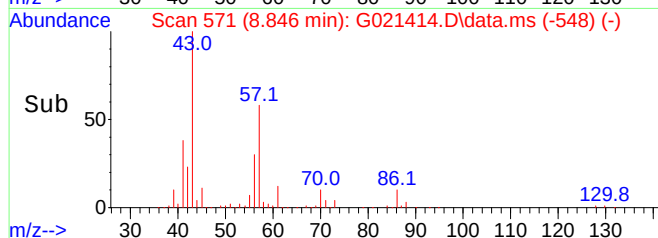
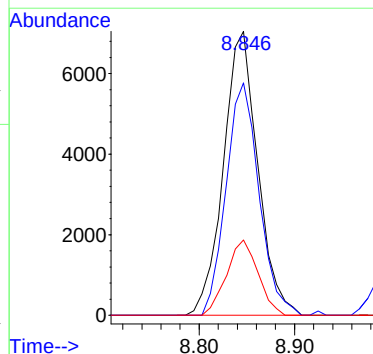
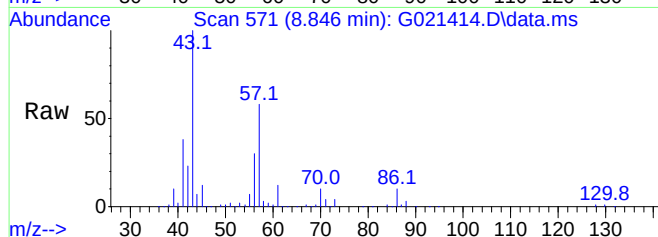
#25
 HEXANE
 Concen: 1.75 PPBV
 RT: 8.846 min Scan# 571
 Delta R.T. -0.009 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

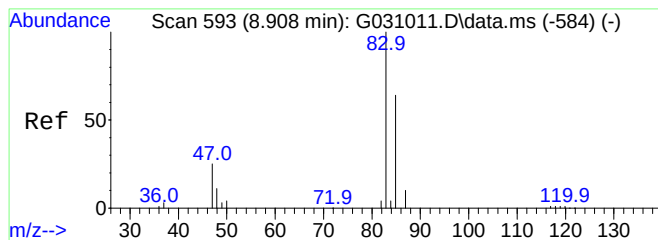
Tgt Ion: 41 Resp: 55753
 Ion Ratio Lower Upper
 41 100
 56 76.6 50.8 90.8
 86 23.6 9.6 29.6



#26
 ETHYL ACETATE
 Concen: 1.62 PPBV
 RT: 8.846 min Scan# 571
 Delta R.T. -0.001 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

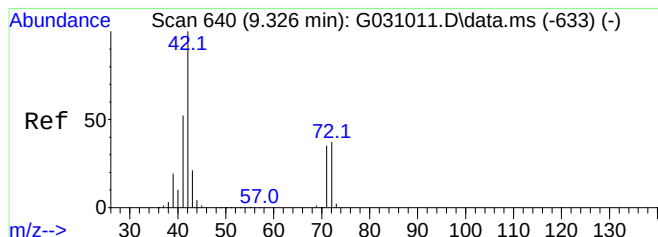
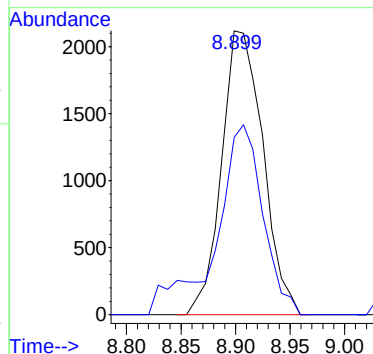
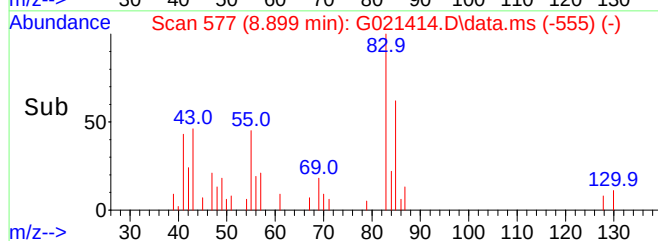
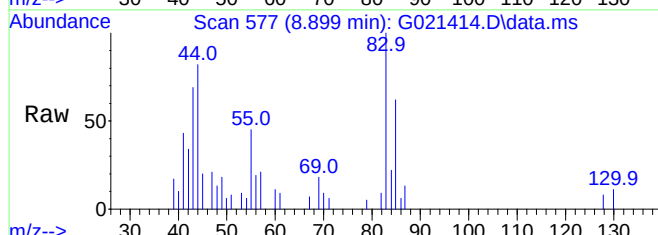
Tgt Ion: 61 Resp: 17605
 Ion Ratio Lower Upper
 61 100
 70 78.5 58.2 98.2
 88 24.3 3.0 43.0





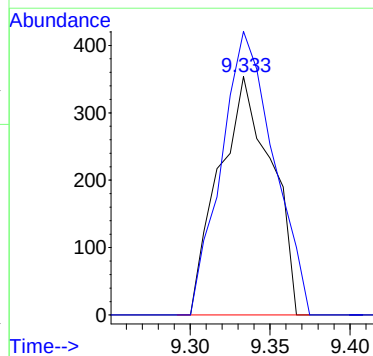
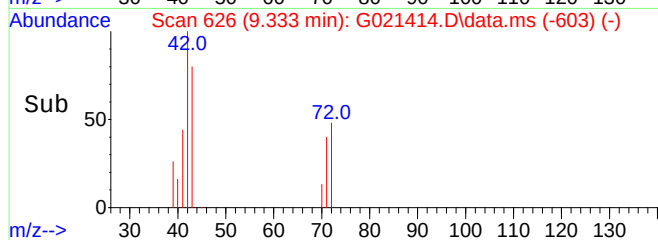
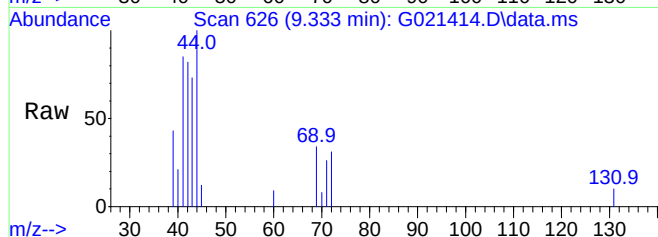
#27
CHLOROFORM
Concen: 0.09 PPBV
RT: 8.899 min Scan# 577
Delta R.T. -0.009 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

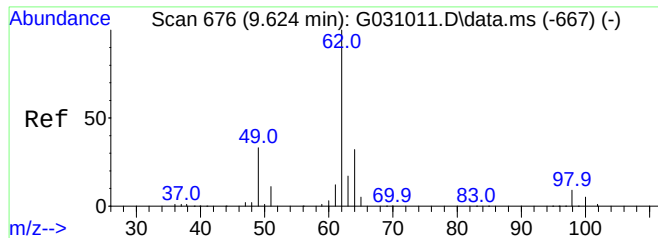
Tgt Ion: 83 Resp: 5598
Ion Ratio Lower Upper
83 100
85 75.9 44.9 84.9



#28
TETRAHYDROFURAN
Concen: 0.06 PPBV
RT: 9.333 min Scan# 626
Delta R.T. 0.008 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

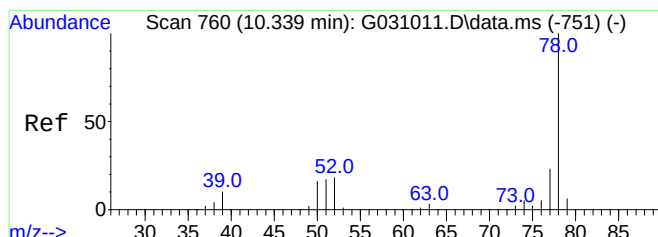
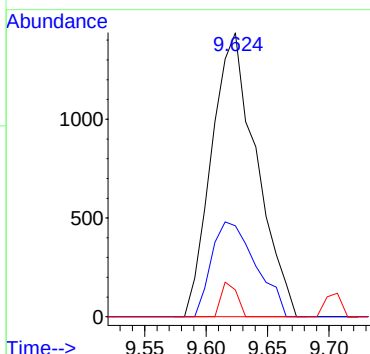
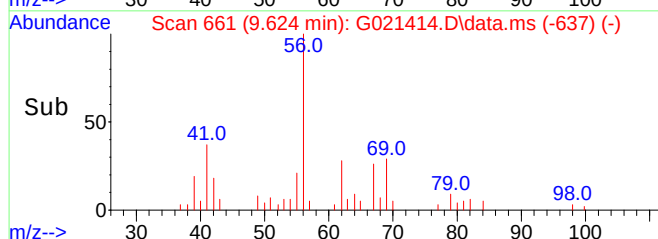
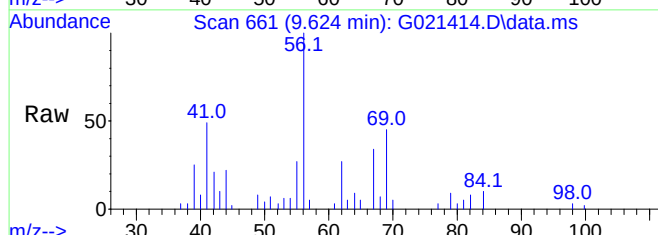
Tgt Ion: 71 Resp: 806
Ion Ratio Lower Upper
71 100
72 119.0 86.9 126.9





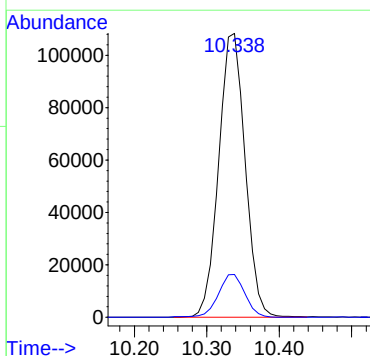
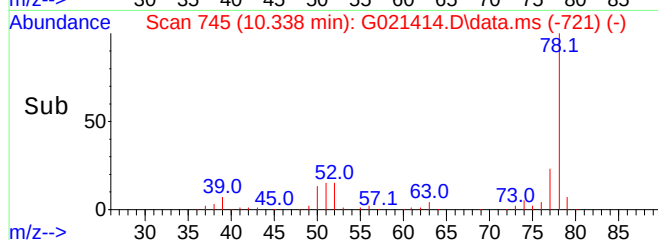
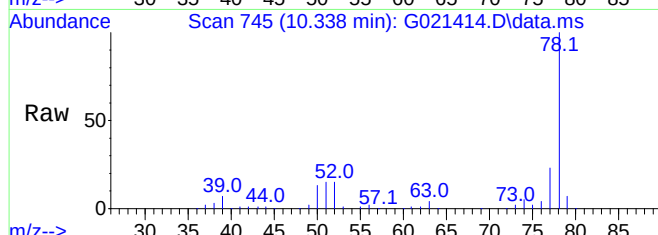
#29
1,2-DICHLOROETHANE
Concen: 0.09 PPBV
RT: 9.624 min Scan# 661
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

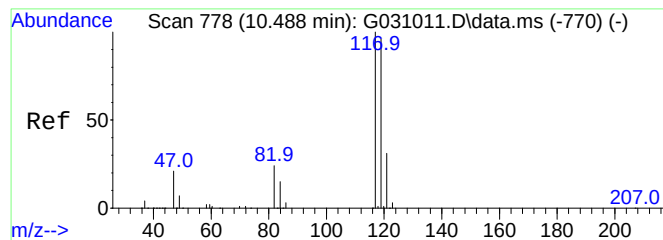
Tgt Ion: 62 Resp: 3638
Ion Ratio Lower Upper
62 100
64 33.0 12.5 52.5
98 4.3 0.0 18.4



#32
BENZENE
Concen: 2.24 PPBV
RT: 10.338 min Scan# 745
Delta R.T. -0.001 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

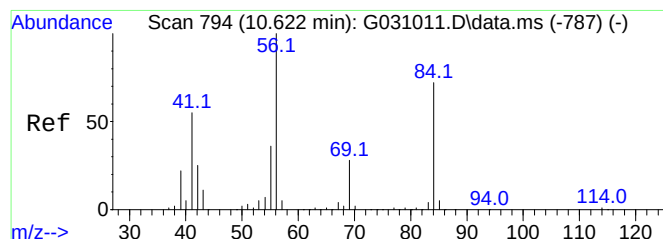
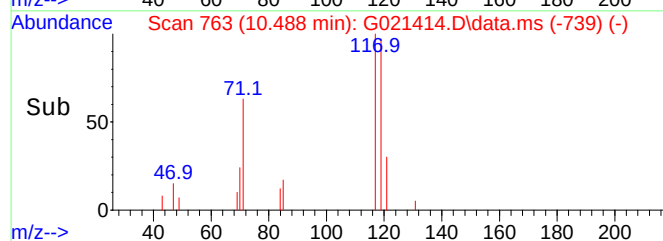
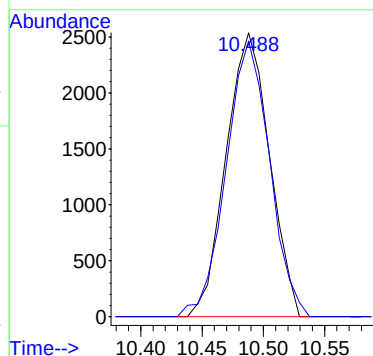
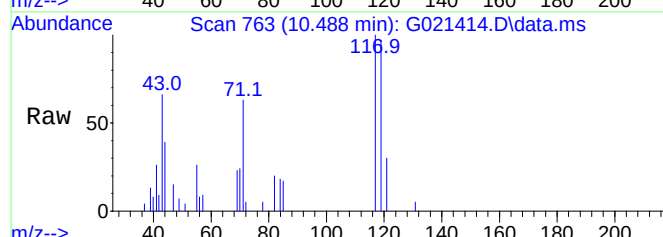
Tgt Ion: 78 Resp: 275221
Ion Ratio Lower Upper
78 100
51 15.2 0.0 37.6





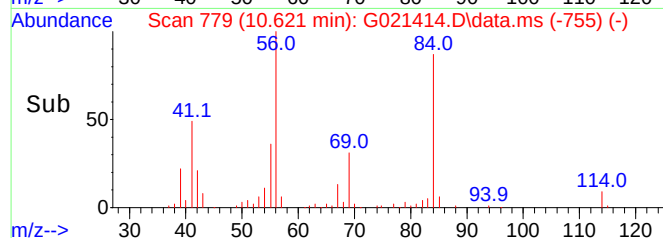
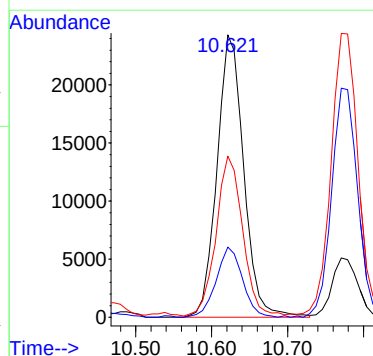
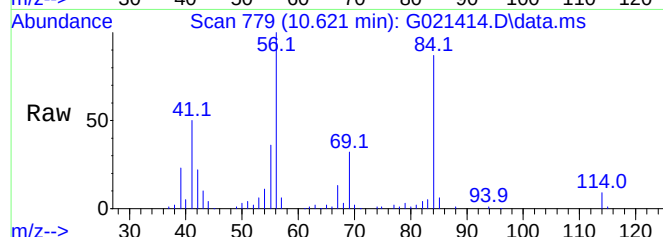
#33
CARBON TETRACHLORIDE
Concen: 0.11 PPBV
RT: 10.488 min Scan# 763
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

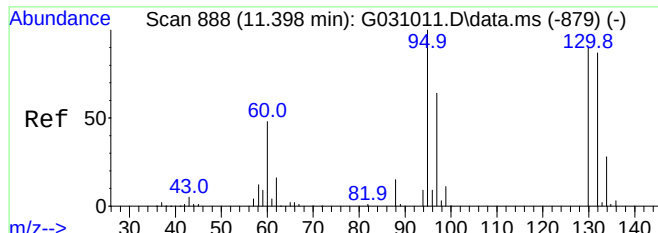
Tgt Ion: 117 Resp: 6229
Ion Ratio Lower Upper
117 100
119 97.3 75.4 115.4



#34
CYCLOHEXANE
Concen: 1.15 PPBV
RT: 10.621 min Scan# 779
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

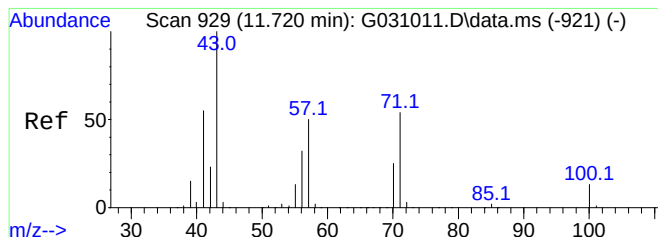
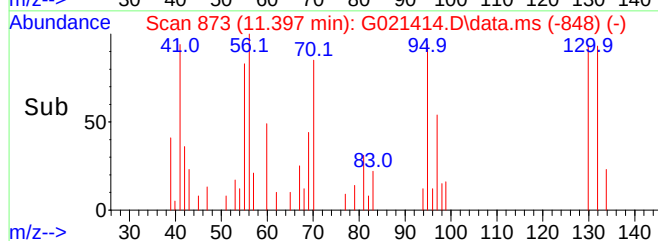
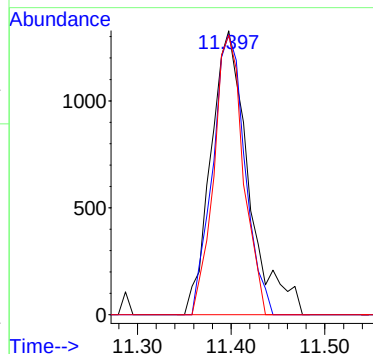
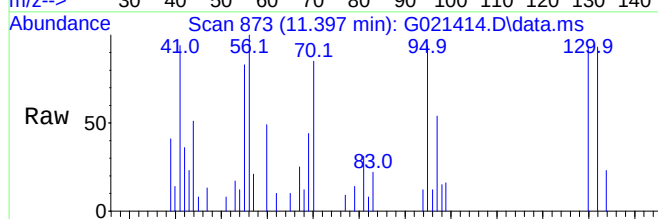
Tgt Ion: 84 Resp: 59884
Ion Ratio Lower Upper
84 100
42 24.4 13.2 53.2
41 55.8 55.4 95.4





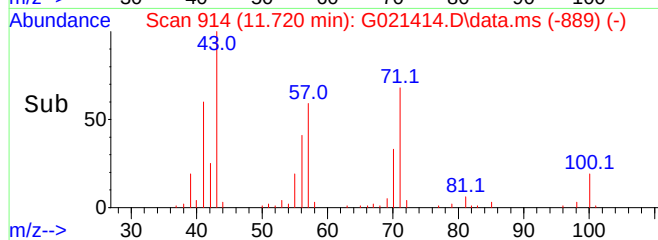
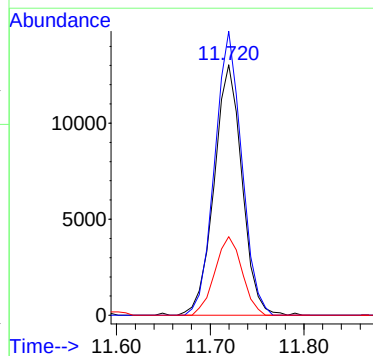
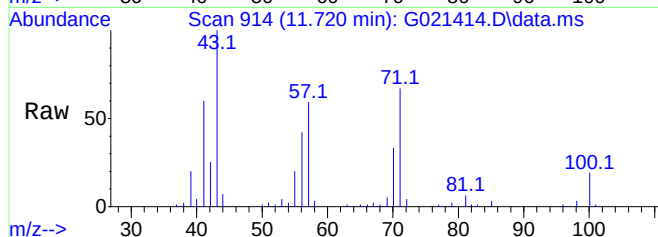
#37
TRICHLOROETHENE
Concen: 0.07 PPBV
RT: 11.397 min Scan# 873
Delta R.T. -0.001 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

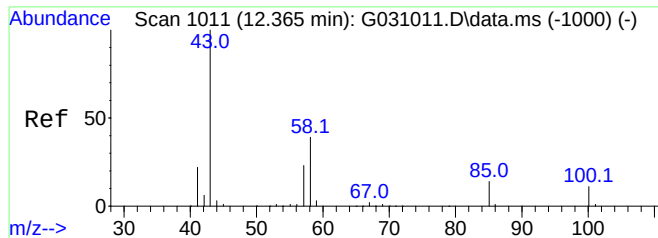
Tgt Ion: 95 Resp: 3724
Ion Ratio Lower Upper
95 100
130 84.1 71.2 111.2
132 76.6 66.9 106.9



#40
HEPTANE
Concen: 0.73 PPBV
RT: 11.720 min Scan# 914
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

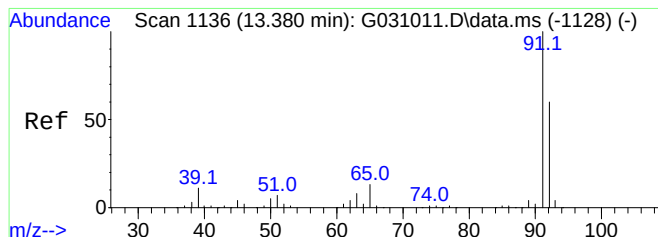
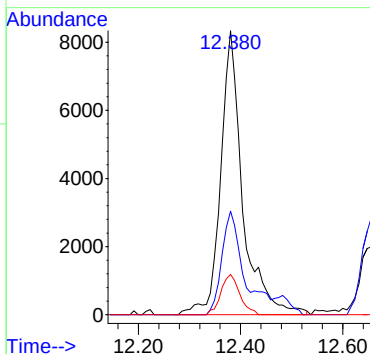
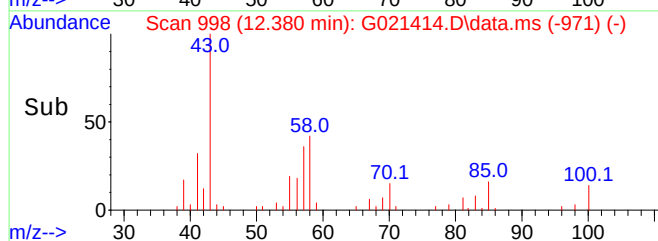
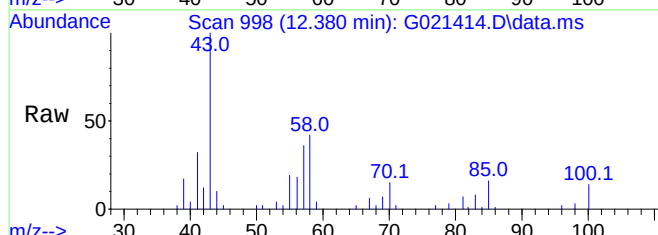
Tgt Ion: 57 Resp: 27051
Ion Ratio Lower Upper
57 100
71 109.5 83.8 123.8
100 30.6 5.4 45.4





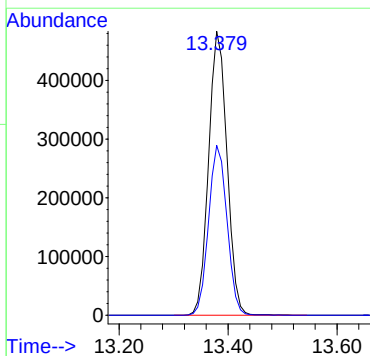
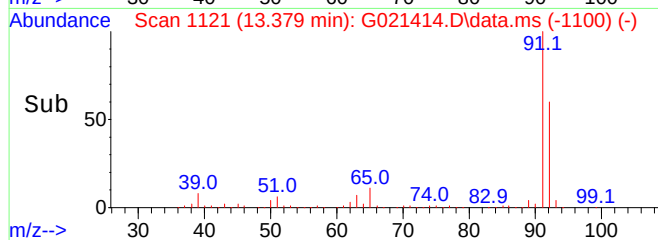
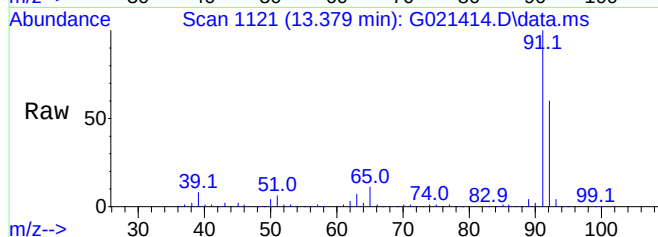
#41
MIBK
Concen: 0.27 PPBV
RT: 12.380 min Scan# 998
Delta R.T. 0.015 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

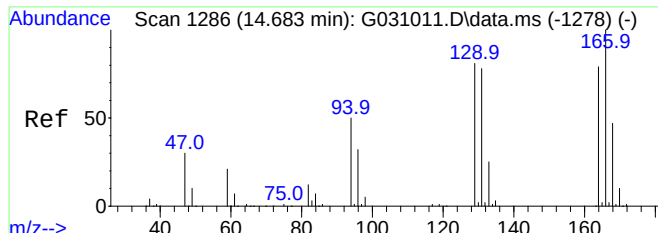
Tgt Ion: 43 Resp: 24934
Ion Ratio Lower Upper
43 100
57 37.5 2.8 42.8
100 12.1 1.0 21.0



#46
TOLUENE
Concen: 8.27 PPBV
RT: 13.379 min Scan# 1121
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

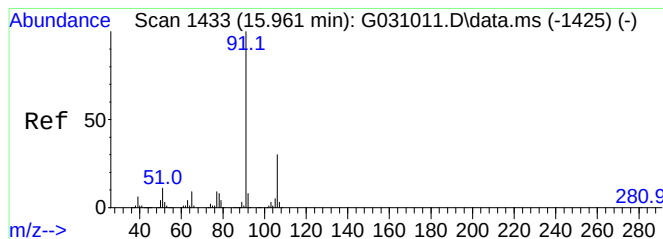
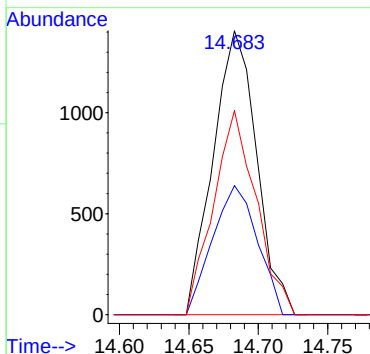
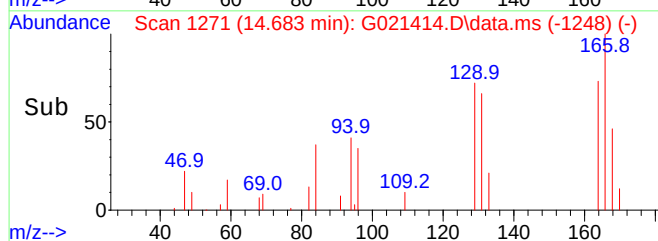
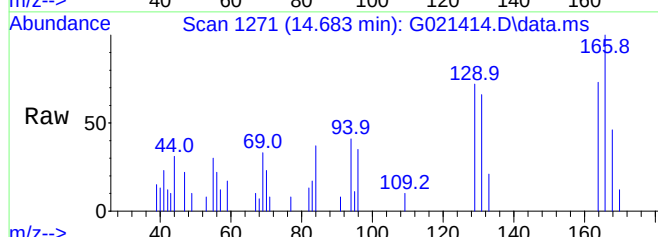
Tgt Ion: 91 Resp: 1134165
Ion Ratio Lower Upper
91 100
92 59.9 39.7 79.7





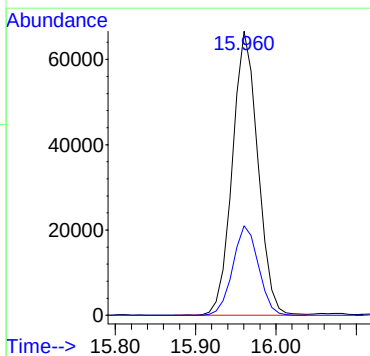
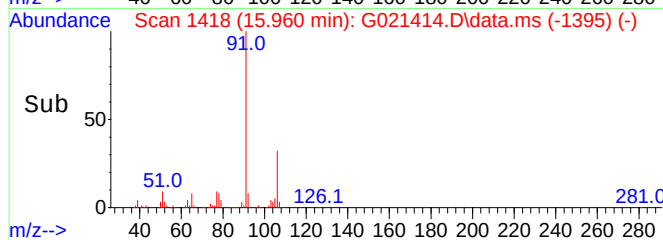
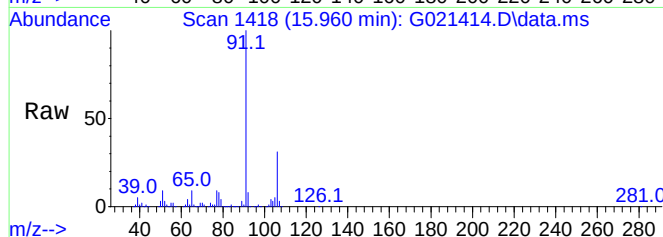
#50
TETRACHLOROETHENE
Concen: 0.05 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.001 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

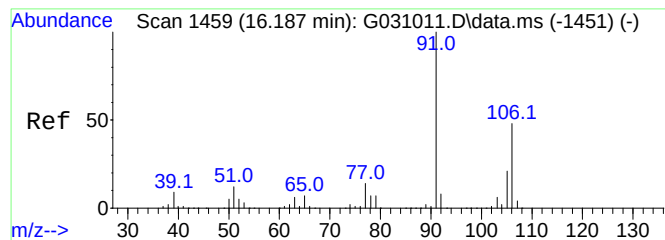
Tgt Ion: 166 Resp: 3076
Ion Ratio Lower Upper
166 100
168 46.8 27.0 67.0
129 70.4 60.6 100.6



#52
ETHYLBENZENE
Concen: 0.85 PPBV
RT: 15.960 min Scan# 1418
Delta R.T. -0.001 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

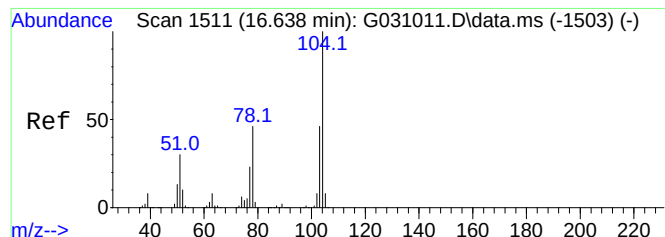
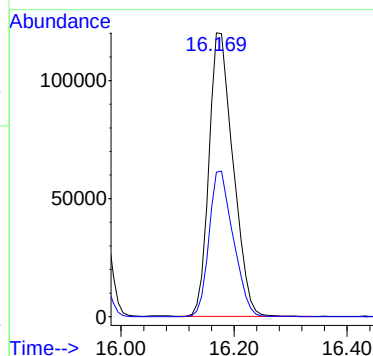
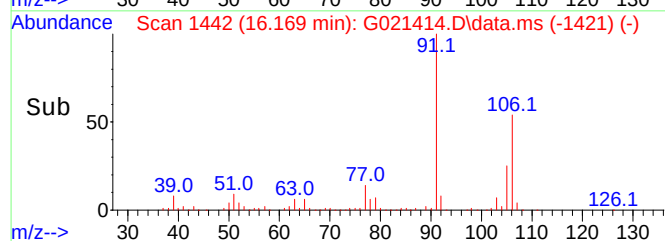
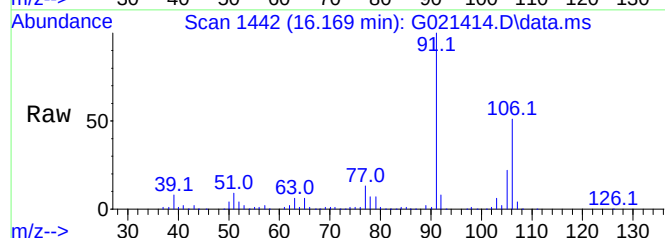
Tgt Ion: 91 Resp: 146368
Ion Ratio Lower Upper
91 100
106 31.7 10.0 50.0





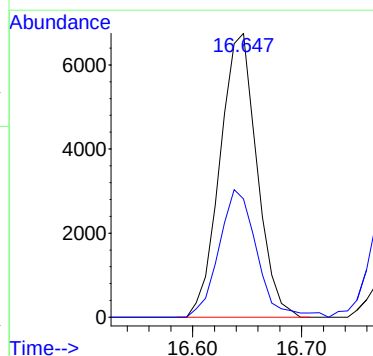
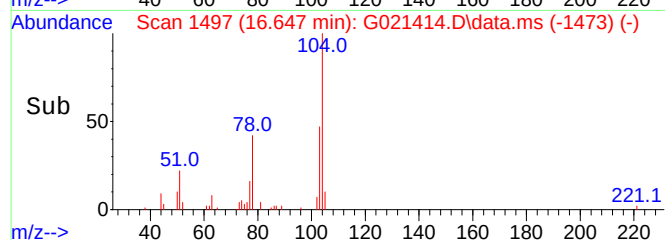
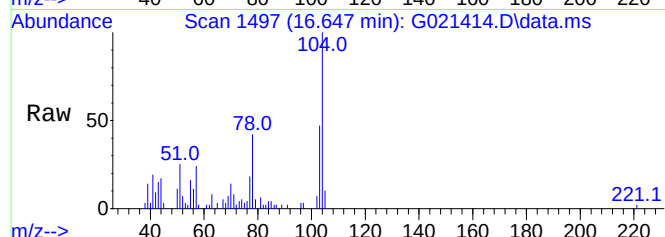
#53
M/P-XYLENE
Concen: 2.60 PPBV
RT: 16.169 min Scan# 1442
Delta R.T. -0.018 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

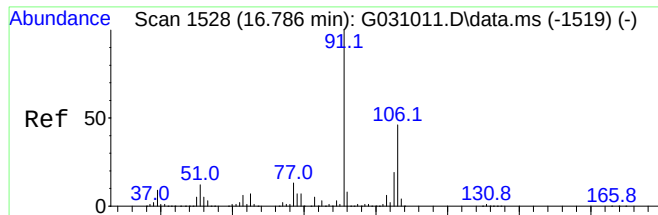
Tgt Ion: 91 Resp: 356075
Ion Ratio Lower Upper
91 100
106 51.5 28.3 68.3



#55
STYRENE
Concen: 0.16 PPBV
RT: 16.647 min Scan# 1497
Delta R.T. 0.008 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

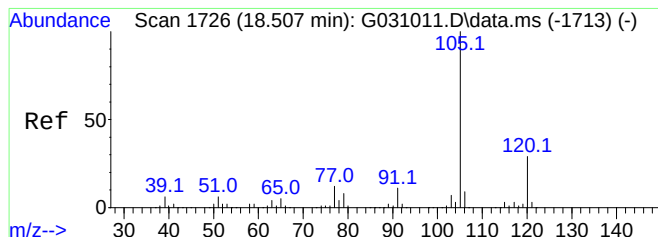
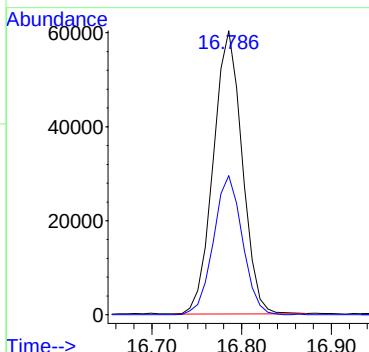
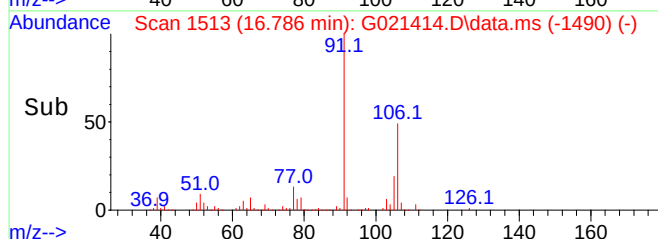
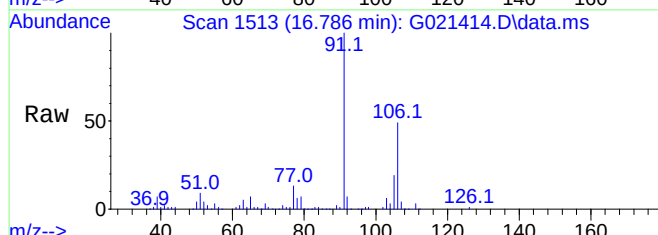
Tgt Ion: 104 Resp: 15914
Ion Ratio Lower Upper
104 100
78 46.0 25.1 65.1





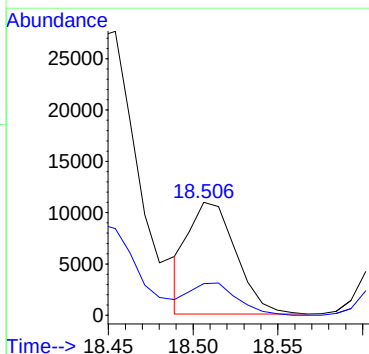
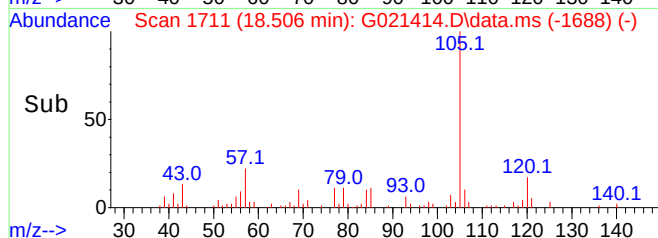
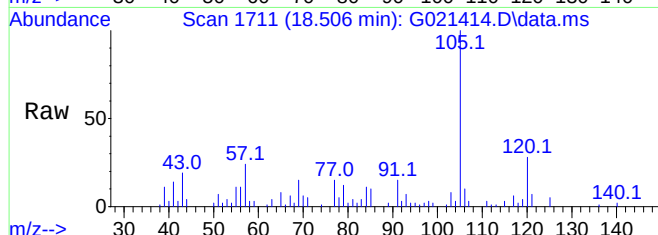
#56
O-XYLENE
Concen: 0.99 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

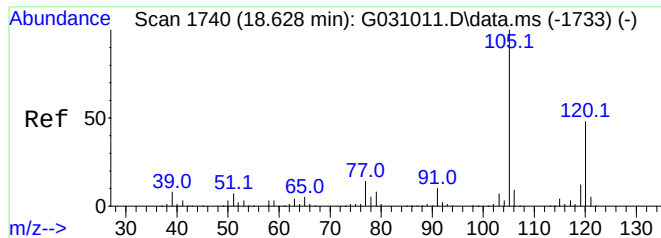
Tgt Ion: 91 Resp: 134333
Ion Ratio Lower Upper
91 100
106 49.2 25.5 65.5



#59
4-ETHYLTOLUENE
Concen: 0.12 PPBV
RT: 18.506 min Scan# 1711
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

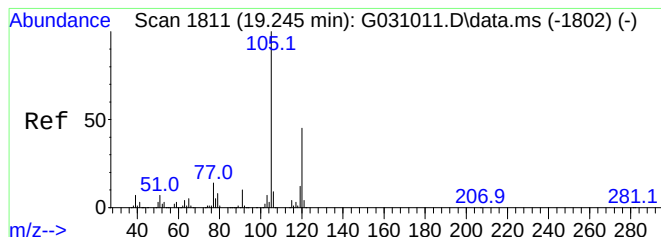
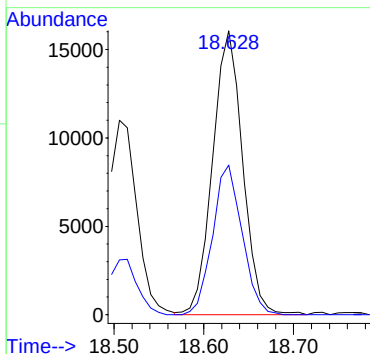
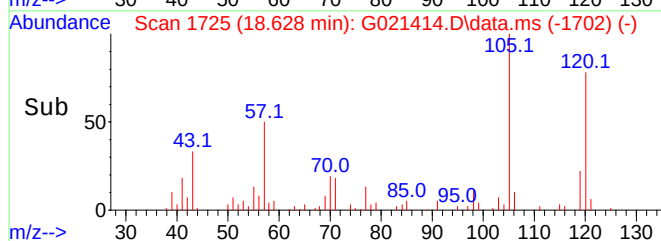
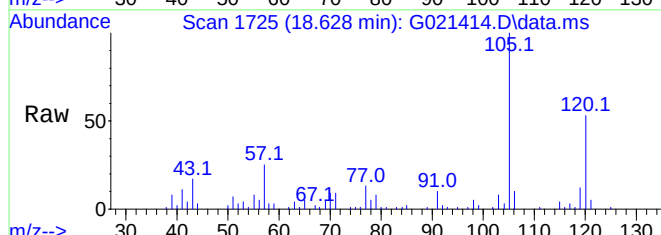
Tgt Ion: 105 Resp: 21202
Ion Ratio Lower Upper
105 100
120 29.4 8.6 48.6





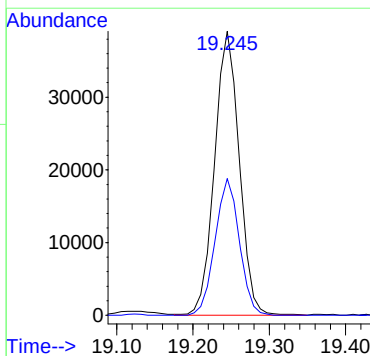
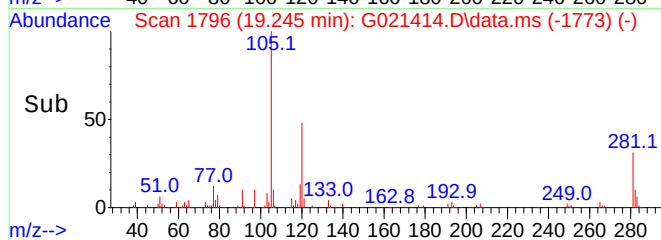
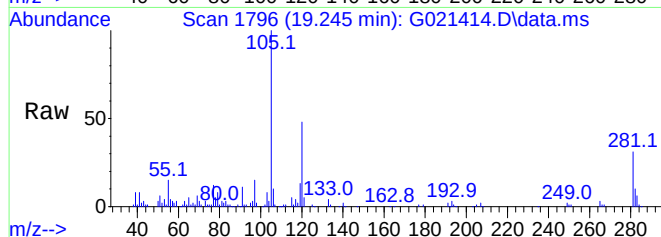
#60
1,3,5-TRIMETHYLBENZENE
Concen: 0.25 PPBV
RT: 18.628 min Scan# 1725
Delta R.T. -0.001 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

Tgt Ion:105 Resp: 37264
Ion Ratio Lower Upper
105 100
120 51.7 28.3 68.3



#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.59 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.000 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

Tgt Ion:105 Resp: 87977
Ion Ratio Lower Upper
105 100
120 47.2 24.8 64.8



Data File : C:\msdchem\1\data\G021412\G021414.D
 Acq On : 14 Feb 2012 8:48 pm
 Sample : 12B0323-06 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:13:47 2012

Vial: 6
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	992325	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	182655	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	670999	9.71	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	121.38%
Target Compounds						
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	104977	0.739	PPBV	85
6) METHYLCYCLOHEXANE	12.435	83	38607	0.660	PPBV	89
8) 1,3-DICHLOROPROPANE	13.379	76	4322	0.071	PPBV #	1
11) CUMENE	17.576	105	8749	0.059	PPBV	96
12) PROPYLBENZENE	18.289	120	4465	0.111	PPBV #	89
15) P-CYMENE	19.931	119	59806	0.404	PPBV	96
16) INDANE	20.227	117	13843	0.122	PPBV	98
18) BUTYLBENZENE	20.731	91	9768	0.066	PPBV	85

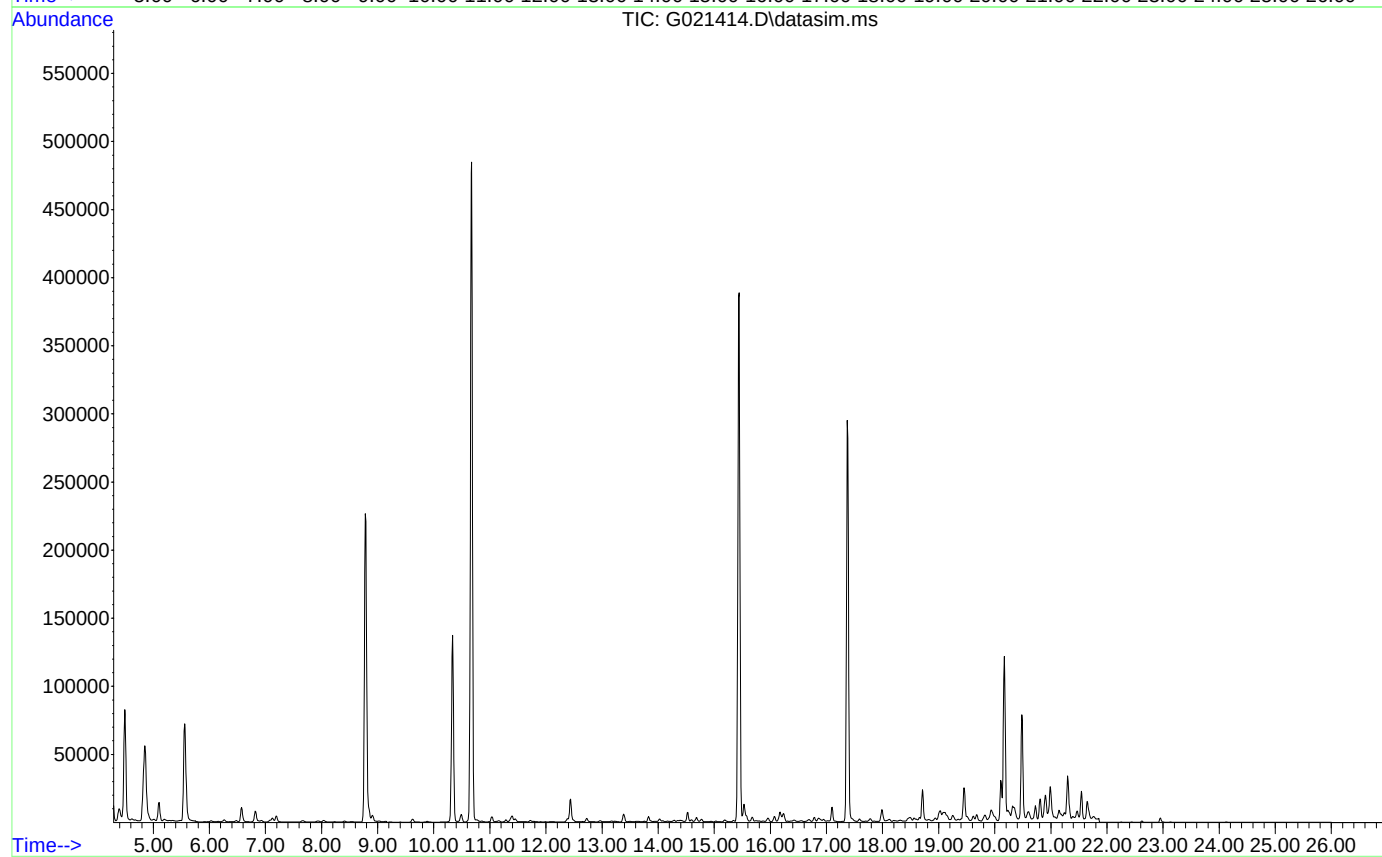
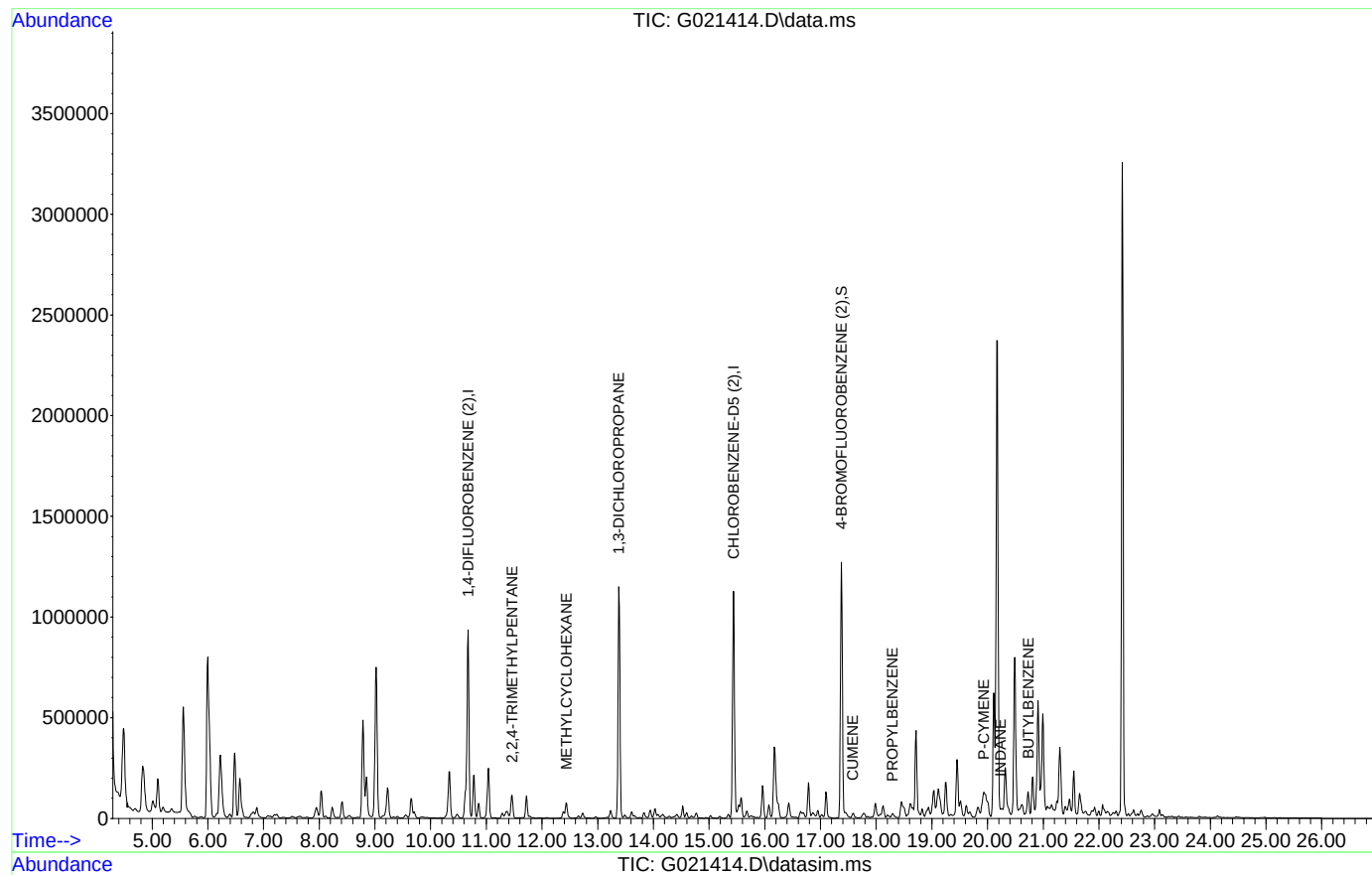
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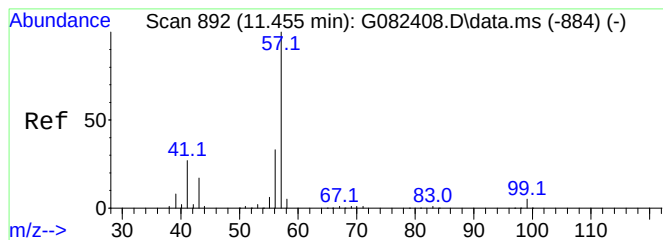
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Acq On : 14 Feb 2012 8:48 pm
Sample : 12B0323-06 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:13:47 2012

Vial: 6
Operator: WSD
Inst : SYSG
Multiplr: 1.00

221

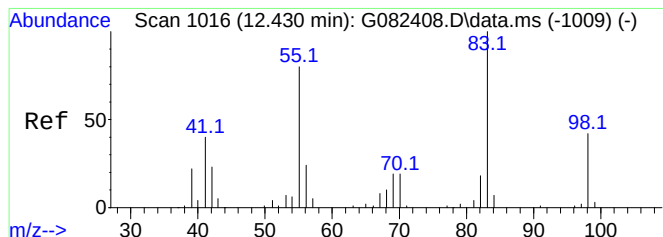
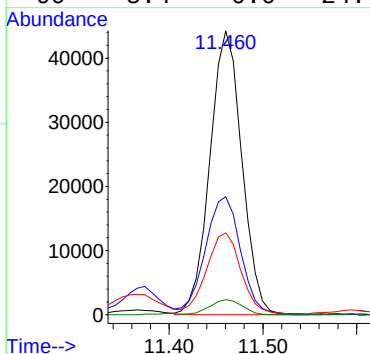
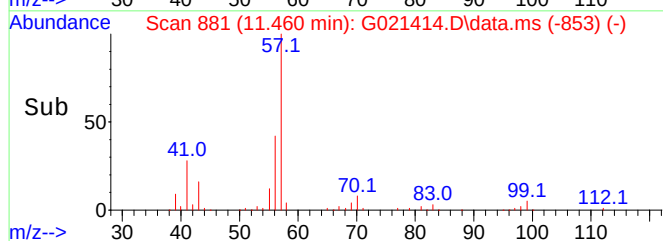
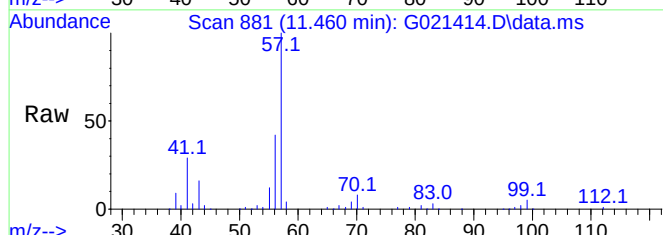
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





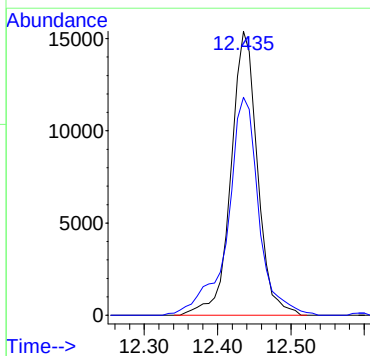
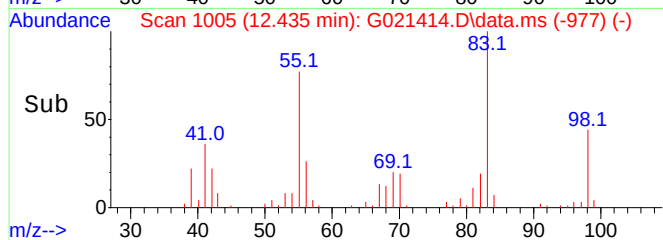
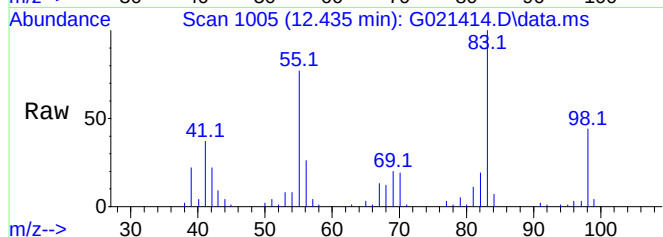
#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.74 PPBV
RT: 11.460 min Scan# 881
Delta R.T. 0.021 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

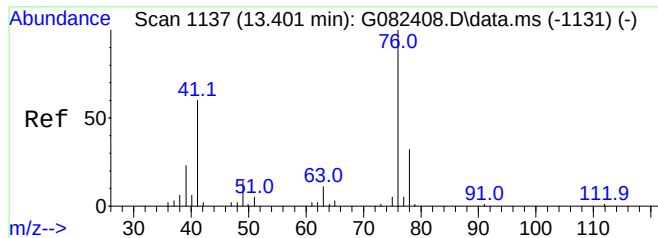
Tgt Ion: 57 Resp: 104977
Ion Ratio Lower Upper
57 100
56 46.0 13.7 53.7
41 30.4 5.8 45.8
99 5.4 0.0 24.7



#6
METHYLCYCLOHEXANE
Concen: 0.66 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.021 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

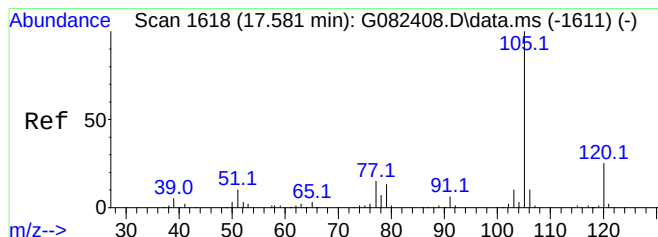
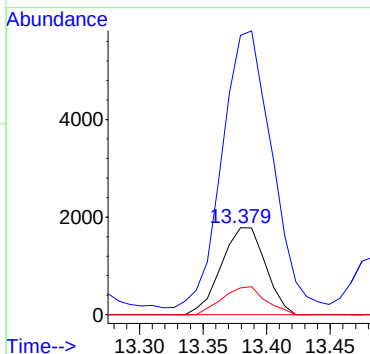
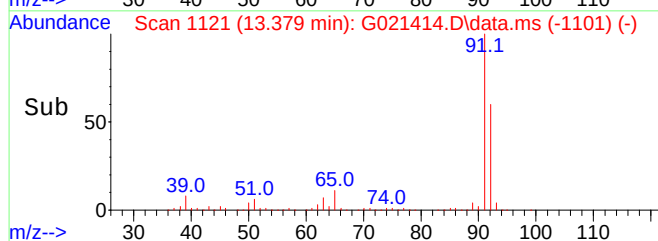
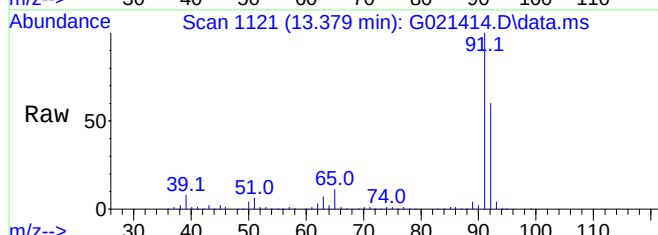
Tgt Ion: 83 Resp: 38607
Ion Ratio Lower Upper
83 100
55 90.0 60.5 100.5





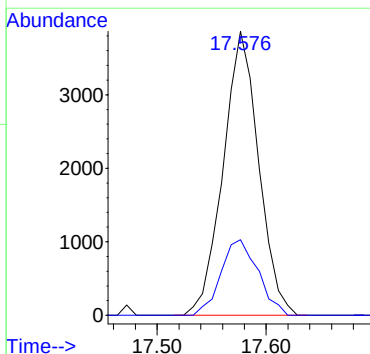
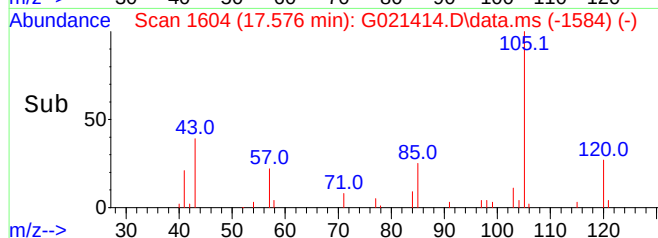
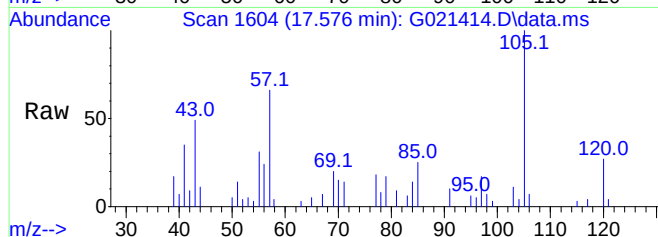
#8
1,3-DICHLOROPROPANE
Concen: 0.07 PPBV
RT: 13.379 min Scan# 1121
Delta R.T. -0.013 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

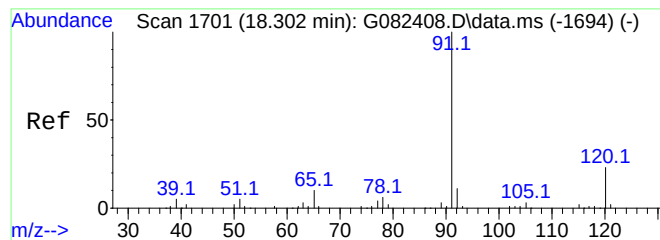
Tgt Ion: 76 Resp: 4322
Ion Ratio Lower Upper
76 100
41 355.4 51.0 76.4#
78 31.5 25.6 38.4



#11
CUMENE
Concen: 0.06 PPBV
RT: 17.576 min Scan# 1604
Delta R.T. -0.022 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

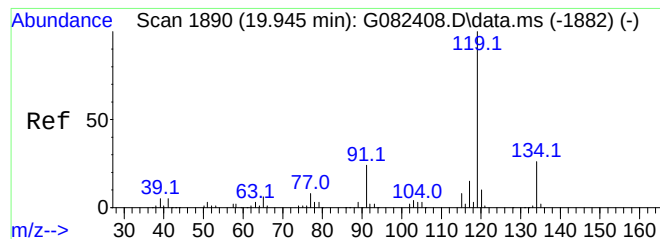
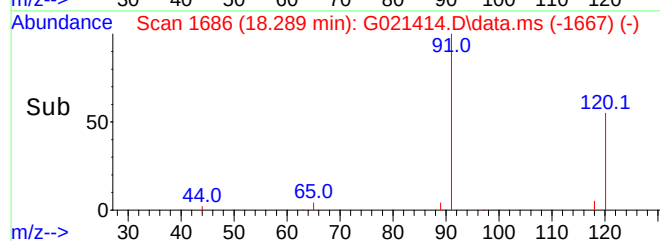
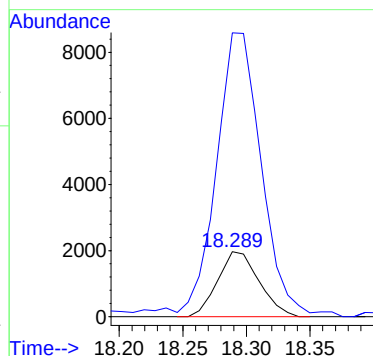
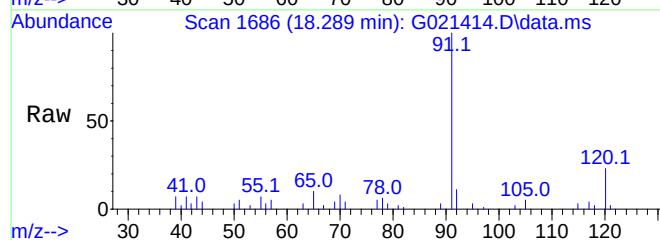
Tgt Ion: 105 Resp: 8749
Ion Ratio Lower Upper
105 100
120 27.8 6.0 46.0





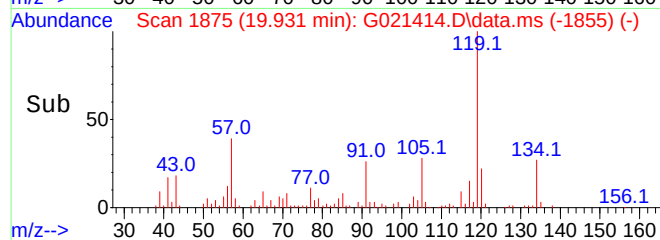
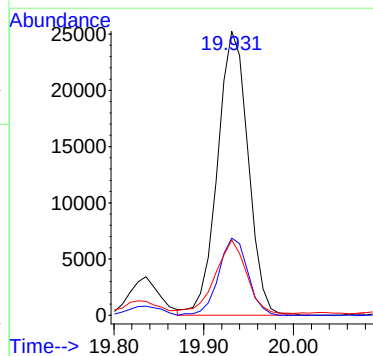
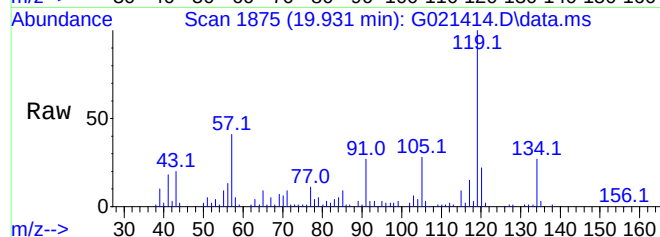
#12
 PROPYLBENZENE
 Concen: 0.11 PPBV
 RT: 18.289 min Scan# 1686
 Delta R.T. -0.031 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

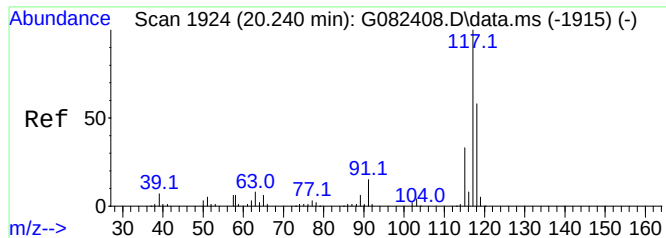
Tgt Ion:120 Resp: 4465
 Ion Ratio Lower Upper
 120 100
 91 482.4 434.5 474.5#



#15
 P-CYMENE
 Concen: 0.40 PPBV
 RT: 19.931 min Scan# 1875
 Delta R.T. -0.022 min
 Lab File: G021414.D
 Acq: 14 Feb 2012 8:48 pm

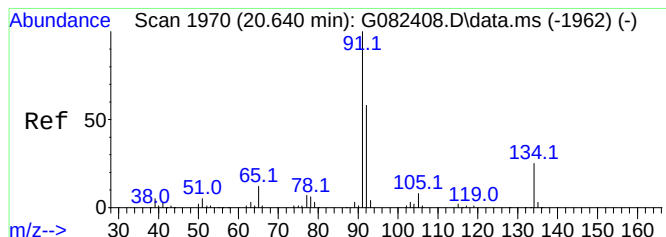
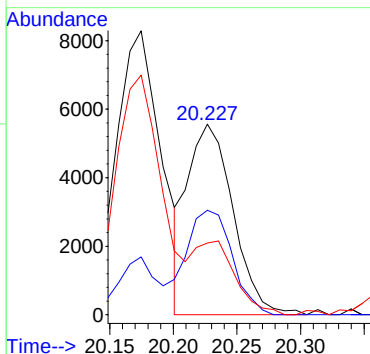
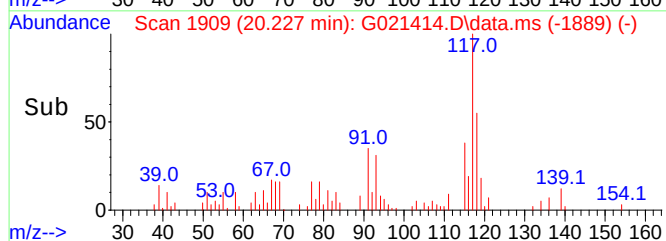
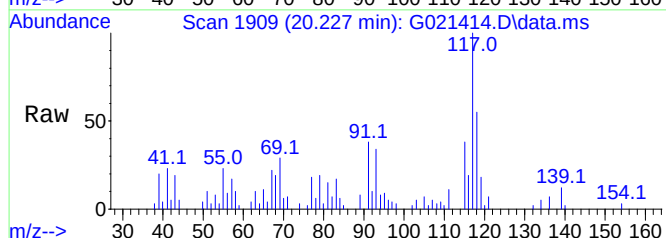
Tgt Ion:119 Resp: 59806
 Ion Ratio Lower Upper
 119 100
 134 25.9 5.8 45.8
 91 26.6 2.8 42.8





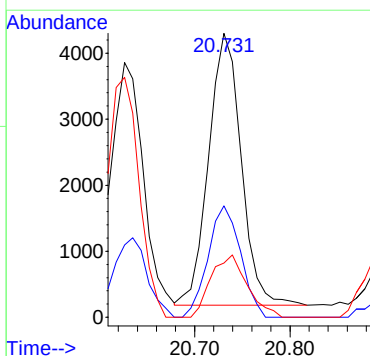
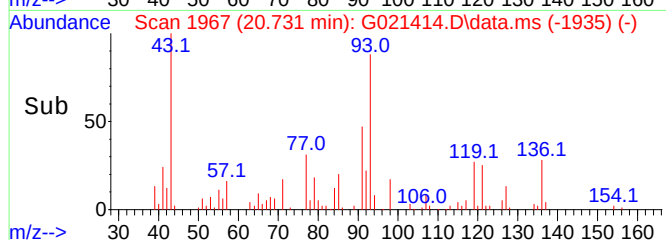
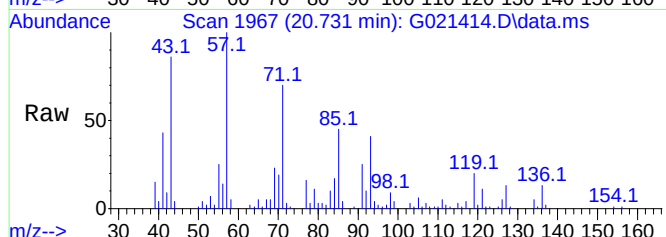
#16
INDANE
Concen: 0.12 PPBV
RT: 20.227 min Scan# 1909
Delta R.T. -0.022 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

Tgt Ion: 117 Resp: 13843
Ion Ratio Lower Upper
117 100
118 56.6 36.4 76.4
115 34.8 11.9 51.9



#18
BUTYLBENZENE
Concen: 0.07 PPBV
RT: 20.731 min Scan# 1967
Delta R.T. 0.082 min
Lab File: G021414.D
Acq: 14 Feb 2012 8:48 pm

Tgt Ion: 91 Resp: 9768
Ion Ratio Lower Upper
91 100
92 40.7 35.2 75.2
134 25.5 3.9 43.9



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS04

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-07 File ID: G021217.D
 Sampled: 02/08/12 15:11 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 12:12
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform		0.036	0.10	
74-87-3	Chloromethane		0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.59	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS04

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-07 File ID: G021217.D
 Sampled: 02/08/12 15:11 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 12:12
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol		0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	0.83	0.030	0.10	
108-88-3	Toluene		0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane		0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	0.74	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-SS04

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-07	File ID:	G021217.D		
Sampled:	02/08/12 15:11	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 12:12		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021217.D
 Acq On : 13 Feb 2012 12:12 pm
 Sample : 12B0323-07 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 13:39:08 2012

Vial: 9
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	302321	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	913958	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	836365	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	456517	8.02	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	100.25%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.536	85	17386	0.293	PPBV	Qvalue 98
10) ACROLEIN	5.911	56	921	0.130	PPBV	84
11) ACETONE	6.042	43	58407	1.987	PPBV	93
12) TRICHLOROFLUOROMETHANE	6.163	101	17410	0.369	PPBV	99
13) ETHANOL	5.608	45	4145	0.670	PPBV	81
15) METHYLENE CHLORIDE	6.832	49	9979	0.303	PPBV	77
21) IPA	6.285	45	4930	0.159	PPBV	# 43
22) 2-BUTANONE(MEK)	8.291	43	9224	0.155	PPBV	94
25) HEXANE	8.864	41	6739	0.218	PPBV	93
50) TETRACHLOROETHENE	14.683	166	22578	0.416	PPBV	95

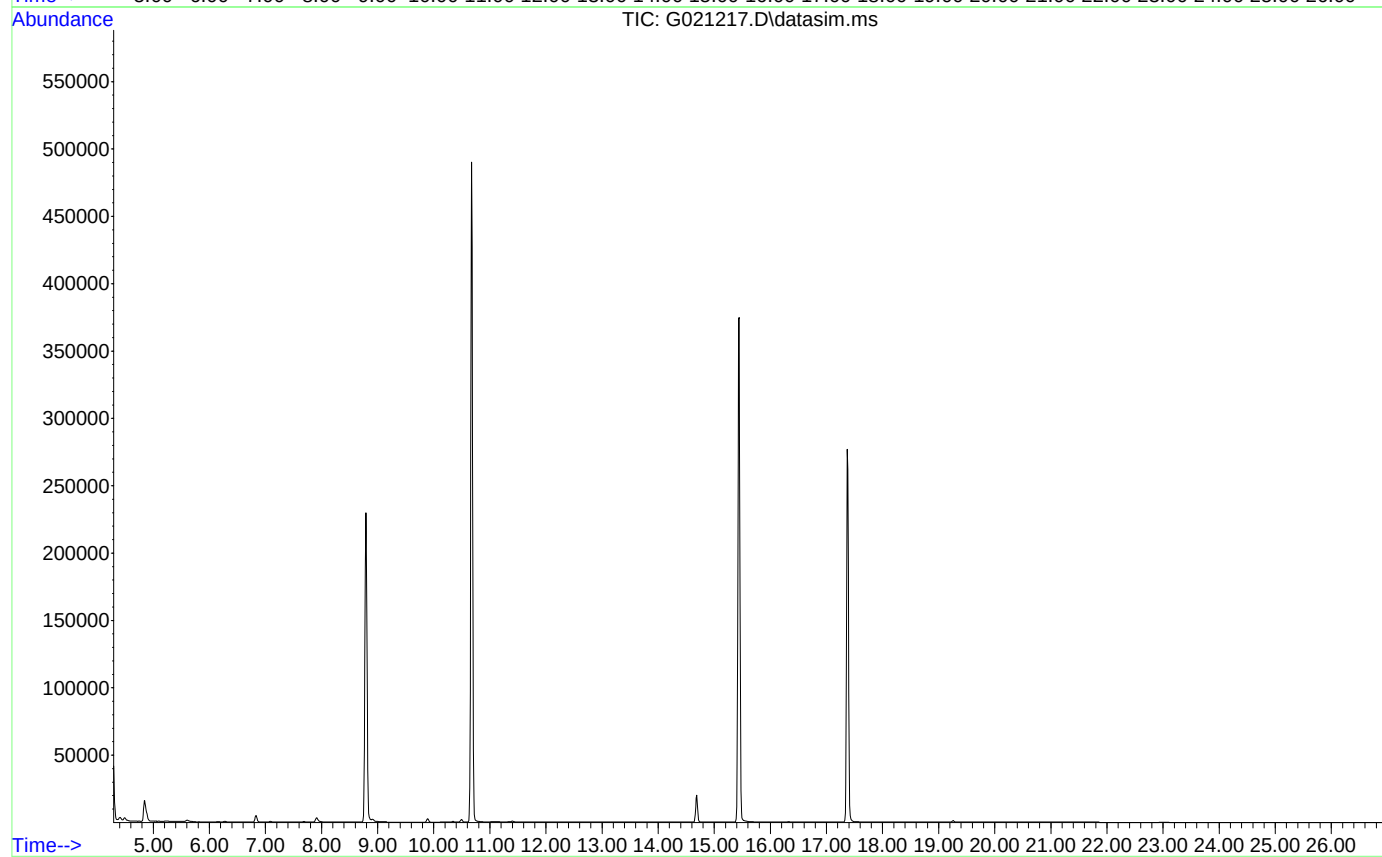
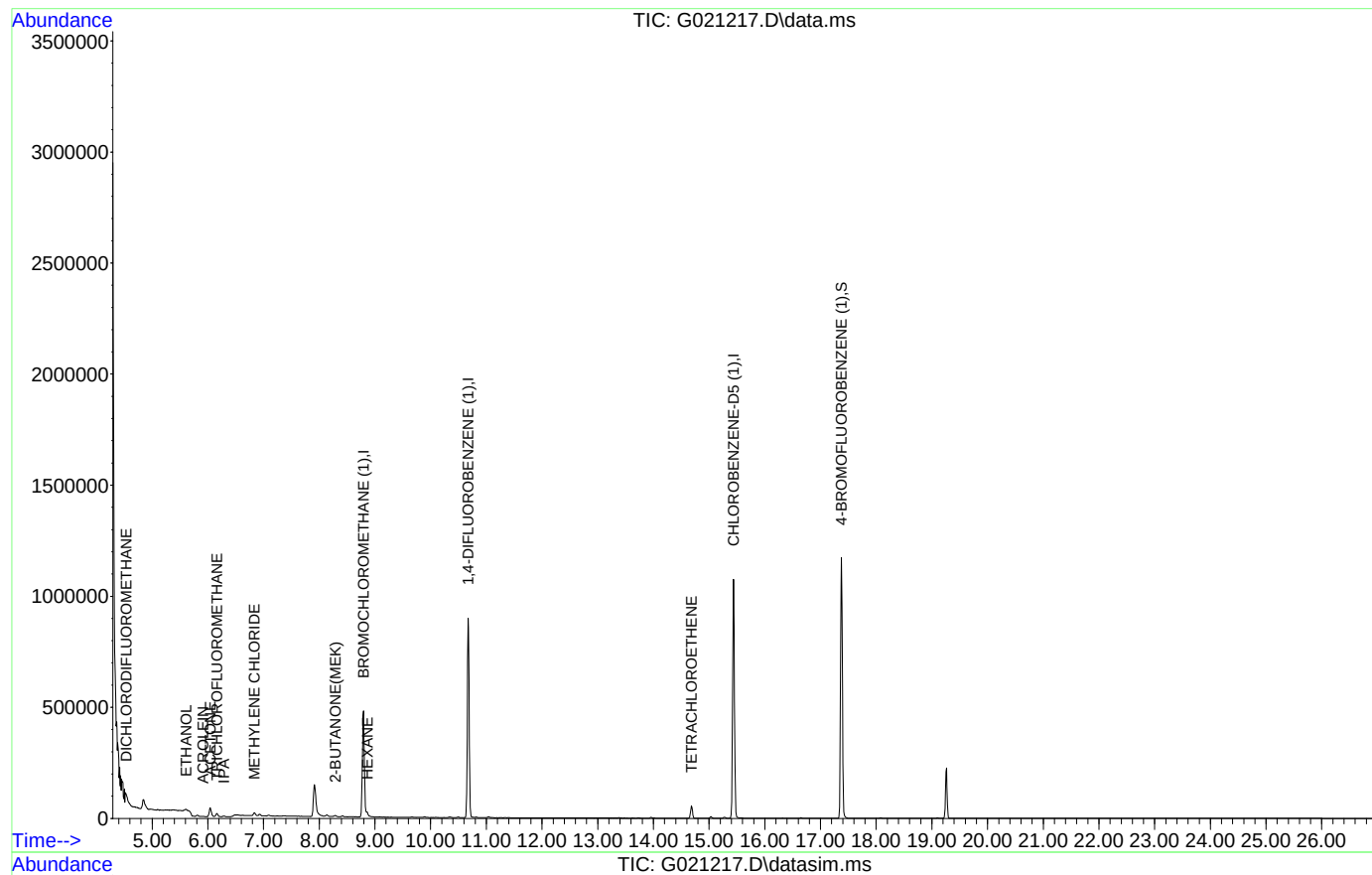
(#) = qualifier out of range (m) = manual integration (+) = signals summed

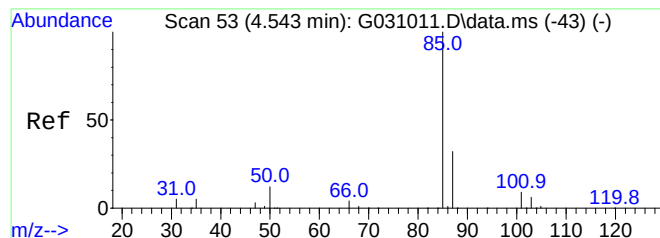
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Acq On : 13 Feb 2012 12:12 pm
Sample : 12B0323-07 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 13:39:08 2012

Vial: 9
Operator: TPH
Inst : SYSG
Multiplr: 1.00

230

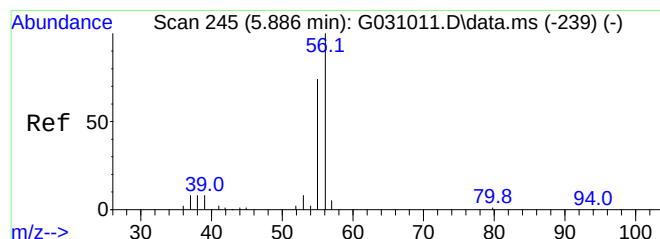
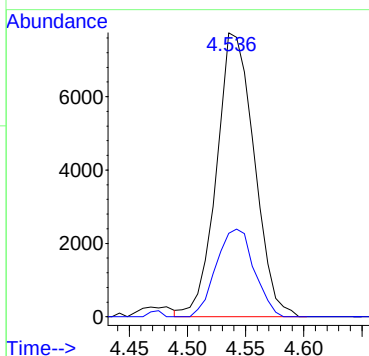
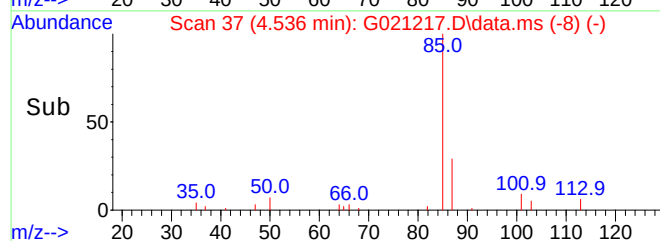
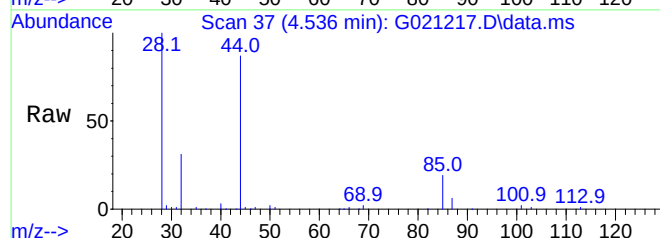
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Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





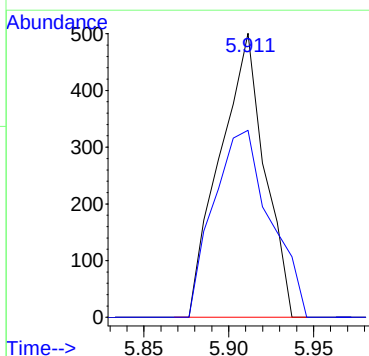
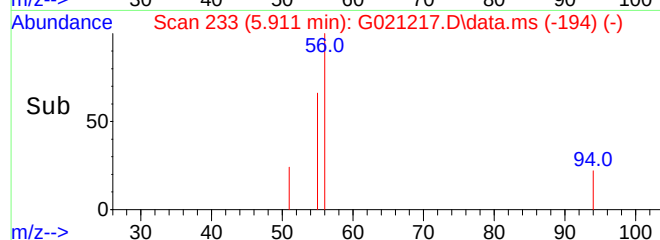
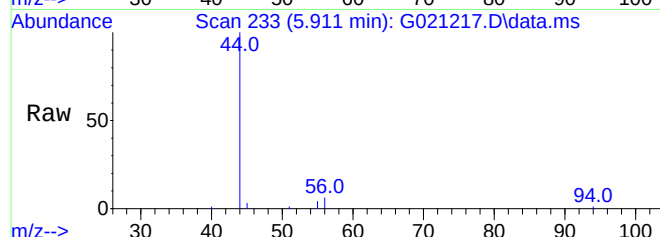
#3
DICHLORODIFLUOROMETHANE
Concen: 0.29 PPBV
RT: 4.536 min Scan# 37
Delta R.T. -0.007 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

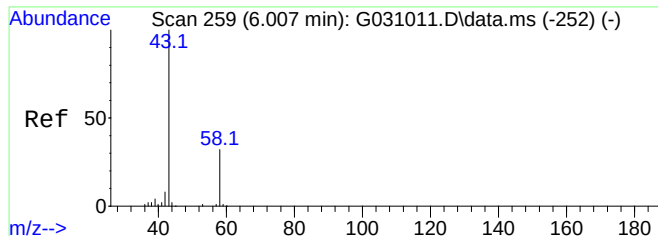
Tgt Ion: 85 Resp: 17386
Ion Ratio Lower Upper
85 100
87 31.1 12.1 52.1



#10
ACROLEIN
Concen: 0.13 PPBV
RT: 5.911 min Scan# 233
Delta R.T. 0.026 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

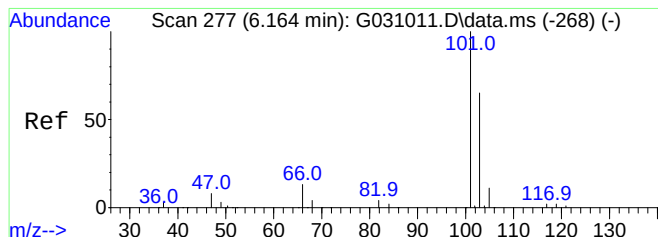
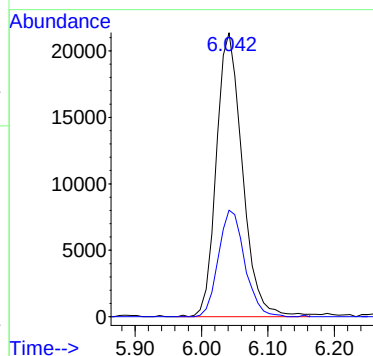
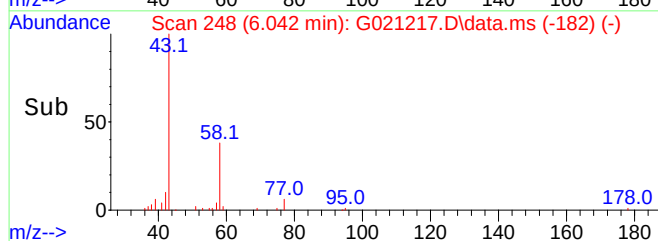
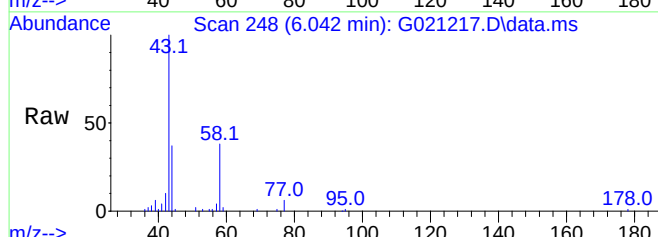
Tgt Ion: 56 Resp: 921
Ion Ratio Lower Upper
56 100
55 83.6 56.1 84.1





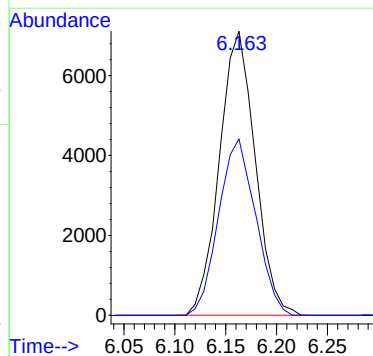
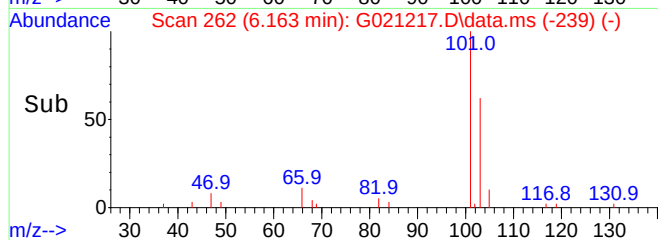
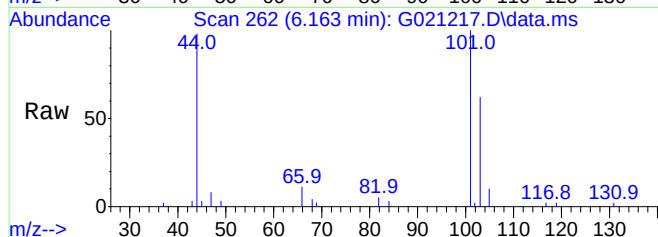
#11
ACETONE
Concen: 1.99 PPBV
RT: 6.042 min Scan# 248
Delta R.T. 0.035 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

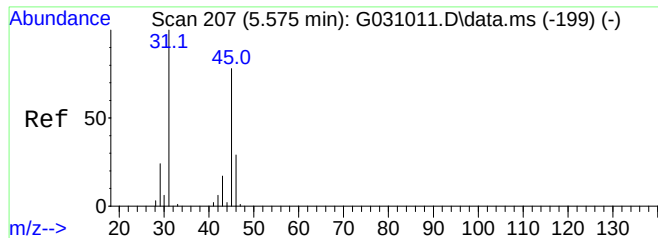
Tgt Ion: 43 Resp: 58407
Ion Ratio Lower Upper
43 100
58 37.7 13.9 53.9



#12
TRICHLOROFLUOROMETHANE
Concen: 0.37 PPBV
RT: 6.163 min Scan# 262
Delta R.T. -0.000 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

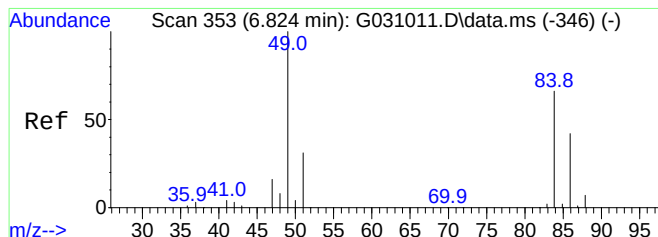
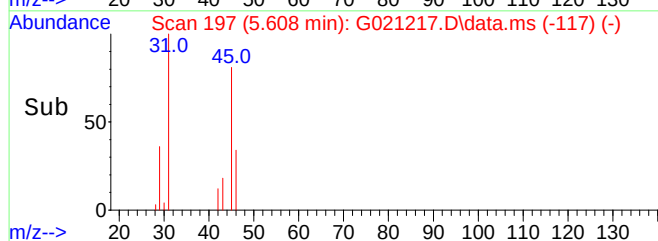
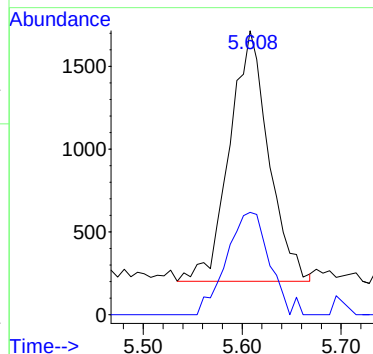
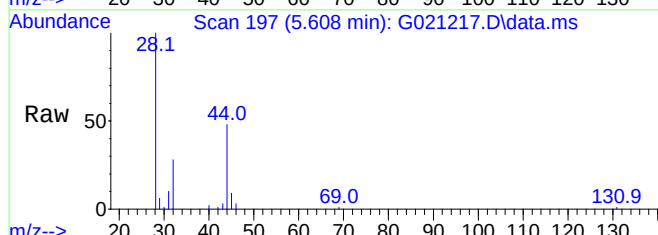
Tgt Ion: 101 Resp: 17410
Ion Ratio Lower Upper
101 100
103 64.3 44.8 84.8





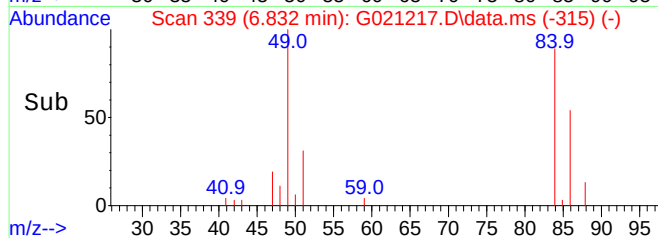
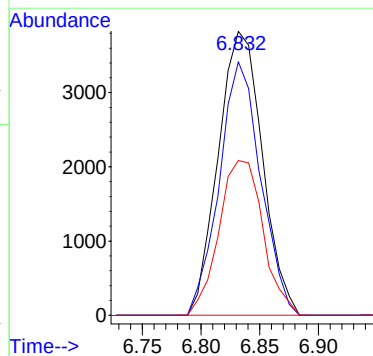
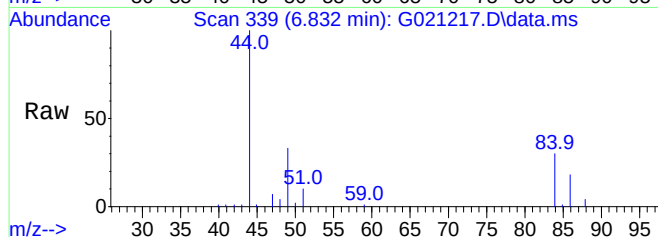
#13
ETHANOL
Concen: 0.67 PPBV
RT: 5.608 min Scan# 197
Delta R.T. 0.034 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

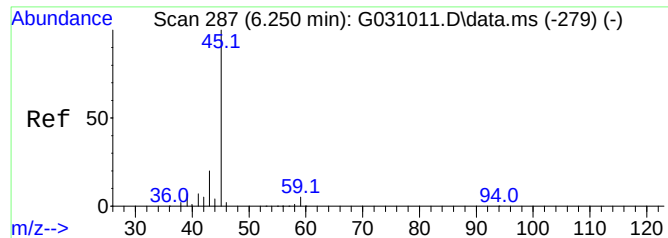
Tgt Ion: 45 Resp: 4145
Ion Ratio Lower Upper
45 100
46 45.1 14.0 54.0



#15
METHYLENE CHLORIDE
Concen: 0.30 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

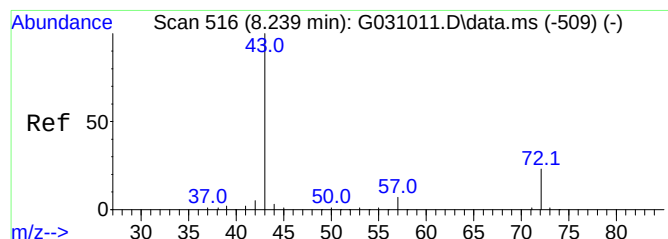
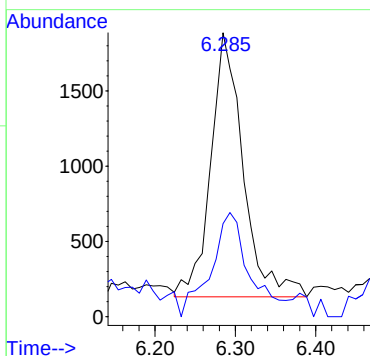
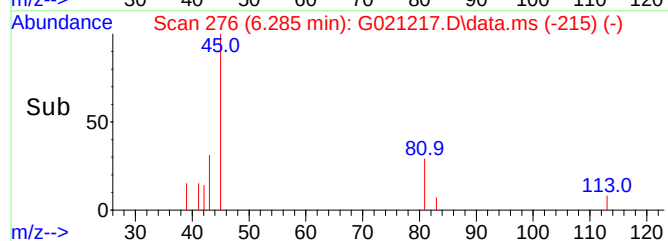
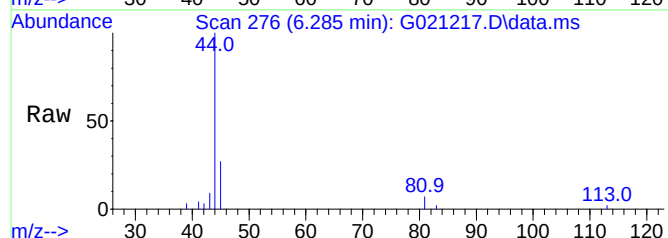
Tgt Ion: 49 Resp: 9979
Ion Ratio Lower Upper
49 100
84 83.9 45.2 85.2
86 54.6 21.4 61.4





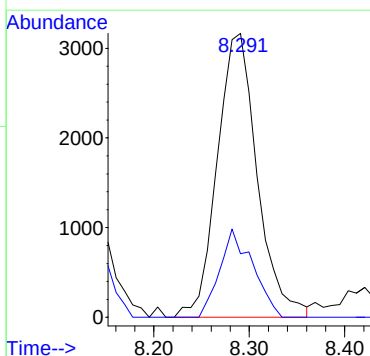
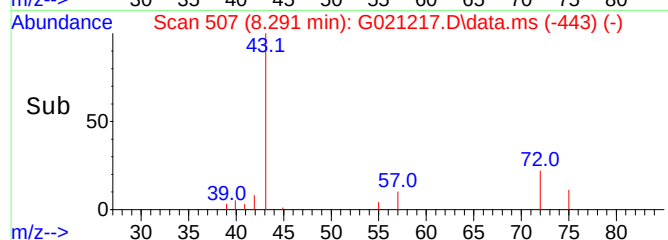
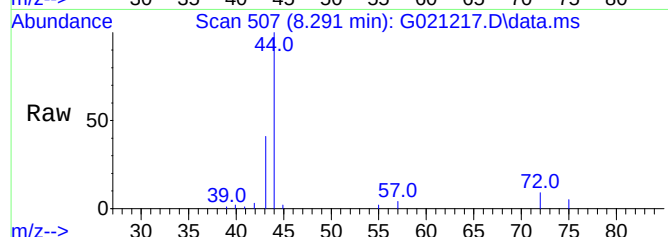
#21
IPA
Concen: 0.16 PPBV
RT: 6.285 min Scan# 276
Delta R.T. 0.035 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

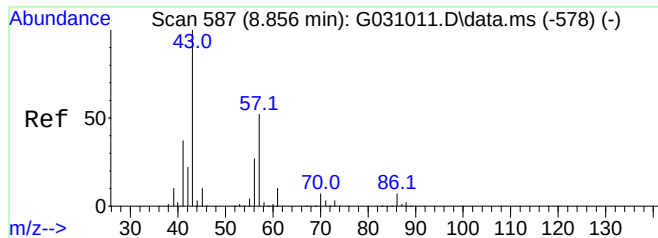
Tgt Ion: 45 Resp: 4930
Ion Ratio Lower Upper
45 100
43 47.1 0.6 40.6#



#22
2-BUTANONE(MEK)
Concen: 0.15 PPBV
RT: 8.291 min Scan# 507
Delta R.T. 0.052 min
Lab File: G021217.D
Acq: 13 Feb 2012 12:12 pm

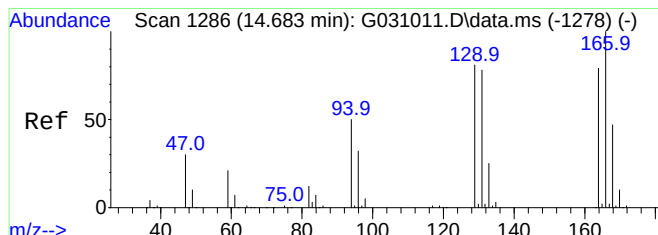
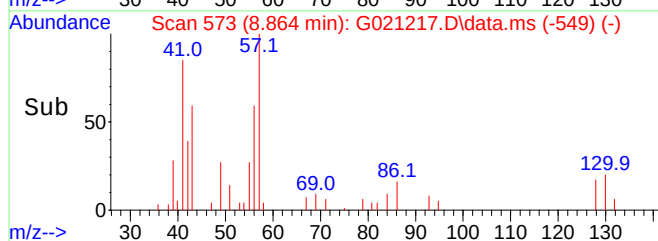
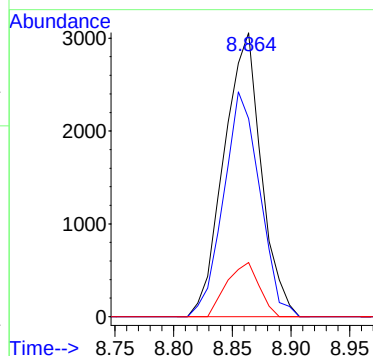
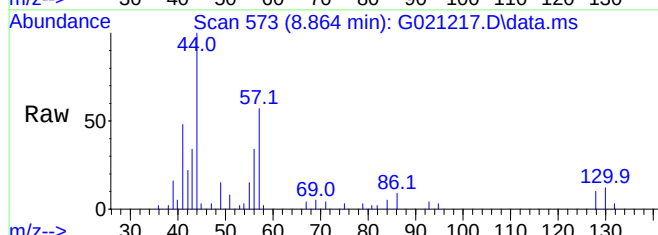
Tgt Ion: 43 Resp: 9224
Ion Ratio Lower Upper
43 100
72 25.6 2.6 42.6





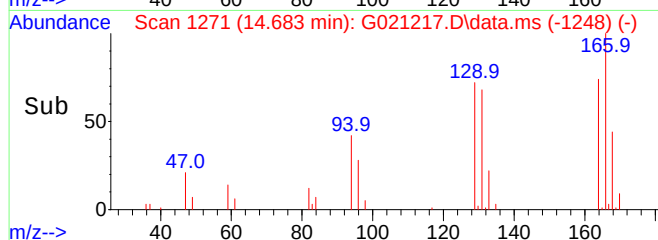
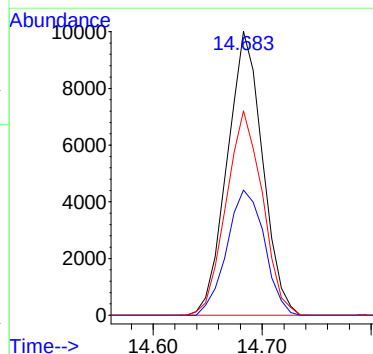
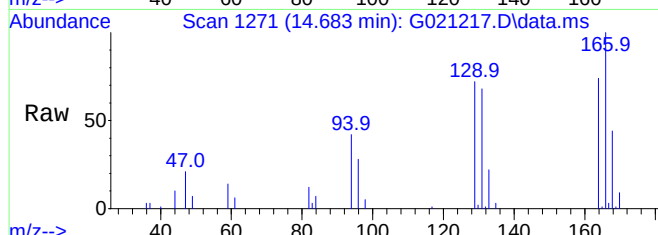
#25
 HEXANE
 Concen: 0.22 PPBV
 RT: 8.864 min Scan# 573
 Delta R.T. 0.008 min
 Lab File: G021217.D
 Acq: 13 Feb 2012 12:12 pm

Tgt Ion: 41 Resp: 6739
 Ion Ratio Lower Upper
 41 100
 56 76.9 50.8 90.8
 86 16.5 9.6 29.6



#50
 TETRACHLOROETHENE
 Concen: 0.42 PPBV
 RT: 14.683 min Scan# 1271
 Delta R.T. -0.000 min
 Lab File: G021217.D
 Acq: 13 Feb 2012 12:12 pm

Tgt Ion: 166 Resp: 22578
 Ion Ratio Lower Upper
 166 100
 168 46.9 27.0 67.0
 129 73.9 60.6 100.6



Data File : C:\msdchem\1\data\G021212\G021217.D
Acq On : 13 Feb 2012 12:12 pm
Sample : 12B0323-07 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:58:30 2012

Vial: 9
Operator: TPH
Inst : SYSG
Multiplr: 1.00

236

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	913591	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	167957	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	600136	9.44	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	118.00%

Target Compounds	Qvalue

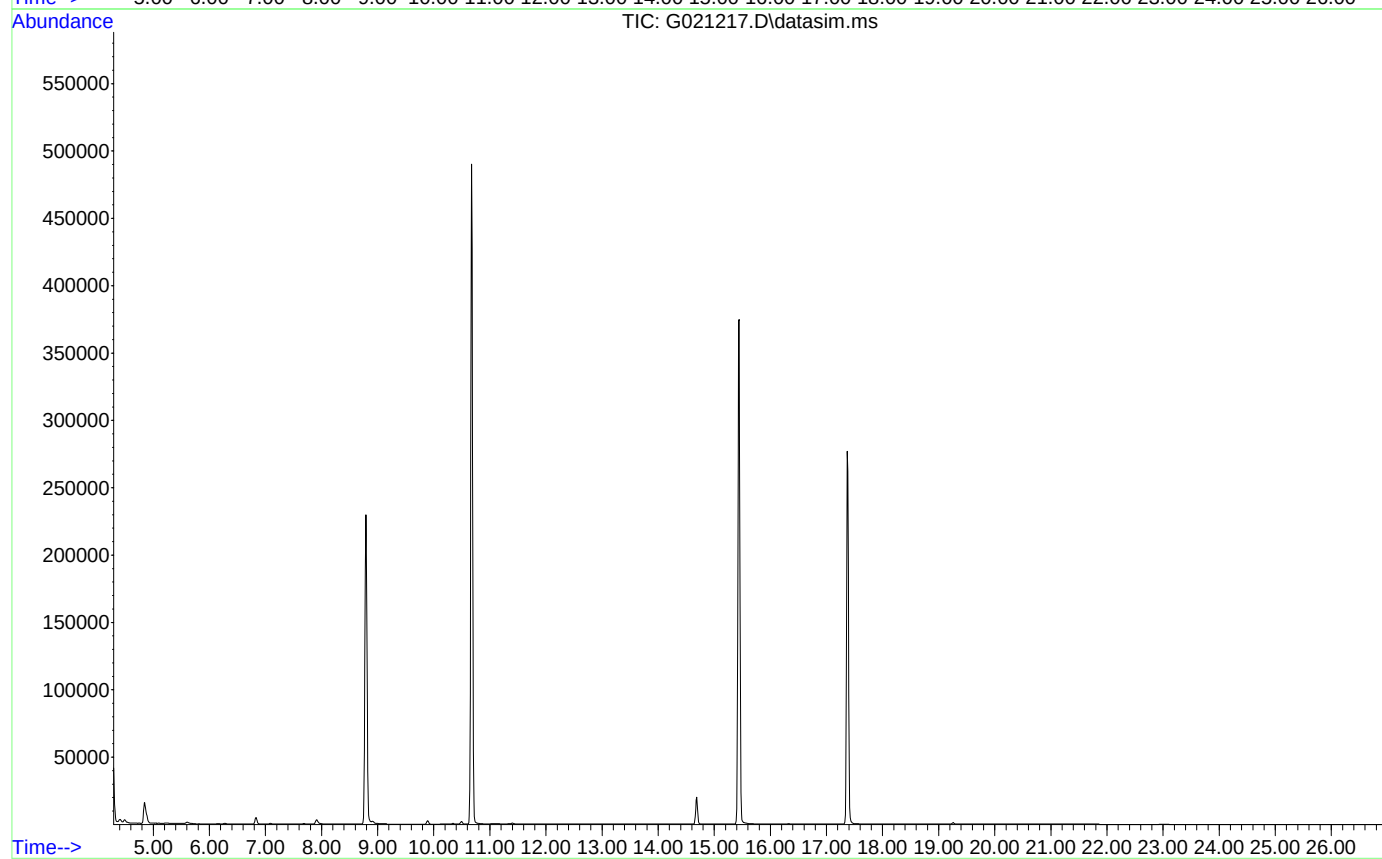
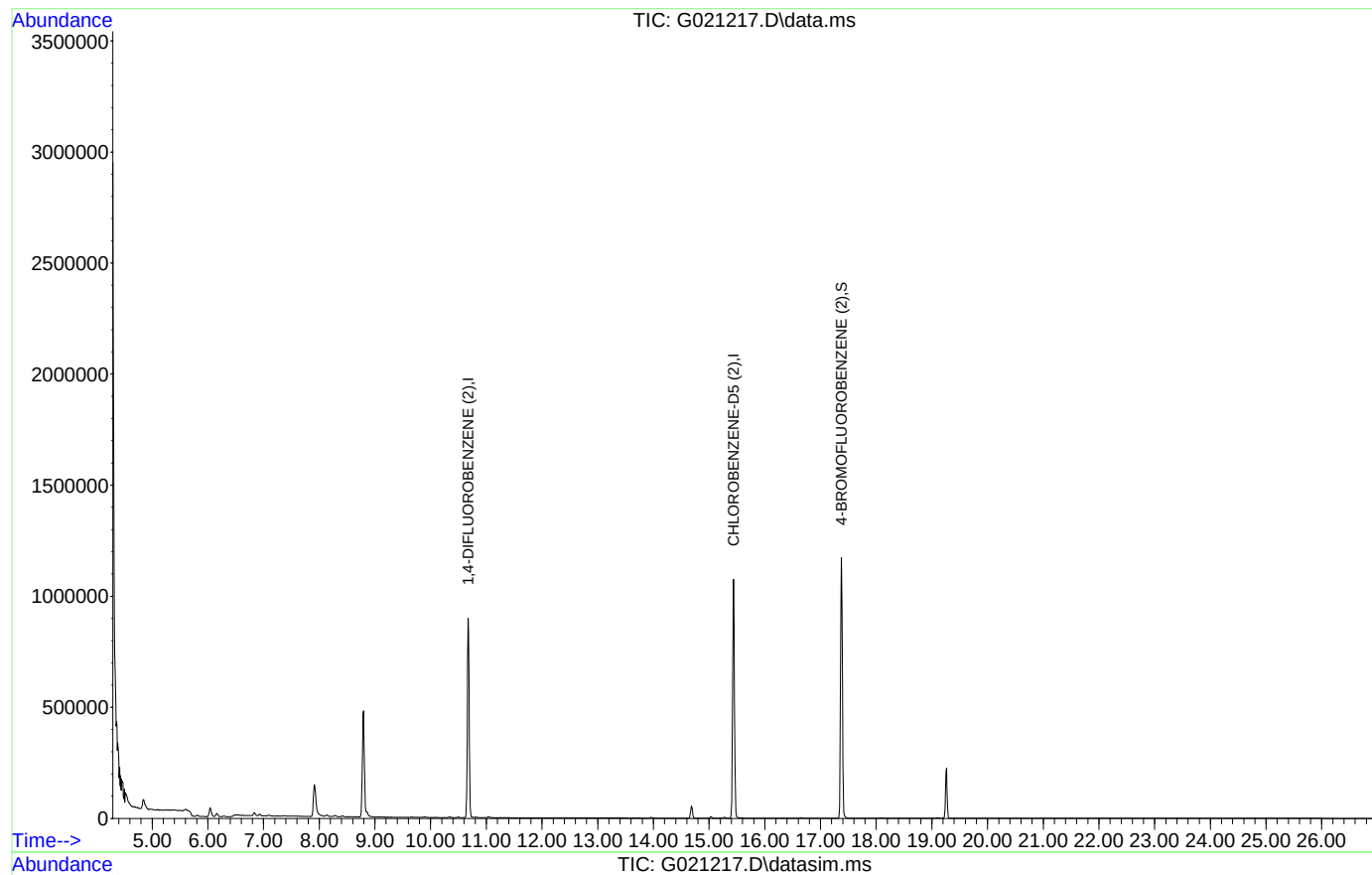
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021217.D
Acq On : 13 Feb 2012 12:12 pm
Sample : 12B0323-07 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:58:30 2012

Vial: 9
Operator: TPH
Inst : SYSG
Multiplr: 1.00

237

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA04

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-08 File ID: G021415.D
 Sampled: 02/08/12 15:11 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 21:33
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	1.9	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.072	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform	0.055	0.013	0.035	
74-87-3	Chloromethane	0.64	0.018	0.035	
110-82-7	Cyclohexane	0.28	0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.53	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane	0.049	0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA04

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-08 File ID: G021415.D
 Sampled: 02/08/12 15:11 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 21:33
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	13	0.17	1.4	
100-41-4	Ethylbenzene	0.66	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.95	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.095	0.011	0.035	
100-42-5	Styrene	0.47	0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene		0.011	0.035	
108-88-3	Toluene	5.9	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene	0.046	0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.30	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.080	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene	0.41	0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene	0.11	0.011	0.035	
540-84-1	2,2,4-Trimethylpentane	0.41	0.030	0.094	V-05
75-01-4	Vinyl Chloride	0.12	0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-IA04

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-08	File ID:	G021415.D		
Sampled:	02/08/12 15:11	Prepared:	02/14/12 10:43	Analyzed:	02/14/12 21:33		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	2.3	0.018	0.070	
95-47-6	o-Xylene	0.76	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021415.D
 Acq On : 14 Feb 2012 9:33 pm
 Sample : 12B0323-08 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:54:52 2012

Vial: 7
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	320487	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1019857	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	934098	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	531624	8.36	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.50%
Target Compounds						
						Qvalue
2) PROPENE	4.469	41	126888	6.038	PPBV	88
3) DICHLORODIFLUOROMETHANE	4.536	85	47348	0.754	PPBV	100
4) CHLOROMETHANE	4.697	50	16599	0.919	PPBV	99
6) VINYL CHLORIDE	4.911	62	3622	0.169	PPBV	100
10) ACROLEIN	5.877	56	6427	0.855	PPBV	96
11) ACETONE	5.998	43	882867	28.326	PPBV	89
12) TRICHLOROFLUOROMETHANE	6.155	101	21166	0.423	PPBV	98
13) ETHANOL	5.561	45	120380	18.354	PPBV	95
15) METHYLENE CHLORIDE	6.823	49	47298	1.354	PPBV	79
16) FREON 113	7.075	101	6483	0.114	PPBV	90
17) CARBON DISULFIDE	7.110	76	6060	0.068	PPBV	# 64
21) IPA	6.233	45	296916	9.054	PPBV	87
22) 2-BUTANONE(MEK)	8.239	43	62498	0.989	PPBV	86
25) HEXANE	8.847	41	59719	1.822	PPBV	89
26) ETHYL ACETATE	8.847	61	8550	0.766	PPBV	87
27) CHLOROFORM	8.907	83	5022	0.078	PPBV	93
29) 1,2-DICHLOROETHANE	9.616	62	3000	0.070	PPBV	# 94
32) BENZENE	10.330	78	342489	2.708	PPBV	94
33) CARBON TETRACHLORIDE	10.488	117	6151	0.102	PPBV	100
34) CYCLOHEXANE	10.621	84	21145	0.396	PPBV	# 78
37) TRICHLOROETHENE	11.398	95	3333	0.065	PPBV	95
40) HEPTANE	11.720	57	18397	0.484	PPBV	91
41) MIBK	12.380	43	12939	0.136	PPBV	83
46) TOLUENE	13.380	91	1174125	8.345	PPBV	99
52) ETHYLBENZENE	15.960	91	166916	0.940	PPBV	97
53) M/P-XYLENE	16.178	91	454936	3.239	PPBV	95
55) STYRENE	16.638	104	68246	0.666	PPBV	95
56) O-XYLENE	16.786	91	150819	1.079	PPBV	95
59) 4-ETHYLTOLUENE	18.506	105	30331	0.164	PPBV	98
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	24236	0.158	PPBV	94
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	89677	0.590	PPBV	96
67) NAPHTHALENE	22.952	128	46571	0.232	PPBV	96

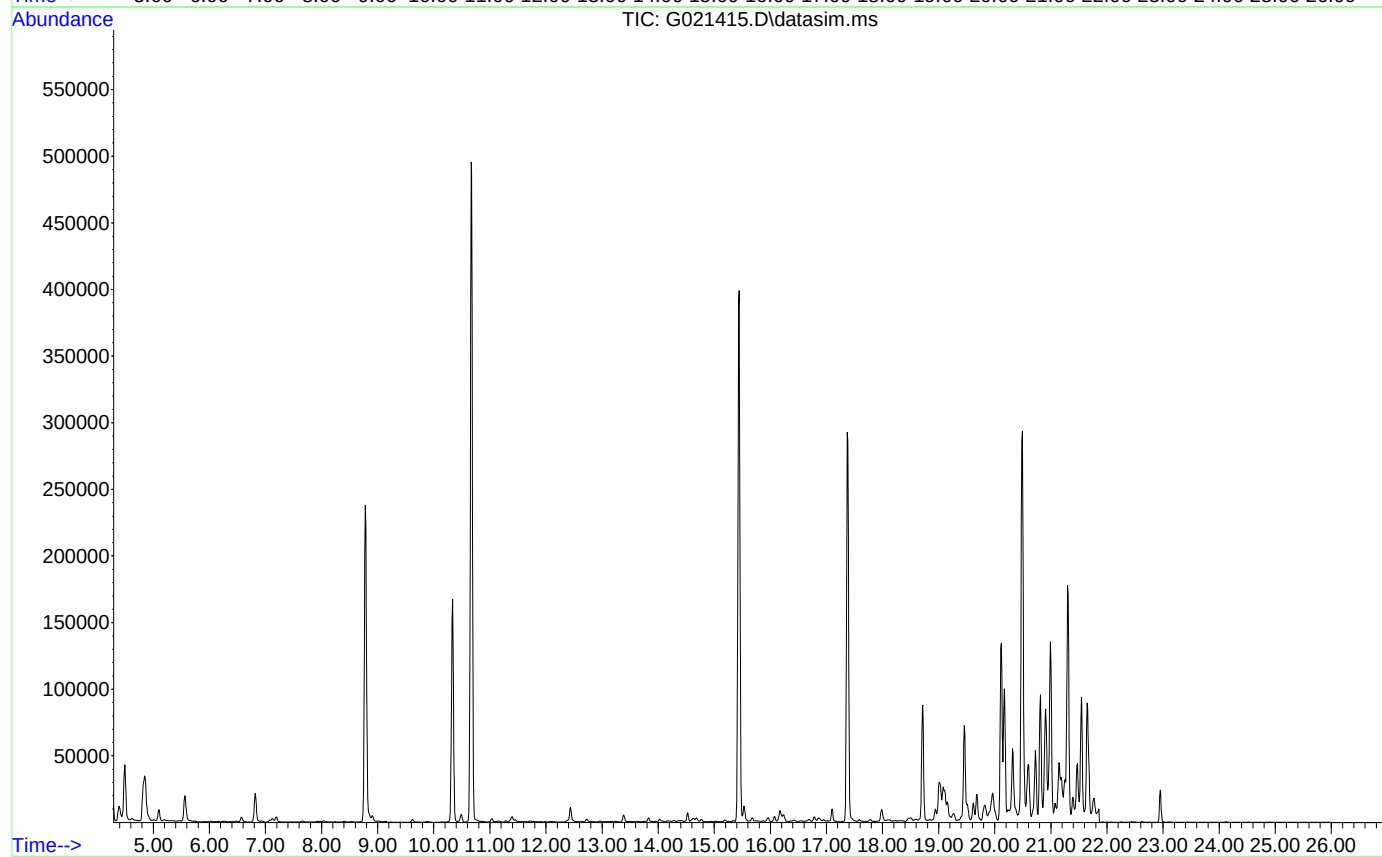
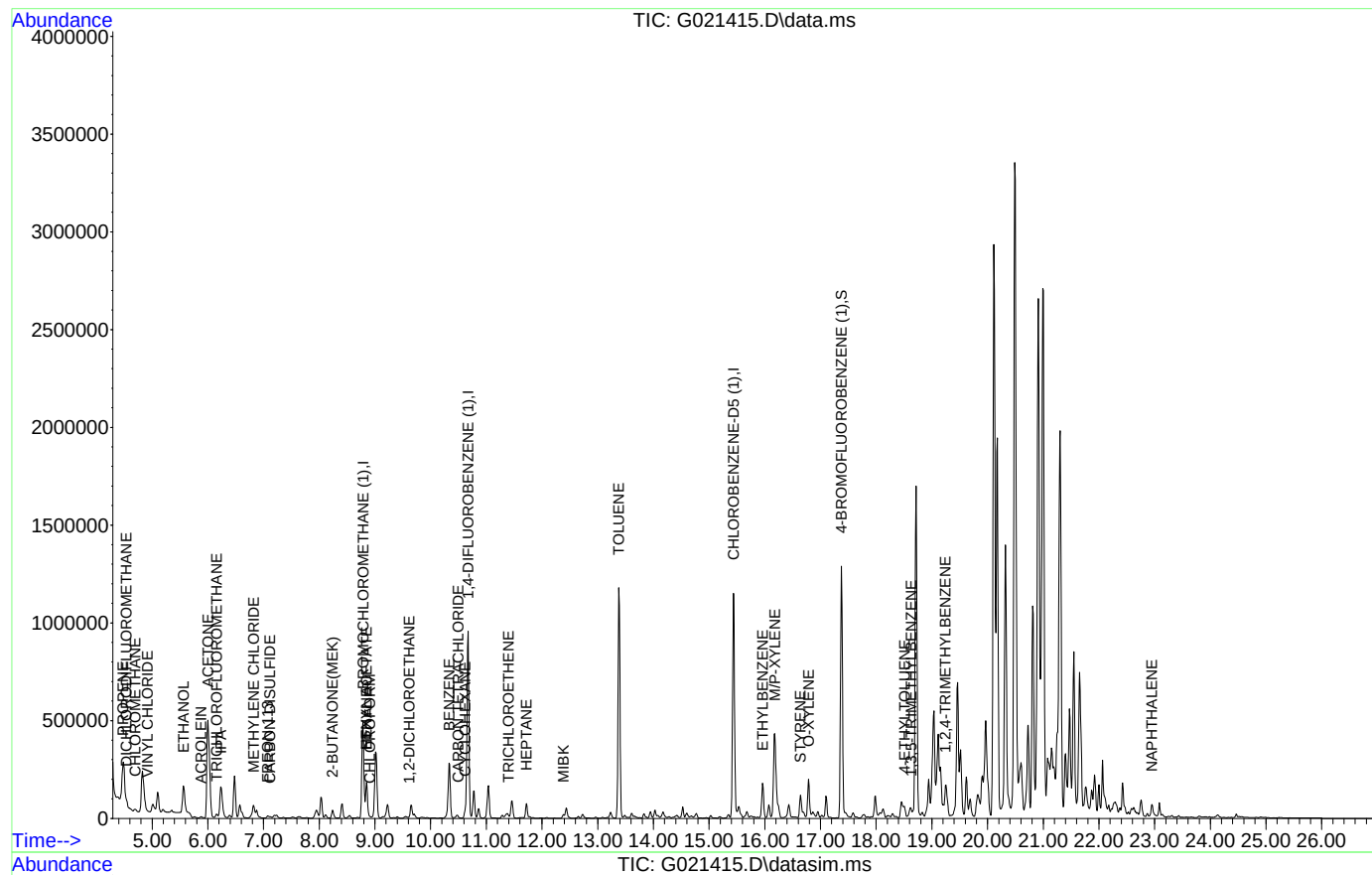
(#) = qualifier out of range (m) = manual integration (+) = signals summed

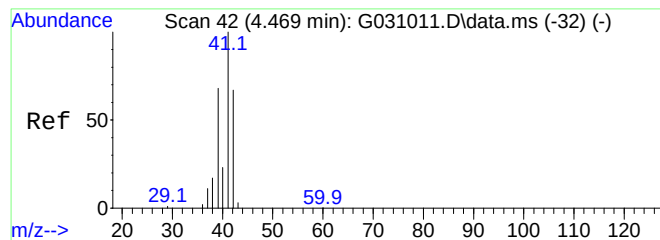
Data File : C:\msdchem\1\data\G021412\G021415.D
Acq On : 14 Feb 2012 9:33 pm
Sample : 12B0323-08 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:54:52 2012

Vial: 7
Operator: WSD
Inst : SYSG
Multiplr: 1.00

242

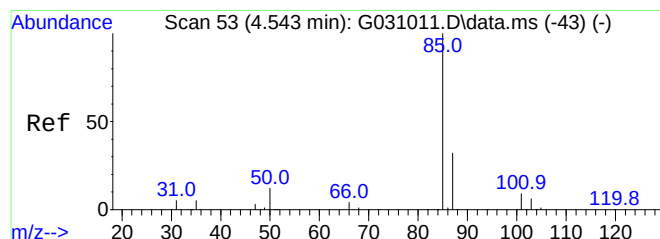
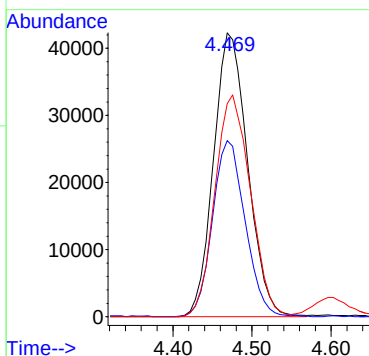
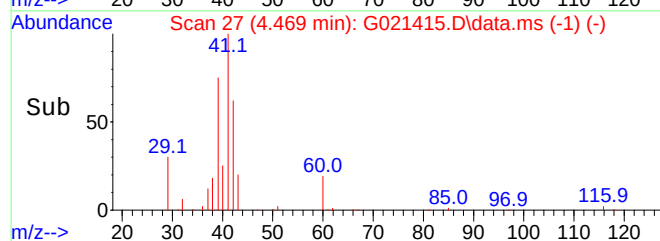
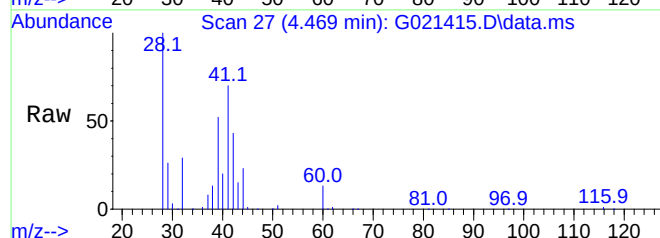
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





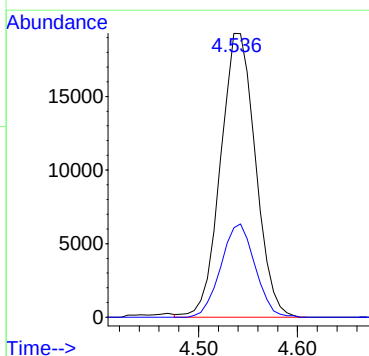
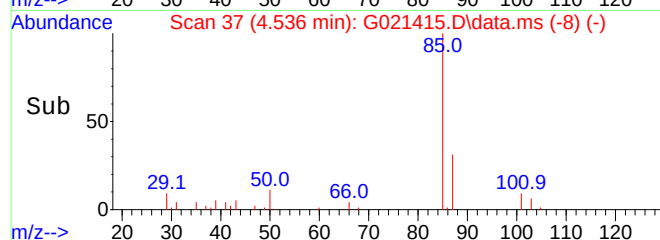
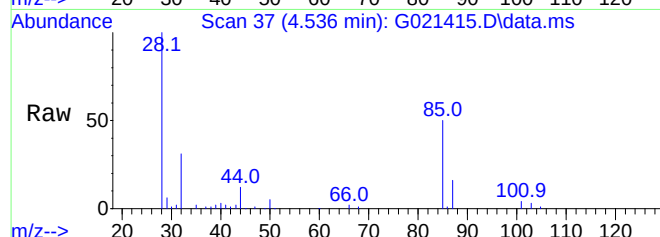
#2
PROPENE
Concen: 6.04 PPBV
RT: 4.469 min Scan# 27
Delta R.T. 0.001 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

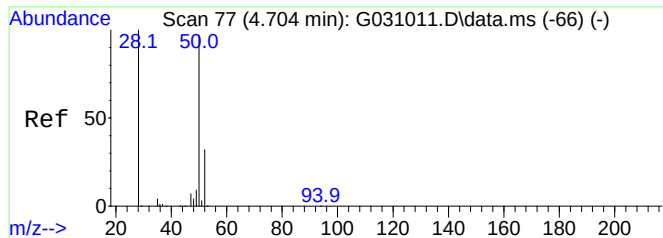
Tgt Ion: 41 Resp: 126888
Ion Ratio Lower Upper
41 100
42 59.5 46.4 86.4
39 81.3 48.8 88.8



#3
DICHLORODIFLUOROMETHANE
Concen: 0.75 PPBV
RT: 4.536 min Scan# 37
Delta R.T. -0.007 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

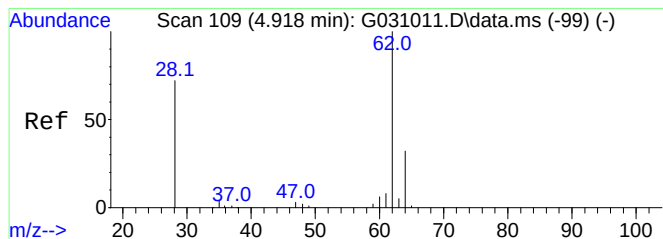
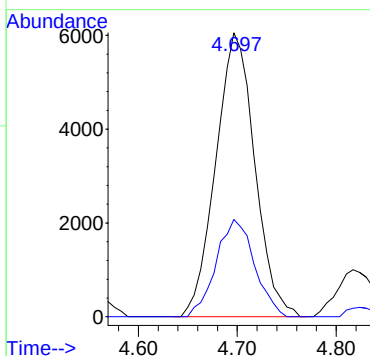
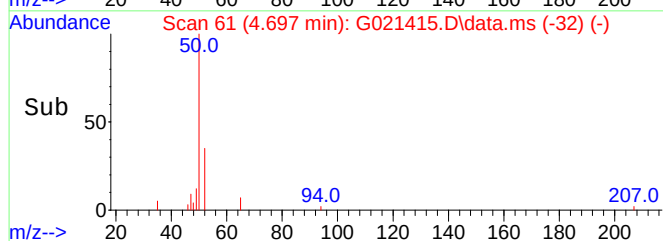
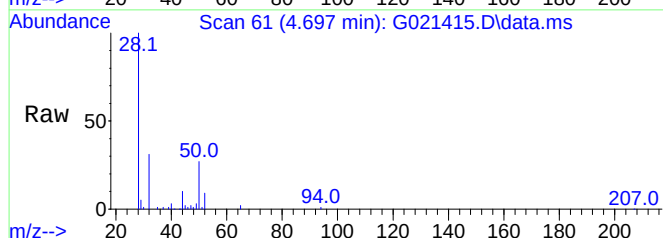
Tgt Ion: 85 Resp: 47348
Ion Ratio Lower Upper
85 100
87 32.1 12.1 52.1





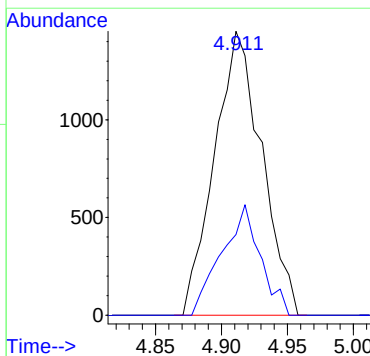
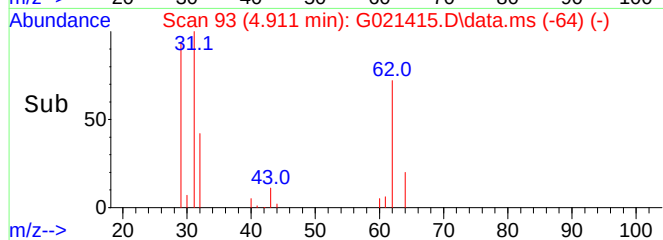
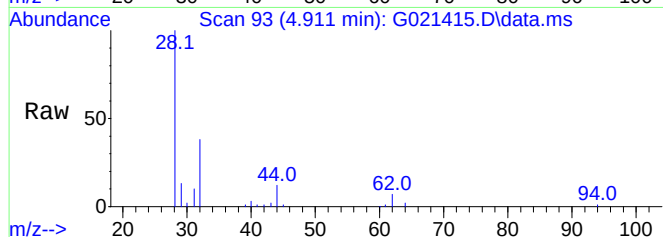
#4
CHLOROMETHANE
Concen: 0.92 PPBV
RT: 4.697 min Scan# 61
Delta R.T. -0.007 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

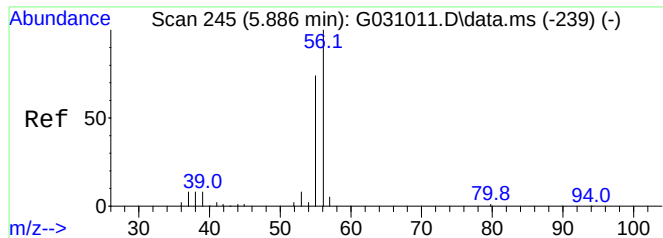
Tgt Ion: 50 Resp: 16599
Ion Ratio Lower Upper
50 100
52 33.6 12.8 52.8



#6
VINYL CHLORIDE
Concen: 0.17 PPBV
RT: 4.911 min Scan# 93
Delta R.T. -0.007 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

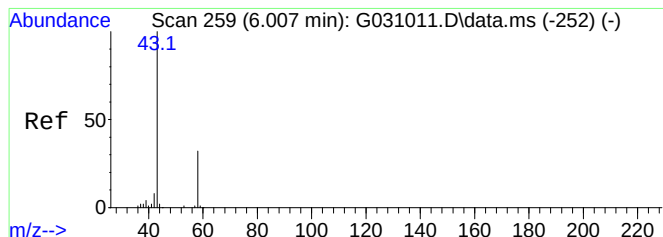
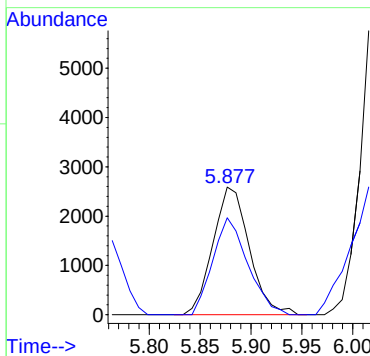
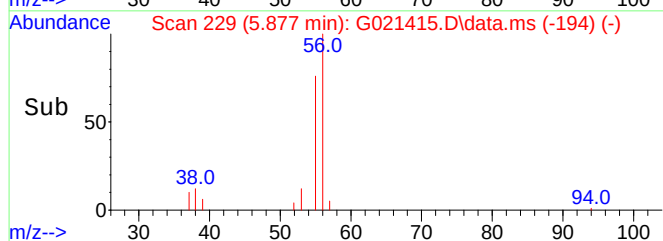
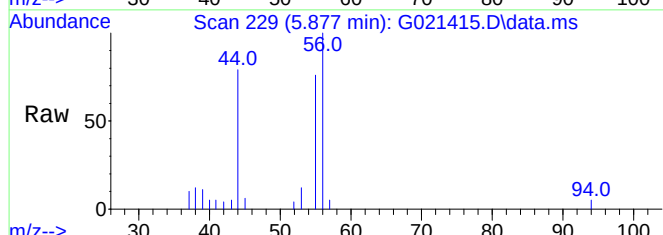
Tgt Ion: 62 Resp: 3622
Ion Ratio Lower Upper
62 100
64 31.8 11.8 51.8





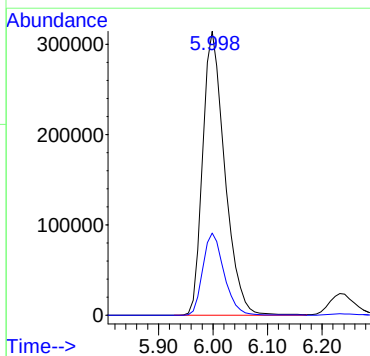
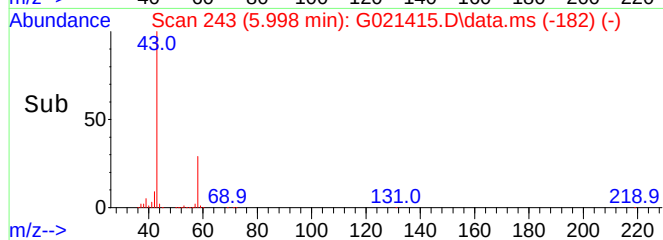
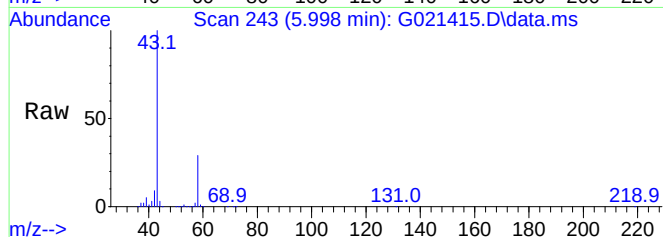
#10
ACROLEIN
Concen: 0.86 PPBV
RT: 5.877 min Scan# 229
Delta R.T. -0.008 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

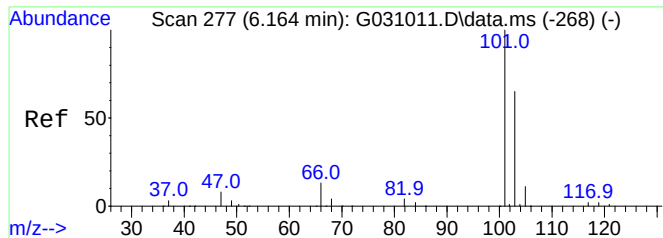
Tgt Ion: 56 Resp: 6427
Ion Ratio Lower Upper
56 100
55 73.3 56.1 84.1



#11
ACETONE
Concen: 28.33 PPBV
RT: 5.998 min Scan# 243
Delta R.T. -0.009 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

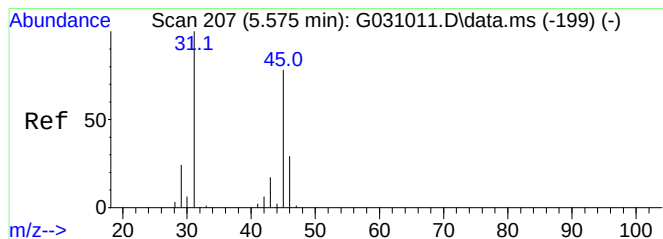
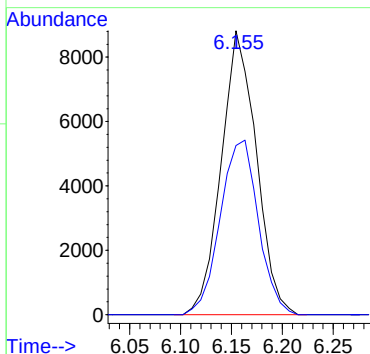
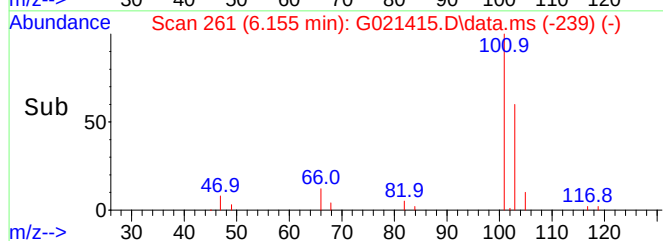
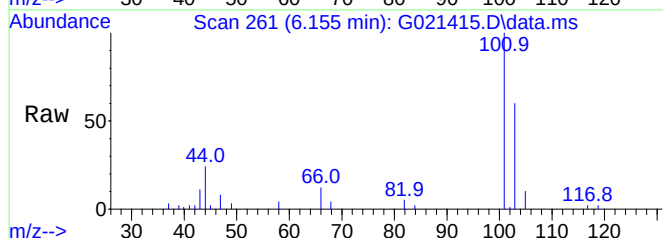
Tgt Ion: 43 Resp: 882867
Ion Ratio Lower Upper
43 100
58 27.8 13.9 53.9





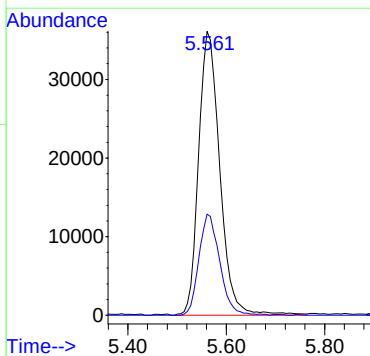
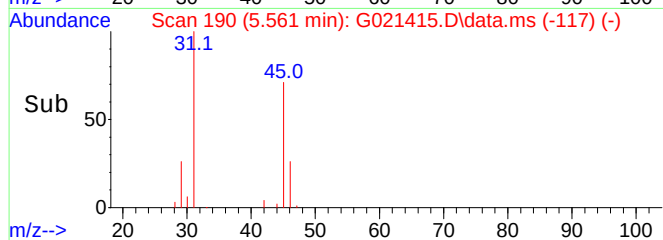
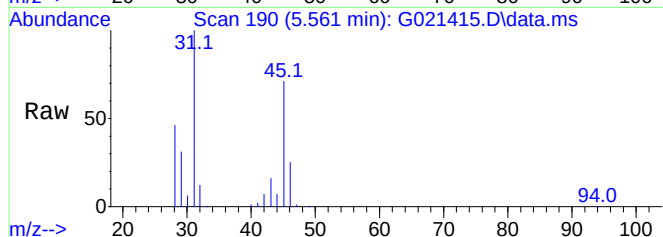
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.42 PPBV
 RT: 6.155 min Scan# 261
 Delta R.T. -0.009 min
 Lab File: G021415.D
 Acq: 14 Feb 2012 9:33 pm

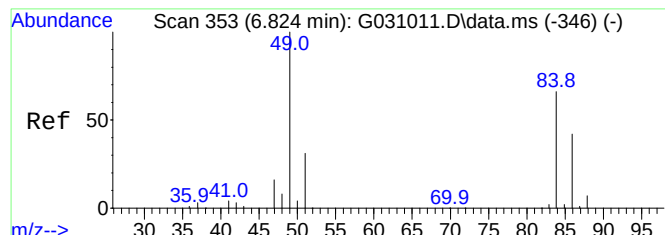
Tgt Ion: 101 Resp: 21166
 Ion Ratio Lower Upper
 101 100
 103 66.6 44.8 84.8



#13
 ETHANOL
 Concen: 18.35 PPBV
 RT: 5.561 min Scan# 190
 Delta R.T. -0.013 min
 Lab File: G021415.D
 Acq: 14 Feb 2012 9:33 pm

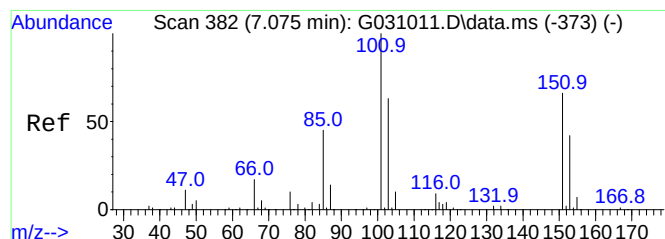
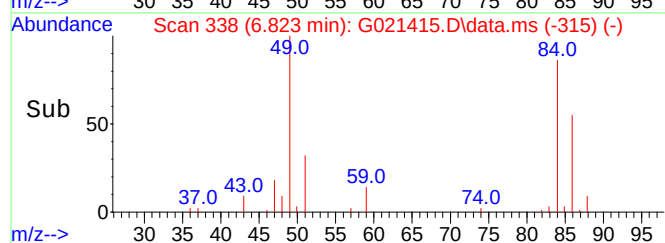
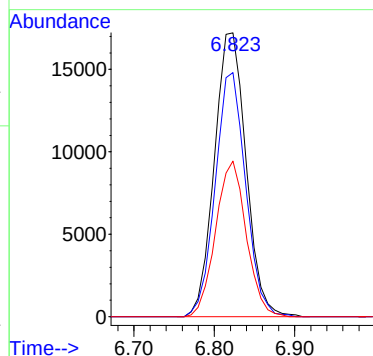
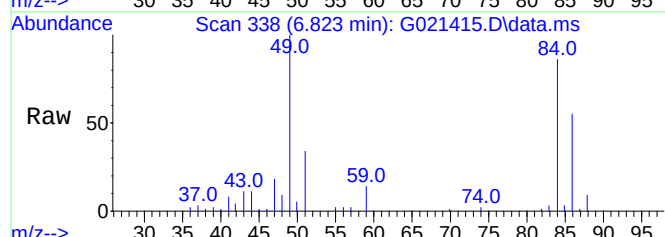
Tgt Ion: 45 Resp: 120380
 Ion Ratio Lower Upper
 45 100
 46 31.3 14.0 54.0





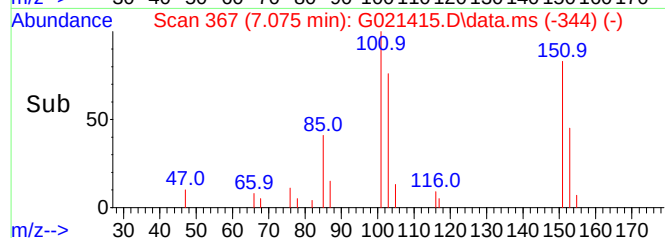
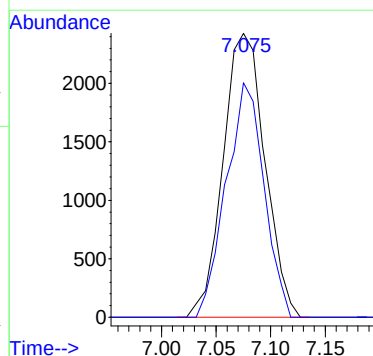
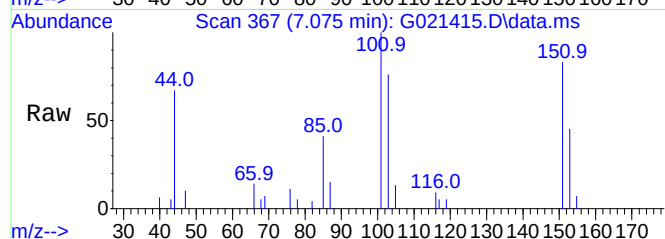
#15
METHYLENE CHLORIDE
Concen: 1.35 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

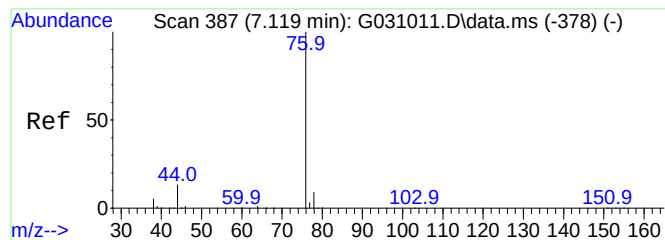
Tgt Ion: 49 Resp: 47298
Ion Ratio Lower Upper
49 100
84 82.5 45.2 85.2
86 52.9 21.4 61.4



#16
FREON 113
Concen: 0.11 PPBV
RT: 7.075 min Scan# 367
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

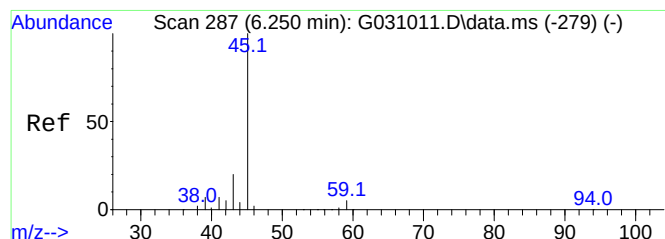
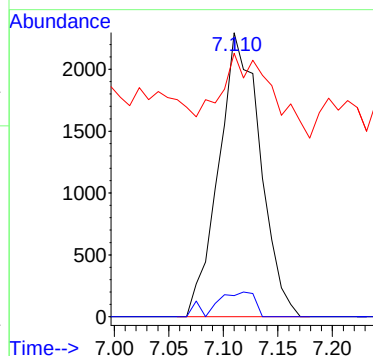
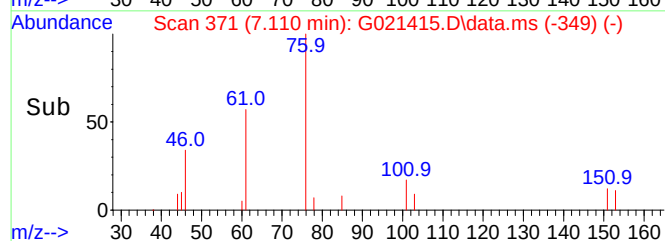
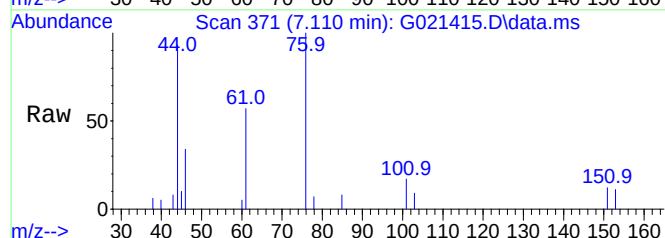
Tgt Ion: 101 Resp: 6483
Ion Ratio Lower Upper
101 100
151 74.6 46.3 86.3





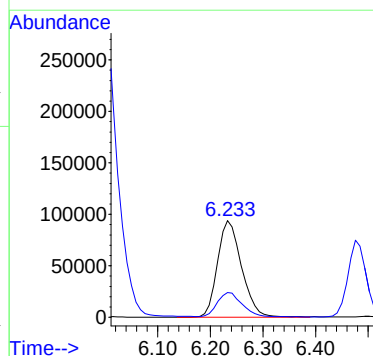
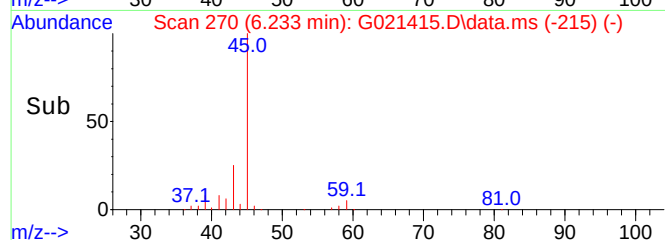
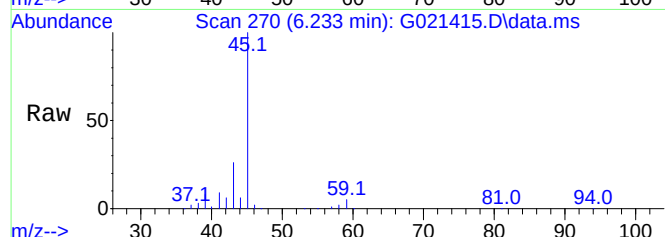
#17
CARBON DISULFIDE
Concen: 0.07 PPBV
RT: 7.110 min Scan# 371
Delta R.T. -0.009 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

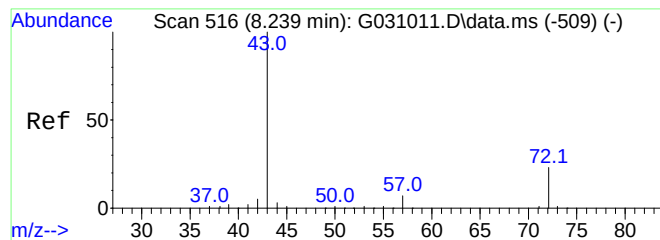
Tgt Ion: 76 Resp: 6060
Ion Ratio Lower Upper
76 100
78 8.3 0.0 30.7
44 37.1 0.0 33.4#



#21
IPA
Concen: 9.05 PPBV
RT: 6.233 min Scan# 270
Delta R.T. -0.017 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

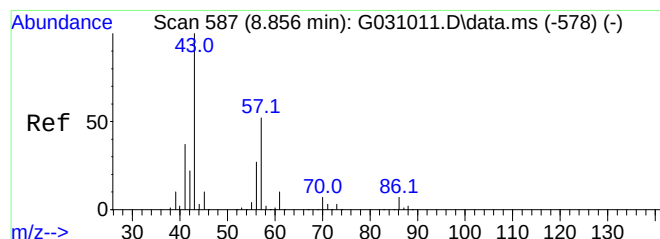
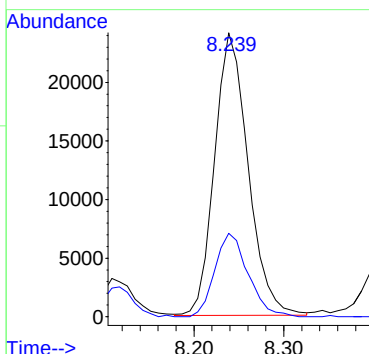
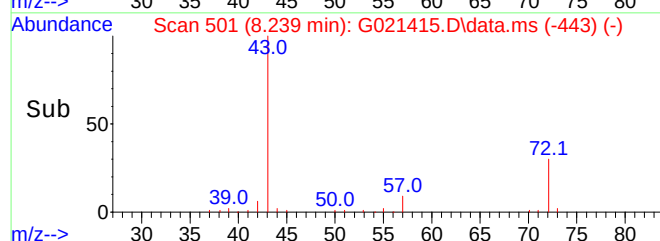
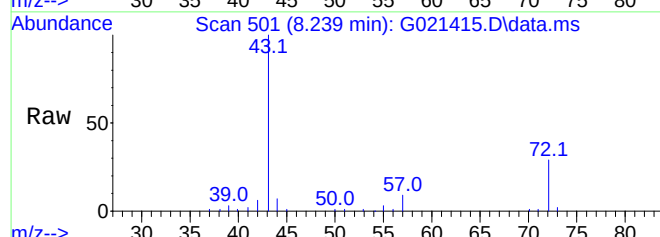
Tgt Ion: 45 Resp: 296916
Ion Ratio Lower Upper
45 100
43 26.8 0.6 40.6





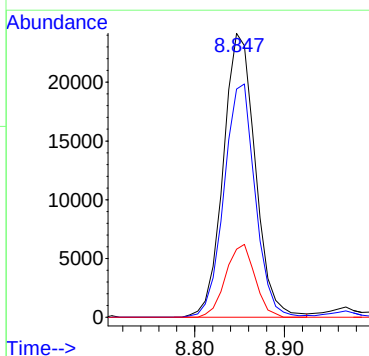
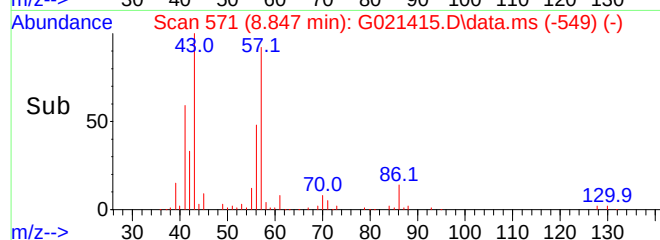
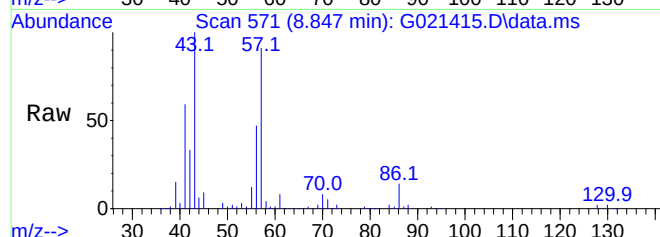
#22
2-BUTANONE (MEK)
Concen: 0.99 PPBV
RT: 8.239 min Scan# 501
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

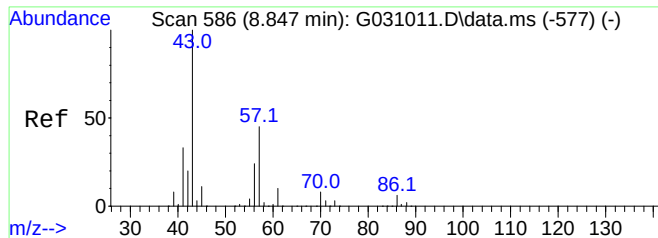
Tgt Ion: 43 Resp: 62498
Ion Ratio Lower Upper
43 100
72 29.2 2.6 42.6



#25
HEXANE
Concen: 1.82 PPBV
RT: 8.847 min Scan# 571
Delta R.T. -0.009 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

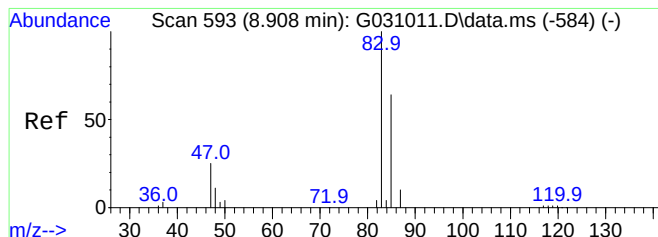
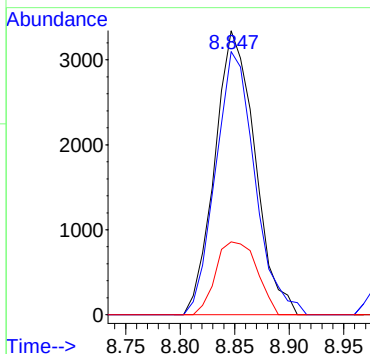
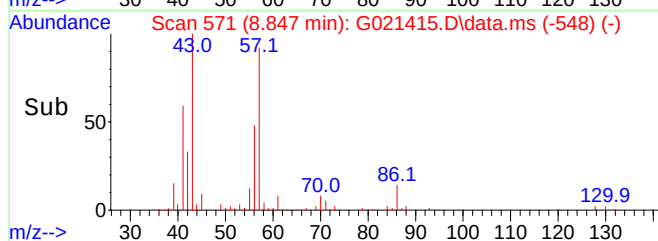
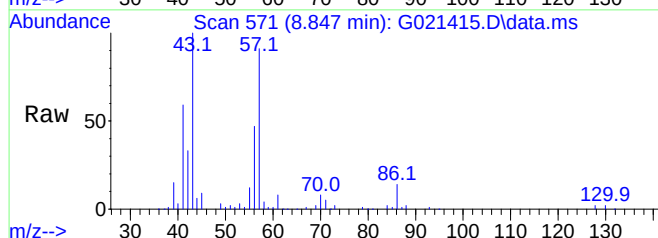
Tgt Ion: 41 Resp: 59719
Ion Ratio Lower Upper
41 100
56 80.1 50.8 90.8
86 23.4 9.6 29.6





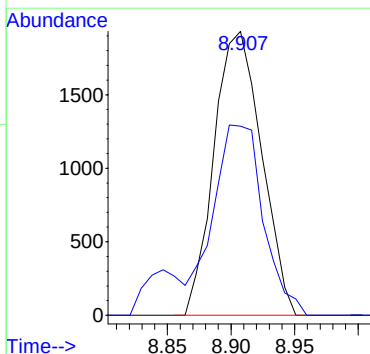
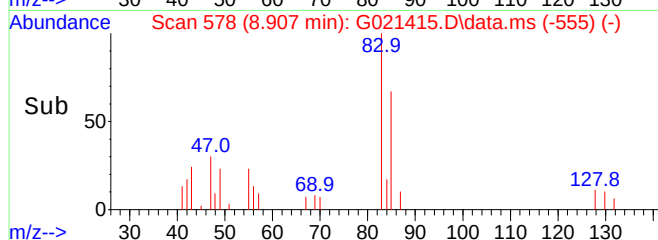
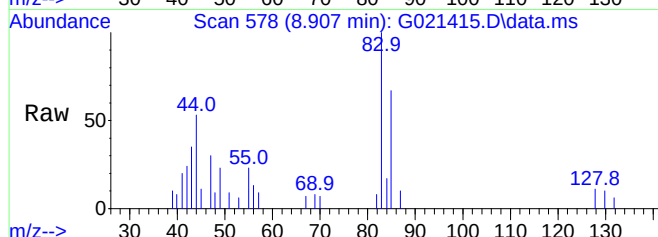
#26
ETHYL ACETATE
Concen: 0.77 PPBV
RT: 8.847 min Scan# 571
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

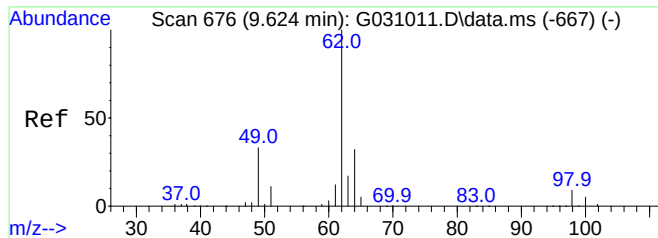
Tgt Ion: 61 Resp: 8550
Ion Ratio Lower Upper
61 100
70 90.7 58.2 98.2
88 26.4 3.0 43.0



#27
CHLOROFORM
Concen: 0.08 PPBV
RT: 8.907 min Scan# 578
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

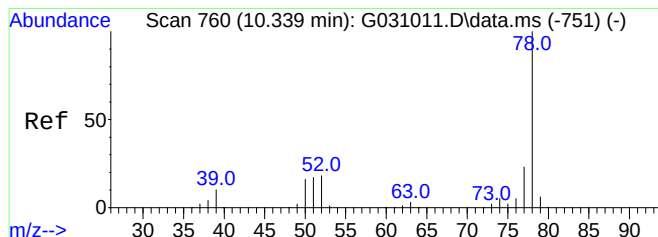
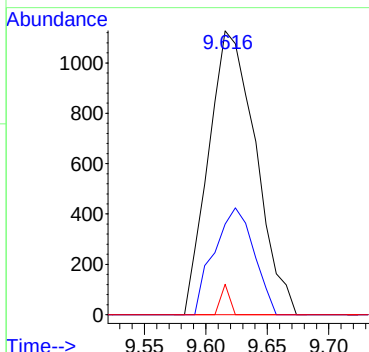
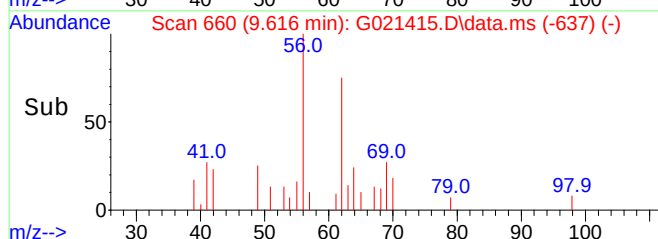
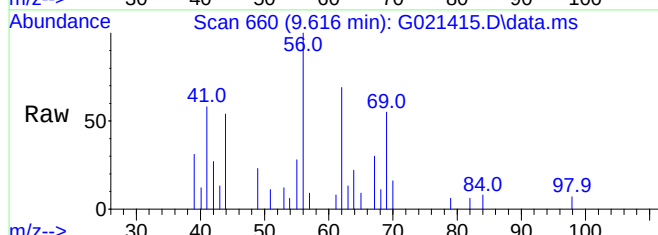
Tgt Ion: 83 Resp: 5022
Ion Ratio Lower Upper
83 100
85 70.8 44.9 84.9





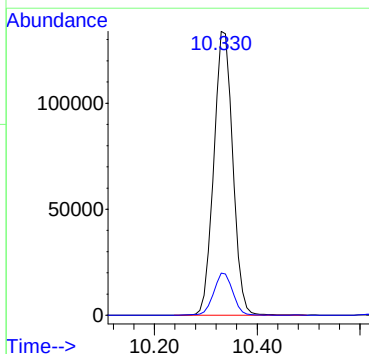
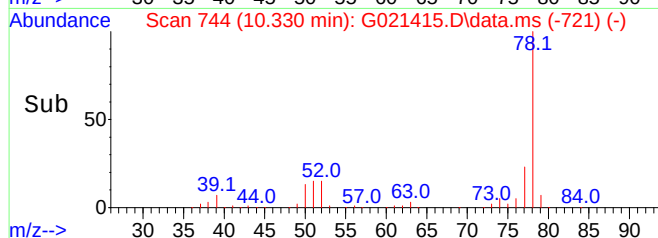
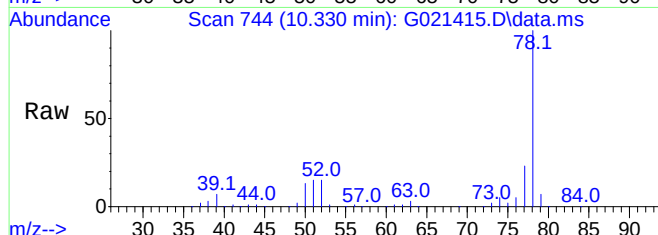
#29
1,2-DICHLOROETHANE
Concen: 0.07 PPBV
RT: 9.616 min Scan# 660
Delta R.T. -0.009 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

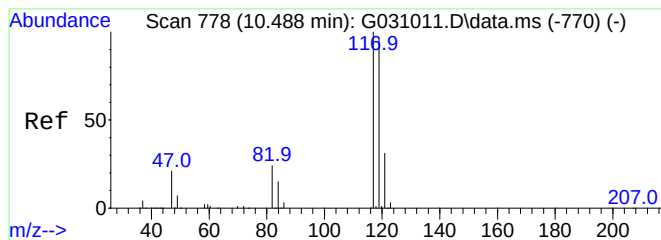
Tgt Ion: 62 Resp: 3000
Ion Ratio Lower Upper
62 100
64 31.8 12.5 52.5
98 0.0 0.0 18.4



#32
BENZENE
Concen: 2.71 PPBV
RT: 10.330 min Scan# 744
Delta R.T. -0.009 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

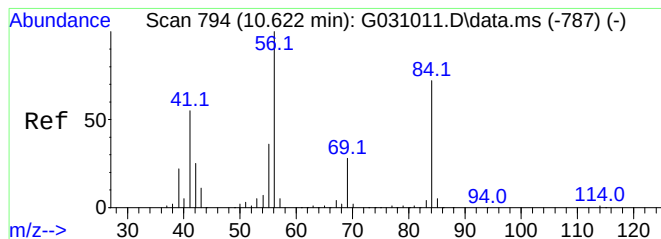
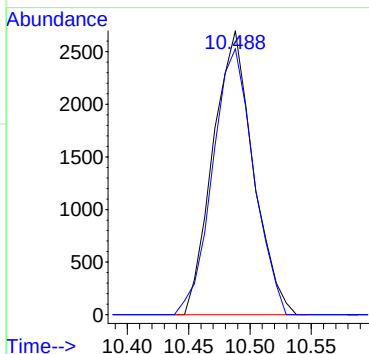
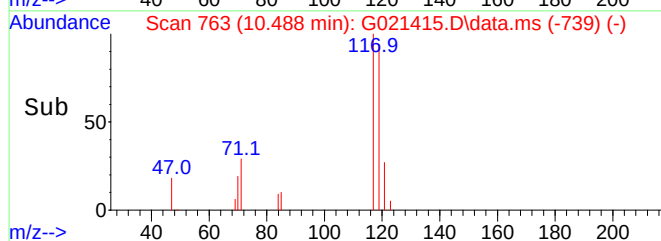
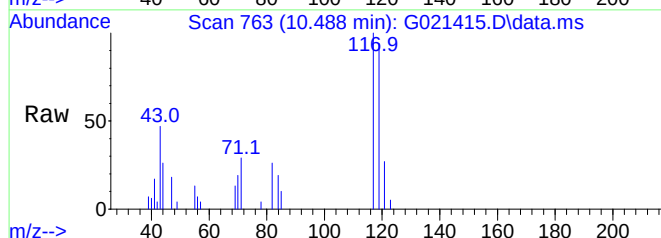
Tgt Ion: 78 Resp: 342489
Ion Ratio Lower Upper
78 100
51 15.0 0.0 37.6





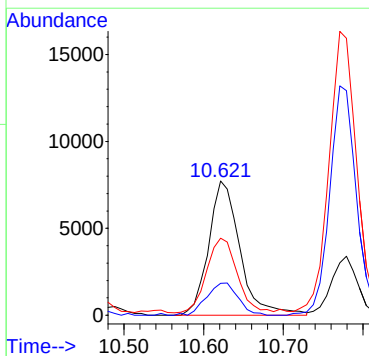
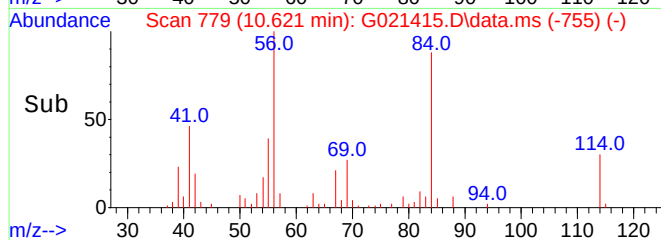
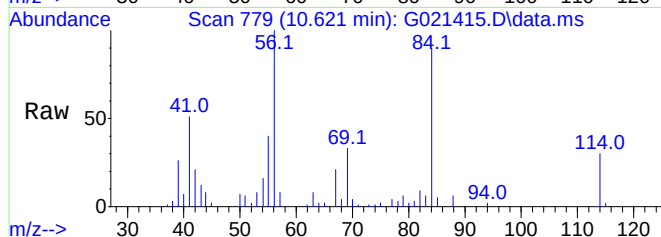
#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.488 min Scan# 763
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

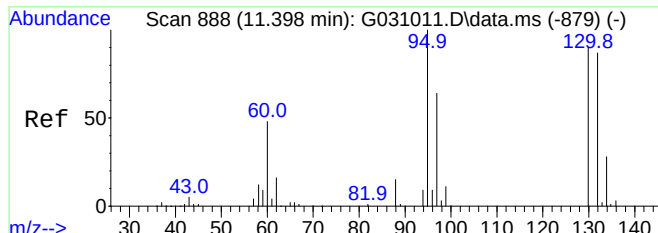
Tgt Ion: 117 Resp: 6151
Ion Ratio Lower Upper
117 100
119 95.4 75.4 115.4



#34
CYCLOHEXANE
Concen: 0.40 PPBV
RT: 10.621 min Scan# 779
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

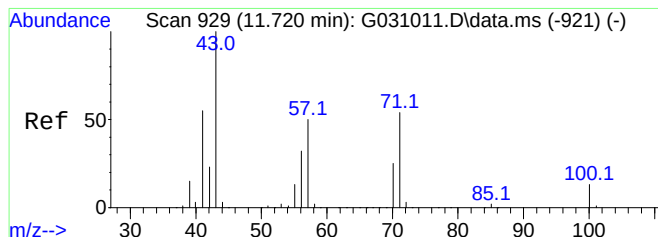
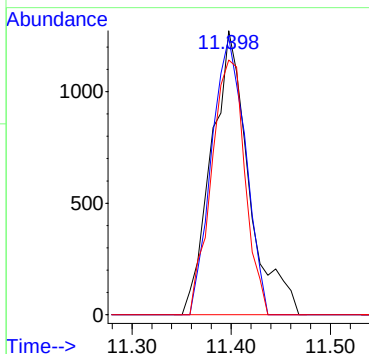
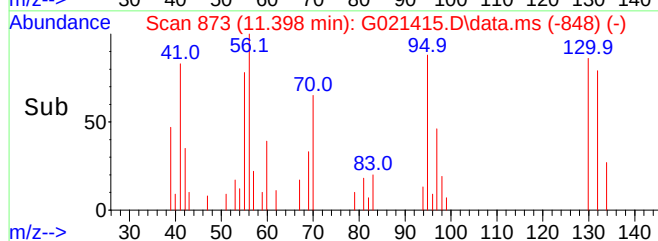
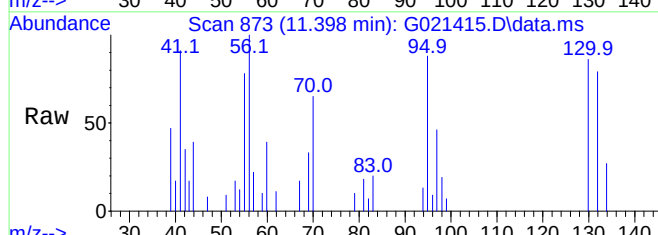
Tgt Ion: 84 Resp: 21145
Ion Ratio Lower Upper
84 100
42 24.1 13.2 53.2
41 53.8 55.4 95.4#





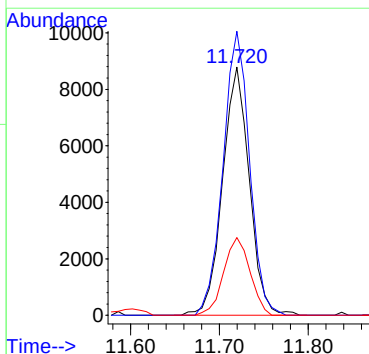
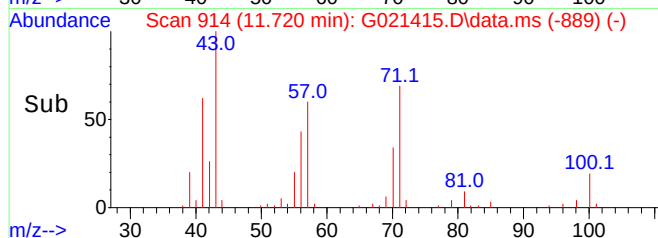
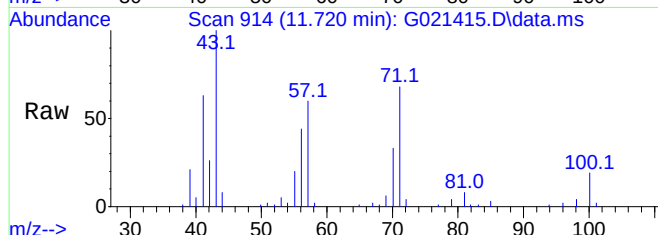
#37
TRICHLOROETHENE
Concen: 0.06 PPBV
RT: 11.398 min Scan# 873
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

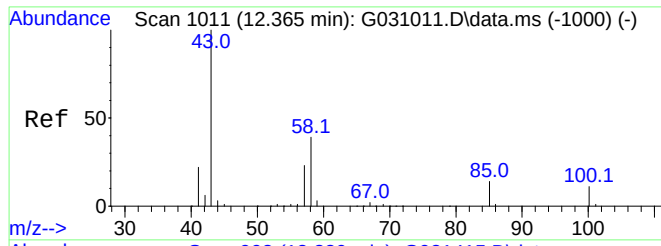
Tgt Ion: 95 Resp: 3333
Ion Ratio Lower Upper
95 100
130 88.5 71.2 111.2
132 80.4 66.9 106.9



#40
HEPTANE
Concen: 0.48 PPBV
RT: 11.720 min Scan# 914
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

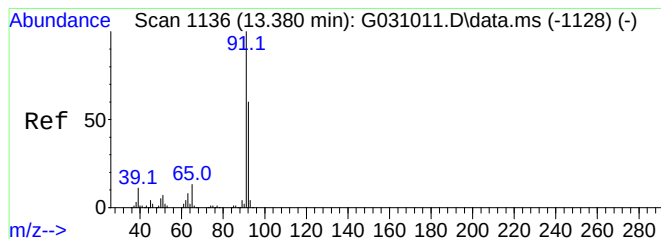
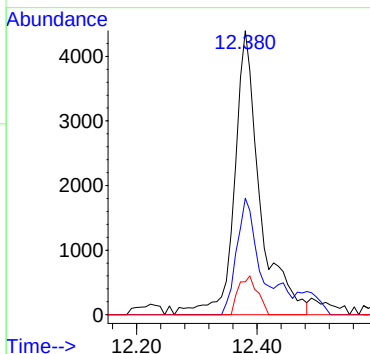
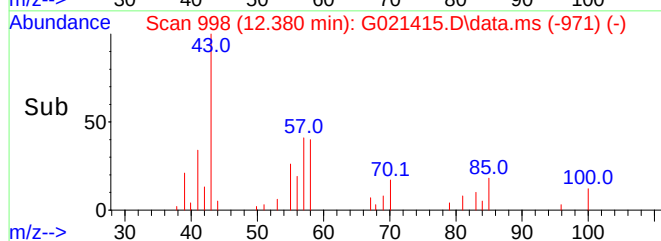
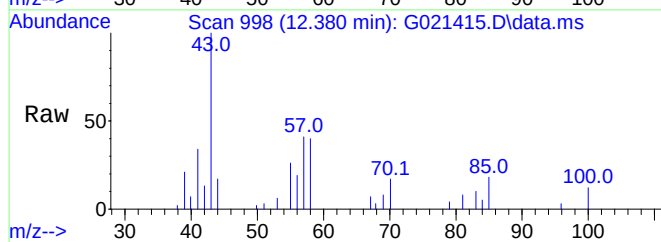
Tgt Ion: 57 Resp: 18397
Ion Ratio Lower Upper
57 100
71 112.9 83.8 123.8
100 30.8 5.4 45.4





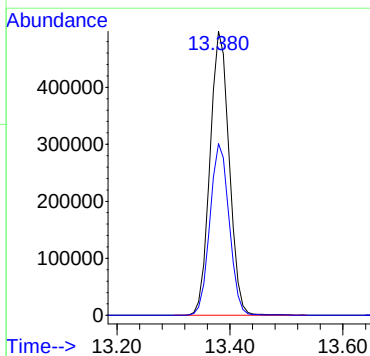
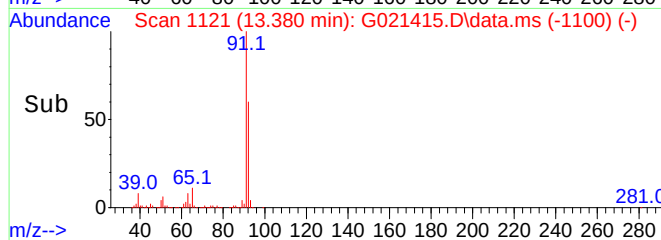
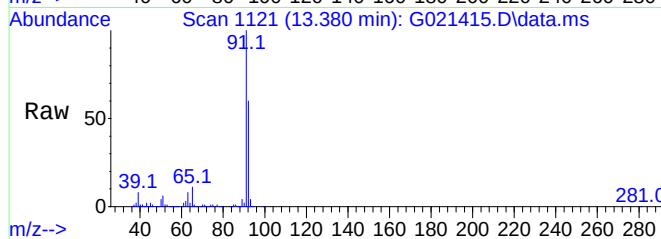
#41
MIBK
Concen: 0.14 PPBV
RT: 12.380 min Scan# 998
Delta R.T. 0.015 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

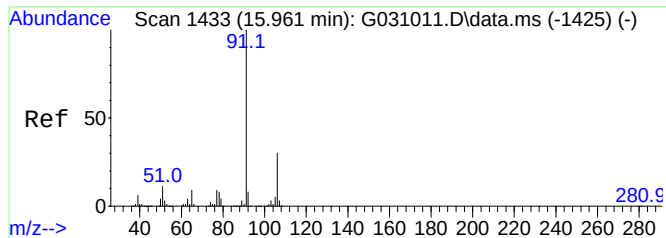
Tgt Ion: 43 Resp: 12939
Ion Ratio Lower Upper
43 100
57 34.4 2.8 42.8
100 10.2 1.0 21.0



#46
TOLUENE
Concen: 8.35 PPBV
RT: 13.380 min Scan# 1121
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

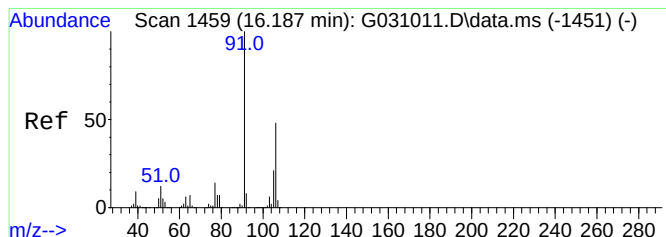
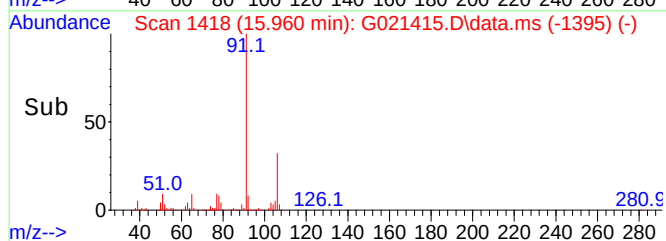
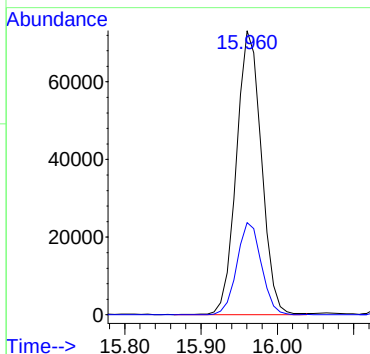
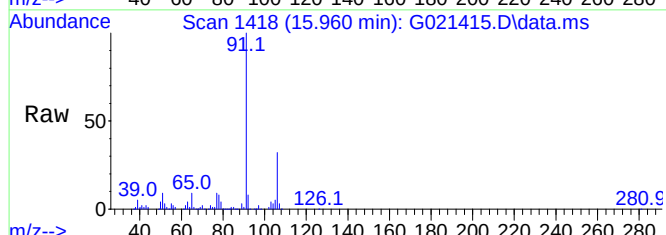
Tgt Ion: 91 Resp: 1174125
Ion Ratio Lower Upper
91 100
92 60.6 39.7 79.7





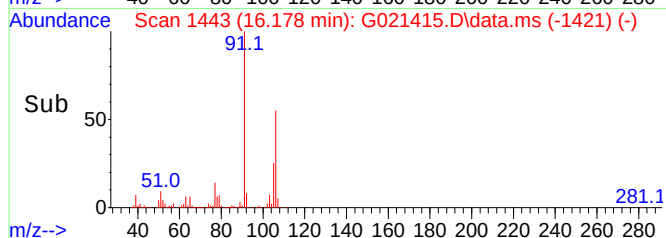
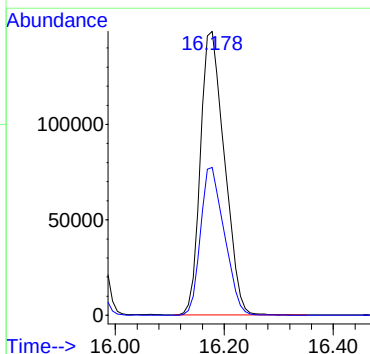
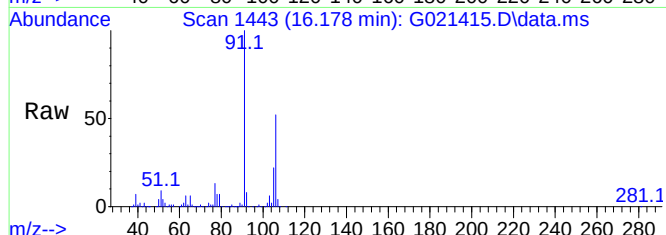
#52
ETHYLBENZENE
Concen: 0.94 PPBV
RT: 15.960 min Scan# 1418
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

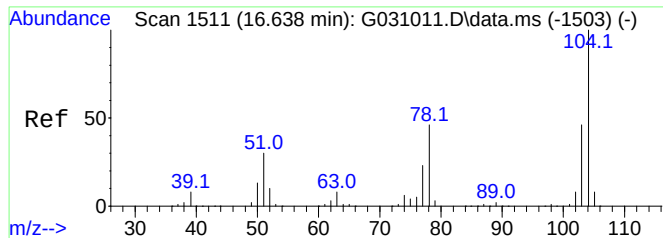
Tgt Ion: 91 Resp: 166916
Ion Ratio Lower Upper
91 100
106 31.7 10.0 50.0



#53
M/P-XYLENE
Concen: 3.24 PPBV
RT: 16.178 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

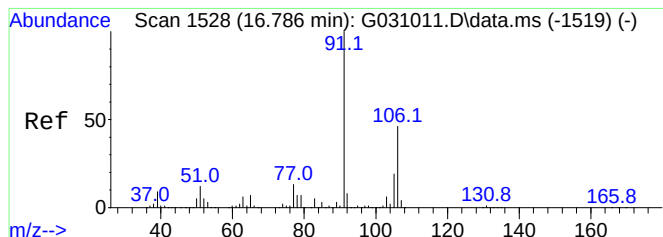
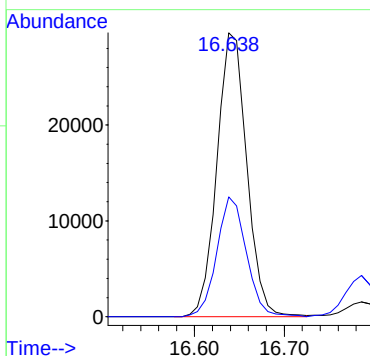
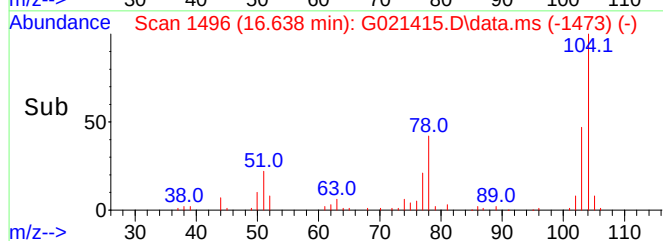
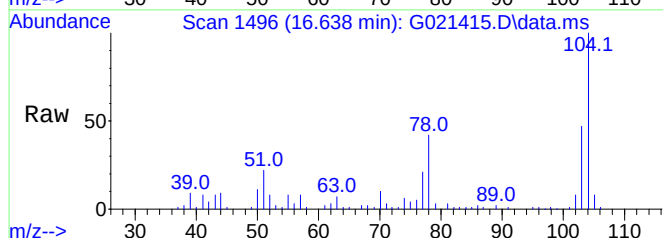
Tgt Ion: 91 Resp: 454936
Ion Ratio Lower Upper
91 100
106 51.6 28.3 68.3





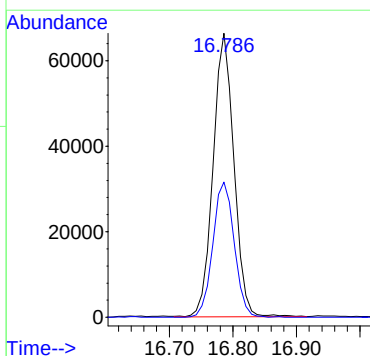
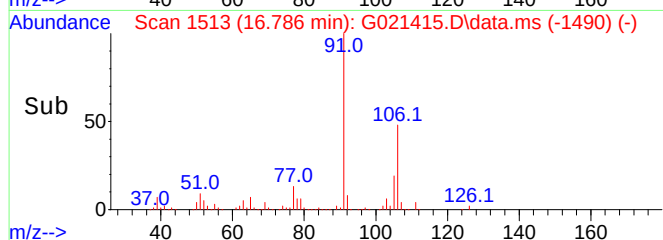
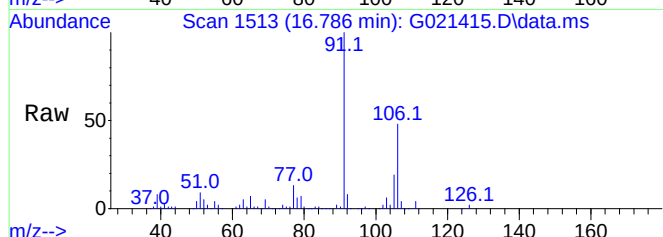
#55
 STYRENE
 Concen: 0.67 PPBV
 RT: 16.638 min Scan# 1496
 Delta R.T. -0.000 min
 Lab File: G021415.D
 Acq: 14 Feb 2012 9:33 pm

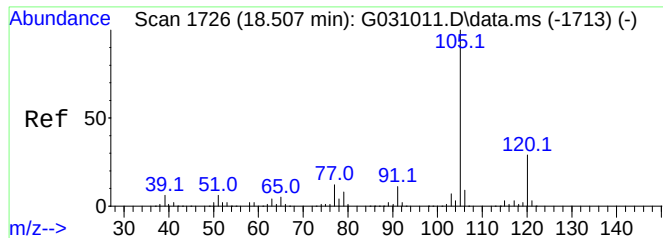
Tgt Ion: 104 Resp: 68246
 Ion Ratio Lower Upper
 104 100
 78 41.9 25.1 65.1



#56
 O-XYLENE
 Concen: 1.08 PPBV
 RT: 16.786 min Scan# 1513
 Delta R.T. -0.000 min
 Lab File: G021415.D
 Acq: 14 Feb 2012 9:33 pm

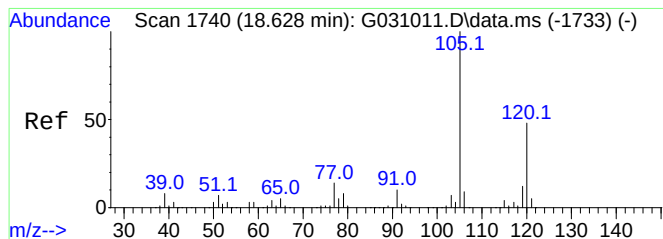
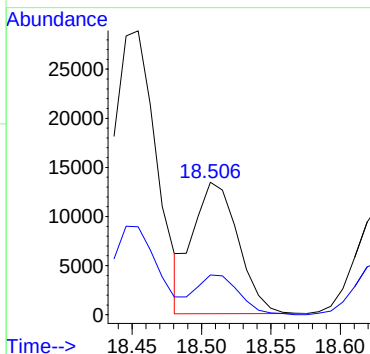
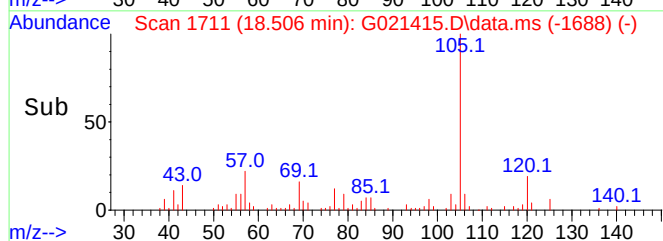
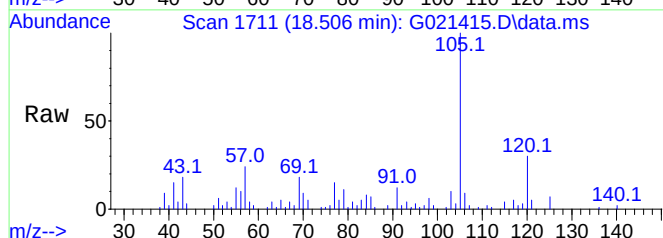
Tgt Ion: 91 Resp: 150819
 Ion Ratio Lower Upper
 91 100
 106 48.9 25.5 65.5





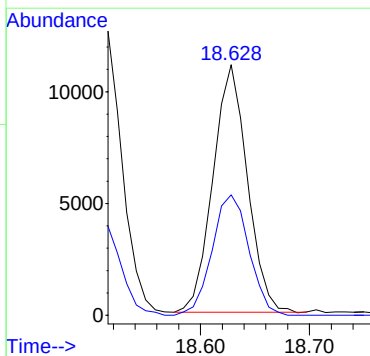
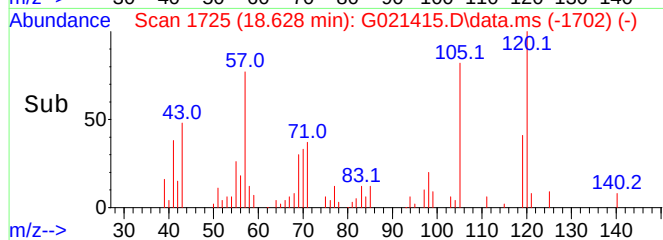
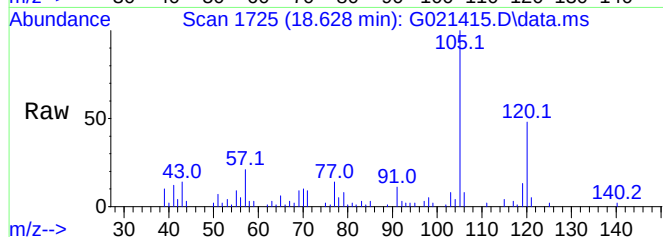
#59
4-ETHYLTOLUENE
Concen: 0.16 PPBV
RT: 18.506 min Scan# 1711
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

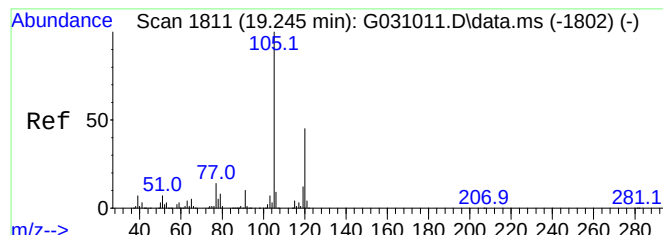
Tgt Ion:105 Resp: 30331
Ion Ratio Lower Upper
105 100
120 27.4 8.6 48.6



#60
1,3,5-TRIMETHYLBENZENE
Concen: 0.16 PPBV
RT: 18.628 min Scan# 1725
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

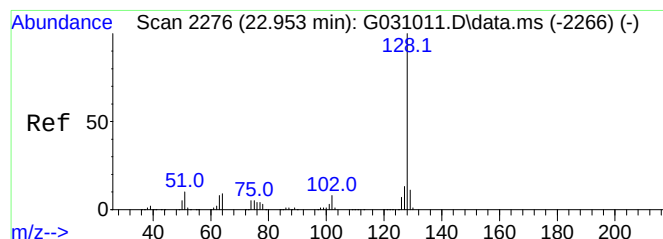
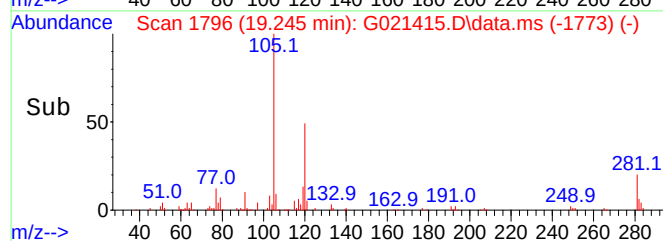
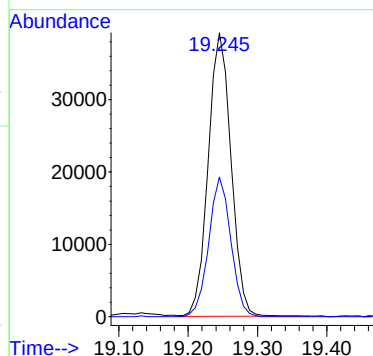
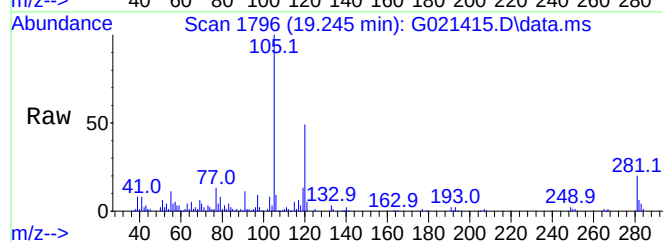
Tgt Ion:105 Resp: 24236
Ion Ratio Lower Upper
105 100
120 52.1 28.3 68.3





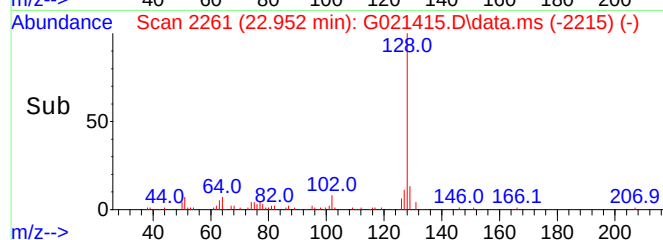
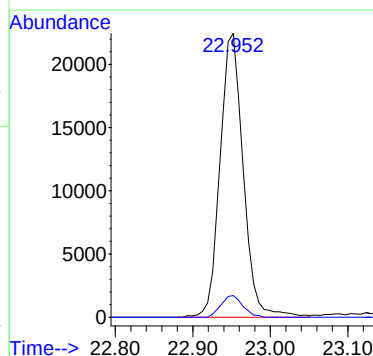
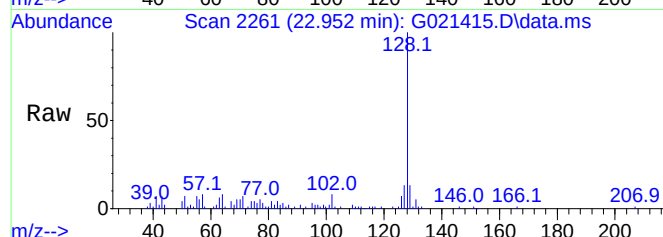
#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.59 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

Tgt Ion:105 Resp: 89677
Ion Ratio Lower Upper
105 100
120 47.6 24.8 64.8



#67
NAPHTHALENE
Concen: 0.23 PPBV
RT: 22.952 min Scan# 2261
Delta R.T. 0.000 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

Tgt Ion:128 Resp: 46571
Ion Ratio Lower Upper
128 100
102 7.2 0.0 28.6



Data File : C:\msdchem\1\data\G021412\G021415.D
 Acq On : 14 Feb 2012 9:33 pm
 Sample : 12B0323-08 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:14:45 2012

Vial: 7
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	1019244	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	184121	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	685782	9.84	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	123.00%
Target Compounds						
4) TERT-BUTYL ALCOHOL	6.832	59	9354m	0.157	PPBV	Qvalue
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	85517	0.586	PPBV	89
6) METHYLCYCLOHEXANE	12.435	83	25002	0.416	PPBV	85
11) CUMENE	17.577	105	7527	0.050	PPBV	100
12) PROPYLBENZENE	18.298	120	4569	0.113	PPBV	92
15) P-CYMENE	19.931	119	64227	0.430	PPBV	94
16) INDANE	20.227	117	13137	0.114	PPBV	99
17) INDENE	20.383	115	15630	0.175	PPBV	99
18) BUTYLBENZENE	20.731	91	8427	0.056	PPBV	88

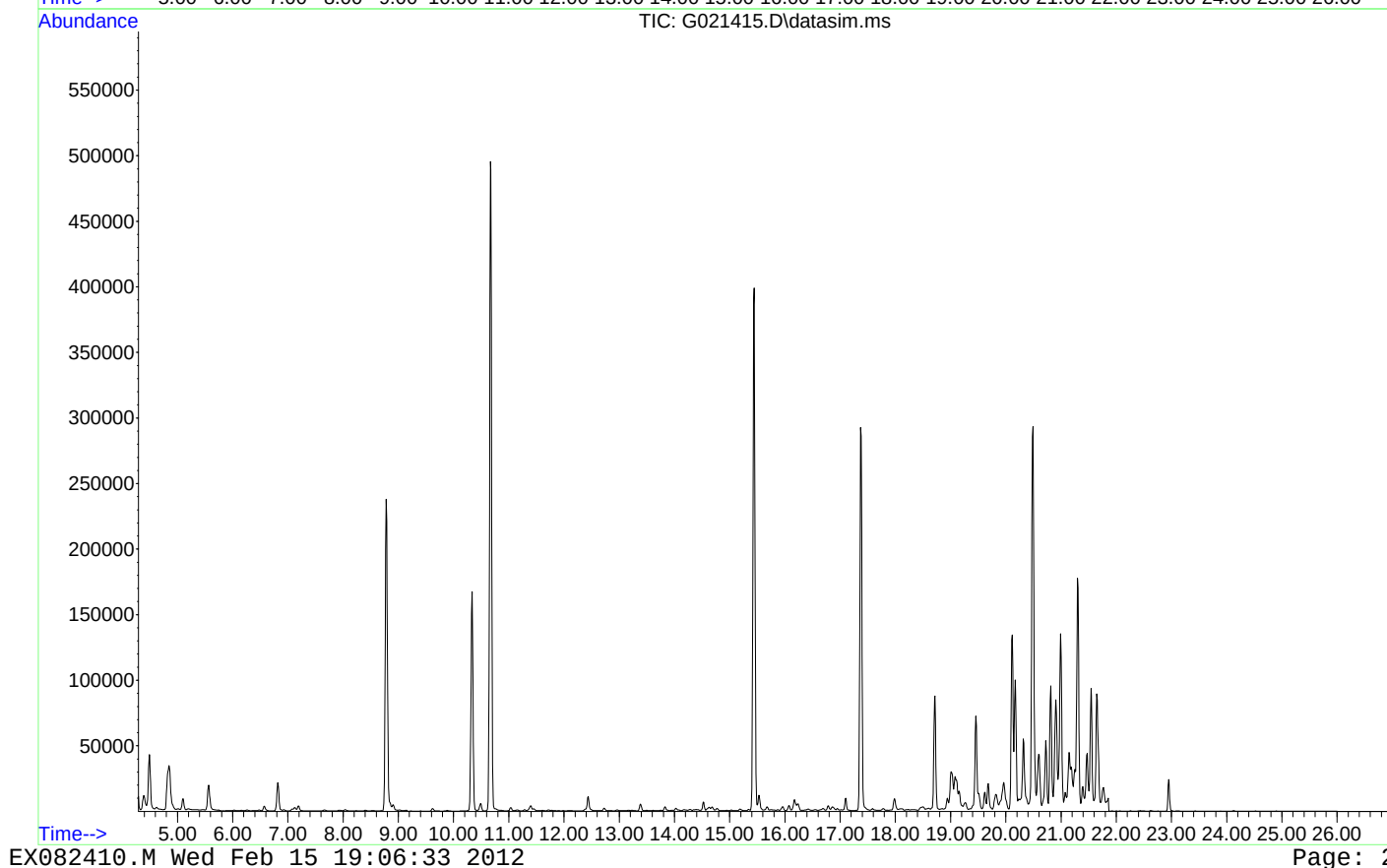
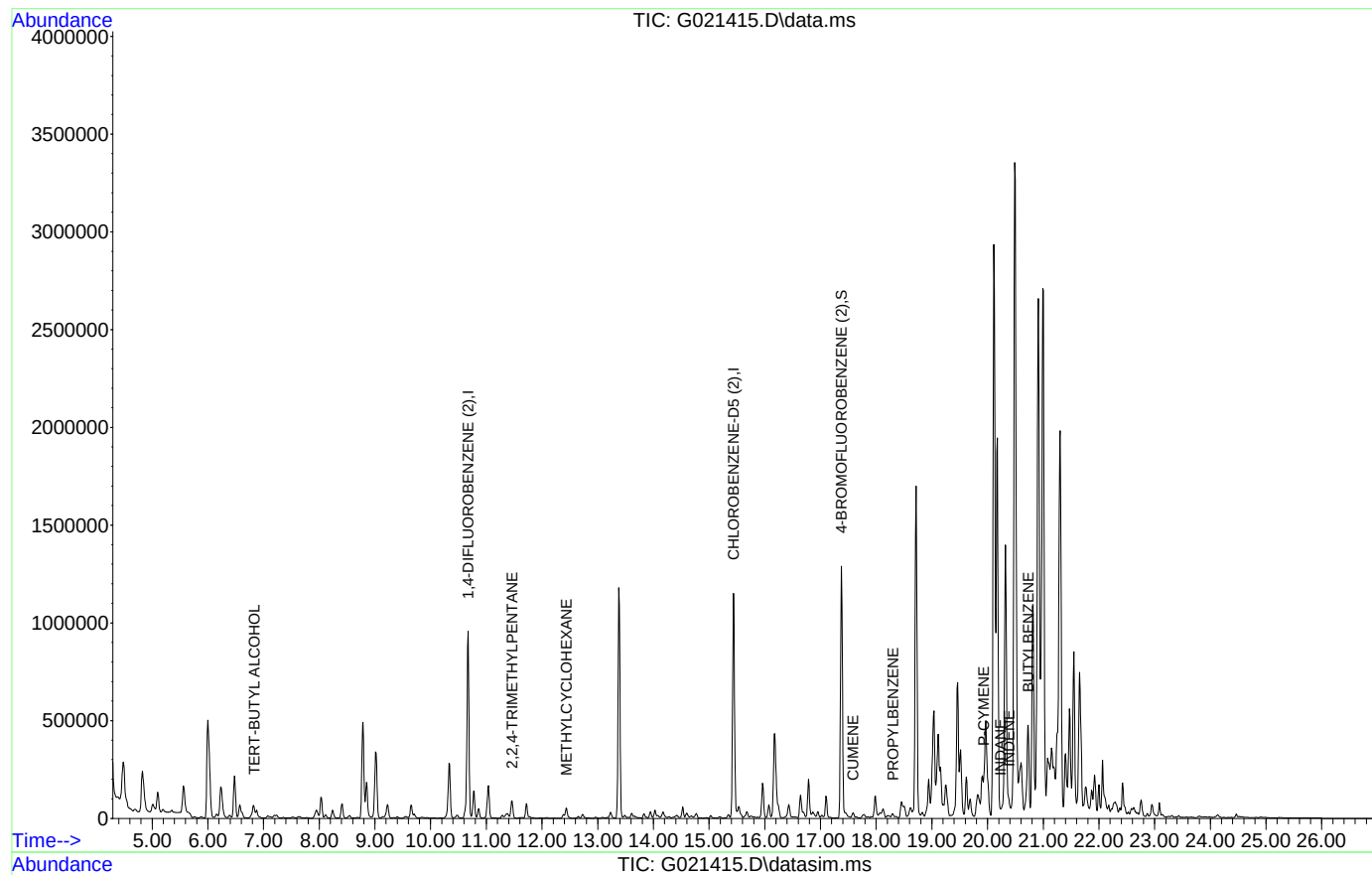
(#) = qualifier out of range (m) = manual integration (+) = signals summed

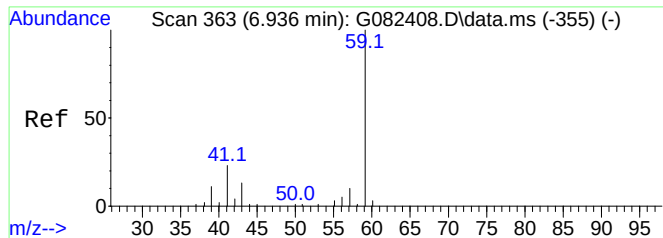
Data File : C:\msdchem\1\data\G021412\G021415.D
Acq On : 14 Feb 2012 9:33 pm
Sample : 12B0323-08 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:14:45 2012

Vial: 7
Operator: WSD
Inst : SYSG
Multiplr: 1.00

260

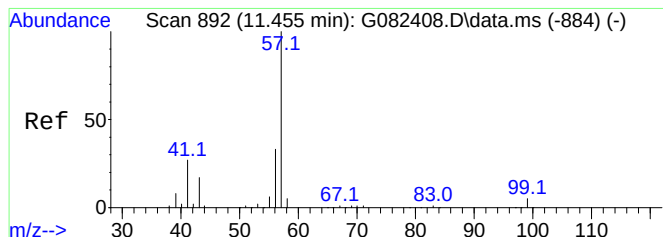
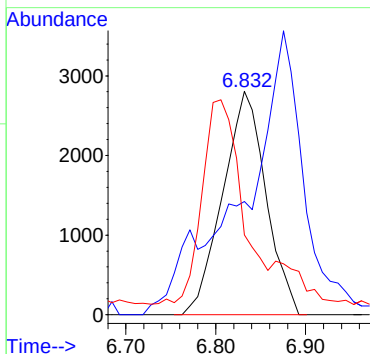
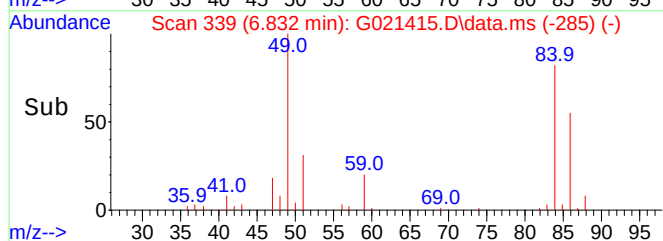
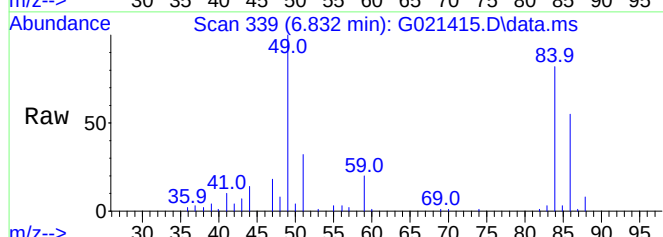
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





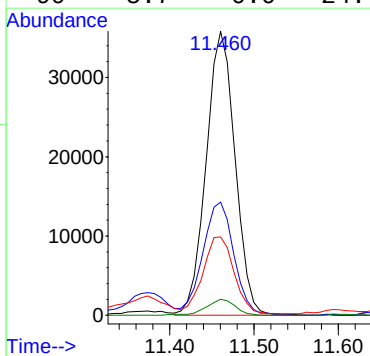
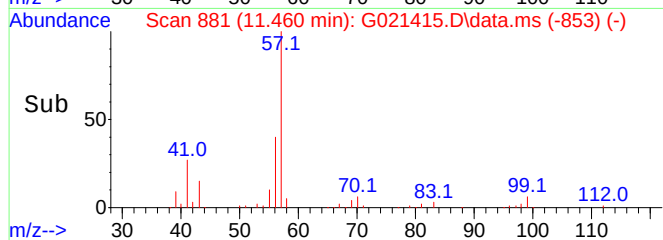
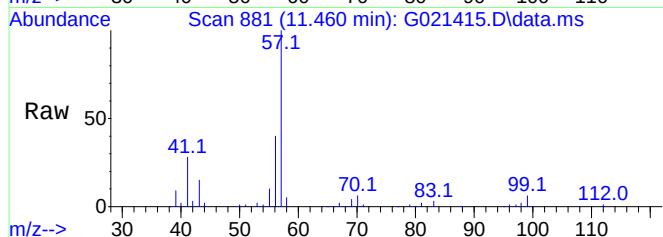
#4
TERT-BUTYL ALCOHOL
Concen: 0.16 PPBv m
RT: 6.832 min Scan# 339
Delta R.T. -0.028 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

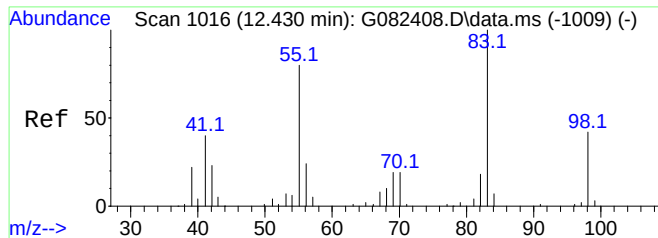
Tgt Ion: 59 Resp: 9354
Ion Ratio Lower Upper
59 100
41 47.2 7.9 47.9
43 84.2 0.0 32.8#



#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.59 PPBV
RT: 11.460 min Scan# 881
Delta R.T. 0.021 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

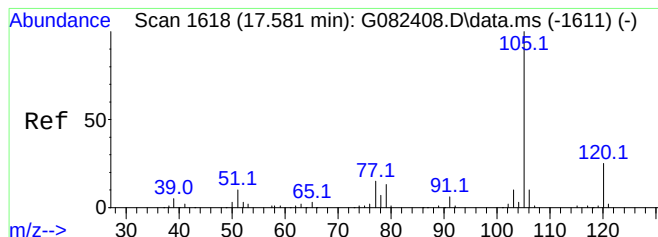
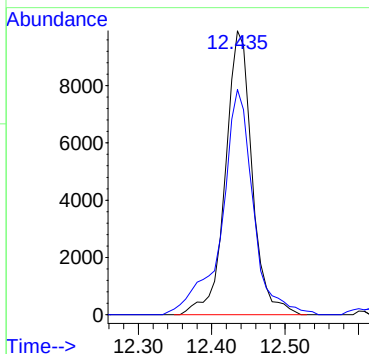
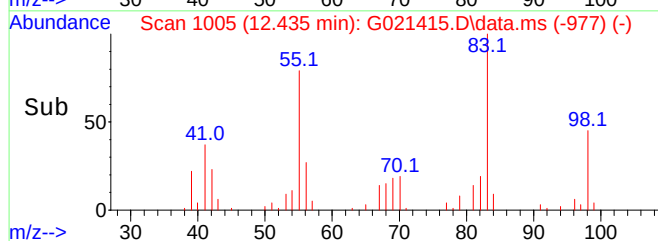
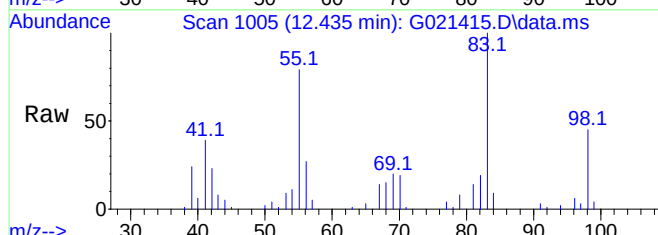
Tgt Ion: 57 Resp: 85517
Ion Ratio Lower Upper
57 100
56 43.3 13.7 53.7
41 28.8 5.8 45.8
99 5.7 0.0 24.7





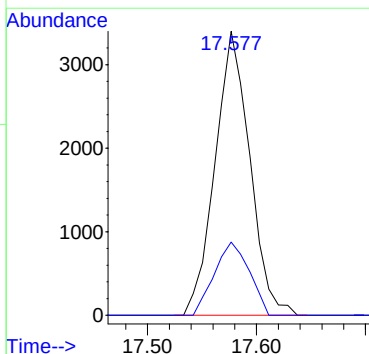
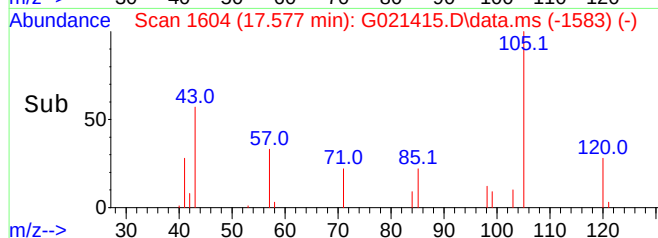
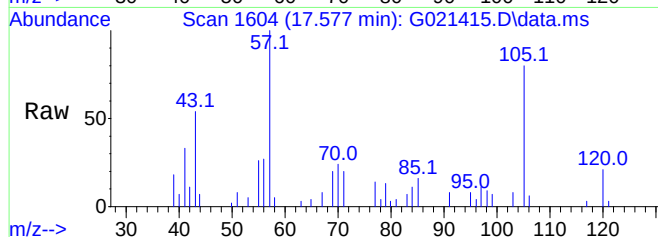
#6
METHYLCYCLOHEXANE
Concen: 0.42 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.021 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

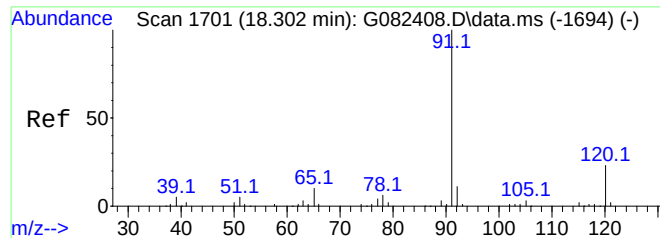
Tgt Ion: 83 Resp: 25002
Ion Ratio Lower Upper
83 100
55 94.0 60.5 100.5



#11
CUMENE
Concen: 0.05 PPBV
RT: 17.577 min Scan# 1604
Delta R.T. -0.022 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

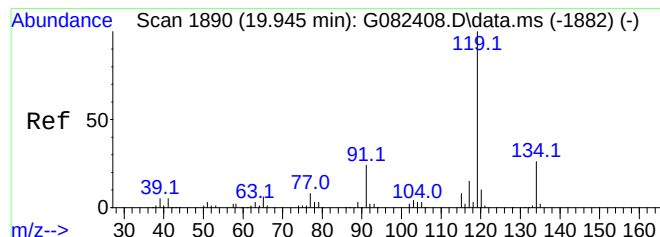
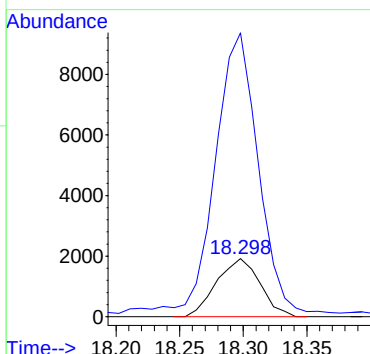
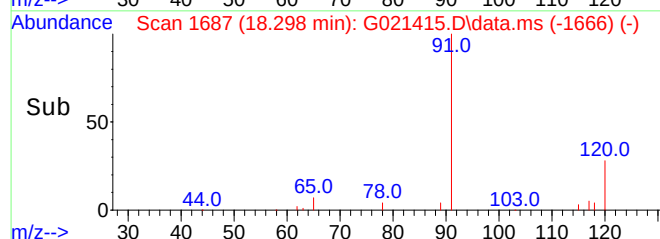
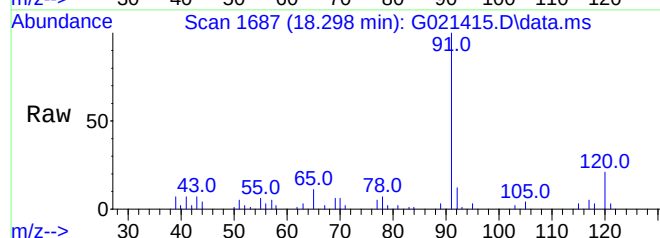
Tgt Ion: 105 Resp: 7527
Ion Ratio Lower Upper
105 100
120 25.8 6.0 46.0





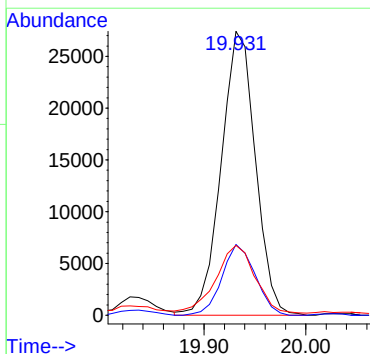
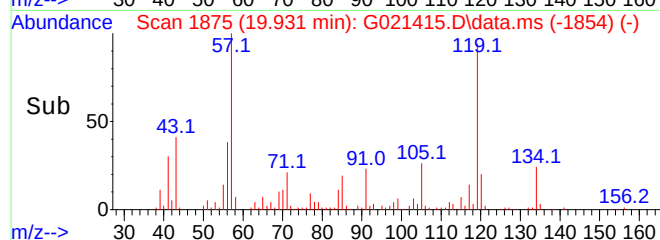
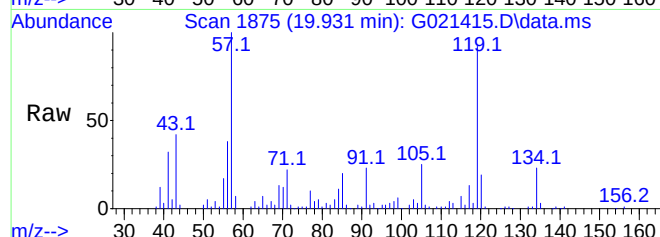
#12
 PROPYLBENZENE
 Concen: 0.11 PPBV
 RT: 18.298 min Scan# 1687
 Delta R.T. -0.022 min
 Lab File: G021415.D
 Acq: 14 Feb 2012 9:33 pm

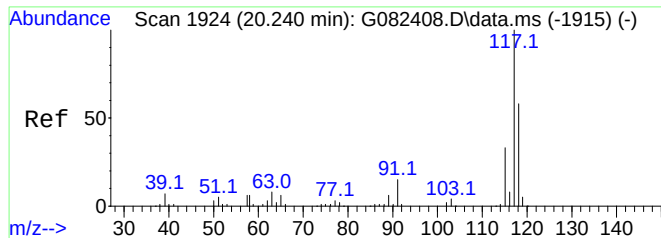
Tgt Ion:120 Resp: 4569
 Ion Ratio Lower Upper
 120 100
 91 474.0 434.5 474.5



#15
 P-CYMENE
 Concen: 0.43 PPBV
 RT: 19.931 min Scan# 1875
 Delta R.T. -0.022 min
 Lab File: G021415.D
 Acq: 14 Feb 2012 9:33 pm

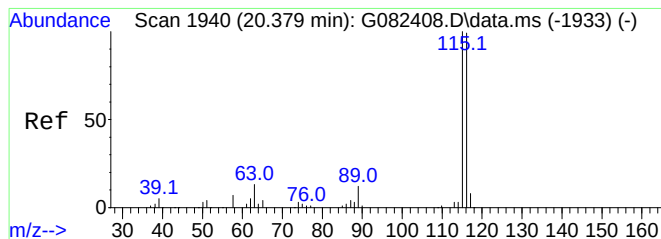
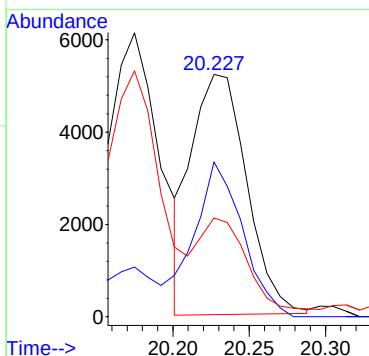
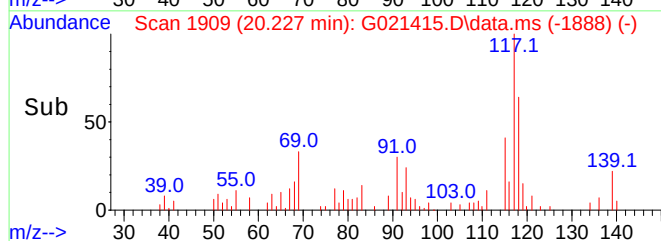
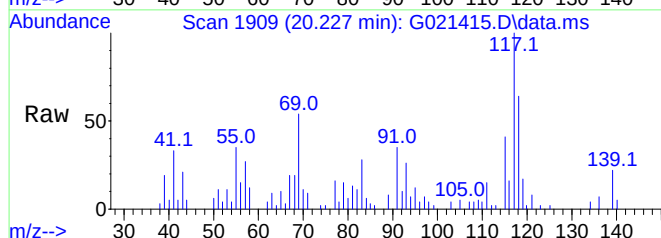
Tgt Ion:119 Resp: 64227
 Ion Ratio Lower Upper
 119 100
 134 24.3 5.8 45.8
 91 27.5 2.8 42.8





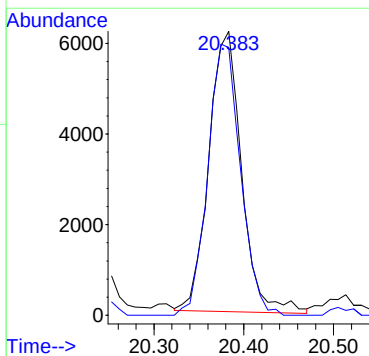
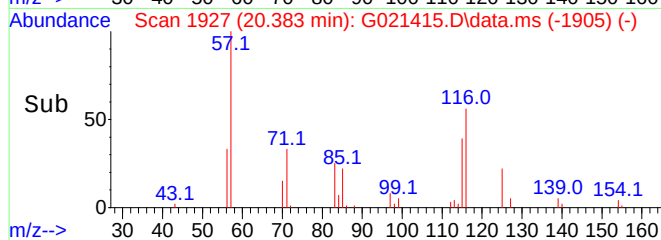
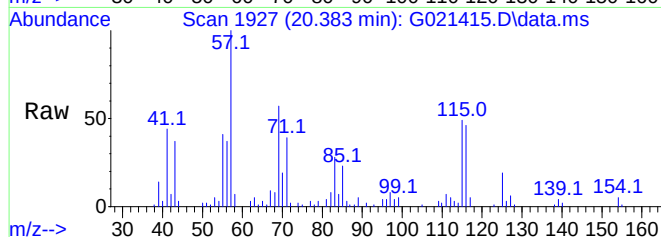
#16
INDANE
Concen: 0.11 PPBV
RT: 20.227 min Scan# 1909
Delta R.T. -0.022 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

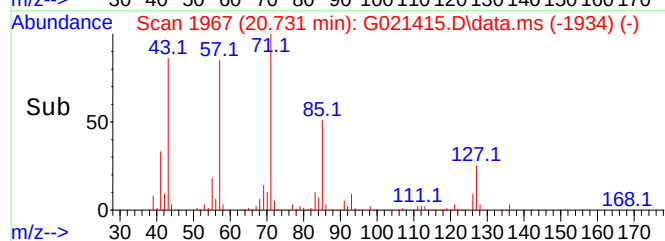
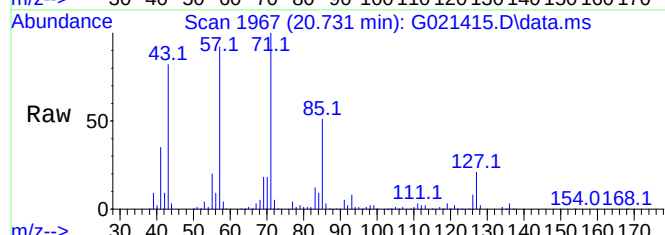
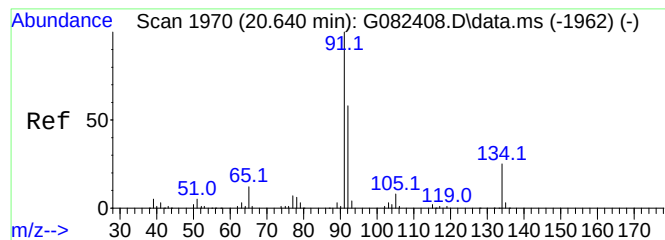
Tgt Ion:117 Resp: 13137
Ion Ratio Lower Upper
117 100
118 57.4 36.4 76.4
115 31.3 11.9 51.9



#17
INDENE
Concen: 0.17 PPBV
RT: 20.383 min Scan# 1927
Delta R.T. -0.013 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

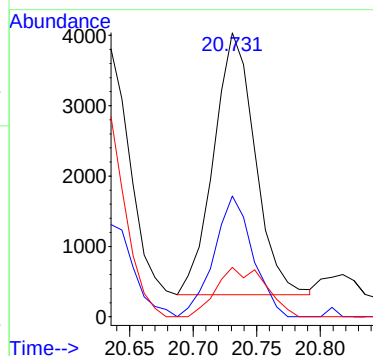
Tgt Ion:115 Resp: 15630
Ion Ratio Lower Upper
115 100
116 96.6 78.0 118.0





#18
BUTYLBENZENE
Concen: 0.06 PPBV
RT: 20.731 min Scan# 1967
Delta R.T. 0.082 min
Lab File: G021415.D
Acq: 14 Feb 2012 9:33 pm

Tgt Ion: 91 Resp: 8427
Ion Ratio Lower Upper
91 100
92 43.2 35.2 75.2
134 22.5 3.9 43.9



1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-OA01

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Ambient Air Laboratory ID: 12B0323-09 File ID: G021410.D
 Sampled: 02/08/12 15:15 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 17:45
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.16	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.068	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.44	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.56	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-OA01

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Ambient Air Laboratory ID: 12B0323-09 File ID: G021410.D
 Sampled: 02/08/12 15:15 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 17:45
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	2.9	0.17	1.4	
100-41-4	Ethylbenzene	0.037	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride		0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene		0.011	0.035	
108-88-3	Toluene	0.34	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.25	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.082	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene		0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane	0.11	0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-UPS-OA01

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Ambient Air	Laboratory ID:	12B0323-09	File ID:	G021410.D		
Sampled:	02/08/12 15:15	Prepared:	02/14/12 10:43	Analyzed:	02/14/12 17:45		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	0.13	0.018	0.070	
95-47-6	o-Xylene	0.042	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021410.D
 Acq On : 14 Feb 2012 5:45 pm
 Sample : 12B0323-09 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:39:56 2012

Vial: 2
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	276609	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	874251	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	790928	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	451200	8.38	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.75%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	4.549	85	43027	0.794	PPBV	100
4) CHLOROMETHANE	4.703	50	9830	0.631	PPBV	100
10) ACROLEIN	5.894	56	362	0.056	PPBV	83
11) ACETONE	6.033	43	70908	2.636	PPBV	84
12) TRICHLOROFLUOROMETHANE	6.163	101	15278	0.354	PPBV	98
13) ETHANOL	5.595	45	23255	4.108	PPBV	97
15) METHYLENE CHLORIDE	6.823	49	13725	0.455	PPBV	# 77
16) FREON 113	7.084	101	5709	0.117	PPBV	93
21) IPA	6.302	45	13179	0.466	PPBV	# 56
22) 2-BUTANONE(MEK)	8.273	43	7680	0.141	PPBV	97
25) HEXANE	8.855	41	12065	0.426	PPBV	90
32) BENZENE	10.338	78	24786	0.229	PPBV	95
33) CARBON TETRACHLORIDE	10.488	117	5033	0.097	PPBV	100
40) HEPTANE	11.720	57	2585	0.079	PPBV	90
46) TOLUENE	13.380	91	58285	0.489	PPBV	98
52) ETHYLBENZENE	15.960	91	7900	0.053	PPBV	97
53) M/P-XYLENE	16.178	91	22298	0.187	PPBV	98
56) O-XYLENE	16.786	91	7120	0.060	PPBV	99

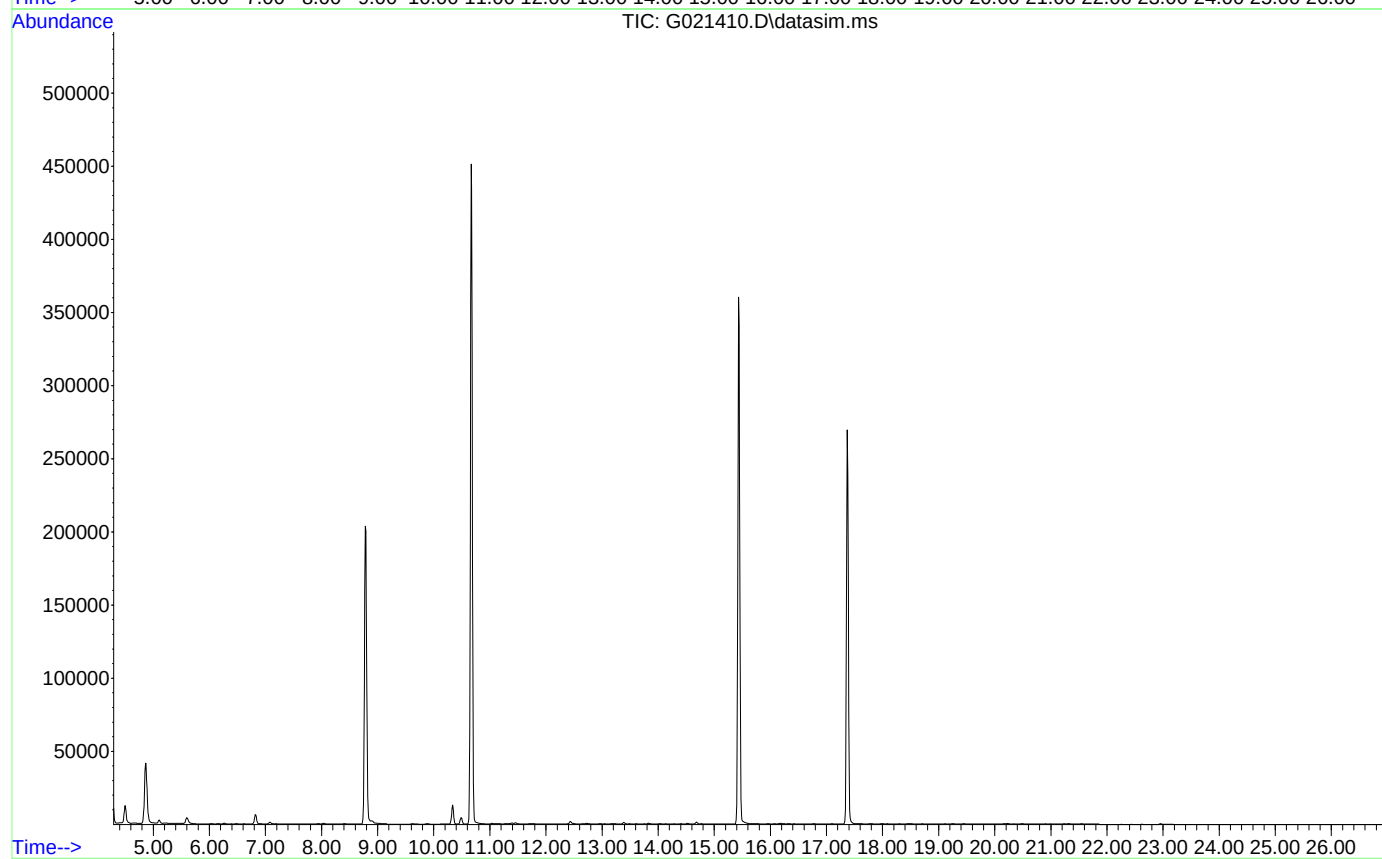
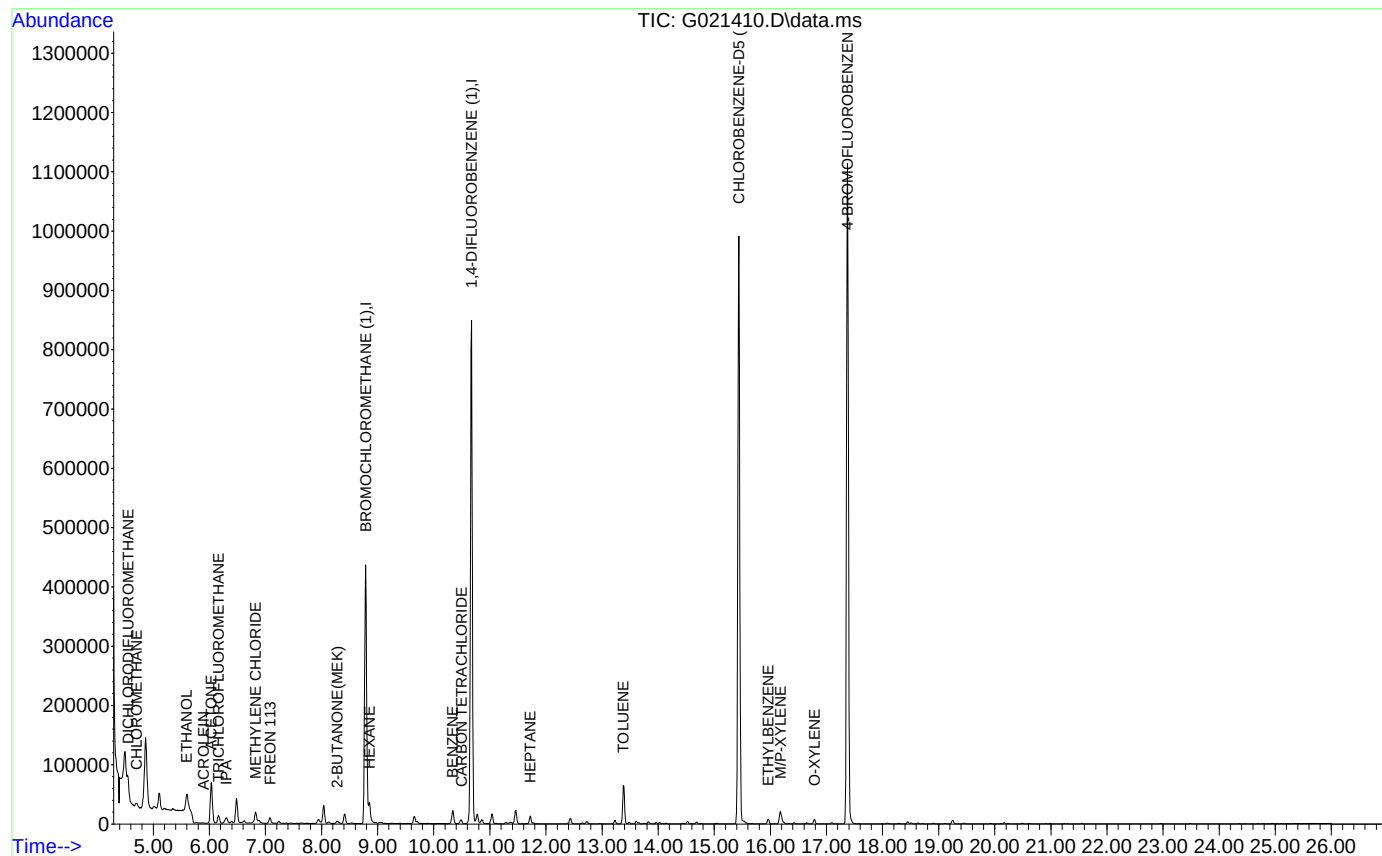
(#) = qualifier out of range (m) = manual integration (+) = signals summed

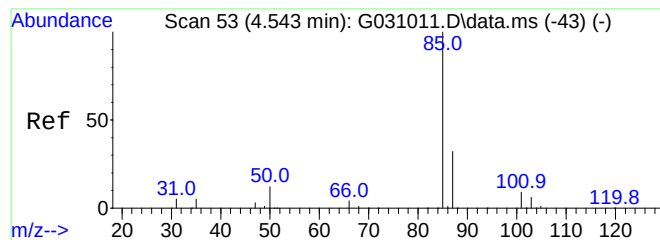
Data File : C:\msdchem\1\data\G021412\G021410.D
Acq On : 14 Feb 2012 5:45 pm
Sample : 12B0323-09 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:39:56 2012

Vial: 2
Operator: WSD
Inst : SYSG
Multiplr: 1.00

270

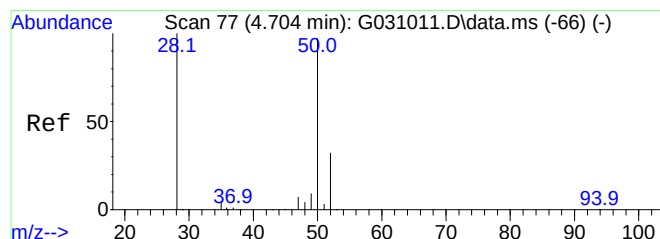
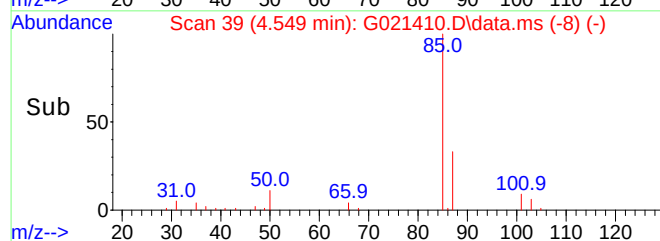
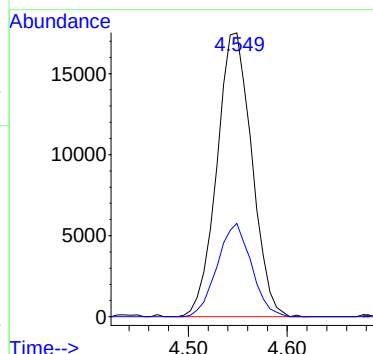
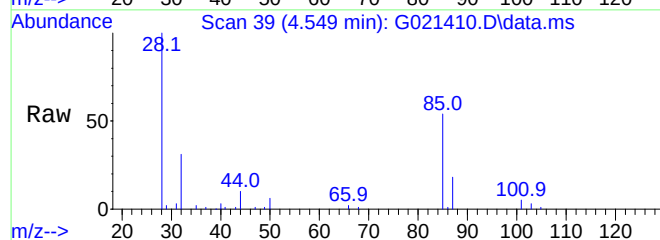
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





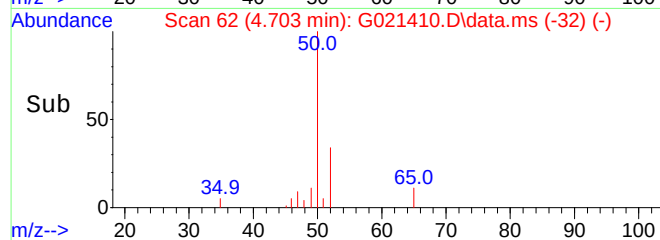
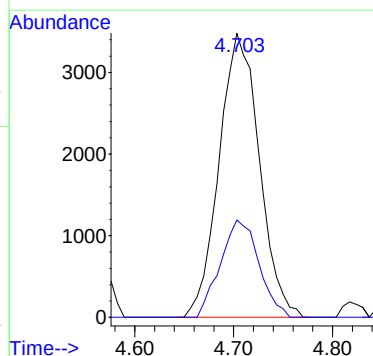
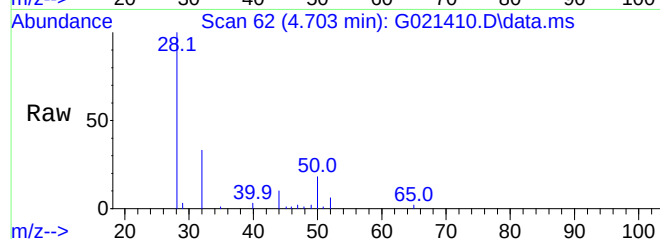
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.79 PPBV
 RT: 4.549 min Scan# 39
 Delta R.T. 0.006 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

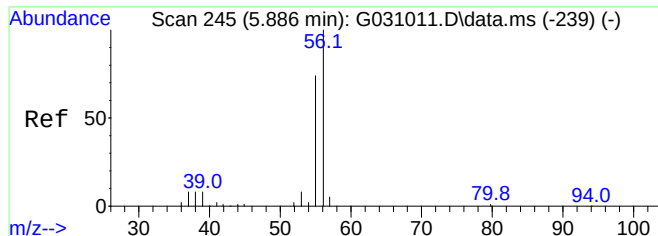
Tgt Ion: 85 Resp: 43027
 Ion Ratio Lower Upper
 85 100
 87 32.1 12.1 52.1



#4
 CHLOROMETHANE
 Concen: 0.63 PPBV
 RT: 4.703 min Scan# 62
 Delta R.T. -0.000 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

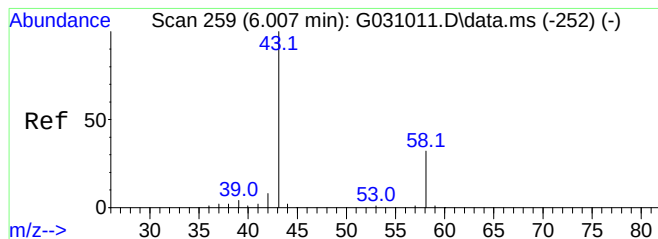
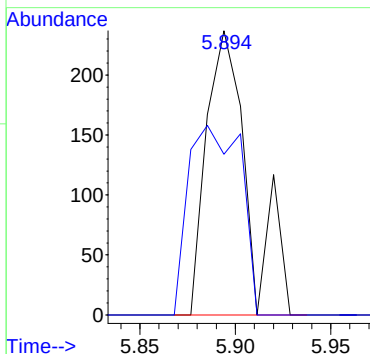
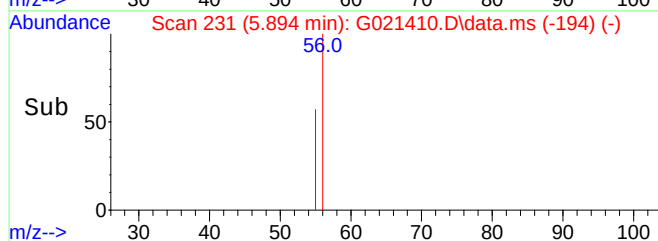
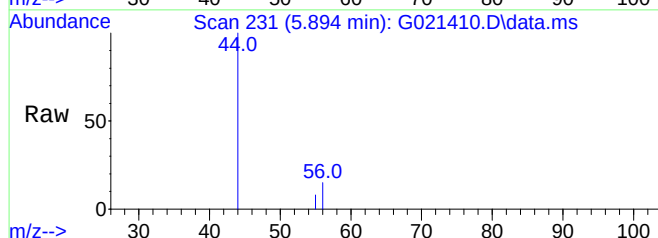
Tgt Ion: 50 Resp: 9830
 Ion Ratio Lower Upper
 50 100
 52 32.8 12.8 52.8





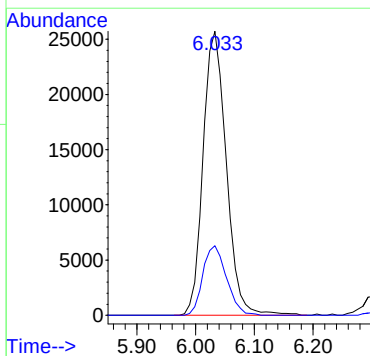
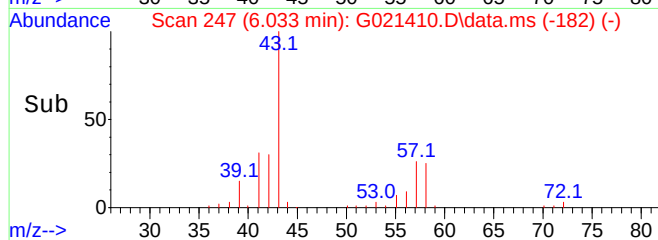
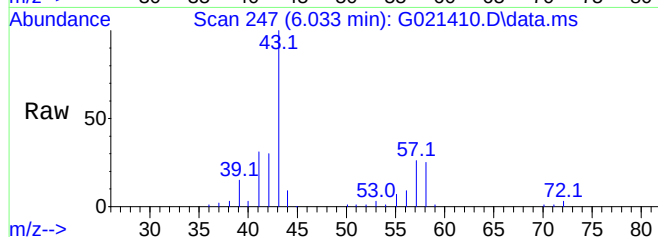
#10
ACROLEIN
Concen: 0.06 PPBV
RT: 5.894 min Scan# 231
Delta R.T. 0.009 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

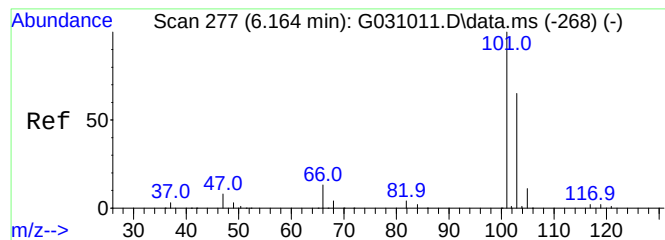
Tgt Ion: 56 Resp: 362
Ion Ratio Lower Upper
56 100
55 83.7 56.1 84.1



#11
ACETONE
Concen: 2.64 PPBV
RT: 6.033 min Scan# 247
Delta R.T. 0.026 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

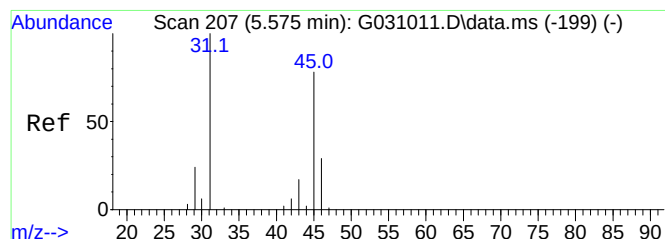
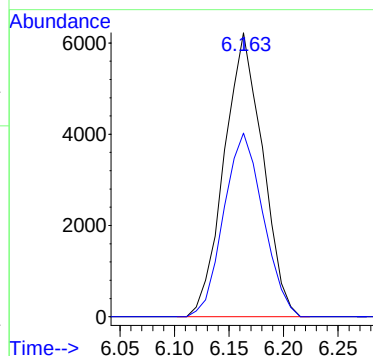
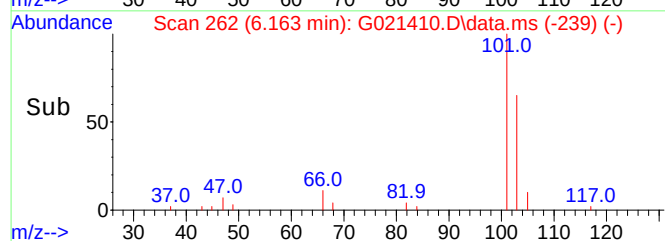
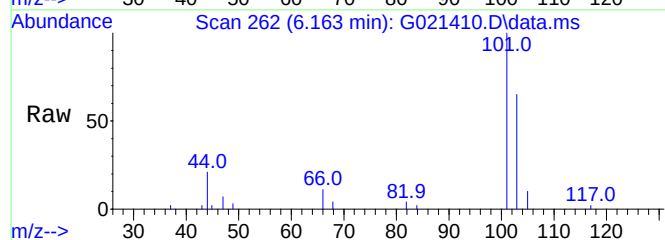
Tgt Ion: 43 Resp: 70908
Ion Ratio Lower Upper
43 100
58 24.9 13.9 53.9





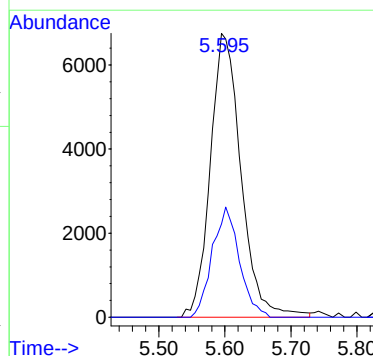
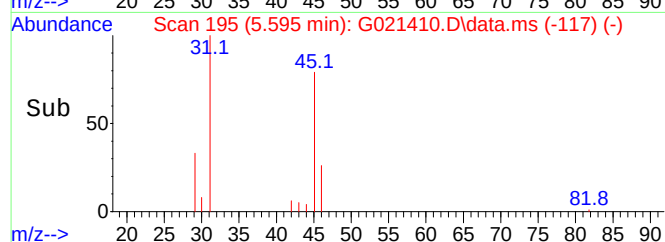
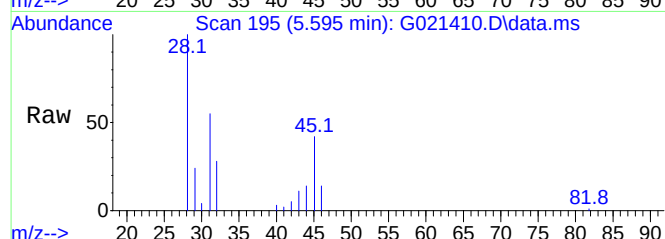
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.35 PPBV
 RT: 6.163 min Scan# 262
 Delta R.T. -0.000 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

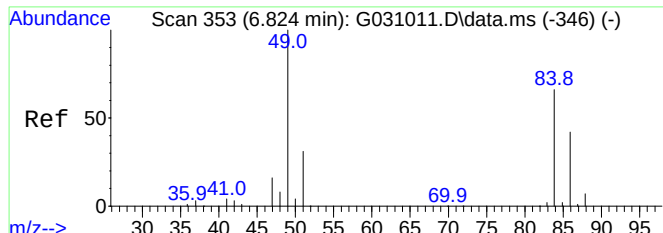
Tgt Ion: 101 Resp: 15278
 Ion Ratio Lower Upper
 101 100
 103 66.3 44.8 84.8



#13
 ETHANOL
 Concen: 4.11 PPBV
 RT: 5.595 min Scan# 195
 Delta R.T. 0.021 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

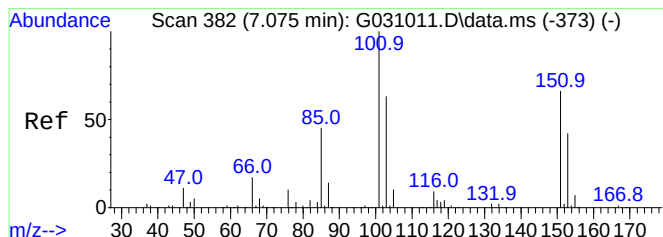
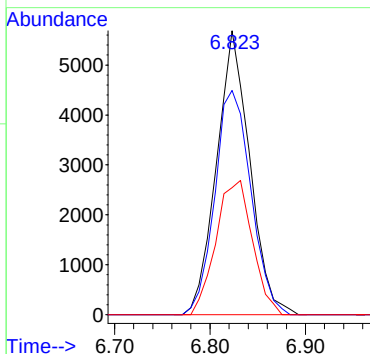
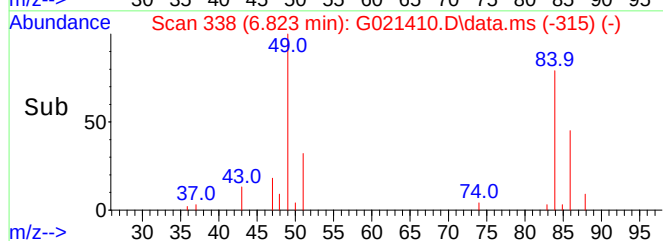
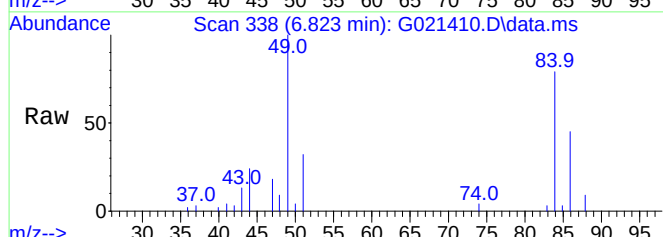
Tgt Ion: 45 Resp: 23255
 Ion Ratio Lower Upper
 45 100
 46 32.0 14.0 54.0





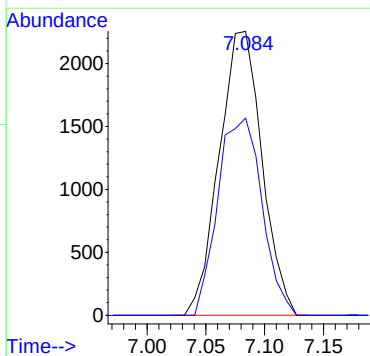
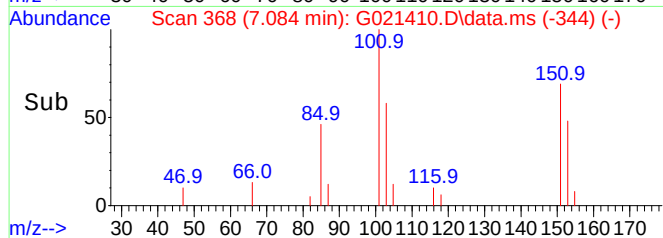
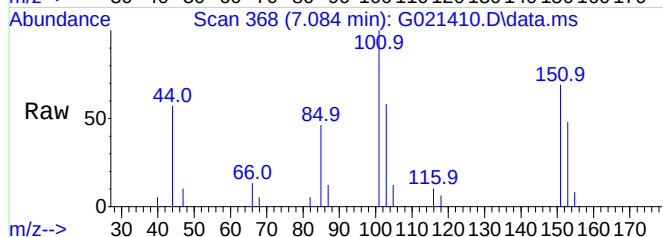
#15
METHYLENE CHLORIDE
Concen: 0.46 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

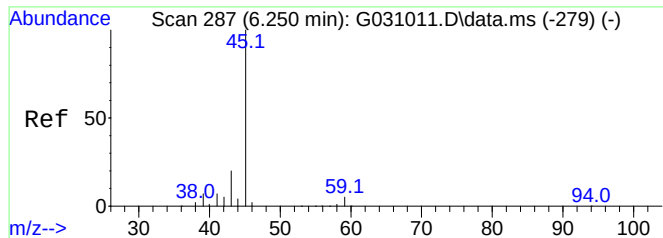
Tgt Ion: 49 Resp: 13725
Ion Ratio Lower Upper
49 100
84 86.0 45.2 85.2#
86 51.9 21.4 61.4



#16
FREON 113
Concen: 0.12 PPBV
RT: 7.084 min Scan# 368
Delta R.T. 0.008 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

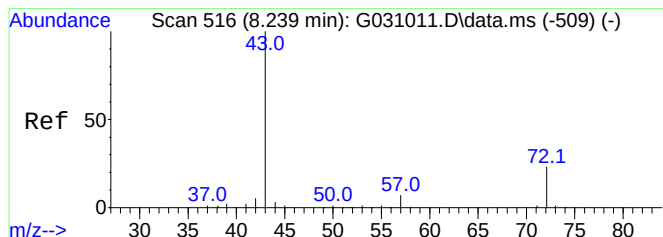
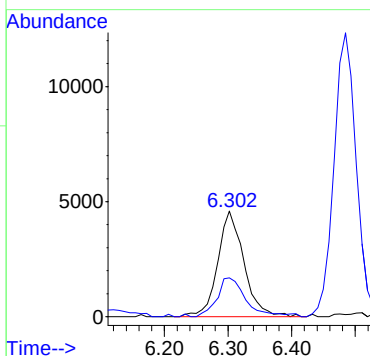
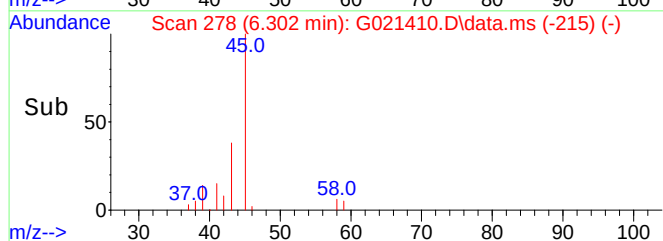
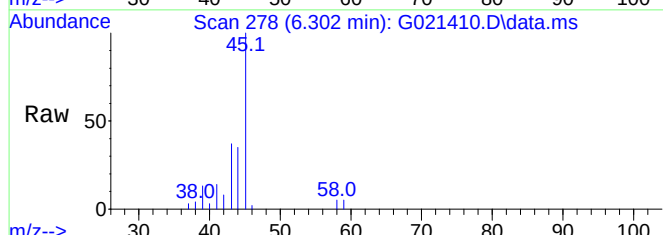
Tgt Ion: 101 Resp: 5709
Ion Ratio Lower Upper
101 100
151 71.5 46.3 86.3





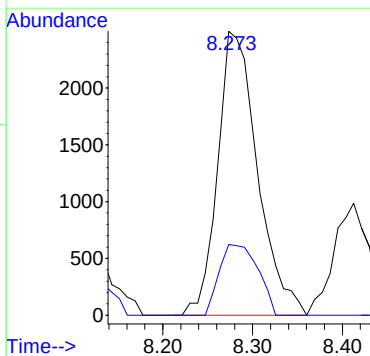
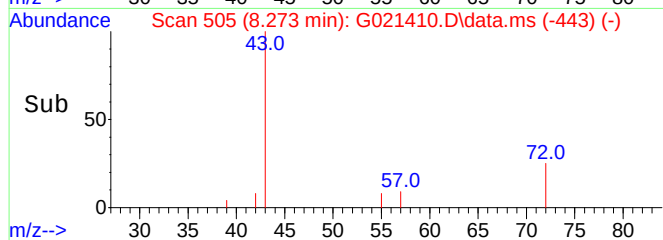
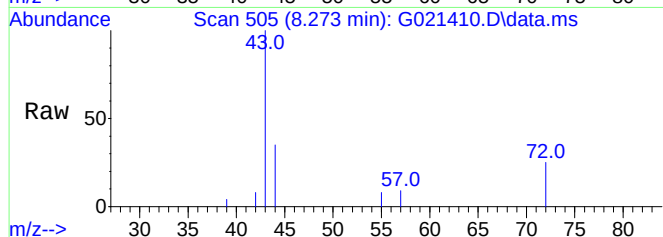
#21
IPA
Concen: 0.47 PPBV
RT: 6.302 min Scan# 278
Delta R.T. 0.052 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

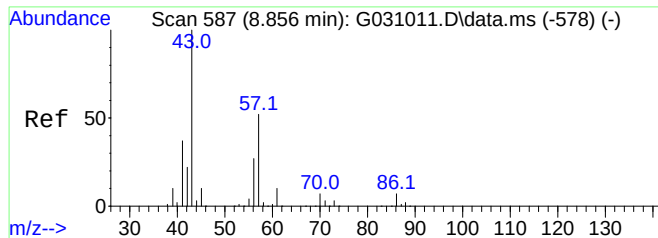
Tgt Ion: 45 Resp: 13179
Ion Ratio Lower Upper
45 100
43 40.9 0.6 40.6#



#22
2-BUTANONE(MEK)
Concen: 0.14 PPBV
RT: 8.273 min Scan# 505
Delta R.T. 0.034 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

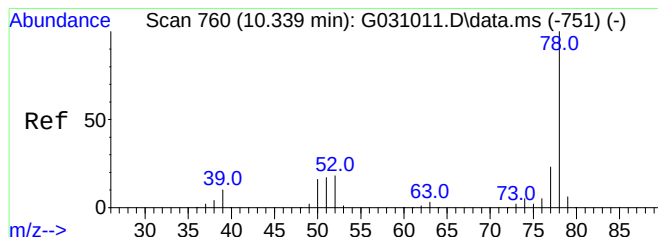
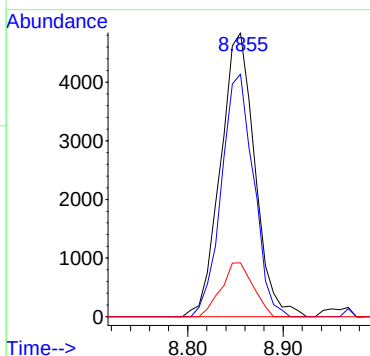
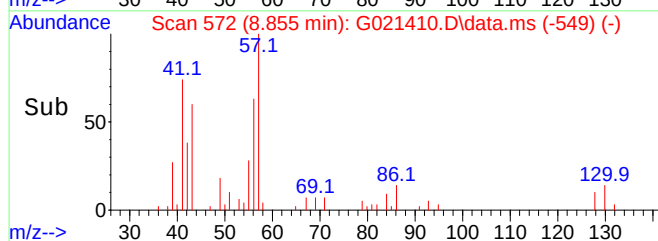
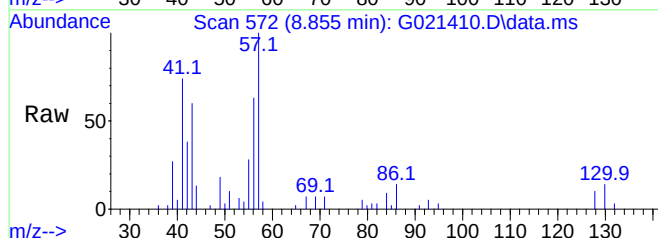
Tgt Ion: 43 Resp: 7680
Ion Ratio Lower Upper
43 100
72 24.2 2.6 42.6





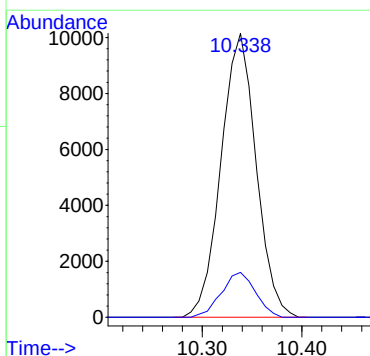
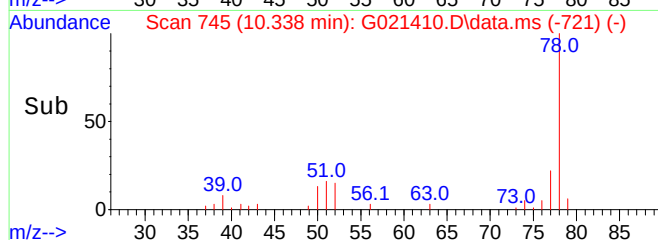
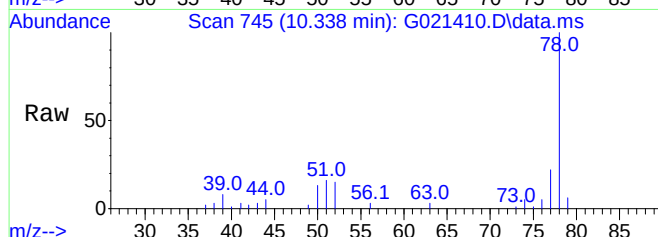
#25
HEXANE
Concen: 0.43 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.000 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

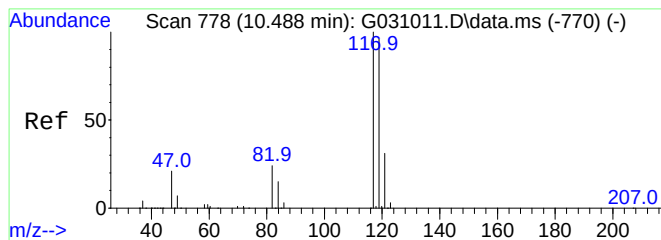
Tgt Ion: 41 Resp: 12065
Ion Ratio Lower Upper
41 100
56 80.3 50.8 90.8
86 17.6 9.6 29.6



#32
BENZENE
Concen: 0.23 PPBV
RT: 10.338 min Scan# 745
Delta R.T. -0.000 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

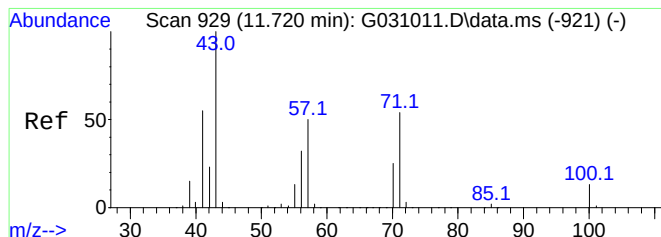
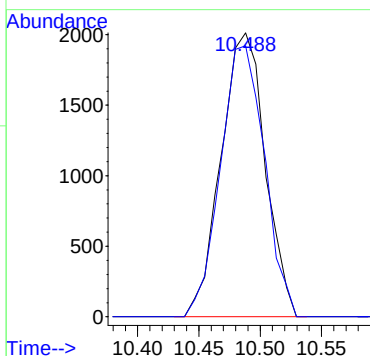
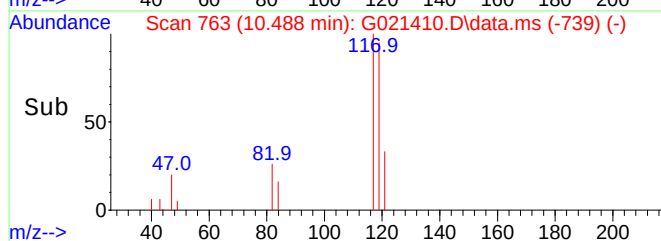
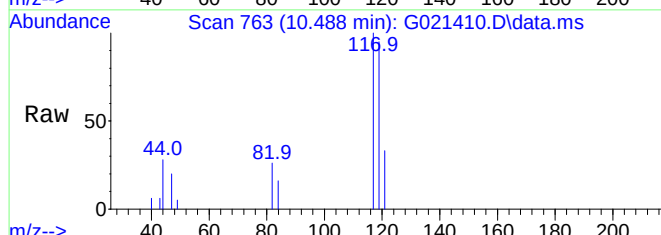
Tgt Ion: 78 Resp: 24786
Ion Ratio Lower Upper
78 100
51 15.4 0.0 37.6





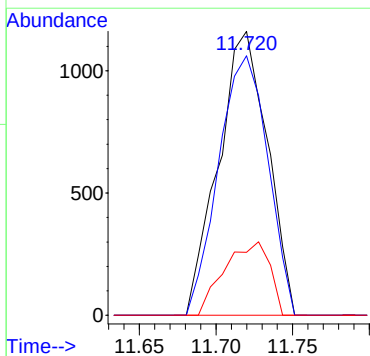
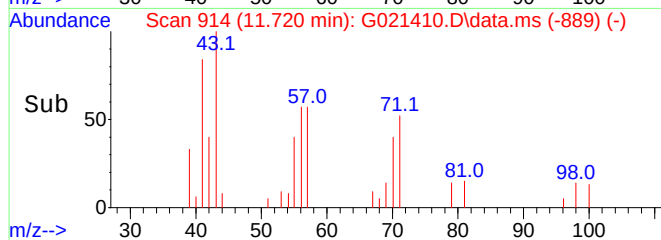
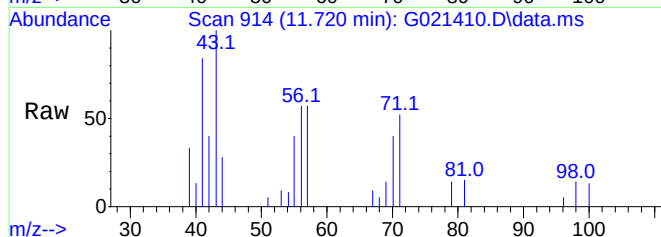
#33
 CARBON TETRACHLORIDE
 Concen: 0.10 PPBV
 RT: 10.488 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

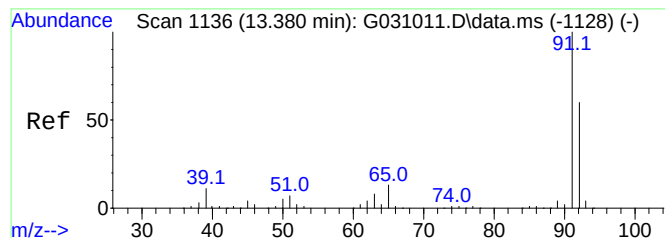
Tgt Ion: 117 Resp: 5033
 Ion Ratio Lower Upper
 117 100
 119 95.3 75.4 115.4



#40
 HEPTANE
 Concen: 0.08 PPBV
 RT: 11.720 min Scan# 914
 Delta R.T. -0.000 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

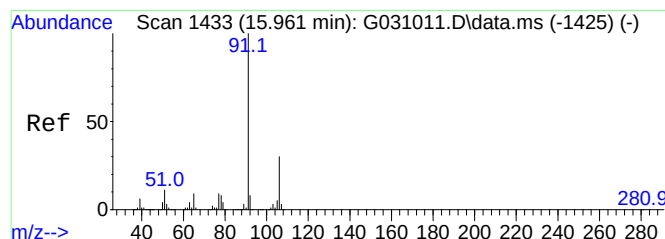
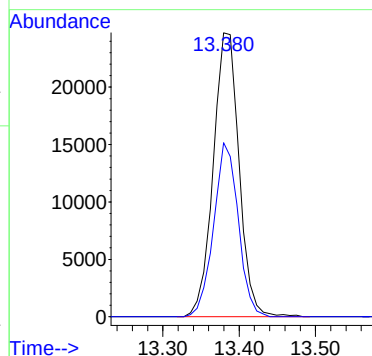
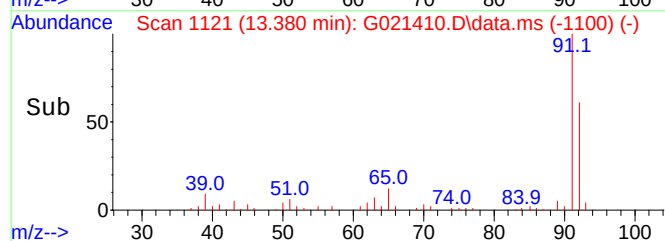
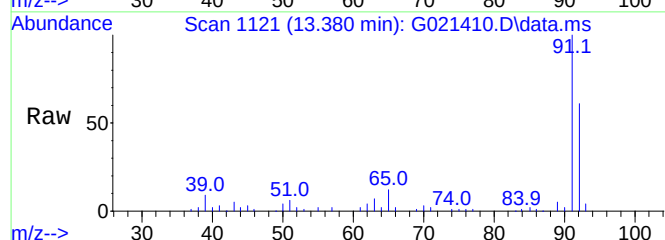
Tgt Ion: 57 Resp: 2585
 Ion Ratio Lower Upper
 57 100
 71 91.8 83.8 123.8
 100 23.8 5.4 45.4





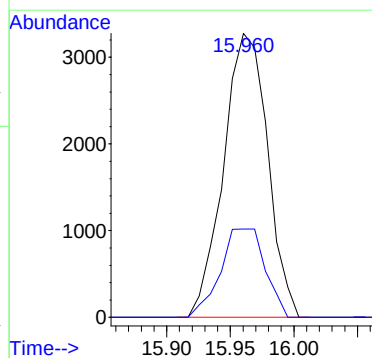
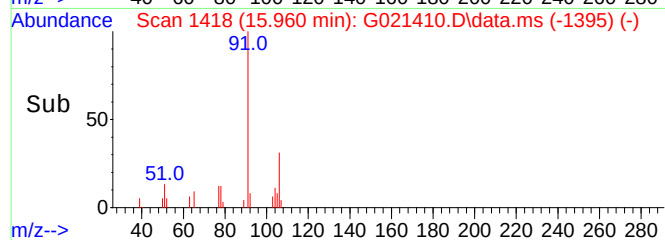
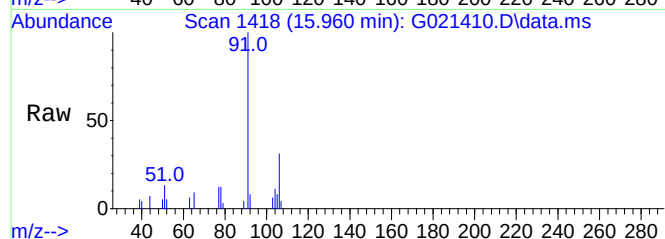
#46
 TOLUENE
 Concen: 0.49 PPBV
 RT: 13.380 min Scan# 1121
 Delta R.T. -0.000 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

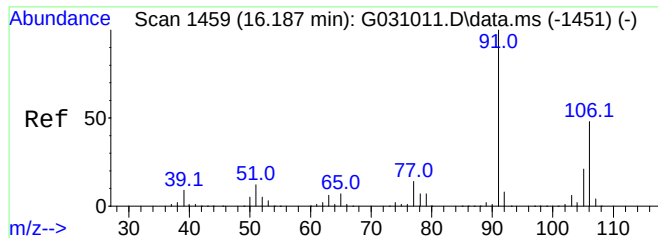
Tgt Ion: 91 Resp: 58285
 Ion Ratio Lower Upper
 91 100
 92 58.3 39.7 79.7



#52
 ETHYLBENZENE
 Concen: 0.05 PPBV
 RT: 15.960 min Scan# 1418
 Delta R.T. -0.000 min
 Lab File: G021410.D
 Acq: 14 Feb 2012 5:45 pm

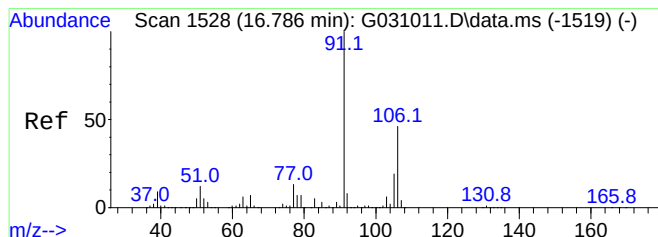
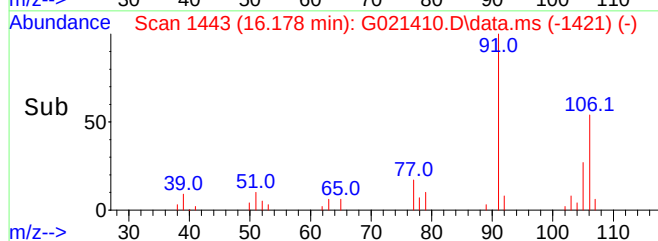
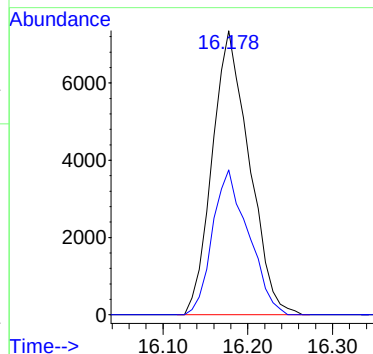
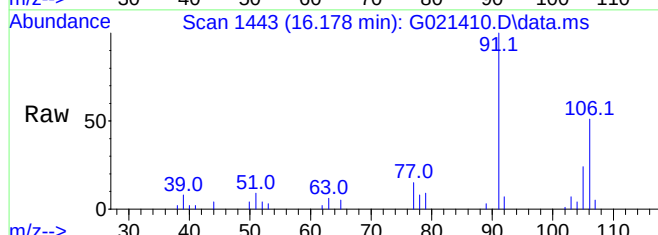
Tgt Ion: 91 Resp: 7900
 Ion Ratio Lower Upper
 91 100
 106 31.7 10.0 50.0





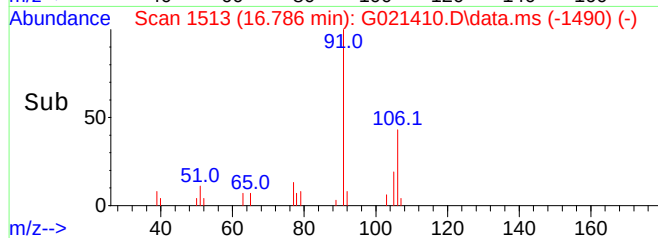
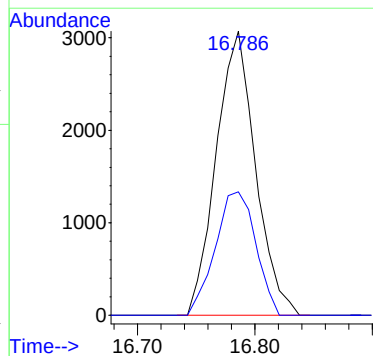
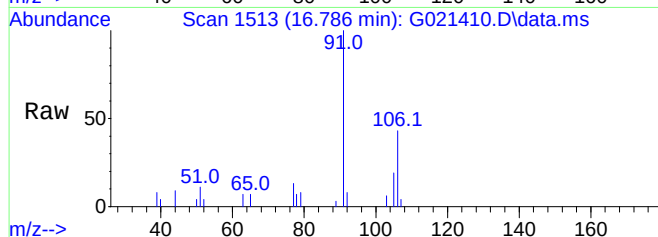
#53
M/P-XYLENE
Concen: 0.19 PPBV
RT: 16.178 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

Tgt Ion: 91 Resp: 22298
Ion Ratio Lower Upper
91 100
106 49.5 28.3 68.3



#56
O-XYLENE
Concen: 0.06 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.000 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

Tgt Ion: 91 Resp: 7120
Ion Ratio Lower Upper
91 100
106 44.8 25.5 65.5



Data File : C:\msdchem\1\data\G021412\G021410.D
 Acq On : 14 Feb 2012 5:45 pm
 Sample : 12B0323-09 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:11:26 2012

Vial: 2
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	874005	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	156430	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	579946	9.80	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	122.50%
Target Compounds						
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	19113	0.153	PPBV	Qvalue 83

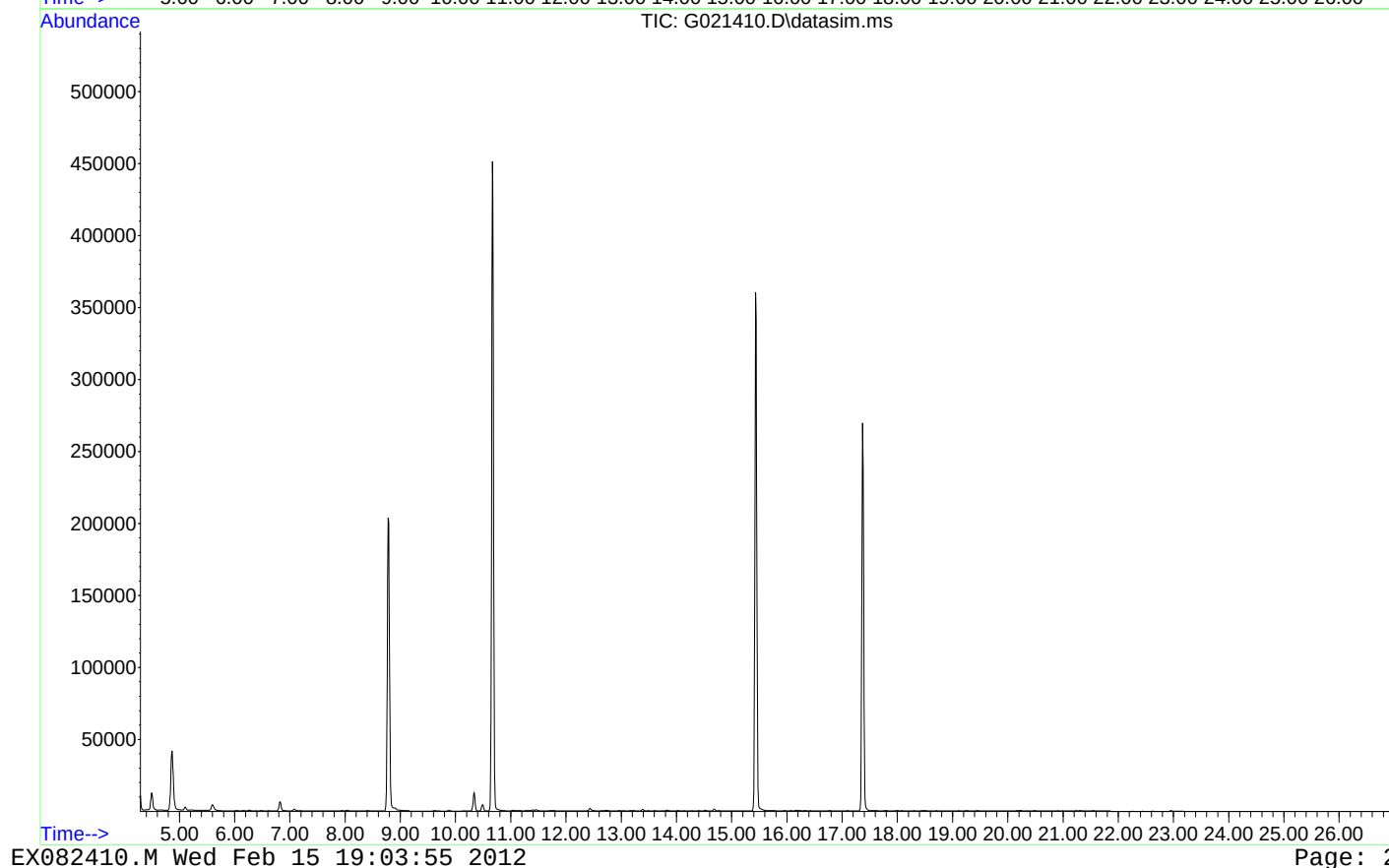
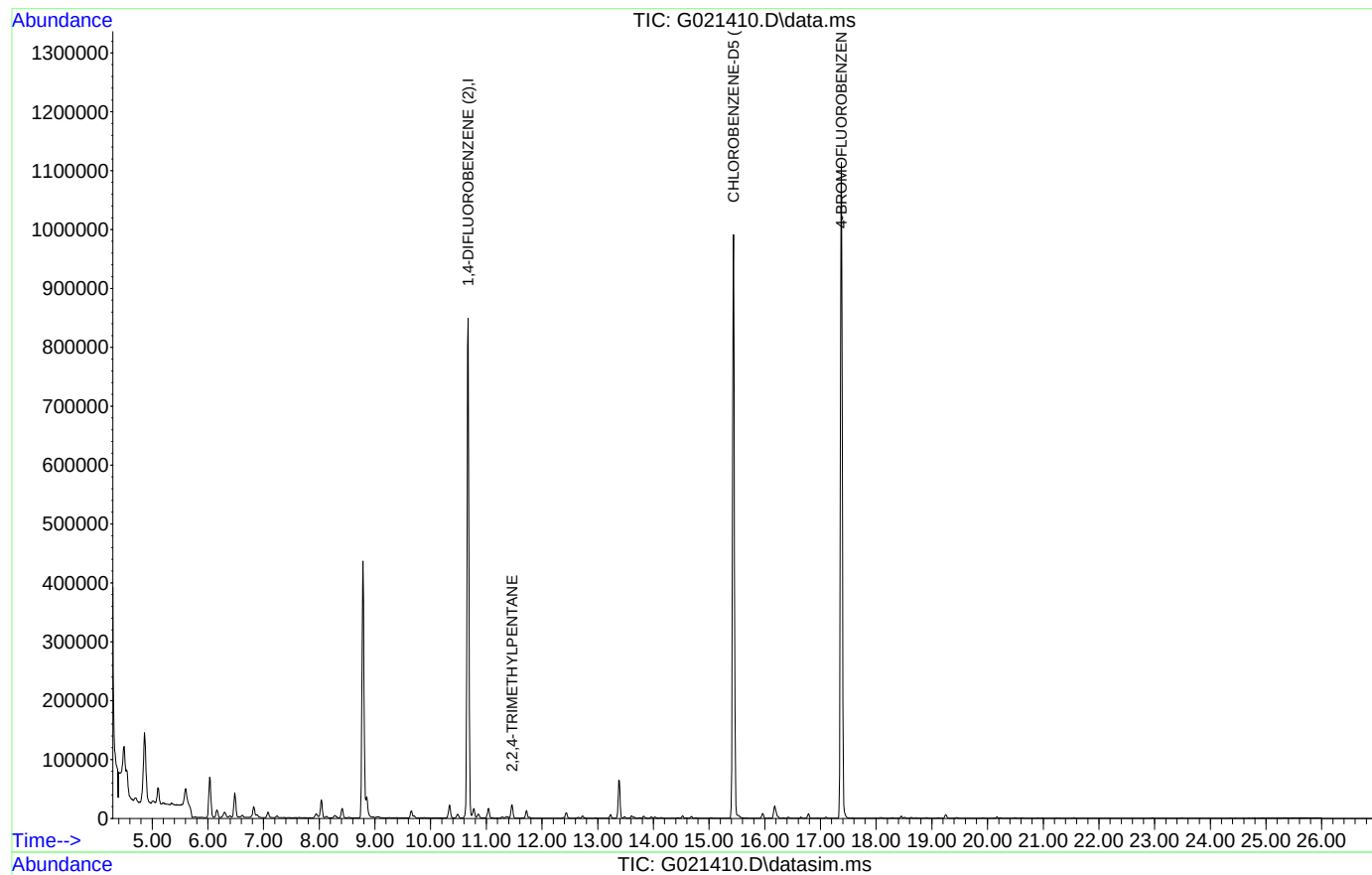
(#) = qualifier out of range (m) = manual integration (+) = signals summed

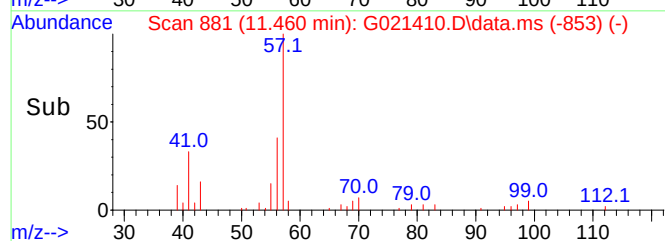
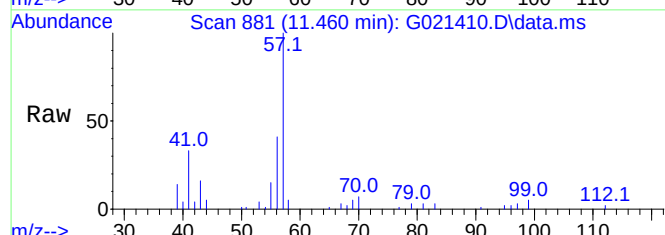
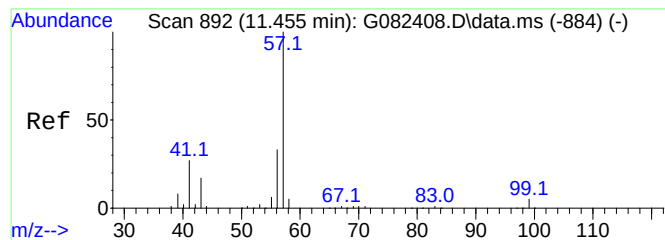
Data File : C:\msdchem\1\data\G021412\G021410.D
Acq On : 14 Feb 2012 5:45 pm
Sample : 12B0323-09 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:11:26 2012

Vial: 2
Operator: WSD
Inst : SYSG
Multiplr: 1.00

281

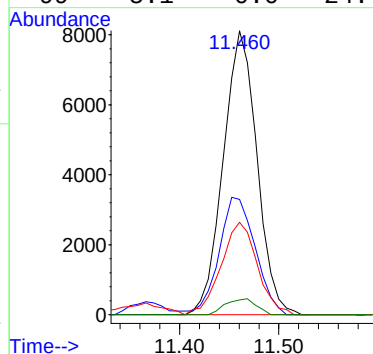
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.15 PPBV
RT: 11.460 min Scan# 881
Delta R.T. 0.021 min
Lab File: G021410.D
Acq: 14 Feb 2012 5:45 pm

Tgt Ion: 57 Resp: 19113
Ion Ratio Lower Upper
57 100
56 44.6 13.7 53.7
41 35.0 5.8 45.8
99 5.1 0.0 24.7



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-05

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-10 File ID: G021224.D
 Sampled: 02/08/12 16:41 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 16:59
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform		0.036	0.10	
74-87-3	Chloromethane		0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	75	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-05

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-10 File ID: G021224.D
 Sampled: 02/08/12 16:41 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 16:59
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol	91	0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.11	0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	0.39	0.030	0.10	
108-88-3	Toluene		0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane		0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene	3.3	0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene	0.73	0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-05

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-10	File ID:	G021224.D		
Sampled:	02/08/12 16:41	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 16:59		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	0.31	0.052	0.20	
95-47-6	o-Xylene	0.14	0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021224.D
 Acq On : 13 Feb 2012 4:59 pm
 Sample : 12B0323-10 1X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 10:59:11 2012

Vial: 10
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

286

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	300402	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	954523	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	864672	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	480938	8.17	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.13%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.542	85	2216889	37.654	PPBV	Qvalue 99
10) ACROLEIN	5.903	56	2036	0.289	PPBV	89
11) ACETONE	6.024	43	305876	10.470	PPBV	100
12) TRICHLOROFLUOROMETHANE	6.172	101	24118	0.514	PPBV	100
13) ETHANOL	5.595	45	278575	45.313	PPBV	94
15) METHYLENE CHLORIDE	6.840	49	10989	0.336	PPBV	81
17) CARBON DISULFIDE	7.118	76	8187	0.098	PPBV	# 79
21) IPA	6.311	45	19792	0.644	PPBV	69
22) 2-BUTANONE(MEK)	8.265	43	13887	0.235	PPBV	92
25) HEXANE	8.864	41	7065	0.230	PPBV	94
26) ETHYL ACETATE	8.873	61	1737	0.166	PPBV	98
41) MIBK	12.404	43	4862	0.055	PPBV	92
50) TETRACHLOROETHENE	14.683	166	11042	0.197	PPBV	95
53) M/P-XYLENE	16.186	91	20162	0.155	PPBV	100
56) O-XYLENE	16.786	91	8880	0.069	PPBV	95
59) 4-ETHYLTOLUENE	18.506	105	9191	0.054	PPBV	84
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	51786	0.366	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	230666	1.640	PPBV	96
67) NAPHTHALENE	22.946	128	97043	0.523	PPBV	99

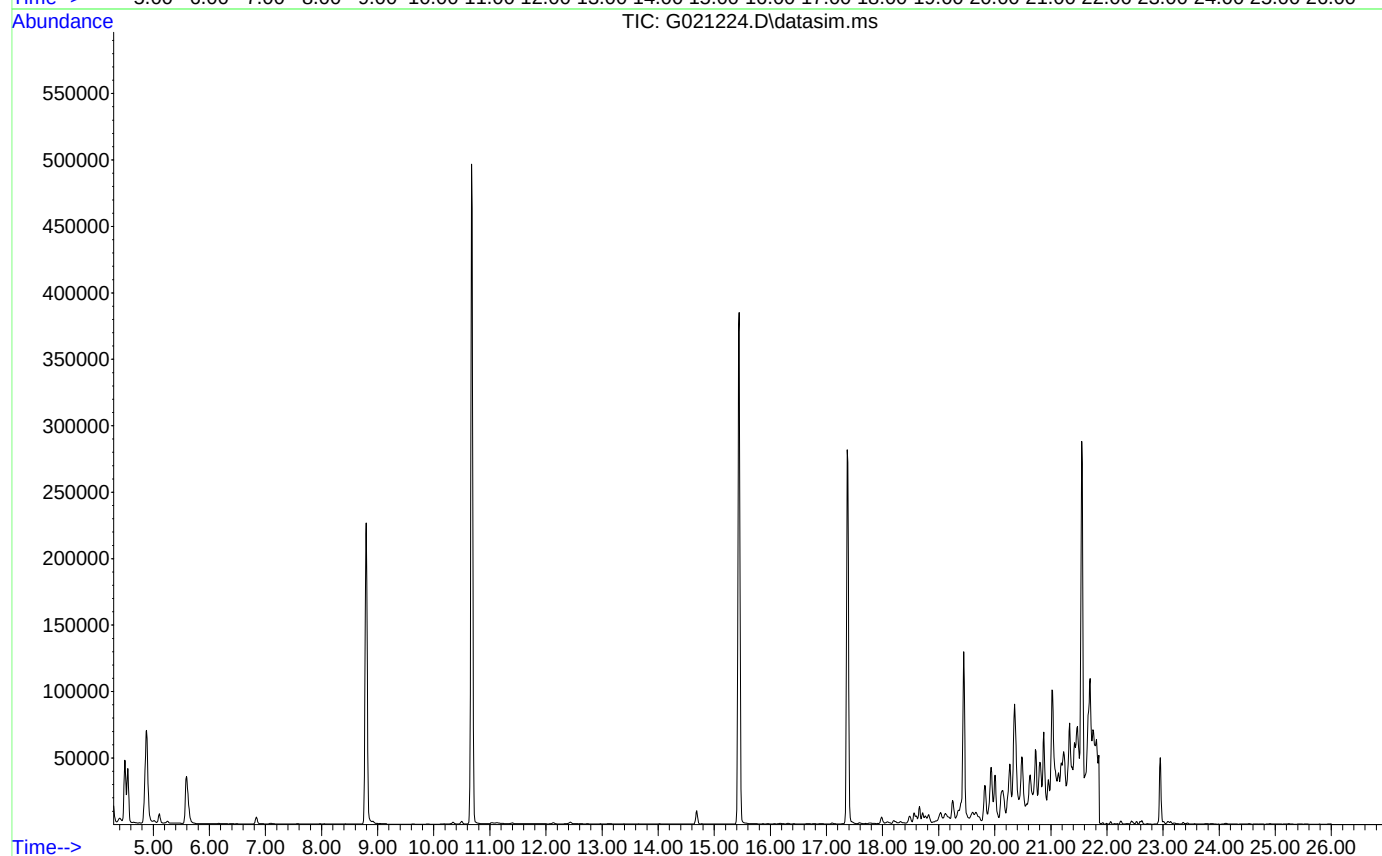
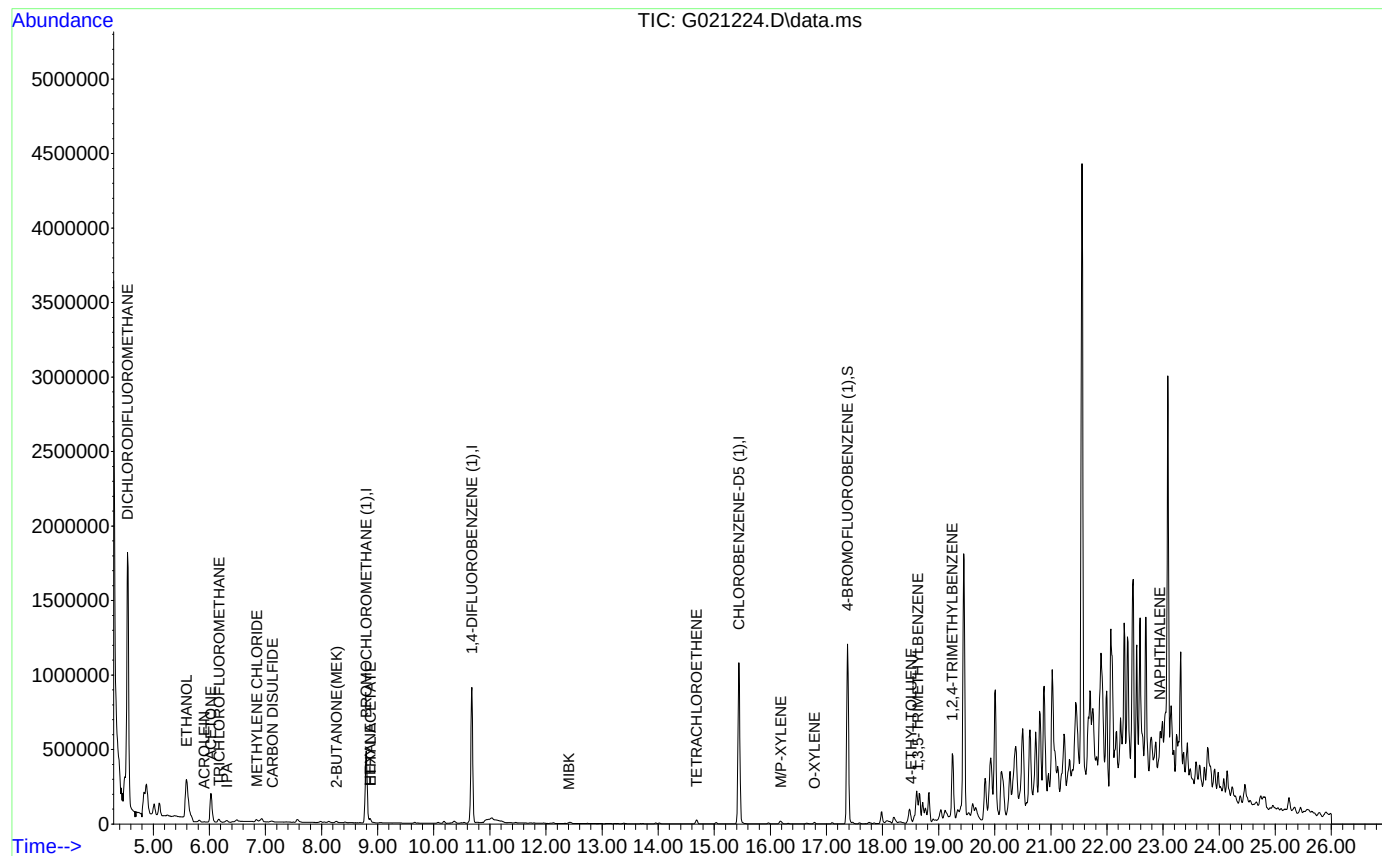
(#) = qualifier out of range (m) = manual integration (+) = signals summed

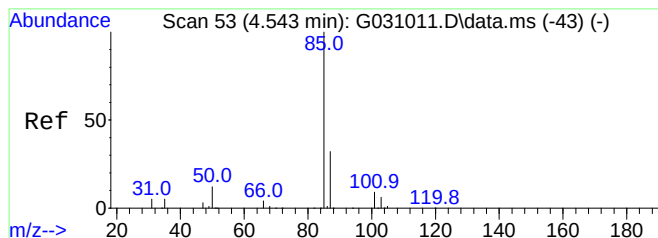
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Acq On : 13 Feb 2012 4:59 pm
Sample : 12B0323-10 1X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 10:59:11 2012

Vial: 10
Operator: TPH
Inst : SYSG
Multiplr: 1.00

287

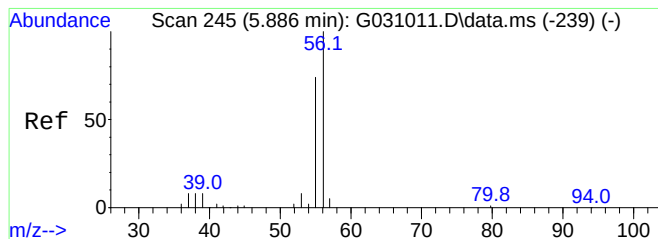
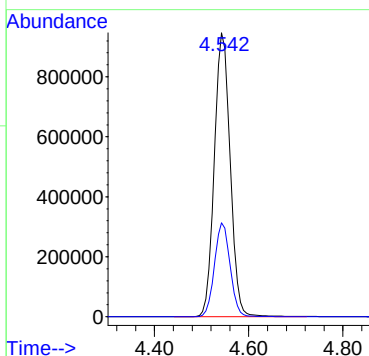
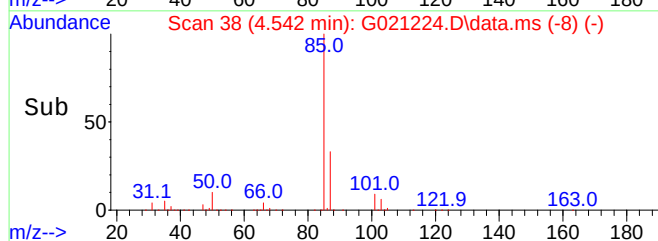
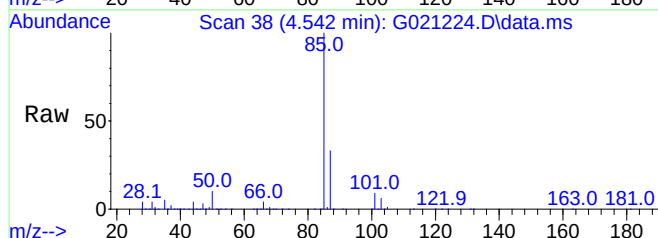
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





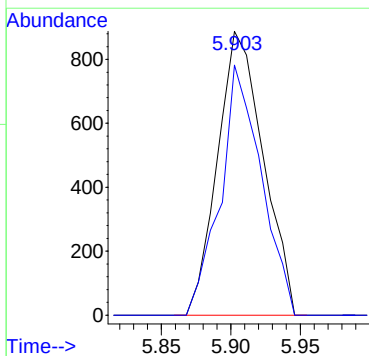
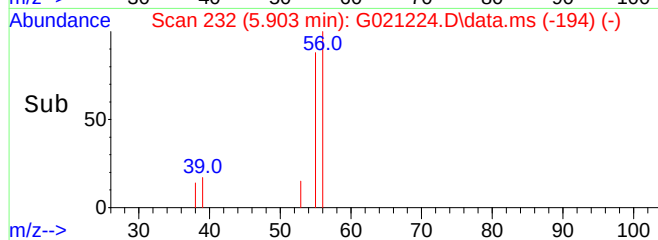
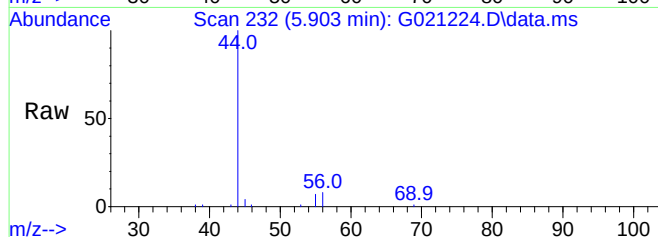
#3
 DICHLORODIFLUOROMETHANE
 Concen: 37.65 PPBV
 RT: 4.542 min Scan# 38
 Delta R.T. -0.000 min
 Lab File: G021224.D
 Acq: 13 Feb 2012 4:59 pm

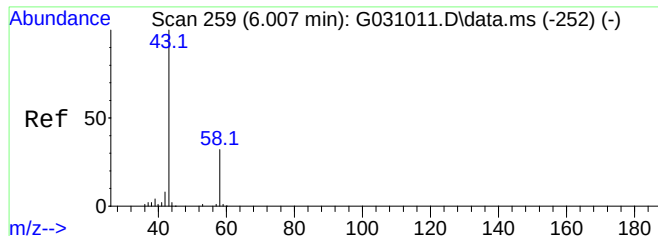
Tgt Ion: 85 Resp: 2216889
 Ion Ratio Lower Upper
 85 100
 87 32.6 12.1 52.1



#10
 ACROLEIN
 Concen: 0.29 PPBV
 RT: 5.903 min Scan# 232
 Delta R.T. 0.018 min
 Lab File: G021224.D
 Acq: 13 Feb 2012 4:59 pm

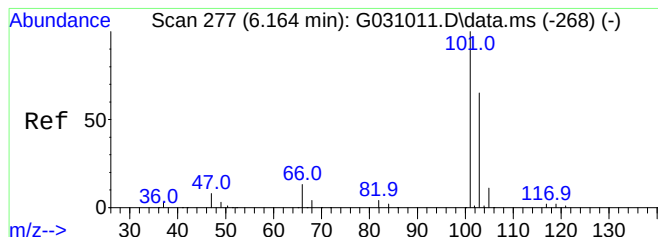
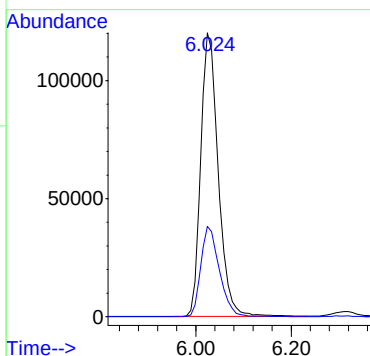
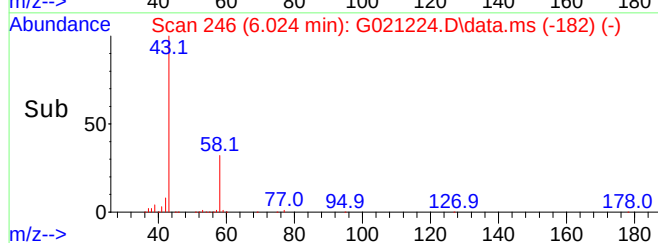
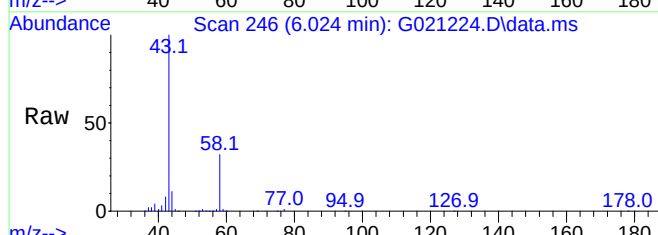
Tgt Ion: 56 Resp: 2036
 Ion Ratio Lower Upper
 56 100
 55 78.8 56.1 84.1





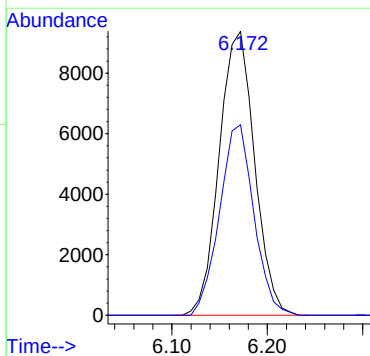
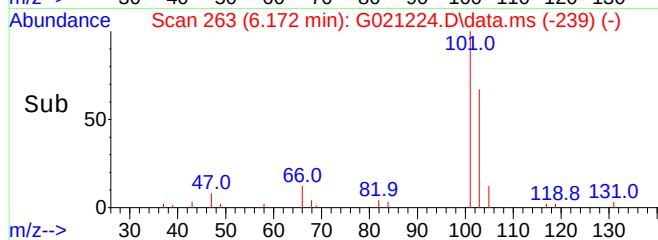
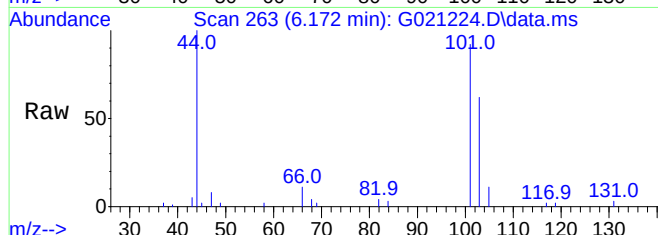
#11
ACETONE
Concen: 10.47 PPBV
RT: 6.024 min Scan# 246
Delta R.T. 0.017 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

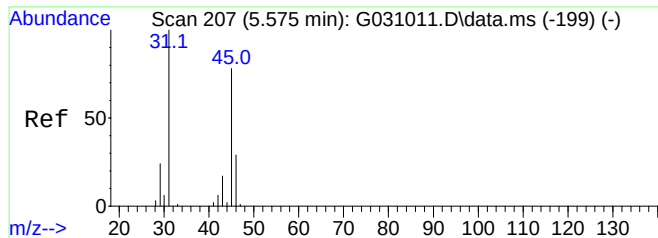
Tgt Ion: 43 Resp: 305876
Ion Ratio Lower Upper
43 100
58 33.9 13.9 53.9



#12
TRICHLOROFLUOROMETHANE
Concen: 0.51 PPBV
RT: 6.172 min Scan# 263
Delta R.T. 0.008 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

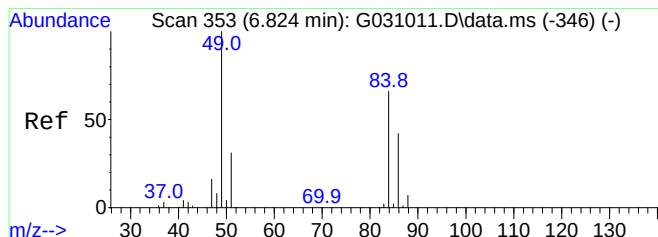
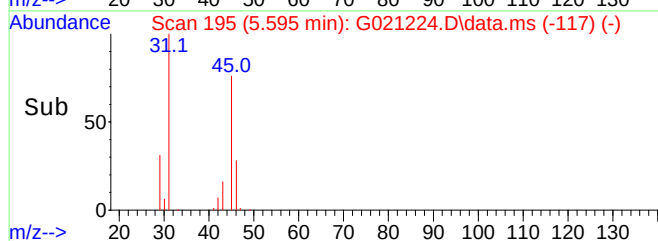
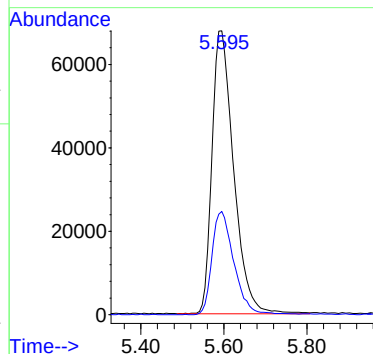
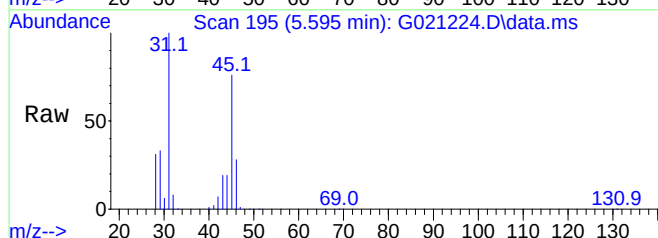
Tgt Ion: 101 Resp: 24118
Ion Ratio Lower Upper
101 100
103 65.2 44.8 84.8





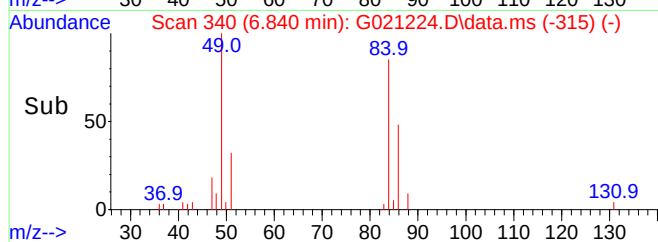
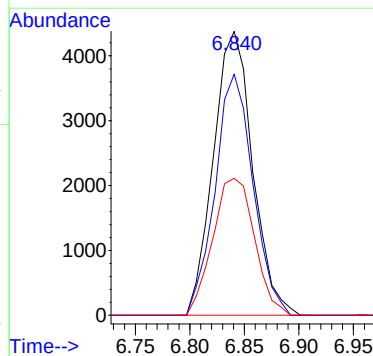
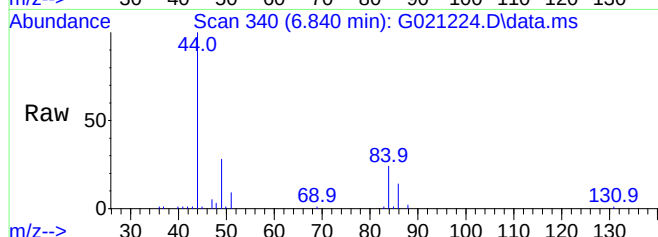
#13
ETHANOL
Concen: 45.31 PPBV
RT: 5.595 min Scan# 195
Delta R.T. 0.021 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

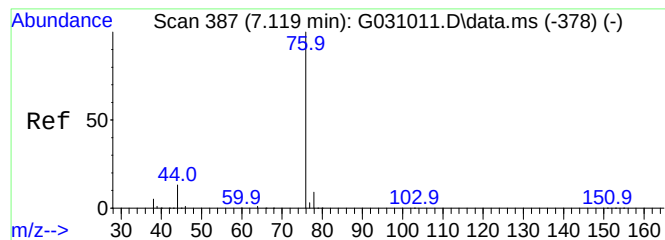
Tgt Ion: 45 Resp: 278575
Ion Ratio Lower Upper
45 100
46 37.3 14.0 54.0



#15
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 6.840 min Scan# 340
Delta R.T. 0.017 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

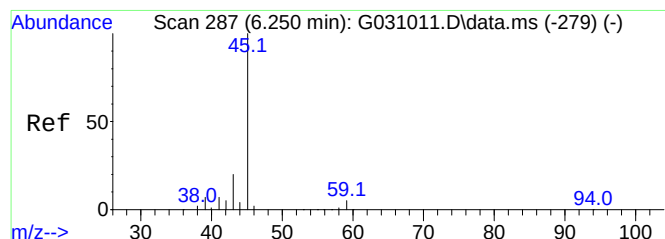
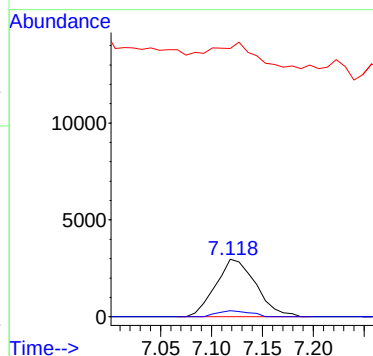
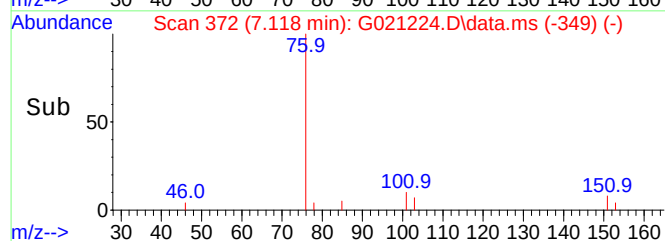
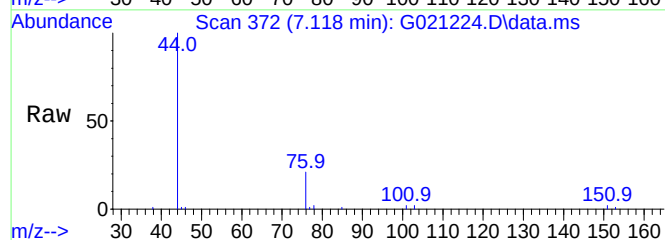
Tgt Ion: 49 Resp: 10989
Ion Ratio Lower Upper
49 100
84 82.1 45.2 85.2
86 51.3 21.4 61.4





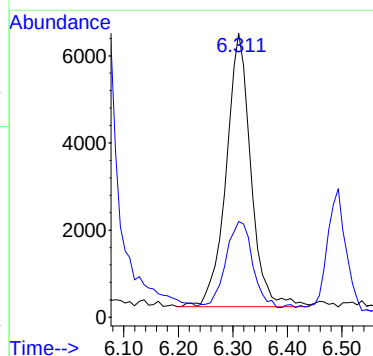
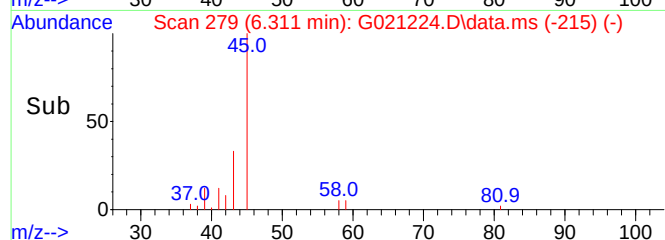
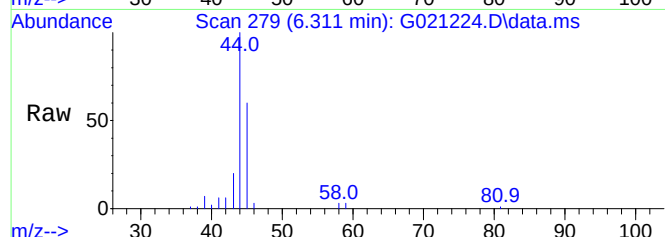
#17
CARBON DISULFIDE
Concen: 0.10 PPBV
RT: 7.118 min Scan# 372
Delta R.T. -0.000 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

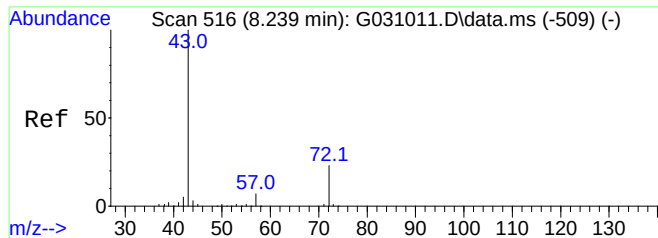
Tgt Ion: 76 Resp: 8187
Ion Ratio Lower Upper
76 100
78 8.6 0.0 30.7
44 0.0 0.0 33.4



#21
IPA
Concen: 0.64 PPBV
RT: 6.311 min Scan# 279
Delta R.T. 0.061 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

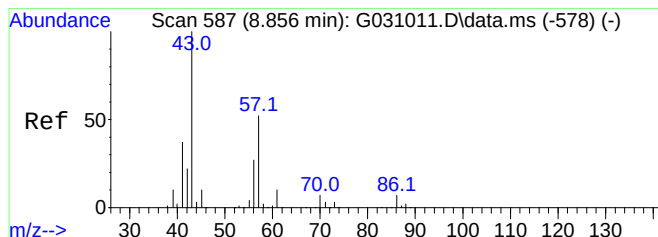
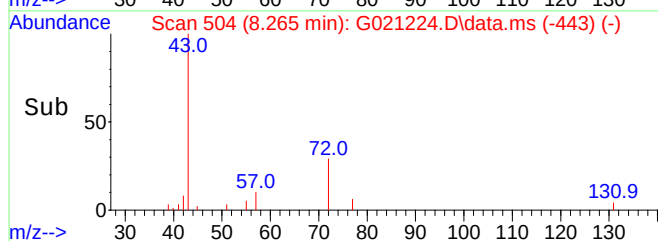
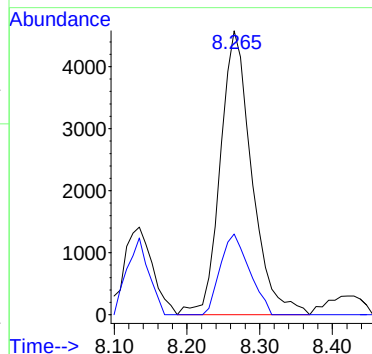
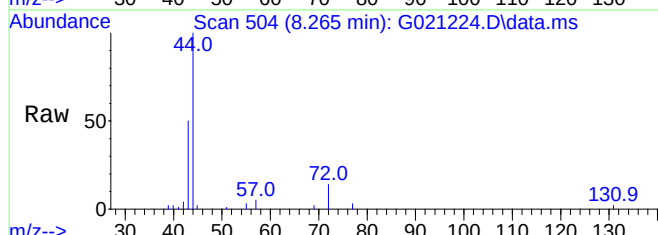
Tgt Ion: 45 Resp: 19792
Ion Ratio Lower Upper
45 100
43 34.9 0.6 40.6





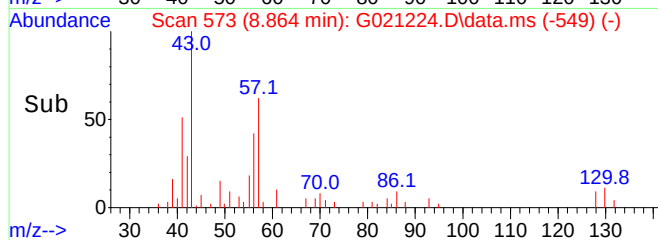
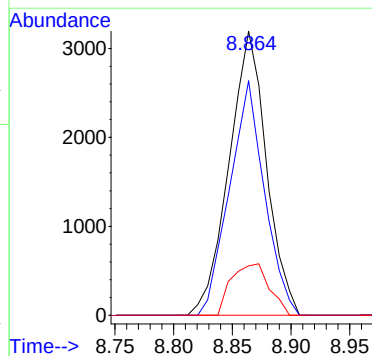
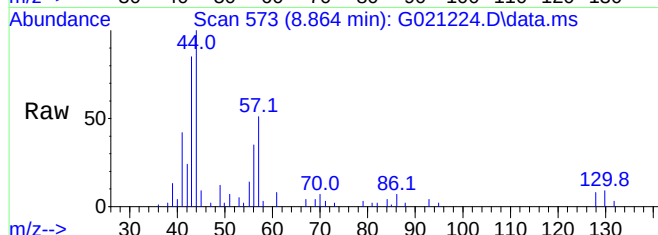
#22
2-BUTANONE (MEK)
Concen: 0.23 PPBV
RT: 8.265 min Scan# 504
Delta R.T. 0.026 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

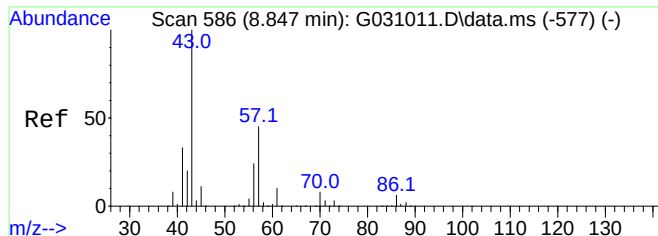
Tgt Ion: 43 Resp: 13887
Ion Ratio Lower Upper
43 100
72 26.2 2.6 42.6



#25
HEXANE
Concen: 0.23 PPBV
RT: 8.864 min Scan# 573
Delta R.T. 0.008 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

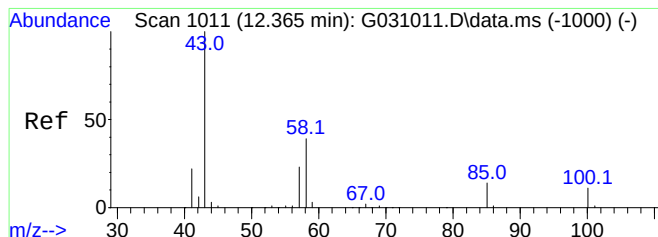
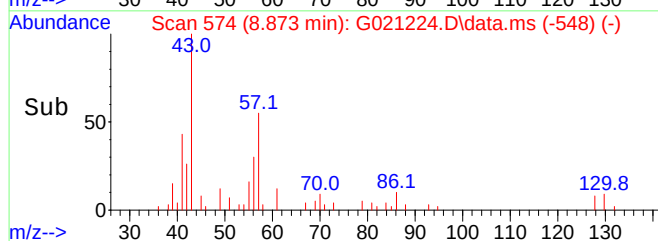
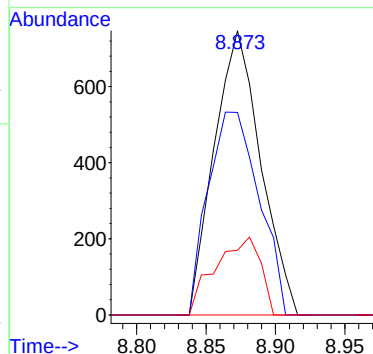
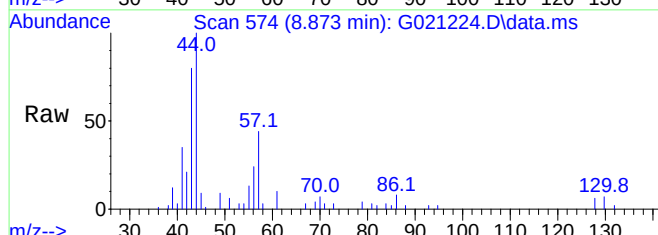
Tgt Ion: 41 Resp: 7065
Ion Ratio Lower Upper
41 100
56 76.9 50.8 90.8
86 18.3 9.6 29.6





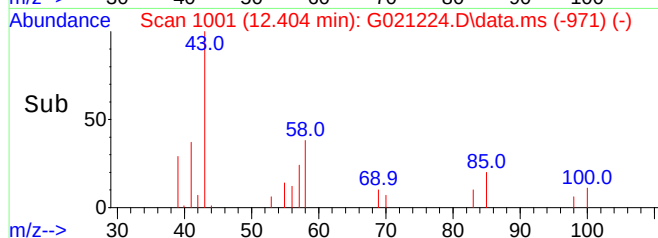
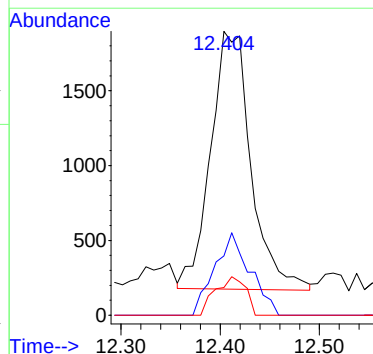
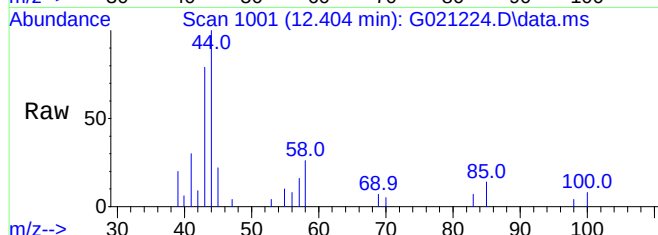
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ETHYL ACETATE
Concen: 0.17 PPBV
RT: 8.873 min Scan# 574
Delta R.T. 0.026 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

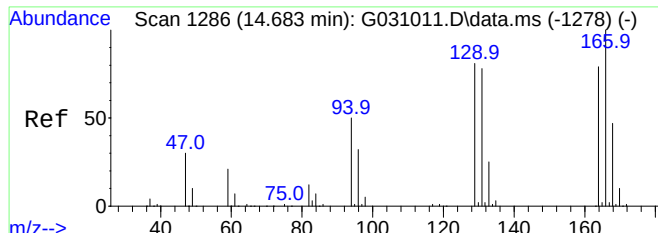
Tgt Ion: 61 Resp: 1737
Ion Ratio Lower Upper
61 100
70 78.3 58.2 98.2
88 26.7 3.0 43.0



#41
MIBK
Concen: 0.05 PPBV
RT: 12.404 min Scan# 1001
Delta R.T. 0.039 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

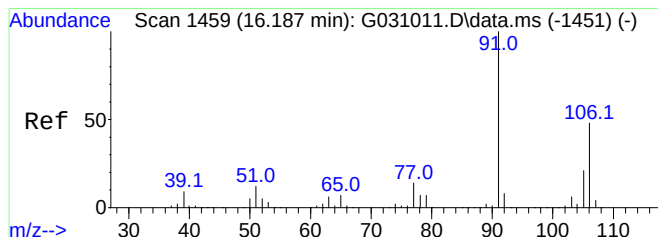
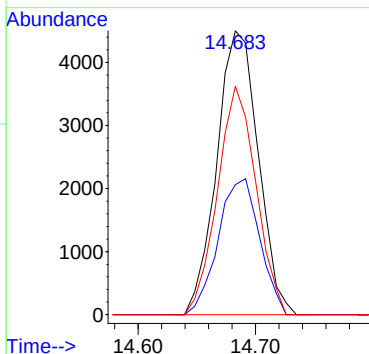
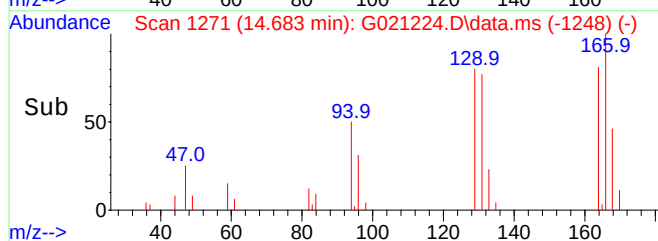
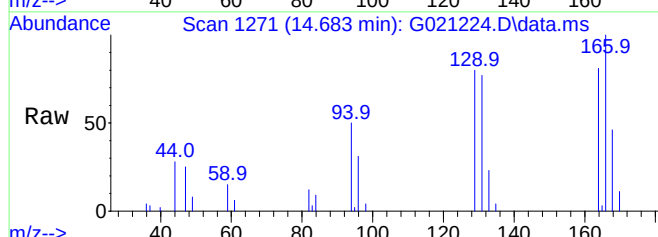
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Ion Ratio Lower Upper
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57 28.1 2.8 42.8
100 11.2 1.0 21.0





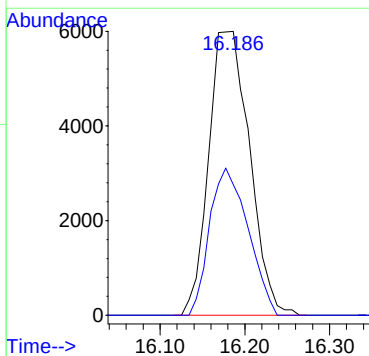
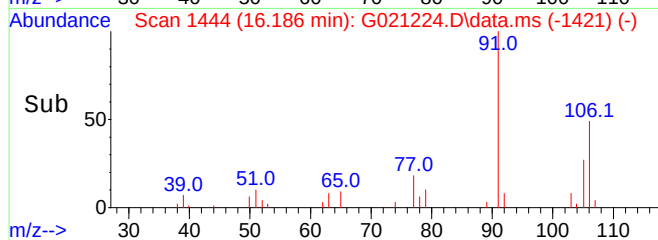
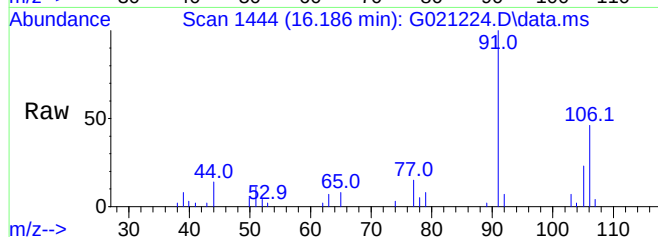
#50
TETRACHLOROETHENE
Concen: 0.20 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.000 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

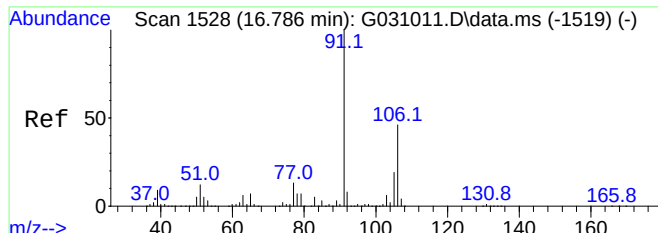
Tgt Ion: 166 Resp: 11042
Ion Ratio Lower Upper
166 100
168 47.9 27.0 67.0
129 74.8 60.6 100.6



#53
M/P-XYLENE
Concen: 0.16 PPBV
RT: 16.186 min Scan# 1444
Delta R.T. -0.000 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

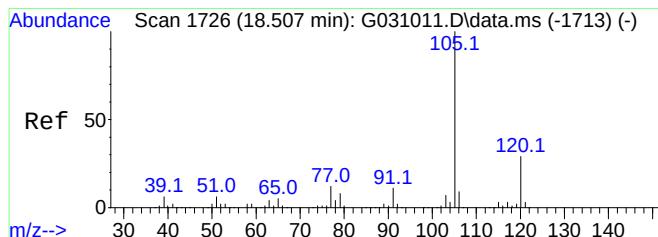
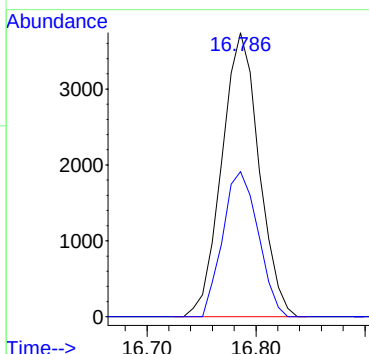
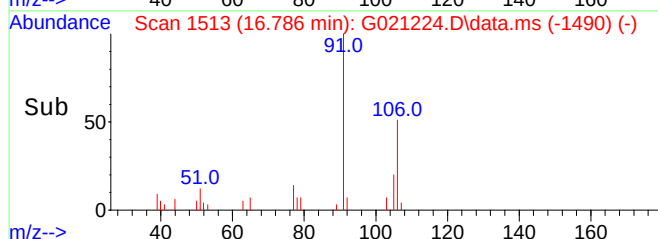
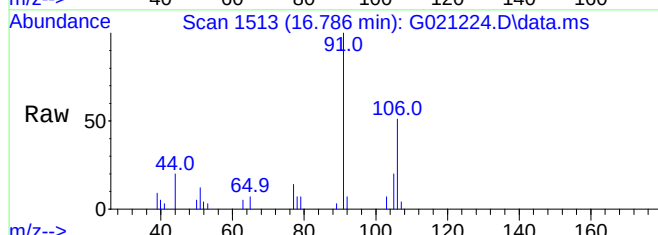
Tgt Ion: 91 Resp: 20162
Ion Ratio Lower Upper
91 100
106 48.6 28.3 68.3





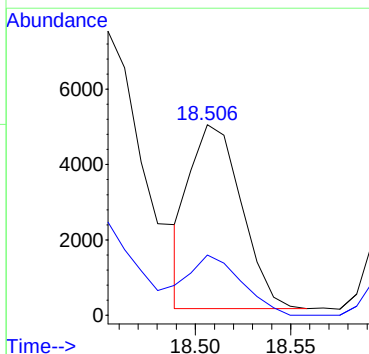
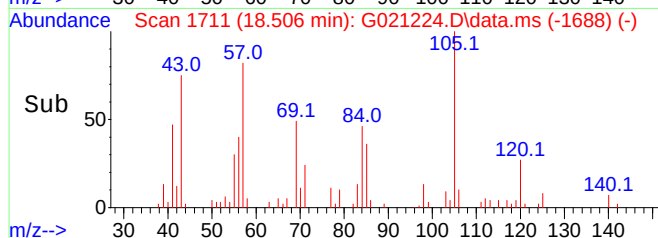
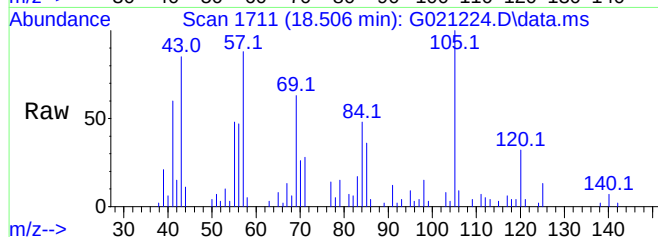
#56
O-XYLENE
Concen: 0.07 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.000 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

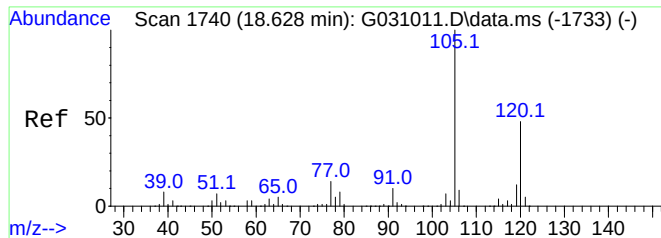
Tgt Ion: 91 Resp: 8880
Ion Ratio Lower Upper
91 100
106 48.7 25.5 65.5



#59
4-ETHYLTOLUENE
Concen: 0.05 PPBV
RT: 18.506 min Scan# 1711
Delta R.T. -0.000 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

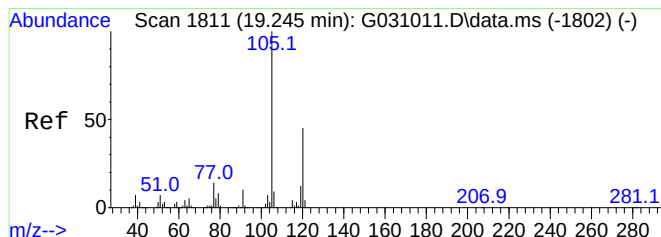
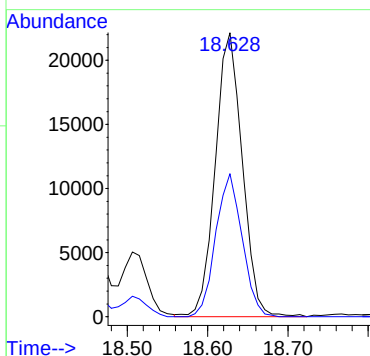
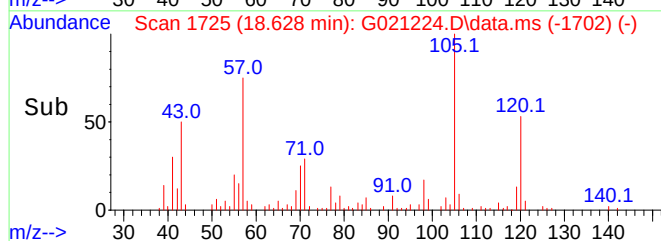
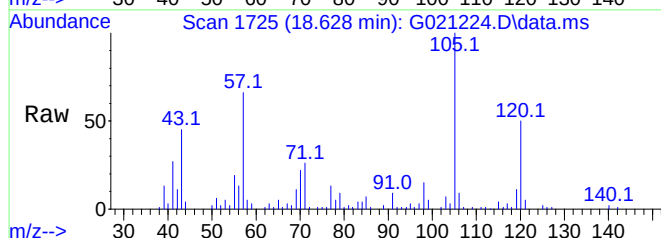
Tgt Ion: 105 Resp: 9191
Ion Ratio Lower Upper
105 100
120 36.9 8.6 48.6





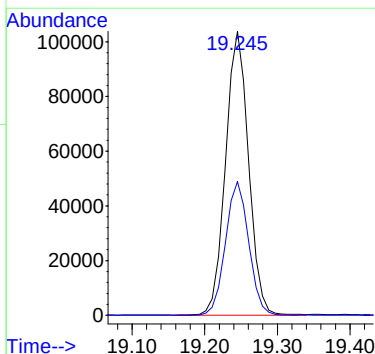
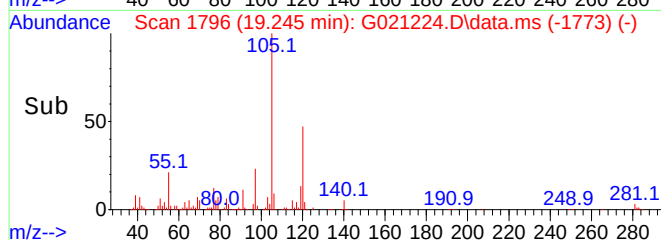
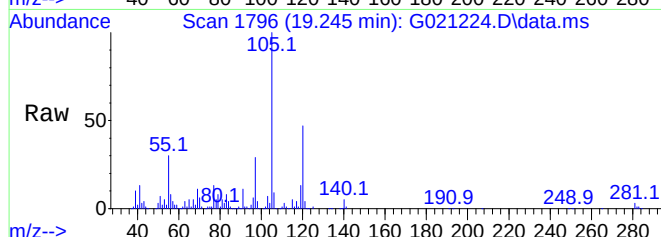
#60
1,3,5-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 18.628 min Scan# 1725
Delta R.T. -0.000 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

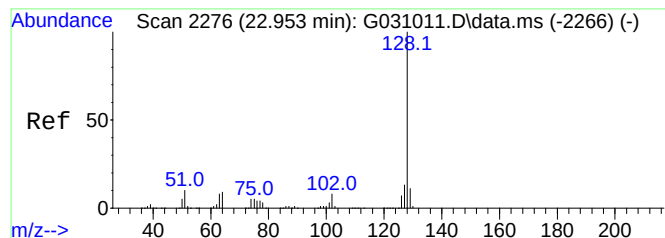
Tgt Ion:105 Resp: 51786
Ion Ratio Lower Upper
105 100
120 49.2 28.3 68.3



#61
1,2,4-TRIMETHYLBENZENE
Concen: 1.64 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.000 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

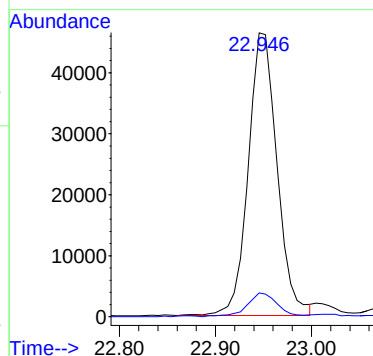
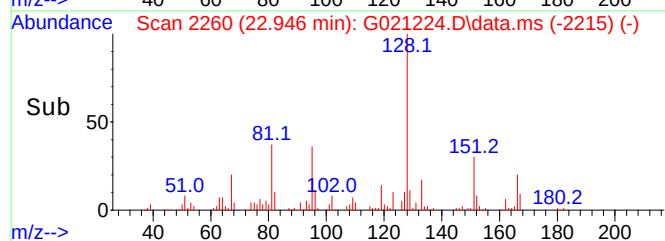
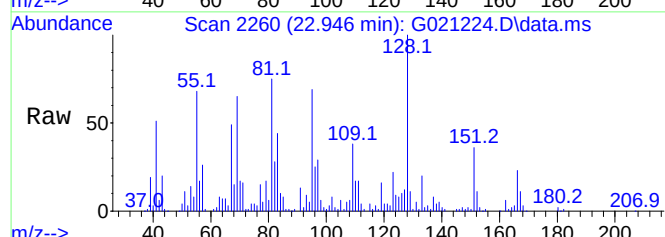
Tgt Ion:105 Resp: 230666
Ion Ratio Lower Upper
105 100
120 47.4 24.8 64.8





#67
NAPHTHALENE
Concen: 0.52 PPBV
RT: 22.946 min Scan# 2260
Delta R.T. -0.006 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

Tgt Ion:128 Resp: 97043
Ion Ratio Lower Upper
128 100
102 8.8 0.0 28.6



Data File : C:\msdchem\1\data\G021212\G021224.D
 Acq On : 13 Feb 2012 4:59 pm
 Sample : 12B0323-10 1X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 13:01:30 2012

Vial: 10
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	954523	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.439	54	172715	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	630268	9.64	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	120.50%
Target Compounds						
14) SEC-BUTYLBENZENE	19.671	105	30890	0.184	PPBV	Qvalue 99
15) P-CYMENE	19.836	119	62082	0.444	PPBV	96
16) INDANE	20.235	117	19351	0.180	PPBV	87
18) BUTYLBENZENE	20.627	91	116228	0.829	PPBV #	38
21) 2-METHYLNAPHTHALENE	24.563	142	10460	0.097	PPBV	85
22) 1-METHYLNAPHTHALENE	24.813	142	6568	0.057	PPBV	93

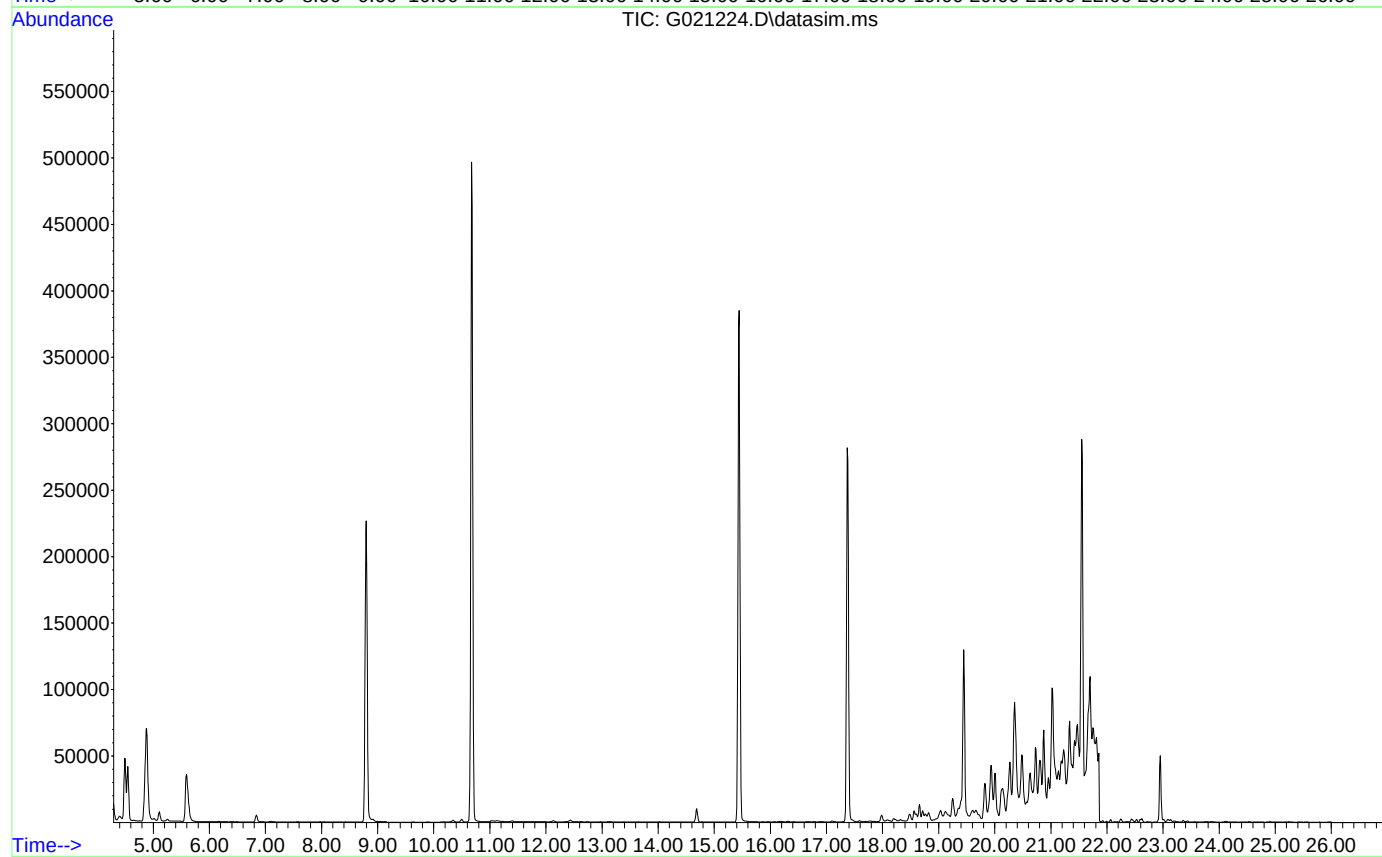
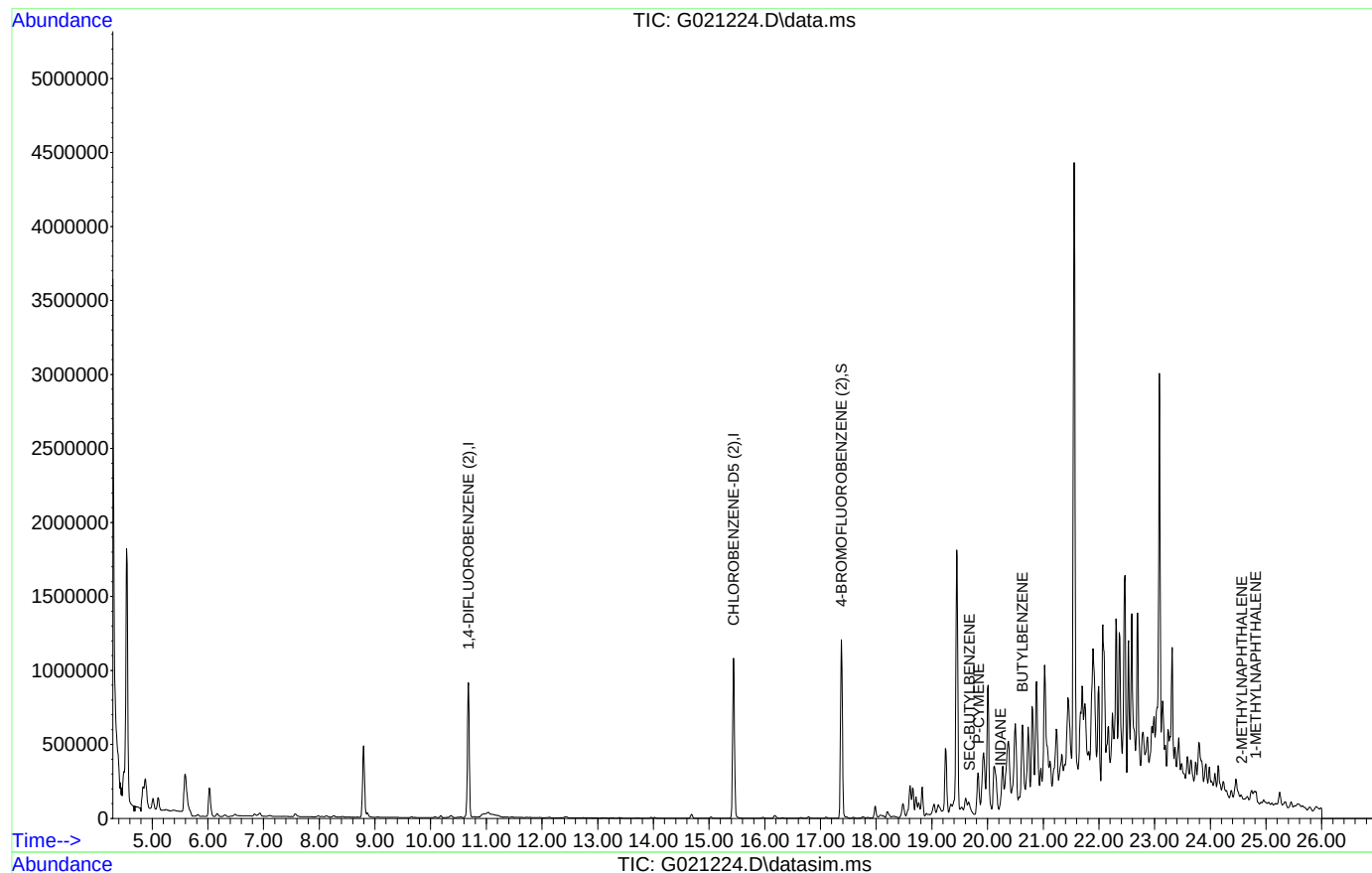
(#) = qualifier out of range (m) = manual integration (+) = signals summed

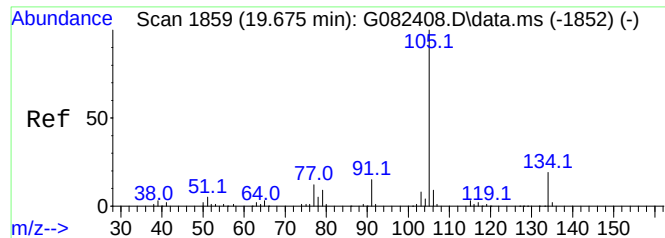
Data File : C:\msdchem\1\data\G021212\G021224.D
Acq On : 13 Feb 2012 4:59 pm
Sample : 12B0323-10 1X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 13:01:30 2012

Vial: 10
Operator: TPH
Inst : SYSG
Multiplr: 1.00

299

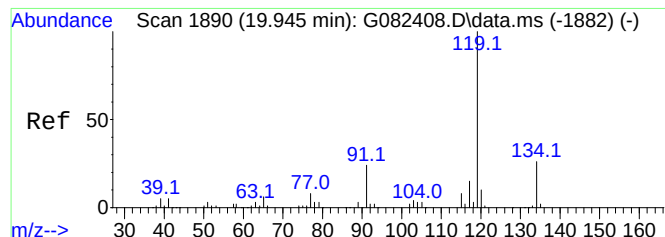
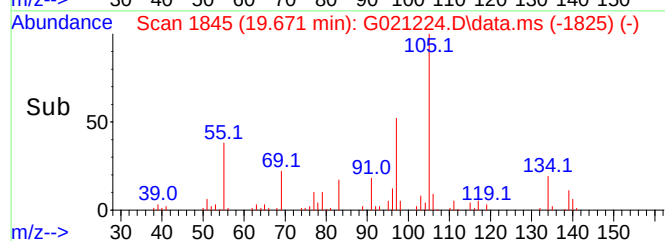
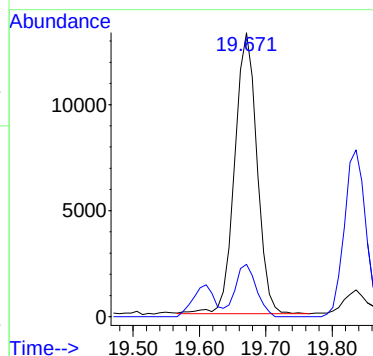
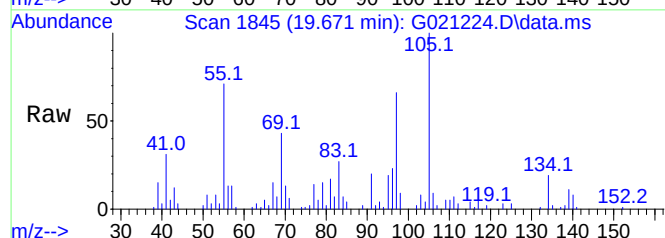
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





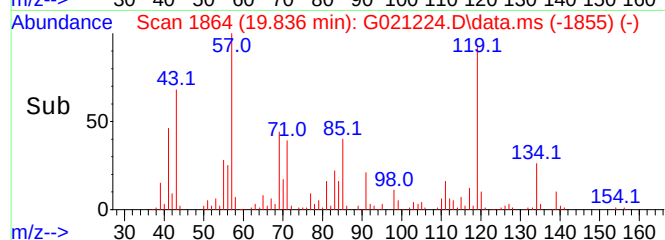
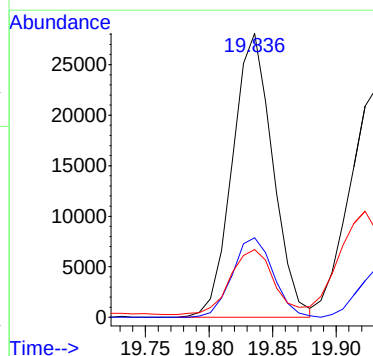
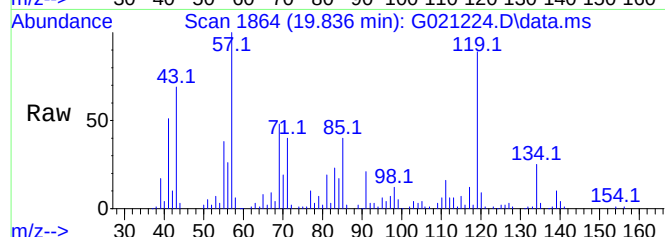
#14
SEC-BUTYLBENZENE
Concen: 0.18 PPBV
RT: 19.671 min Scan# 1845
Delta R.T. -0.022 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

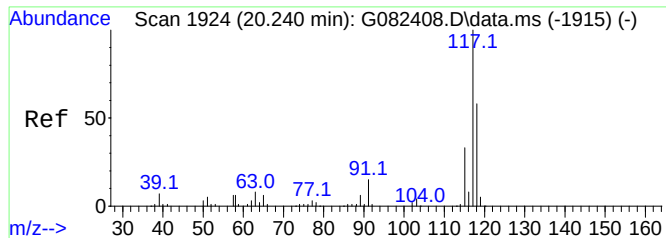
Tgt Ion:105 Resp: 30890
Ion Ratio Lower Upper
105 100
134 17.6 0.0 38.2



#15
P-CYMENE
Concen: 0.44 PPBV
RT: 19.836 min Scan# 1864
Delta R.T. -0.117 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

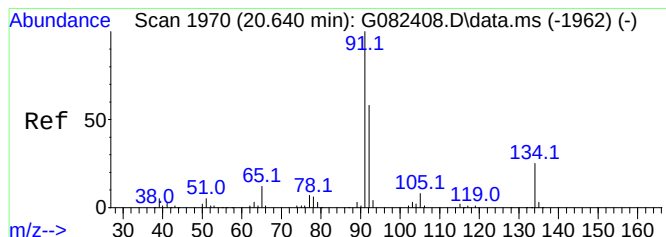
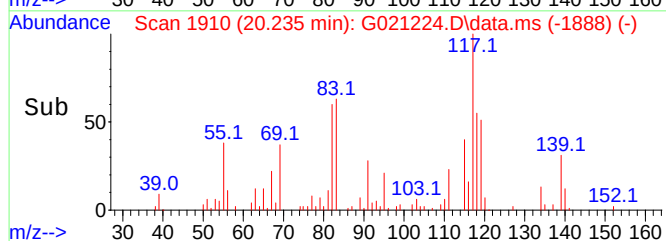
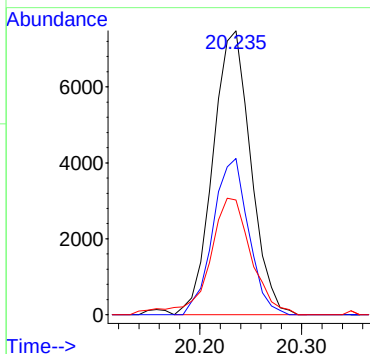
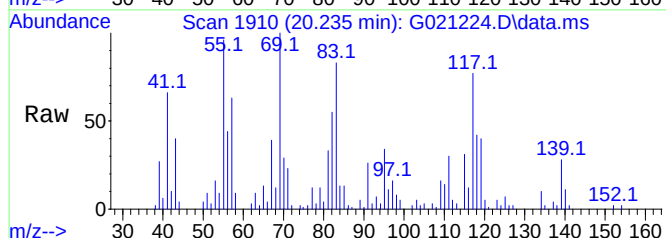
Tgt Ion:119 Resp: 62082
Ion Ratio Lower Upper
119 100
134 28.3 5.8 45.8
91 24.4 2.8 42.8





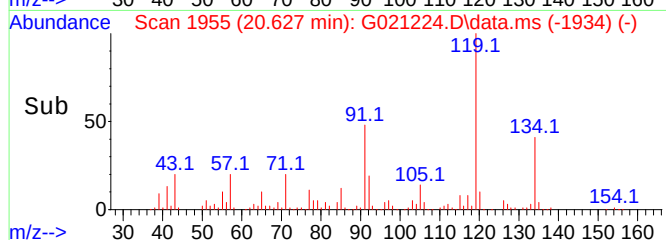
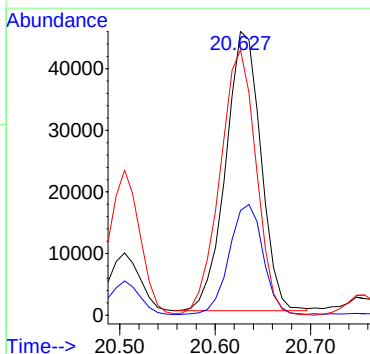
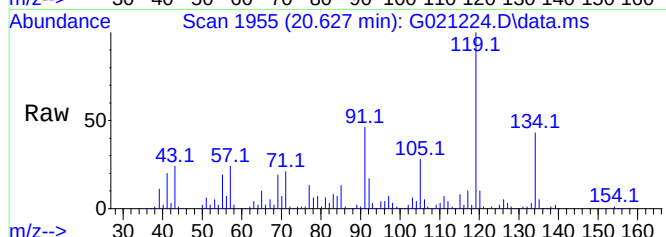
#16
INDANE
Concen: 0.18 PPBV
RT: 20.235 min Scan# 1910
Delta R.T. -0.013 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

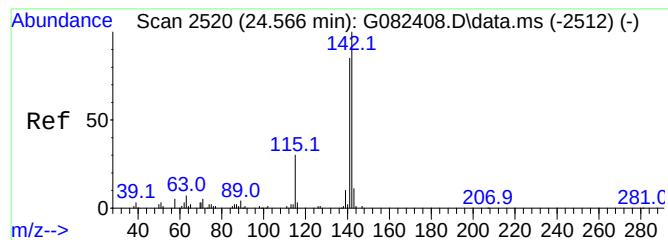
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	19351		
118	51.6		36.4	76.4
115	45.3		11.9	51.9



#18
BUTYLBENZENE
Concen: 0.83 PPBV
RT: 20.627 min Scan# 1955
Delta R.T. -0.022 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

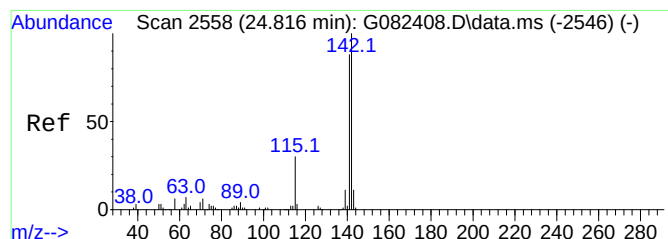
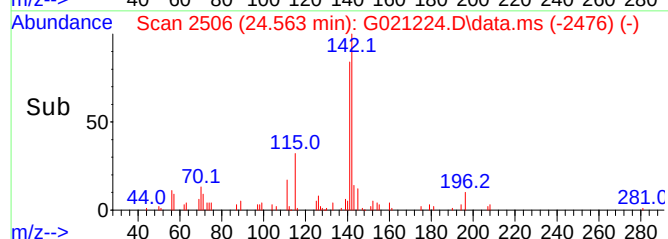
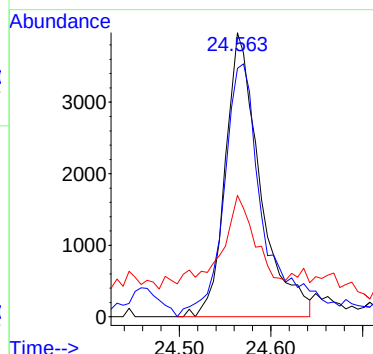
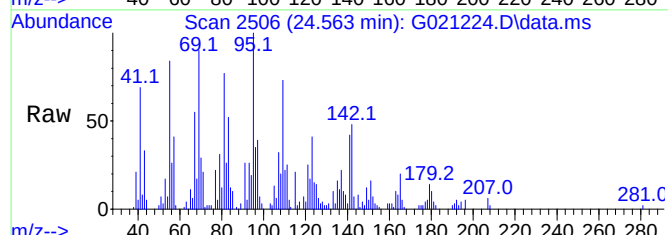
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	116228		
92	38.3		35.2	75.2
134	97.7		3.9	43.9#





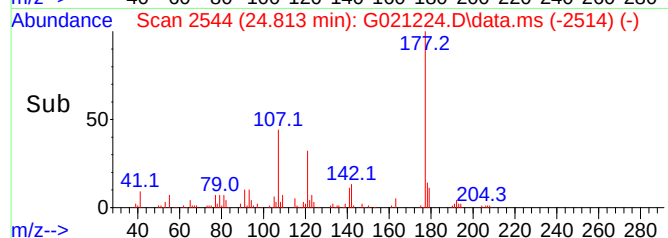
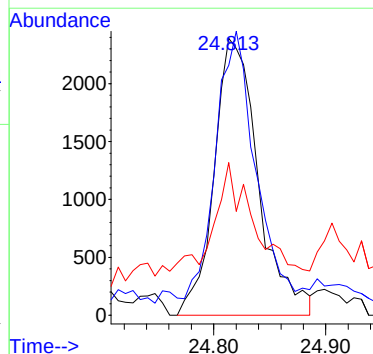
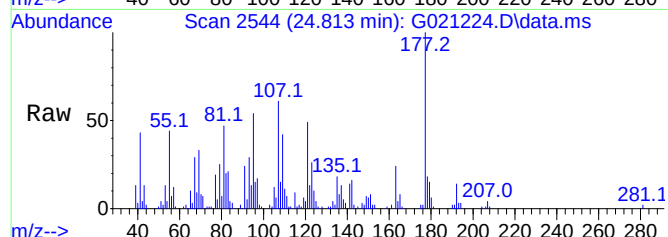
#21
2-METHYLNAPHTHALENE
Concen: 0.10 PPBV
RT: 24.563 min Scan# 2506
Delta R.T. -0.002 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

Tgt Ion	Ratio	Lower	Upper
142	100		
141	102.2	65.7	105.7
115	35.2	10.7	50.7



#22
1-METHYLNAPHTHALENE
Concen: 0.06 PPBV
RT: 24.813 min Scan# 2544
Delta R.T. -0.002 min
Lab File: G021224.D
Acq: 13 Feb 2012 4:59 pm

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.3	110.3
115	44.4	10.9	50.9



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-05

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-11 File ID: G021416.D
 Sampled: 02/08/12 16:41 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 22:19
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.18	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.061	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.58	0.018	0.035	
110-82-7	Cyclohexane	0.093	0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.61	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-05

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-11 File ID: G021416.D
 Sampled: 02/08/12 16:41 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 22:19
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
100-41-4	Ethylbenzene	4.1	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.57	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	3.5	0.011	0.035	
100-42-5	Styrene	0.036	0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene	0.055	0.011	0.035	
108-88-3	Toluene	0.58	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.26	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.081	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene	0.098	0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	
1330-20-7P/M	m&p-Xylene	16	0.018	0.070	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-05

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-11	File ID:	G021416.D		
Sampled:	02/08/12 16:41	Prepared:	02/14/12 10:43	Analyzed:	02/14/12 22:19		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
95-47-6	o-Xylene	5.9	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021416.D
 Acq On : 14 Feb 2012 10:19 pm
 Sample : 12B0323-11 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:55:53 2012

Vial: 8
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

306

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.803	49	335625	8.00	PPBV	# 0.02
30) 1,4-DIFLUOROBENZENE (1)	10.688	114	1101532	8.00	PPBV	0.02
44) CHLOROBENZENE-D5 (1)	15.447	117	976126	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.385	174	556500	8.37	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.62%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	4.569	85	57187	0.869	PPBV	99
4) CHLOROMETHANE	4.723	50	15570	0.823	PPBV	100
10) ACROLEIN	5.894	56	2118	0.269	PPBV	93
11) ACETONE	6.015	43	9305802	285.101	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.180	101	19635	0.374	PPBV	98
13) ETHANOL	5.662	45	6114014	890.125	PPBV	96
15) METHYLENE CHLORIDE	6.849	49	29531	0.808	PPBV	# 76
16) FREON 113	7.101	101	6816	0.115	PPBV	87
21) IPA	6.293	45	1055050	30.721	PPBV	90
22) 2-BUTANONE(MEK)	8.256	43	33857	0.512	PPBV	85
25) HEXANE	8.864	41	30434	0.886	PPBV	97
26) ETHYL ACETATE	8.846	61	119569	10.230	PPBV	95
32) BENZENE	10.346	78	34932	0.256	PPBV	93
33) CARBON TETRACHLORIDE	10.496	117	5680	0.087	PPBV	98
34) CYCLOHEXANE	10.629	84	7666	0.133	PPBV	# 71
40) HEPTANE	11.728	57	77616	1.892	PPBV	88
41) MIBK	12.357	43	505652	4.926	PPBV	84
46) TOLUENE	13.388	91	122156	0.831	PPBV	99
50) TETRACHLOROETHENE	14.692	166	5014	0.079	PPBV	92
52) ETHYLBENZENE	15.969	91	1080471	5.822	PPBV	96
53) M/P-XYLENE	16.186	91	3409077	23.225	PPBV	96
55) STYRENE	16.647	104	5503	0.051	PPBV	98
56) O-XYLENE	16.786	91	1218708	8.346	PPBV	95
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	22194	0.140	PPBV	100
67) NAPHTHALENE	22.952	128	11316	0.054	PPBV	98

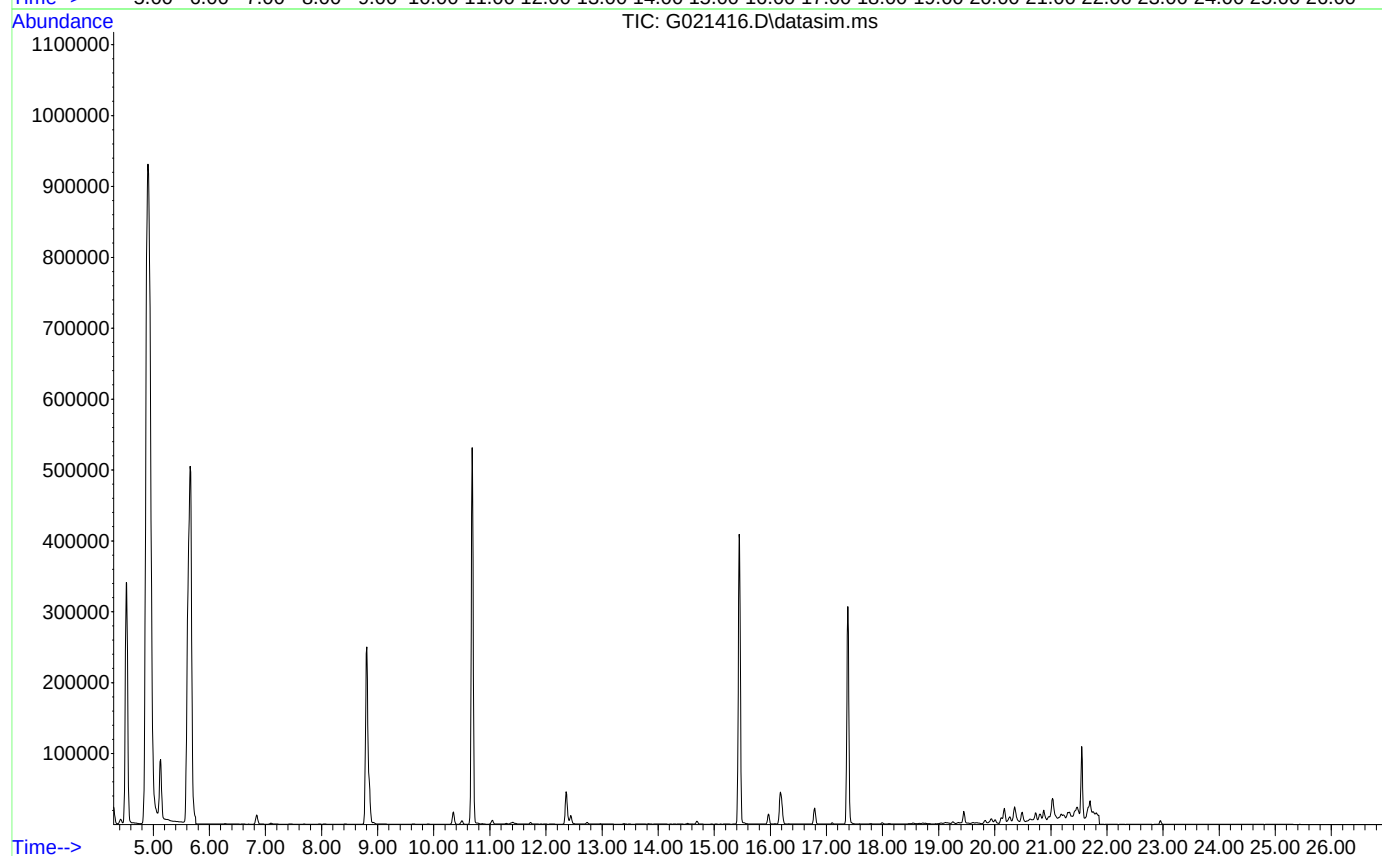
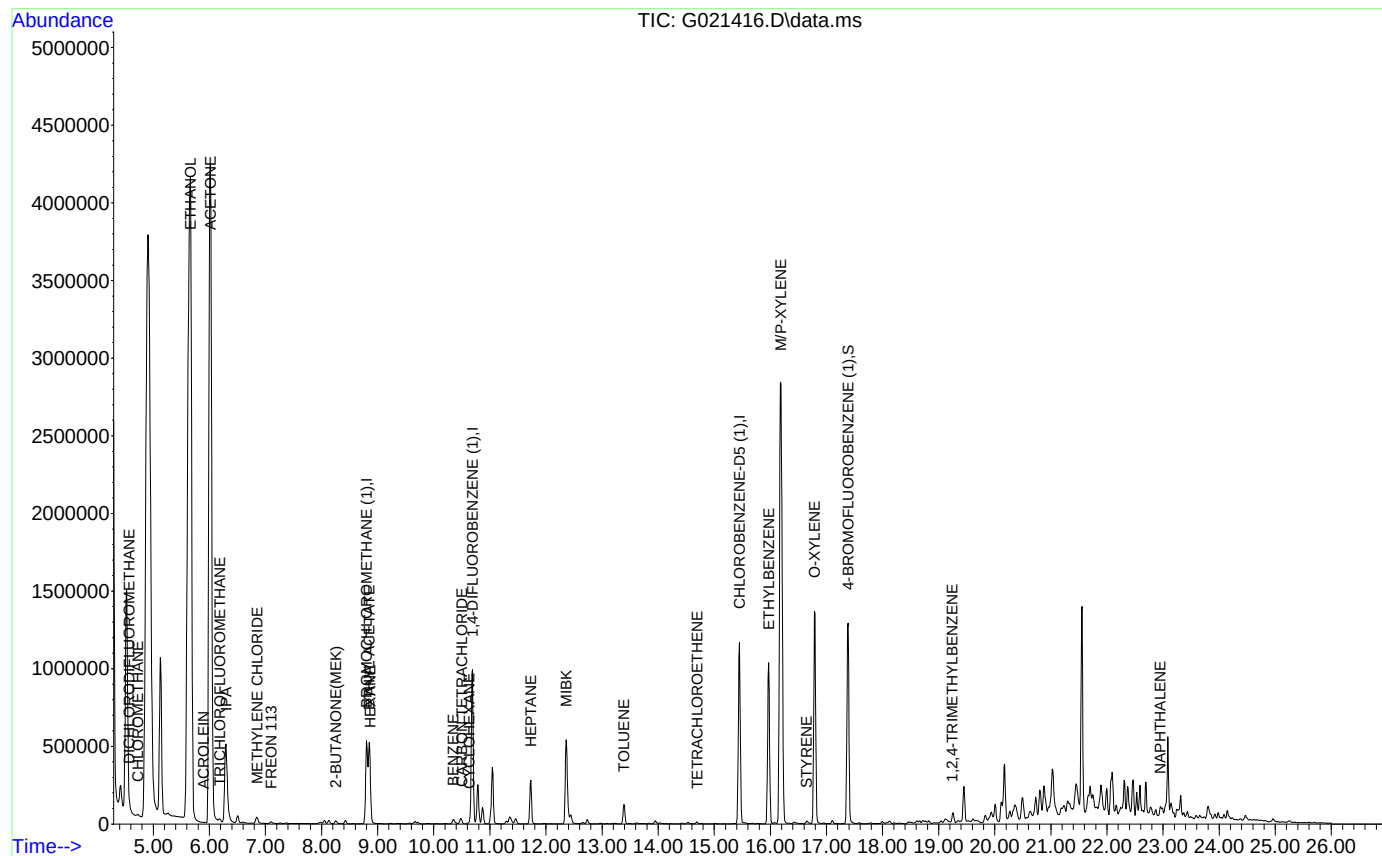
(#) = qualifier out of range (m) = manual integration (+) = signals summed

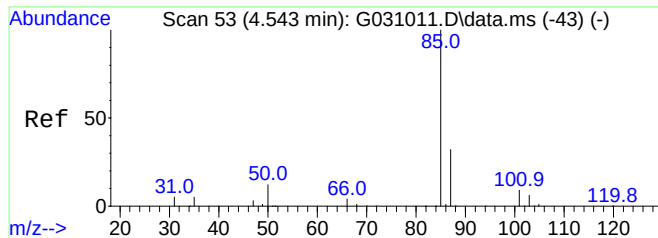
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Acq On : 14 Feb 2012 10:19 pm
Sample : 12B0323-11 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:55:53 2012

Vial: 8
Operator: WSD
Inst : SYSG
Multiplr: 1.00

307

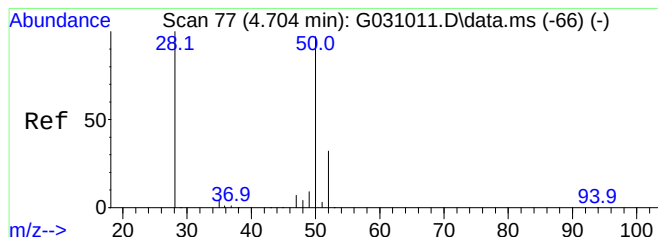
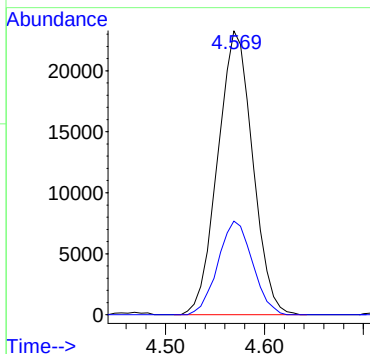
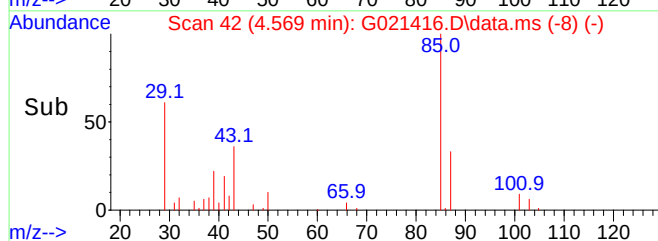
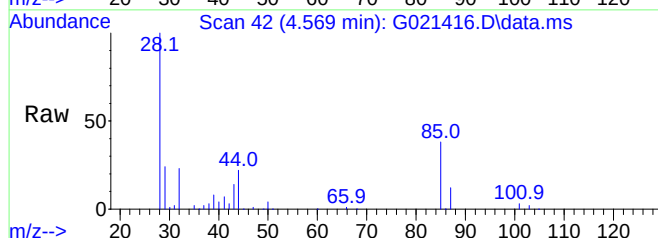
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





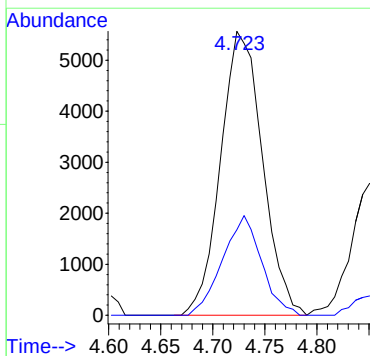
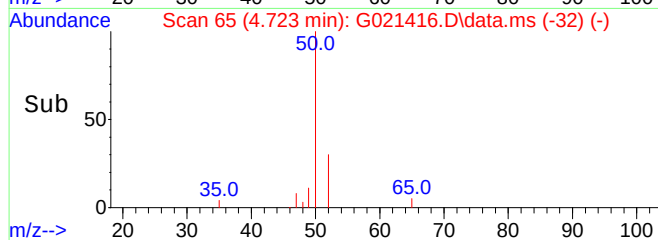
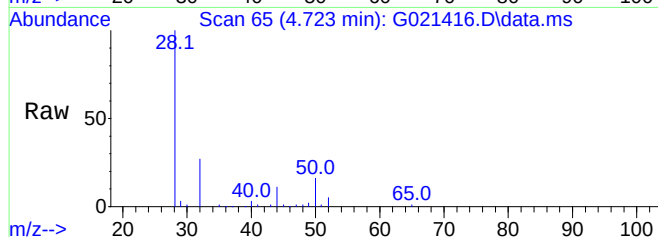
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.87 PPBV
 RT: 4.569 min Scan# 42
 Delta R.T. 0.026 min
 Lab File: G021416.D
 Acq: 14 Feb 2012 10:19 pm

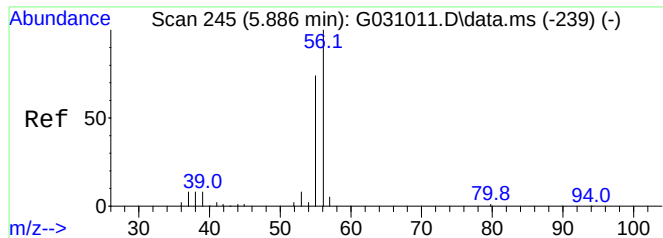
Tgt Ion: 85 Resp: 57187
 Ion Ratio Lower Upper
 85 100
 87 32.6 12.1 52.1



#4
 CHLOROMETHANE
 Concen: 0.82 PPBV
 RT: 4.723 min Scan# 65
 Delta R.T. 0.020 min
 Lab File: G021416.D
 Acq: 14 Feb 2012 10:19 pm

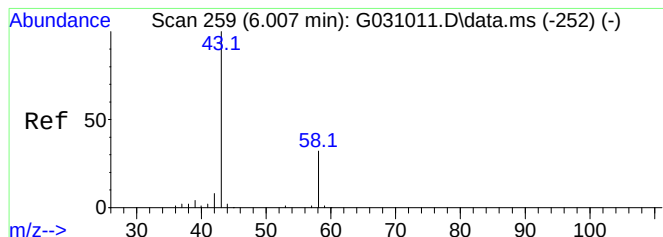
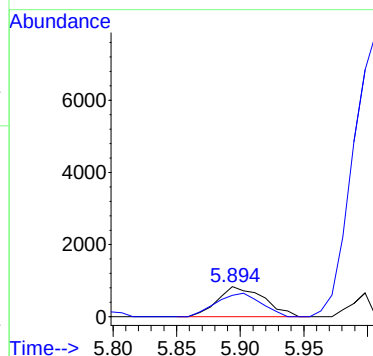
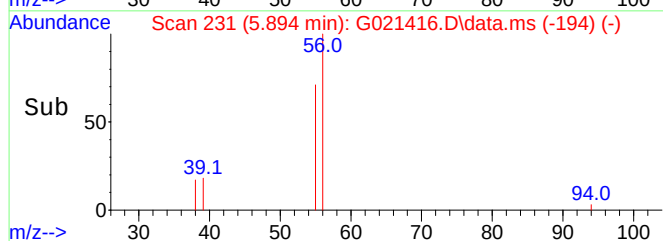
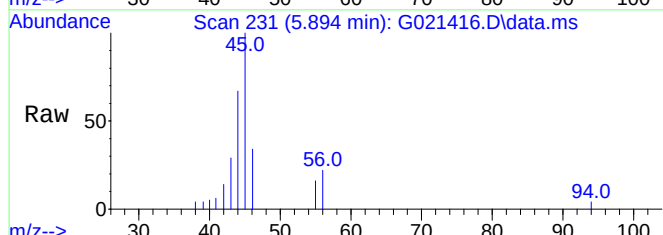
Tgt Ion: 50 Resp: 15570
 Ion Ratio Lower Upper
 50 100
 52 32.8 12.8 52.8





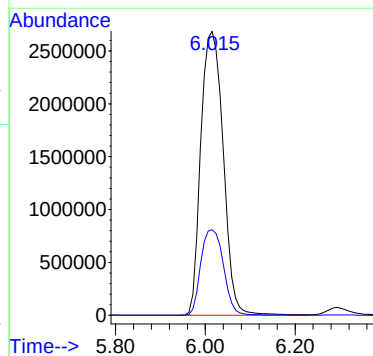
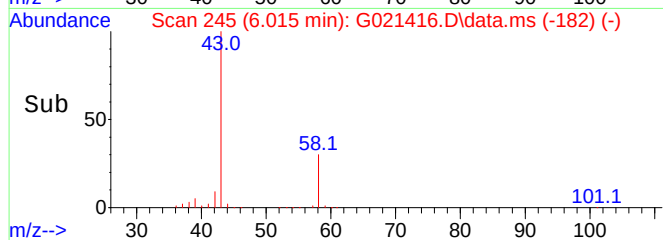
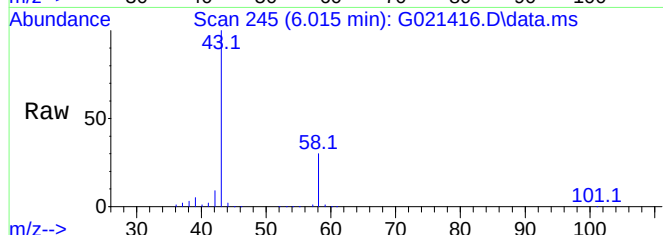
#10
ACROLEIN
Concen: 0.27 PPBV
RT: 5.894 min Scan# 231
Delta R.T. 0.009 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

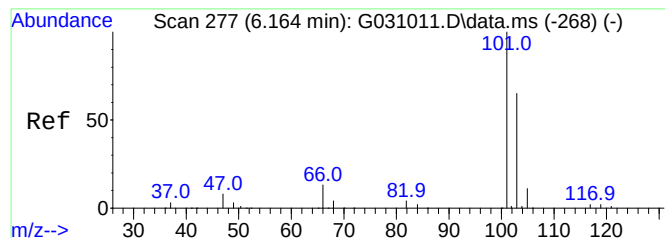
Tgt Ion: 56 Resp: 2118
Ion Ratio Lower Upper
56 100
55 75.7 56.1 84.1



#11
ACETONE
Concen: 285.10 PPBV
RT: 6.015 min Scan# 245
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

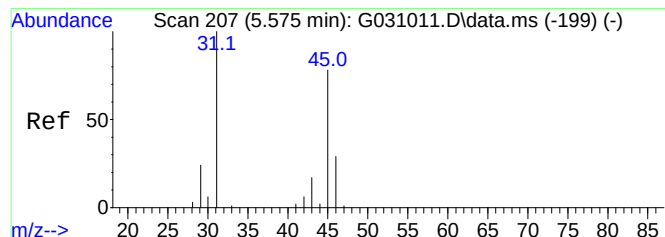
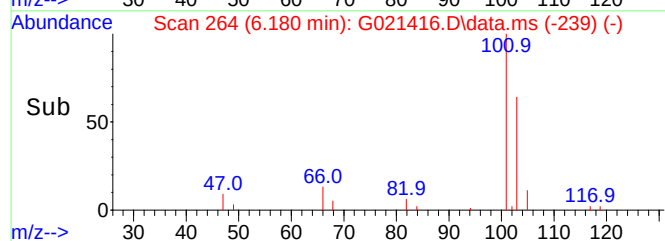
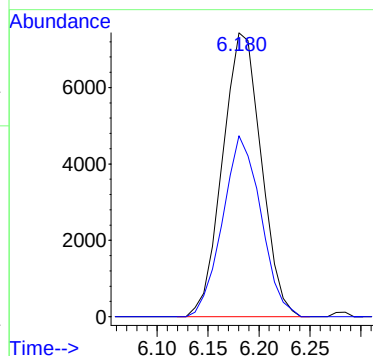
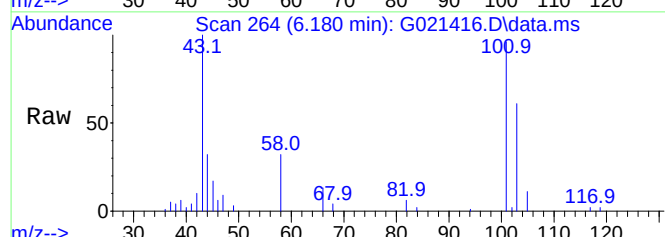
Tgt Ion: 43 Resp: 9305802
Ion Ratio Lower Upper
43 100
58 30.7 13.9 53.9





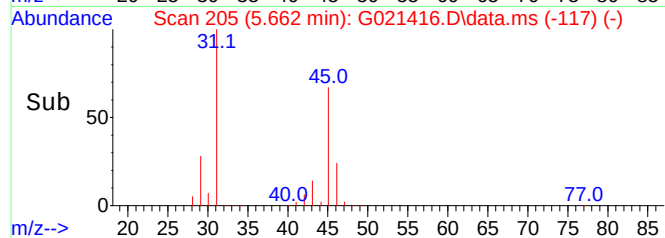
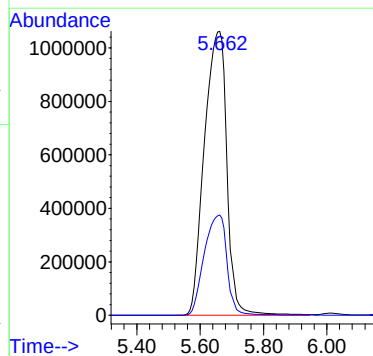
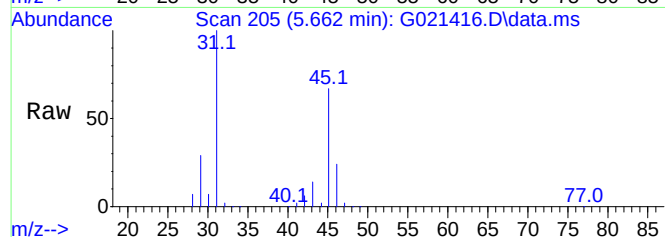
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.37 PPBV
 RT: 6.180 min Scan# 264
 Delta R.T. 0.017 min
 Lab File: G021416.D
 Acq: 14 Feb 2012 10:19 pm

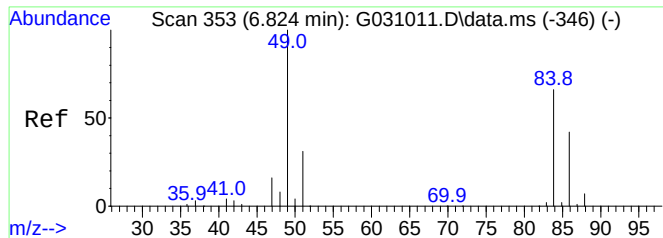
Tgt Ion: 101 Resp: 19635
 Ion Ratio Lower Upper
 101 100
 103 63.2 44.8 84.8



#13
 ETHANOL
 Concen: 890.13 PPBV
 RT: 5.662 min Scan# 205
 Delta R.T. 0.088 min
 Lab File: G021416.D
 Acq: 14 Feb 2012 10:19 pm

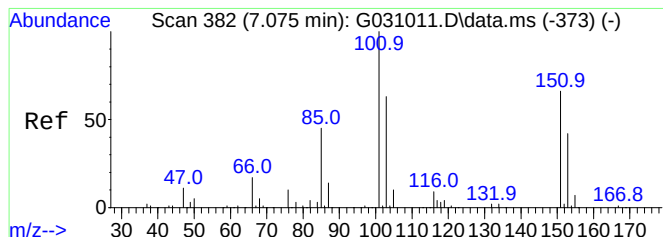
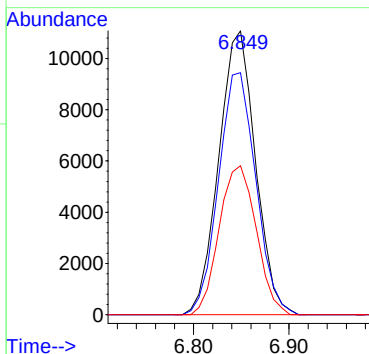
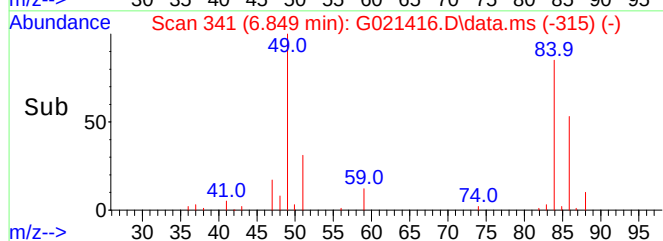
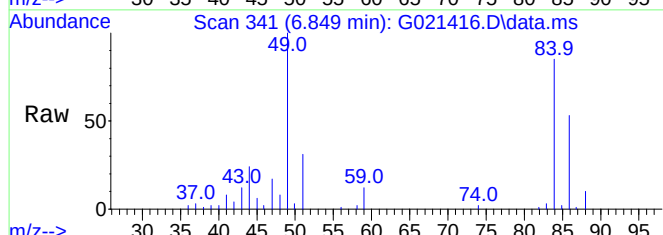
Tgt Ion: 45 Resp: 6114014
 Ion Ratio Lower Upper
 45 100
 46 36.2 14.0 54.0





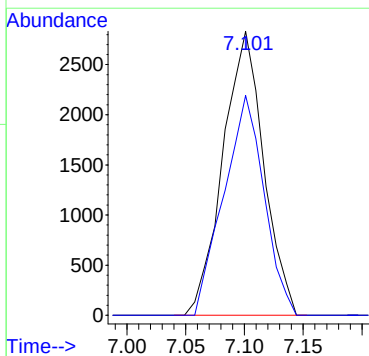
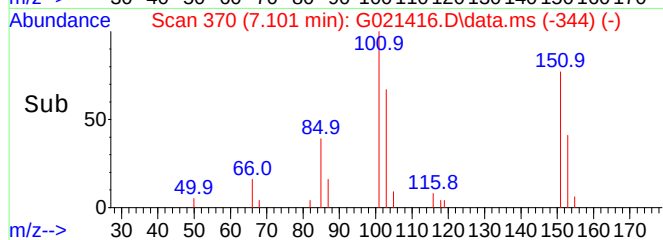
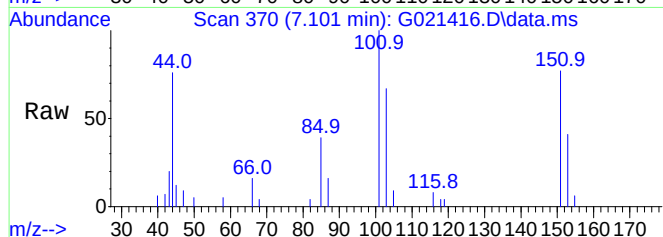
#15
METHYLENE CHLORIDE
Concen: 0.81 PPBV
RT: 6.849 min Scan# 341
Delta R.T. 0.026 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

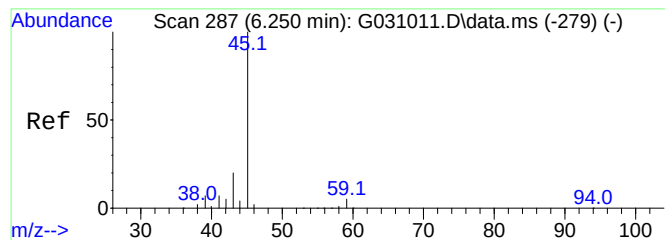
Tgt Ion: 49 Resp: 29531
Ion Ratio Lower Upper
49 100
84 86.9 45.2 85.2#
86 53.2 21.4 61.4



#16
FREON 113
Concen: 0.11 PPBV
RT: 7.101 min Scan# 370
Delta R.T. 0.026 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

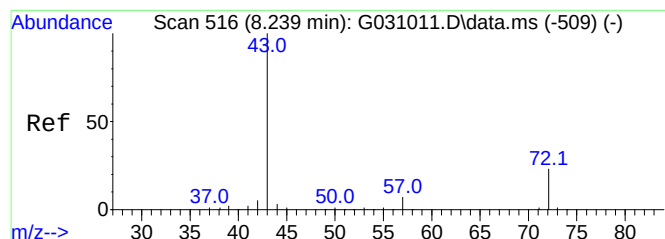
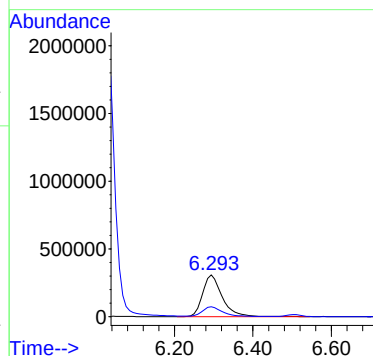
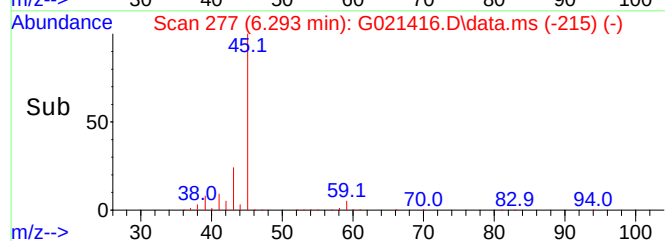
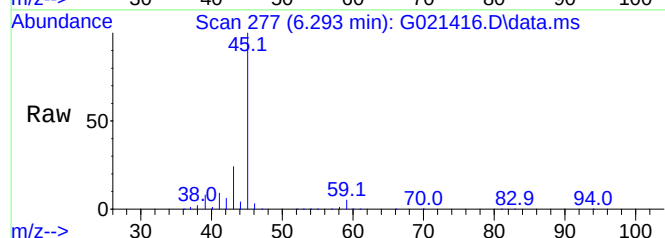
Tgt Ion: 101 Resp: 6816
Ion Ratio Lower Upper
101 100
151 76.5 46.3 86.3





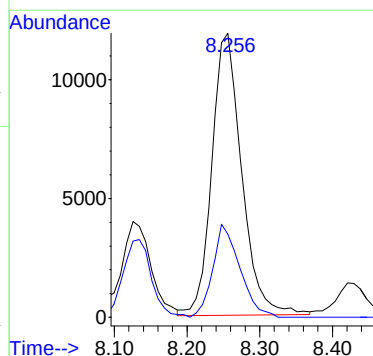
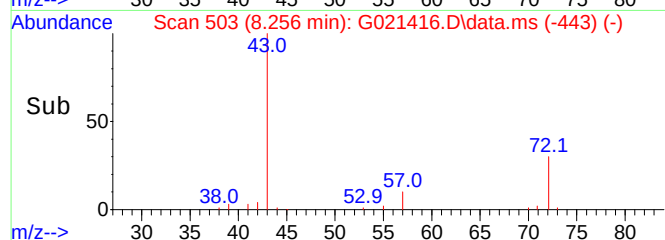
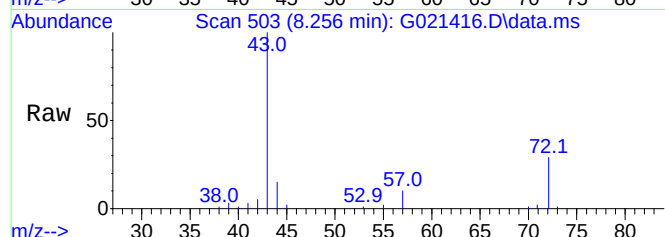
#21
IPA
Concen: 30.72 PPBV
RT: 6.293 min Scan# 277
Delta R.T. 0.043 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

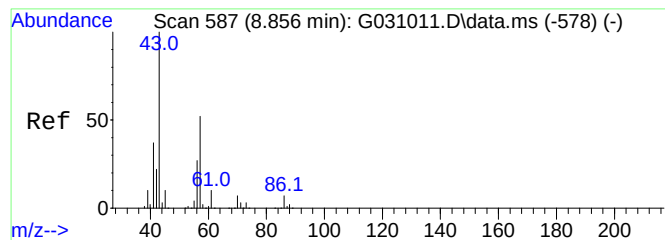
Tgt Ion: 45 Resp: 1055050
Ion Ratio Lower Upper
45 100
43 25.3 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.51 PPBV
RT: 8.256 min Scan# 503
Delta R.T. 0.017 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

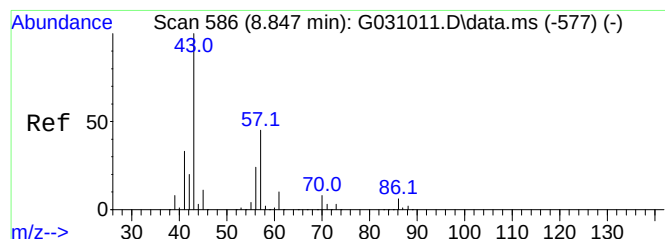
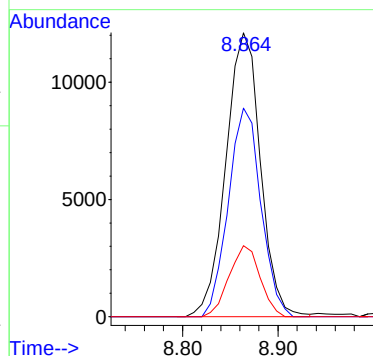
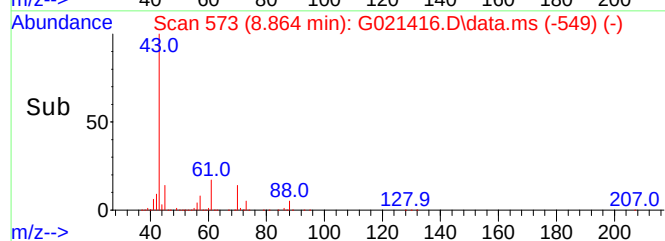
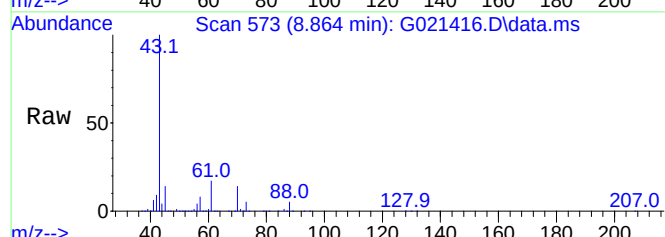
Tgt Ion: 43 Resp: 33857
Ion Ratio Lower Upper
43 100
72 29.9 2.6 42.6





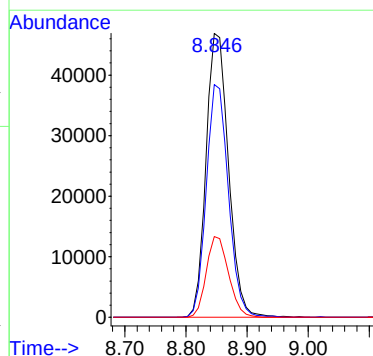
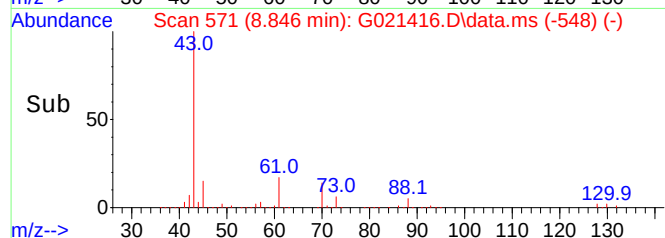
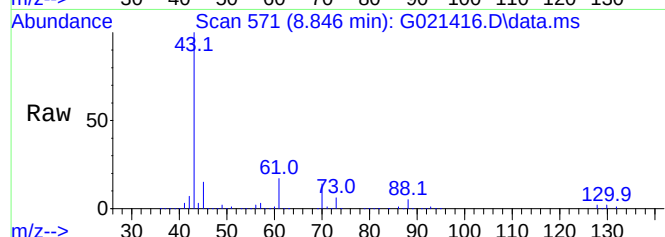
#25
 HEXANE
 Concen: 0.89 PPBV
 RT: 8.864 min Scan# 573
 Delta R.T. 0.008 min
 Lab File: G021416.D
 Acq: 14 Feb 2012 10:19 pm

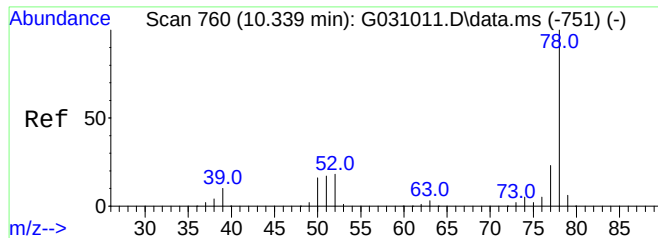
Tgt Ion: 41 Resp: 30434
 Ion Ratio Lower Upper
 41 100
 56 69.1 50.8 90.8
 86 22.4 9.6 29.6



#26
 ETHYL ACETATE
 Concen: 10.23 PPBV
 RT: 8.846 min Scan# 571
 Delta R.T. -0.001 min
 Lab File: G021416.D
 Acq: 14 Feb 2012 10:19 pm

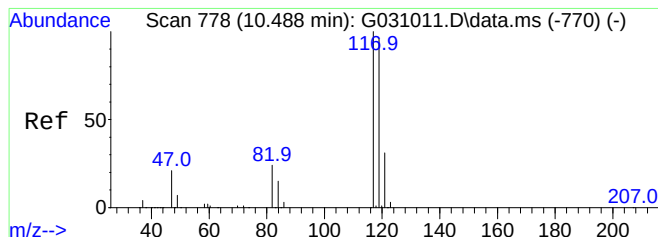
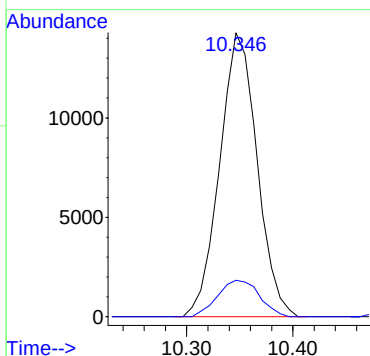
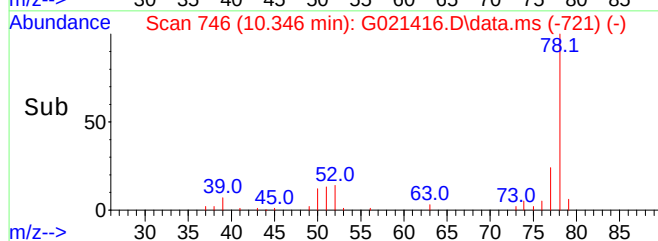
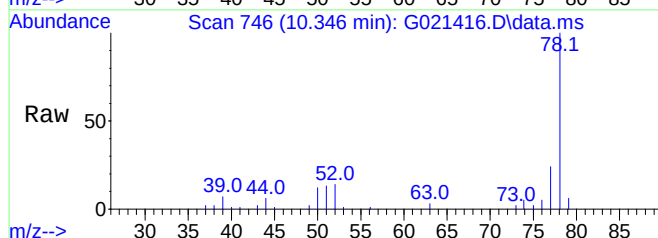
Tgt Ion: 61 Resp: 119569
 Ion Ratio Lower Upper
 61 100
 70 80.8 58.2 98.2
 88 28.1 3.0 43.0





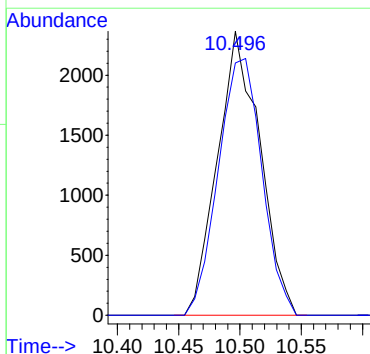
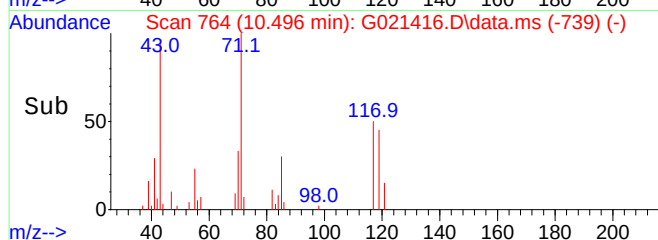
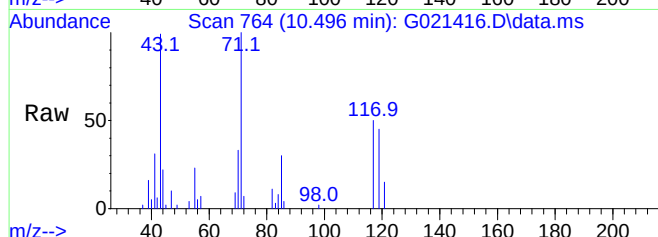
#32
BENZENE
Concen: 0.26 PPBV
RT: 10.346 min Scan# 746
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

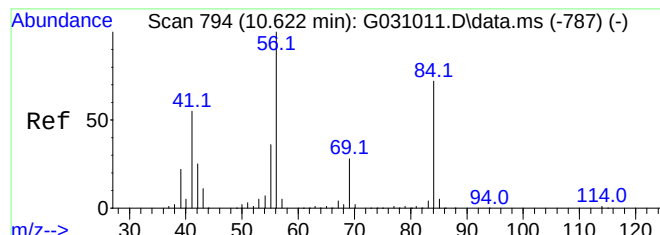
Tgt Ion: 78 Resp: 34932
Ion Ratio Lower Upper
78 100
51 14.4 0.0 37.6



#33
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 10.496 min Scan# 764
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

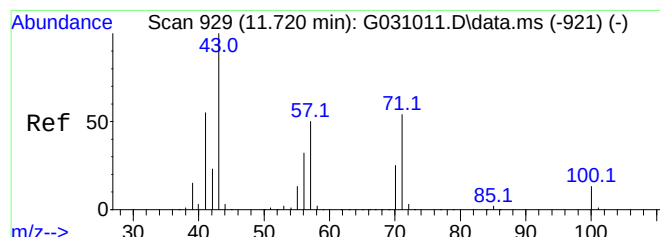
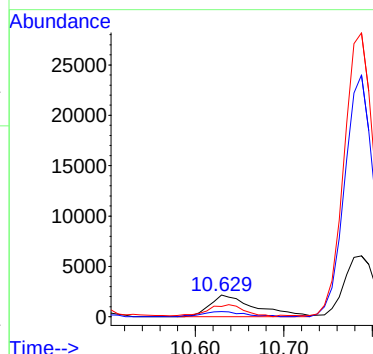
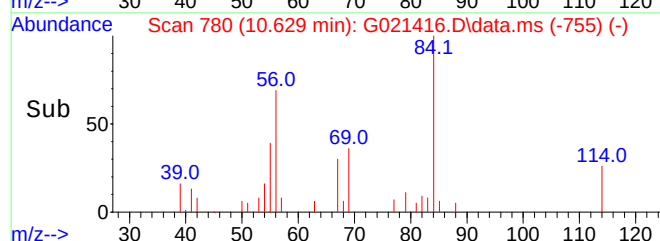
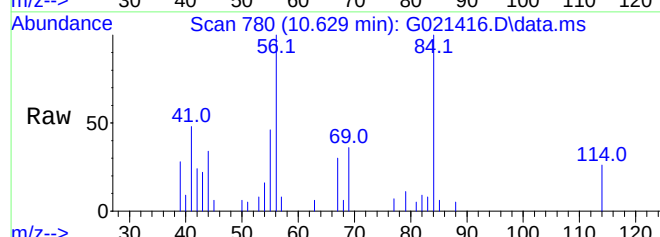
Tgt Ion: 117 Resp: 5680
Ion Ratio Lower Upper
117 100
119 93.2 75.4 115.4





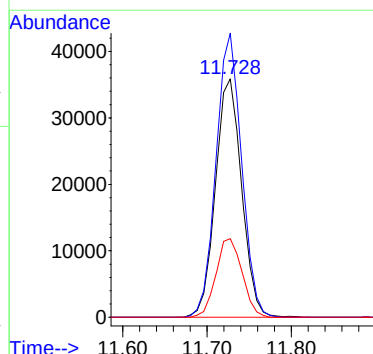
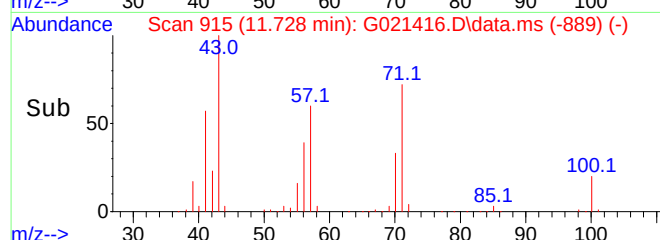
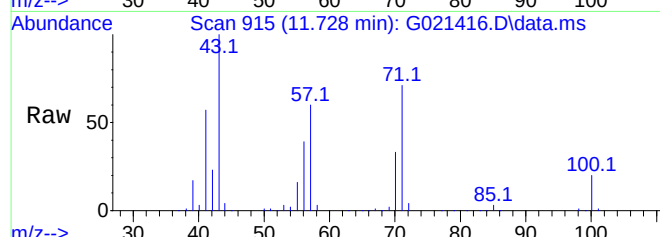
#34
CYCLOHEXANE
Concen: 0.13 PPBV
RT: 10.629 min Scan# 780
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

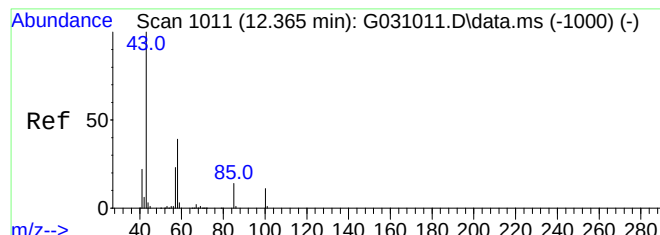
Tgt Ion: 84 Resp: 7666
Ion Ratio Lower Upper
84 100
42 22.4 13.2 53.2
41 47.2 55.4 95.4#



#40
HEPTANE
Concen: 1.89 PPBV
RT: 11.728 min Scan# 915
Delta R.T. 0.007 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

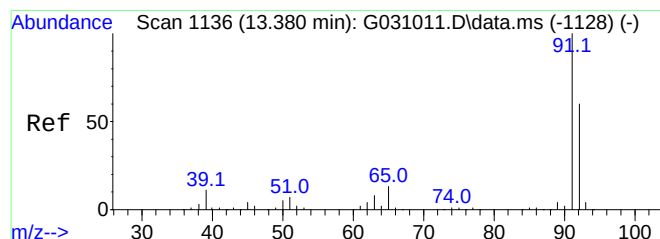
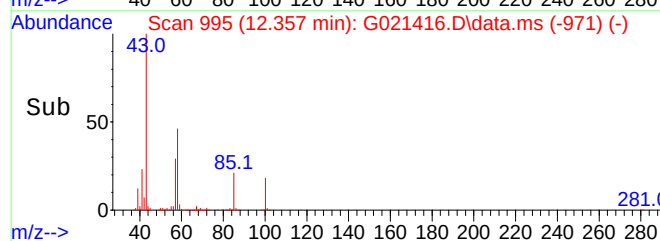
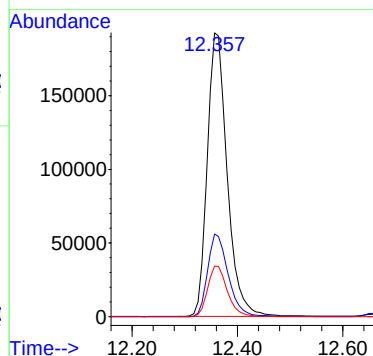
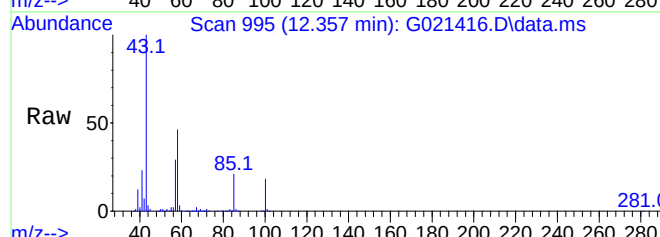
Tgt Ion: 57 Resp: 77616
Ion Ratio Lower Upper
57 100
71 115.9 83.8 123.8
100 32.8 5.4 45.4





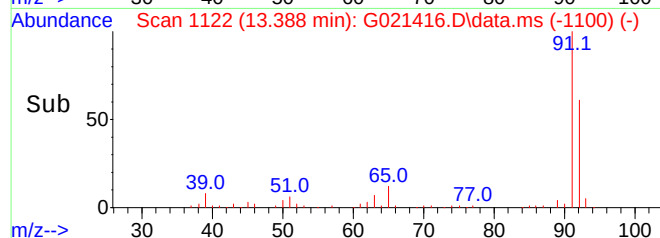
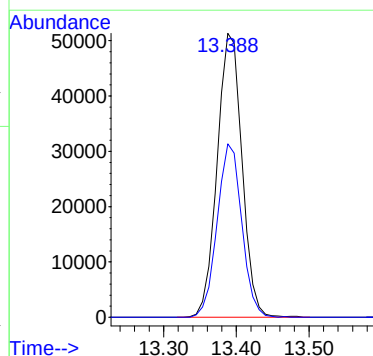
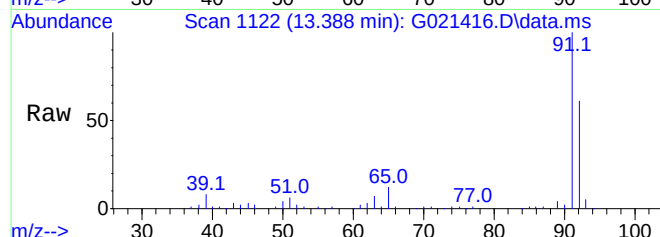
#41
MIBK
Concen: 4.93 PPBV
RT: 12.357 min Scan# 995
Delta R.T. -0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

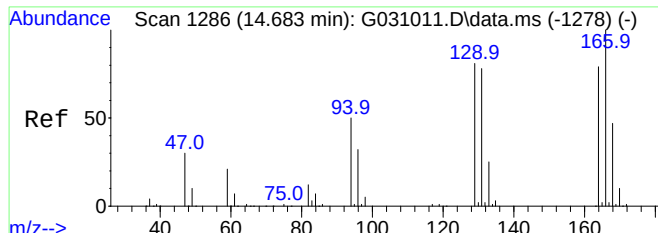
Tgt Ion: 43 Resp: 505652
Ion Ratio Lower Upper
43 100
57 30.4 2.8 42.8
100 17.7 1.0 21.0



#46
TOLUENE
Concen: 0.83 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

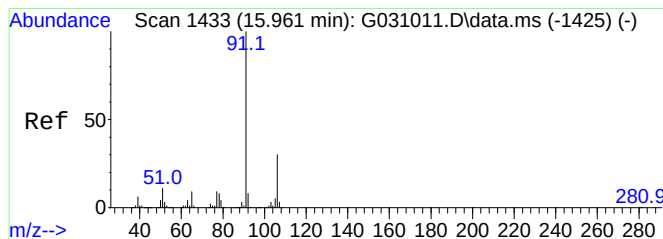
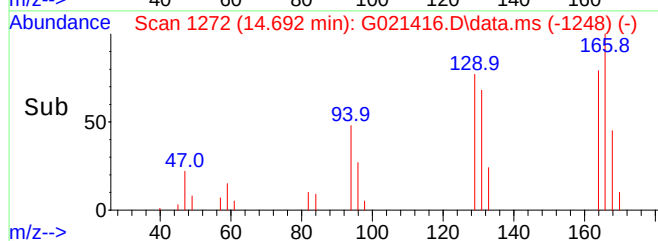
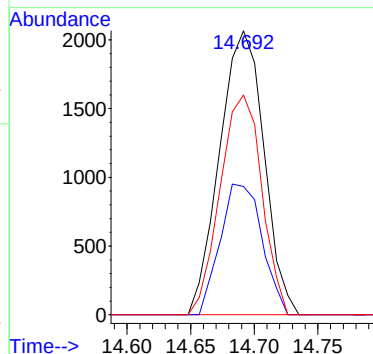
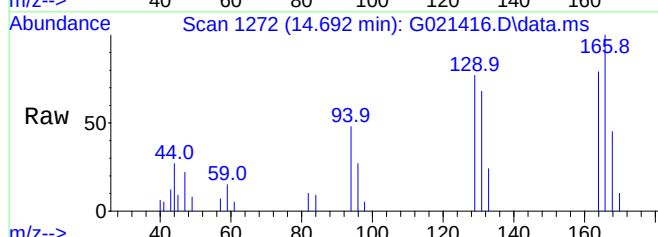
Tgt Ion: 91 Resp: 122156
Ion Ratio Lower Upper
91 100
92 60.5 39.7 79.7





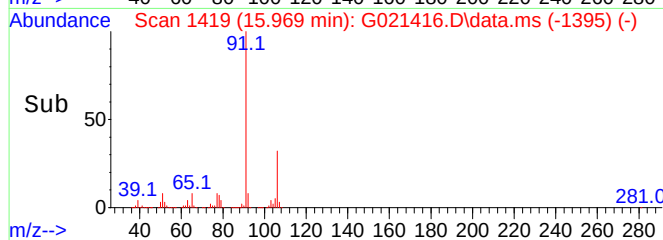
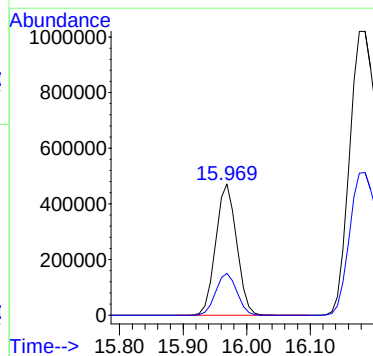
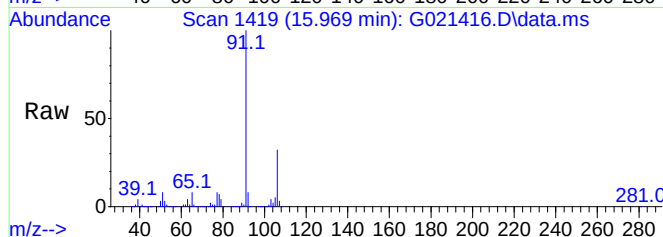
#50
TETRACHLOROETHENE
Concen: 0.08 PPBV
RT: 14.692 min Scan# 1272
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

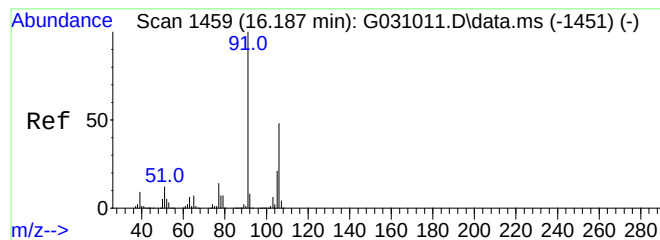
Tgt Ion: 166 Resp: 5014
Ion Ratio Lower Upper
166 100
168 43.5 27.0 67.0
129 72.7 60.6 100.6



#52
ETHYLBENZENE
Concen: 5.82 PPBV
RT: 15.969 min Scan# 1419
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

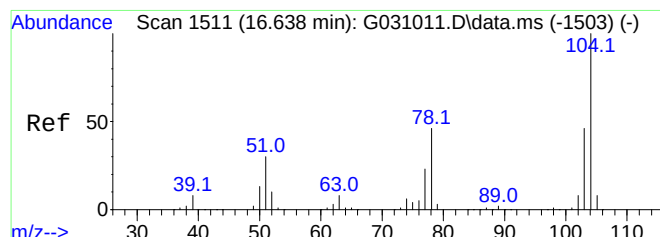
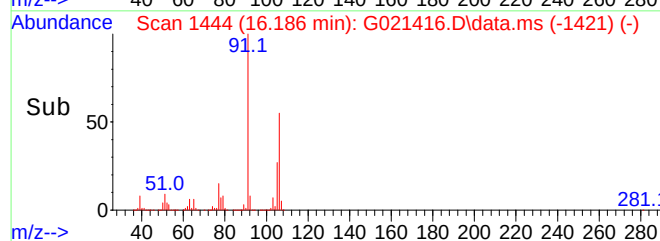
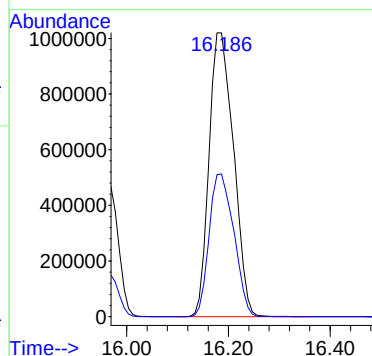
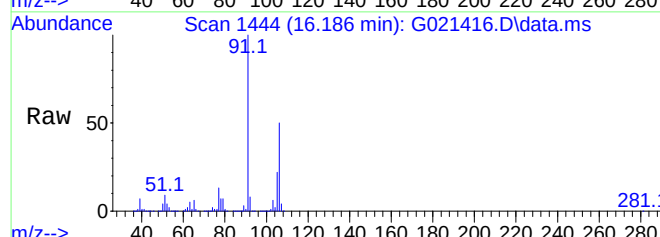
Tgt Ion: 91 Resp: 1080471
Ion Ratio Lower Upper
91 100
106 32.3 10.0 50.0





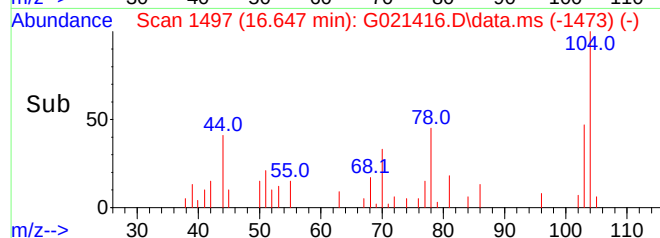
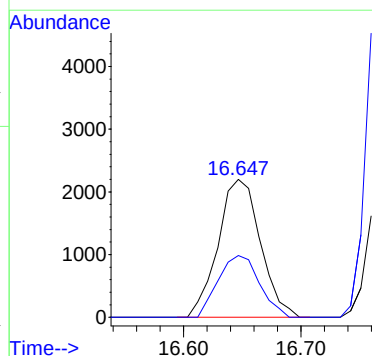
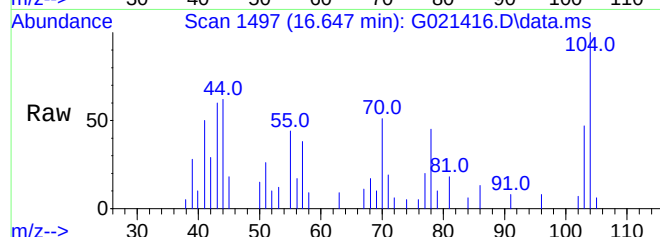
#53
M/P-XYLENE
Concen: 23.23 PPBV
RT: 16.186 min Scan# 1444
Delta R.T. -0.000 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

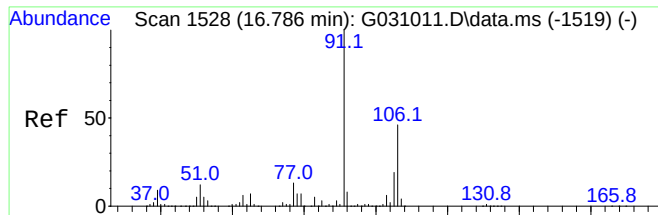
Tgt Ion: 91 Resp: 3409077
Ion Ratio Lower Upper
91 100
106 50.9 28.3 68.3



#55
STYRENE
Concen: 0.05 PPBV
RT: 16.647 min Scan# 1497
Delta R.T. 0.008 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

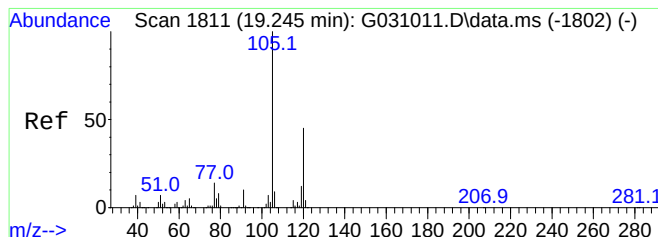
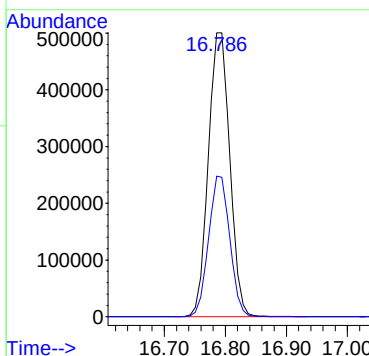
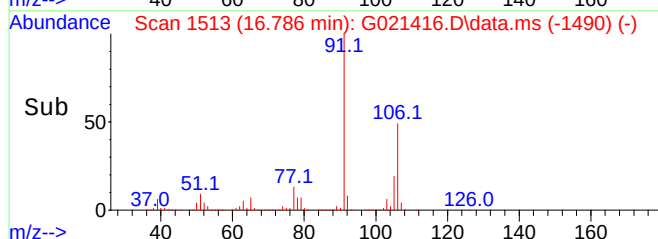
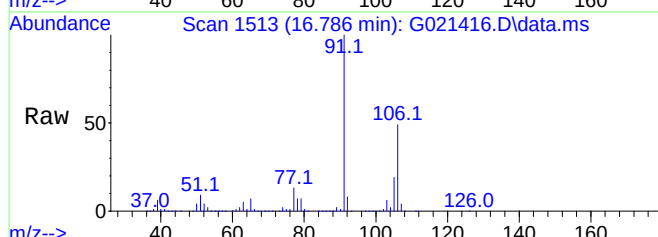
Tgt Ion: 104 Resp: 5503
Ion Ratio Lower Upper
104 100
78 43.7 25.1 65.1





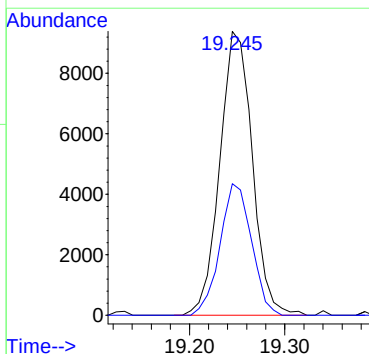
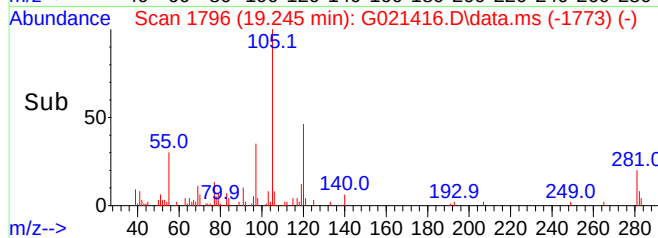
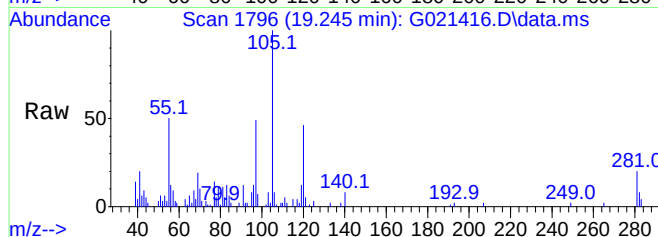
#56
O-XYLENE
Concen: 8.35 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.001 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

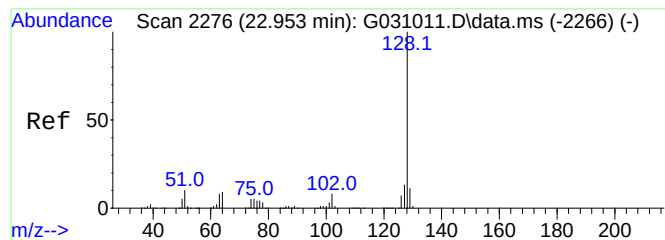
Tgt Ion: 91 Resp: 1218708
Ion Ratio Lower Upper
91 100
106 49.0 25.5 65.5



#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.14 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.000 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

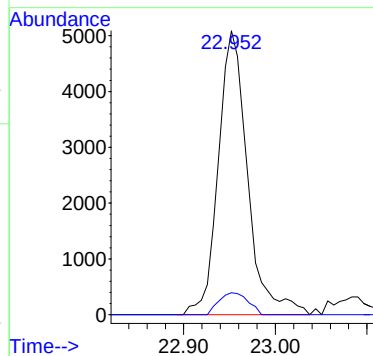
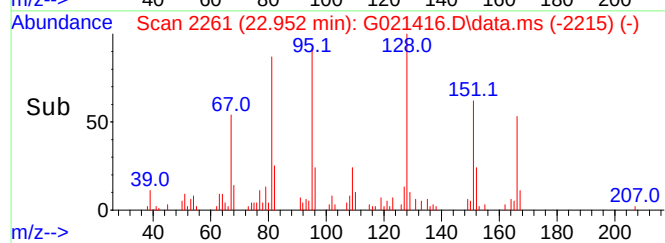
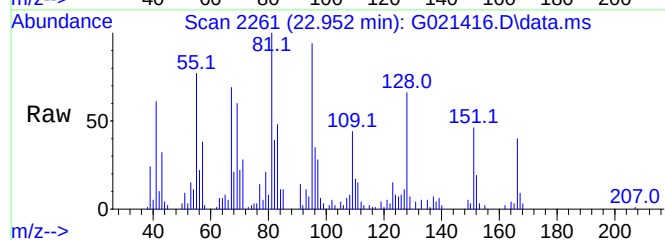
Tgt Ion: 105 Resp: 22194
Ion Ratio Lower Upper
105 100
120 44.7 24.8 64.8





#67
NAPHTHALENE
Concen: 0.05 PPBV
RT: 22.952 min Scan# 2261
Delta R.T. 0.000 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

Tgt Ion:128 Resp: 11316
Ion Ratio Lower Upper
128 100
102 7.7 0.0 28.6



Data File : C:\msdchem\1\data\G021412\G021416.D
 Acq On : 14 Feb 2012 10:19 pm
 Sample : 12B0323-11 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:15:21 2012

Vial: 8
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

321

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.688	114	1100684	8.00	PPBV	0.04
7) CHLOROBENZENE-D5 (2)	15.447	54	188677	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.385	95	705959	9.89	PPBV	-0.03
Spiked Amount	8.000	Range	70 - 130	Recovery	=	123.63%
Target Compounds						
5) 2,2,4-TRIMETHYLPENTANE	11.468	57	13355	0.085	PPBV #	1
6) METHYLCYCLOHEXANE	12.443	83	28608	0.441	PPBV	98
20) HEXYLCYCLOHEXANE	23.800	83	23765	0.182	PPBV #	86

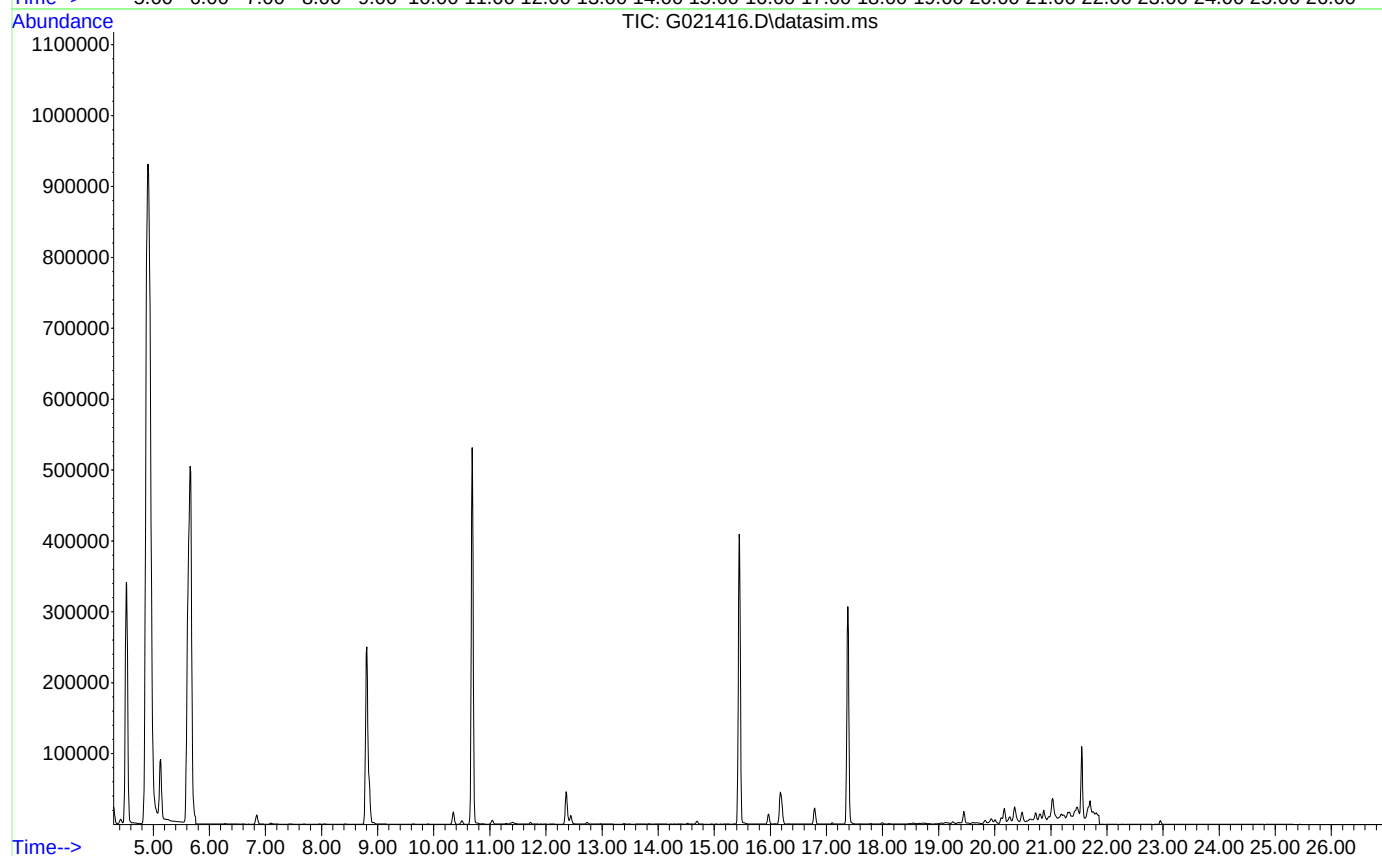
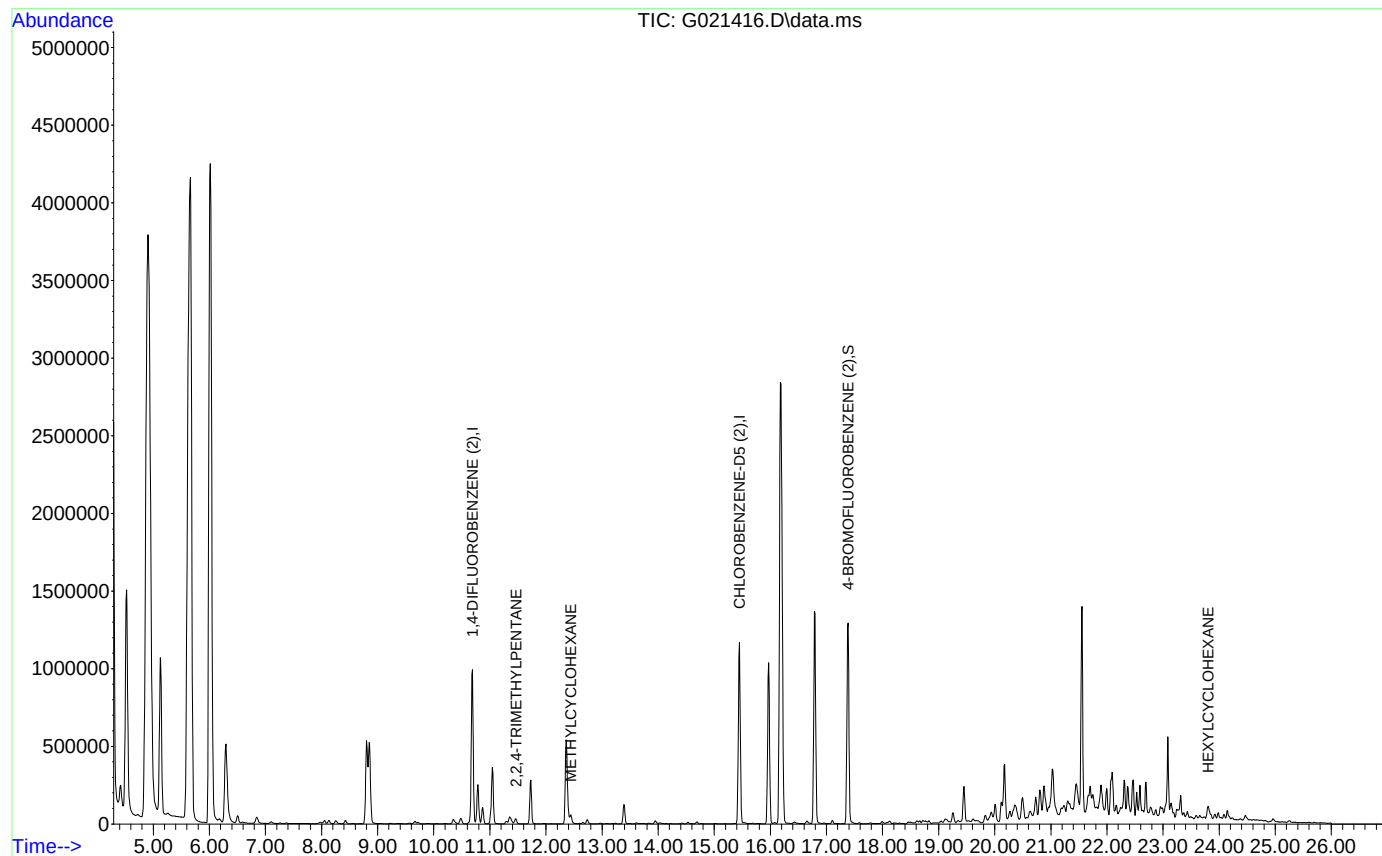
(#) = qualifier out of range (m) = manual integration (+) = signals summed

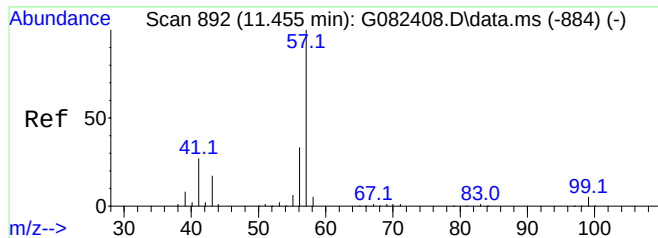
Data File : C:\msdchem\1\data\G021412\G021416.D
Acq On : 14 Feb 2012 10:19 pm
Sample : 12B0323-11 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:15:21 2012

Vial: 8
Operator: WSD
Inst : SYSG
Multiplr: 1.00

322

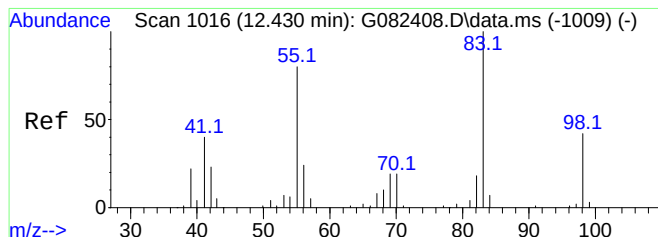
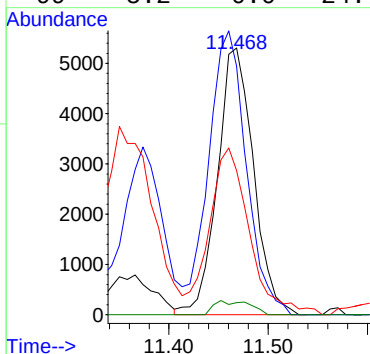
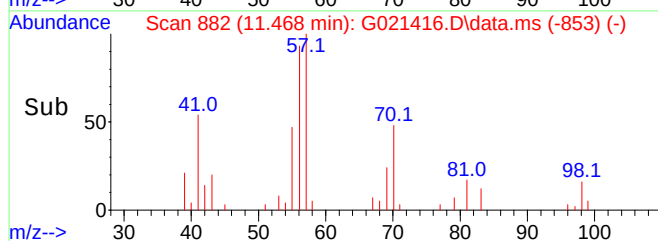
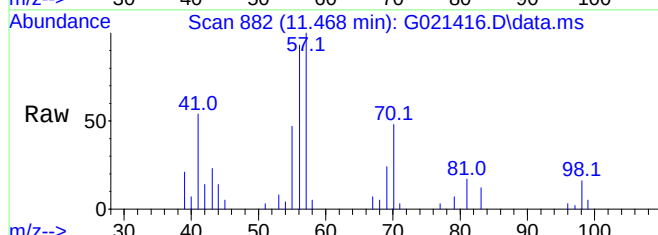
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





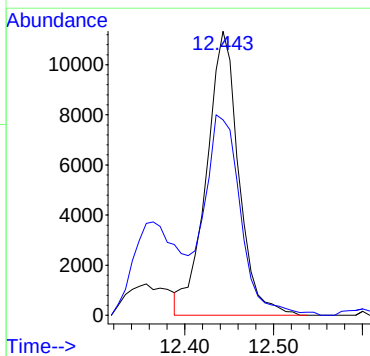
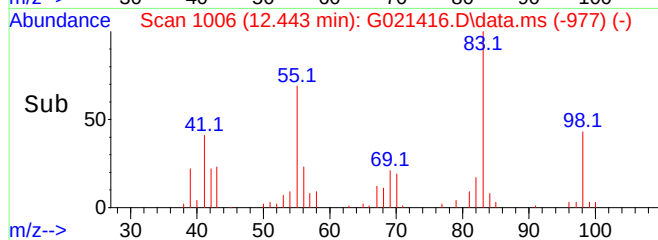
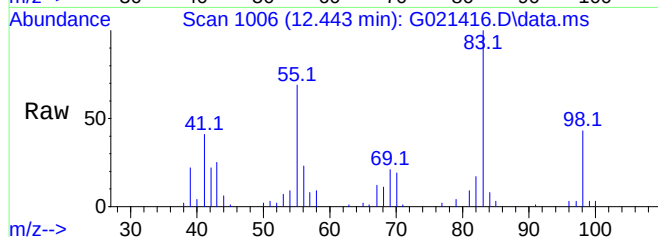
#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.08 PPBV
RT: 11.468 min Scan# 882
Delta R.T. 0.029 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

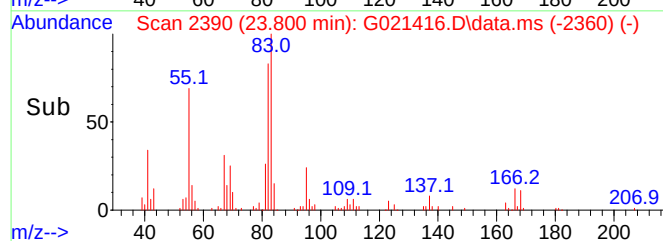
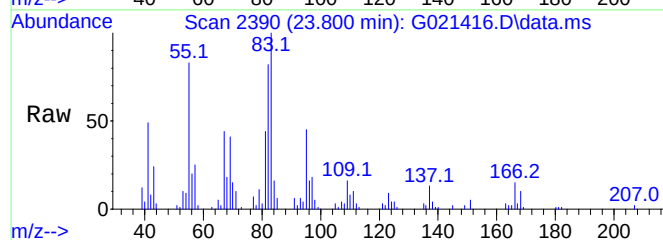
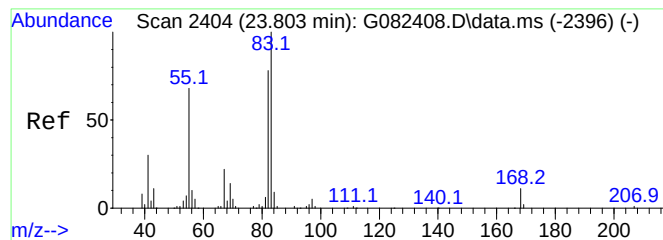
Tgt Ion: 57 Resp: 13355
Ion Ratio Lower Upper
57 100
56 111.3 13.7 53.7#
41 69.6 5.8 45.8#
99 5.2 0.0 24.7



#6
METHYLCYCLOHEXANE
Concen: 0.44 PPBV
RT: 12.443 min Scan# 1006
Delta R.T. 0.029 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

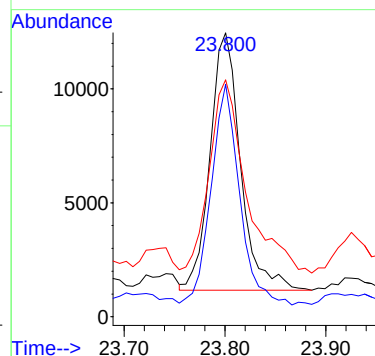
Tgt Ion: 83 Resp: 28608
Ion Ratio Lower Upper
83 100
55 78.8 60.5 100.5





#20
HEXYLCYCLOHEXANE
Concen: 0.18 PPBV
RT: 23.800 min Scan# 2390
Delta R.T. -0.002 min
Lab File: G021416.D
Acq: 14 Feb 2012 10:19 pm

Tgt Ion: 83 Resp: 23765
Ion Ratio Lower Upper
83 100
82 77.9 57.8 97.8
55 90.6 46.4 86.4#



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-05

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-11RE1	File ID:	G021508.D		
Sampled:	02/08/12 16:41	Prepared:	02/15/12 11:59	Analyzed:	02/15/12 16:31		
Solids:		Preparation:	TO-15 Prep	Dilution:	20		
Initial/Final:	400 mL / 400 mL						
Batch:	B046266	Sequence:	S001786	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
64-17-5	Ethanol	1000	4.7	40	

Data File : C:\msdchem\1\data\G021512\G021508.D Vial: 8
 Acq On : 15 Feb 2012 4:31 pm Operator: WSD
 Sample : 12B0323-11 20x Inst : SYSG
 Misc : 1.5,1,400,30,20x Multiplr: 1.00
 Quant Time: Feb 15 16:59:22 2012

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	259633	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	820019	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	751483	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.376	174	445588	8.71	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	108.88%
Target Compounds						
2) PROPENE	4.489	41	15597	0.916	PPBV	# Qvalue 64
11) ACETONE	5.998	43	426835	16.904	PPBV	92
13) ETHANOL	5.574	45	267774	50.395	PPBV	98
21) IPA	6.267	45	24383	0.918	PPBV	84
53) M/P-XYLENE	16.177	91	57311	0.507	PPBV	96

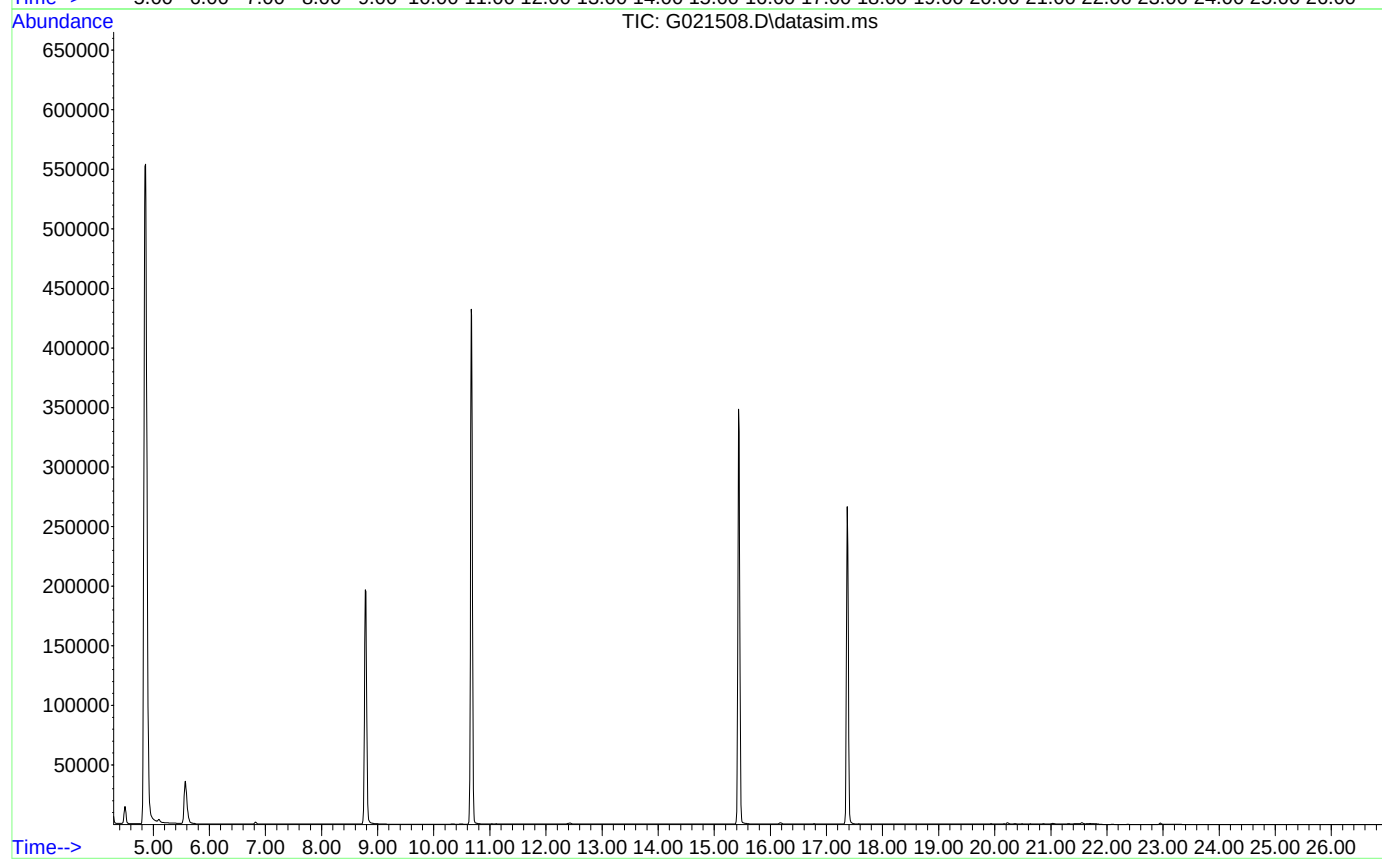
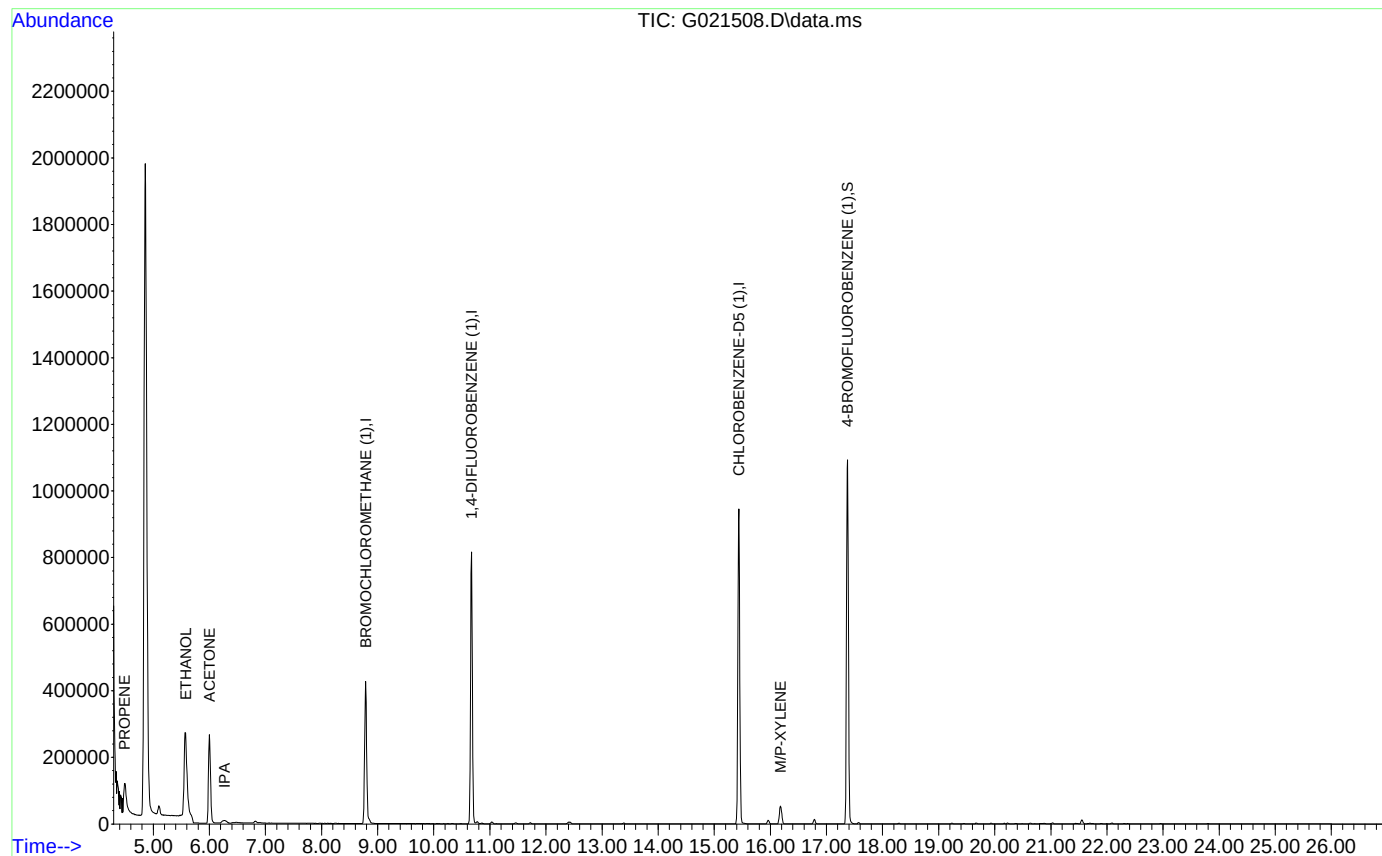
(#) = qualifier out of range (m) = manual integration (+) = signals summed

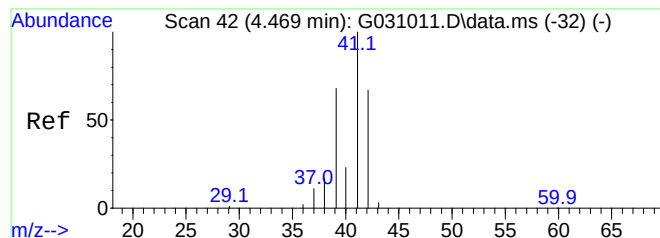
Data File : C:\msdchem\1\data\G021512\G021508.D
Acq On : 15 Feb 2012 4:31 pm
Sample : 12B0323-11 20x
Misc : 1.5,1,400,30,20x
Quant Time: Feb 15 16:59:22 2012

Vial: 8
Operator: WSD
Inst : SYSG
Multiplr: 1.00

327

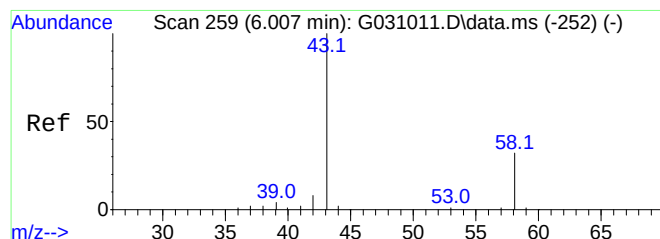
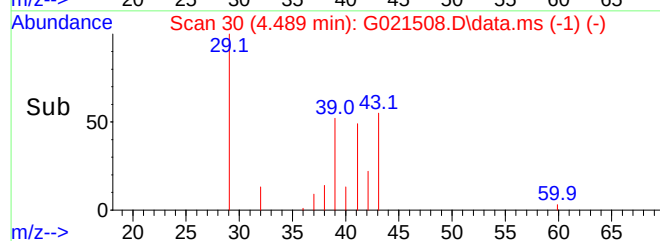
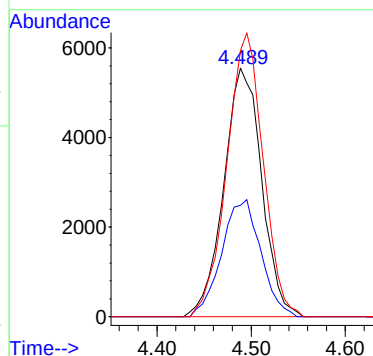
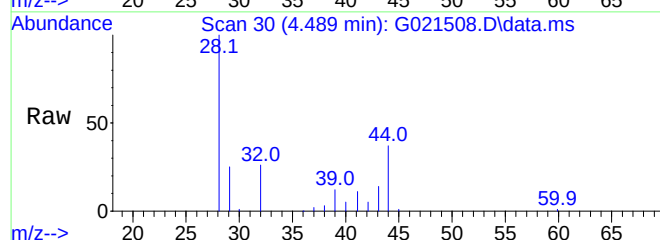
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





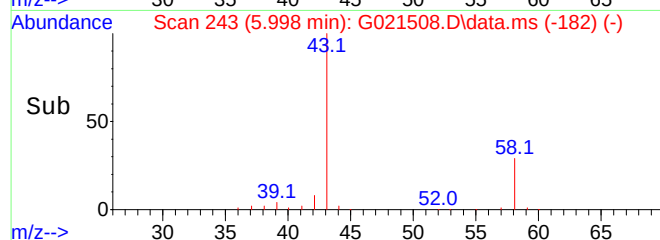
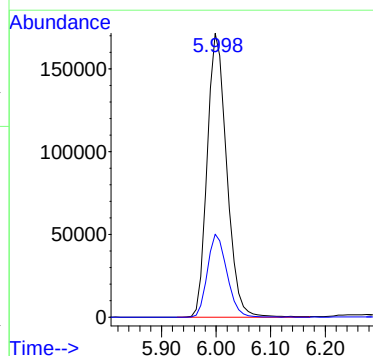
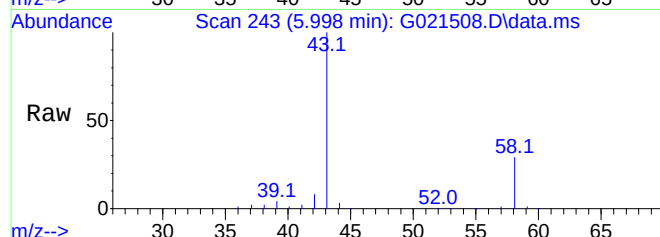
#2
PROPENE
Concen: 0.92 PPBV
RT: 4.489 min Scan# 30
Delta R.T. 0.021 min
Lab File: G021508.D
Acq: 15 Feb 2012 4:31 pm

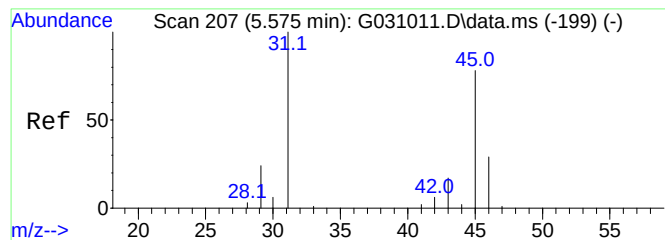
Tgt Ion: 41 Resp: 15597
Ion Ratio Lower Upper
41 100
42 48.7 46.4 86.4
39 109.5 48.8 88.8#



#11
ACETONE
Concen: 16.90 PPBV
RT: 5.998 min Scan# 243
Delta R.T. -0.009 min
Lab File: G021508.D
Acq: 15 Feb 2012 4:31 pm

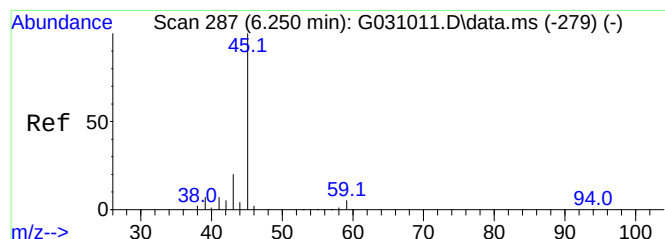
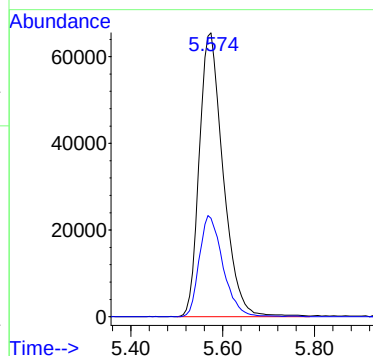
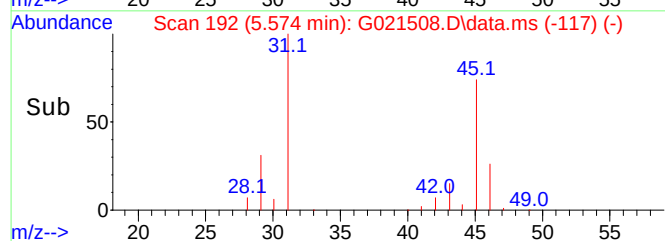
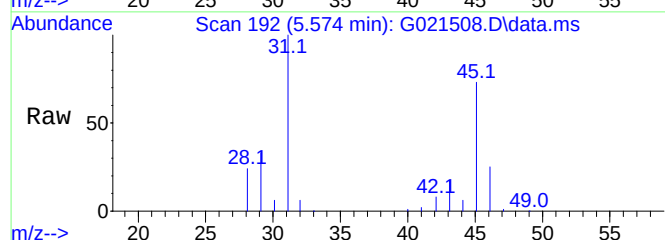
Tgt Ion: 43 Resp: 426835
Ion Ratio Lower Upper
43 100
58 29.2 13.9 53.9





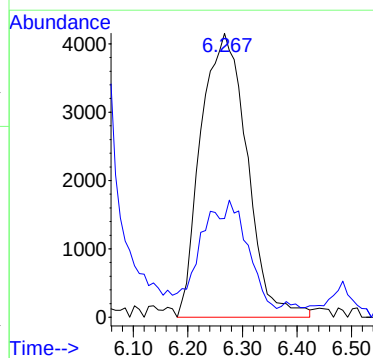
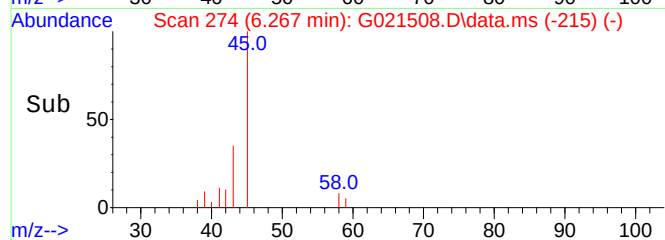
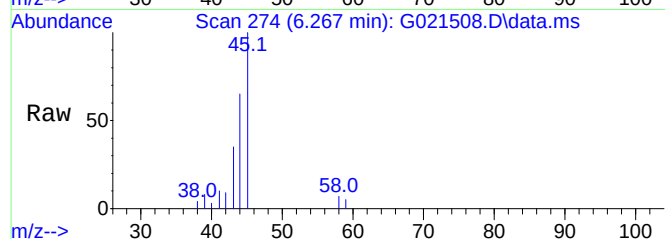
#13
ETHANOL
Concen: 50.40 PPBV
RT: 5.574 min Scan# 192
Delta R.T. 0.000 min
Lab File: G021508.D
Acq: 15 Feb 2012 4:31 pm

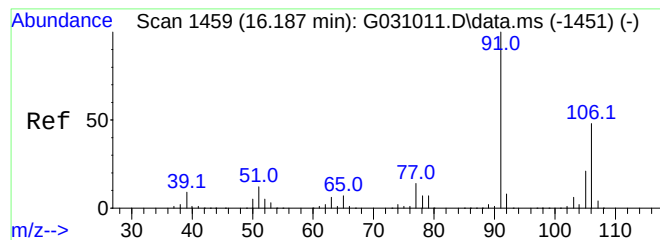
Tgt Ion: 45 Resp: 267774
Ion Ratio Lower Upper
45 100
46 33.0 14.0 54.0



#21
IPA
Concen: 0.92 PPBV
RT: 6.267 min Scan# 274
Delta R.T. 0.017 min
Lab File: G021508.D
Acq: 15 Feb 2012 4:31 pm

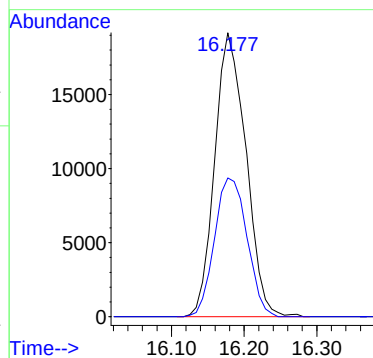
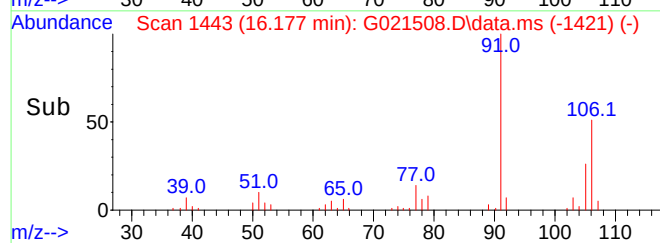
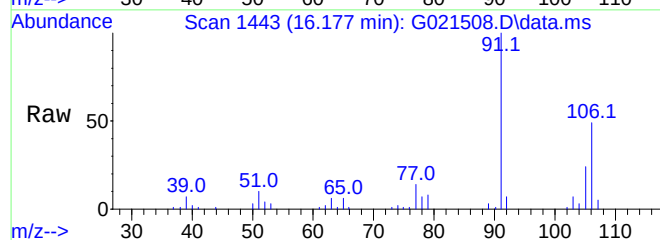
Tgt Ion: 45 Resp: 24383
Ion Ratio Lower Upper
45 100
43 13.0 0.6 40.6





#53
M/P-XYLENE
Concen: 0.51 PPBV
RT: 16.177 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021508.D
Acq: 15 Feb 2012 4:31 pm

Tgt Ion: 91 Resp: 57311
Ion Ratio Lower Upper
91 100
106 51.0 28.3 68.3



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-06

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-12 File ID: G021218.D
 Sampled: 02/08/12 17:02 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 12:53
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform		0.036	0.10	
74-87-3	Chloromethane		0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	8.2	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-06

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-12 File ID: G021218.D
 Sampled: 02/08/12 17:02 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 12:53
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol		0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	2.1	0.030	0.10	
108-88-3	Toluene		0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane	0.16	0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene	0.38	0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	1.5	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-06

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-12	File ID:	G021218.D		
Sampled:	02/08/12 17:02	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 12:53		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021218.D
 Acq On : 13 Feb 2012 12:53 pm
 Sample : 12B0323-12 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 13:40:06 2012

Vial: 11
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	292403	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	909351	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	819332	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	460468	8.25	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.13%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.542	85	235269	4.105	PPBV	Qvalue 100
11) ACETONE	6.024	43	107778	3.790	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.154	101	33331	0.730	PPBV	98
13) ETHANOL	5.601	45	10906	1.822	PPBV	100
15) METHYLENE CHLORIDE	6.823	49	6276	0.197	PPBV	84
17) CARBON DISULFIDE	7.118	76	18359	0.226	PPBV	95
21) IPA	6.285	45	24649	0.824	PPBV	68
22) 2-BUTANONE(MEK)	8.282	43	7083	0.123	PPBV	95
31) 1,1,1-TRICHLOROETHANE	9.881	97	4854	0.080	PPBV	99
37) TRICHLOROETHENE	11.397	95	8655	0.188	PPBV	96
50) TETRACHLOROETHENE	14.683	166	55210	1.038	PPBV	97

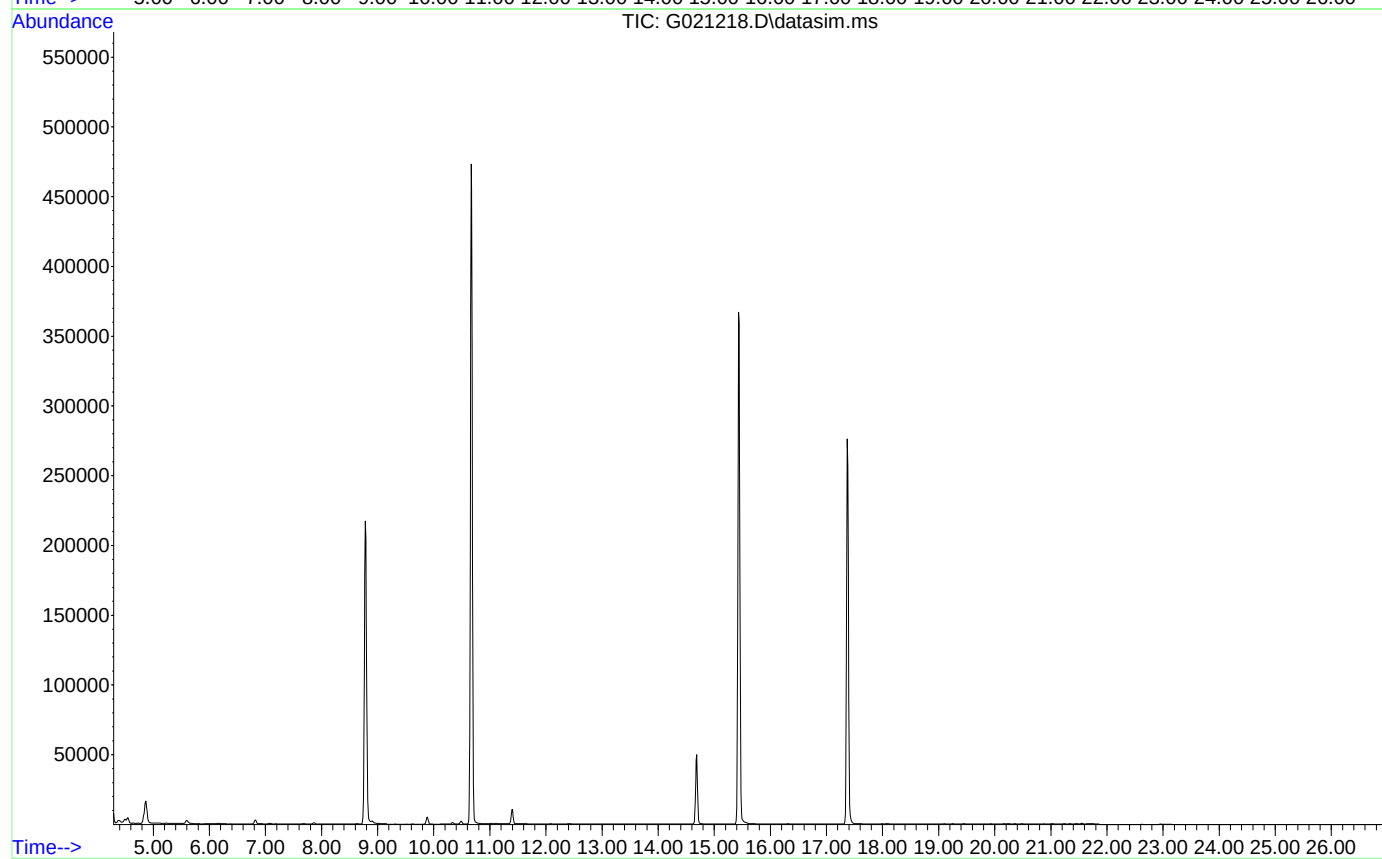
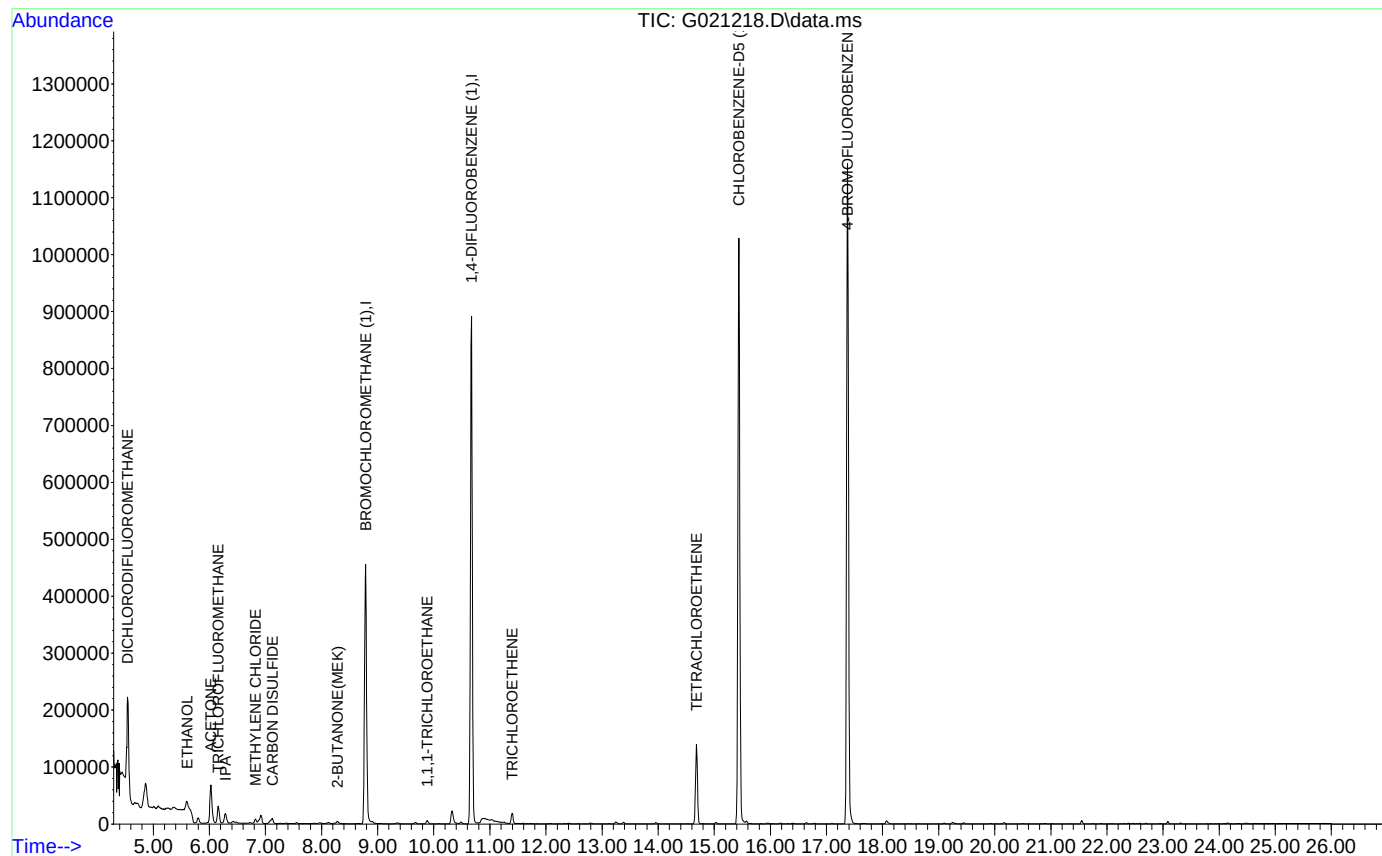
(#) = qualifier out of range (m) = manual integration (+) = signals summed

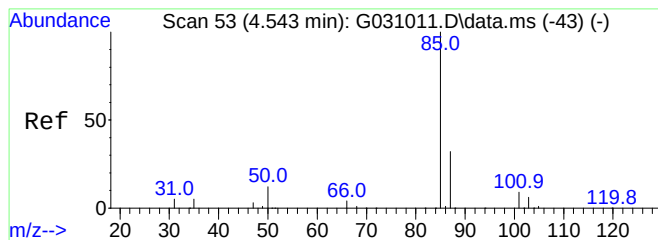
Data File : C:\msdchem\1\data\G021212\G021218.D
Acq On : 13 Feb 2012 12:53 pm
Sample : 12B0323-12 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 13:40:06 2012

Vial: 11
Operator: TPH
Inst : SYSG
Multiplr: 1.00

335

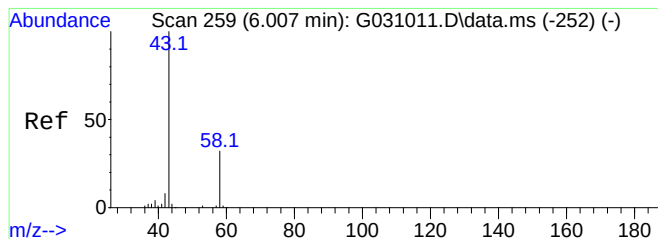
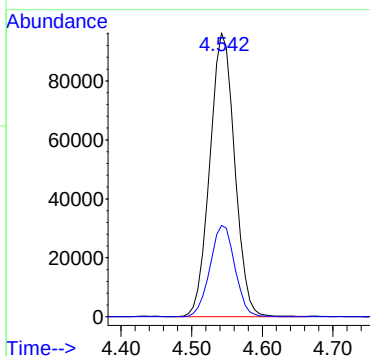
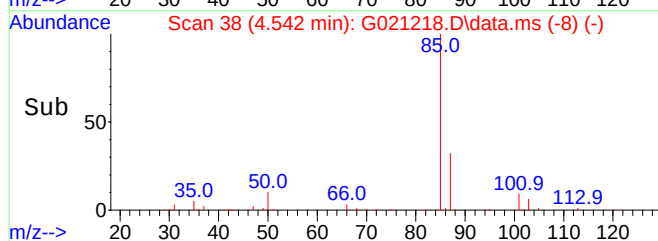
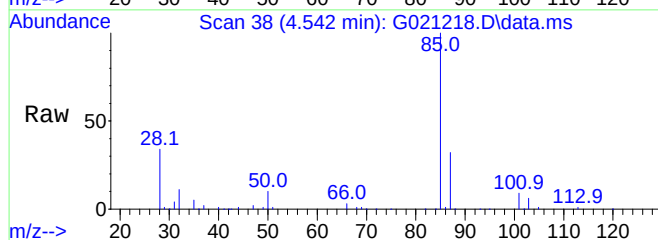
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





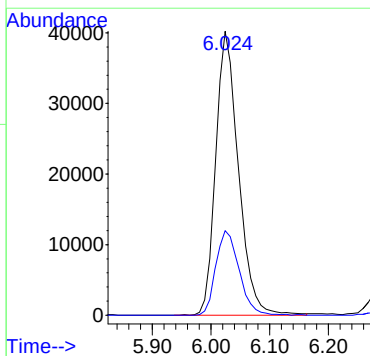
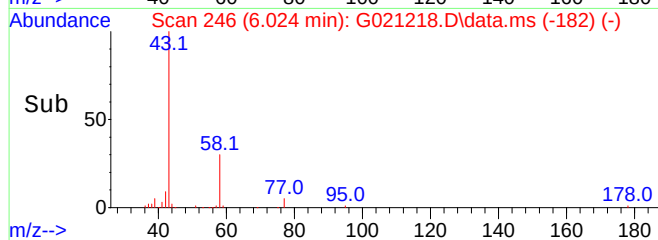
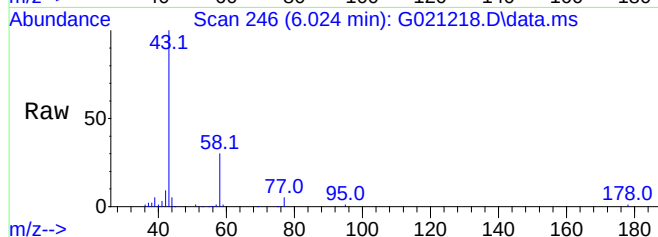
#3
DICHLORODIFLUOROMETHANE
Concen: 4.11 PPBV
RT: 4.542 min Scan# 38
Delta R.T. -0.000 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

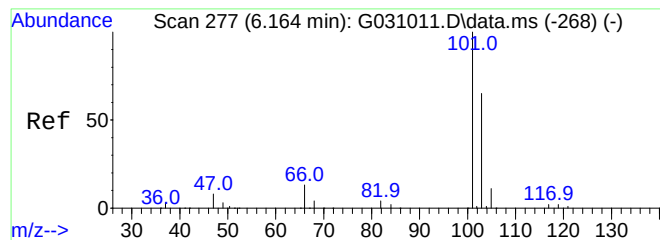
Tgt Ion: 85 Resp: 235269
Ion Ratio Lower Upper
85 100
87 32.2 12.1 52.1



#11
ACETONE
Concen: 3.79 PPBV
RT: 6.024 min Scan# 246
Delta R.T. 0.017 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

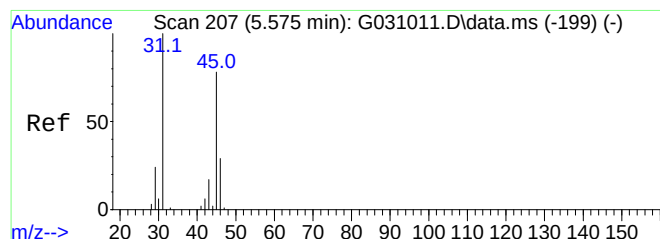
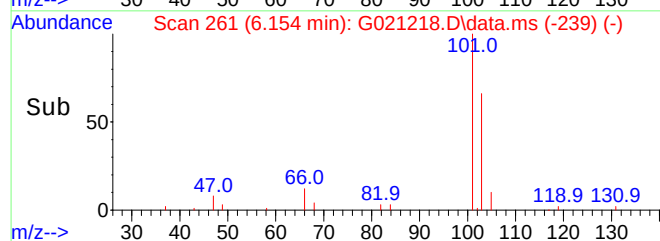
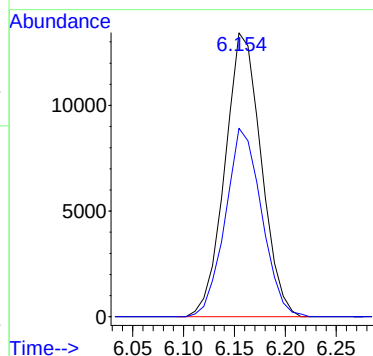
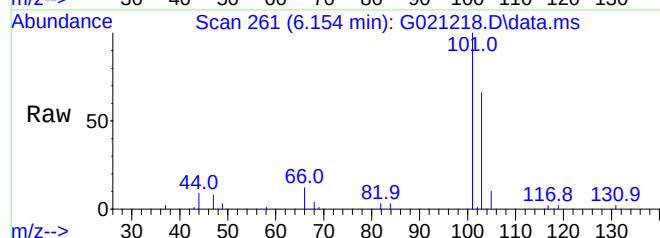
Tgt Ion: 43 Resp: 107778
Ion Ratio Lower Upper
43 100
58 30.6 13.9 53.9





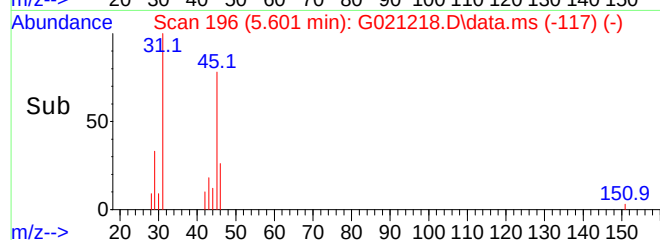
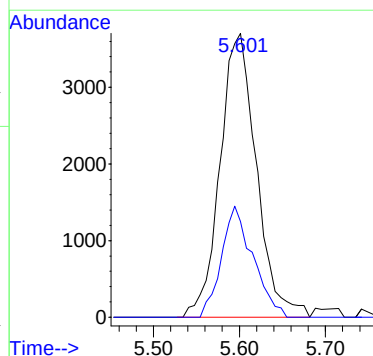
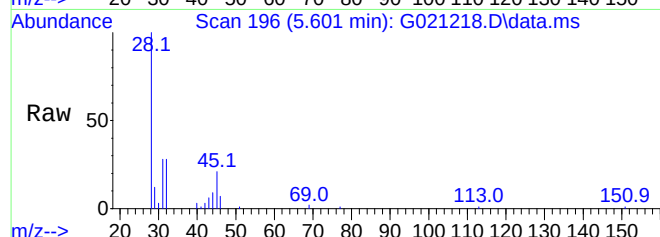
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.73 PPBV
 RT: 6.154 min Scan# 261
 Delta R.T. -0.009 min
 Lab File: G021218.D
 Acq: 13 Feb 2012 12:53 pm

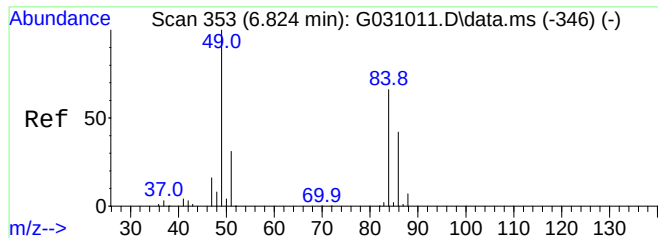
Tgt Ion: 101 Resp: 33331
 Ion Ratio Lower Upper
 101 100
 103 66.4 44.8 84.8



#13
 ETHANOL
 Concen: 1.82 PPBV
 RT: 5.601 min Scan# 196
 Delta R.T. 0.027 min
 Lab File: G021218.D
 Acq: 13 Feb 2012 12:53 pm

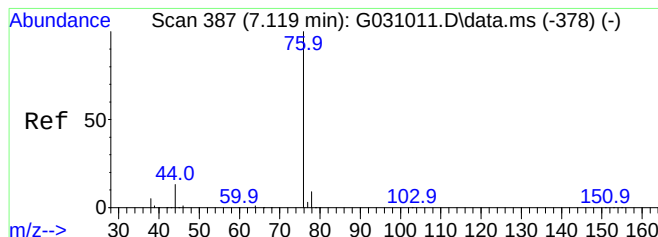
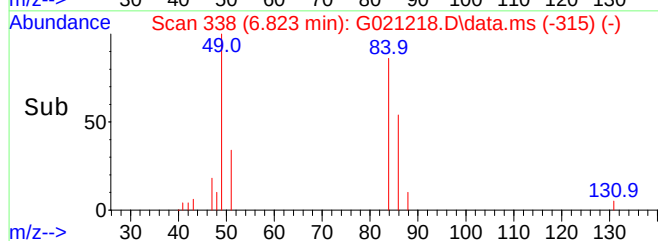
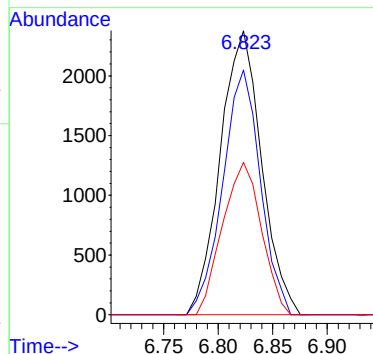
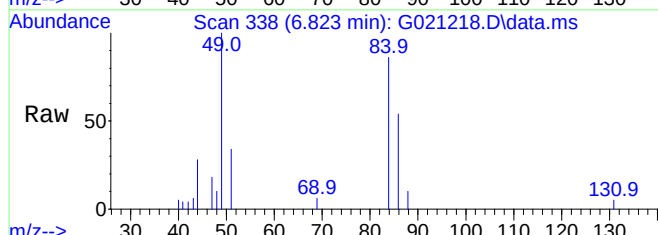
Tgt Ion: 45 Resp: 10906
 Ion Ratio Lower Upper
 45 100
 46 33.9 14.0 54.0





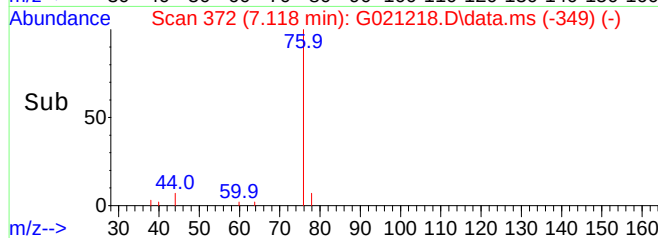
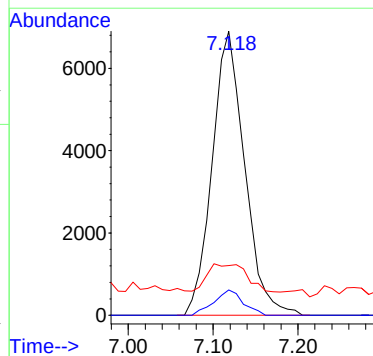
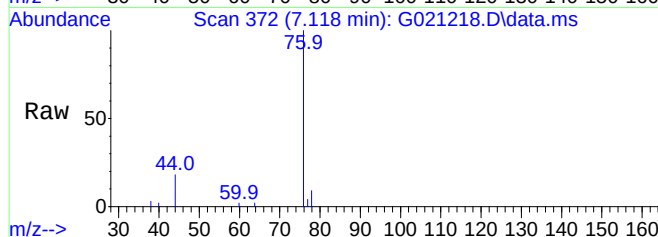
#15
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

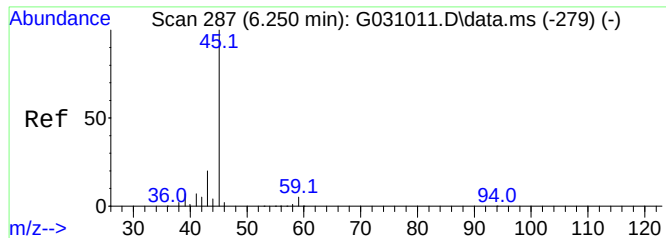
Tgt Ion: 49 Resp: 6276
Ion Ratio Lower Upper
49 100
84 78.6 45.2 85.2
86 50.5 21.4 61.4



#17
CARBON DISULFIDE
Concen: 0.23 PPBV
RT: 7.118 min Scan# 372
Delta R.T. -0.000 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

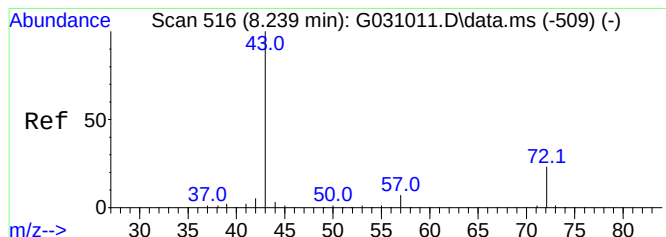
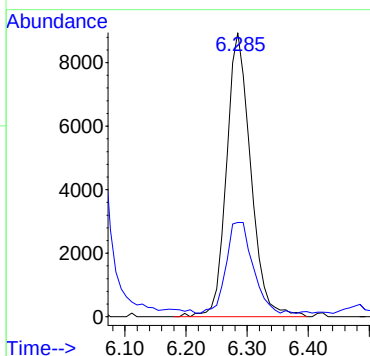
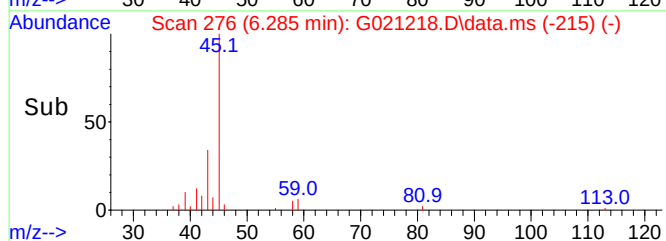
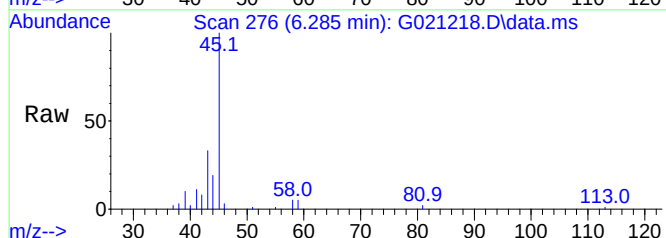
Tgt Ion: 76 Resp: 18359
Ion Ratio Lower Upper
76 100
78 8.0 0.0 30.7
44 12.1 0.0 33.4





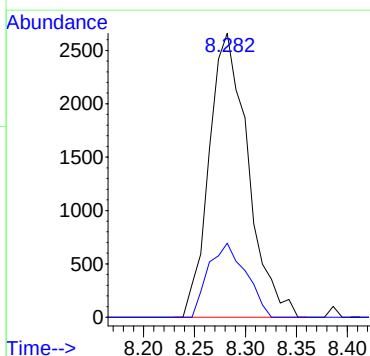
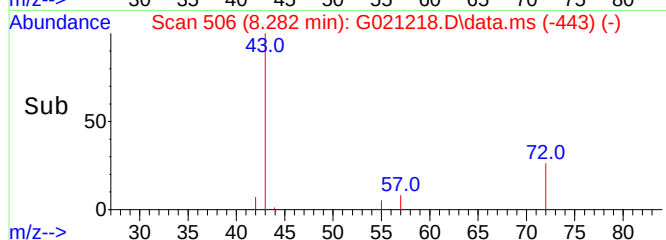
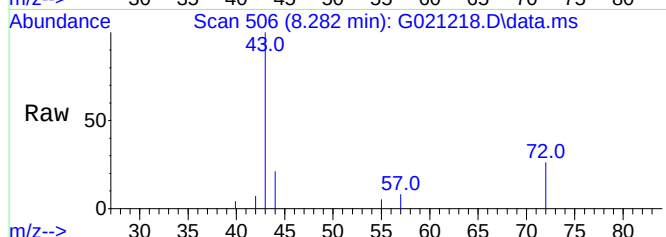
#21
IPA
Concen: 0.82 PPBV
RT: 6.285 min Scan# 276
Delta R.T. 0.035 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

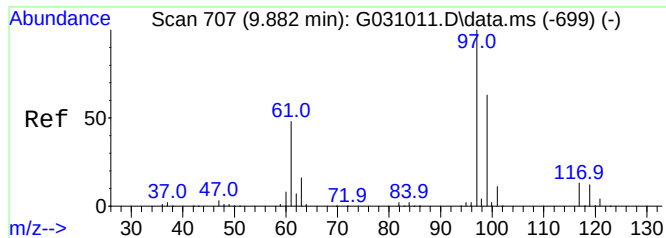
Tgt Ion: 45 Resp: 24649
Ion Ratio Lower Upper
45 100
43 35.7 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.12 PPBV
RT: 8.282 min Scan# 506
Delta R.T. 0.043 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

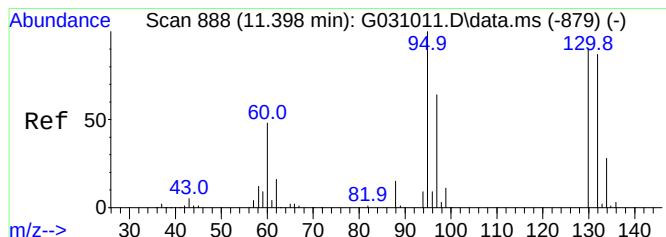
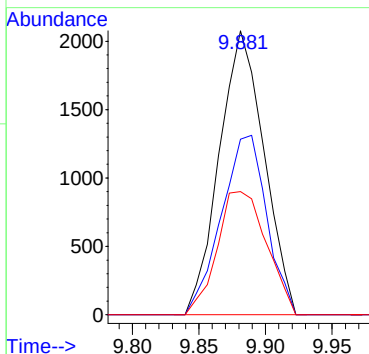
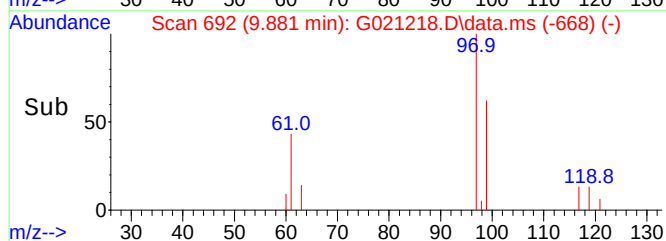
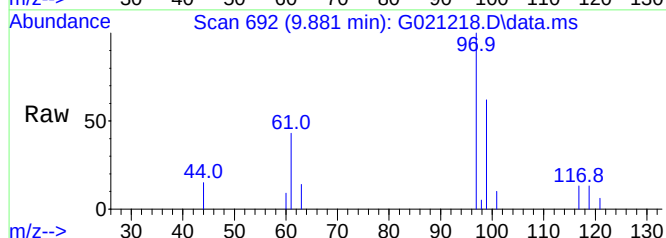
Tgt Ion: 43 Resp: 7083
Ion Ratio Lower Upper
43 100
72 25.2 2.6 42.6





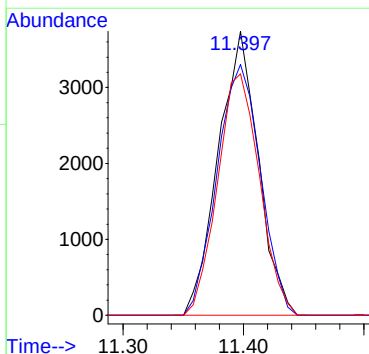
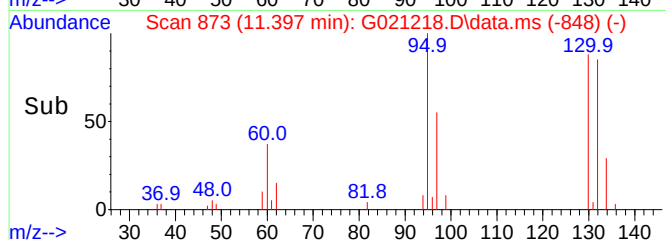
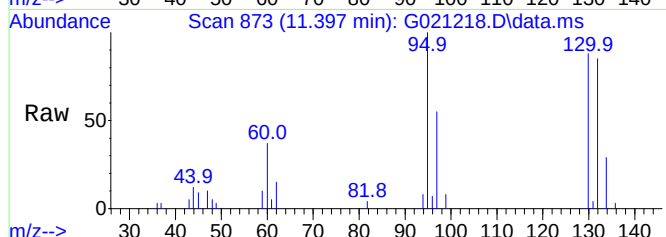
#31
1,1,1-TRICHLOROETHANE
Concen: 0.08 PPBV
RT: 9.881 min Scan# 692
Delta R.T. -0.000 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

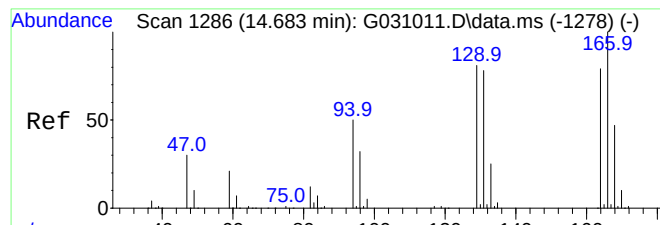
Tgt Ion: 97 Resp: 4854
Ion Ratio Lower Upper
97 100
99 64.1 43.7 83.7
61 47.9 28.6 68.6



#37
TRICHLOROETHENE
Concen: 0.19 PPBV
RT: 11.397 min Scan# 873
Delta R.T. -0.000 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

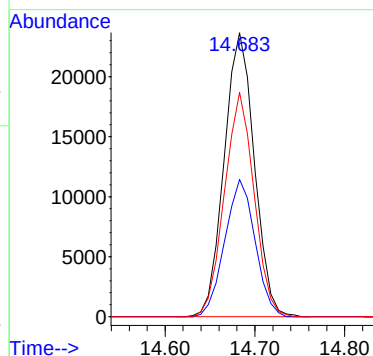
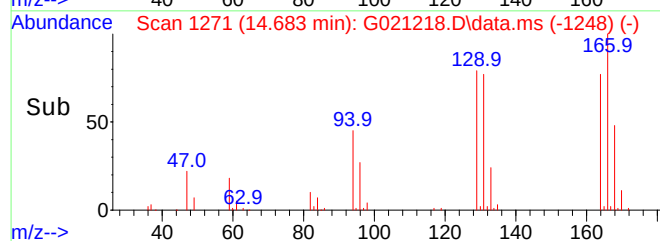
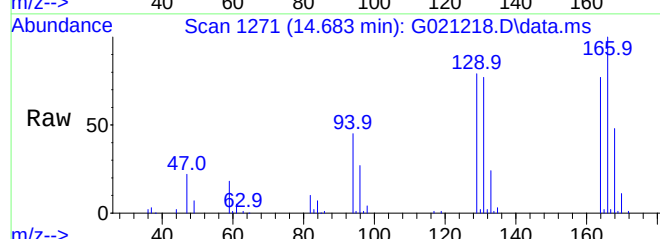
Tgt Ion: 95 Resp: 8655
Ion Ratio Lower Upper
95 100
130 95.6 71.2 111.2
132 89.2 66.9 106.9





#50
TETRACHLOROETHENE
Concen: 1.04 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.000 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

Tgt Ion:166 Resp: 55210
Ion Ratio Lower Upper
166 100
168 48.4 27.0 67.0
129 77.3 60.6 100.6



Data File : C:\msdchem\1\data\G021212\G021218.D
 Acq On : 13 Feb 2012 12:53 pm
 Sample : 12B0323-12 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 12:56:48 2012

Vial: 11
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	908939	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	164352	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	596658	9.59	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	119.88%
Target Compounds						
2) ACRYLONITRILE	6.424	53	3329	0.202	PPBV	98
4) TERT-BUTYL ALCOHOL	6.884	59	5913	0.112	PPBV #	61

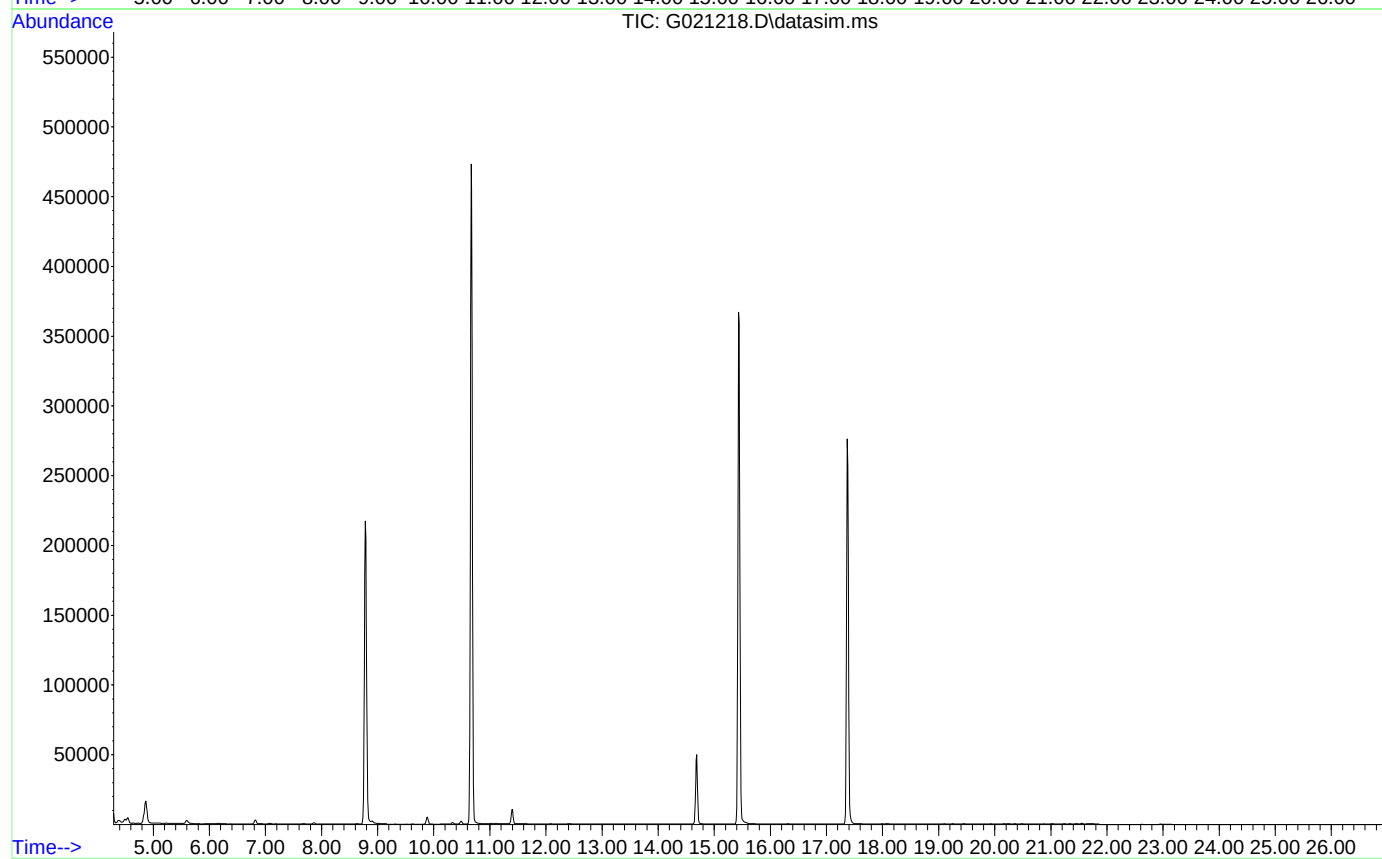
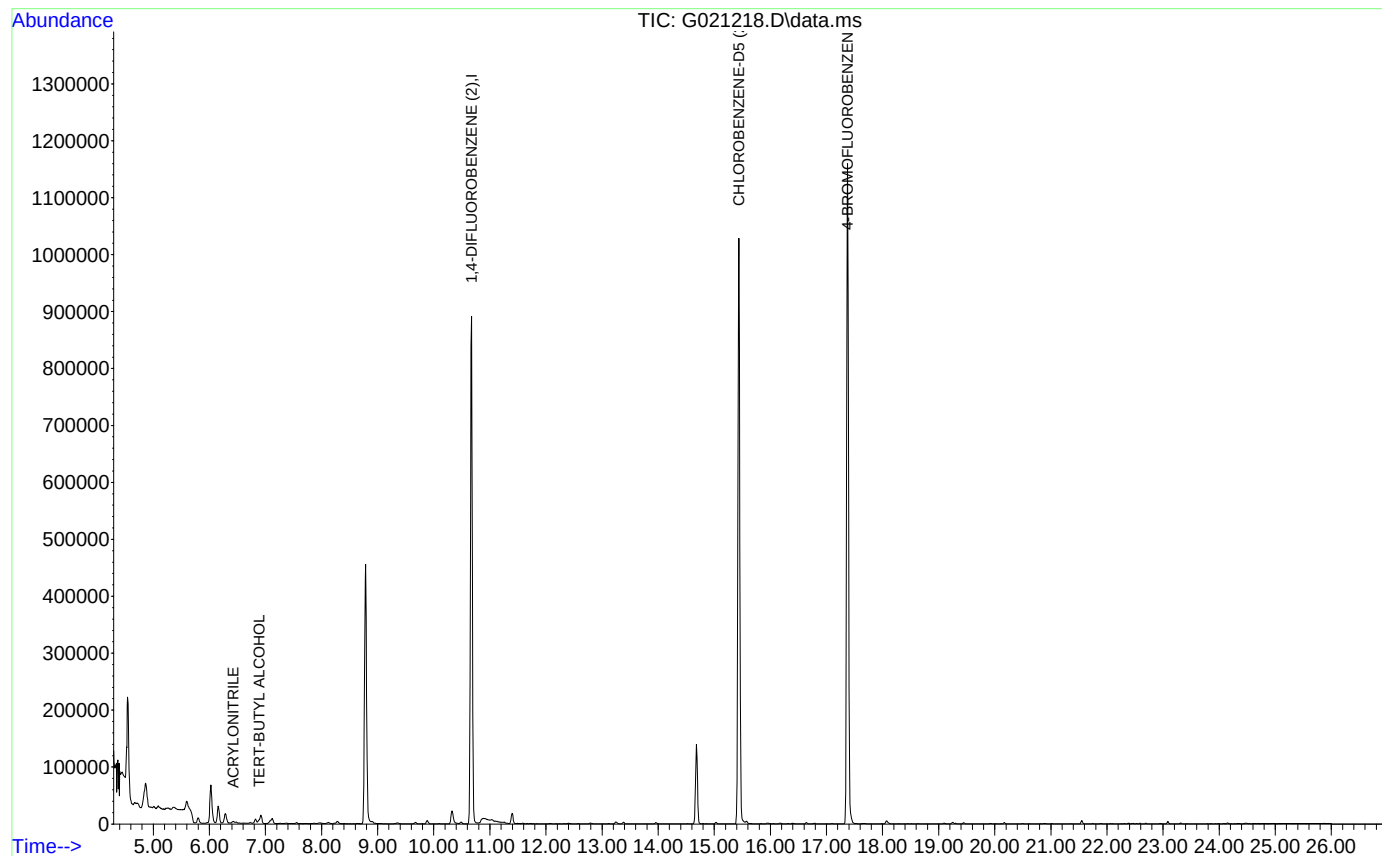
(#) = qualifier out of range (m) = manual integration (+) = signals summed

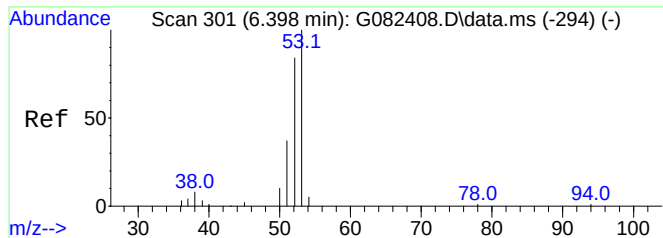
Data File : C:\msdchem\1\data\G021212\G021218.D
Acq On : 13 Feb 2012 12:53 pm
Sample : 12B0323-12 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:48 2012

Vial: 11
Operator: TPH
Inst : SYSG
Multiplr: 1.00

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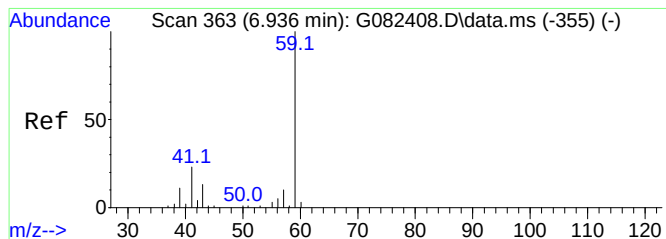
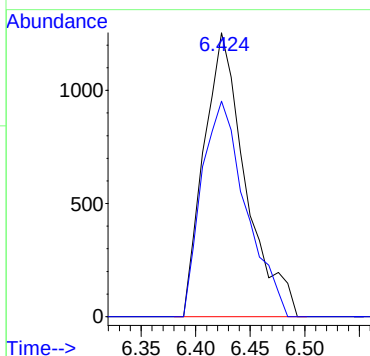
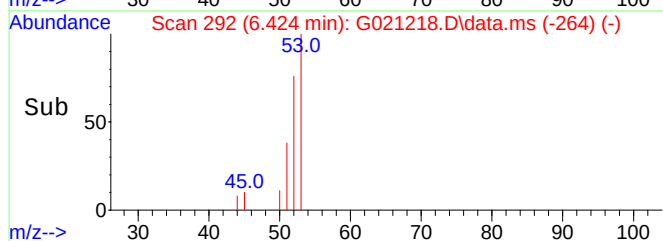
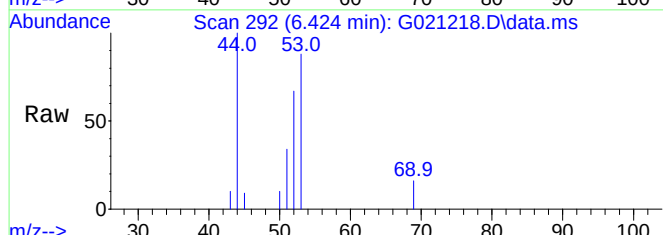
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





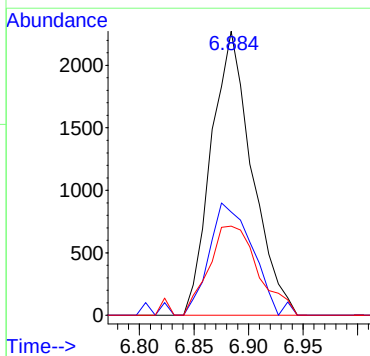
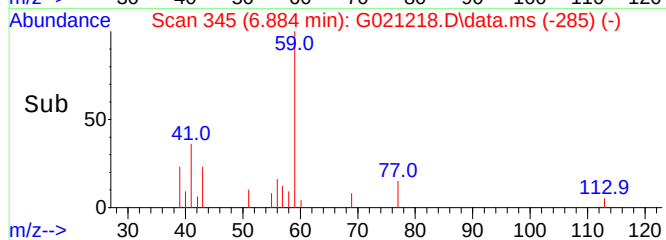
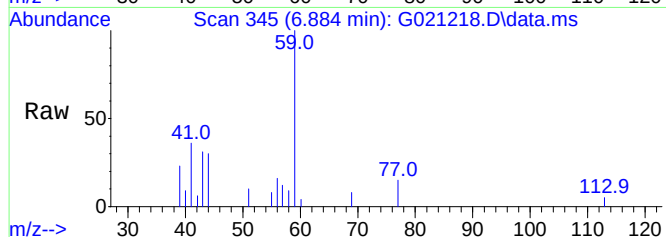
#2
ACRYLONITRILE
Concen: 0.20 PPBV
RT: 6.424 min Scan# 292
Delta R.T. 0.043 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

Tgt Ion: 53 Resp: 3329
Ion Ratio Lower Upper
53 100
52 80.5 62.2 102.2



#4
TERT-BUTYL ALCOHOL
Concen: 0.11 PPBV
RT: 6.884 min Scan# 345
Delta R.T. 0.024 min
Lab File: G021218.D
Acq: 13 Feb 2012 12:53 pm

Tgt Ion: 59 Resp: 5913
Ion Ratio Lower Upper
59 100
41 42.2 7.9 47.9
43 38.0 0.0 32.8#



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-06

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-13 File ID: G021417.D
 Sampled: 02/08/12 17:02 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 23:04
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.21	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.069	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform	0.12	0.013	0.035	
74-87-3	Chloromethane	0.46	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.52	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-06

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-13 File ID: G021417.D
 Sampled: 02/08/12 17:02 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 23:04
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	5.7	0.17	1.4	
100-41-4	Ethylbenzene	0.087	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.80	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.12	0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene	0.085	0.011	0.035	
108-88-3	Toluene	0.76	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.21	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.084	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene	0.38	0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene	0.12	0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-06

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Indoor air Laboratory ID: 12B0323-13 File ID: G021417.D
Sampled: 02/08/12 17:02 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 23:04
Solids: Preparation: TO-15 Prep Dilution: 0.702
Initial/Final: 400 mL / 400 mL
Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	0.38	0.018	0.070	
95-47-6	o-Xylene	0.17	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021417.D
 Acq On : 14 Feb 2012 11:04 pm
 Sample : 12B0323-13 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:57:02 2012

Vial: 9
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	325309	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1091489	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	981669	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	575687	8.61	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	107.63%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	4.542	85	47440	0.744	PPBV	99
4) CHLOROMETHANE	4.703	50	11974	0.653	PPBV	99
10) ACROLEIN	5.885	56	1300	0.170	PPBV	85
11) ACETONE	6.016	43	211366	6.681	PPBV	91
12) TRICHLOROFLUOROMETHANE	6.163	101	15170	0.299	PPBV	97
13) ETHANOL	5.581	45	53743	8.072	PPBV	98
15) METHYLENE CHLORIDE	6.823	49	40430	1.141	PPBV	77
16) FREON 113	7.075	101	6831	0.119	PPBV	84
21) IPA	6.267	45	46039	1.383	PPBV	84
22) 2-BUTANONE(MEK)	8.265	43	14718	0.230	PPBV	87
25) HEXANE	8.855	41	11701	0.352	PPBV	92
26) ETHYL ACETATE	8.873	61	1751	0.155	PPBV	85
27) CHLOROFORM	8.907	83	10858	0.167	PPBV	96
32) BENZENE	10.338	78	41027	0.303	PPBV	92
33) CARBON TETRACHLORIDE	10.488	117	6402	0.099	PPBV	100
41) MIBK	12.388	43	17838	0.175	PPBV	93
46) TOLUENE	13.388	91	159051	1.076	PPBV	100
50) TETRACHLOROETHENE	14.683	166	7733	0.121	PPBV	93
52) ETHYLBENZENE	15.960	91	23085	0.124	PPBV	96
53) M/P-XYLENE	16.178	91	79549	0.539	PPBV	97
56) O-XYLENE	16.786	91	35051	0.239	PPBV	95
59) 4-ETHYLTOLUENE	18.515	105	25367	0.130	PPBV	97
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	28242	0.176	PPBV	97
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	86991	0.545	PPBV	96
67) NAPHTHALENE	22.952	128	11405	0.054	PPBV	96

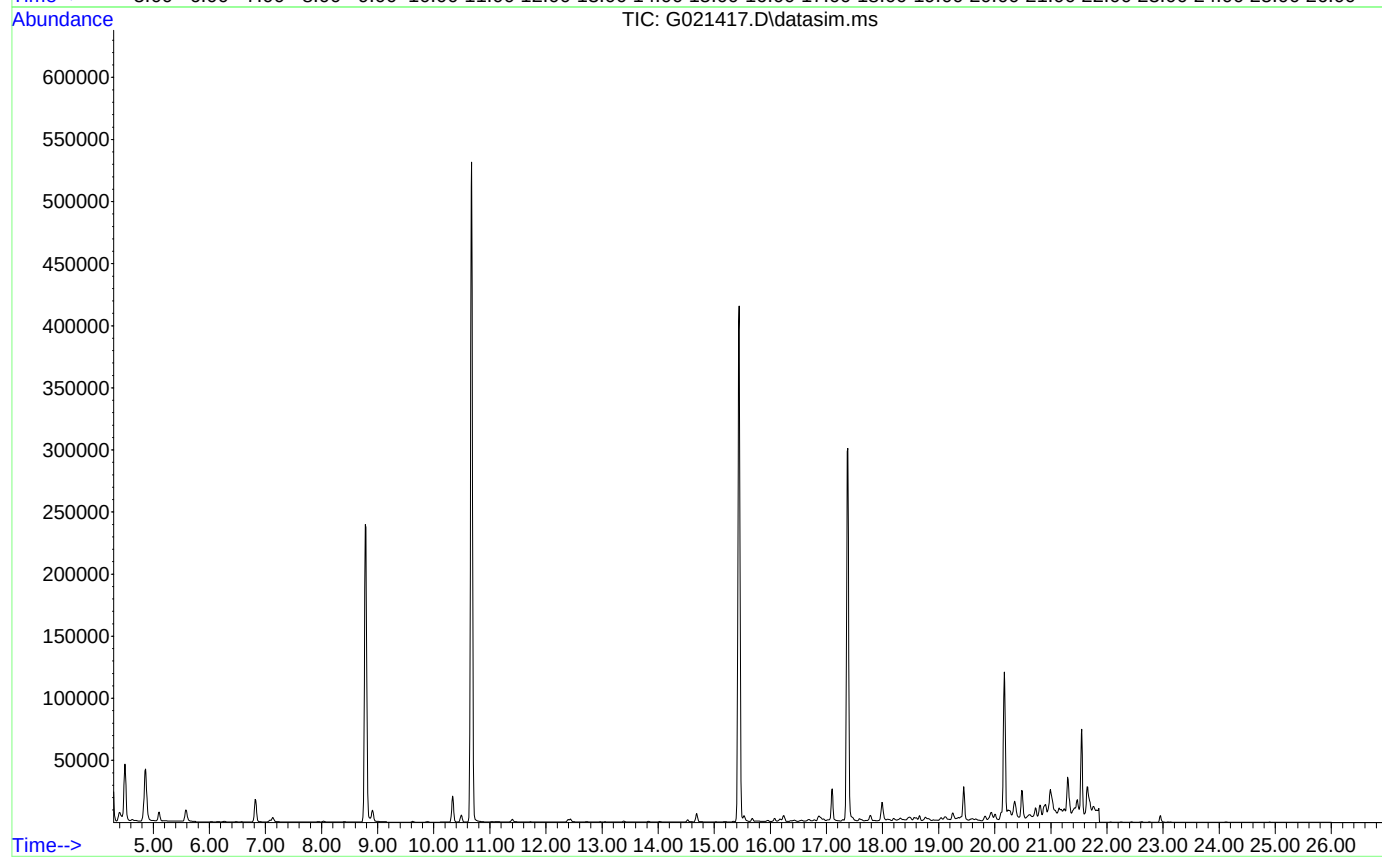
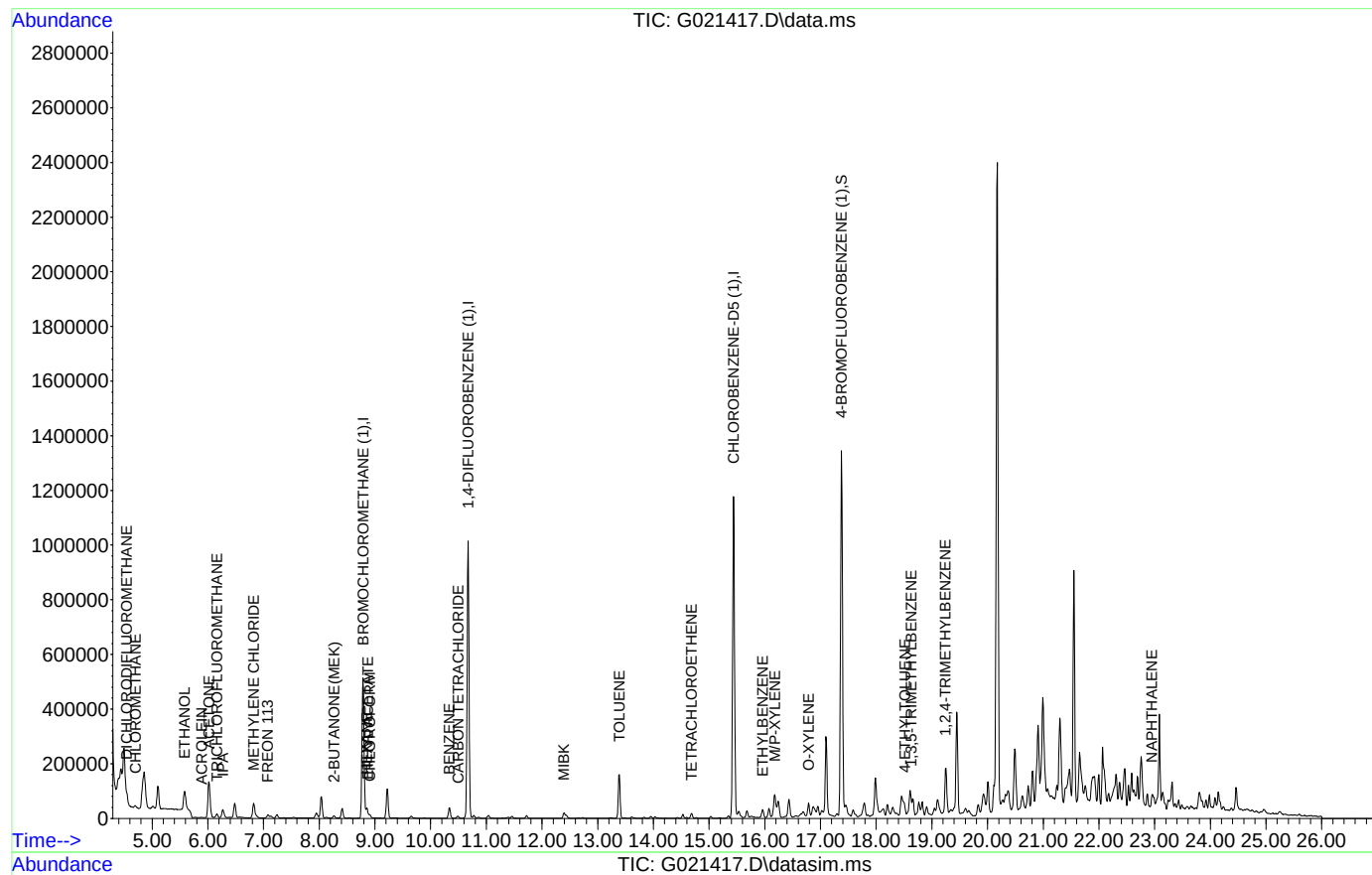
(#) = qualifier out of range (m) = manual integration (+) = signals summed

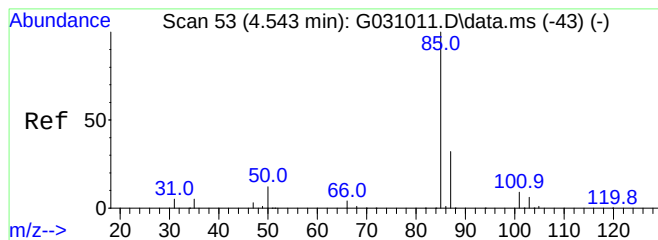
Data File : C:\msdchem\1\data\G021412\G021417.D
Acq On : 14 Feb 2012 11:04 pm
Sample : 12B0323-13 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:57:02 2012

Vial: 9
Operator: WSD
Inst : SYSG
Multiplr: 1.00

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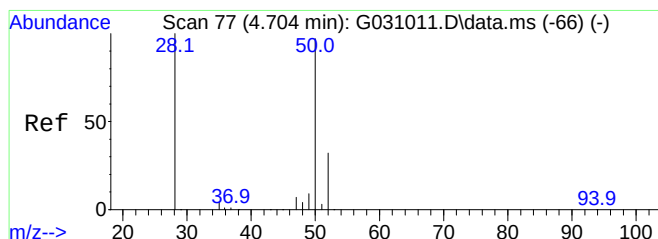
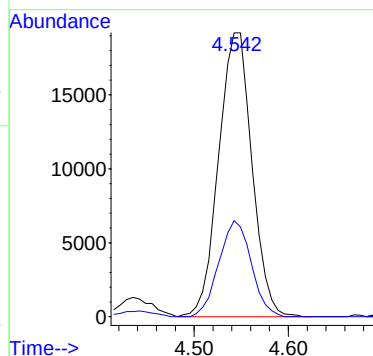
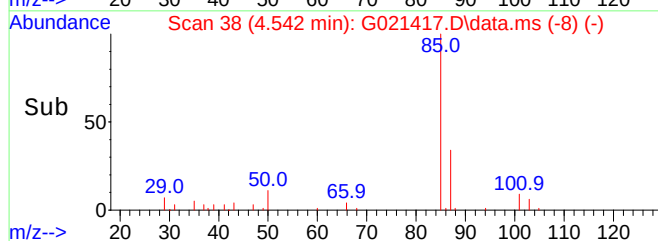
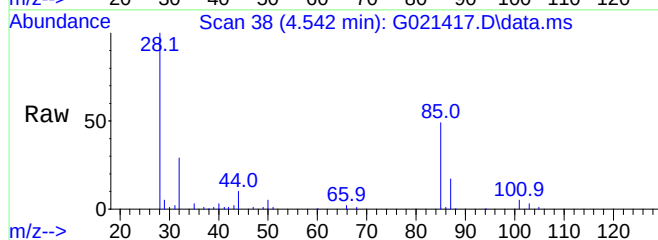
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





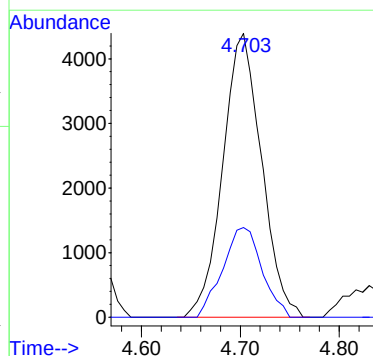
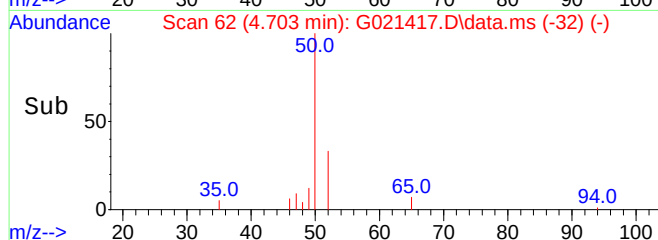
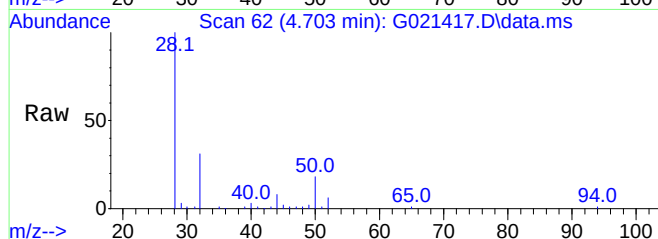
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.74 PPBV
 RT: 4.542 min Scan# 38
 Delta R.T. -0.000 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

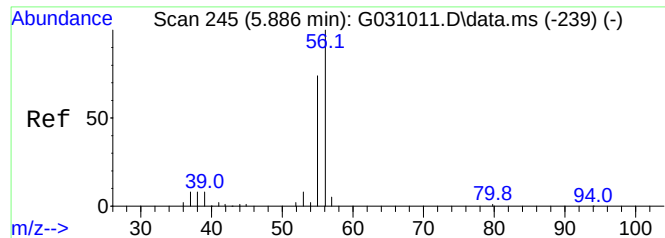
Tgt Ion: 85 Resp: 47440
 Ion Ratio Lower Upper
 85 100
 87 32.8 12.1 52.1



#4
 CHLOROMETHANE
 Concen: 0.65 PPBV
 RT: 4.703 min Scan# 62
 Delta R.T. -0.000 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

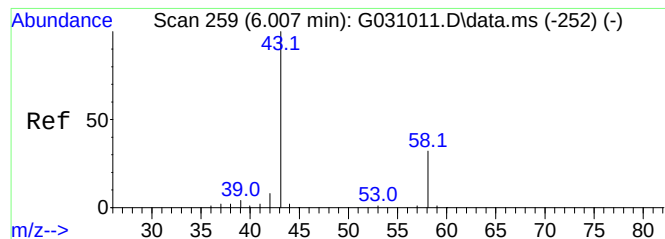
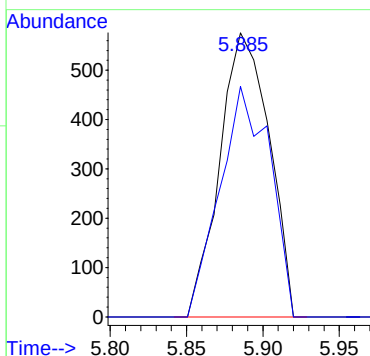
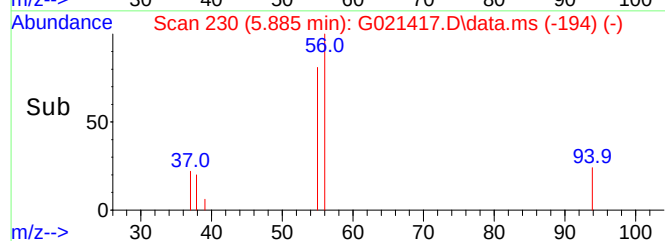
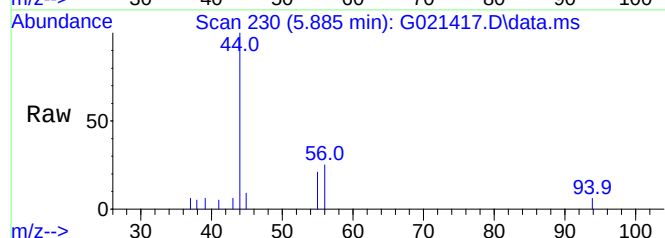
Tgt Ion: 50 Resp: 11974
 Ion Ratio Lower Upper
 50 100
 52 32.0 12.8 52.8





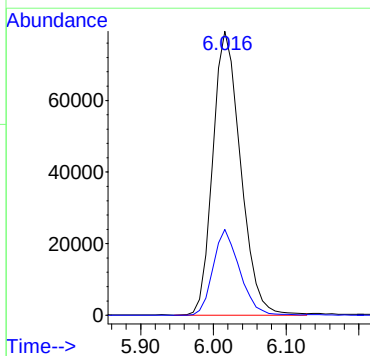
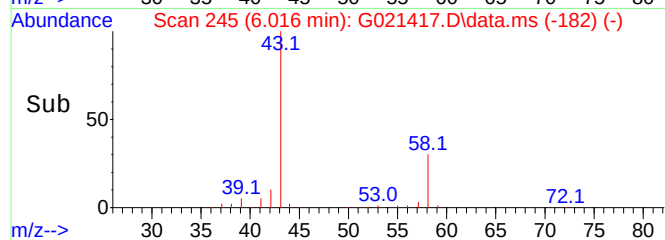
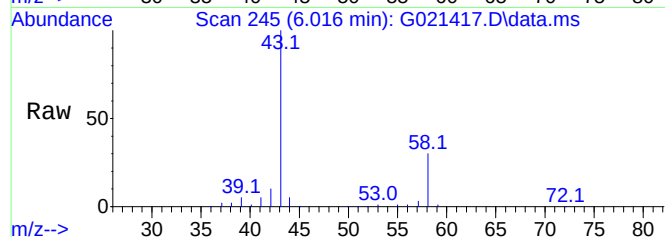
#10
ACROLEIN
Concen: 0.17 PPBV
RT: 5.885 min Scan# 230
Delta R.T. 0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

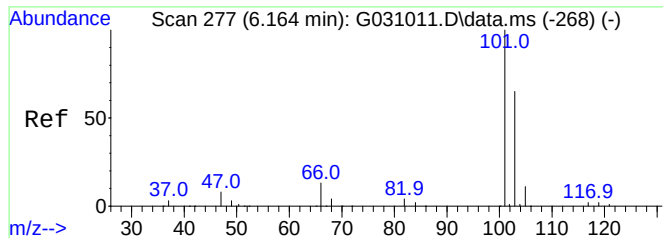
Tgt Ion: 56 Resp: 1300
Ion Ratio Lower Upper
56 100
55 82.2 56.1 84.1



#11
ACETONE
Concen: 6.68 PPBV
RT: 6.016 min Scan# 245
Delta R.T. 0.009 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

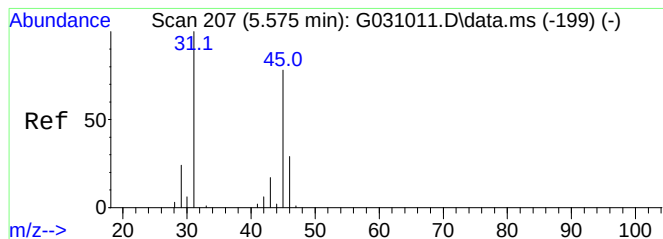
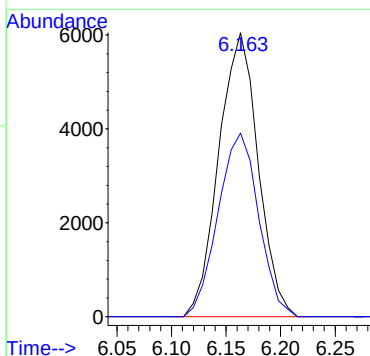
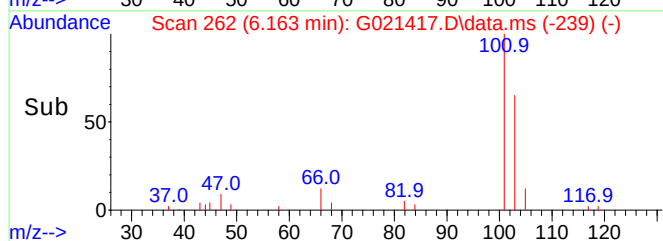
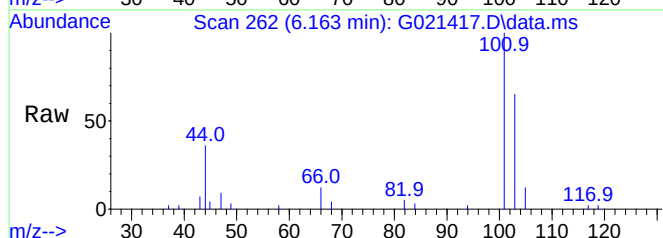
Tgt Ion: 43 Resp: 211366
Ion Ratio Lower Upper
43 100
58 28.8 13.9 53.9





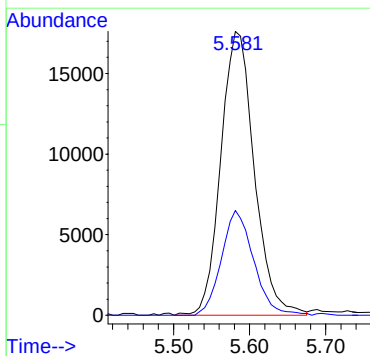
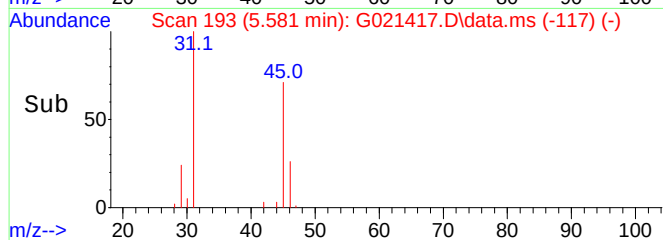
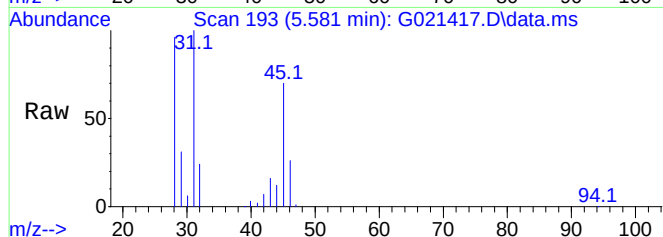
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.30 PPBV
 RT: 6.163 min Scan# 262
 Delta R.T. -0.000 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

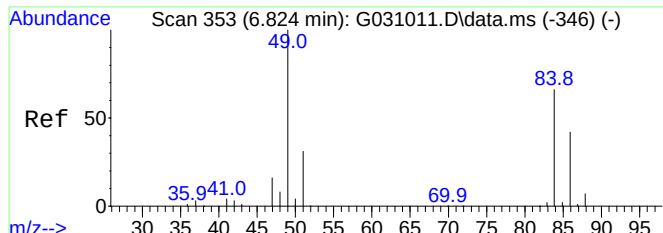
Tgt Ion: 101 Resp: 15170
 Ion Ratio Lower Upper
 101 100
 103 66.8 44.8 84.8



#13
 ETHANOL
 Concen: 8.07 PPBV
 RT: 5.581 min Scan# 193
 Delta R.T. 0.007 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

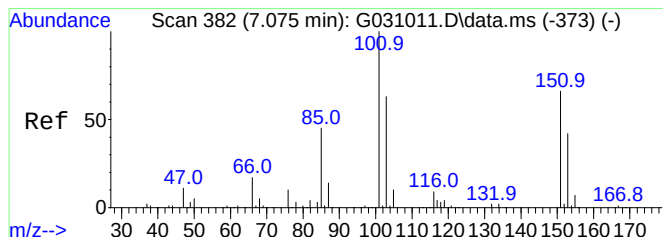
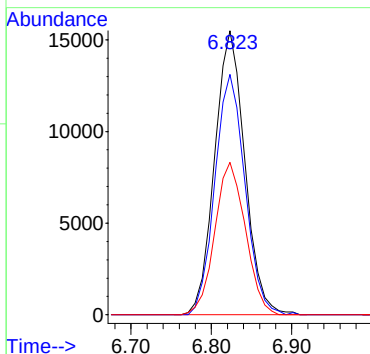
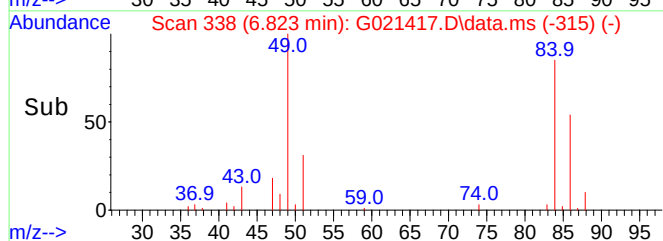
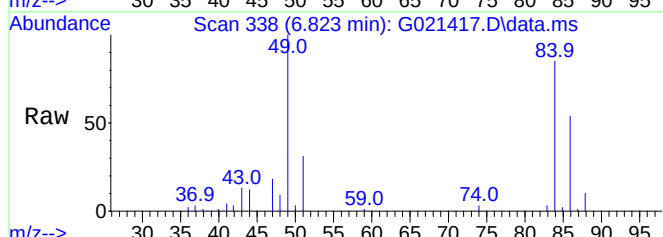
Tgt Ion: 45 Resp: 53743
 Ion Ratio Lower Upper
 45 100
 46 35.4 14.0 54.0





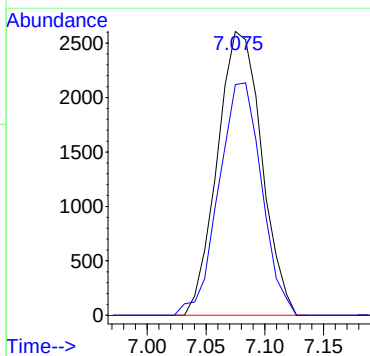
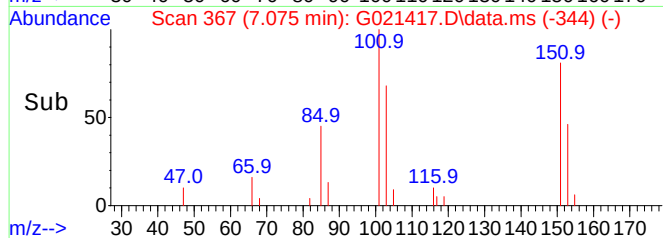
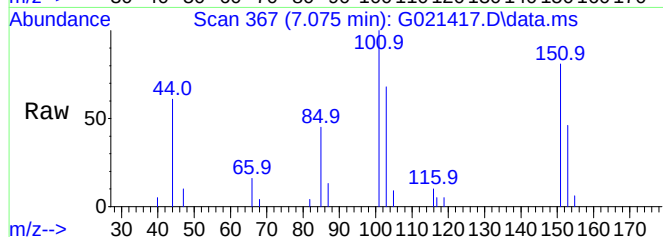
#15
METHYLENE CHLORIDE
Concen: 1.14 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

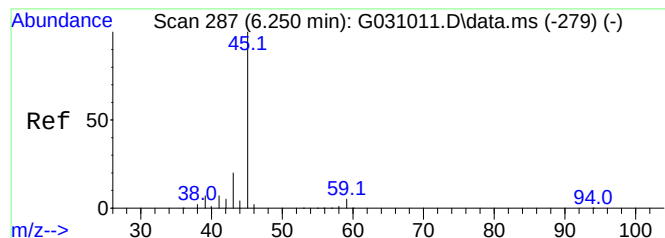
Tgt Ion: 49 Resp: 40430
Ion Ratio Lower Upper
49 100
84 84.5 45.2 85.2
86 54.4 21.4 61.4



#16
FREON 113
Concen: 0.12 PPBV
RT: 7.075 min Scan# 367
Delta R.T. -0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

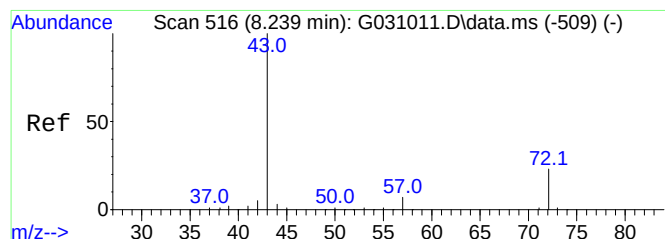
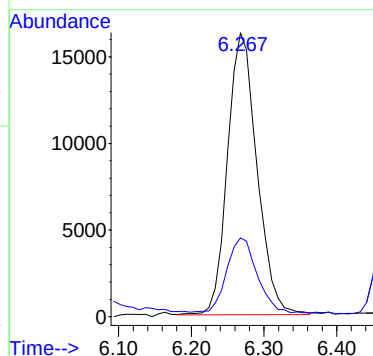
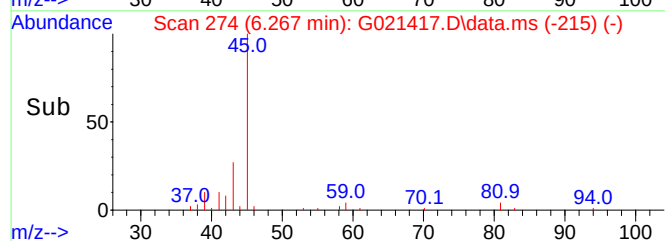
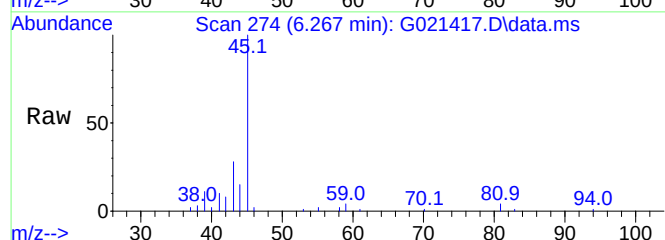
Tgt Ion: 101 Resp: 6831
Ion Ratio Lower Upper
101 100
151 79.1 46.3 86.3





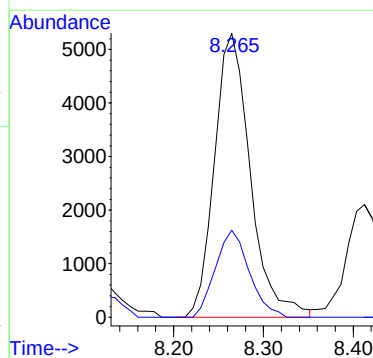
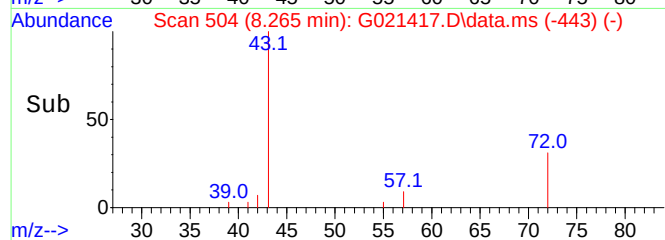
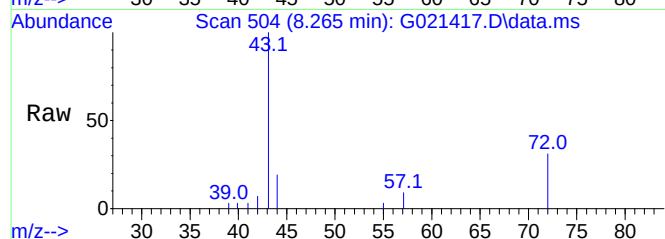
#21
IPA
Concen: 1.38 PPBV
RT: 6.267 min Scan# 274
Delta R.T. 0.017 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

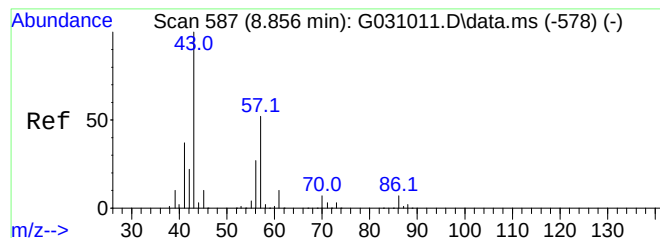
Tgt Ion: 45 Resp: 46039
Ion Ratio Lower Upper
45 100
43 28.0 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.23 PPBV
RT: 8.265 min Scan# 504
Delta R.T. 0.026 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

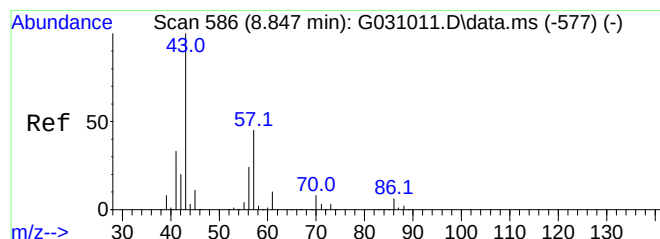
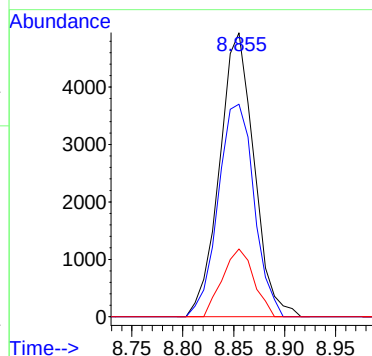
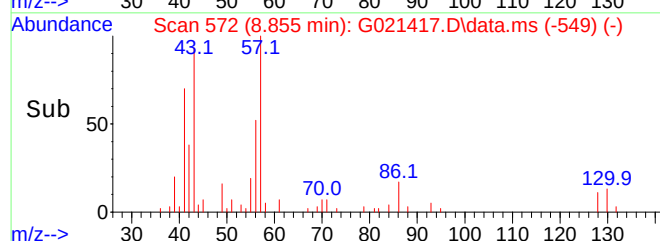
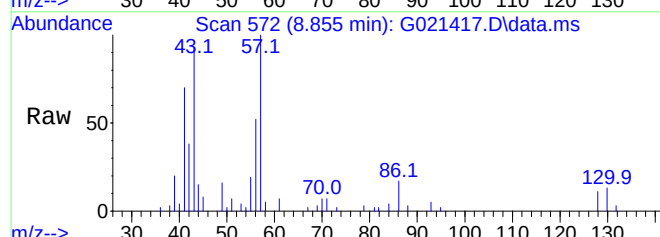
Tgt Ion: 43 Resp: 14718
Ion Ratio Lower Upper
43 100
72 28.8 2.6 42.6





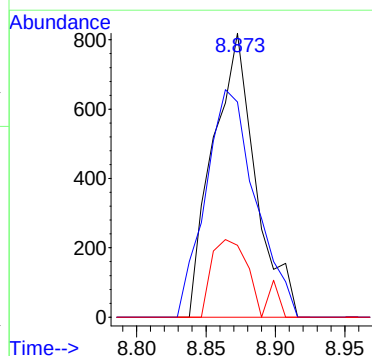
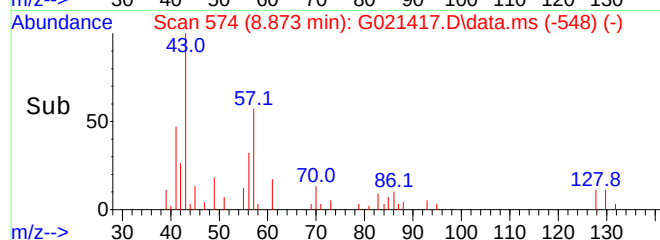
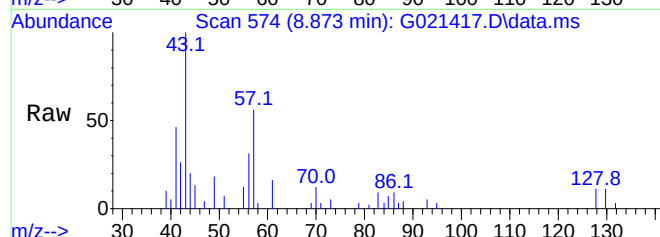
#25
 HEXANE
 Concen: 0.35 PPBV
 RT: 8.855 min Scan# 572
 Delta R.T. -0.000 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

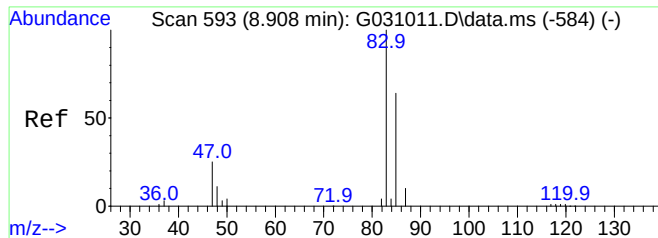
Tgt Ion: 41 Resp: 11701
 Ion Ratio Lower Upper
 41 100
 56 77.8 50.8 90.8
 86 21.7 9.6 29.6



#26
 ETHYL ACETATE
 Concen: 0.15 PPBV
 RT: 8.873 min Scan# 574
 Delta R.T. 0.026 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

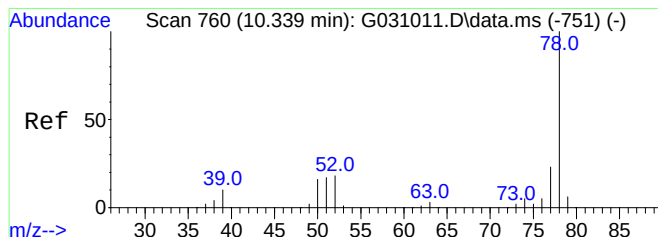
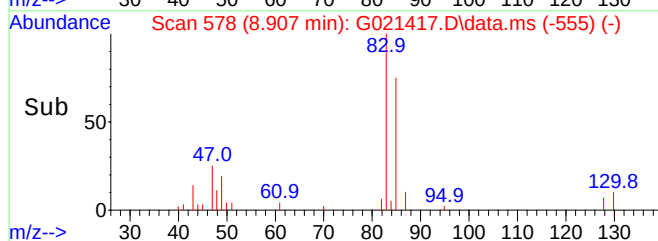
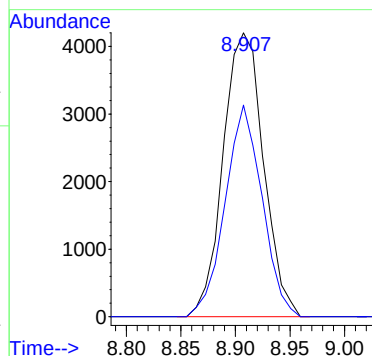
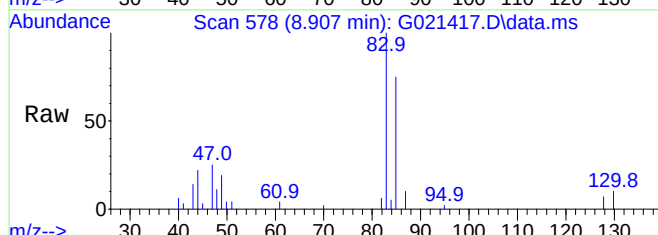
Tgt Ion: 61 Resp: 1751
 Ion Ratio Lower Upper
 61 100
 70 93.9 58.2 98.2
 88 25.9 3.0 43.0





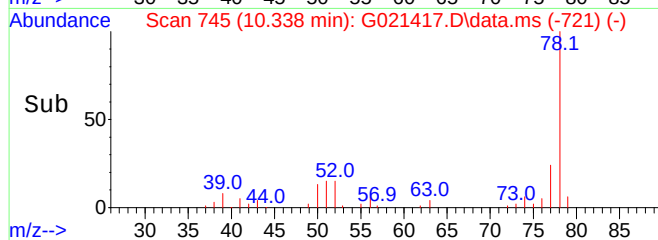
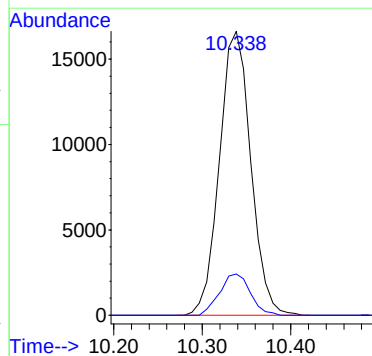
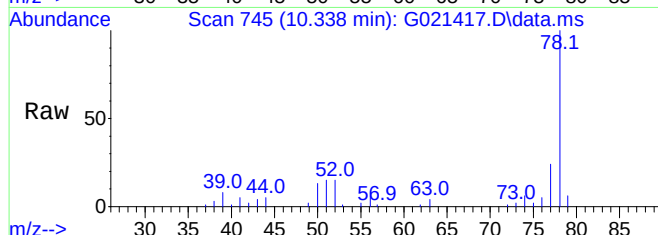
#27
CHLOROFORM
Concen: 0.17 PPBV
RT: 8.907 min Scan# 578
Delta R.T. -0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

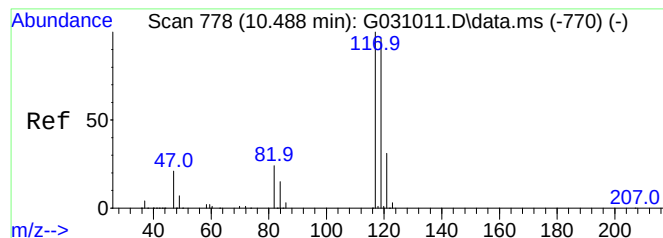
Tgt Ion: 83 Resp: 10858
Ion Ratio Lower Upper
83 100
85 68.2 44.9 84.9



#32
BENZENE
Concen: 0.30 PPBV
RT: 10.338 min Scan# 745
Delta R.T. -0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

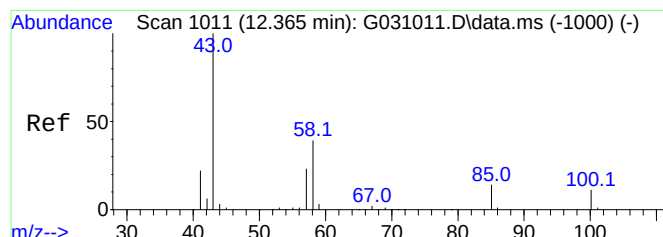
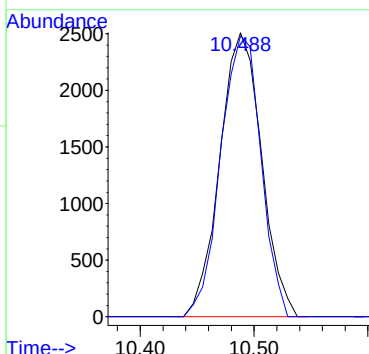
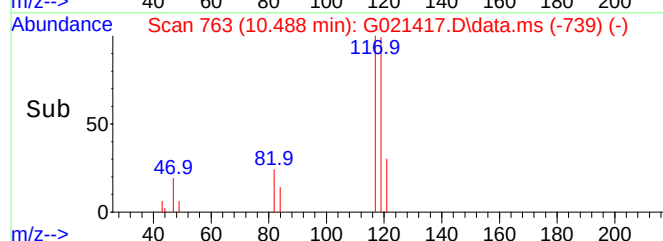
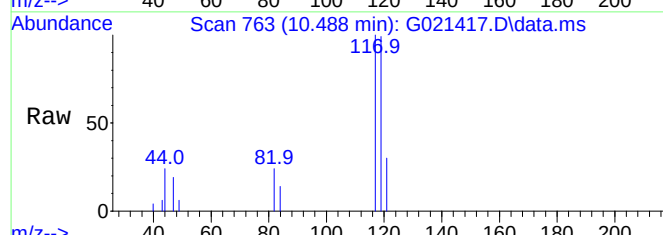
Tgt Ion: 78 Resp: 41027
Ion Ratio Lower Upper
78 100
51 14.2 0.0 37.6





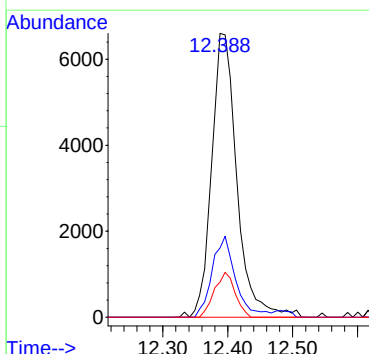
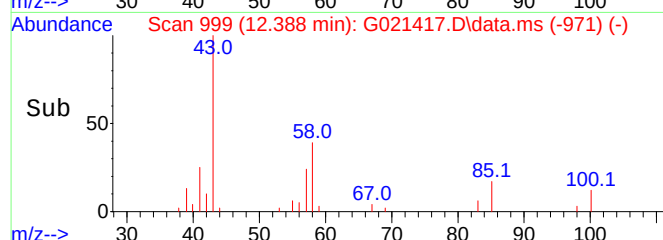
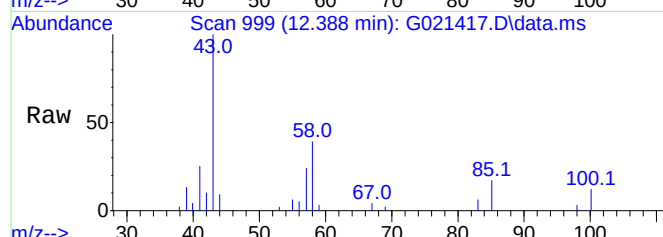
#33
 CARBON TETRACHLORIDE
 Concen: 0.10 PPBV
 RT: 10.488 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

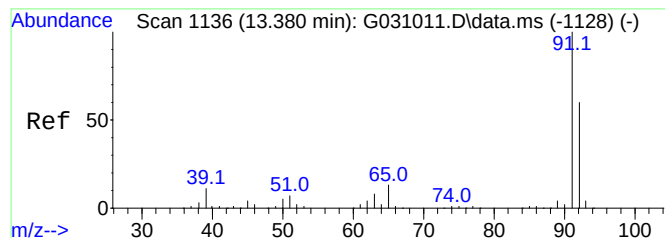
Tgt Ion: 117 Resp: 6402
 Ion Ratio Lower Upper
 117 100
 119 95.1 75.4 115.4



#41
 MIBK
 Concen: 0.18 PPBV
 RT: 12.388 min Scan# 999
 Delta R.T. 0.023 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

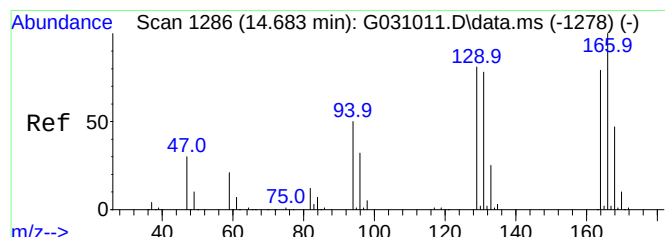
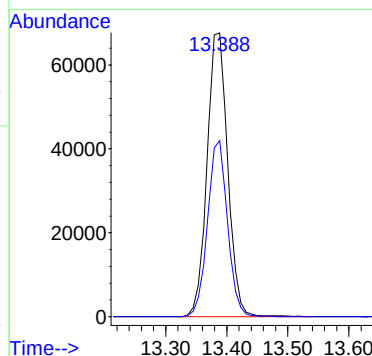
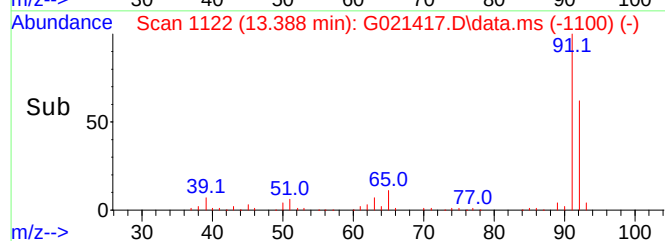
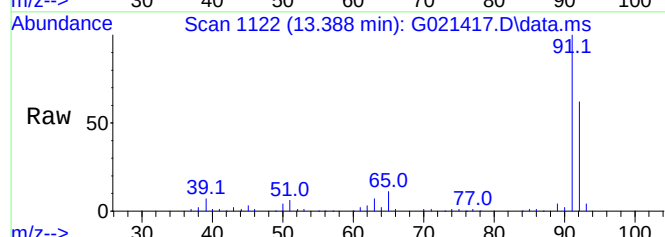
Tgt Ion: 43 Resp: 17838
 Ion Ratio Lower Upper
 43 100
 57 26.7 2.8 42.8
 100 13.0 1.0 21.0





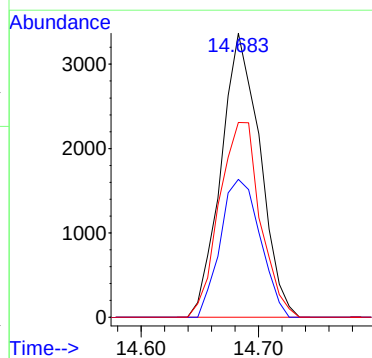
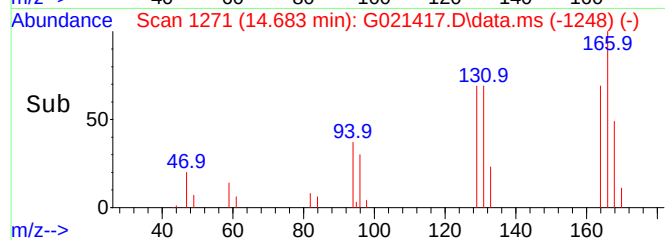
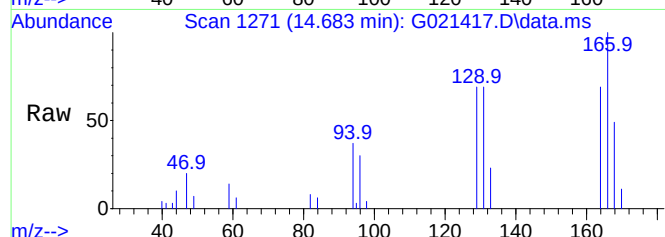
#46
TOLUENE
Concen: 1.08 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

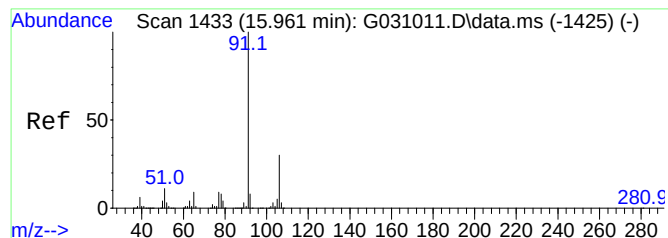
Tgt Ion: 91 Resp: 159051
Ion Ratio Lower Upper
91 100
92 59.9 39.7 79.7



#50
TETRACHLOROETHENE
Concen: 0.12 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

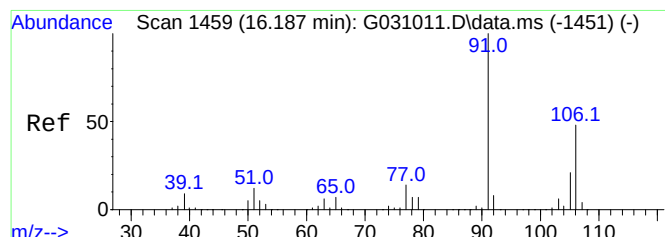
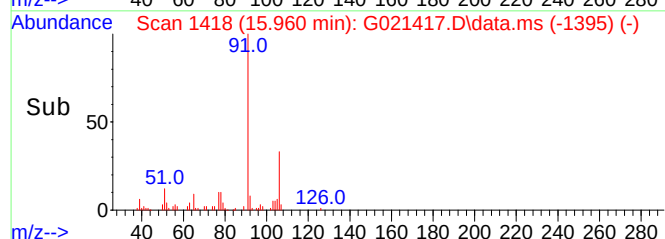
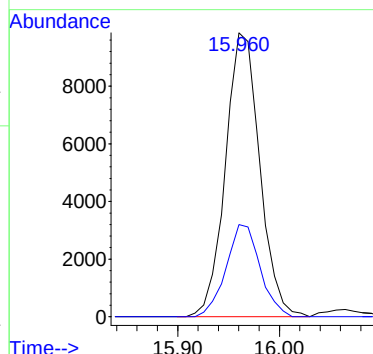
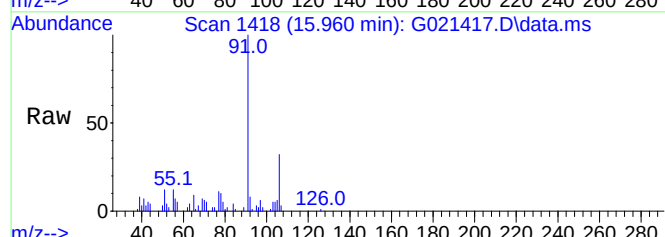
Tgt Ion: 166 Resp: 7733
Ion Ratio Lower Upper
166 100
168 49.9 27.0 67.0
129 72.3 60.6 100.6





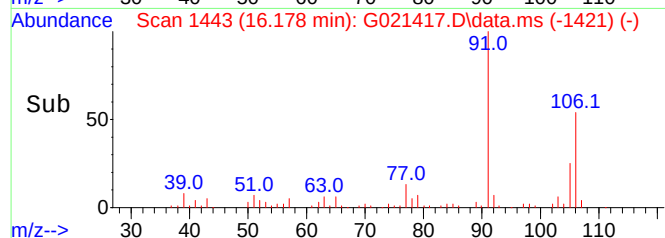
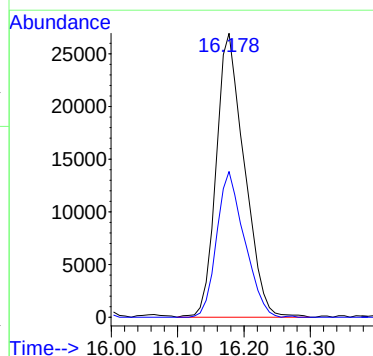
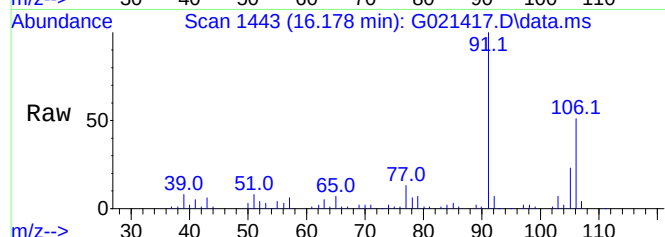
#52
ETHYLBENZENE
Concen: 0.12 PPBV
RT: 15.960 min Scan# 1418
Delta R.T. -0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

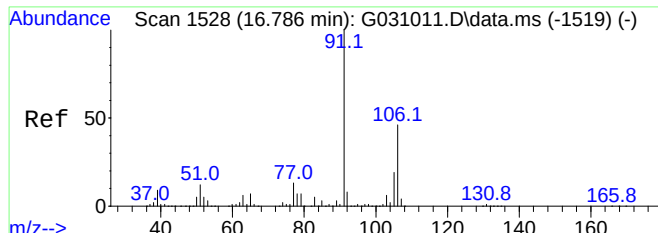
Tgt Ion: 91 Resp: 23085
Ion Ratio Lower Upper
91 100
106 32.2 10.0 50.0



#53
M/P-XYLENE
Concen: 0.54 PPBV
RT: 16.178 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

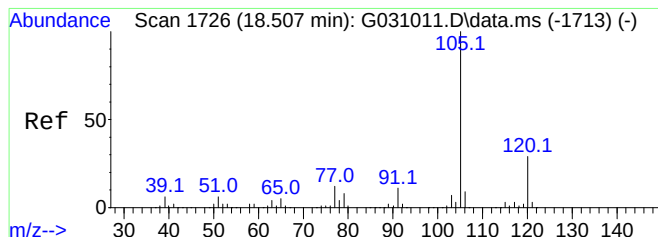
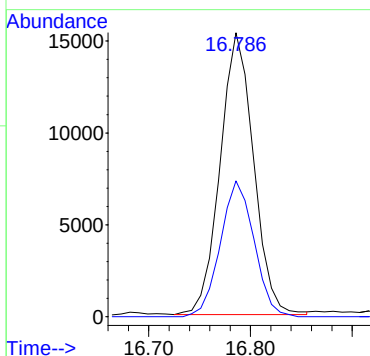
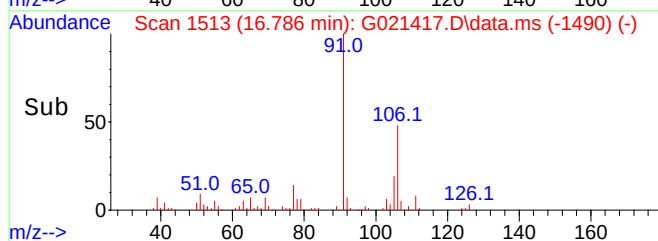
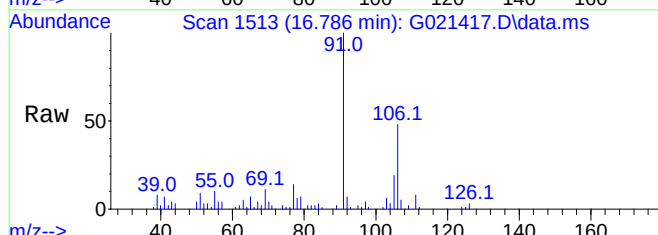
Tgt Ion: 91 Resp: 79549
Ion Ratio Lower Upper
91 100
106 50.4 28.3 68.3





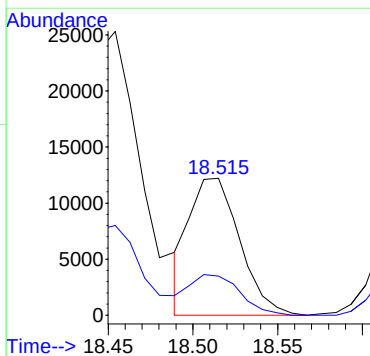
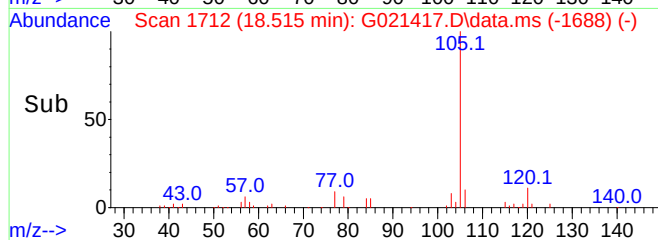
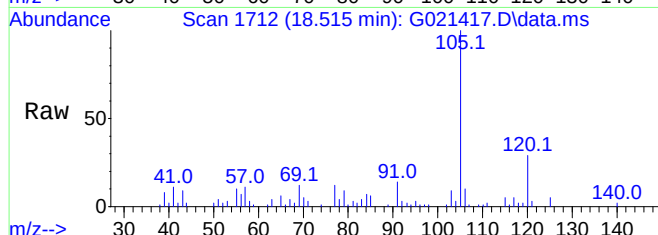
#56
O-XYLENE
Concen: 0.24 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

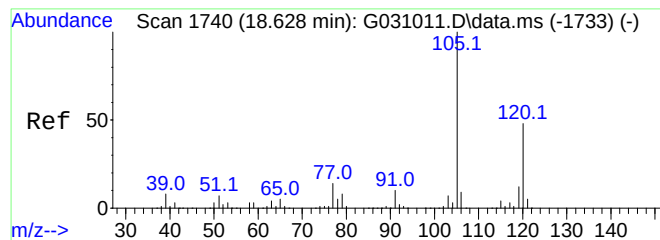
Tgt Ion: 91 Resp: 35051
Ion Ratio Lower Upper
91 100
106 48.6 25.5 65.5



#59
4-ETHYLTOLUENE
Concen: 0.13 PPBV
RT: 18.515 min Scan# 1712
Delta R.T. 0.008 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

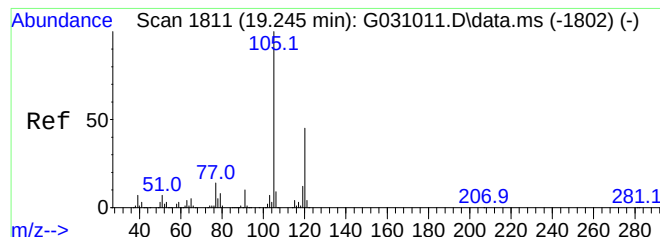
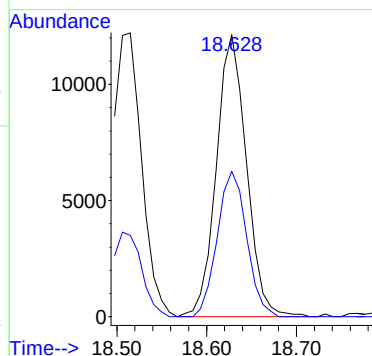
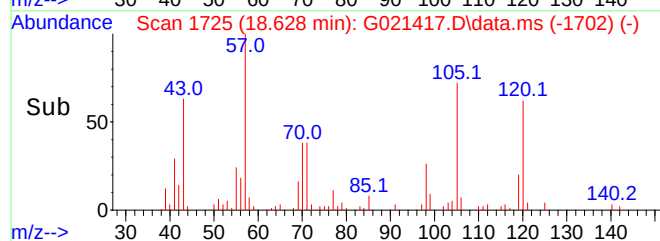
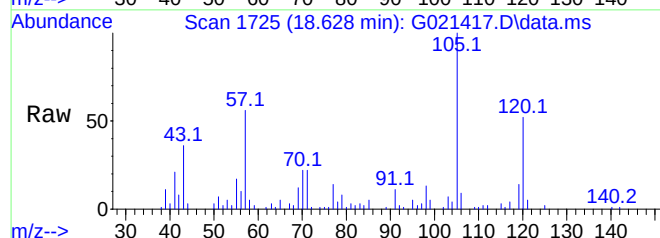
Tgt Ion: 105 Resp: 25367
Ion Ratio Lower Upper
105 100
120 30.0 8.6 48.6





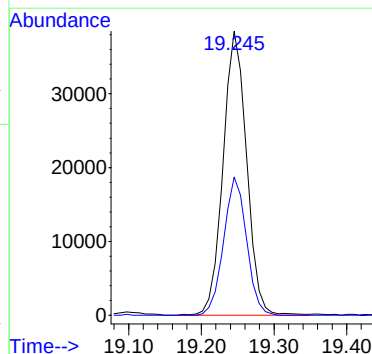
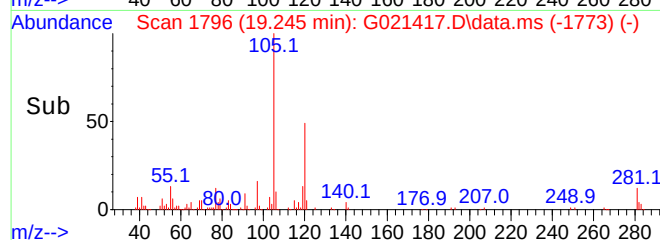
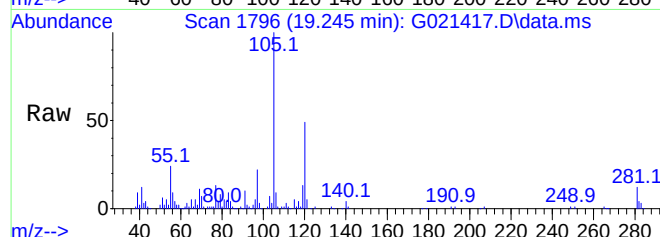
#60
 1,3,5-TRIMETHYLBENZENE
 Concen: 0.18 PPBV
 RT: 18.628 min Scan# 1725
 Delta R.T. -0.000 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

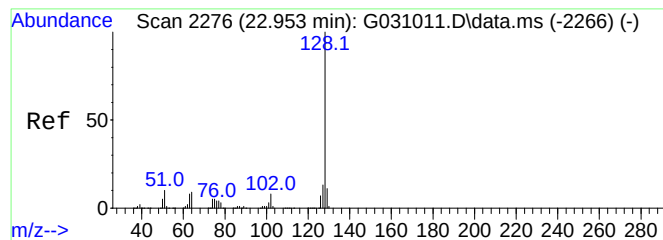
Tgt Ion:105 Resp: 28242
 Ion Ratio Lower Upper
 105 100
 120 50.2 28.3 68.3



#61
 1,2,4-TRIMETHYLBENZENE
 Concen: 0.54 PPBV
 RT: 19.245 min Scan# 1796
 Delta R.T. -0.000 min
 Lab File: G021417.D
 Acq: 14 Feb 2012 11:04 pm

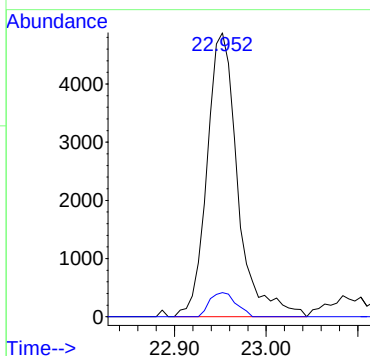
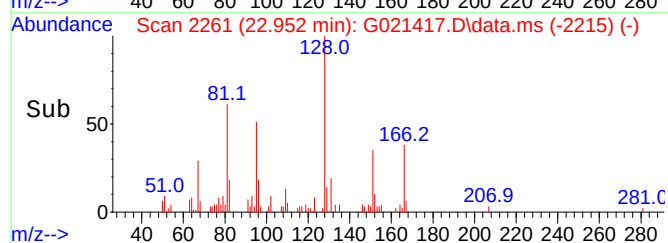
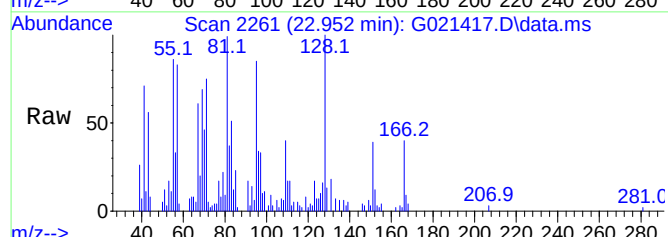
Tgt Ion:105 Resp: 86991
 Ion Ratio Lower Upper
 105 100
 120 47.2 24.8 64.8





#67
NAPHTHALENE
Concen: 0.05 PPBV
RT: 22.952 min Scan# 2261
Delta R.T. 0.000 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

Tgt Ion:128 Resp: 11405
Ion Ratio Lower Upper
128 100
102 7.3 0.0 28.6



Data File : C:\msdchem\1\data\G021412\G021417.D
 Acq On : 14 Feb 2012 11:04 pm
 Sample : 12B0323-13 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 15:12:11 2012

Vial: 9
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	1091120	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	182707	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	711413m	10.29	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	128.63%
Target Compounds						
4) TERT-BUTYL ALCOHOL	6.867	59	7341m	0.115	PPBV	Qvalue
6) METHYLCYCLOHEXANE	12.435	83	5809	0.090	PPBV	90
11) CUMENE	17.577	105	9034	0.061	PPBV	99
12) PROPYLBENZENE	18.298	120	5957	0.148	PPBV	97
15) P-CYMENE	19.836	119	10144	0.069	PPBV	89
16) INDANE	20.227	117	13744	0.121	PPBV	92
18) BUTYLBENZENE	20.627	91	14237	0.096	PPBV #	52
20) HEXYLCYCLOHEXANE	23.801	83	17578	0.139	PPBV #	81

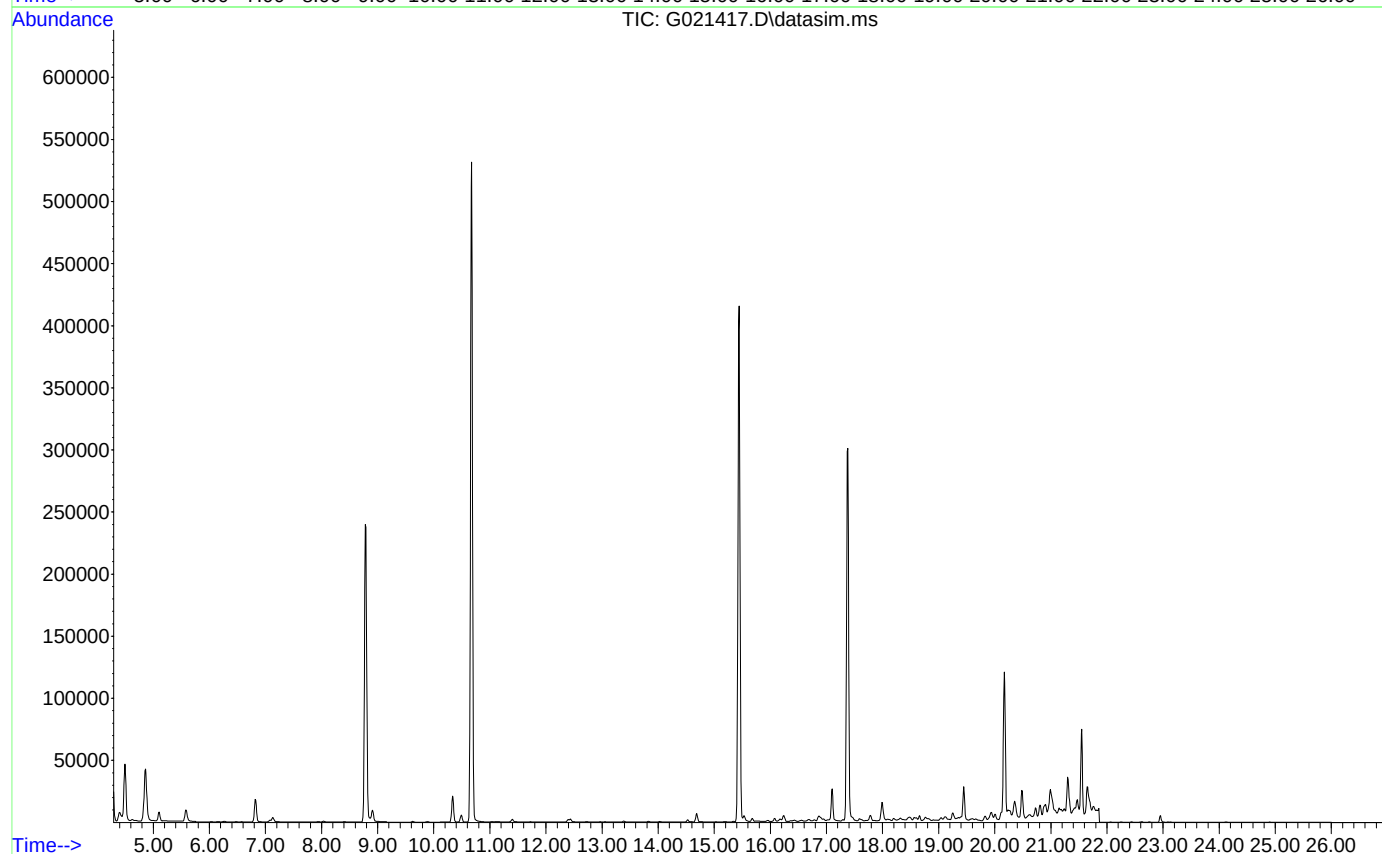
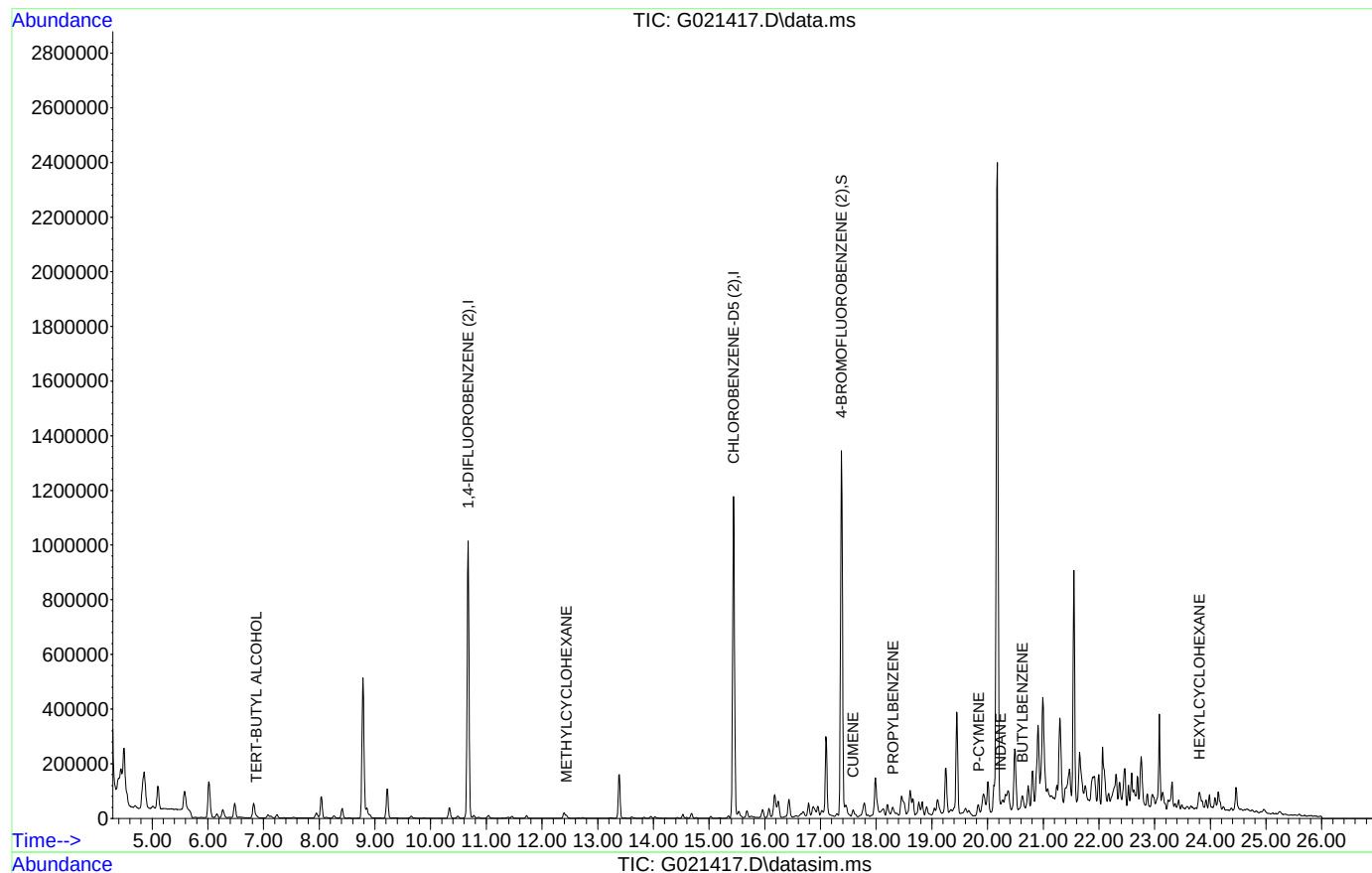
(#) = qualifier out of range (m) = manual integration (+) = signals summed

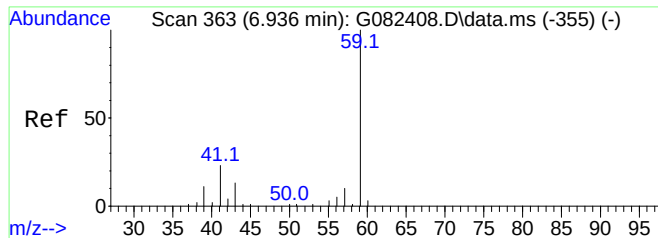
Data File : C:\msdchem\1\data\G021412\G021417.D
Acq On : 14 Feb 2012 11:04 pm
Sample : 12B0323-13 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 15:12:11 2012

Vial: 9
Operator: WSD
Inst : SYSG
Multiplr: 1.00

364

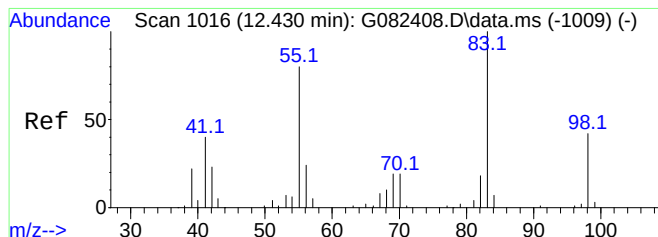
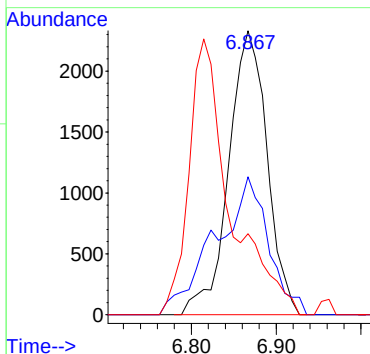
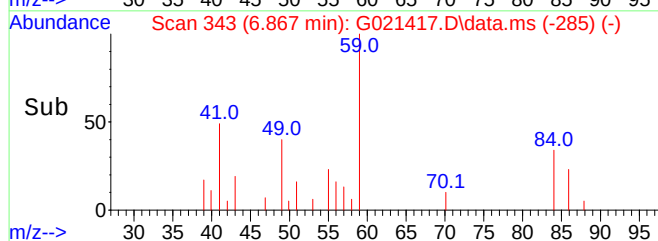
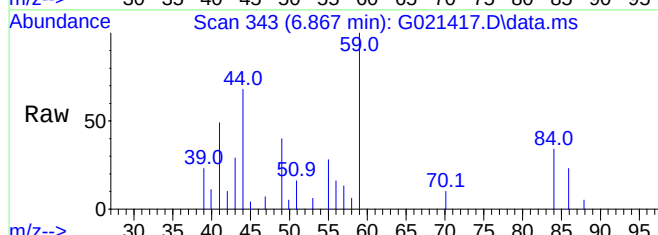
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





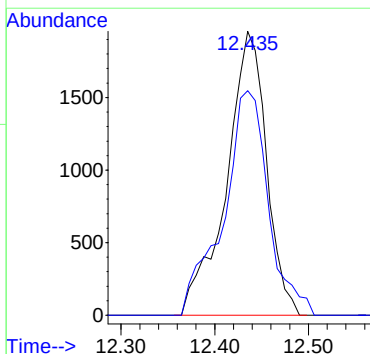
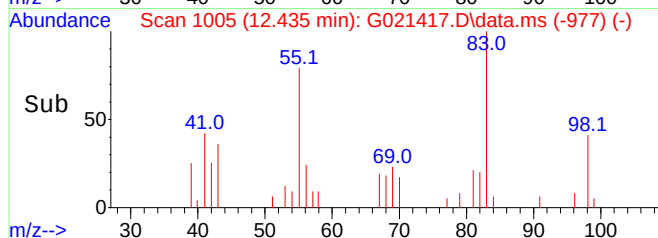
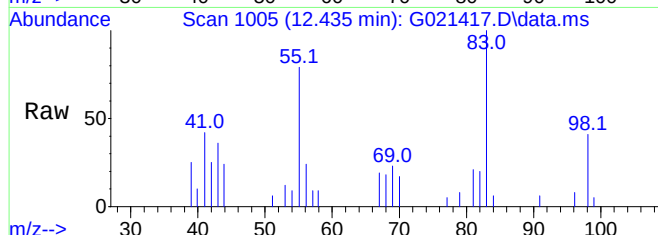
#4
TERT-BUTYL ALCOHOL
Concen: 0.12 PPBv m
RT: 6.867 min Scan# 343
Delta R.T. 0.007 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

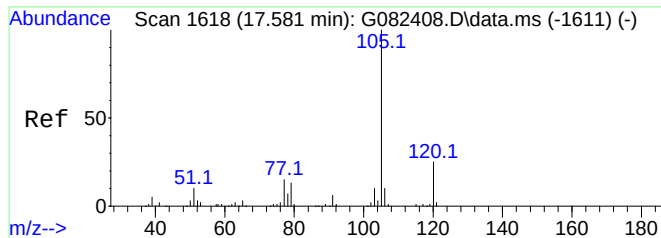
Tgt Ion: 59 Resp: 7341
Ion Ratio Lower Upper
59 100
41 39.9 7.9 47.9
43 22.5 0.0 32.8



#6
METHYLCYCLOHEXANE
Concen: 0.09 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.021 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

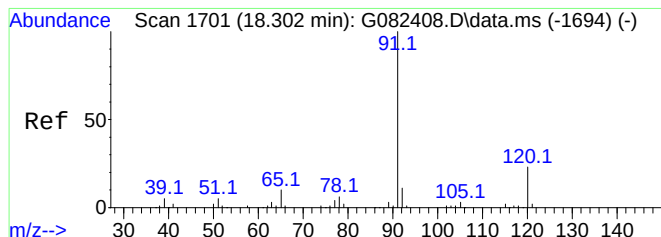
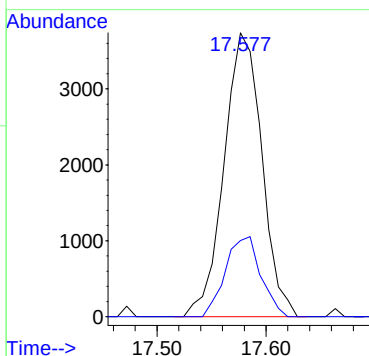
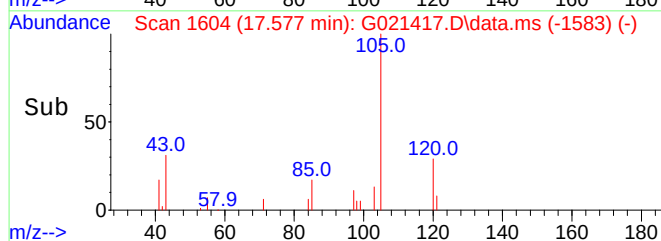
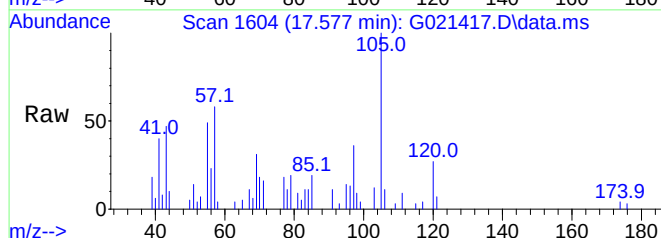
Tgt Ion: 83 Resp: 5809
Ion Ratio Lower Upper
83 100
55 89.2 60.5 100.5





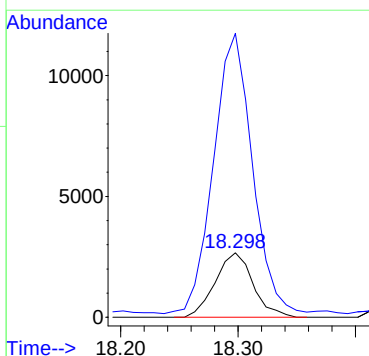
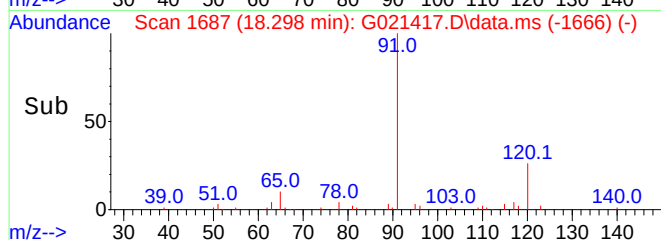
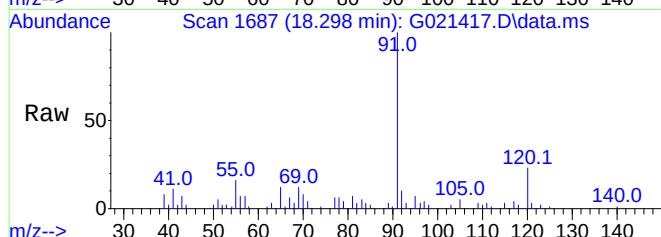
#11
CUMENE
Concen: 0.06 PPBV
RT: 17.577 min Scan# 1604
Delta R.T. -0.022 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

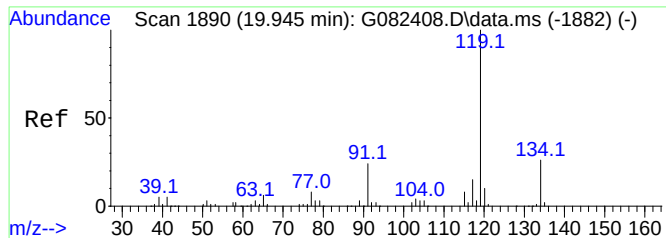
Tgt Ion:105 Resp: 9034
Ion Ratio Lower Upper
105 100
120 26.4 6.0 46.0



#12
PROPYLBENZENE
Concen: 0.15 PPBV
RT: 18.298 min Scan# 1687
Delta R.T. -0.022 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

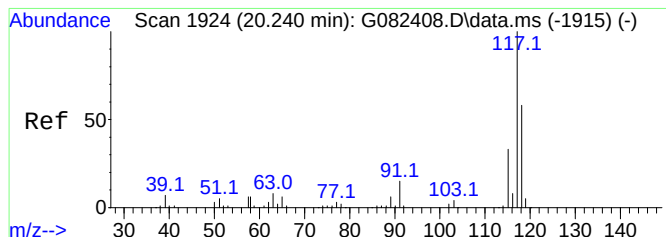
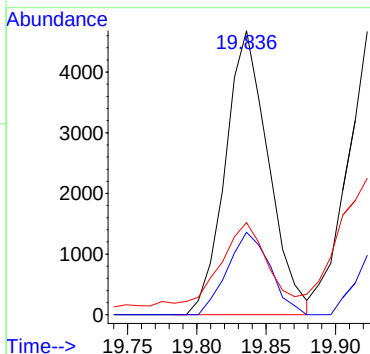
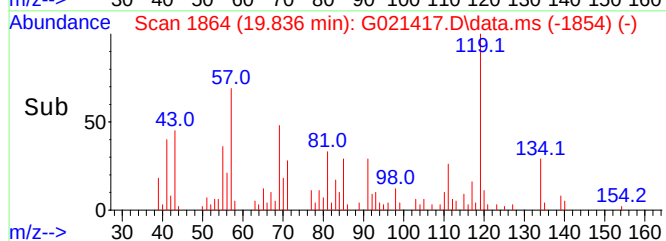
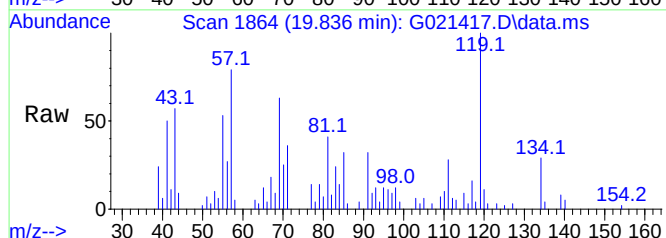
Tgt Ion:120 Resp: 5957
Ion Ratio Lower Upper
120 100
91 447.0 434.5 474.5





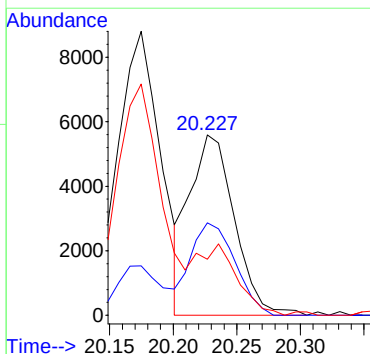
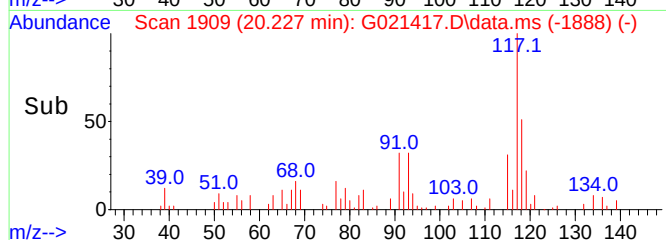
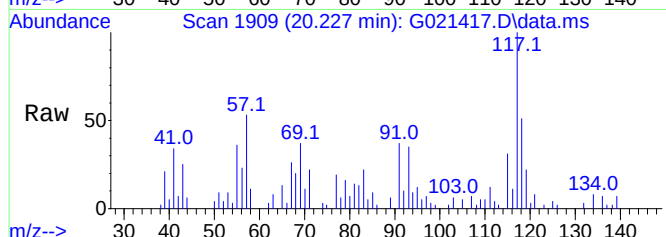
#15
P-CYMENE
Concen: 0.07 PPBV
RT: 19.836 min Scan# 1864
Delta R.T. -0.117 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

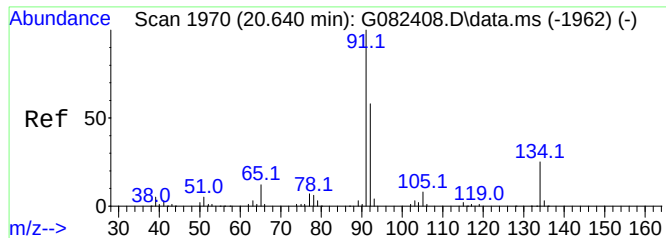
Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.7	5.8	45.8
91	31.5	2.8	42.8



#16
INDANE
Concen: 0.12 PPBV
RT: 20.227 min Scan# 1909
Delta R.T. -0.022 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

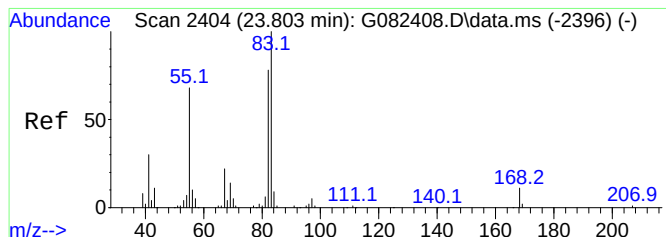
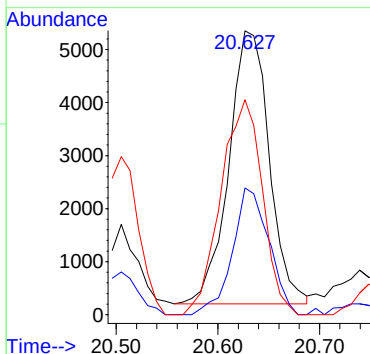
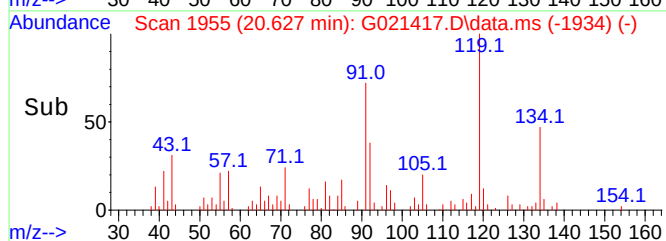
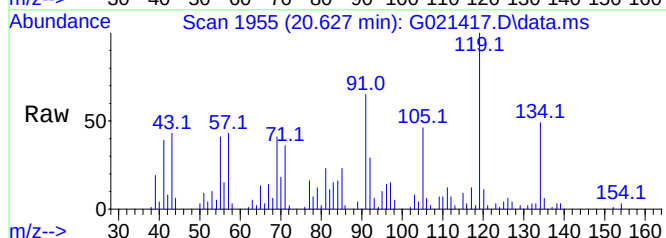
Tgt Ion	Ratio	Lower	Upper
117	100		
118	50.5	36.4	76.4
115	35.6	11.9	51.9





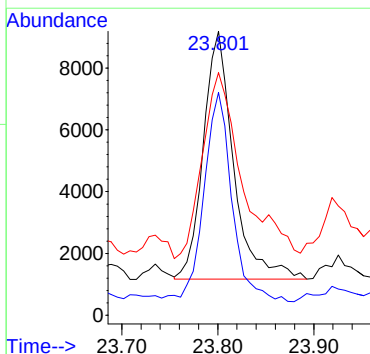
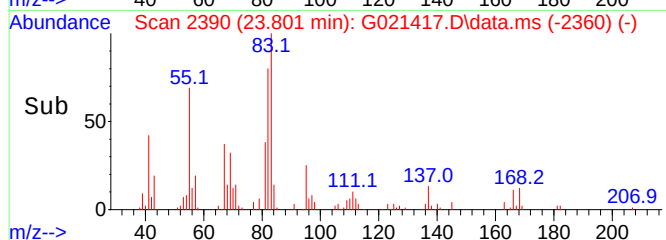
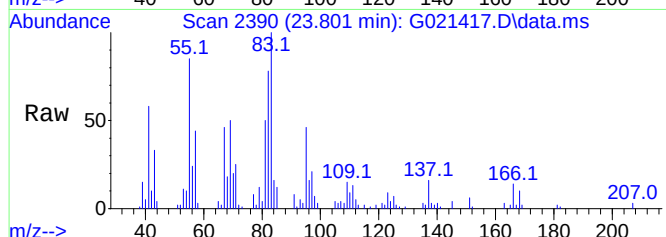
#18
BUTYLBENZENE
Concen: 0.10 PPBV
RT: 20.627 min Scan# 1955
Delta R.T. -0.022 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

Tgt Ion: 91 Resp: 14237
Ion Ratio Lower Upper
91 100
92 41.8 35.2 75.2
134 80.8 3.9 43.9#



#20
HEXYLCYCLOHEXANE
Concen: 0.14 PPBV
RT: 23.801 min Scan# 2390
Delta R.T. -0.002 min
Lab File: G021417.D
Acq: 14 Feb 2012 11:04 pm

Tgt Ion: 83 Resp: 17578
Ion Ratio Lower Upper
83 100
82 78.2 57.8 97.8
55 98.6 46.4 86.4#



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-07

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-14 File ID: G021219.D
 Sampled: 02/08/12 17:17 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 13:34
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform		0.036	0.10	
74-87-3	Chloromethane		0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	5.0	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-07

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-14 File ID: G021219.D
 Sampled: 02/08/12 17:17 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 13:34
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol	8.4	0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride	7.3	0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	0.31	0.030	0.10	
108-88-3	Toluene		0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane		0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	0.24	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene	0.49	0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-07

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-14	File ID:	G021219.D		
Sampled:	02/08/12 17:17	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 13:34		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021219.D
 Acq On : 13 Feb 2012 1:34 pm
 Sample : 12B0323-14 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 14:28:10 2012

Vial: 12
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

372

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	301826	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	940105	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	834028	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.376	174	464390	8.18	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.25%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.549	85	148890	2.517	PPBV	Qvalue 100
10) ACROLEIN	5.885	56	818	0.116	PPBV	# 70
11) ACETONE	6.007	43	931371	31.730	PPBV	93
12) TRICHLOROFLUOROMETHANE	6.163	101	5771	0.122	PPBV	96
13) ETHANOL	5.588	45	26099	4.225	PPBV	98
15) METHYLENE CHLORIDE	6.823	49	120002	3.649	PPBV	79
17) CARBON DISULFIDE	7.118	76	10135	0.121	PPBV	96
21) IPA	6.258	45	47457	1.537	PPBV	70
22) 2-BUTANONE(MEK)	8.265	43	14280	0.240	PPBV	96
25) HEXANE	8.855	41	16376	0.530	PPBV	92
50) TETRACHLOROETHENE	14.683	166	8316	0.154	PPBV	96
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	33018	0.243	PPBV	97
67) NAPHTHALENE	22.945	128	35960	0.201	PPBV	98

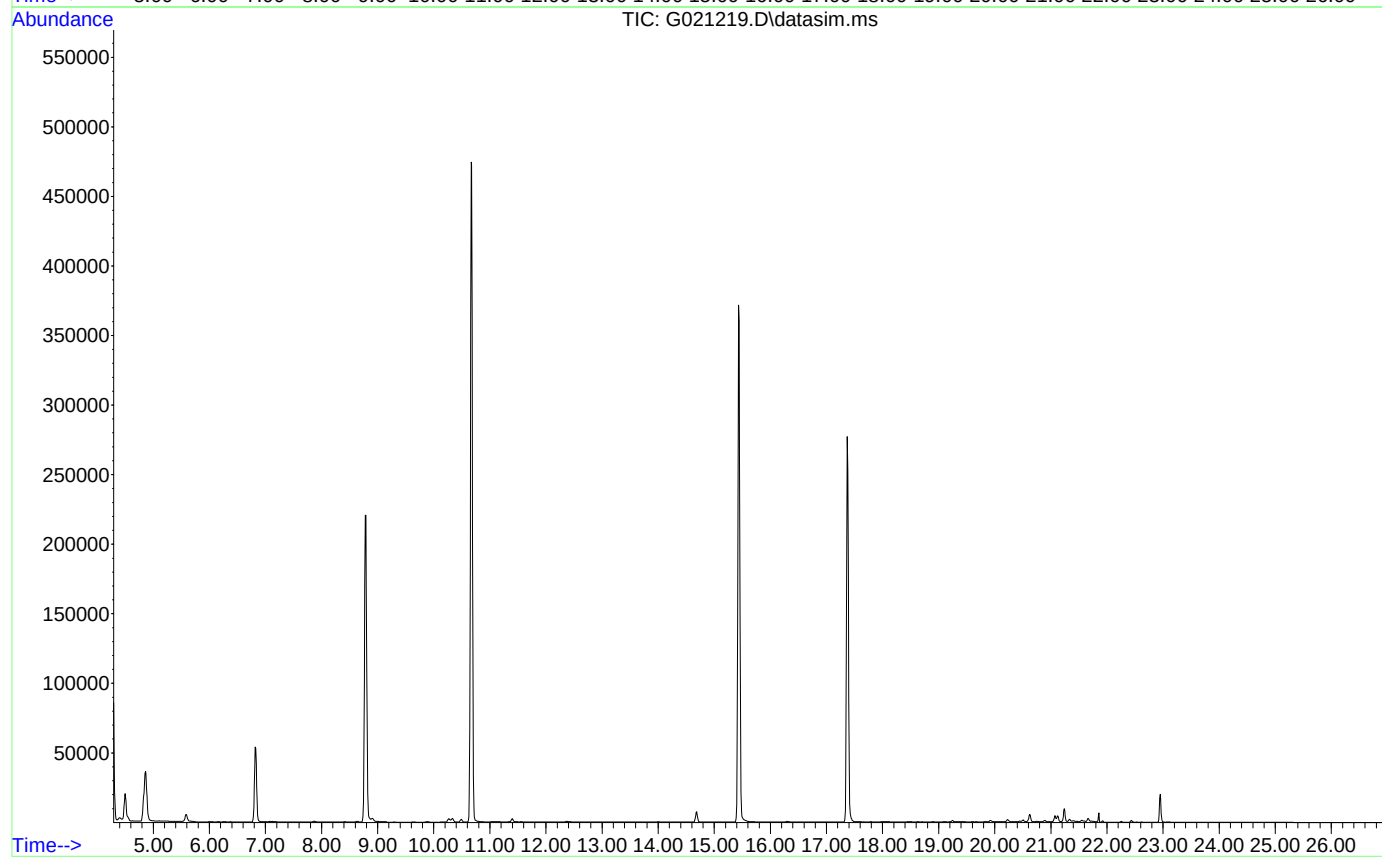
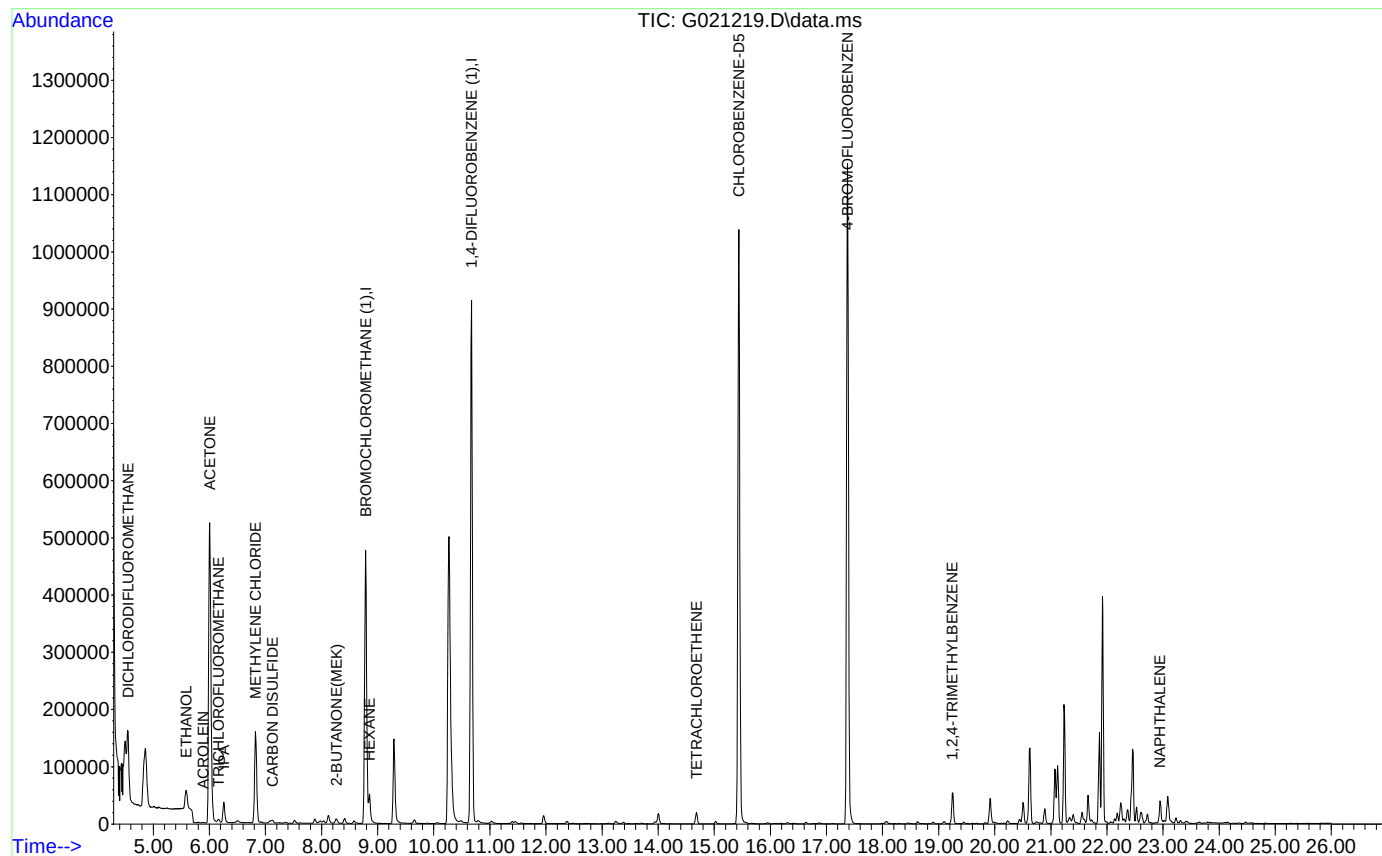
(#) = qualifier out of range (m) = manual integration (+) = signals summed

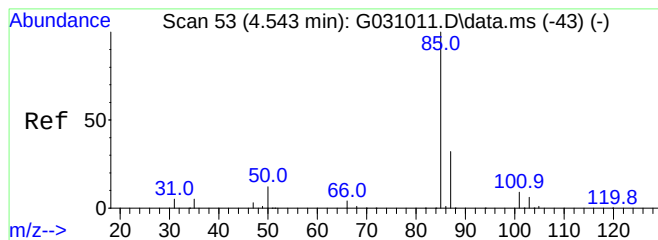
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Sample : 12B0323-14 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 14:28:10 2012

Vial: 12
Operator: TPH
Inst : SYSG
Multiplr: 1.00

373

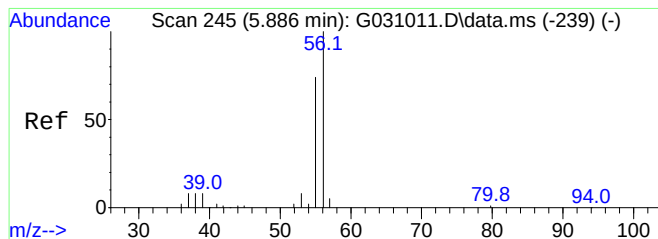
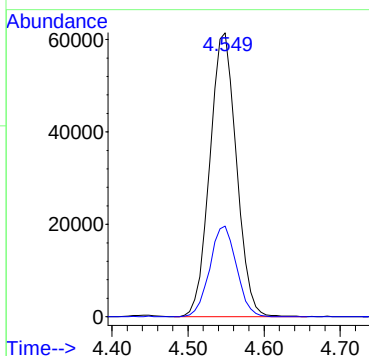
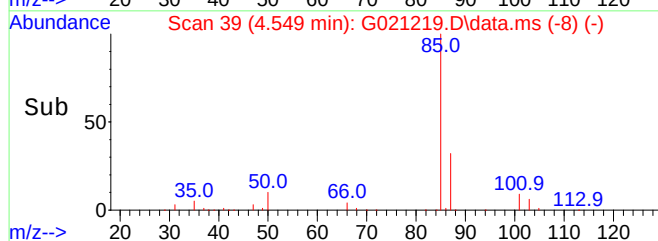
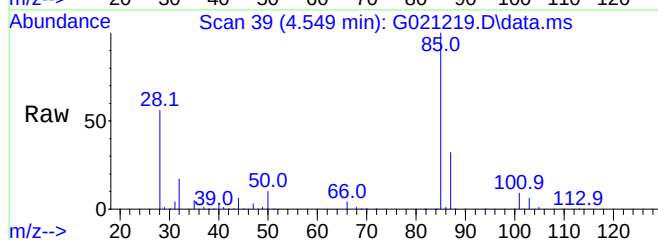
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Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





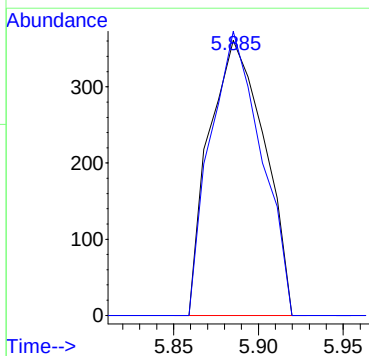
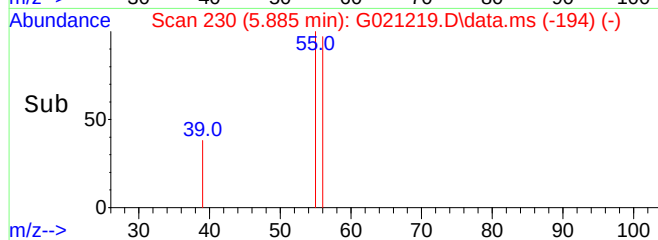
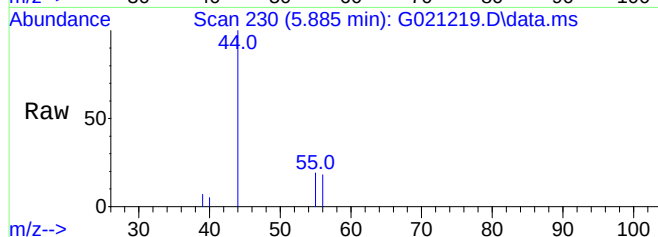
#3
DICHLORODIFLUOROMETHANE
Concen: 2.52 PPBV
RT: 4.549 min Scan# 39
Delta R.T. 0.006 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

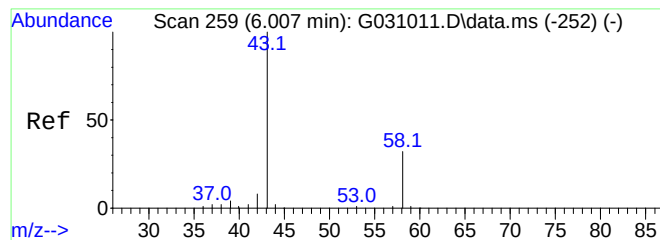
Tgt Ion: 85 Resp: 148890
Ion Ratio Lower Upper
85 100
87 32.1 12.1 52.1



#10
ACROLEIN
Concen: 0.12 PPBV
RT: 5.885 min Scan# 230
Delta R.T. 0.000 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

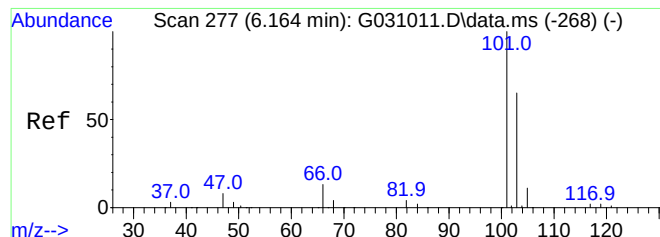
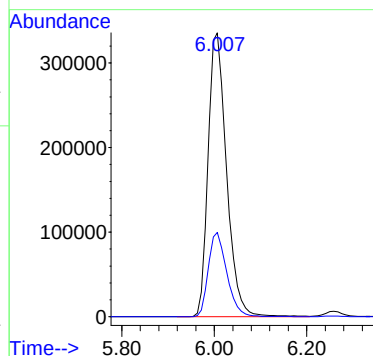
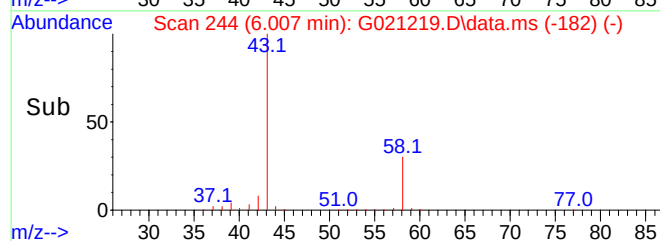
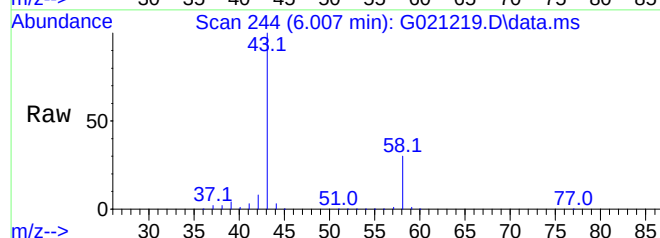
Tgt Ion: 56 Resp: 818
Ion Ratio Lower Upper
56 100
55 95.1 56.1 84.1#





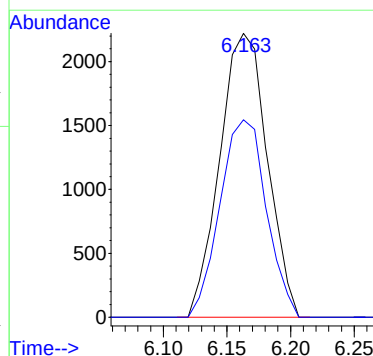
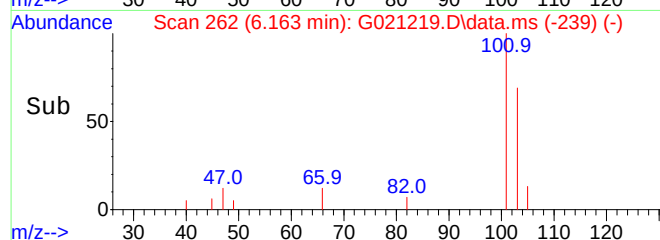
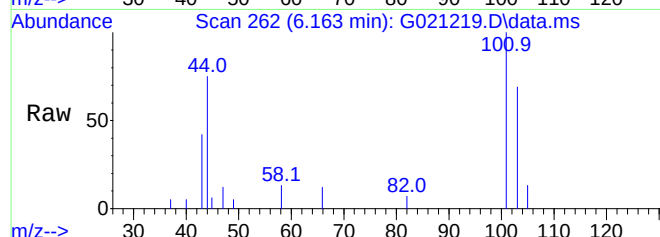
#11
ACETONE
Concen: 31.73 PPBV
RT: 6.007 min Scan# 244
Delta R.T. -0.000 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

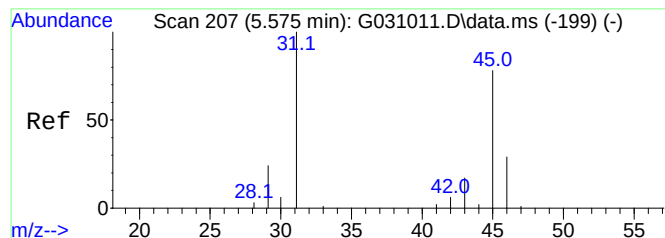
Tgt Ion: 43 Resp: 931371
Ion Ratio Lower Upper
43 100
58 29.8 13.9 53.9



#12
TRICHLOROFLUOROMETHANE
Concen: 0.12 PPBV
RT: 6.163 min Scan# 262
Delta R.T. -0.001 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

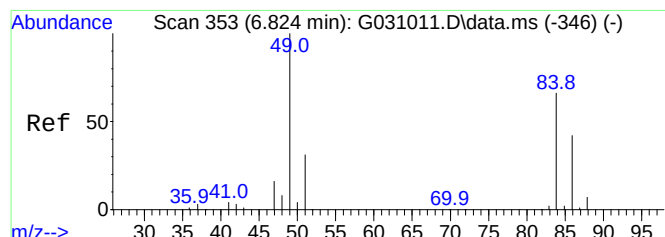
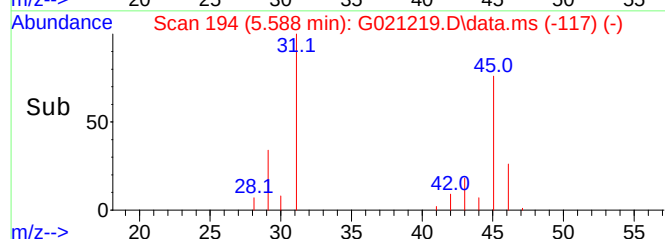
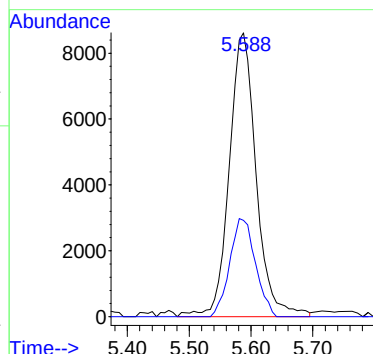
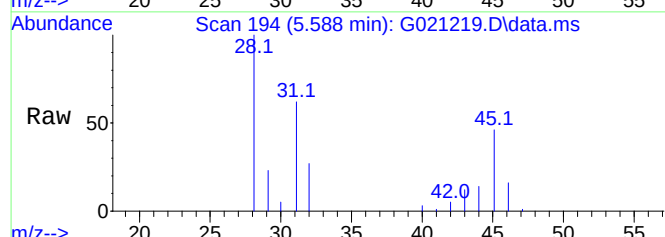
Tgt Ion: 101 Resp: 5771
Ion Ratio Lower Upper
101 100
103 67.8 44.8 84.8





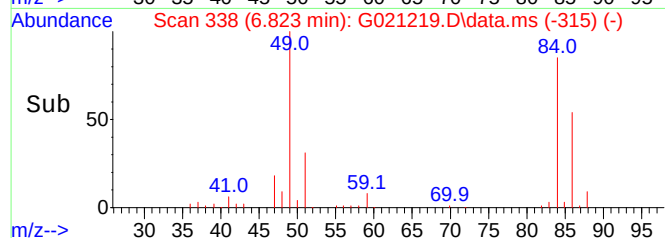
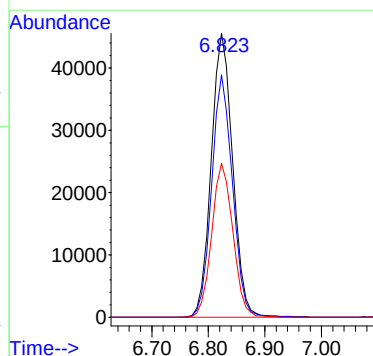
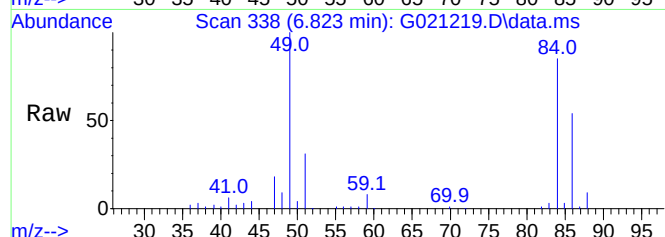
#13
ETHANOL
Concen: 4.23 PPBV
RT: 5.588 min Scan# 194
Delta R.T. 0.014 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

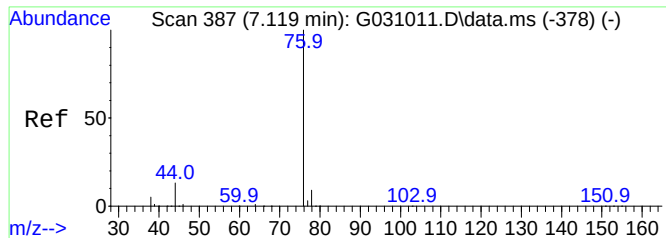
Tgt Ion: 45 Resp: 26099
Ion Ratio Lower Upper
45 100
46 32.8 14.0 54.0



#15
METHYLENE CHLORIDE
Concen: 3.65 PPBV
RT: 6.823 min Scan# 338
Delta R.T. -0.000 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

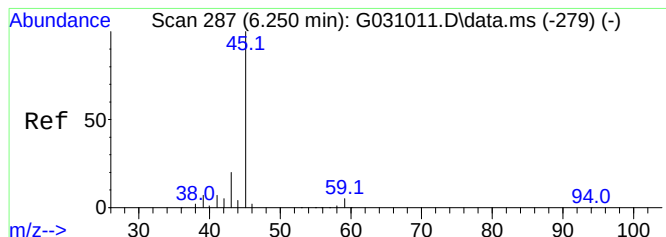
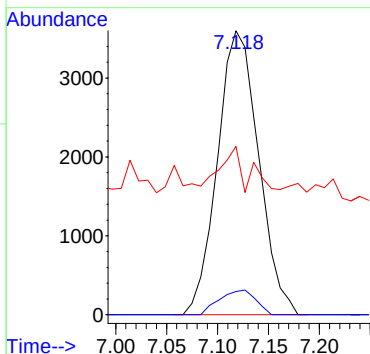
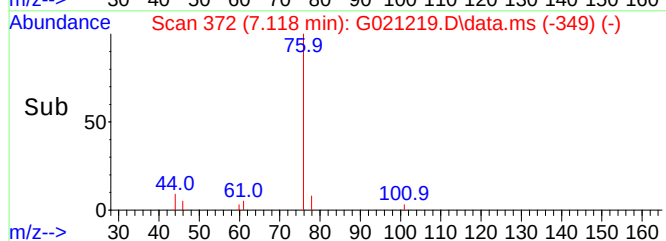
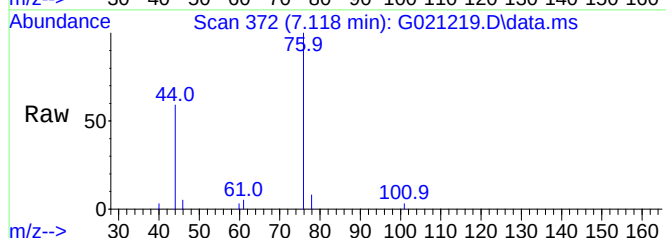
Tgt Ion: 49 Resp: 120002
Ion Ratio Lower Upper
49 100
84 83.1 45.2 85.2
86 53.4 21.4 61.4





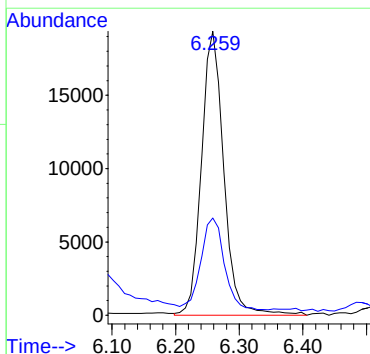
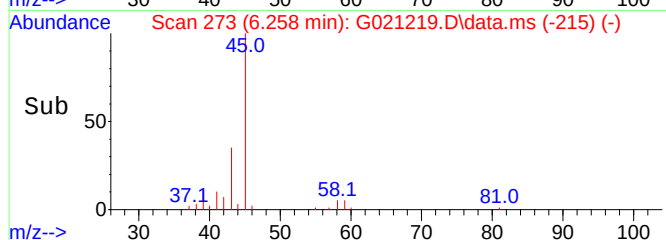
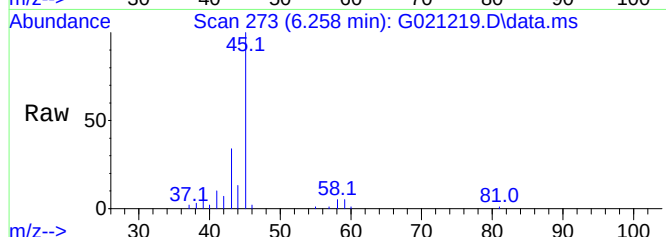
#17
CARBON DISULFIDE
Concen: 0.12 PPBV
RT: 7.118 min Scan# 372
Delta R.T. -0.001 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

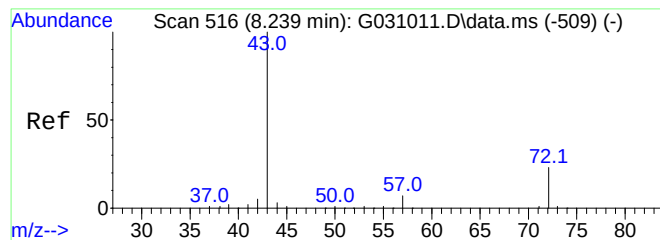
Tgt Ion: 76 Resp: 10135
Ion Ratio Lower Upper
76 100
78 7.6 0.0 30.7
44 13.7 0.0 33.4



#21
IPA
Concen: 1.54 PPBV
RT: 6.258 min Scan# 273
Delta R.T. 0.008 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

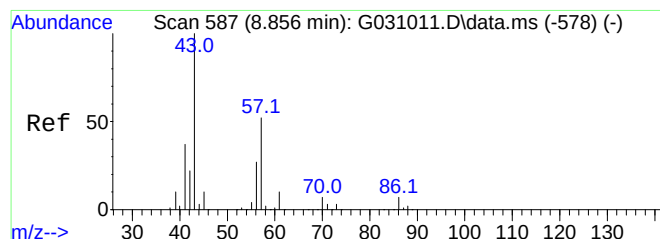
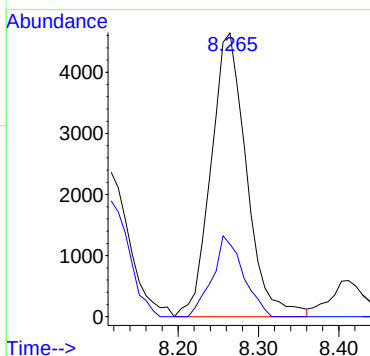
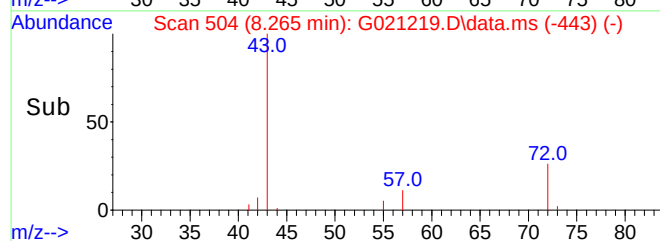
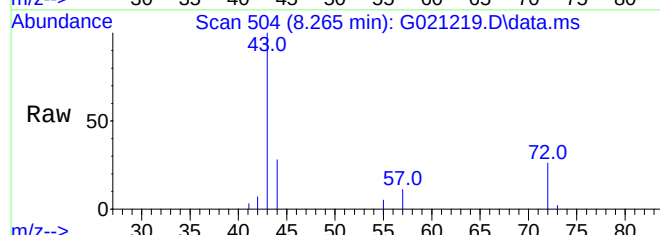
Tgt Ion: 45 Resp: 47457
Ion Ratio Lower Upper
45 100
43 34.6 0.6 40.6





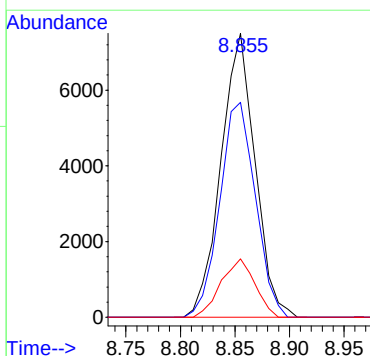
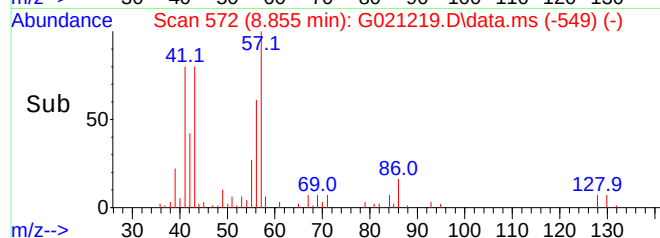
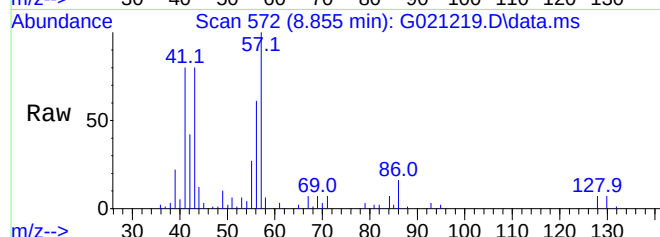
#22
2-BUTANONE (MEK)
Concen: 0.24 PPBV
RT: 8.265 min Scan# 504
Delta R.T. 0.026 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

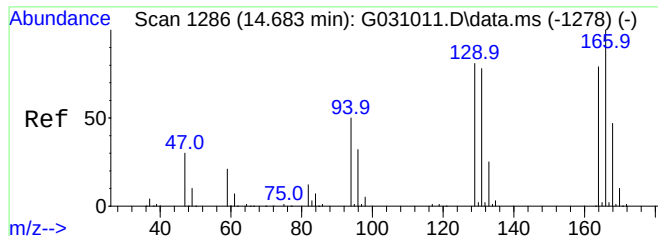
Tgt Ion: 43 Resp: 14280
Ion Ratio Lower Upper
43 100
72 24.8 2.6 42.6



#25
HEXANE
Concen: 0.53 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.001 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

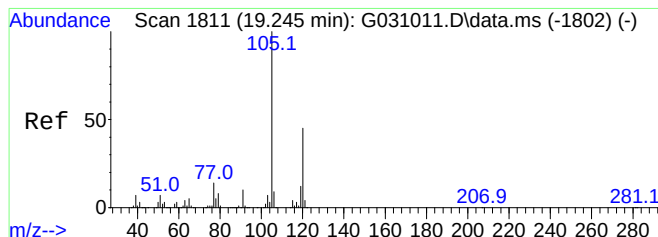
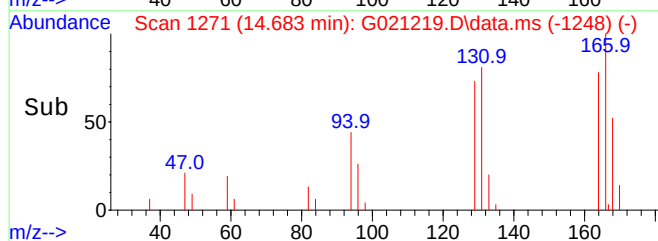
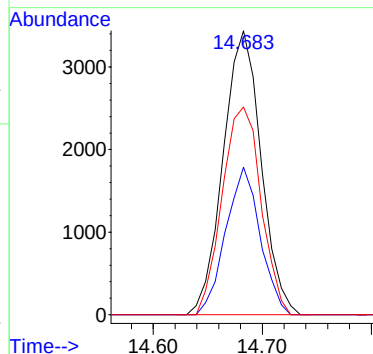
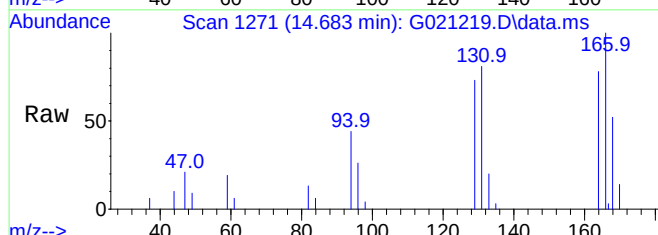
Tgt Ion: 41 Resp: 16376
Ion Ratio Lower Upper
41 100
56 79.0 50.8 90.8
86 20.4 9.6 29.6





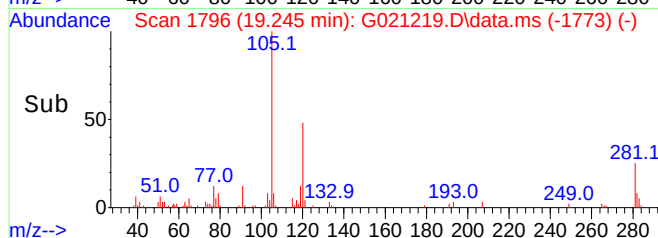
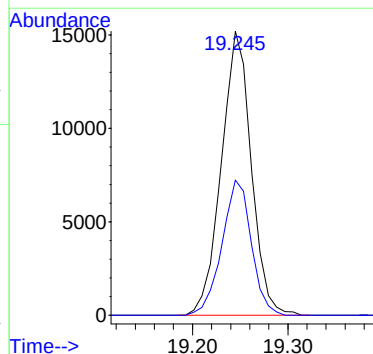
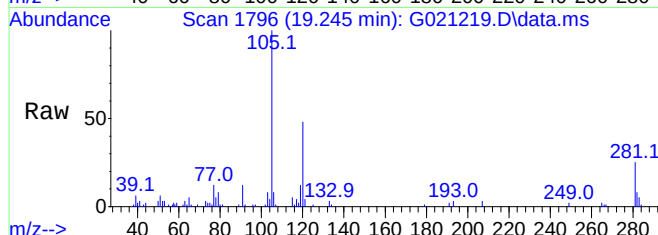
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TETRACHLOROETHENE
Concen: 0.15 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.001 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

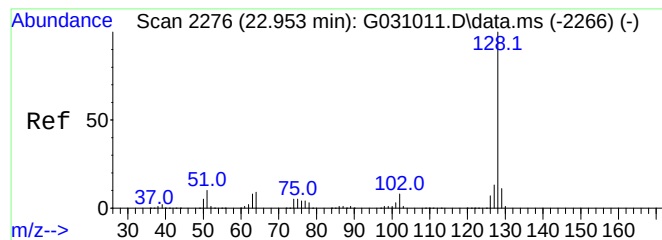
Tgt Ion:166 Resp: 8316
Ion Ratio Lower Upper
166 100
168 47.1 27.0 67.0
129 74.7 60.6 100.6



#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.24 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.001 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

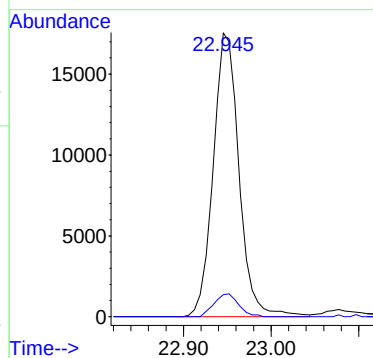
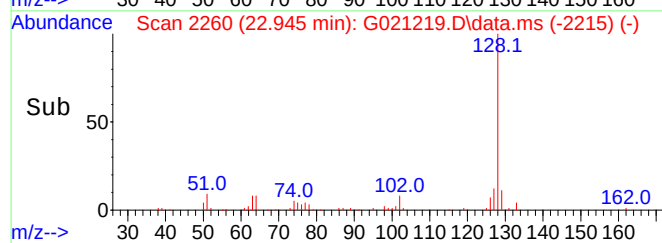
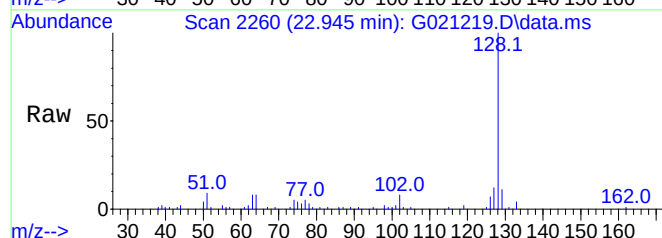
Tgt Ion:105 Resp: 33018
Ion Ratio Lower Upper
105 100
120 46.7 24.8 64.8





#67
NAPHTHALENE
Concen: 0.20 PPBV
RT: 22.945 min Scan# 2260
Delta R.T. -0.007 min
Lab File: G021219.D
Acq: 13 Feb 2012 1:34 pm

Tgt Ion:128 Resp: 35960
Ion Ratio Lower Upper
128 100
102 7.7 0.0 28.6



Data File : C:\msdchem\1\data\G021212\G021219.D
Acq On : 13 Feb 2012 1:34 pm
Sample : 12B0323-14 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:59:55 2012

Vial: 12
Operator: TPH
Inst : SYSG
Multiplr: 1.00

381

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	939665	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	166974	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.376	95	600548	9.51	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	118.88%

Target Compounds	Qvalue

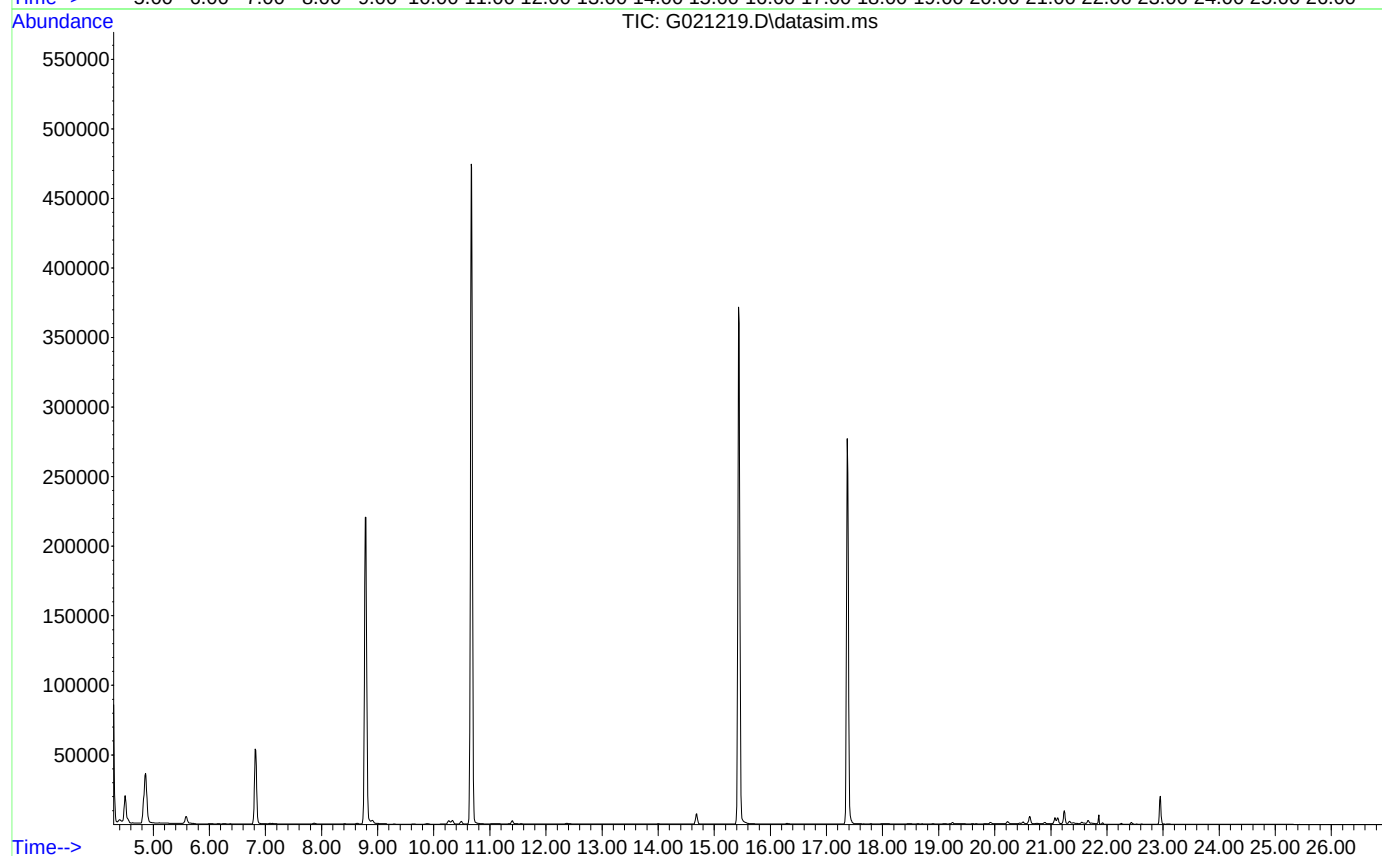
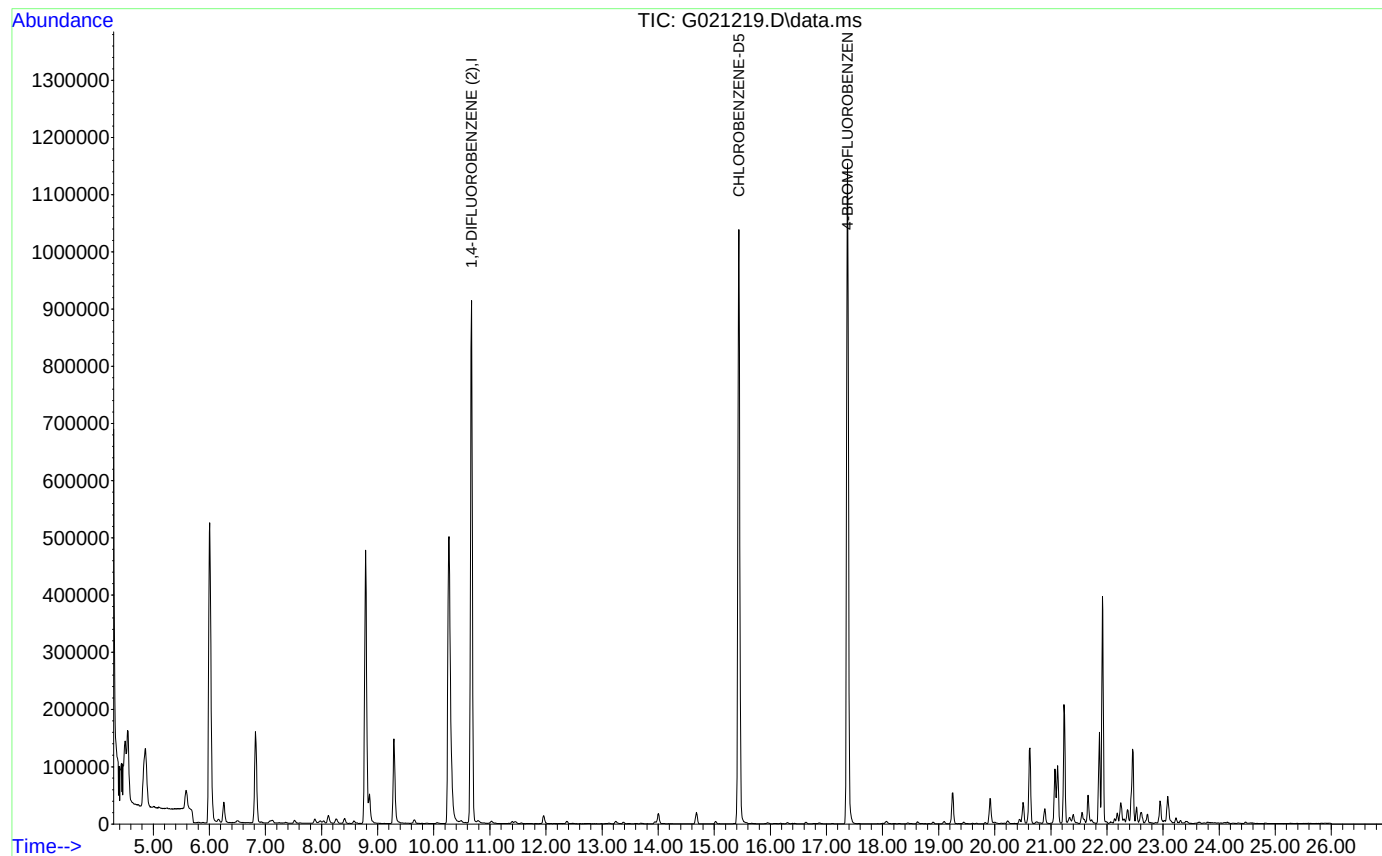
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021219.D
Acq On : 13 Feb 2012 1:34 pm
Sample : 12B0323-14 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:59:55 2012

Vial: 12
Operator: TPH
Inst : SYSG
Multiplr: 1.00

382

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-07

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-15 File ID: G021418.D
 Sampled: 02/08/12 17:17 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 23:50
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.23	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.069	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.60	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.57	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-07

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Indoor air Laboratory ID: 12B0323-15 File ID: G021418.D
Sampled: 02/08/12 17:17 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 23:50
Solids: Preparation: TO-15 Prep Dilution: 0.702
Initial/Final: 400 mL / 400 mL
Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	5.1	0.17	1.4	
100-41-4	Ethylbenzene		0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.38	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.10	0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene		0.011	0.035	
108-88-3	Toluene	0.34	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.26	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.084	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene		0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-07

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-15	File ID:	G021418.D		
Sampled:	02/08/12 17:17	Prepared:	02/14/12 10:43	Analyzed:	02/14/12 23:50		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	0.11	0.018	0.070	
95-47-6	o-Xylene	0.041	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021418.D
 Acq On : 14 Feb 2012 11:50 pm
 Sample : 12B0323-15 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:58:11 2012

Vial: 10
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

386

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	328592	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	1109266	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	986242	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	584332	8.70	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	108.75%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.549	85	52699	0.818	PPBV	Qvalue 98
4) CHLOROMETHANE	4.710	50	15892	0.858	PPBV	98
10) ACROLEIN	5.902	56	4148	0.538	PPBV	99
11) ACETONE	6.041	43	125200	3.918	PPBV	93
12) TRICHLOROFLUOROMETHANE	6.172	101	18833	0.367	PPBV	100
13) ETHANOL	5.621	45	48886	7.270	PPBV	99
15) METHYLENE CHLORIDE	6.832	49	19432	0.543	PPBV	# 75
16) FREON 113	7.092	101	6933	0.119	PPBV	87
21) IPA	6.328	45	27717	0.824	PPBV	87
22) 2-BUTANONE(MEK)	8.282	43	28286	0.437	PPBV	84
25) HEXANE	8.855	41	8348	0.248	PPBV	94
32) BENZENE	10.346	78	45498	0.331	PPBV	94
33) CARBON TETRACHLORIDE	10.496	117	6455	0.098	PPBV	96
41) MIBK	12.427	43	15341	0.148	PPBV	90
46) TOLUENE	13.388	91	71448	0.481	PPBV	100
53) M/P-XYLENE	16.177	91	23609	0.159	PPBV	96
56) O-XYLENE	16.786	91	8666	0.059	PPBV	99

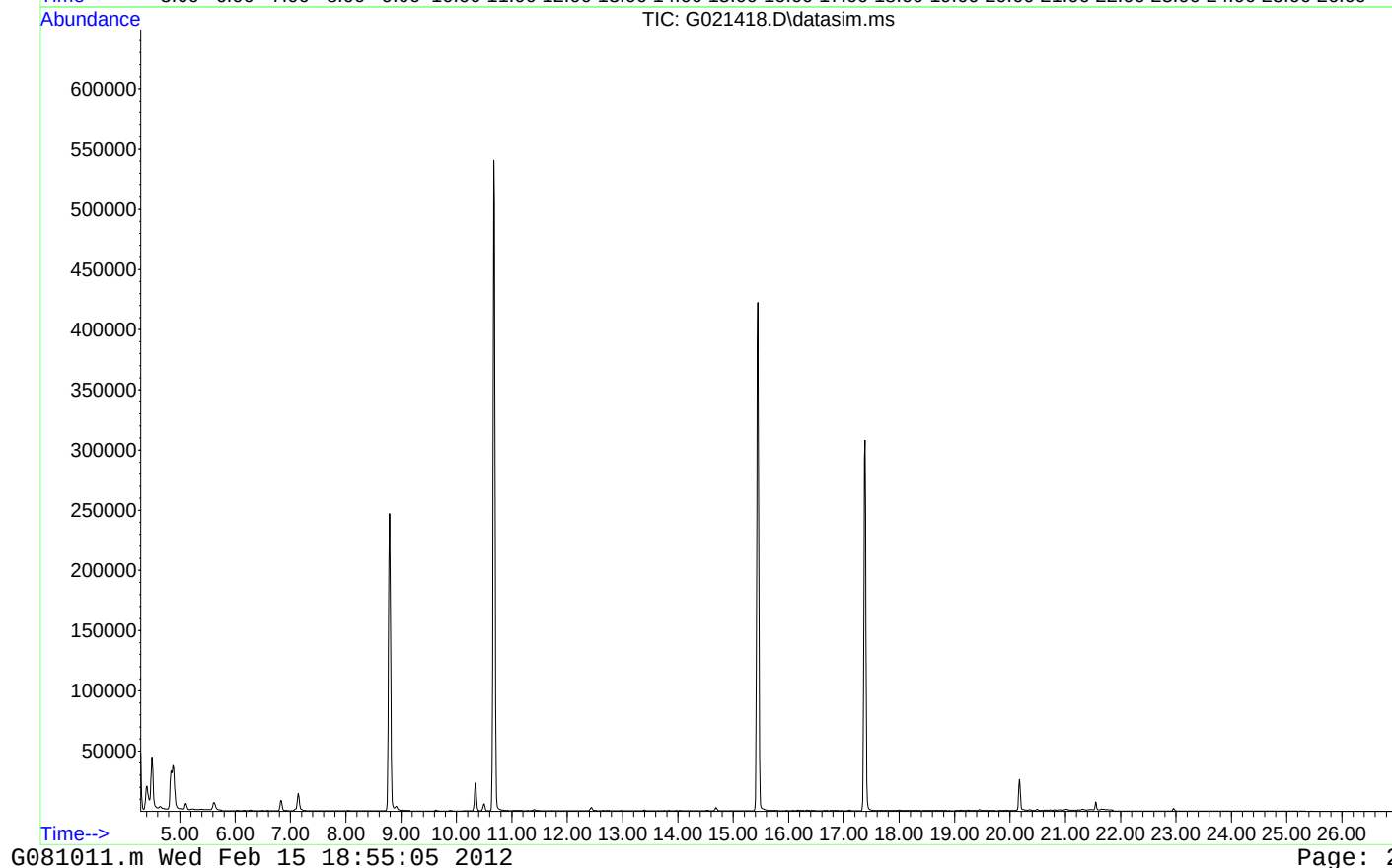
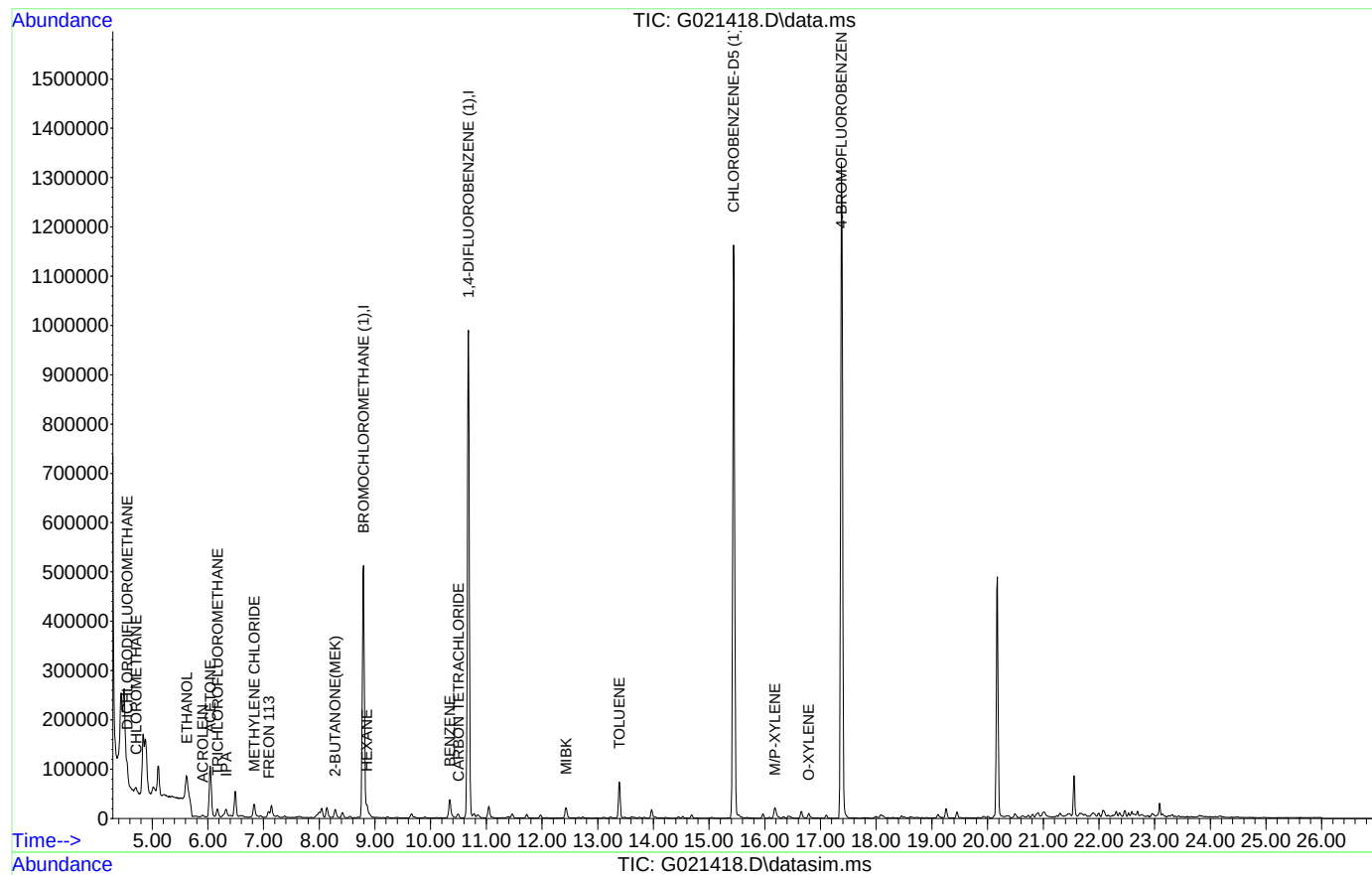
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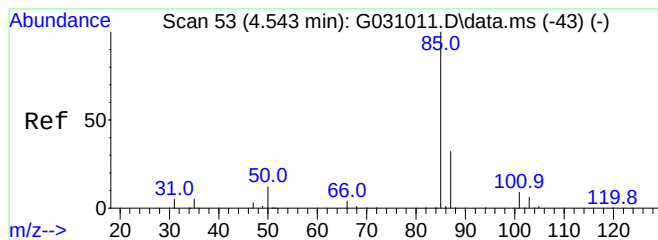
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Acq On : 14 Feb 2012 11:50 pm
Sample : 12B0323-15 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:58:11 2012

Vial: 10
Operator: WSD
Inst : SYSG
Multiplr: 1.00

387

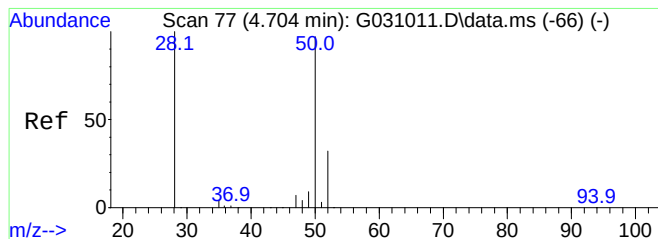
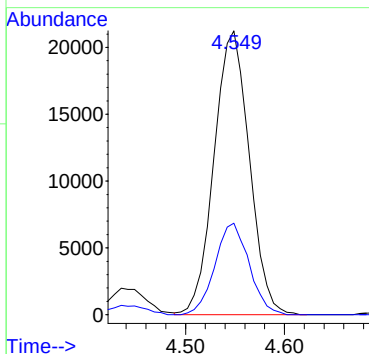
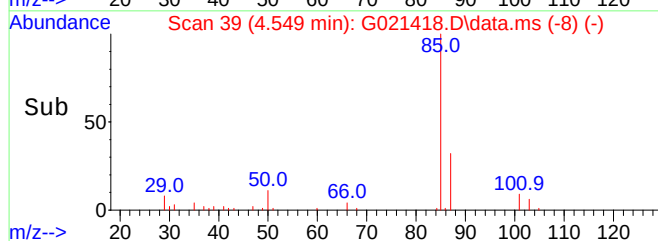
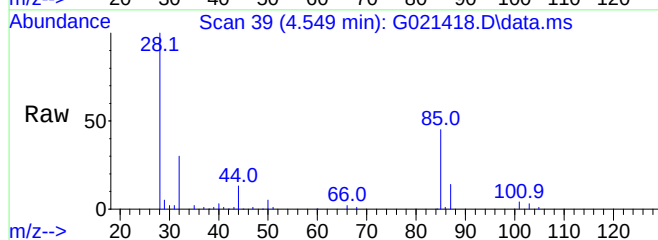
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Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





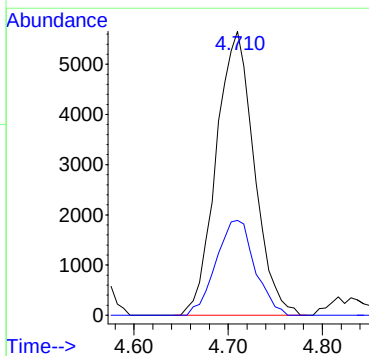
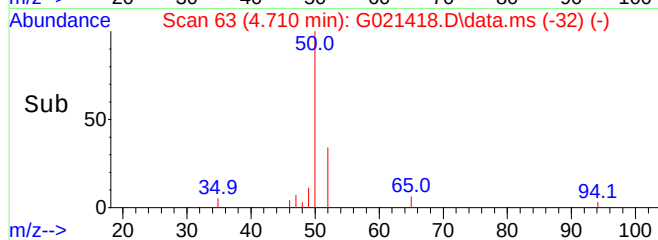
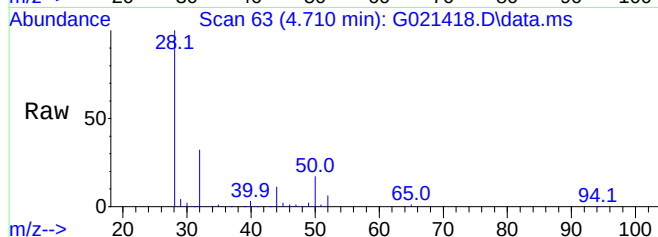
#3
DICHLORODIFLUOROMETHANE
Concen: 0.82 PPBV
RT: 4.549 min Scan# 39
Delta R.T. 0.006 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

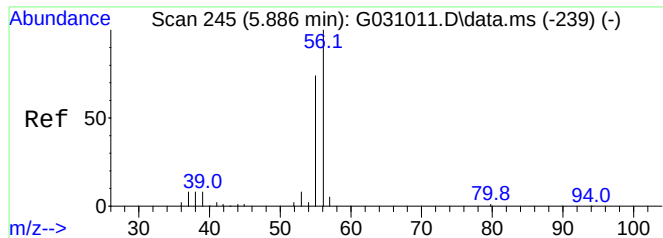
Tgt Ion: 85 Resp: 52699
Ion Ratio Lower Upper
85 100
87 31.2 12.1 52.1



#4
CHLOROMETHANE
Concen: 0.86 PPBV
RT: 4.710 min Scan# 63
Delta R.T. 0.006 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

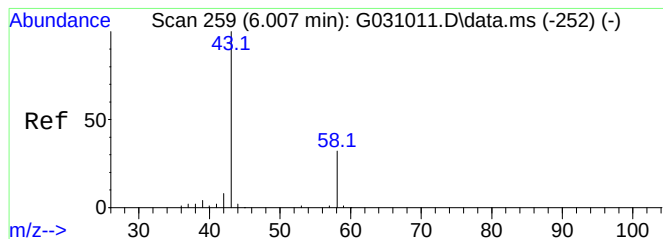
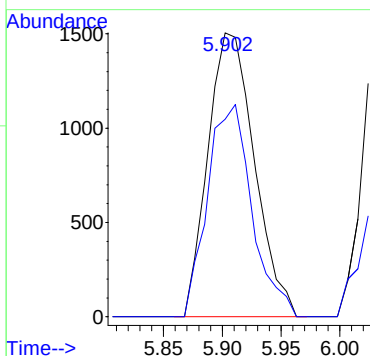
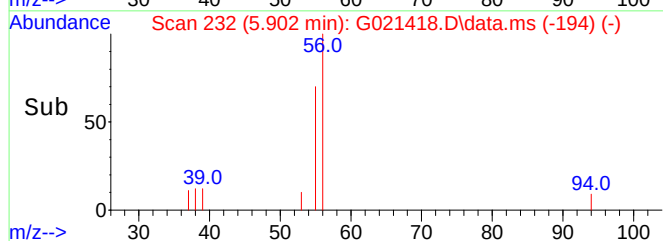
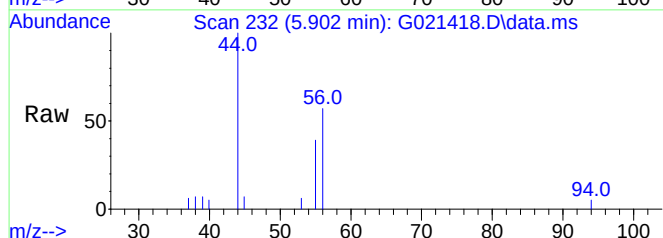
Tgt Ion: 50 Resp: 15892
Ion Ratio Lower Upper
50 100
52 34.2 12.8 52.8





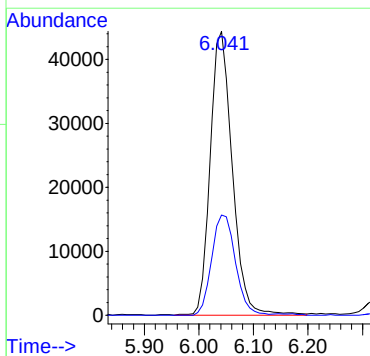
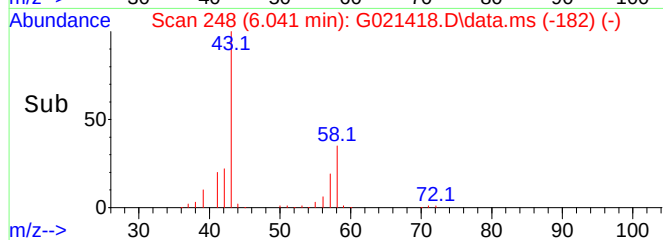
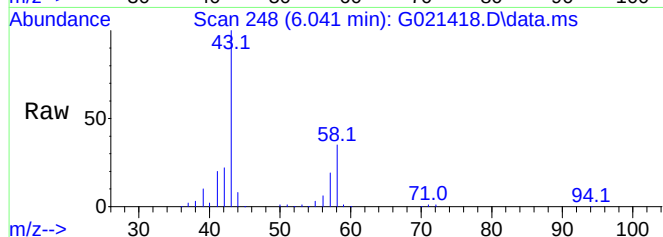
#10
ACROLEIN
Concen: 0.54 PPBV
RT: 5.902 min Scan# 232
Delta R.T. 0.017 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

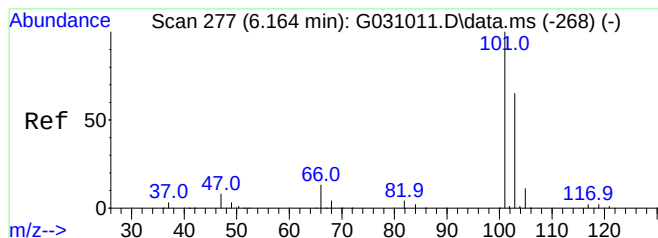
Tgt Ion: 56 Resp: 4148
Ion Ratio Lower Upper
56 100
55 71.1 56.1 84.1



#11
ACETONE
Concen: 3.92 PPBV
RT: 6.041 min Scan# 248
Delta R.T. 0.034 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

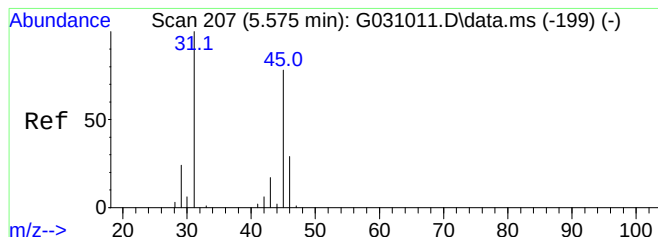
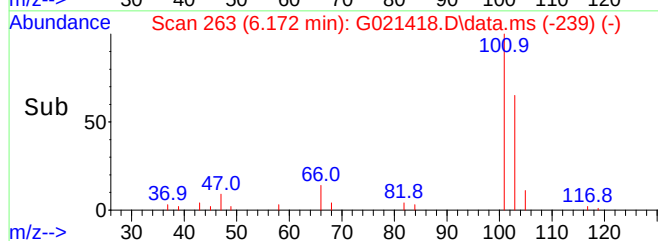
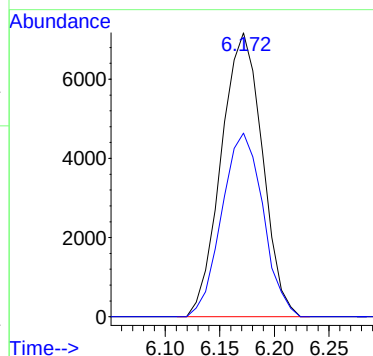
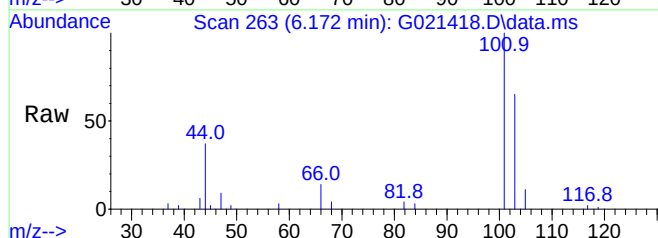
Tgt Ion: 43 Resp: 125200
Ion Ratio Lower Upper
43 100
58 38.0 13.9 53.9





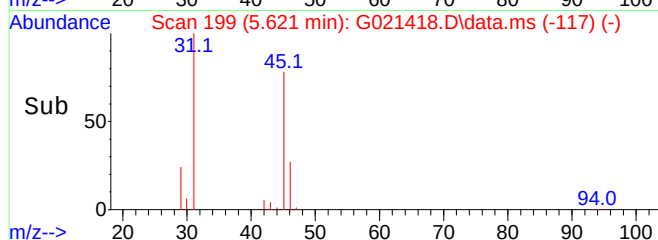
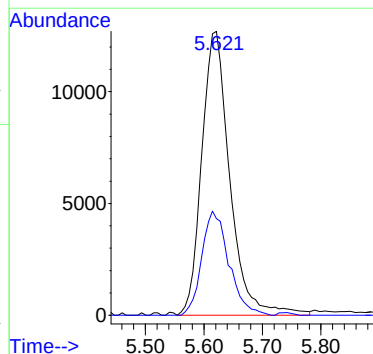
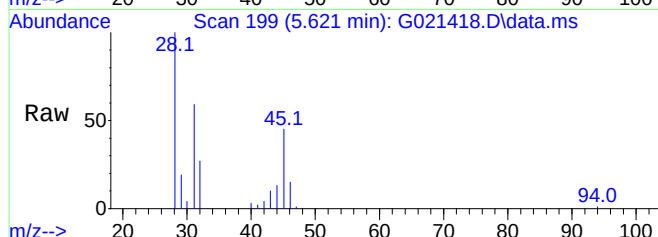
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.37 PPBV
 RT: 6.172 min Scan# 263
 Delta R.T. 0.008 min
 Lab File: G021418.D
 Acq: 14 Feb 2012 11:50 pm

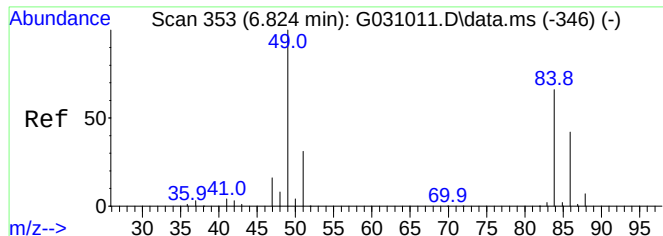
Tgt Ion: 101 Resp: 18833
 Ion Ratio Lower Upper
 101 100
 103 65.0 44.8 84.8



#13
 ETHANOL
 Concen: 7.27 PPBV
 RT: 5.621 min Scan# 199
 Delta R.T. 0.047 min
 Lab File: G021418.D
 Acq: 14 Feb 2012 11:50 pm

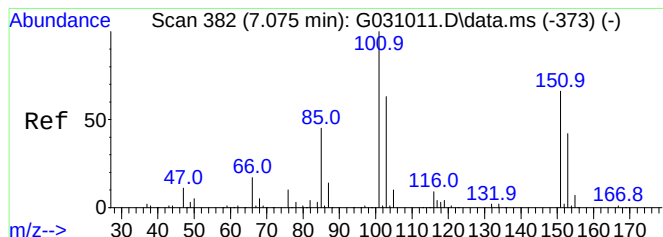
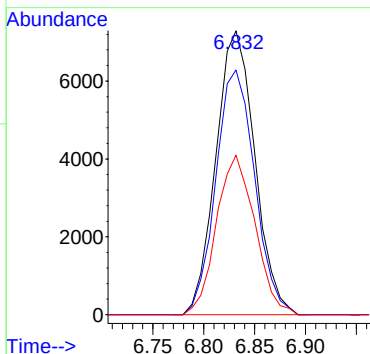
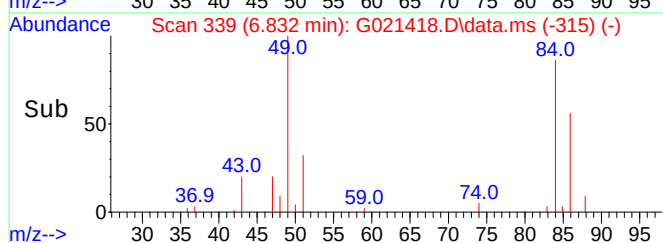
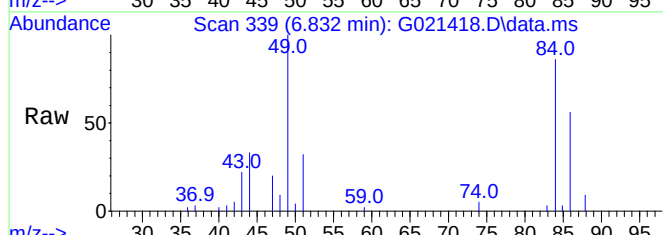
Tgt Ion: 45 Resp: 48886
 Ion Ratio Lower Upper
 45 100
 46 33.2 14.0 54.0





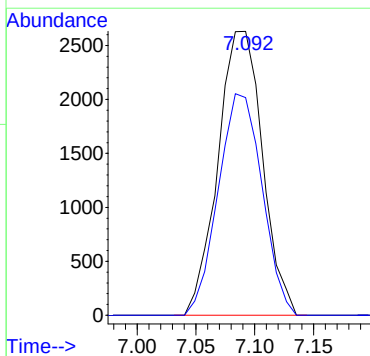
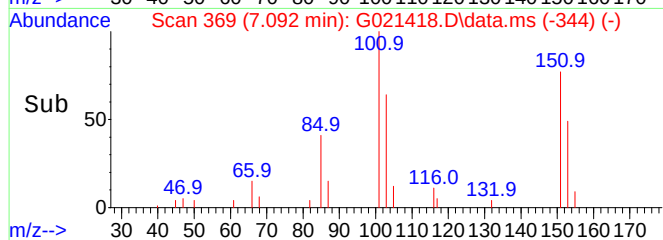
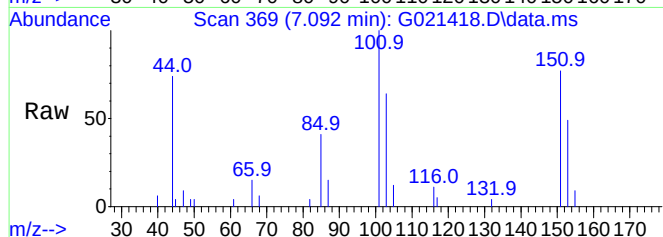
#15
METHYLENE CHLORIDE
Concen: 0.54 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

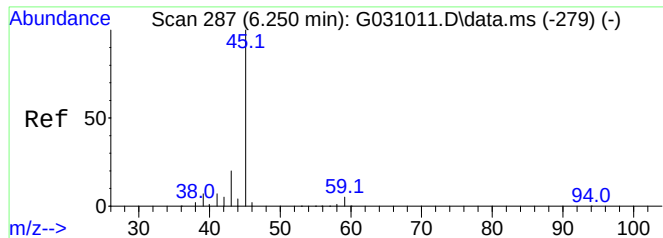
Tgt Ion	Ratio	Lower	Upper
49	100		
84	86.1	45.2	85.2#
86	55.5	21.4	61.4



#16
FREON 113
Concen: 0.12 PPBV
RT: 7.092 min Scan# 369
Delta R.T. 0.017 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

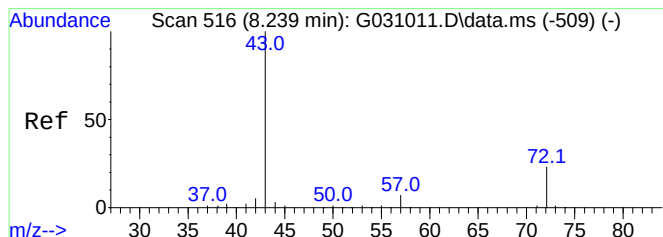
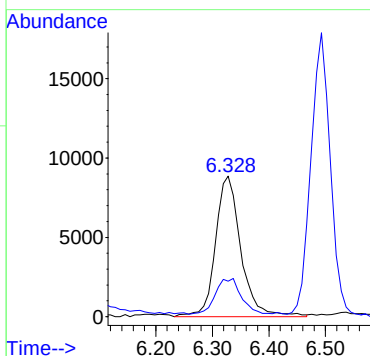
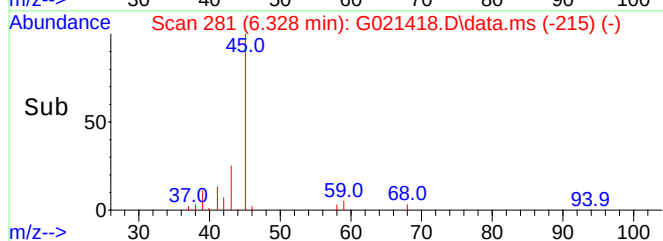
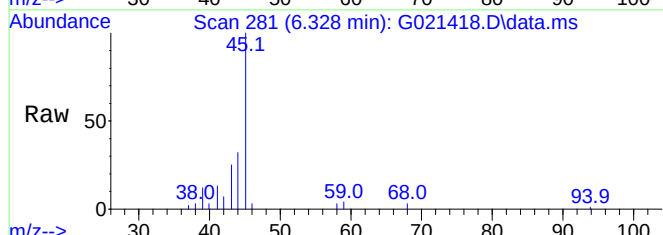
Tgt Ion	Ratio	Lower	Upper
101	100		
151	76.8	46.3	86.3





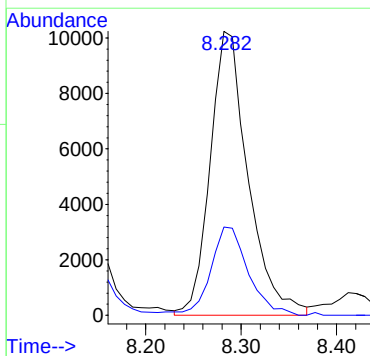
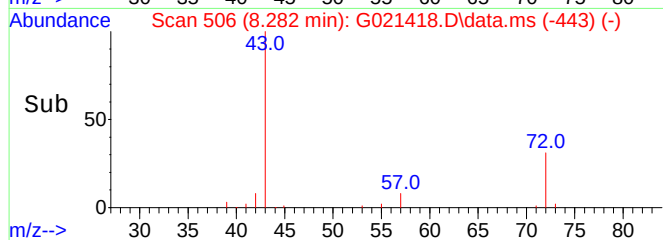
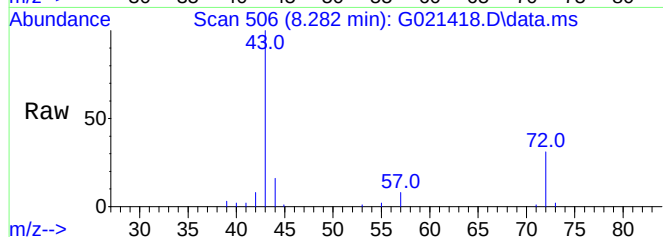
#21
IPA
Concen: 0.82 PPBV
RT: 6.328 min Scan# 281
Delta R.T. 0.078 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

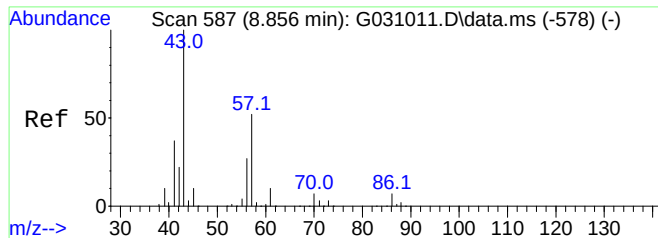
Tgt Ion: 45 Resp: 27717
Ion Ratio Lower Upper
45 100
43 26.6 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.44 PPBV
RT: 8.282 min Scan# 506
Delta R.T. 0.043 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

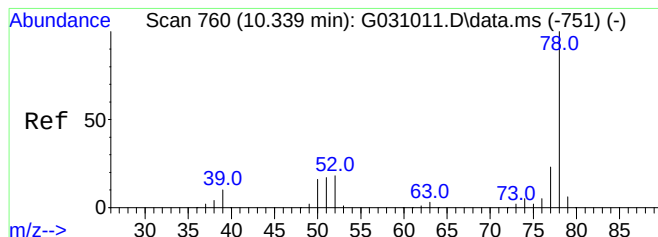
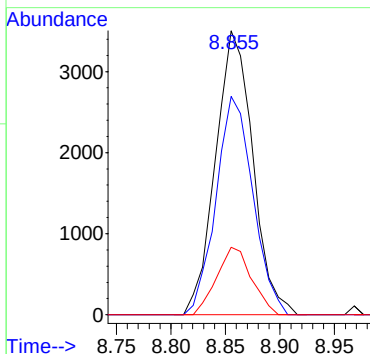
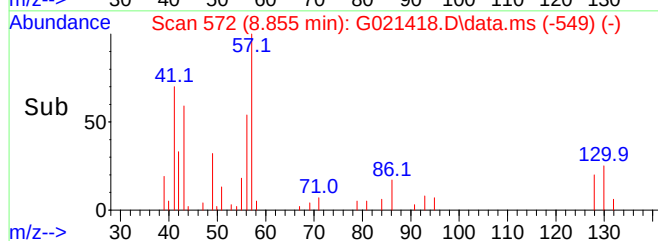
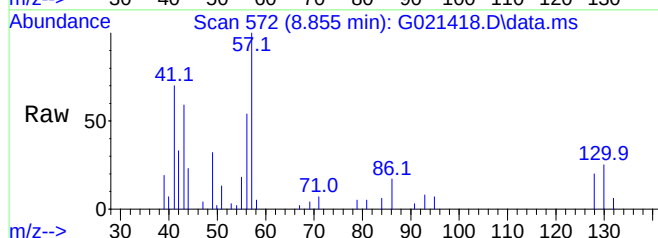
Tgt Ion: 43 Resp: 28286
Ion Ratio Lower Upper
43 100
72 30.5 2.6 42.6





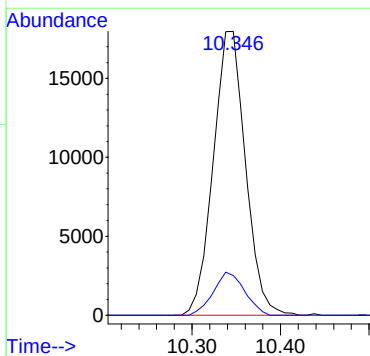
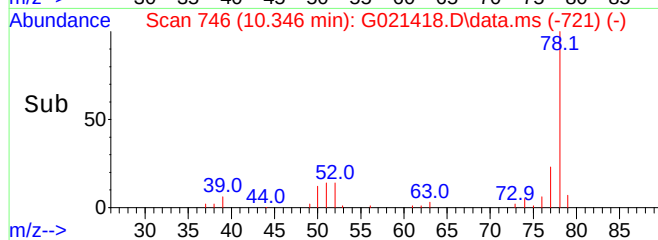
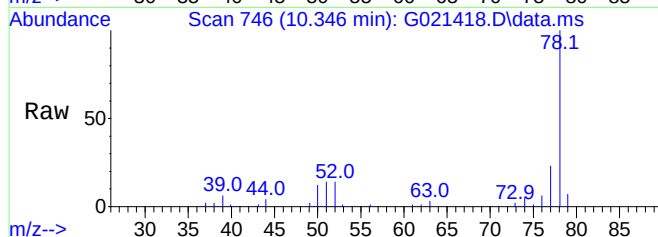
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HEXANE
Concen: 0.25 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.001 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

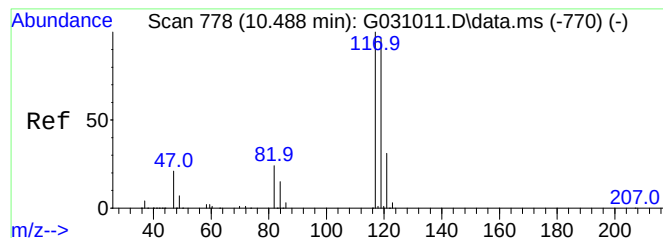
Tgt Ion: 41 Resp: 8348
Ion Ratio Lower Upper
41 100
56 76.2 50.8 90.8
86 22.2 9.6 29.6



#32
BENZENE
Concen: 0.33 PPBV
RT: 10.346 min Scan# 746
Delta R.T. 0.008 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

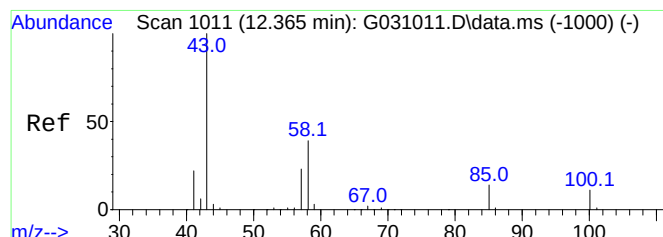
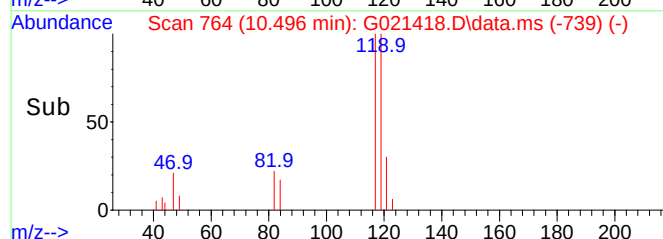
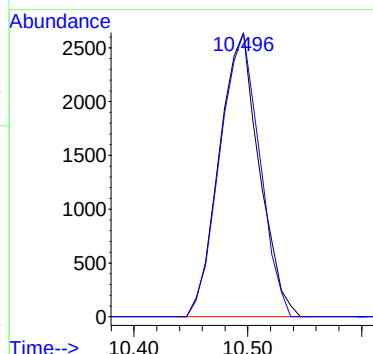
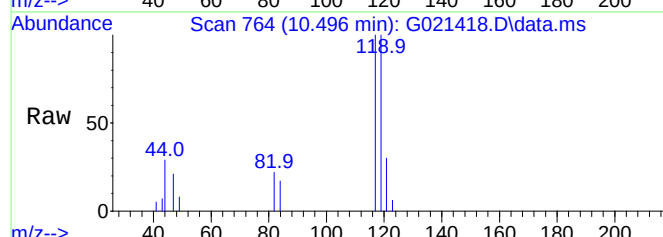
Tgt Ion: 78 Resp: 45498
Ion Ratio Lower Upper
78 100
51 14.8 0.0 37.6





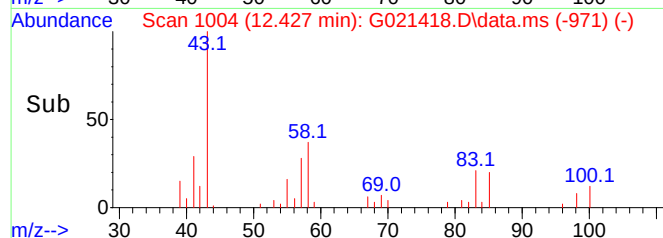
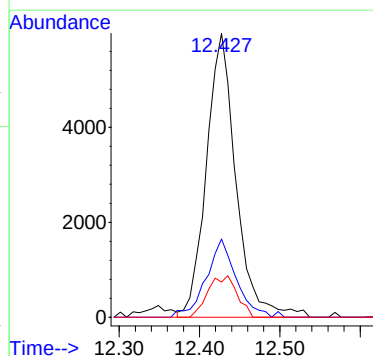
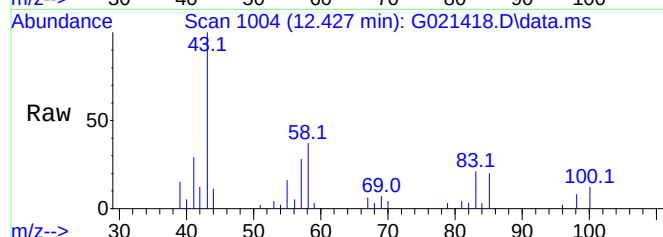
#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.496 min Scan# 764
Delta R.T. 0.008 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

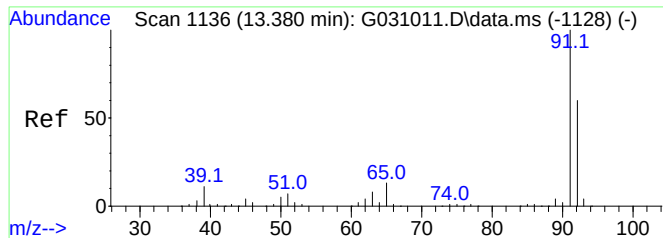
Tgt Ion: 117 Resp: 6455
Ion Ratio Lower Upper
117 100
119 99.4 75.4 115.4



#41
MIBK
Concen: 0.15 PPBV
RT: 12.427 min Scan# 1004
Delta R.T. 0.062 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

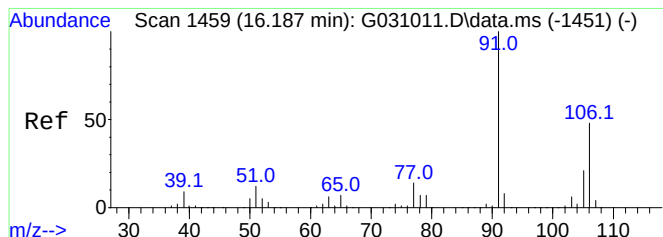
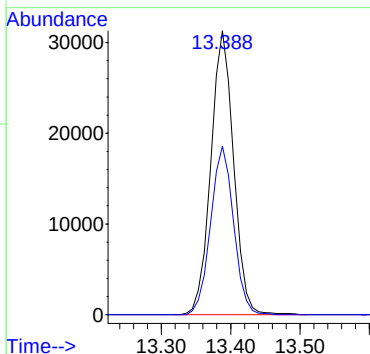
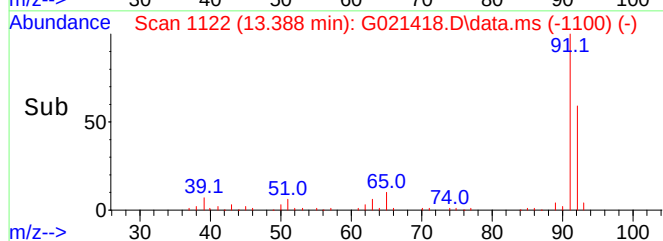
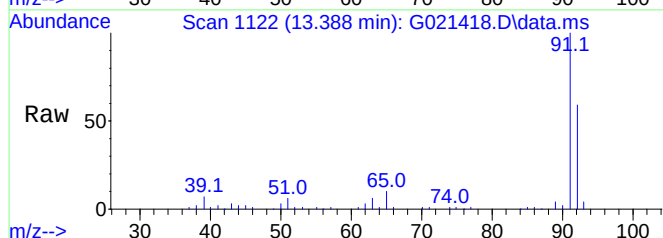
Tgt Ion: 43 Resp: 15341
Ion Ratio Lower Upper
43 100
57 28.2 2.8 42.8
100 14.4 1.0 21.0





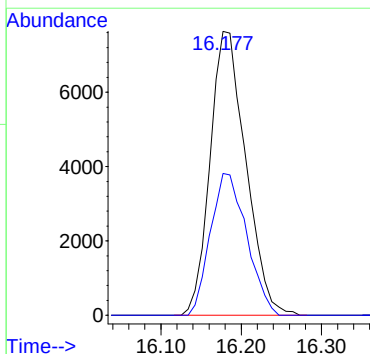
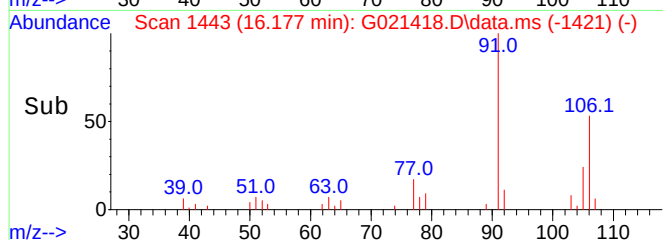
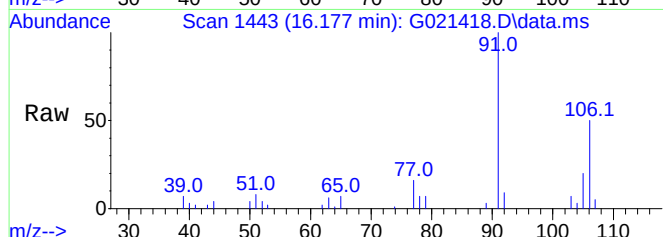
#46
TOLUENE
Concen: 0.48 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

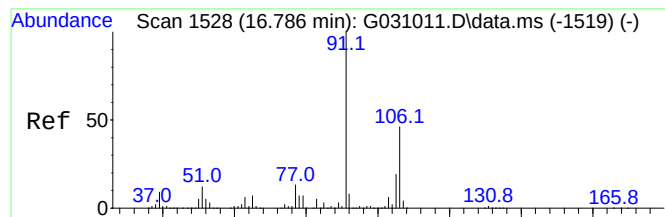
Tgt Ion: 91 Resp: 71448
Ion Ratio Lower Upper
91 100
92 59.8 39.7 79.7



#53
M/P-XYLENE
Concen: 0.16 PPBV
RT: 16.177 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

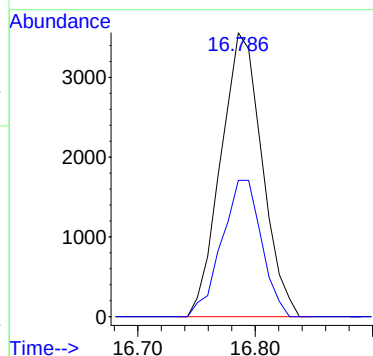
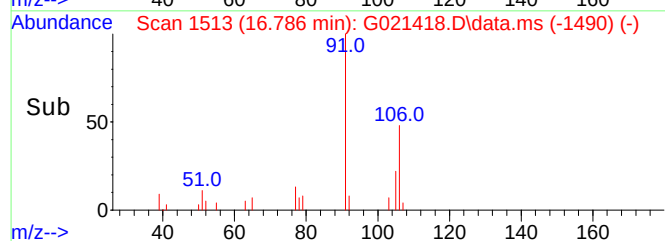
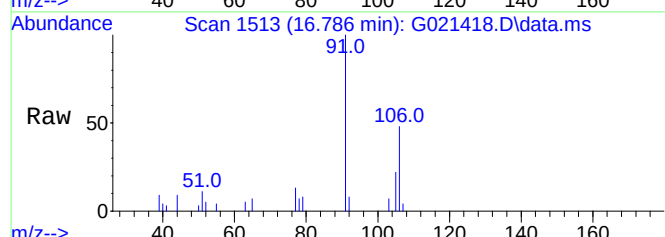
Tgt Ion: 91 Resp: 23609
Ion Ratio Lower Upper
91 100
106 50.7 28.3 68.3





#56
O-XYLENE
Concen: 0.06 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.001 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

Tgt Ion: 91 Resp: 8666
Ion Ratio Lower Upper
91 100
106 46.3 25.5 65.5



Data File : C:\msdchem\1\data\G021412\G021418.D
 Acq On : 14 Feb 2012 11:50 pm
 Sample : 12B0323-15 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:16:40 2012

Vial: 10
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

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Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	1108466	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.439	54	184340	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	720884	10.34	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	129.25%
Target Compounds						
5) 2,2,4-TRIMETHYLPENTANE	11.468	57	8233	0.052	PPBV	87
6) METHYLCYCLOHEXANE	12.443	83	4086	0.063	PPBV	90

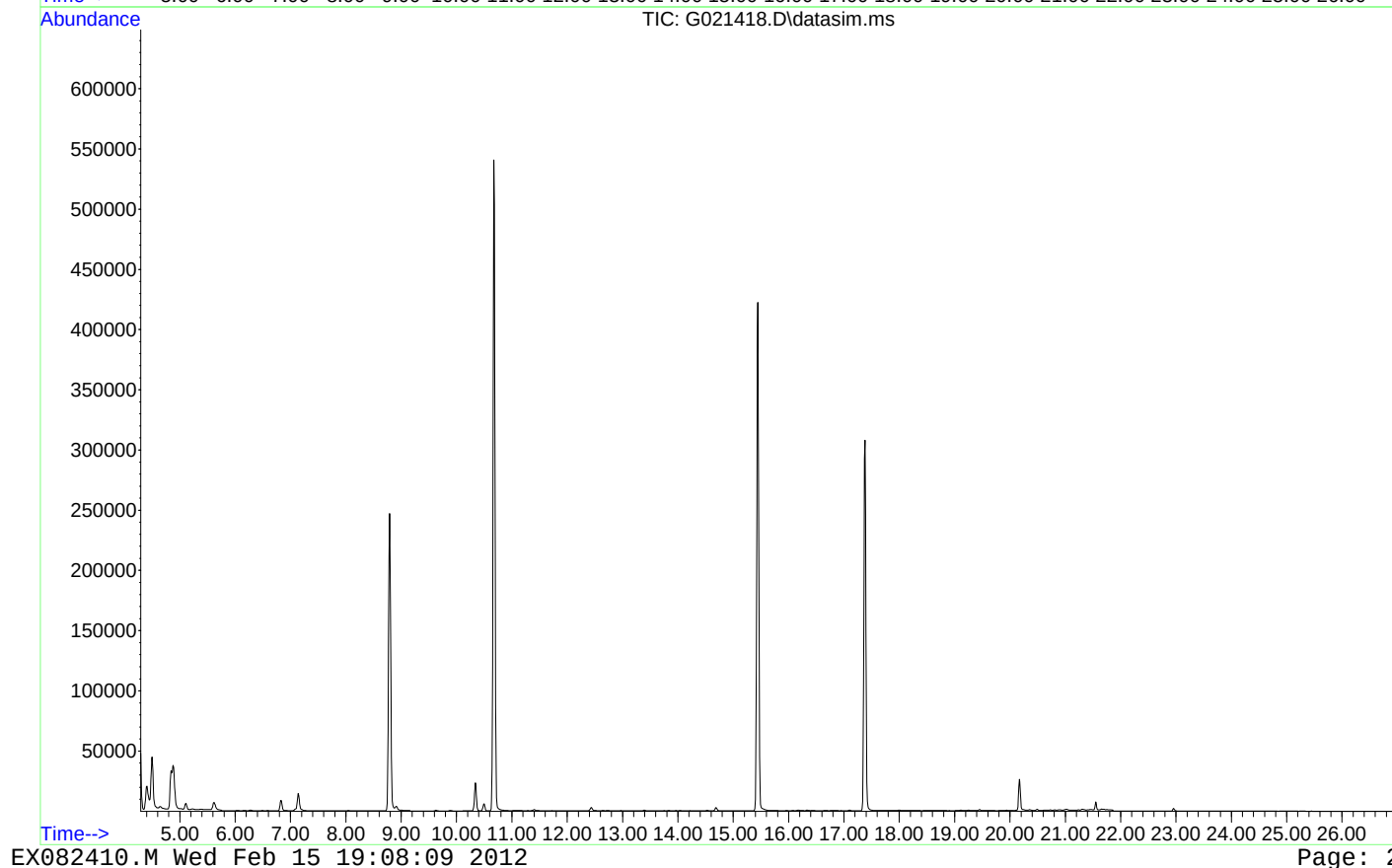
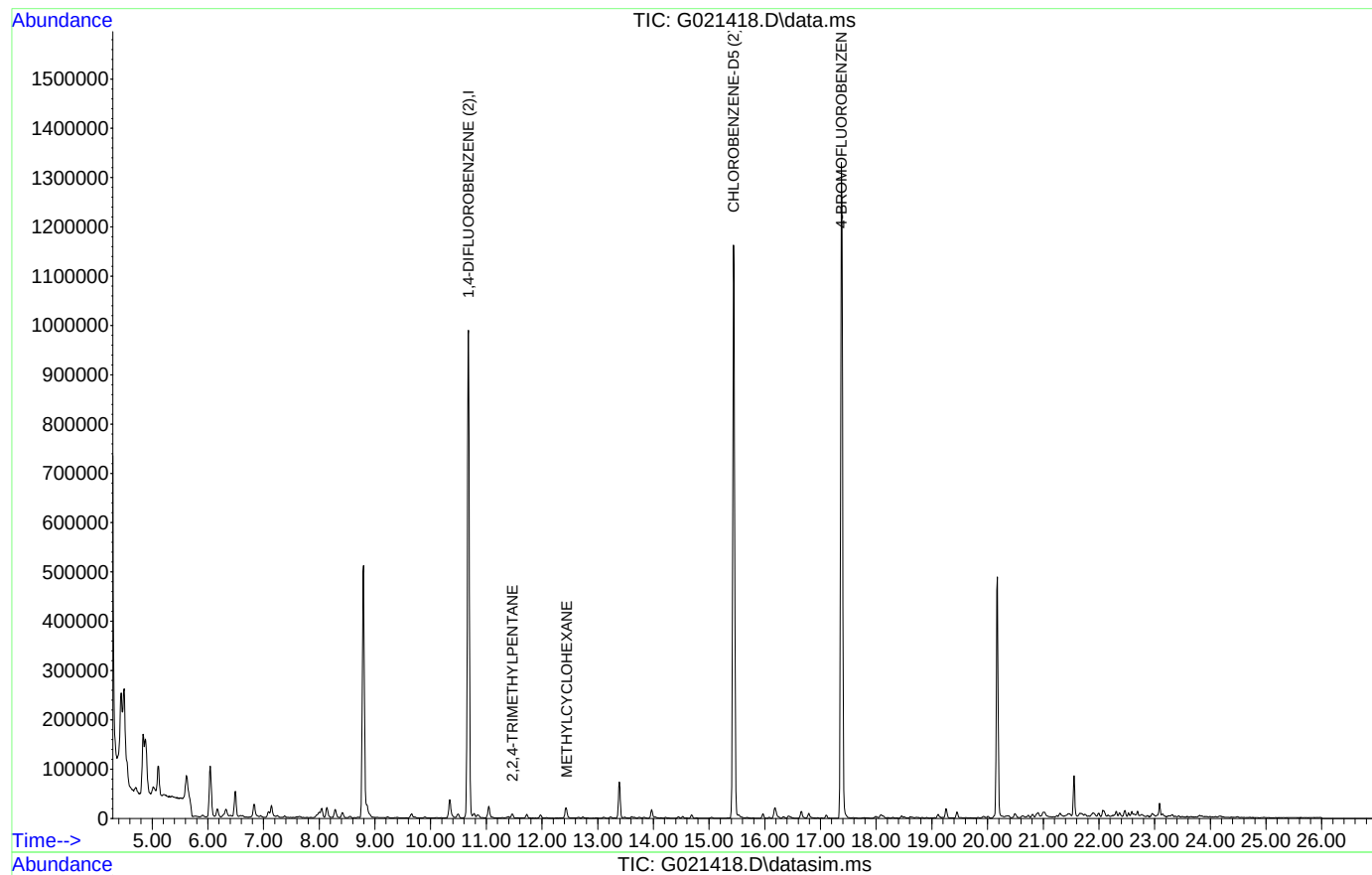
(#) = qualifier out of range (m) = manual integration (+) = signals summed

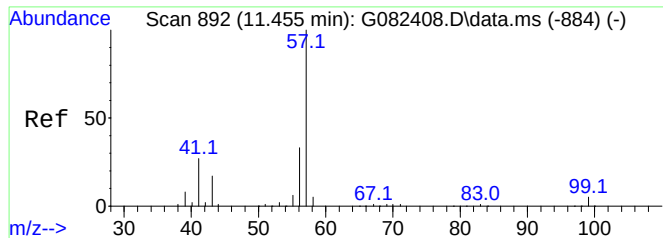
Data File : C:\msdchem\1\data\G021412\G021418.D
Acq On : 14 Feb 2012 11:50 pm
Sample : 12B0323-15 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:16:40 2012

Vial: 10
Operator: WSD
Inst : SYSG
Multiplr: 1.00

398

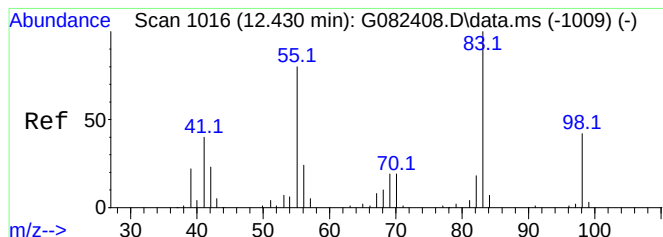
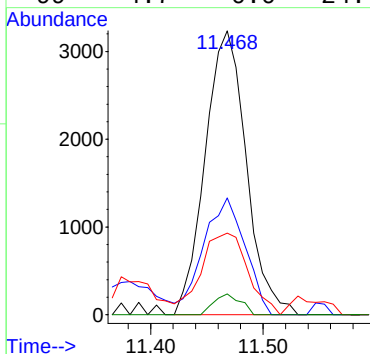
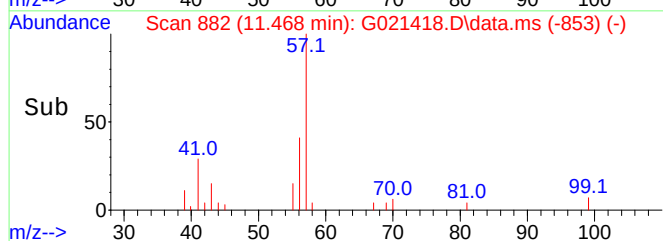
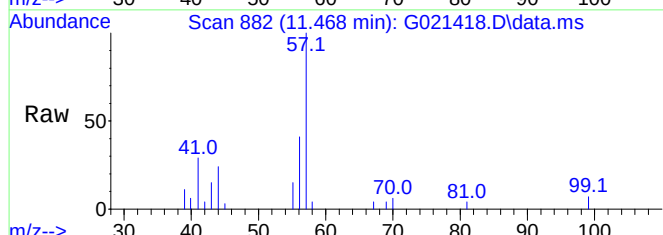
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





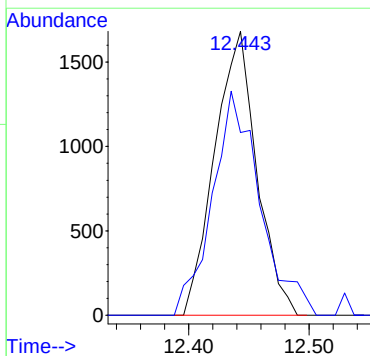
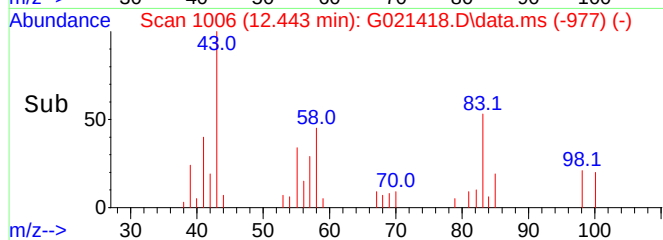
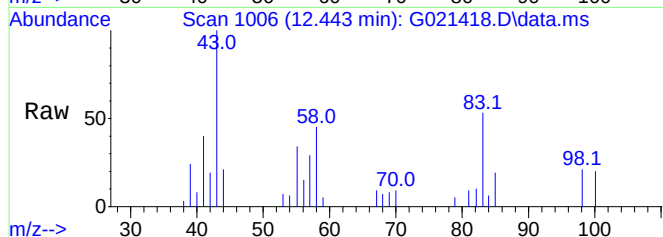
#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 11.468 min Scan# 882
Delta R.T. 0.028 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

Tgt Ion	Ratio	Lower	Upper
57	100		
56	41.8	13.7	53.7
41	32.6	5.8	45.8
99	4.7	0.0	24.7



#6
METHYLCYCLOHEXANE
Concen: 0.06 PPBV
RT: 12.443 min Scan# 1006
Delta R.T. 0.028 min
Lab File: G021418.D
Acq: 14 Feb 2012 11:50 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
55	89.2	60.5	100.5



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-08

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-16 File ID: G021220.D
 Sampled: 02/08/12 17:35 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 14:15
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)	5.0	0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform	0.15	0.036	0.10	
74-87-3	Chloromethane	0.19	0.050	0.10	
110-82-7	Cyclohexane	0.13	0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	20	0.042	0.10	
75-34-3	1,1-Dichloroethane	0.14	0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-08

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-16 File ID: G021220.D
 Sampled: 02/08/12 17:35 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 14:15
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol		0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	6.1	0.030	0.10	
108-88-3	Toluene		0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane	0.69	0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene	2.1	0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	0.51	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.11	0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-08

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-16	File ID:	G021220.D		
Sampled:	02/08/12 17:35	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 14:15		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021220.D
 Acq On : 13 Feb 2012 2:15 pm
 Sample : 12B0323-16 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 10:48:42 2012

Vial: 13
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	308081	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	951250	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	849422	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	473990	8.19	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.38%
Target Compounds						
						Qvalue
2) PROPENE	4.475	41	7269	0.360	PPBV	88
3) DICHLORODIFLUOROMETHANE	4.542	85	606054	10.037	PPBV	100
4) CHLOROMETHANE	4.710	50	1612	0.093	PPBV	81
10) ACROLEIN	5.902	56	1020	0.141	PPBV	# 79
11) ACETONE	6.024	43	82173	2.743	PPBV	97
12) TRICHLOROFLUOROMETHANE	6.163	101	12256	0.255	PPBV	94
13) ETHANOL	5.595	45	4537	0.720	PPBV	94
15) METHYLENE CHLORIDE	6.832	49	5341	0.159	PPBV	77
16) FREON 113	7.092	101	2911	0.053	PPBV	87
17) CARBON DISULFIDE	7.127	76	16430	0.192	PPBV	83
19) 1,1-DICHLOROETHANE	7.874	63	4046	0.070	PPBV	96
21) IPA	6.293	45	19577	0.621	PPBV	71
22) 2-BUTANONE (MEK)	8.247	43	150730	2.482	PPBV	87
27) CHLOROFORM	8.907	83	4477	0.073	PPBV	94
28) TETRAHYDROFURAN	9.333	71	179696	12.917	PPBV	100
31) 1,1,1-TRICHLOROETHANE	9.889	97	22091	0.347	PPBV	99
34) CYCLOHEXANE	10.663	84	3245	0.065	PPBV	# 24
37) TRICHLOROETHENE	11.397	95	51636	1.074	PPBV	90
50) TETRACHLOROETHENE	14.683	166	168690	3.059	PPBV	97

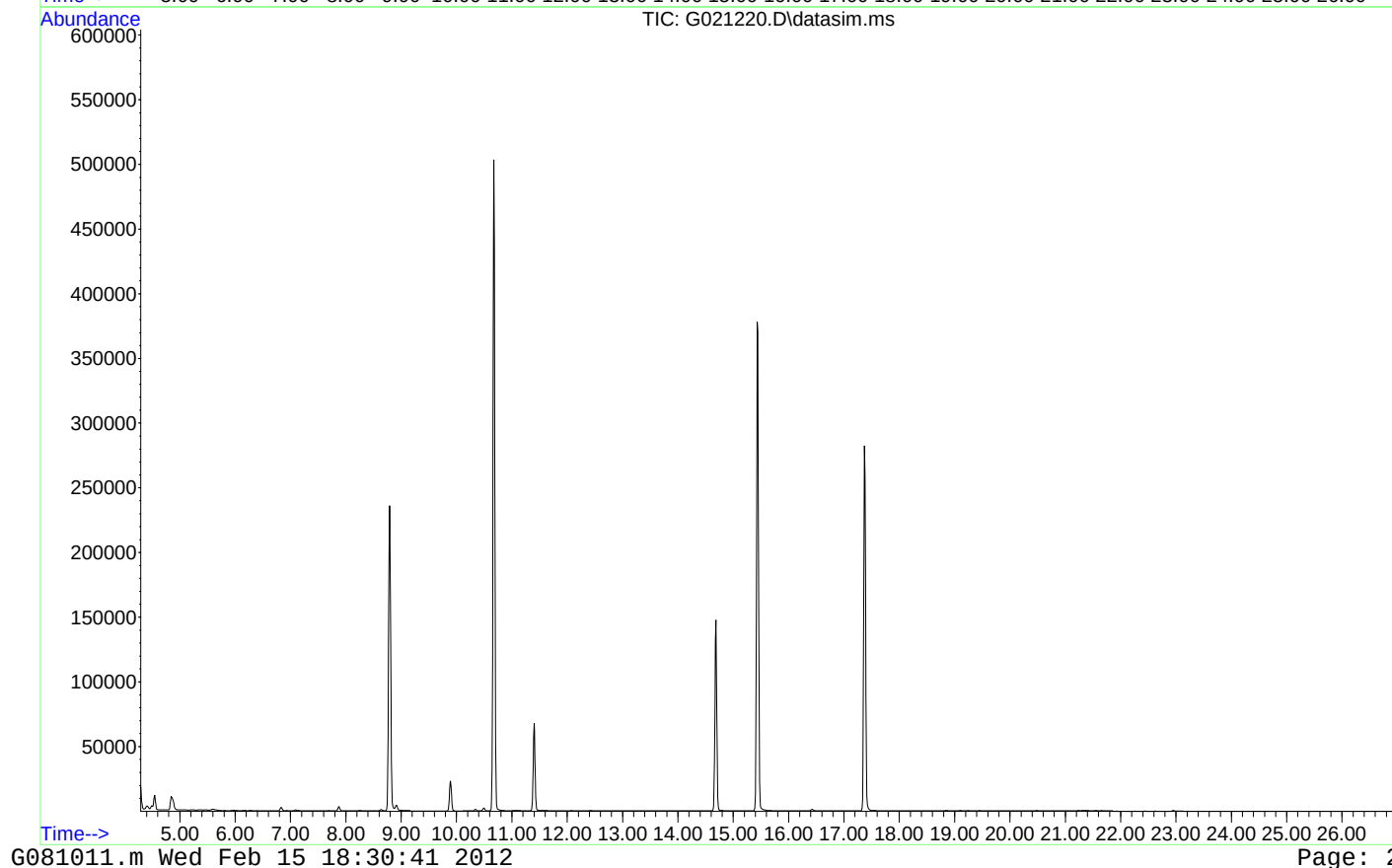
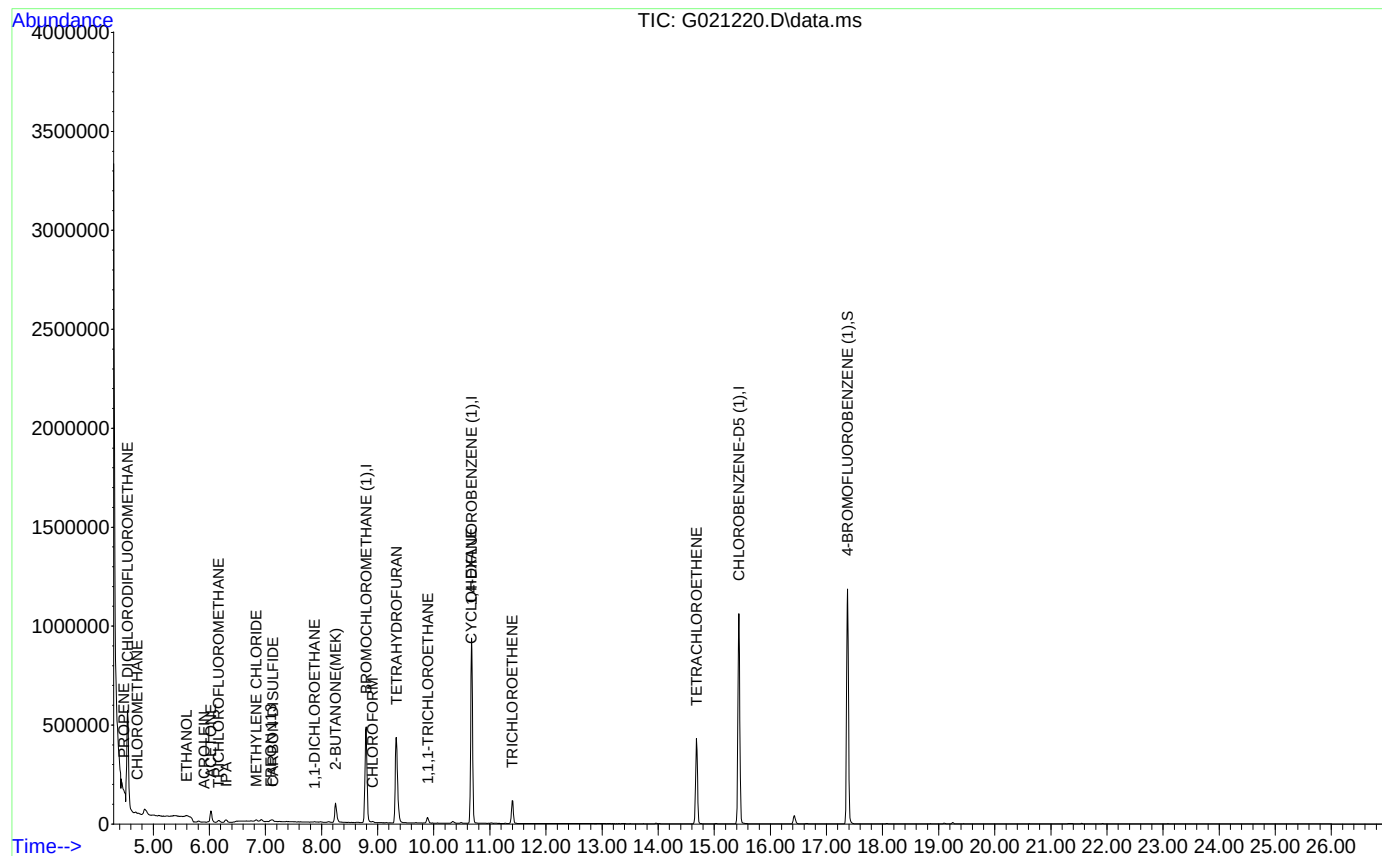
(#) = qualifier out of range (m) = manual integration (+) = signals summed

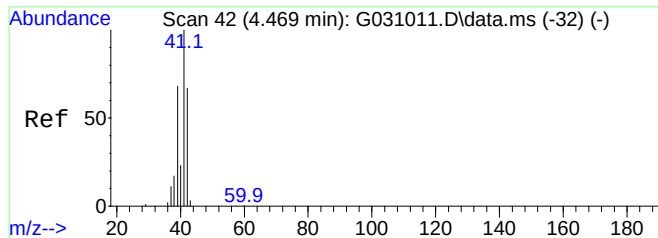
Data File : C:\msdchem\1\data\G021212\G021220.D
Acq On : 13 Feb 2012 2:15 pm
Sample : 12B0323-16 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 10:48:42 2012

Vial: 13
Operator: TPH
Inst : SYSG
Multiplr: 1.00

404

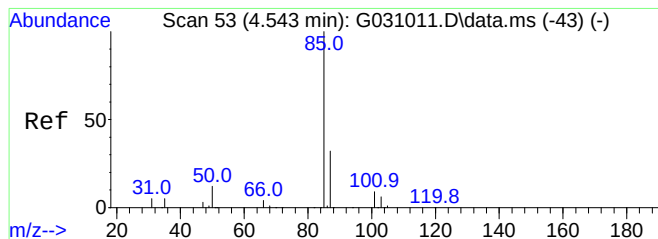
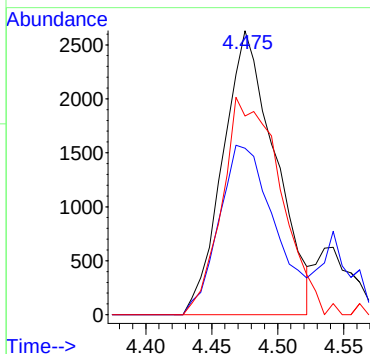
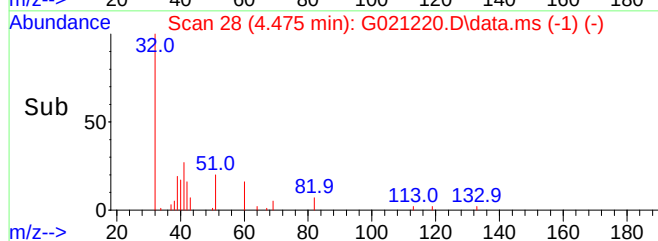
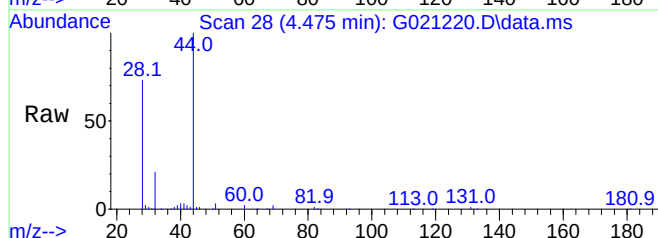
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





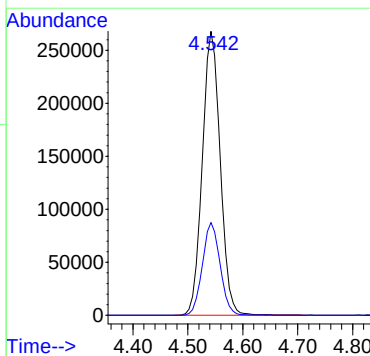
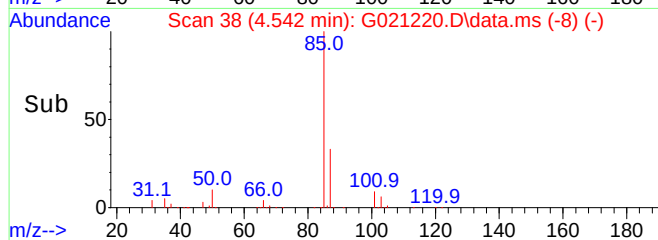
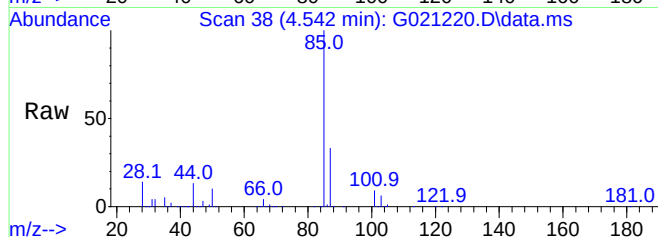
#2
PROPENE
Concen: 0.36 PPBV
RT: 4.475 min Scan# 28
Delta R.T. 0.007 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

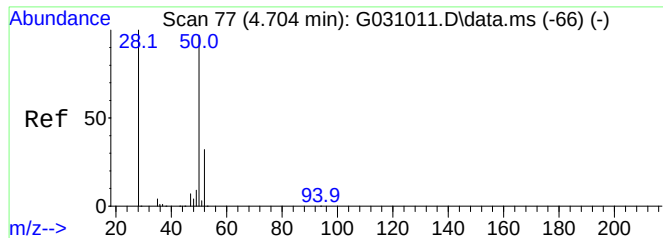
Tgt Ion: 41 Resp: 7269
Ion Ratio Lower Upper
41 100
42 63.5 46.4 86.4
39 85.3 48.8 88.8



#3
DICHLORODIFLUOROMETHANE
Concen: 10.04 PPBV
RT: 4.542 min Scan# 38
Delta R.T. -0.001 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

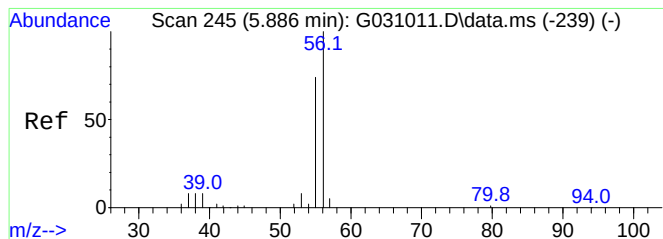
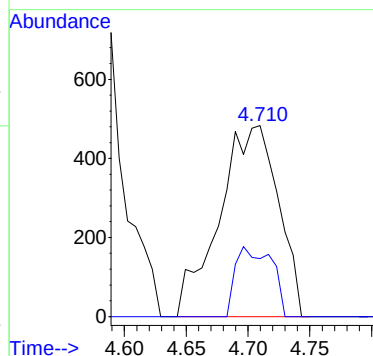
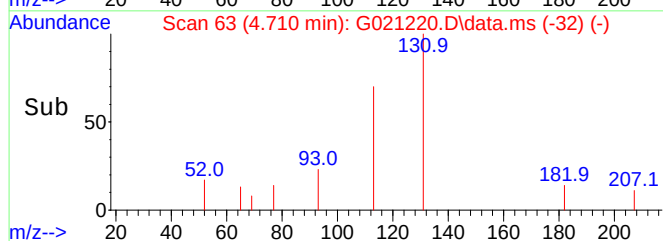
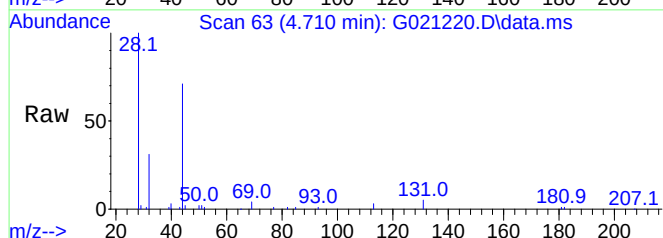
Tgt Ion: 85 Resp: 606054
Ion Ratio Lower Upper
85 100
87 32.3 12.1 52.1





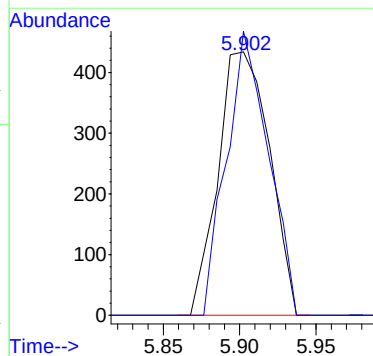
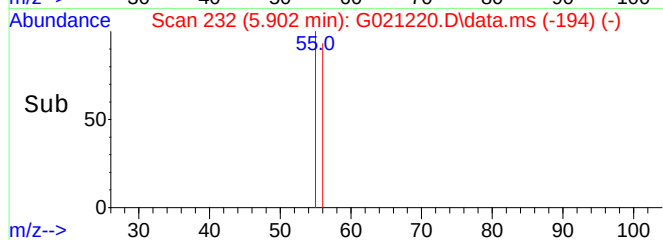
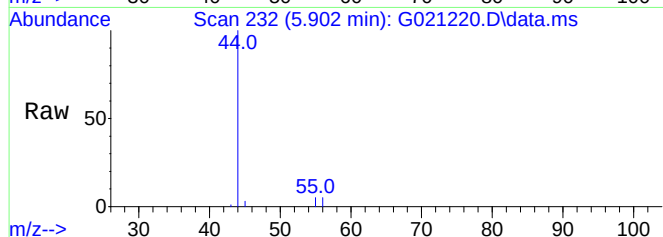
#4
CHLOROMETHANE
Concen: 0.09 PPBV
RT: 4.710 min Scan# 63
Delta R.T. 0.006 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

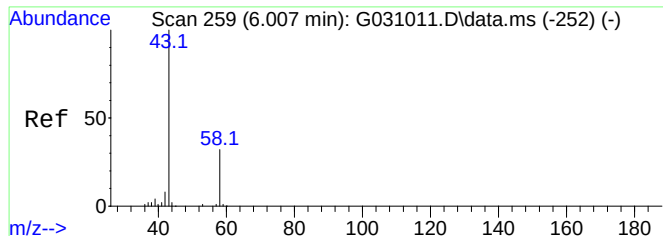
Tgt Ion: 50 Resp: 1612
Ion Ratio Lower Upper
50 100
52 22.2 12.8 52.8



#10
ACROLEIN
Concen: 0.14 PPBV
RT: 5.902 min Scan# 232
Delta R.T. 0.017 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

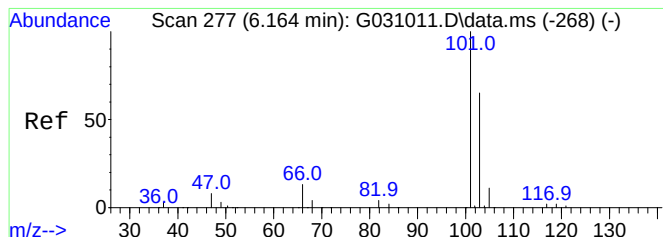
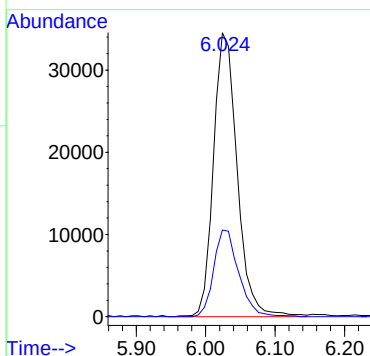
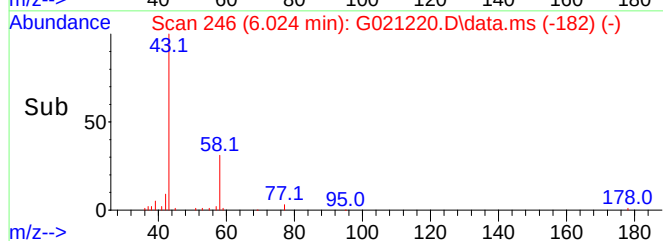
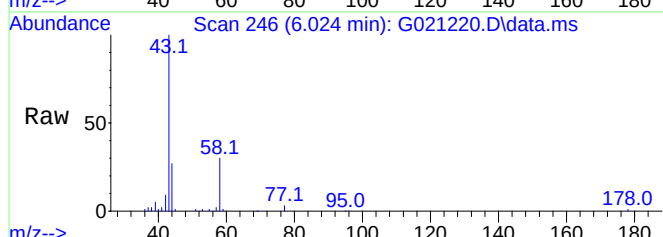
Tgt Ion: 56 Resp: 1020
Ion Ratio Lower Upper
56 100
55 87.5 56.1 84.1#





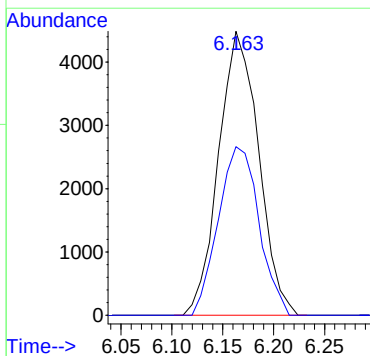
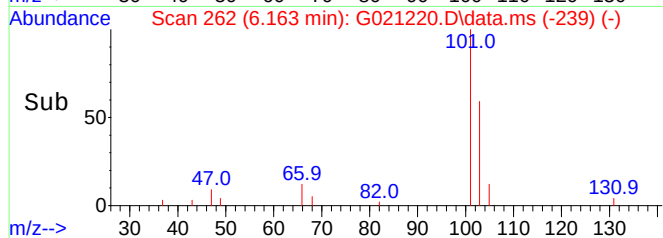
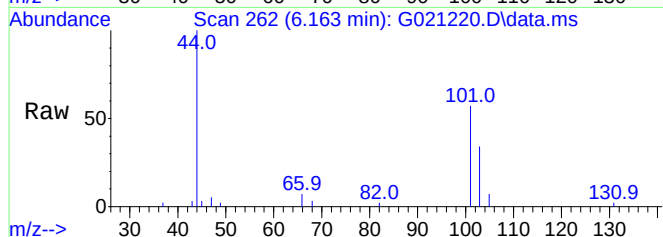
#11
ACETONE
Concen: 2.74 PPBV
RT: 6.024 min Scan# 246
Delta R.T. 0.017 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

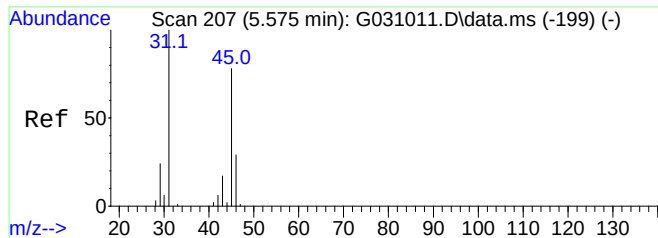
Tgt Ion: 43 Resp: 82173
Ion Ratio Lower Upper
43 100
58 32.2 13.9 53.9



#12
TRICHLOROFLUOROMETHANE
Concen: 0.25 PPBV
RT: 6.163 min Scan# 262
Delta R.T. -0.001 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

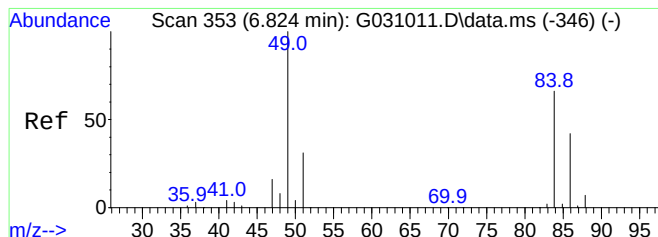
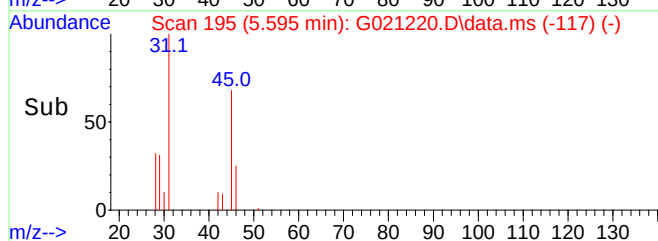
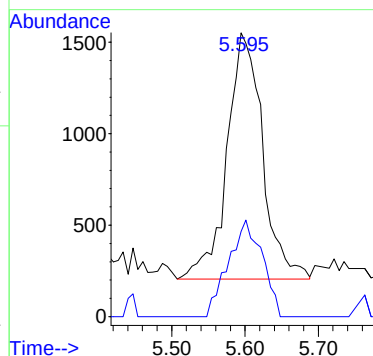
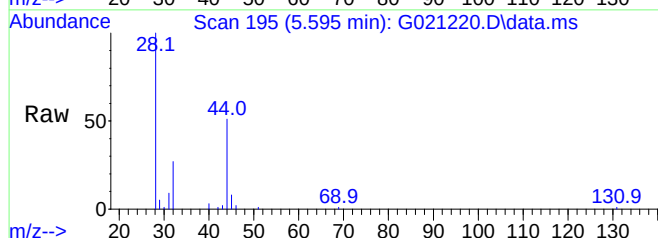
Tgt Ion: 101 Resp: 12256
Ion Ratio Lower Upper
101 100
103 60.4 44.8 84.8





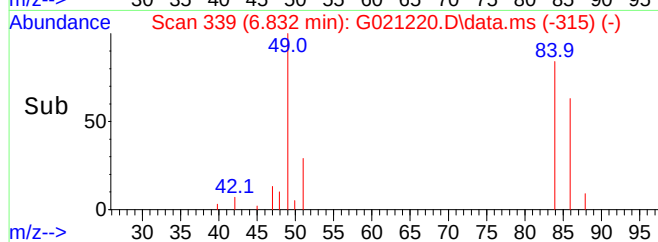
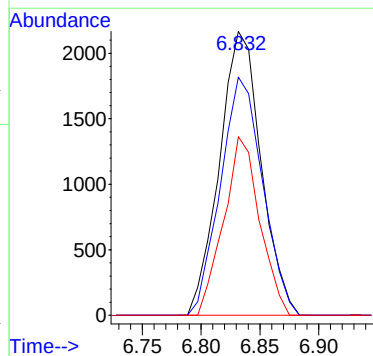
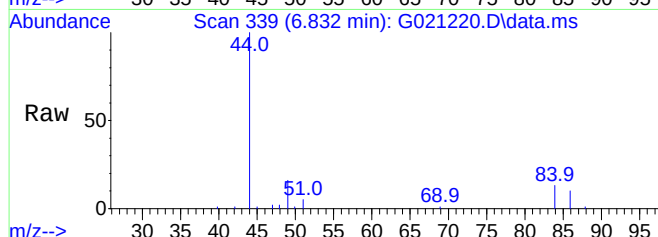
#13
ETHANOL
Concen: 0.72 PPBV
RT: 5.595 min Scan# 195
Delta R.T. 0.021 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

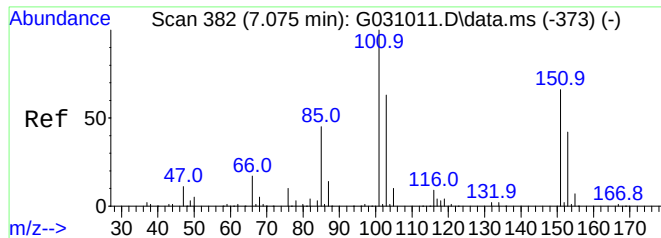
Tgt Ion: 45 Resp: 4537
Ion Ratio Lower Upper
45 100
46 37.2 14.0 54.0



#15
METHYLENE CHLORIDE
Concen: 0.16 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

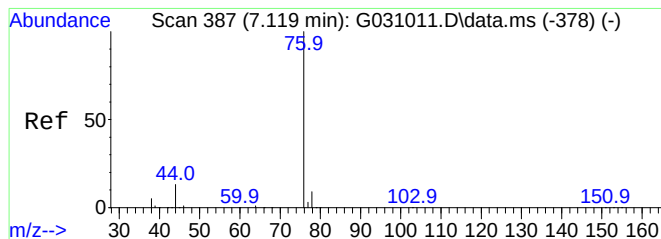
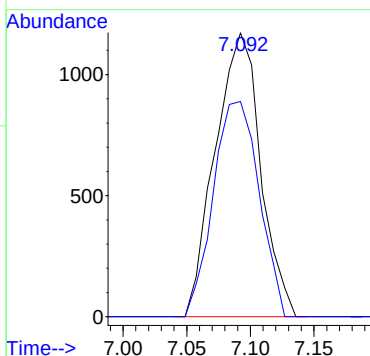
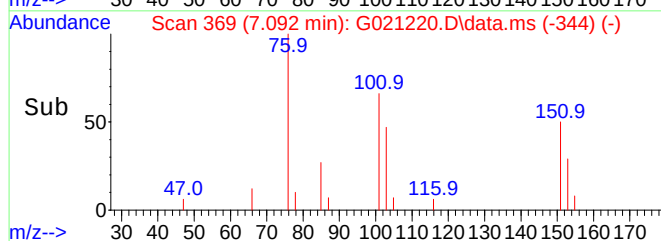
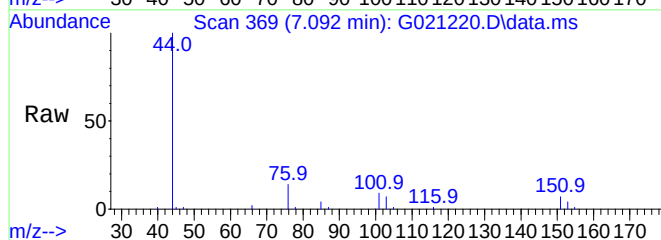
Tgt Ion: 49 Resp: 5341
Ion Ratio Lower Upper
49 100
84 84.9 45.2 85.2
86 54.2 21.4 61.4





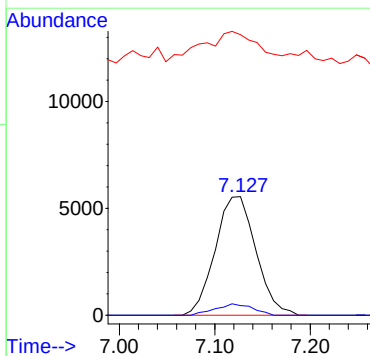
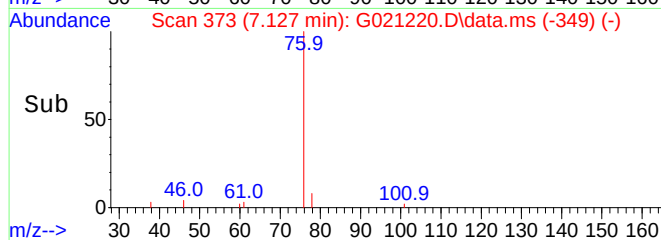
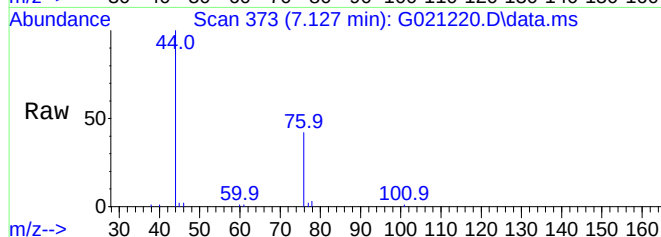
#16
FREON 113
Concen: 0.05 PPBV
RT: 7.092 min Scan# 369
Delta R.T. 0.017 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

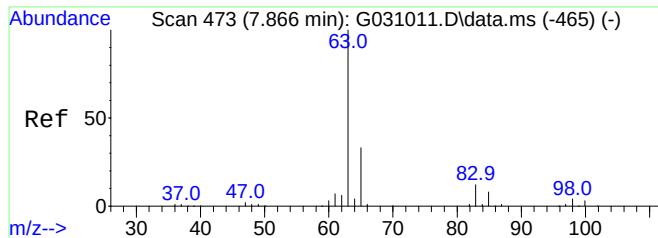
Tgt Ion: 101 Resp: 2911
Ion Ratio Lower Upper
101 100
151 76.6 46.3 86.3



#17
CARBON DISULFIDE
Concen: 0.19 PPBV
RT: 7.127 min Scan# 373
Delta R.T. 0.008 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

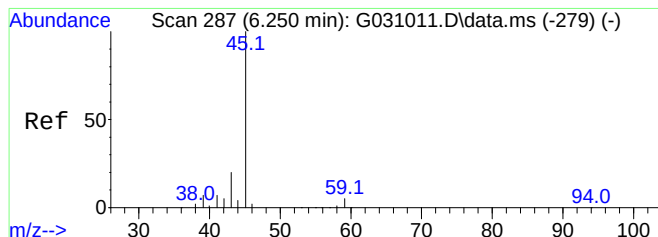
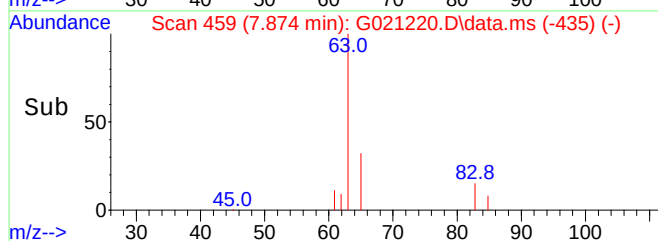
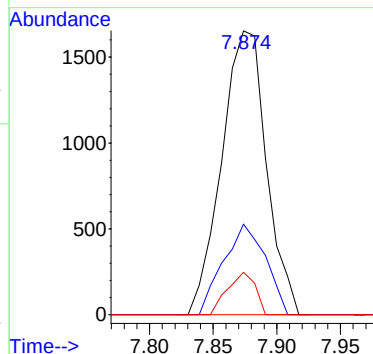
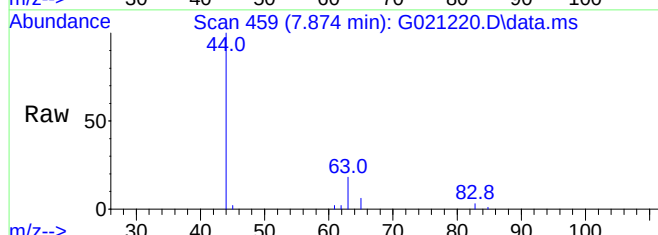
Tgt Ion: 76 Resp: 16430
Ion Ratio Lower Upper
76 100
78 8.8 0.0 30.7
44 24.4 0.0 33.4





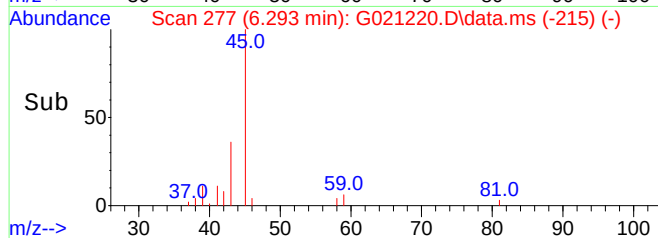
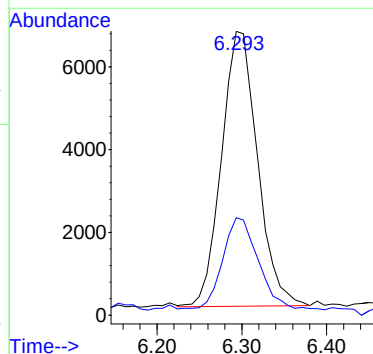
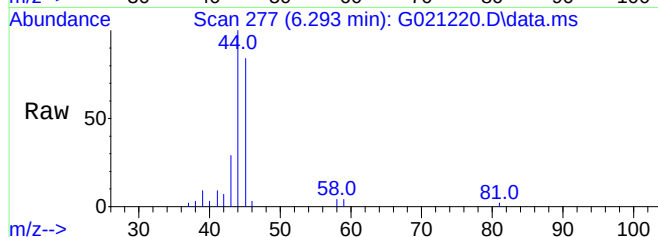
#19
1,1-DICHLOROETHANE
Concen: 0.07 PPBV
RT: 7.874 min Scan# 459
Delta R.T. 0.008 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

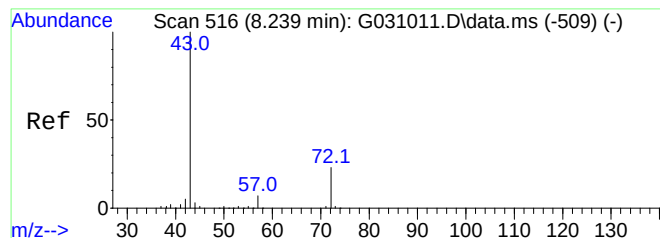
Tgt Ion: 63 Resp: 4046
Ion Ratio Lower Upper
63 100
65 30.0 11.8 51.8
83 9.3 0.0 31.5



#21
IPA
Concen: 0.62 PPBV
RT: 6.293 min Scan# 277
Delta R.T. 0.043 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

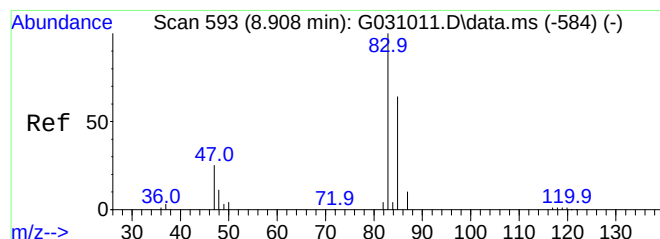
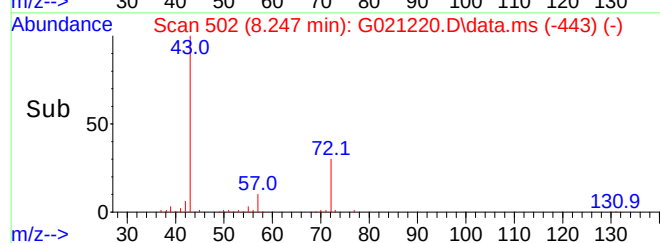
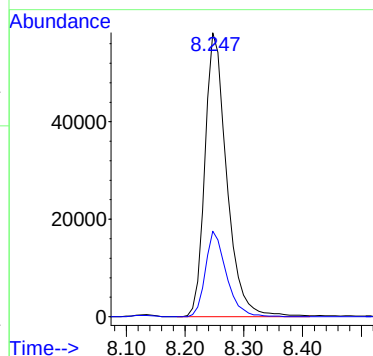
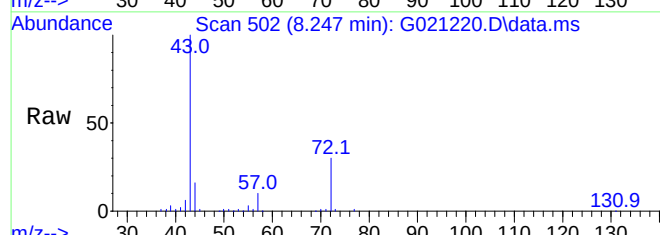
Tgt Ion: 45 Resp: 19577
Ion Ratio Lower Upper
45 100
43 34.3 0.6 40.6





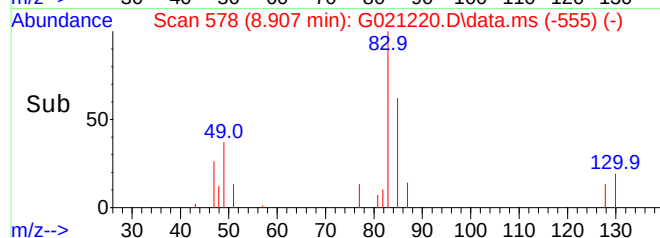
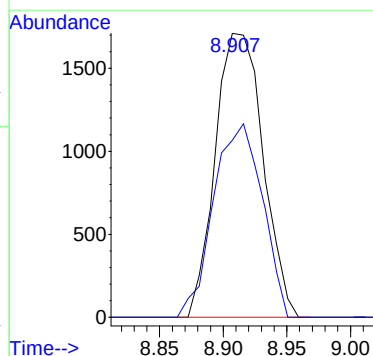
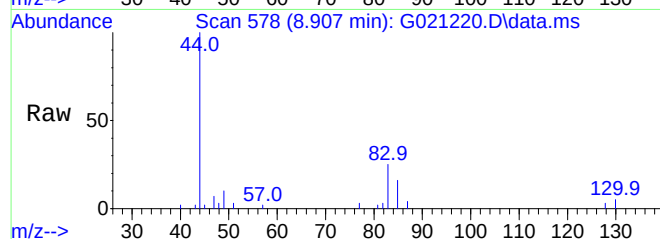
#22
2-BUTANONE (MEK)
Concen: 2.48 PPBV
RT: 8.247 min Scan# 502
Delta R.T. 0.008 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

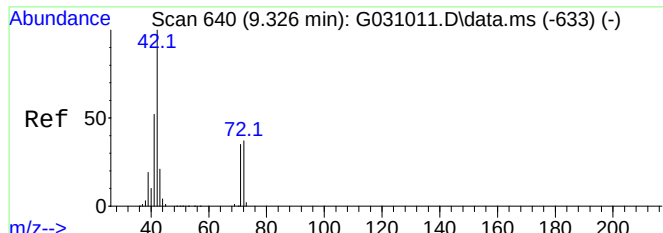
Tgt Ion: 43 Resp: 150730
Ion Ratio Lower Upper
43 100
72 28.8 2.6 42.6



#27
CHLOROFORM
Concen: 0.07 PPBV
RT: 8.907 min Scan# 578
Delta R.T. -0.001 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

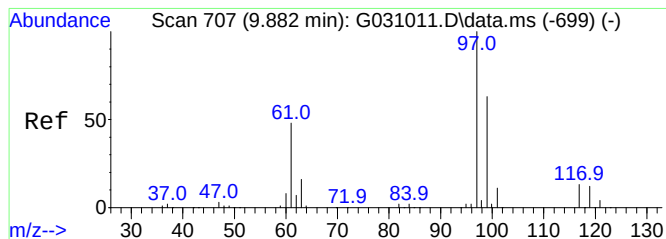
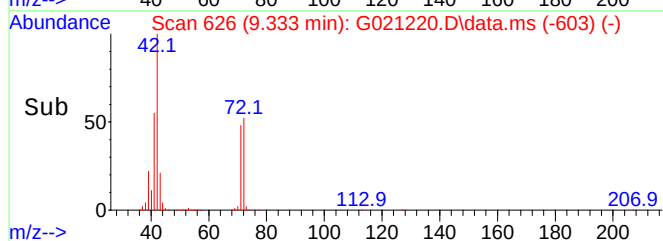
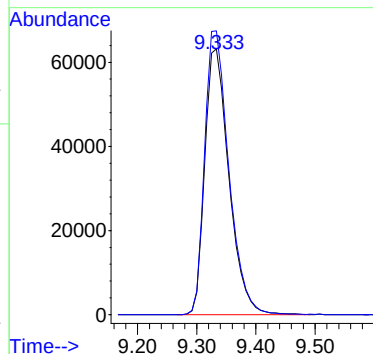
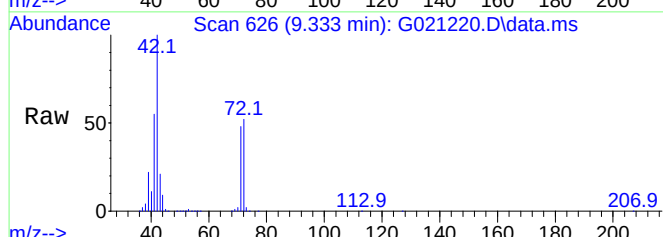
Tgt Ion: 83 Resp: 4477
Ion Ratio Lower Upper
83 100
85 69.6 44.9 84.9





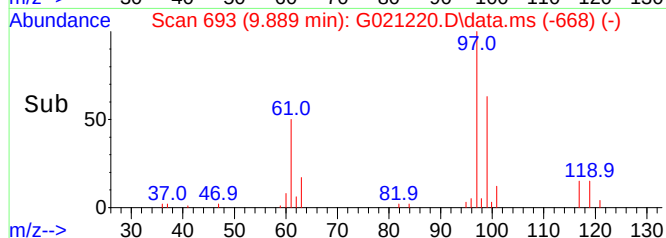
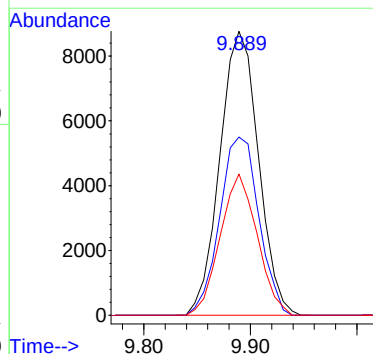
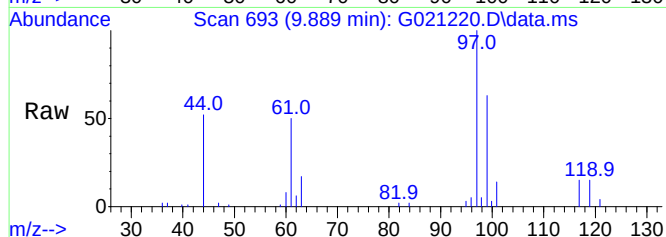
#28
TETRAHYDROFURAN
Concen: 12.92 PPBV
RT: 9.333 min Scan# 626
Delta R.T. 0.008 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

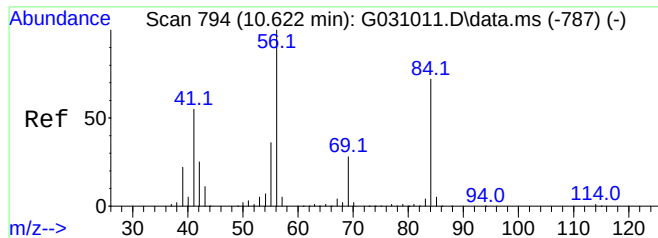
Tgt Ion: 71 Resp: 179696
Ion Ratio Lower Upper
71 100
72 106.7 86.9 126.9



#31
1,1,1-TRICHLOROETHANE
Concen: 0.35 PPBV
RT: 9.889 min Scan# 693
Delta R.T. 0.008 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

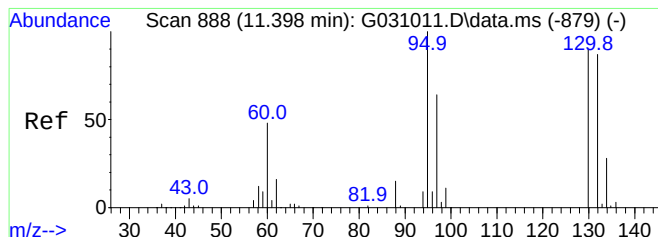
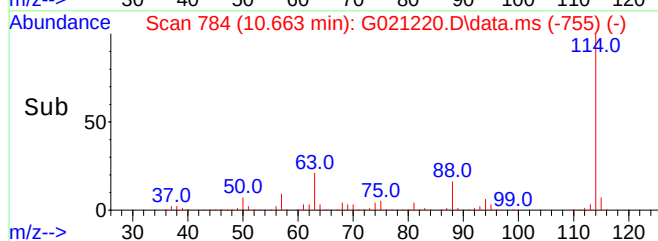
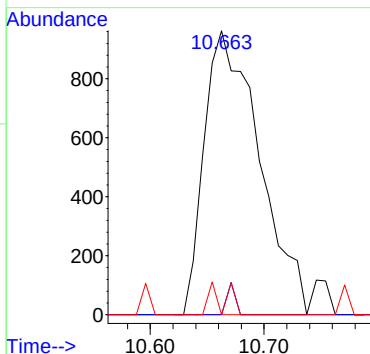
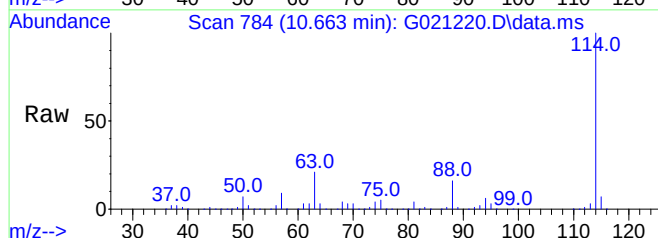
Tgt Ion: 97 Resp: 22091
Ion Ratio Lower Upper
97 100
99 63.9 43.7 83.7
61 47.7 28.6 68.6





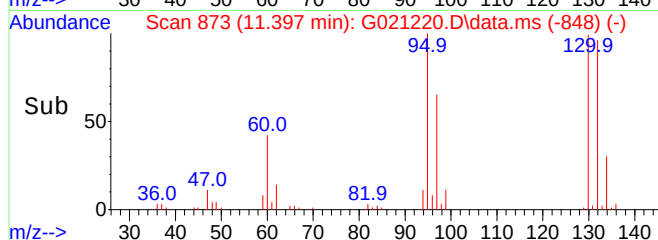
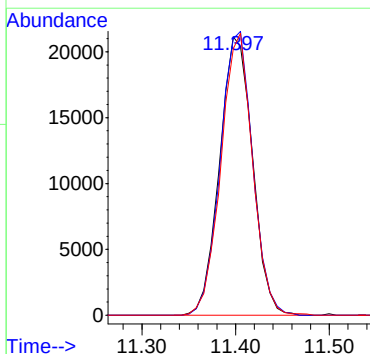
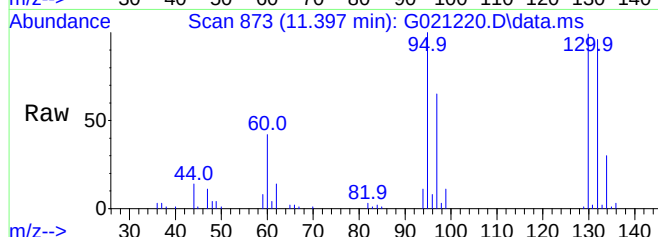
#34
CYCLOHEXANE
Concen: 0.07 PPBV
RT: 10.663 min Scan# 784
Delta R.T. 0.041 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

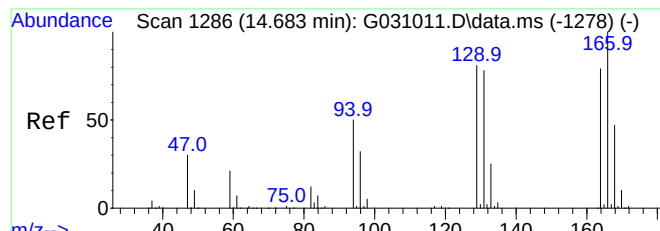
Tgt Ion: 84 Resp: 3245
Ion Ratio Lower Upper
84 100
42 0.0 13.2 53.2#
41 3.4 55.4 95.4#



#37
TRICHLOROETHENE
Concen: 1.07 PPBV
RT: 11.397 min Scan# 873
Delta R.T. -0.001 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

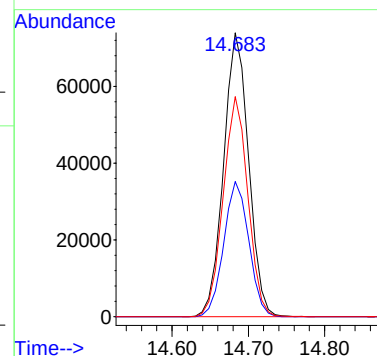
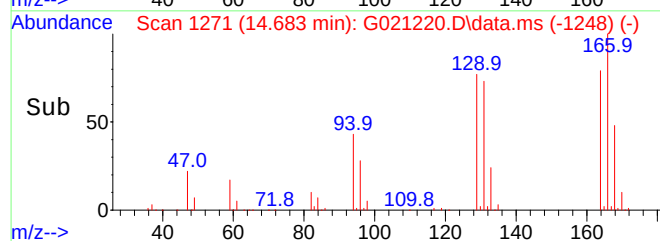
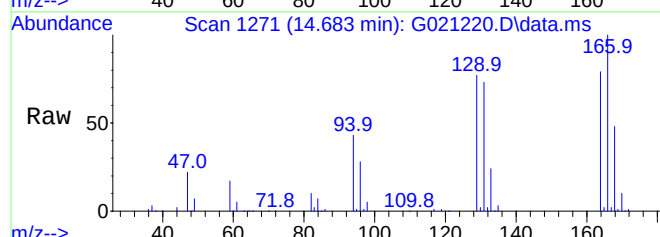
Tgt Ion: 95 Resp: 51636
Ion Ratio Lower Upper
95 100
130 100.2 71.2 111.2
132 97.2 66.9 106.9





#50
TETRACHLOROETHENE
Concen: 3.06 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.001 min
Lab File: G021220.D
Acq: 13 Feb 2012 2:15 pm

Tgt Ion:166 Resp: 168690
Ion Ratio Lower Upper
166 100
168 47.6 27.0 67.0
129 76.6 60.6 100.6



Data File : C:\msdchem\1\data\G021212\G021220.D
Acq On : 13 Feb 2012 2:15 pm
Sample : 12B0323-16 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:52 2012

Vial: 13
Operator: TPH
Inst : SYSG
Multiplr: 1.00

415

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	951059	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	169313	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	615920	9.61	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	120.13%

Target Compounds	Qvalue

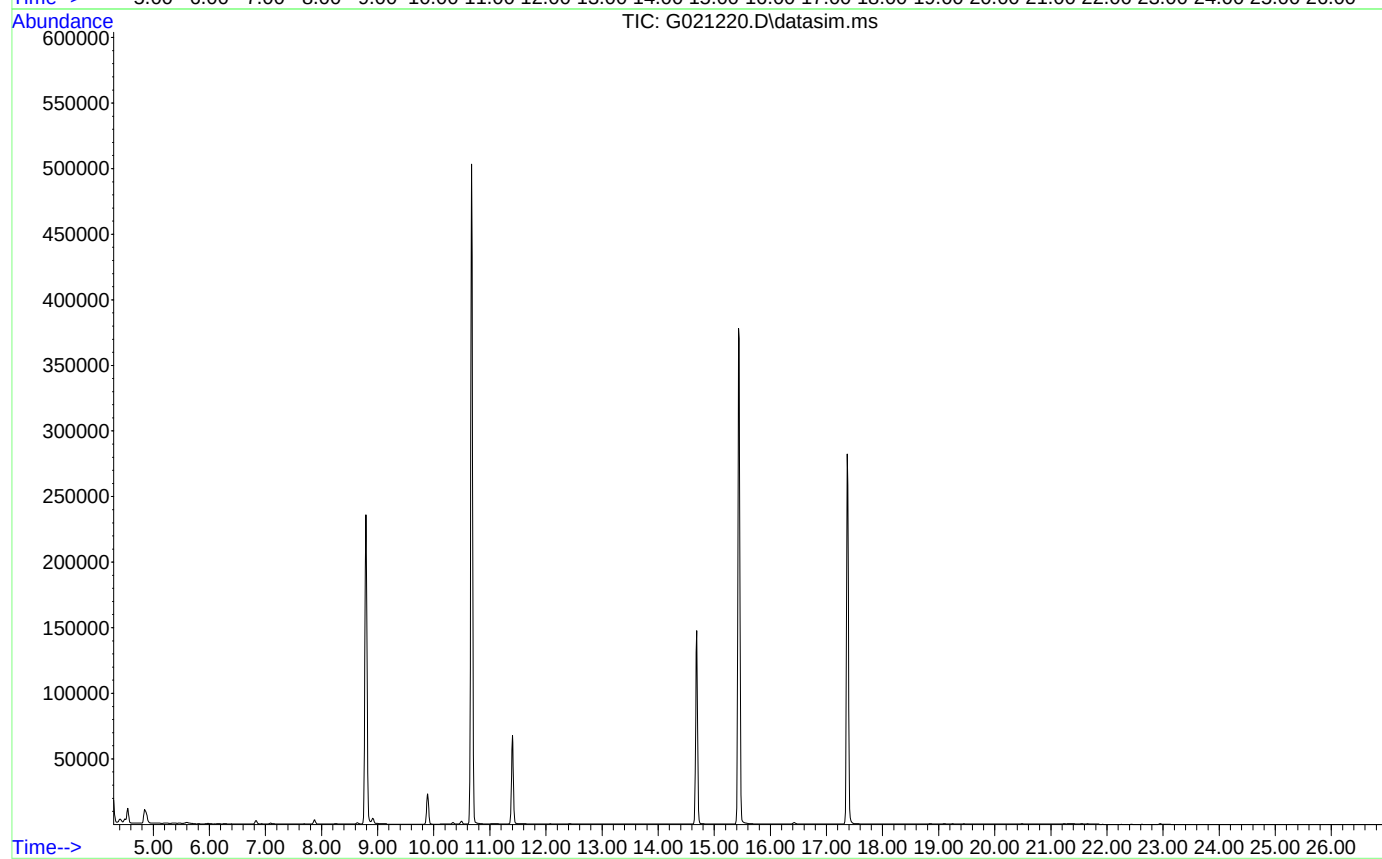
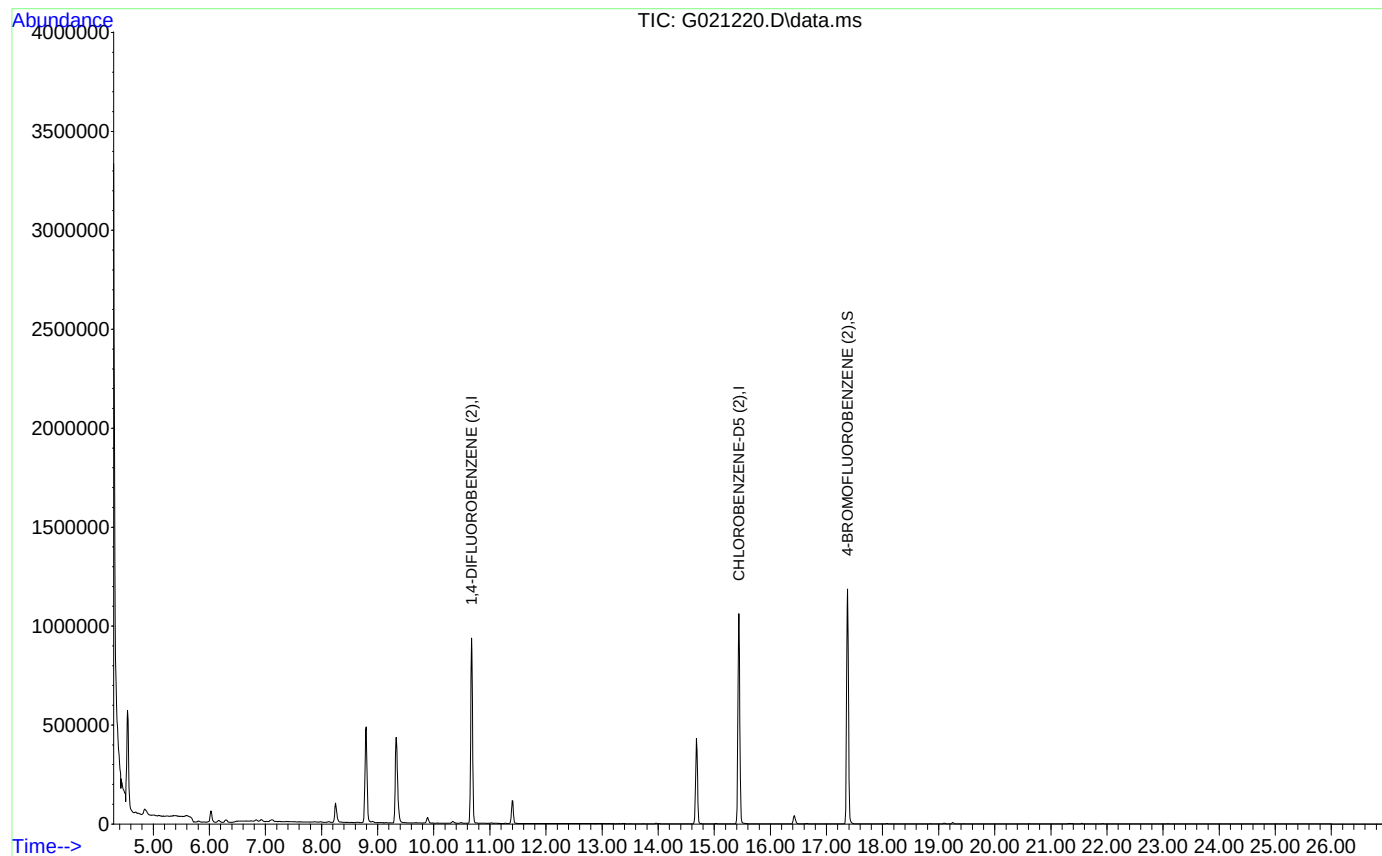
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021220.D
Acq On : 13 Feb 2012 2:15 pm
Sample : 12B0323-16 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:52 2012

Vial: 13
Operator: TPH
Inst : SYSG
Multiplr: 1.00

416

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-08

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-17 File ID: G021419.D
 Sampled: 02/08/12 17:35 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 00:36
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.23	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.073	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.73	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.56	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-08

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-17 File ID: G021419.D
 Sampled: 02/08/12 17:35 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 00:36
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	5.0	0.17	1.4	
100-41-4	Ethylbenzene	0.047	0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.41	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.10	0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene	0.038	0.011	0.035	
108-88-3	Toluene	0.39	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.26	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.088	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene	0.046	0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-08

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-17	File ID:	G021419.D		
Sampled:	02/08/12 17:35	Prepared:	02/14/12 10:43	Analyzed:	02/15/12 00:36		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene	0.18	0.018	0.070	
95-47-6	o-Xylene	0.055	0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021419.D
 Acq On : 15 Feb 2012 12:36 am
 Sample : 12B0323-17 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:59:05 2012

Vial: 11
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

420

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	330026	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	1109081	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	996000	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	575240	8.48	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	106.00%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	4.549	85	51903	0.802	PPBV	99
4) CHLOROMETHANE	4.703	50	19334	1.040	PPBV	99
10) ACROLEIN	5.903	56	2814	0.364	PPBV	92
11) ACETONE	6.042	43	120255	3.747	PPBV	95
12) TRICHLOROFLUOROMETHANE	6.172	101	18769	0.364	PPBV	99
13) ETHANOL	5.628	45	47847	7.084	PPBV	96
15) METHYLENE CHLORIDE	6.832	49	21037	0.585	PPBV	# 75
16) FREON 113	7.092	101	7290	0.125	PPBV	94
21) IPA	6.337	45	29293	0.867	PPBV	89
22) 2-BUTANONE(MEK)	8.291	43	19351	0.297	PPBV	86
25) HEXANE	8.855	41	9128	0.270	PPBV	89
32) BENZENE	10.347	78	44286	0.322	PPBV	96
33) CARBON TETRACHLORIDE	10.496	117	6811	0.104	PPBV	99
40) HEPTANE	11.728	57	2553	0.062	PPBV	96
41) MIBK	12.435	43	15132	0.146	PPBV	90
46) TOLUENE	13.388	91	83376	0.556	PPBV	99
50) TETRACHLOROETHENE	14.692	166	3469	0.054	PPBV	93
52) ETHYLBENZENE	15.969	91	12728	0.067	PPBV	97
53) M/P-XYLENE	16.186	91	38069	0.254	PPBV	97
56) O-XYLENE	16.786	91	11586	0.078	PPBV	97
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	10568	0.065	PPBV	96

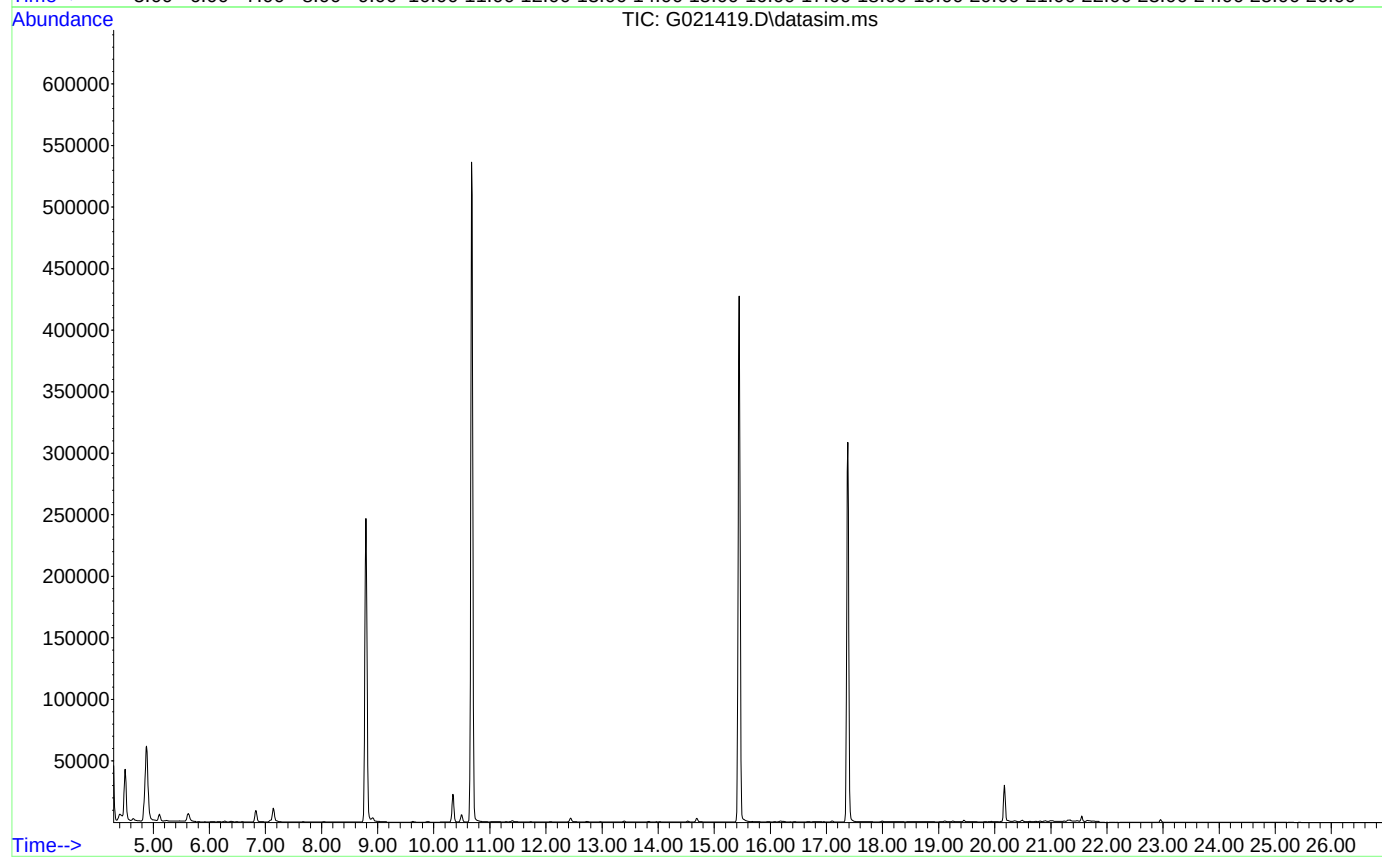
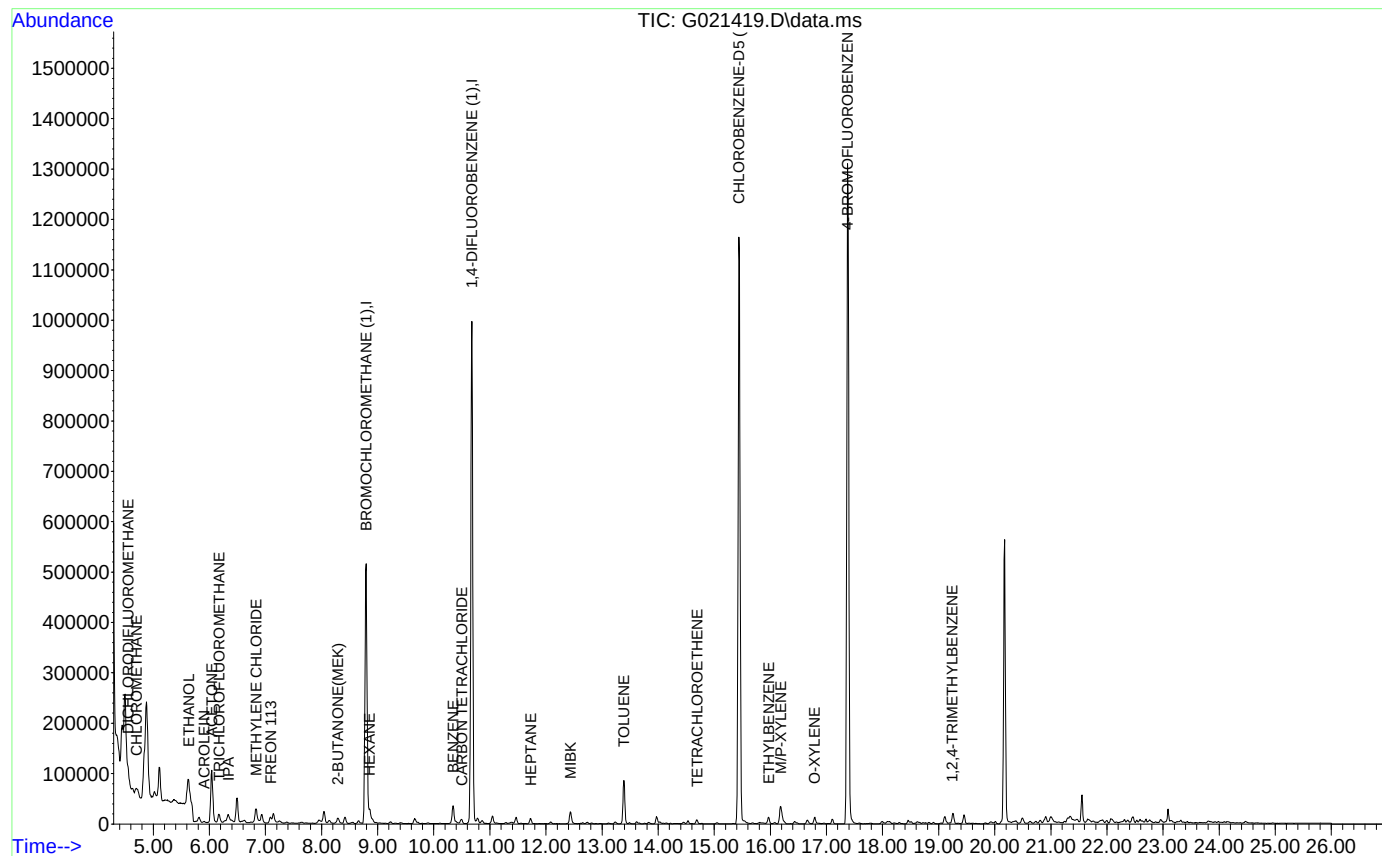
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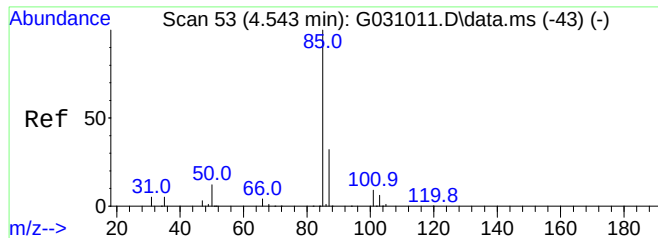
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Acq On : 15 Feb 2012 12:36 am
Sample : 12B0323-17 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:59:05 2012

Vial: 11
Operator: WSD
Inst : SYSG
Multiplr: 1.00

421

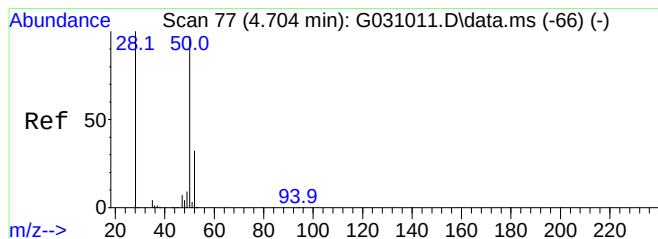
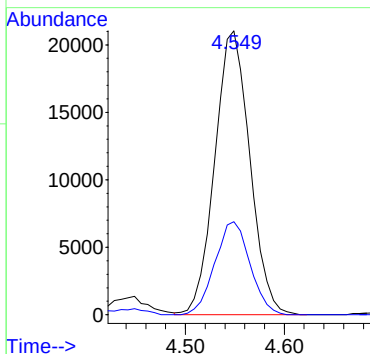
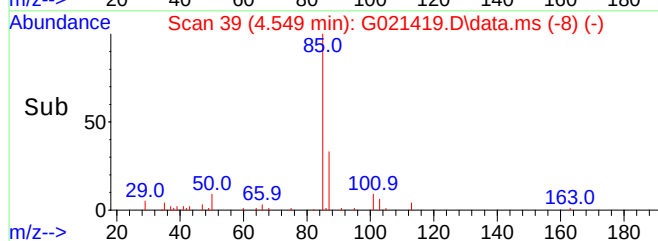
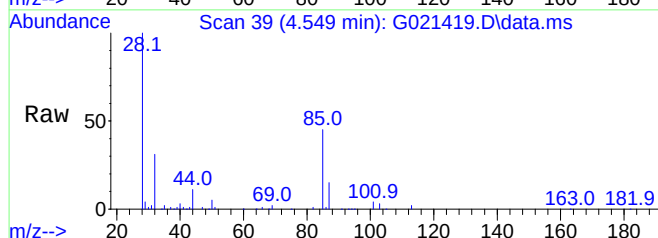
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





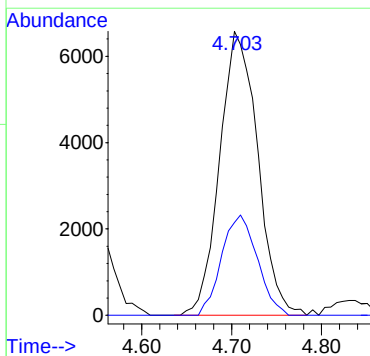
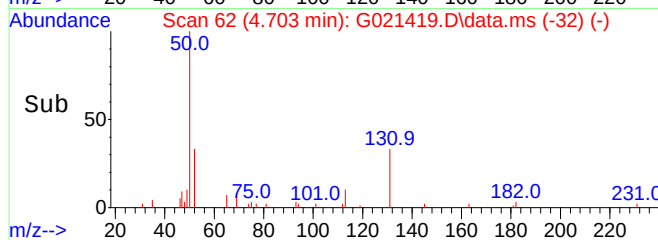
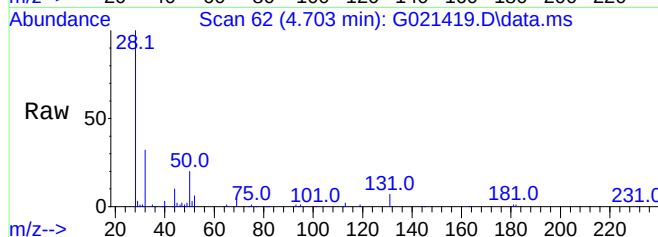
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 DICHLORODIFLUOROMETHANE
 Concen: 0.80 PPBV
 RT: 4.549 min Scan# 39
 Delta R.T. 0.006 min
 Lab File: G021419.D
 Acq: 15 Feb 2012 12:36 am

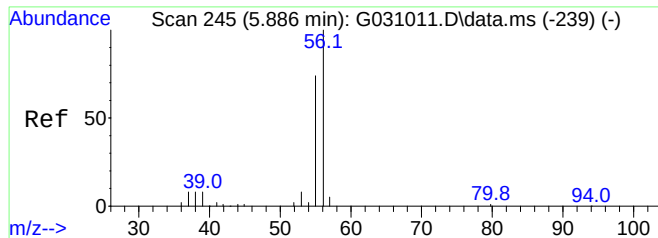
Tgt Ion: 85 Resp: 51903
 Ion Ratio Lower Upper
 85 100
 87 32.8 12.1 52.1



#4
 CHLOROMETHANE
 Concen: 1.04 PPBV
 RT: 4.703 min Scan# 62
 Delta R.T. -0.000 min
 Lab File: G021419.D
 Acq: 15 Feb 2012 12:36 am

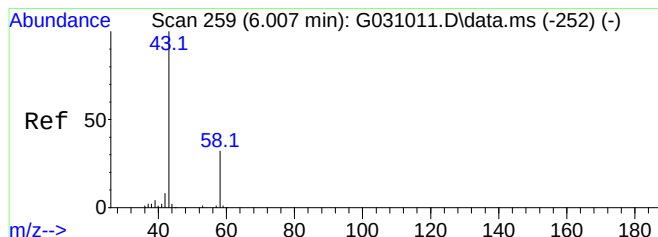
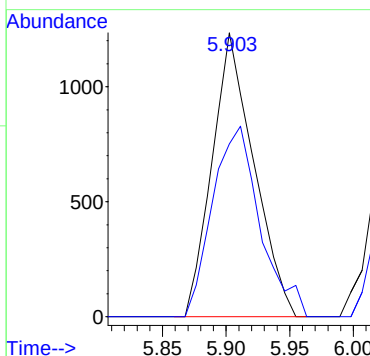
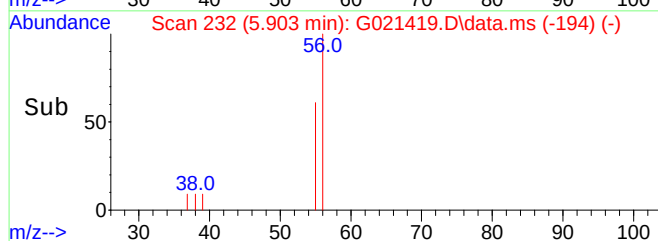
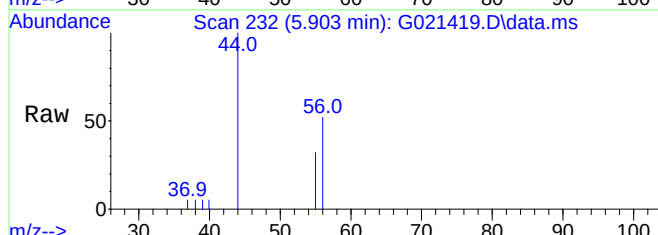
Tgt Ion: 50 Resp: 19334
 Ion Ratio Lower Upper
 50 100
 52 33.2 12.8 52.8





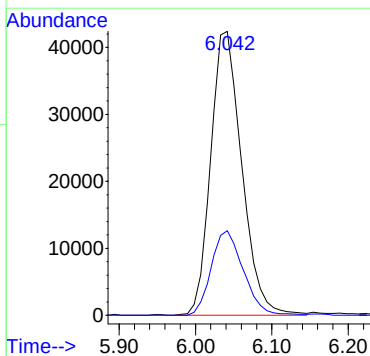
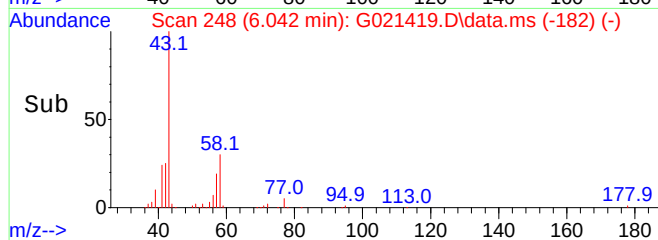
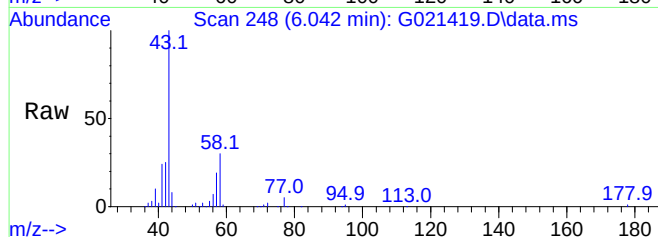
#10
ACROLEIN
Concen: 0.36 PPBV
RT: 5.903 min Scan# 232
Delta R.T. 0.018 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

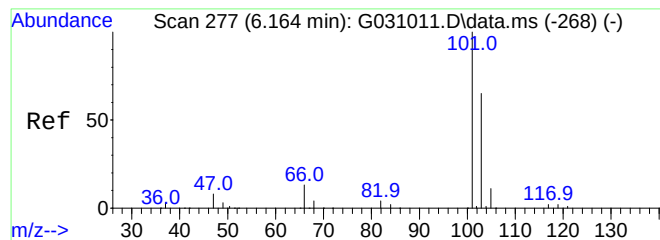
Tgt Ion: 56 Resp: 2814
Ion Ratio Lower Upper
56 100
55 76.4 56.1 84.1



#11
ACETONE
Concen: 3.75 PPBV
RT: 6.042 min Scan# 248
Delta R.T. 0.035 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

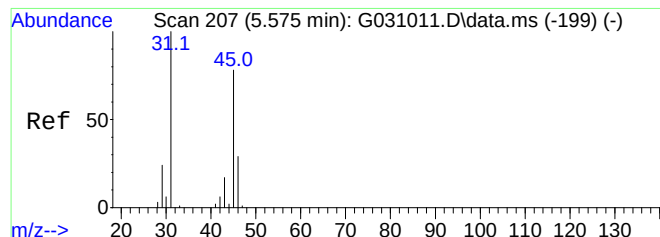
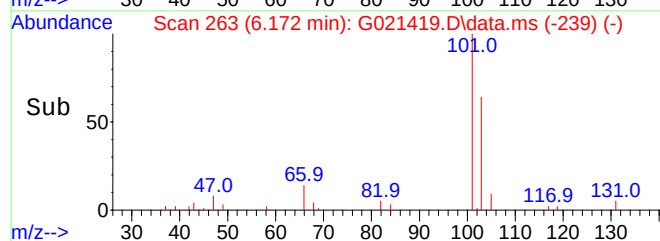
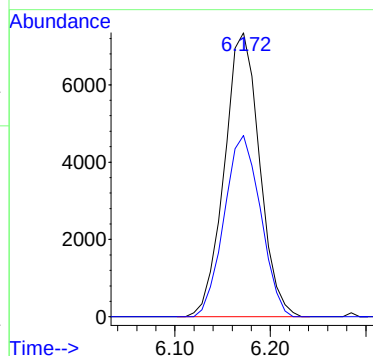
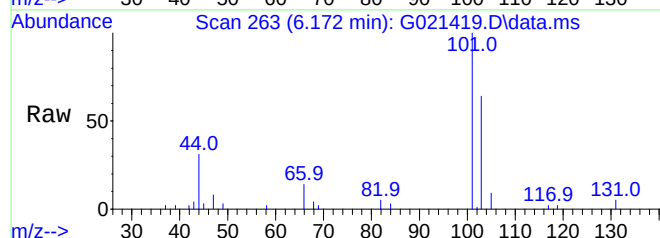
Tgt Ion: 43 Resp: 120255
Ion Ratio Lower Upper
43 100
58 30.8 13.9 53.9





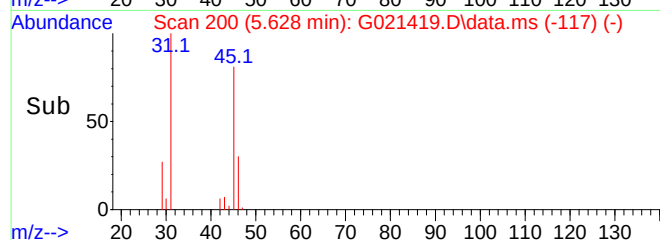
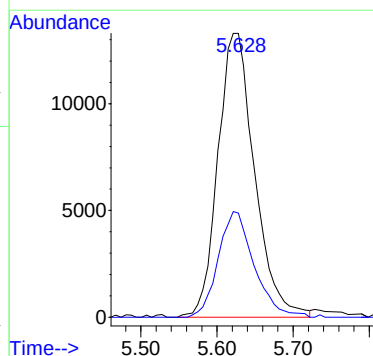
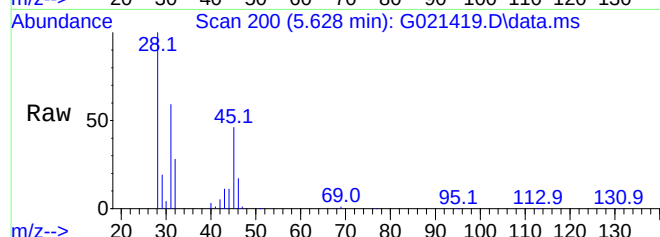
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.36 PPBV
 RT: 6.172 min Scan# 263
 Delta R.T. 0.008 min
 Lab File: G021419.D
 Acq: 15 Feb 2012 12:36 am

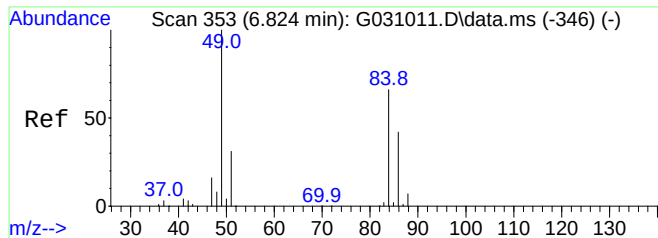
Tgt Ion: 101 Resp: 18769
 Ion Ratio Lower Upper
 101 100
 103 65.9 44.8 84.8



#13
 ETHANOL
 Concen: 7.08 PPBV
 RT: 5.628 min Scan# 200
 Delta R.T. 0.054 min
 Lab File: G021419.D
 Acq: 15 Feb 2012 12:36 am

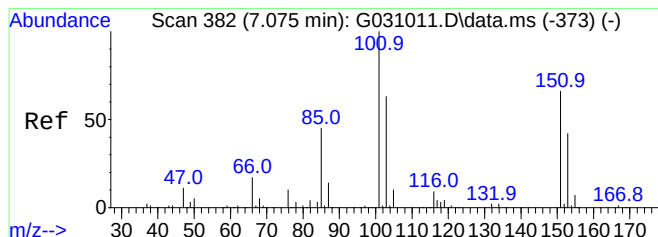
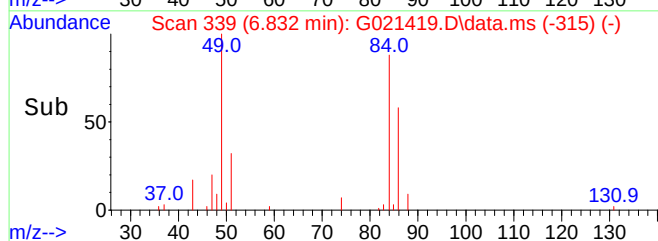
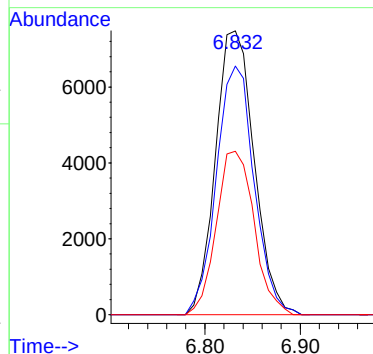
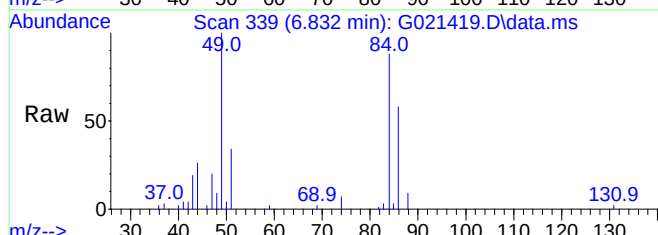
Tgt Ion: 45 Resp: 47847
 Ion Ratio Lower Upper
 45 100
 46 36.3 14.0 54.0





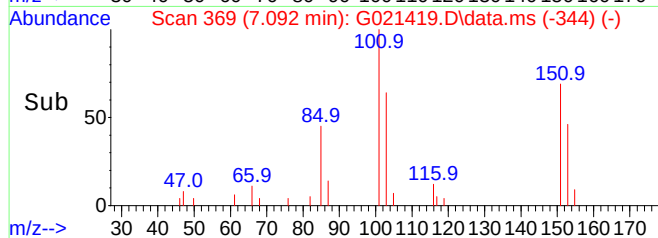
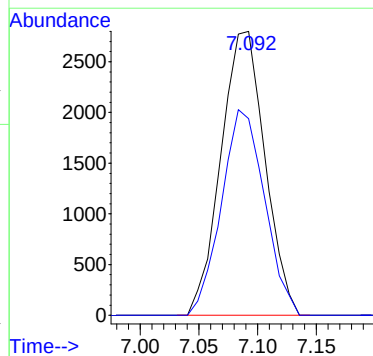
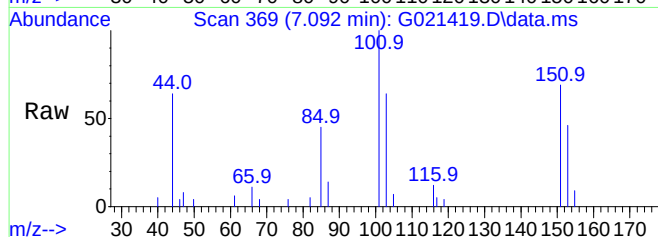
#15
METHYLENE CHLORIDE
Concen: 0.59 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

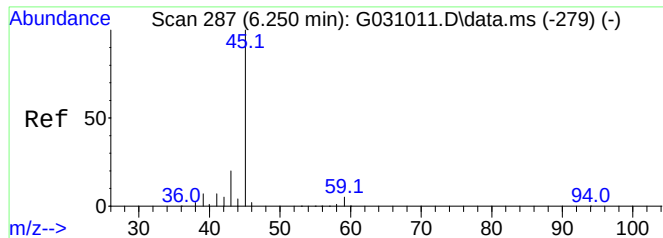
Tgt Ion: 49 Resp: 21037
Ion Ratio Lower Upper
49 100
84 85.7 45.2 85.2#
86 56.2 21.4 61.4



#16
FREON 113
Concen: 0.12 PPBV
RT: 7.092 min Scan# 369
Delta R.T. 0.017 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

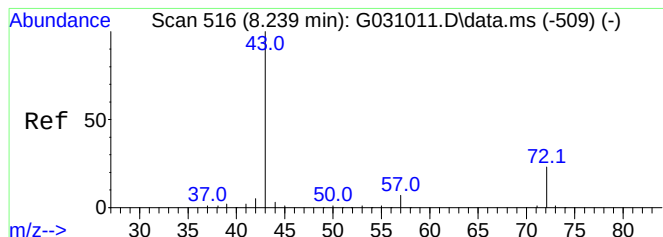
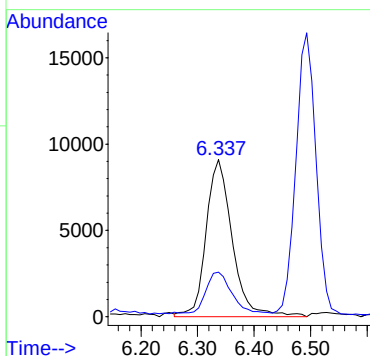
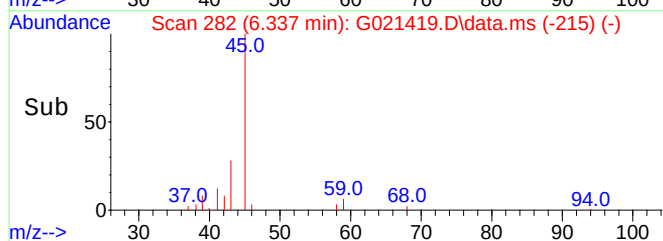
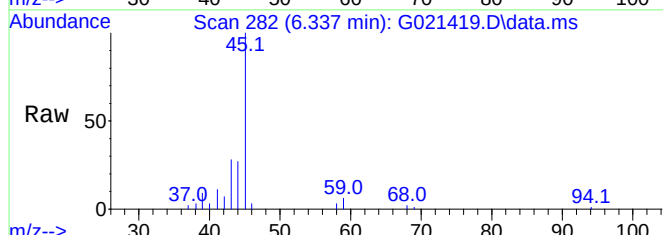
Tgt Ion: 101 Resp: 7290
Ion Ratio Lower Upper
101 100
151 71.0 46.3 86.3





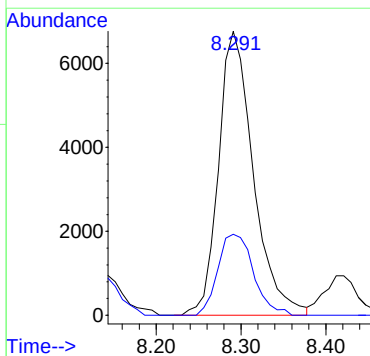
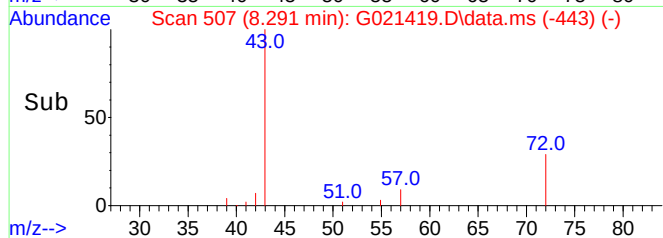
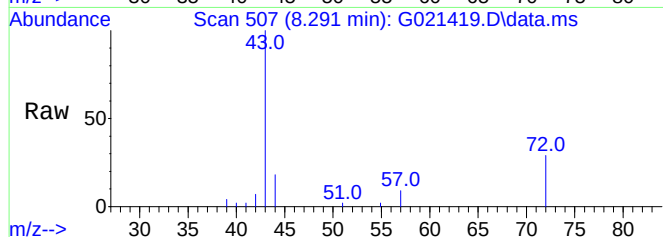
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IPA
Concen: 0.87 PPBV
RT: 6.337 min Scan# 282
Delta R.T. 0.087 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

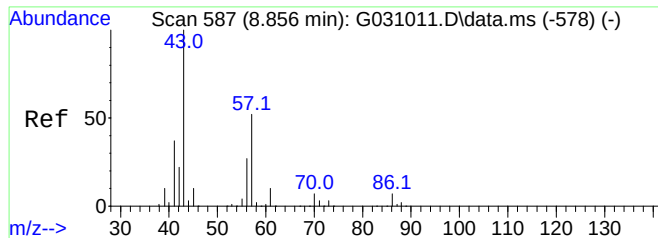
Tgt Ion: 45 Resp: 29293
Ion Ratio Lower Upper
45 100
43 25.8 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.30 PPBV
RT: 8.291 min Scan# 507
Delta R.T. 0.052 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

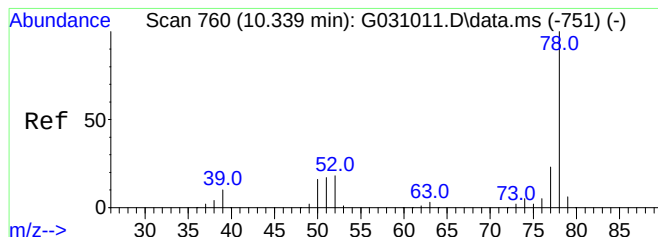
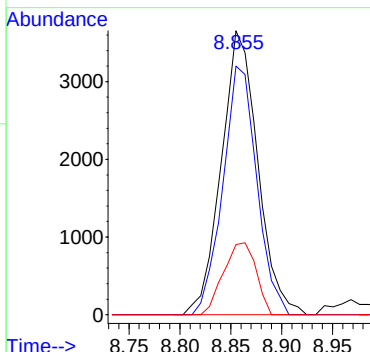
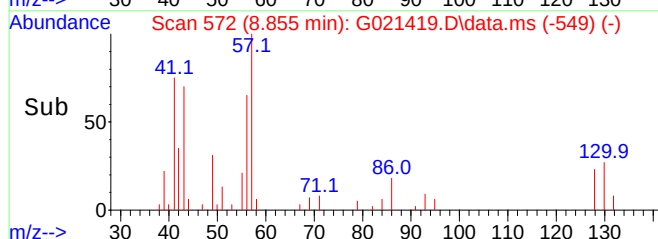
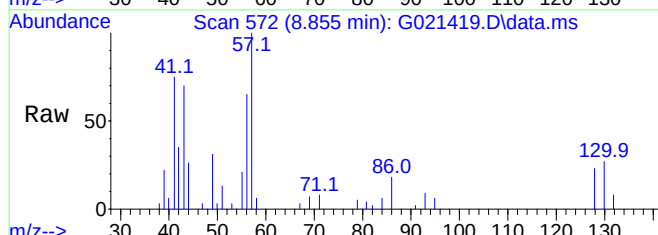
Tgt Ion: 43 Resp: 19351
Ion Ratio Lower Upper
43 100
72 29.2 2.6 42.6





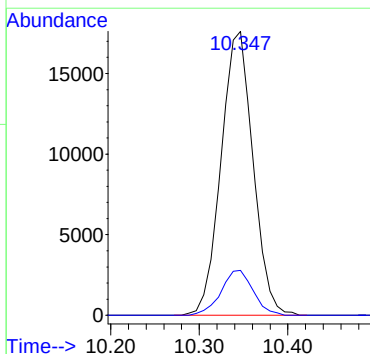
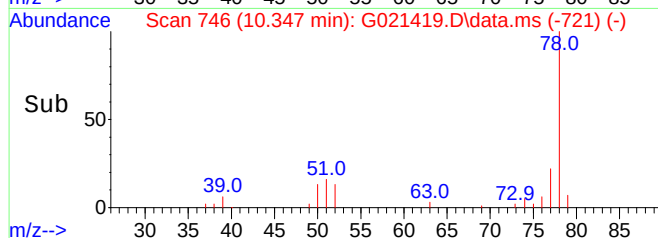
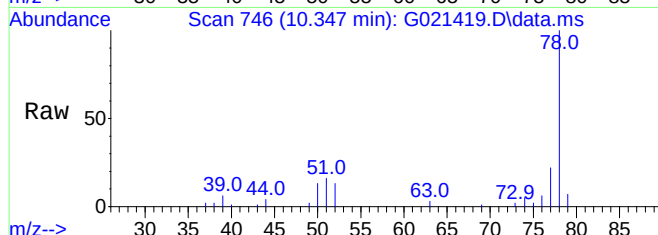
#25
HEXANE
Concen: 0.27 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.000 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

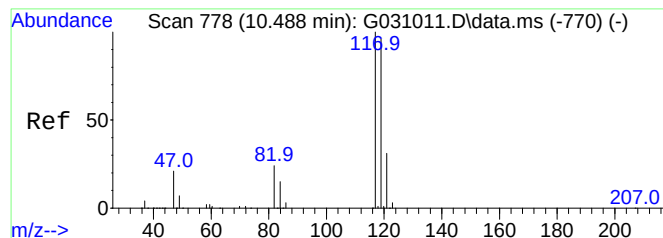
Tgt Ion: 41 Resp: 9128
Ion Ratio Lower Upper
41 100
56 81.3 50.8 90.8
86 22.6 9.6 29.6



#32
BENZENE
Concen: 0.32 PPBV
RT: 10.347 min Scan# 746
Delta R.T. 0.008 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

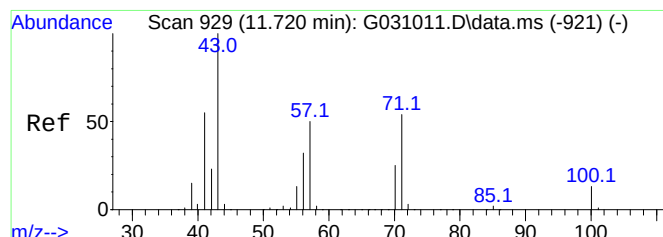
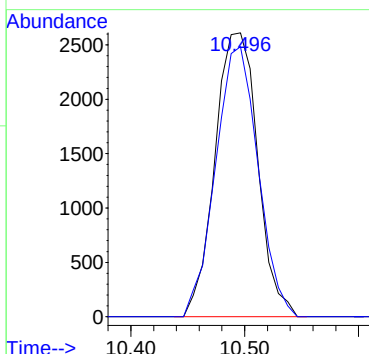
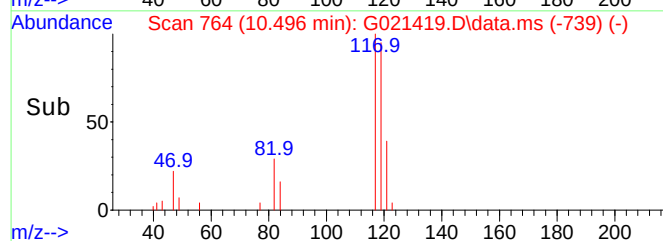
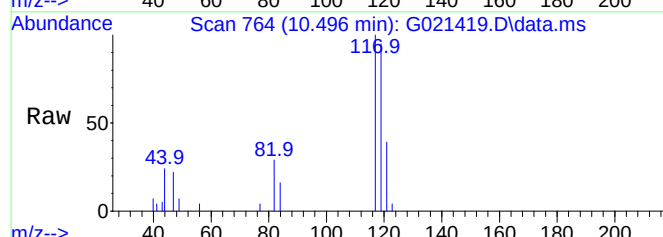
Tgt Ion: 78 Resp: 44286
Ion Ratio Lower Upper
78 100
51 15.9 0.0 37.6





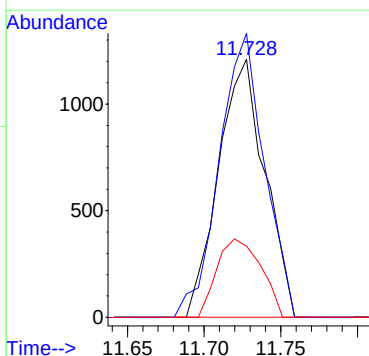
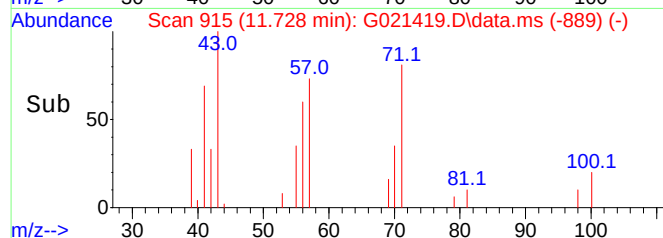
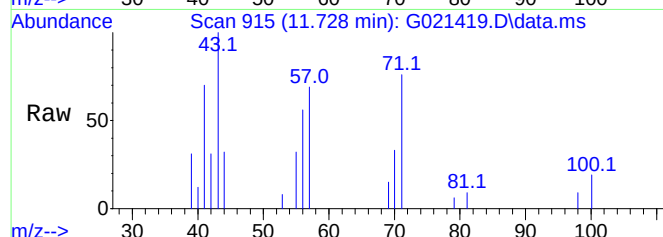
#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.496 min Scan# 764
Delta R.T. 0.008 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

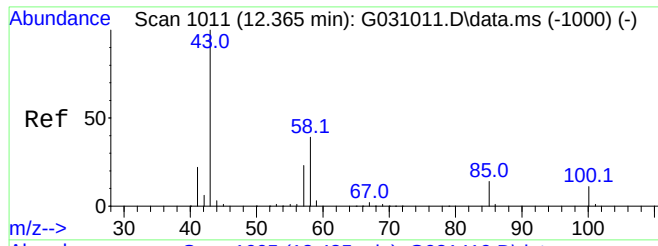
Tgt Ion: 117 Resp: 6811
Ion Ratio Lower Upper
117 100
119 94.6 75.4 115.4



#40
HEPTANE
Concen: 0.06 PPBV
RT: 11.728 min Scan# 915
Delta R.T. 0.007 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

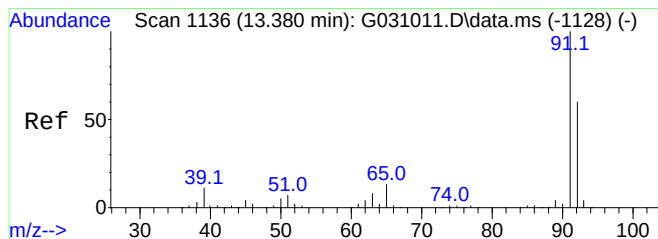
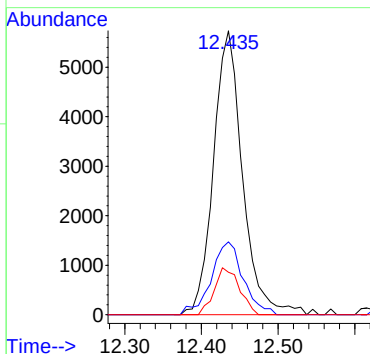
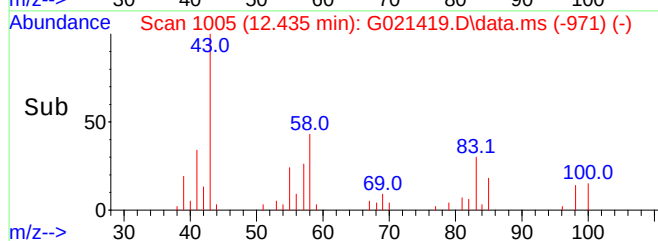
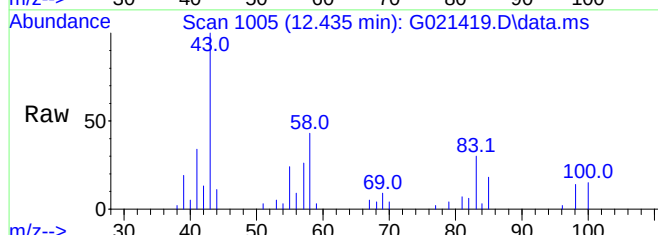
Tgt Ion: 57 Resp: 2553
Ion Ratio Lower Upper
57 100
71 106.7 83.8 123.8
100 28.8 5.4 45.4





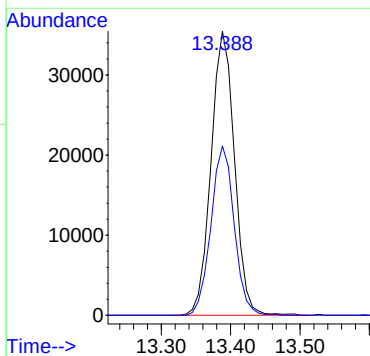
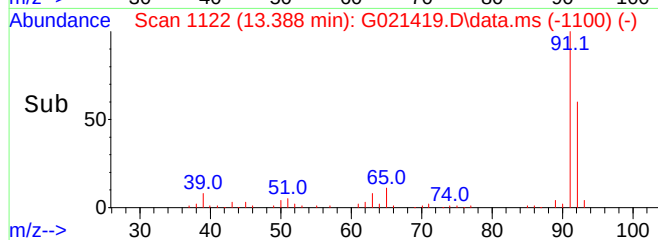
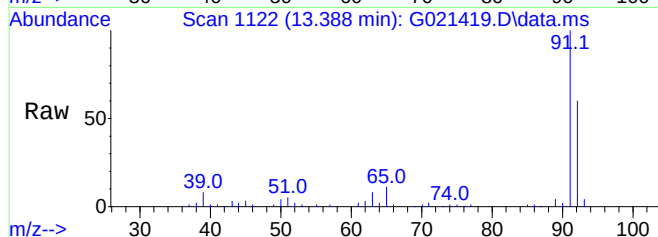
#41
MIBK
Concen: 0.15 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.070 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

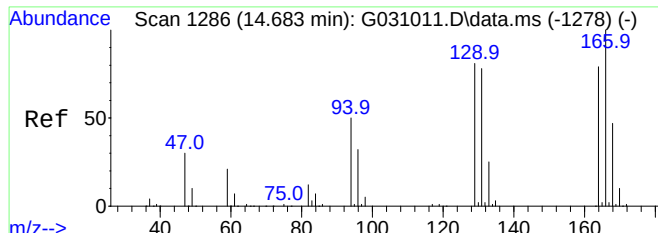
Tgt Ion: 43 Resp: 15132
Ion Ratio Lower Upper
43 100
57 28.1 2.8 42.8
100 14.3 1.0 21.0



#46
TOLUENE
Concen: 0.56 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

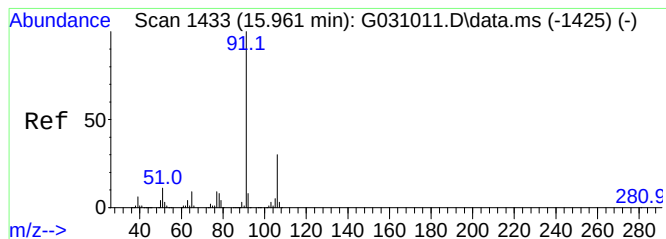
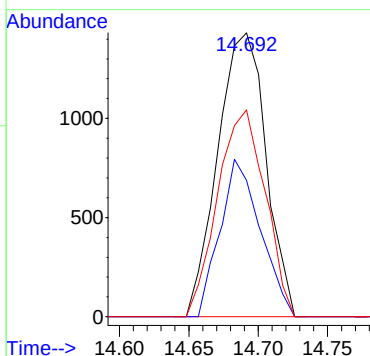
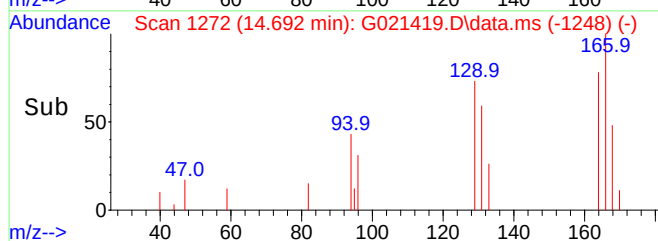
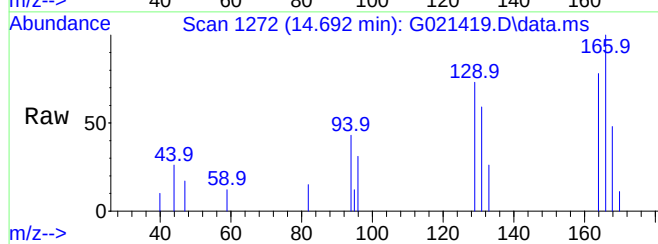
Tgt Ion: 91 Resp: 83376
Ion Ratio Lower Upper
91 100
92 59.0 39.7 79.7





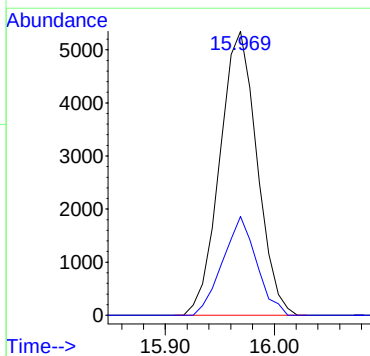
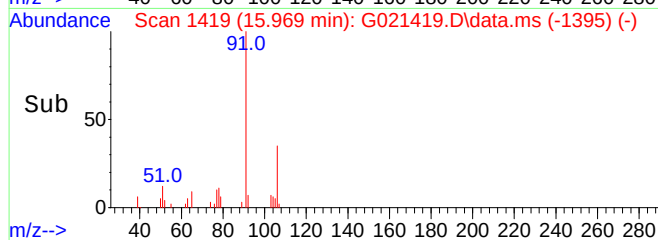
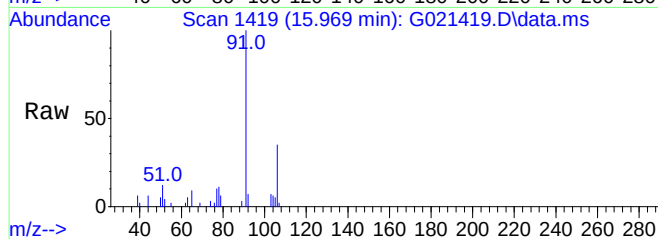
#50
TETRACHLOROETHENE
Concen: 0.05 PPBV
RT: 14.692 min Scan# 1272
Delta R.T. 0.008 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

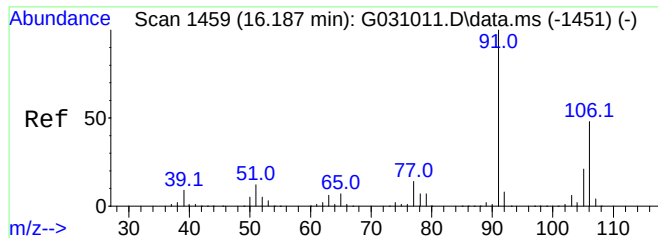
Tgt Ion: 166 Resp: 3469
Ion Ratio Lower Upper
166 100
168 46.4 27.0 67.0
129 71.8 60.6 100.6



#52
ETHYLBENZENE
Concen: 0.07 PPBV
RT: 15.969 min Scan# 1419
Delta R.T. 0.008 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

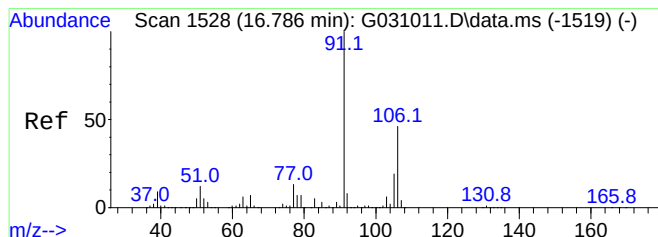
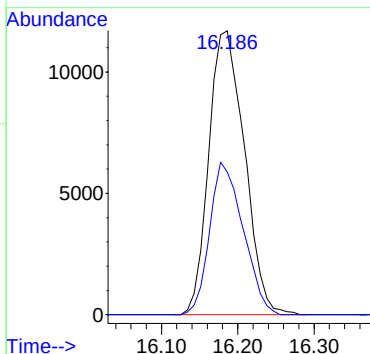
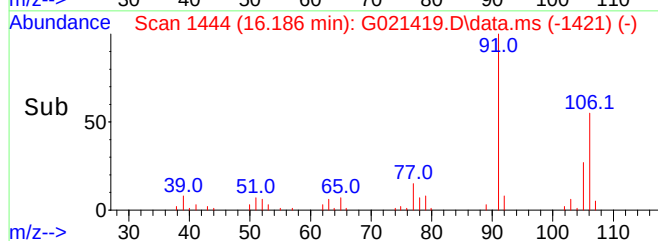
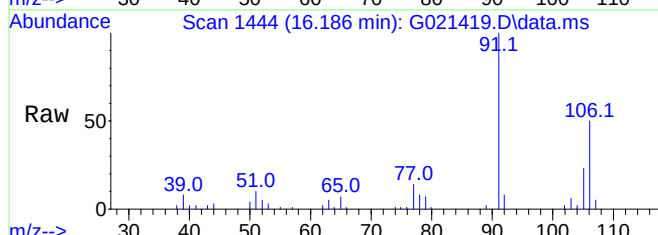
Tgt Ion: 91 Resp: 12728
Ion Ratio Lower Upper
91 100
106 31.6 10.0 50.0





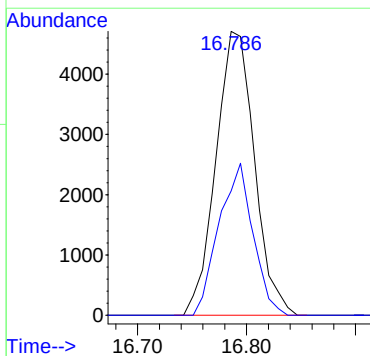
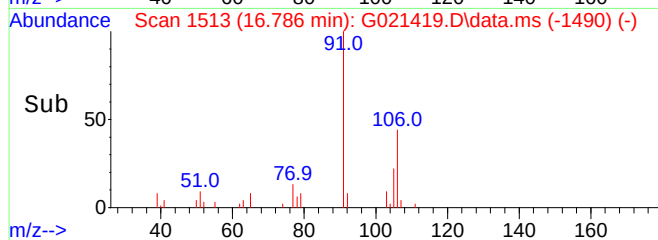
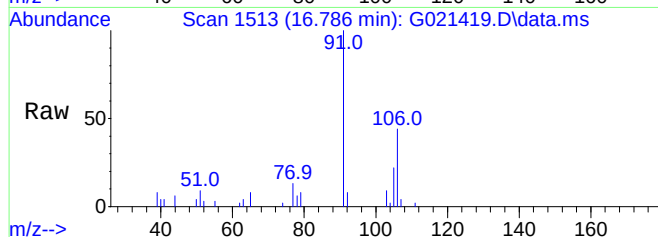
#53
M/P-XYLENE
Concen: 0.25 PPBV
RT: 16.186 min Scan# 1444
Delta R.T. -0.000 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

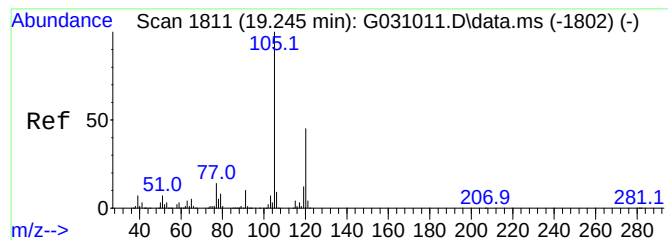
Tgt Ion: 91 Resp: 38069
Ion Ratio Lower Upper
91 100
106 50.4 28.3 68.3



#56
O-XYLENE
Concen: 0.08 PPBV
RT: 16.786 min Scan# 1513
Delta R.T. -0.000 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

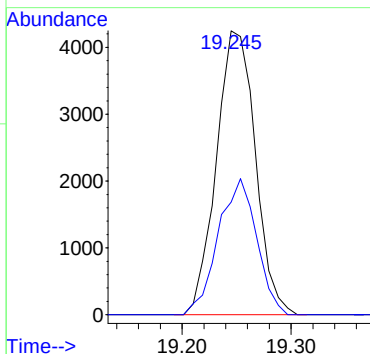
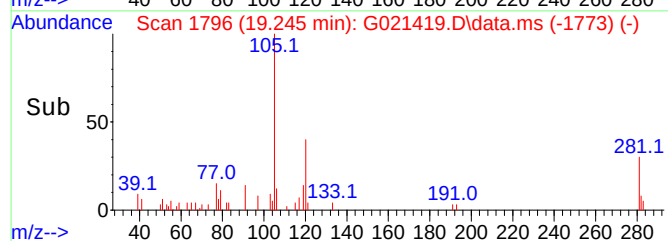
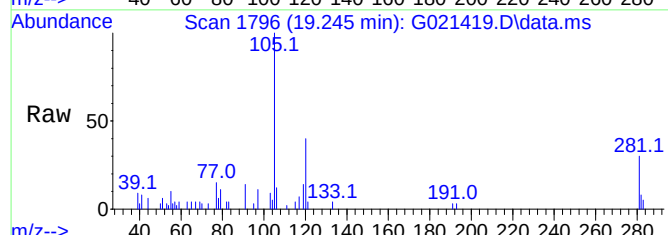
Tgt Ion: 91 Resp: 11586
Ion Ratio Lower Upper
91 100
106 47.3 25.5 65.5





#61
1,2,4-TRIMETHYLBENZENE
Concen: 0.07 PPBV
RT: 19.245 min Scan# 1796
Delta R.T. -0.000 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

Tgt Ion:105 Resp: 10568
Ion Ratio Lower Upper
105 100
120 47.2 24.8 64.8



Data File : C:\msdchem\1\data\G021412\G021419.D
 Acq On : 15 Feb 2012 12:36 am
 Sample : 12B0323-17 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:10:25 2012

Vial: 11
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

433

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	1108438	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.439	54	185749	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	715506	10.18	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	127.25%
Target Compounds						
3) METHYL ACETATE	6.823	43	4376	0.072	PPBV	97
5) 2,2,4-TRIMETHYLPENTANE	11.468	57	11850	0.075	PPBV	88
6) METHYLCYCLOHEXANE	12.443	83	4734	0.072	PPBV	91

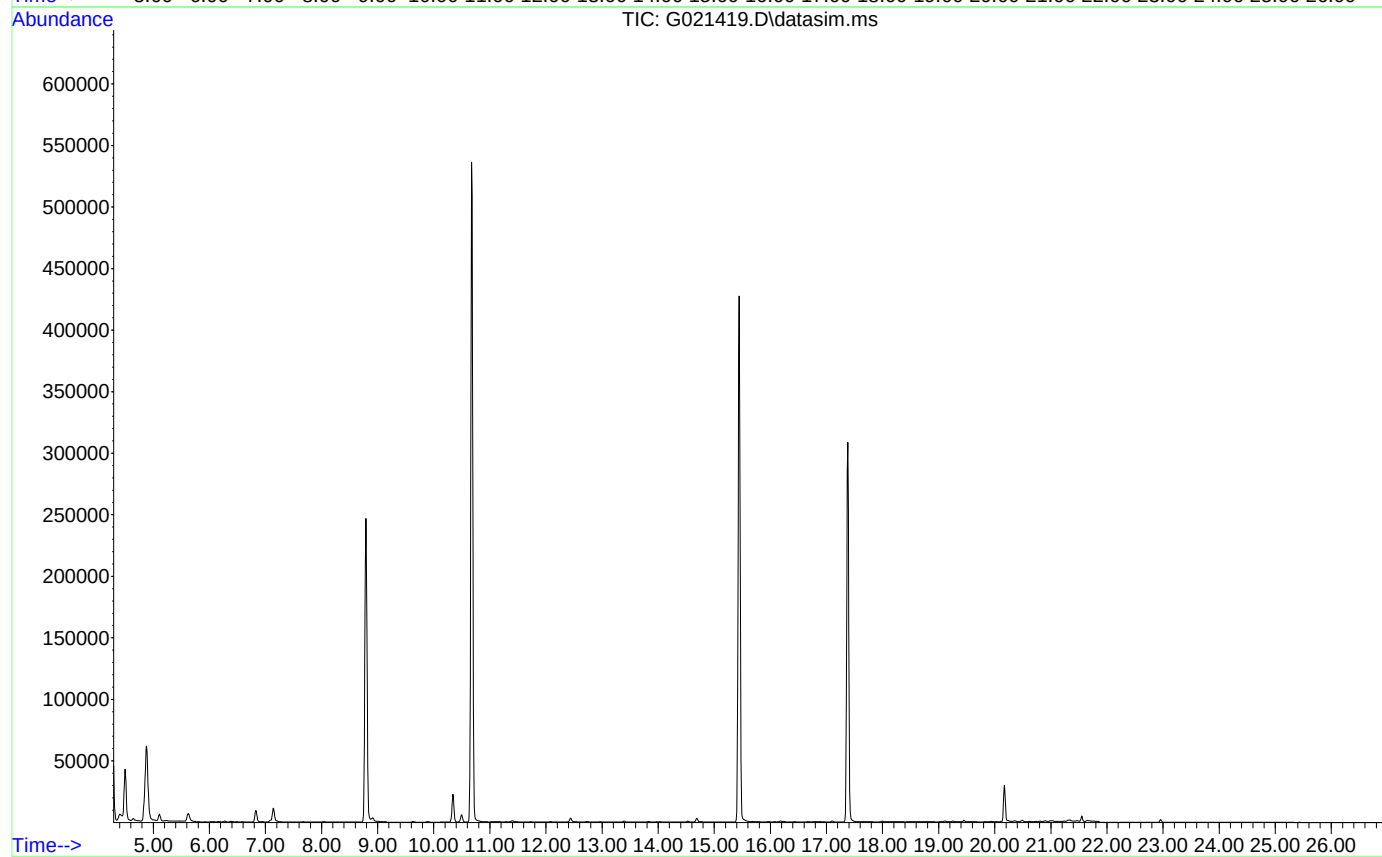
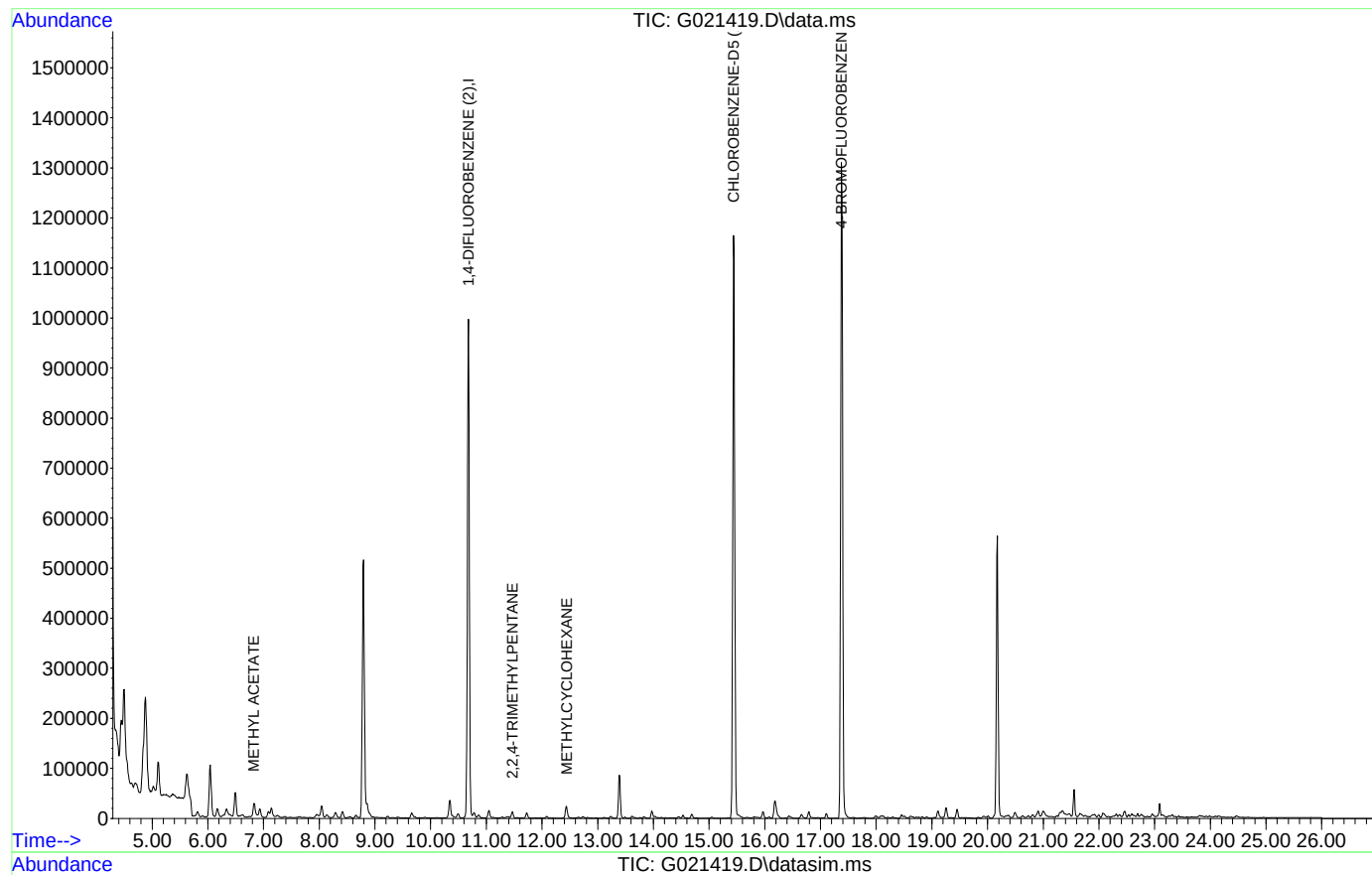
(#) = qualifier out of range (m) = manual integration (+) = signals summed

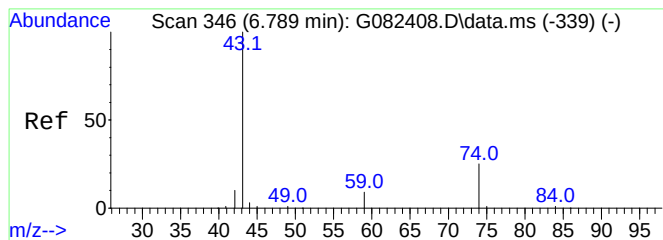
Data File : C:\msdchem\1\data\G021412\G021419.D
Acq On : 15 Feb 2012 12:36 am
Sample : 12B0323-17 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:10:25 2012

Vial: 11
Operator: WSD
Inst : SYSG
Multiplr: 1.00

434

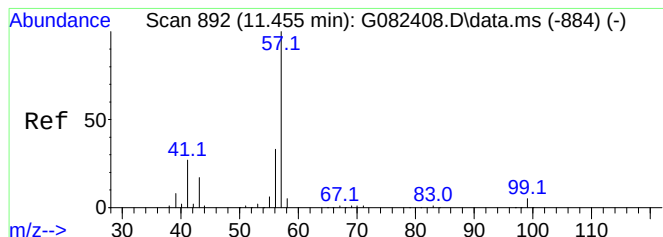
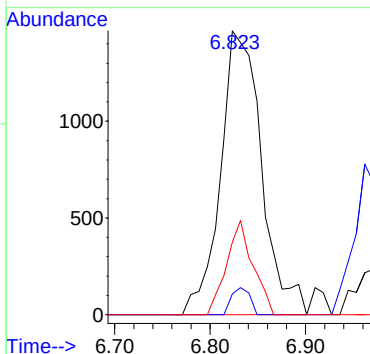
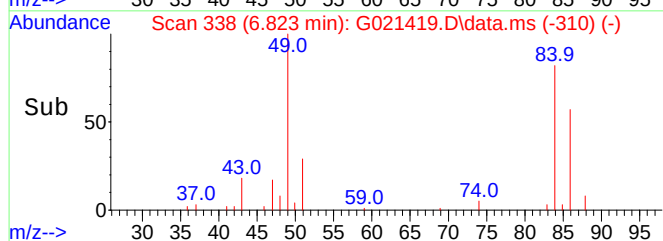
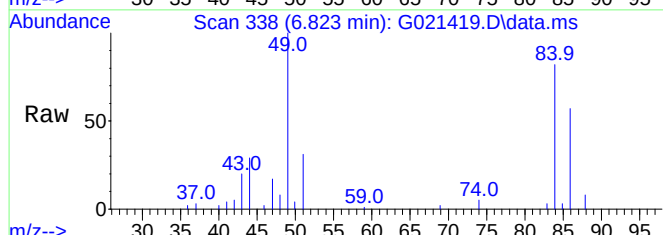
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





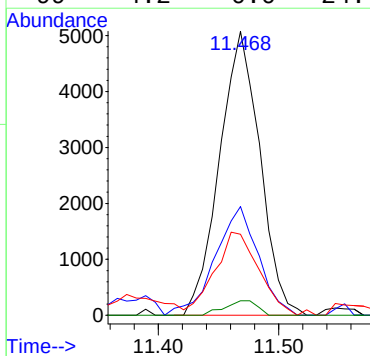
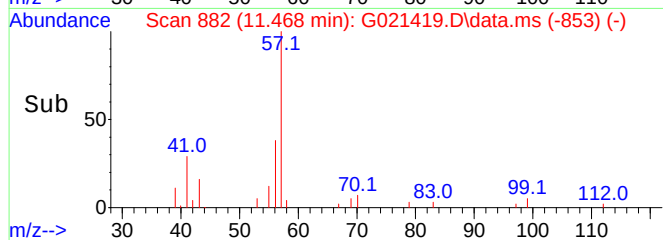
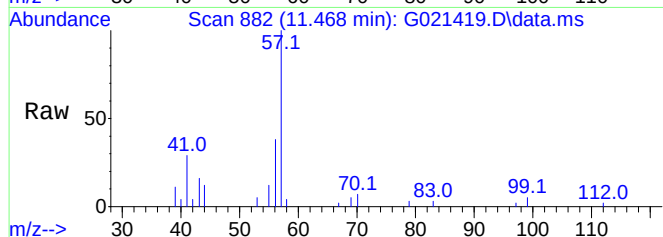
#3
METHYL ACETATE
Concen: 0.07 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.043 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

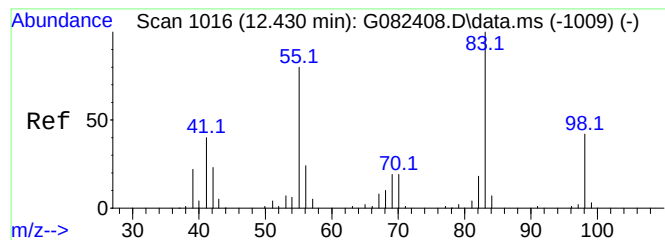
Tgt Ion: 43 Resp: 4376
Ion Ratio Lower Upper
43 100
59 4.3 0.0 27.9
74 21.3 1.0 41.0



#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.07 PPBV
RT: 11.468 min Scan# 882
Delta R.T. 0.029 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

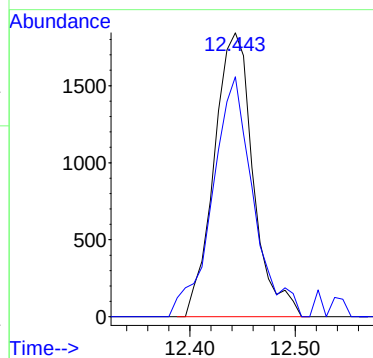
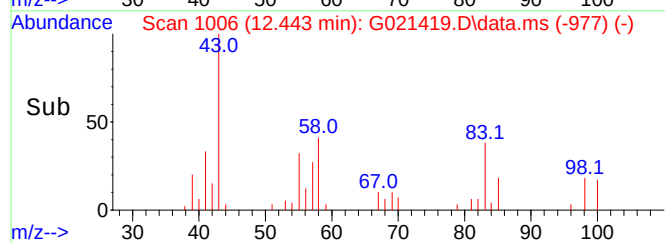
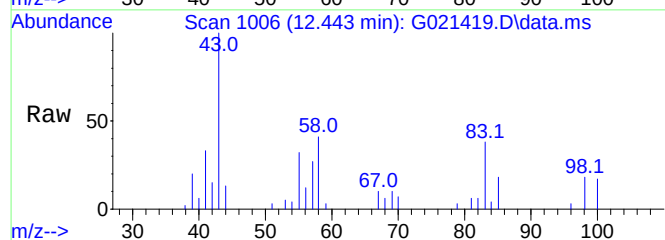
Tgt Ion: 57 Resp: 11850
Ion Ratio Lower Upper
57 100
56 40.8 13.7 53.7
41 32.4 5.8 45.8
99 4.2 0.0 24.7





#6
METHYLCYCLOHEXANE
Concen: 0.07 PPBV
RT: 12.443 min Scan# 1006
Delta R.T. 0.029 min
Lab File: G021419.D
Acq: 15 Feb 2012 12:36 am

Tgt Ion: 83 Resp: 4734
Ion Ratio Lower Upper
83 100
55 88.4 60.5 100.5



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-OA-02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Ambient Air Laboratory ID: 12B0323-18 File ID: G021411.D
 Sampled: 02/08/12 17:44 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 18:30
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.14	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.071	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.54	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.59	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-OA-02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Ambient Air Laboratory ID: 12B0323-18 File ID: G021411.D
 Sampled: 02/08/12 17:44 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 18:30
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	2.4	0.17	1.4	
100-41-4	Ethylbenzene		0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.47	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene	0.044	0.011	0.035	
108-88-3	Toluene	0.20	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.27	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.082	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene		0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-OA-02

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Ambient Air Laboratory ID: 12B0323-18 File ID: G021411.D
Sampled: 02/08/12 17:44 Prepared: 02/14/12 10:43 Analyzed: 02/14/12 18:30
Solids: Preparation: TO-15 Prep Dilution: 0.702
Initial/Final: 400 mL / 400 mL
Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.018	0.070	
95-47-6	o-Xylene		0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021411.D
 Acq On : 14 Feb 2012 6:30 pm
 Sample : 12B0323-18 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:44:37 2012

Vial: 3
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

440

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	276490	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	879105	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	787495	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	446904	8.33	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.13%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.562	85	45182	0.834	PPBV	Qvalue 99
4) CHLOROMETHANE	4.730	50	11936	0.766	PPBV	100
10) ACROLEIN	5.920	56	563	0.087	PPBV	85
11) ACETONE	6.059	43	55838	2.077	PPBV	90
12) TRICHLOROFLUOROMETHANE	6.181	101	16764	0.388	PPBV	100
13) ETHANOL	5.635	45	19572	3.459	PPBV	97
15) METHYLENE CHLORIDE	6.840	49	20060	0.666	PPBV	80
16) FREON 113	7.092	101	5751	0.117	PPBV	92
21) IPA	6.354	45	12038	0.425	PPBV	# 53
22) 2-BUTANONE(MEK)	8.308	43	9999	0.183	PPBV	93
25) HEXANE	8.864	41	5613	0.198	PPBV	98
32) BENZENE	10.347	78	21418	0.196	PPBV	95
33) CARBON TETRACHLORIDE	10.496	117	5253	0.101	PPBV	98
46) TOLUENE	13.388	91	33378	0.281	PPBV	98
50) TETRACHLOROETHENE	14.683	166	3176	0.062	PPBV	97
53) M/P-XYLENE	16.177	91	10236	0.086	PPBV	94

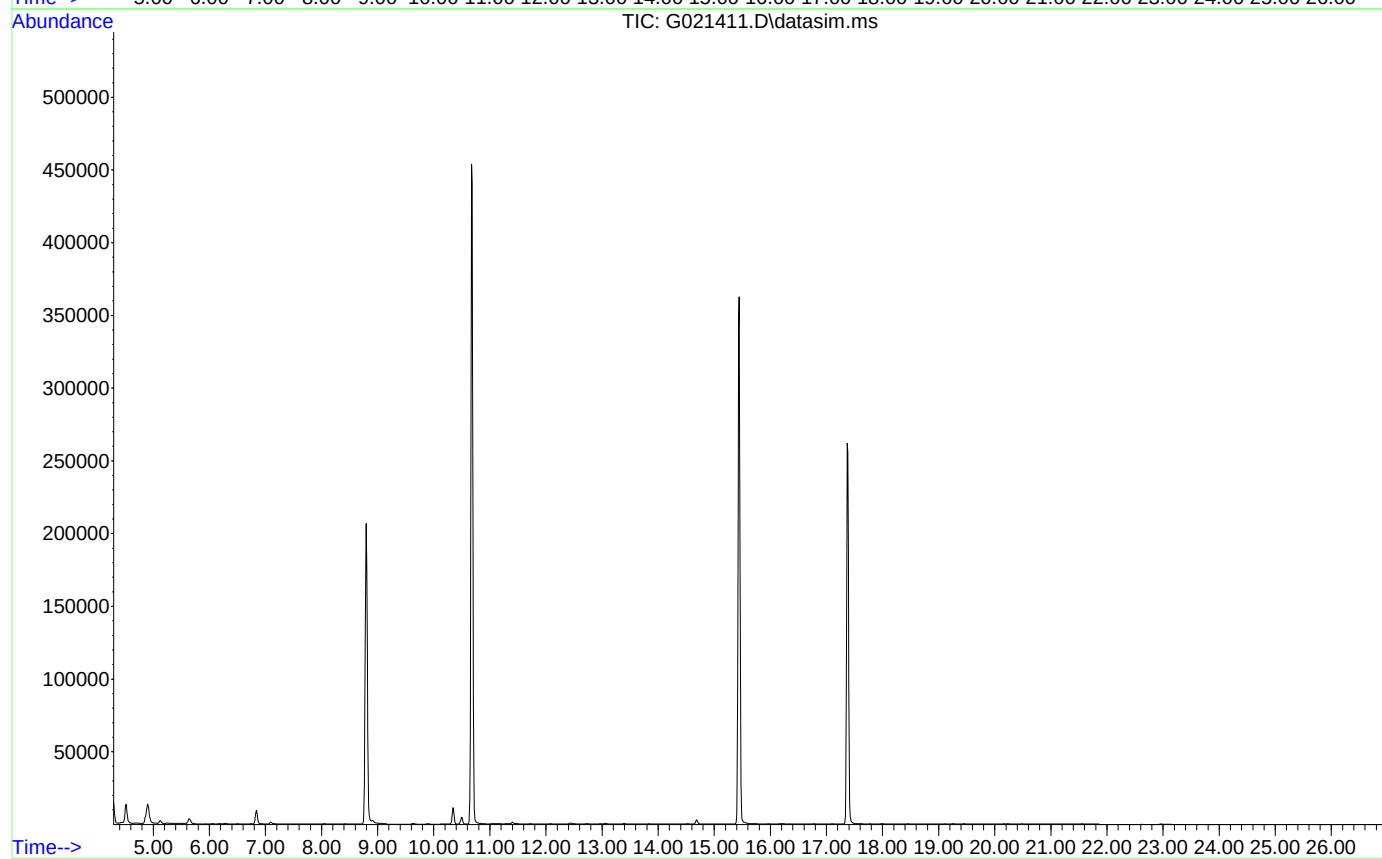
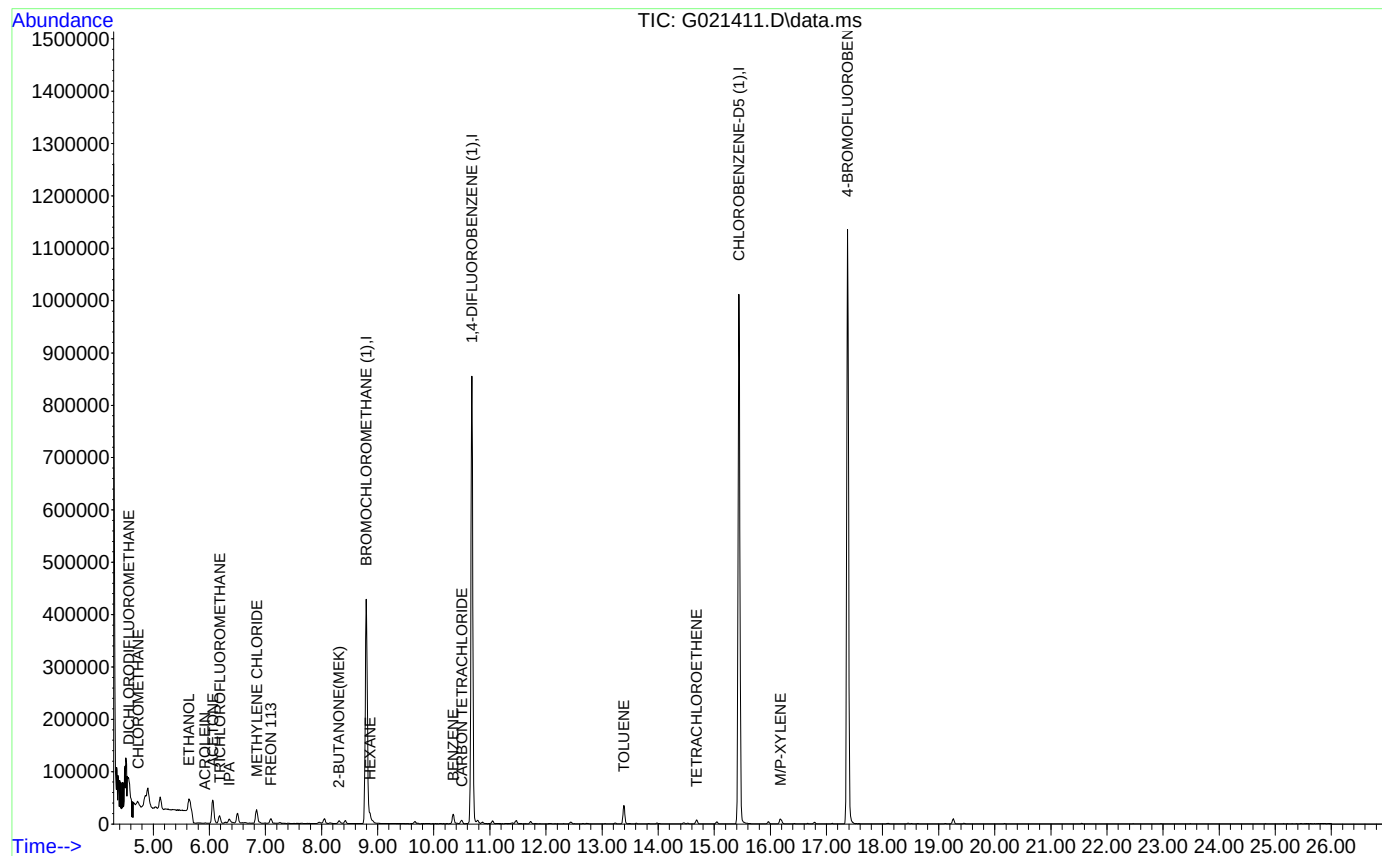
(#) = qualifier out of range (m) = manual integration (+) = signals summed

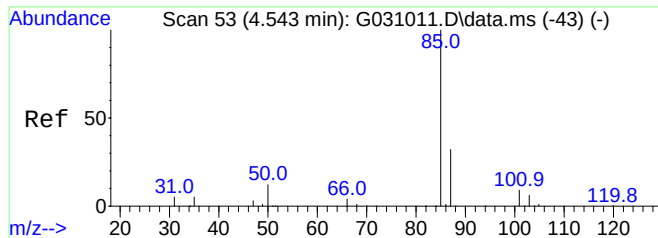
Data File : C:\msdchem\1\data\G021412\G021411.D
Acq On : 14 Feb 2012 6:30 pm
Sample : 12B0323-18 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:44:37 2012

Vial: 3
Operator: WSD
Inst : SYSG
Multiplr: 1.00

441

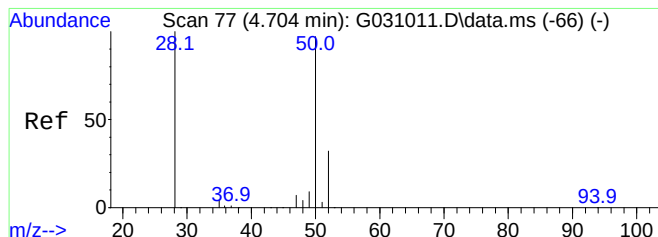
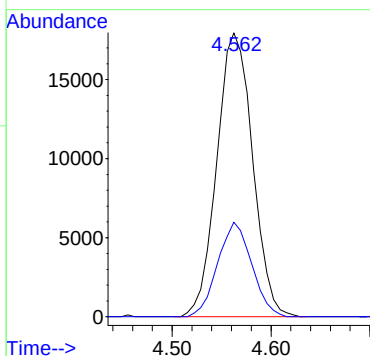
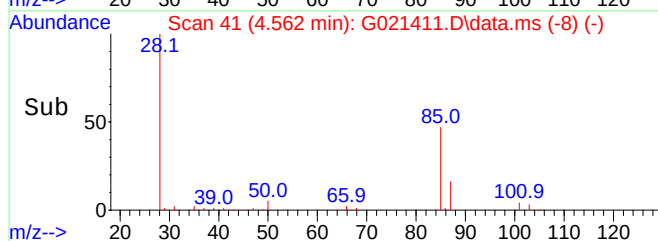
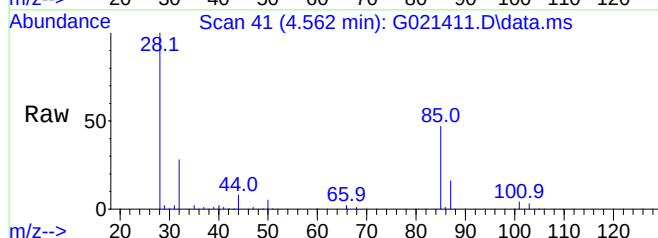
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





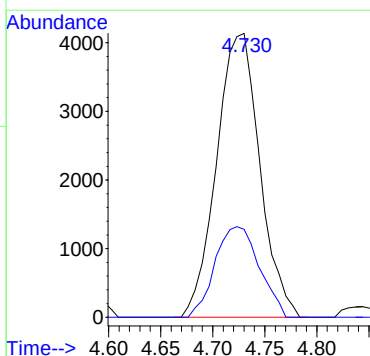
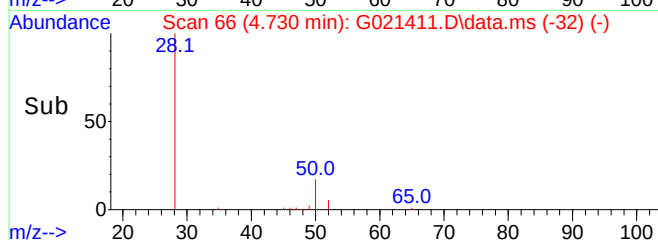
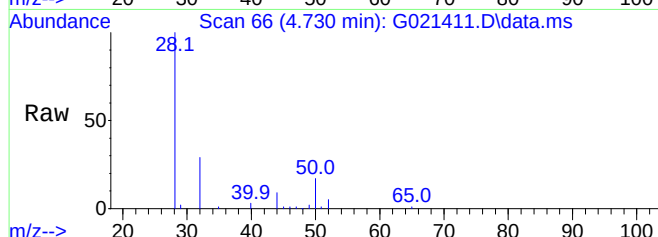
#3
DICHLORODIFLUOROMETHANE
Concen: 0.83 PPBV
RT: 4.562 min Scan# 41
Delta R.T. 0.020 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

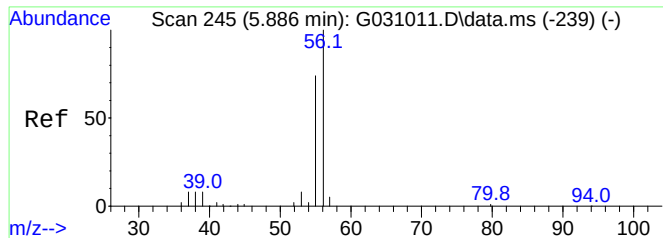
Tgt Ion: 85 Resp: 45182
Ion Ratio Lower Upper
85 100
87 31.6 12.1 52.1



#4
CHLOROMETHANE
Concen: 0.77 PPBV
RT: 4.730 min Scan# 66
Delta R.T. 0.026 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

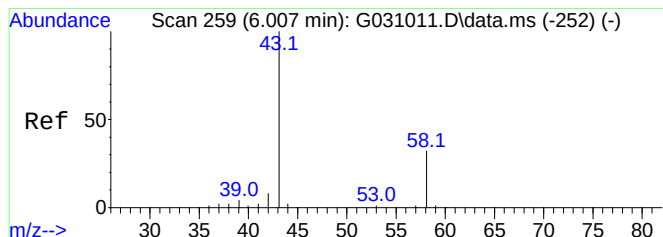
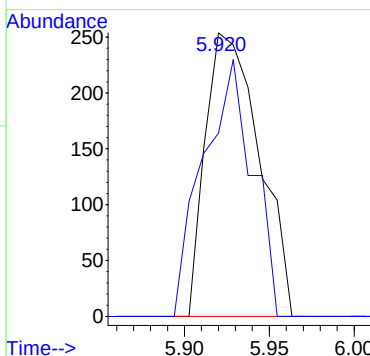
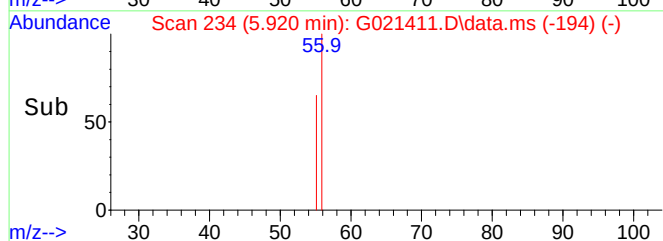
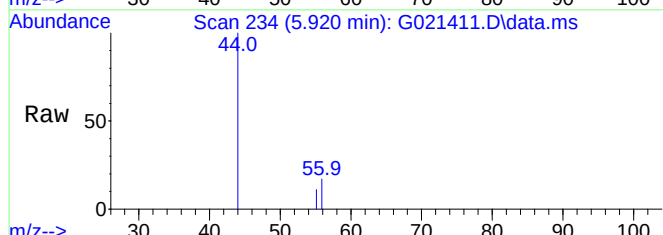
Tgt Ion: 50 Resp: 11936
Ion Ratio Lower Upper
50 100
52 32.8 12.8 52.8





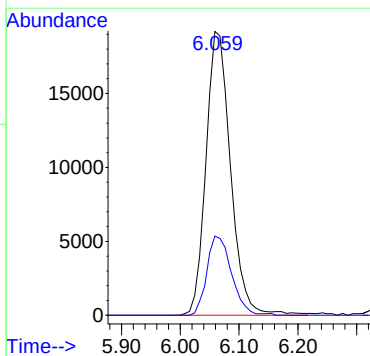
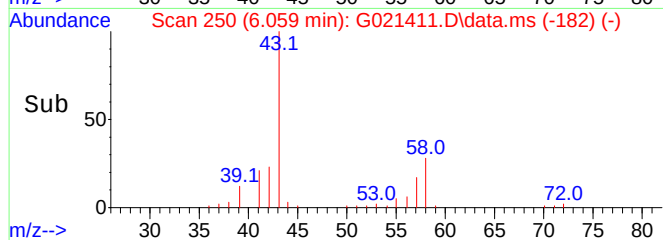
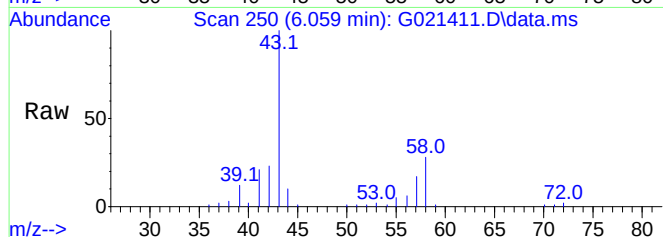
#10
ACROLEIN
Concen: 0.09 PPBV
RT: 5.920 min Scan# 234
Delta R.T. 0.035 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

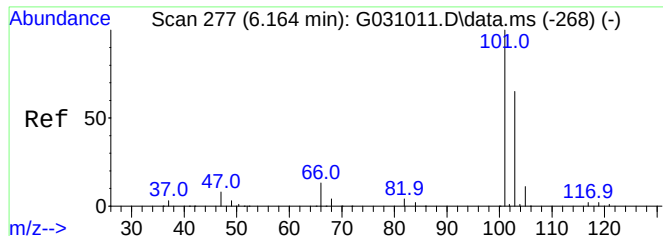
Tgt Ion: 56 Resp: 563
Ion Ratio Lower Upper
56 100
55 82.8 56.1 84.1



#11
ACETONE
Concen: 2.08 PPBV
RT: 6.059 min Scan# 250
Delta R.T. 0.052 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

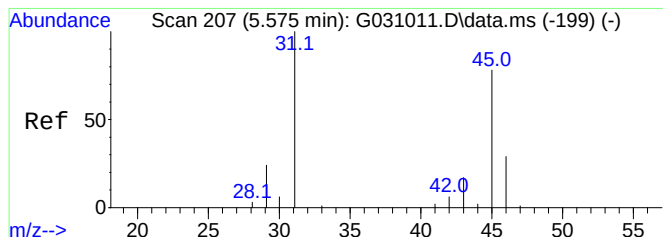
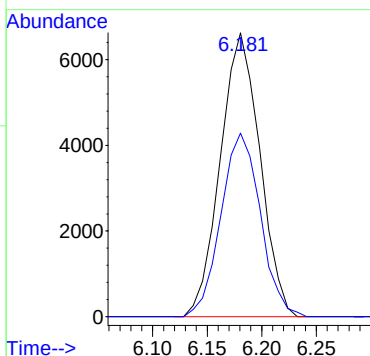
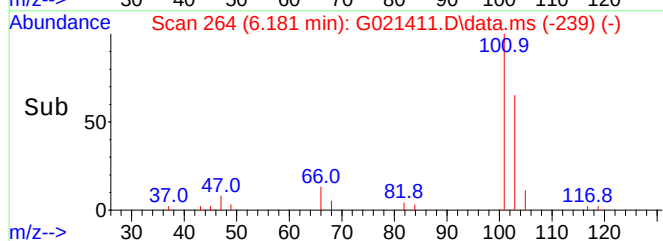
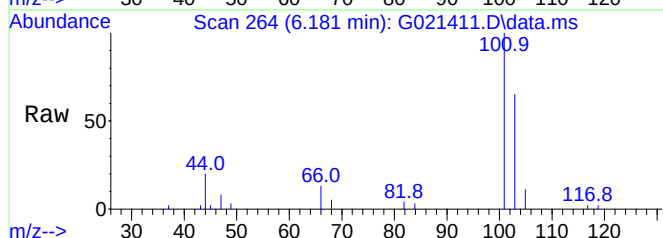
Tgt Ion: 43 Resp: 55838
Ion Ratio Lower Upper
43 100
58 27.9 13.9 53.9





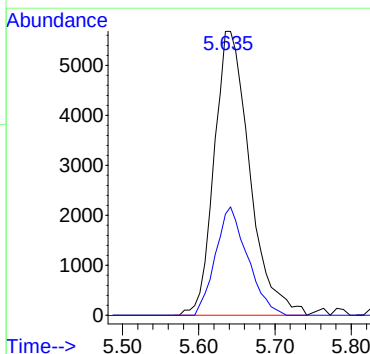
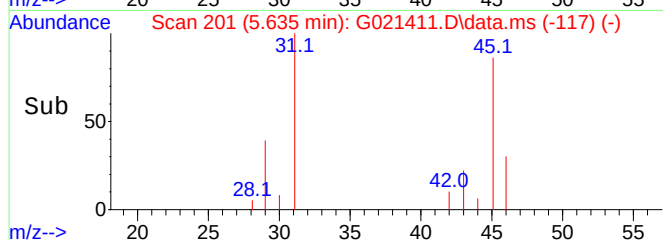
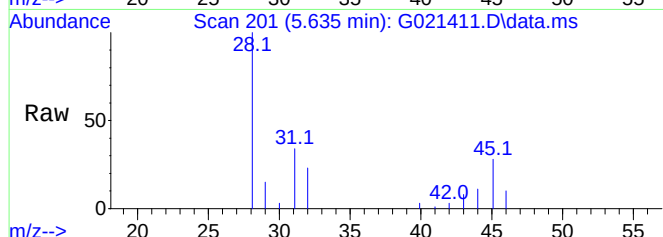
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.39 PPBV
 RT: 6.181 min Scan# 264
 Delta R.T. 0.017 min
 Lab File: G021411.D
 Acq: 14 Feb 2012 6:30 pm

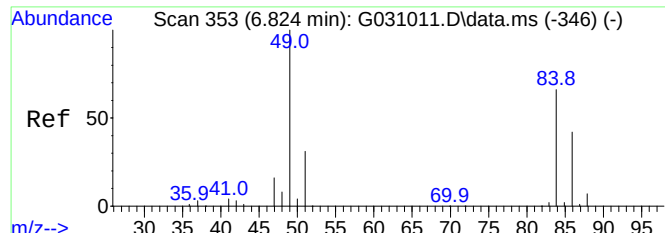
Tgt Ion: 101 Resp: 16764
 Ion Ratio Lower Upper
 101 100
 103 64.5 44.8 84.8



#13
 ETHANOL
 Concen: 3.46 PPBV
 RT: 5.635 min Scan# 201
 Delta R.T. 0.061 min
 Lab File: G021411.D
 Acq: 14 Feb 2012 6:30 pm

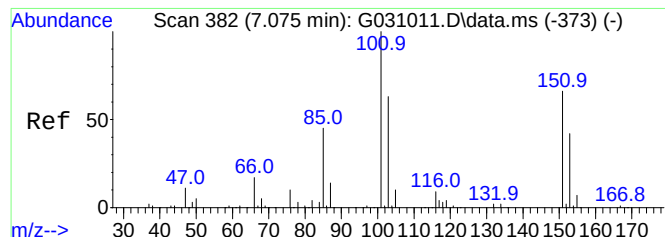
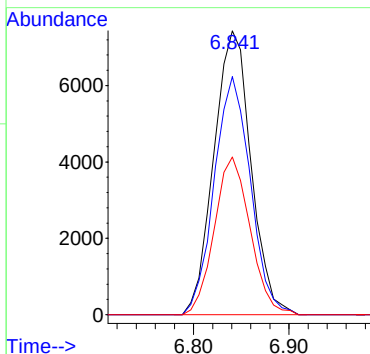
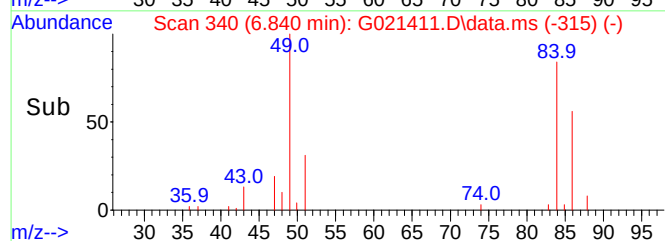
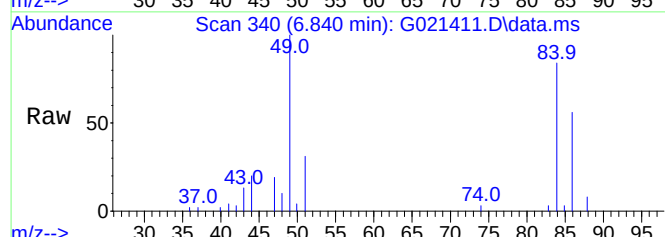
Tgt Ion: 45 Resp: 19572
 Ion Ratio Lower Upper
 45 100
 46 35.8 14.0 54.0





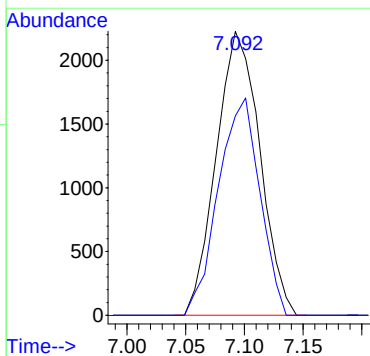
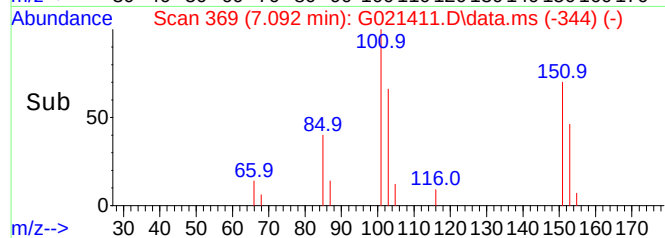
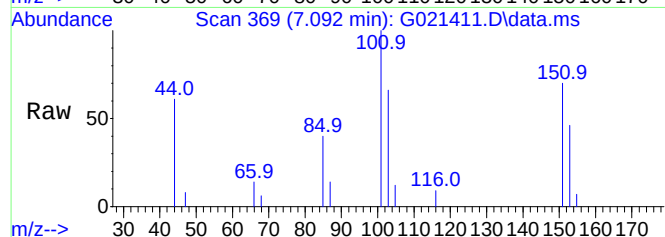
#15
METHYLENE CHLORIDE
Concen: 0.67 PPBV
RT: 6.840 min Scan# 340
Delta R.T. 0.017 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

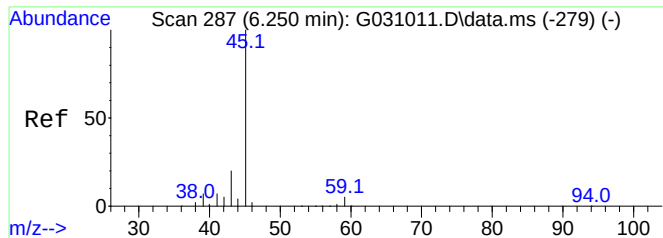
Tgt Ion: 49 Resp: 20060
Ion Ratio Lower Upper
49 100
84 81.8 45.2 85.2
86 53.6 21.4 61.4



#16
FREON 113
Concen: 0.12 PPBV
RT: 7.092 min Scan# 369
Delta R.T. 0.017 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

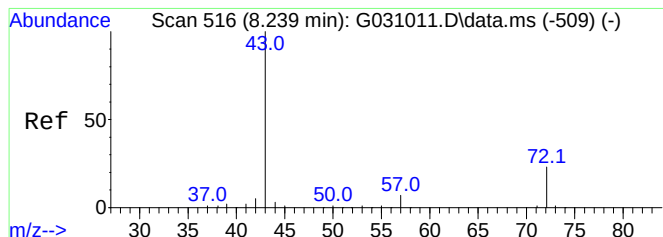
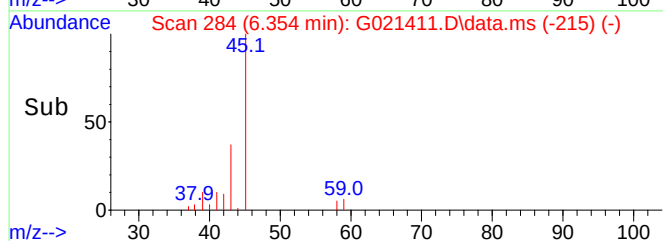
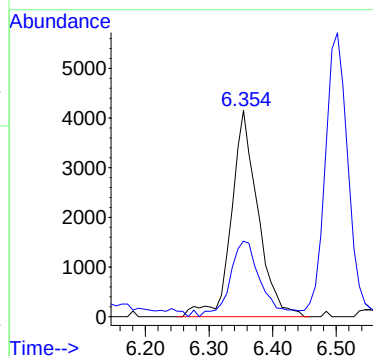
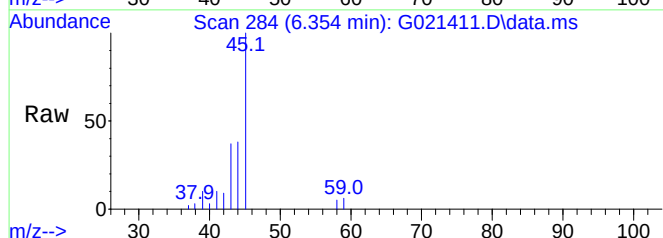
Tgt Ion: 101 Resp: 5751
Ion Ratio Lower Upper
101 100
151 72.6 46.3 86.3





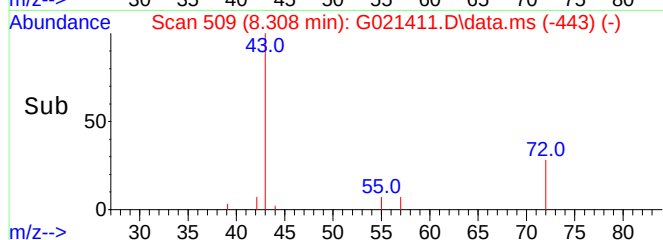
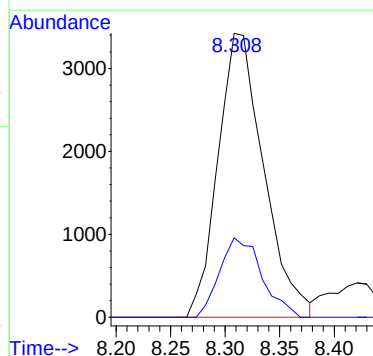
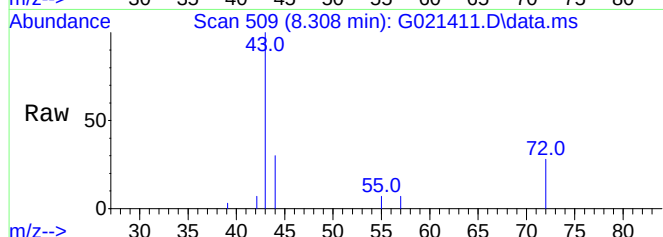
#21
IPA
Concen: 0.43 PPBV
RT: 6.354 min Scan# 284
Delta R.T. 0.104 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

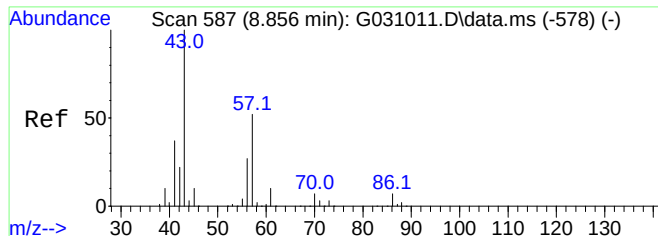
Tgt Ion: 45 Resp: 12038
Ion Ratio Lower Upper
45 100
43 42.5 0.6 40.6#



#22
2-BUTANONE(MEK)
Concen: 0.18 PPBV
RT: 8.308 min Scan# 509
Delta R.T. 0.069 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

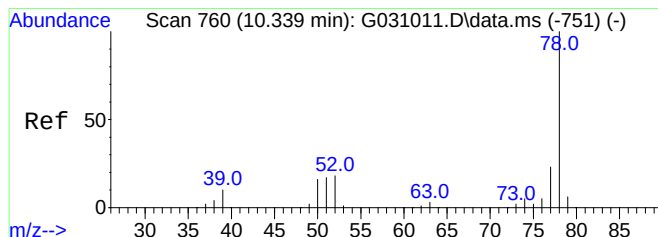
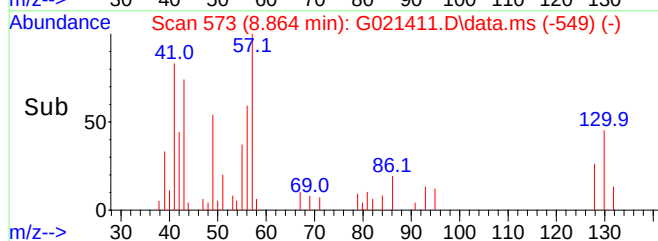
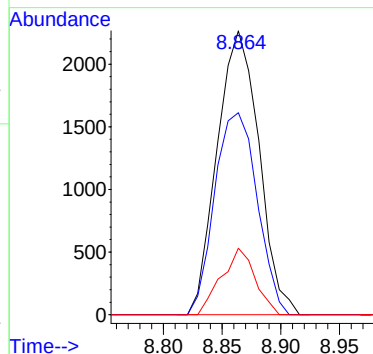
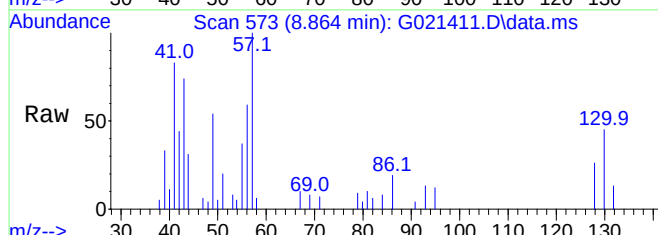
Tgt Ion: 43 Resp: 9999
Ion Ratio Lower Upper
43 100
72 25.8 2.6 42.6





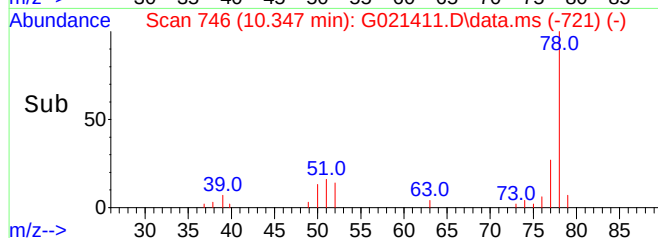
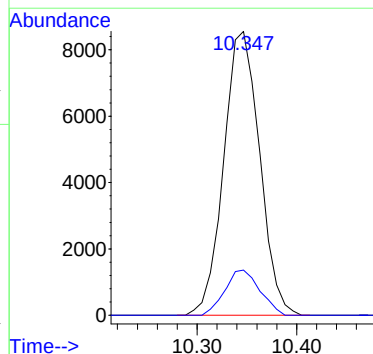
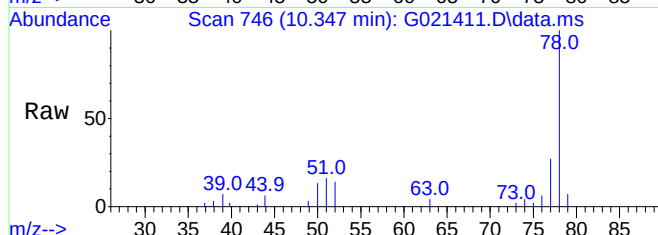
#25
 HEXANE
 Concen: 0.20 PPBV
 RT: 8.864 min Scan# 573
 Delta R.T. 0.008 min
 Lab File: G021411.D
 Acq: 14 Feb 2012 6:30 pm

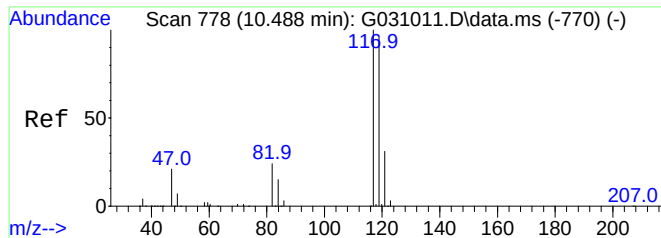
Tgt Ion: 41 Resp: 5613
 Ion Ratio Lower Upper
 41 100
 56 72.2 50.8 90.8
 86 18.8 9.6 29.6



#32
 BENZENE
 Concen: 0.20 PPBV
 RT: 10.347 min Scan# 746
 Delta R.T. 0.008 min
 Lab File: G021411.D
 Acq: 14 Feb 2012 6:30 pm

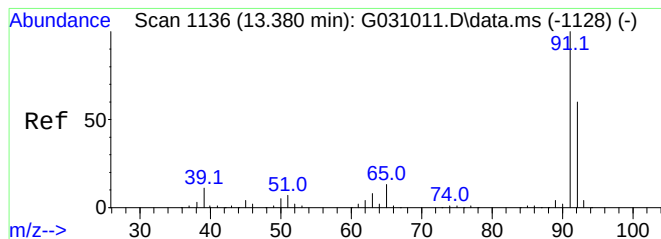
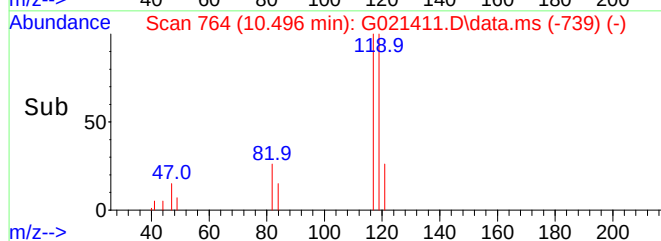
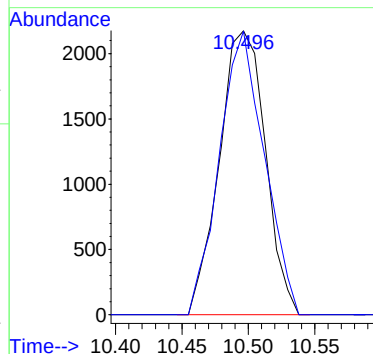
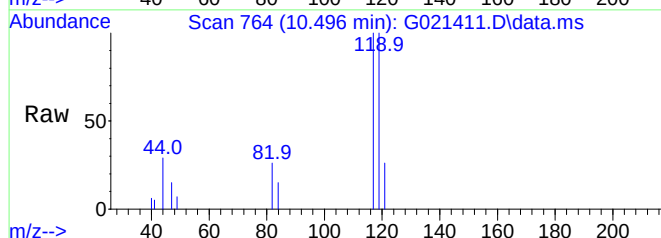
Tgt Ion: 78 Resp: 21418
 Ion Ratio Lower Upper
 78 100
 51 15.5 0.0 37.6





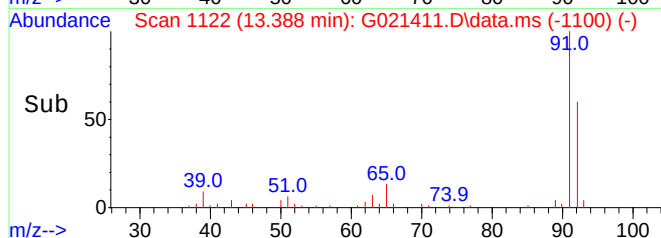
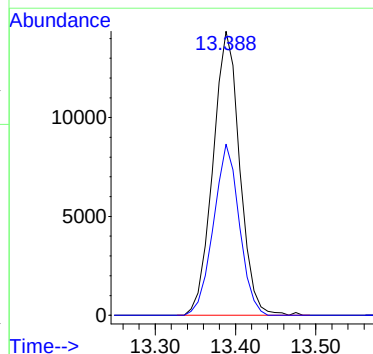
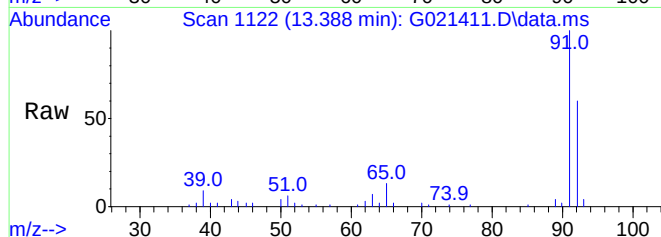
#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.496 min Scan# 764
Delta R.T. 0.008 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

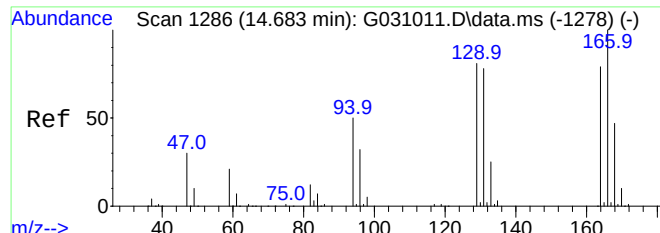
Tgt Ion: 117 Resp: 5253
Ion Ratio Lower Upper
117 100
119 97.4 75.4 115.4



#46
TOLUENE
Concen: 0.28 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

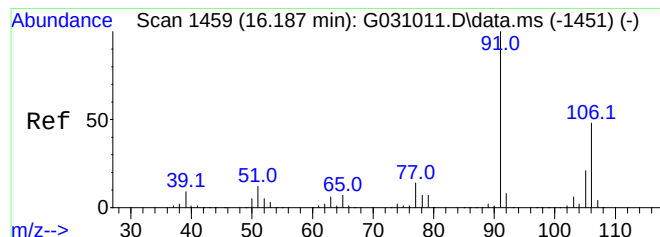
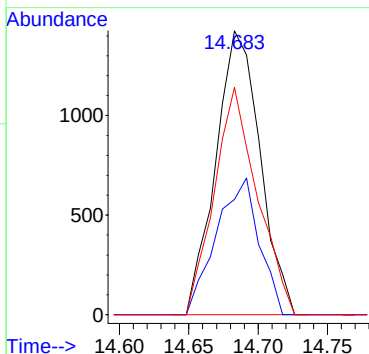
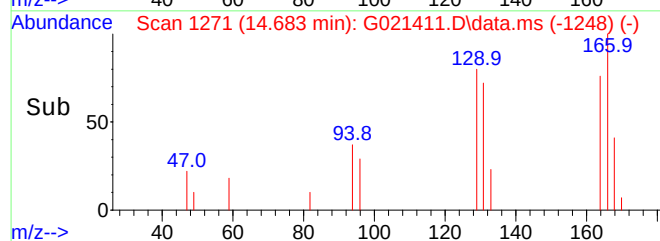
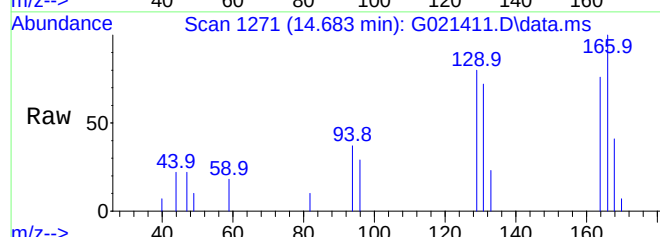
Tgt Ion: 91 Resp: 33378
Ion Ratio Lower Upper
91 100
92 58.0 39.7 79.7





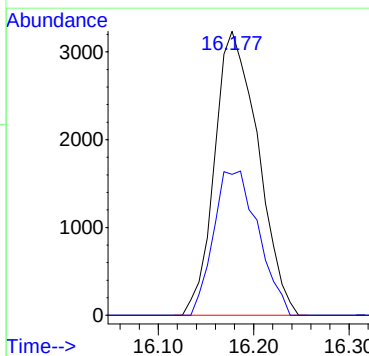
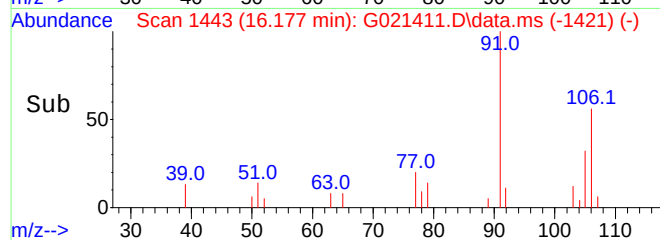
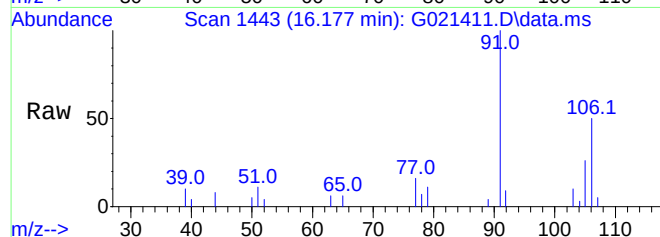
#50
TETRACHLOROETHENE
Concen: 0.06 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.000 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

Tgt Ion: 166 Resp: 3176
Ion Ratio Lower Upper
166 100
168 46.4 27.0 67.0
129 77.5 60.6 100.6



#53
M/P-XYLENE
Concen: 0.09 PPBV
RT: 16.177 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021411.D
Acq: 14 Feb 2012 6:30 pm

Tgt Ion: 91 Resp: 10236
Ion Ratio Lower Upper
91 100
106 52.4 28.3 68.3



Data File : C:\msdchem\1\data\G021412\G021411.D
Acq On : 14 Feb 2012 6:30 pm
Sample : 12B0323-18 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:11:37 2012

Vial: 3
Operator: WSD
Inst : SYSG
Multiplr: 1.00

450

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	878581	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.439	54	156058	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	573952	9.72	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	121.50%

Target Compounds	Qvalue

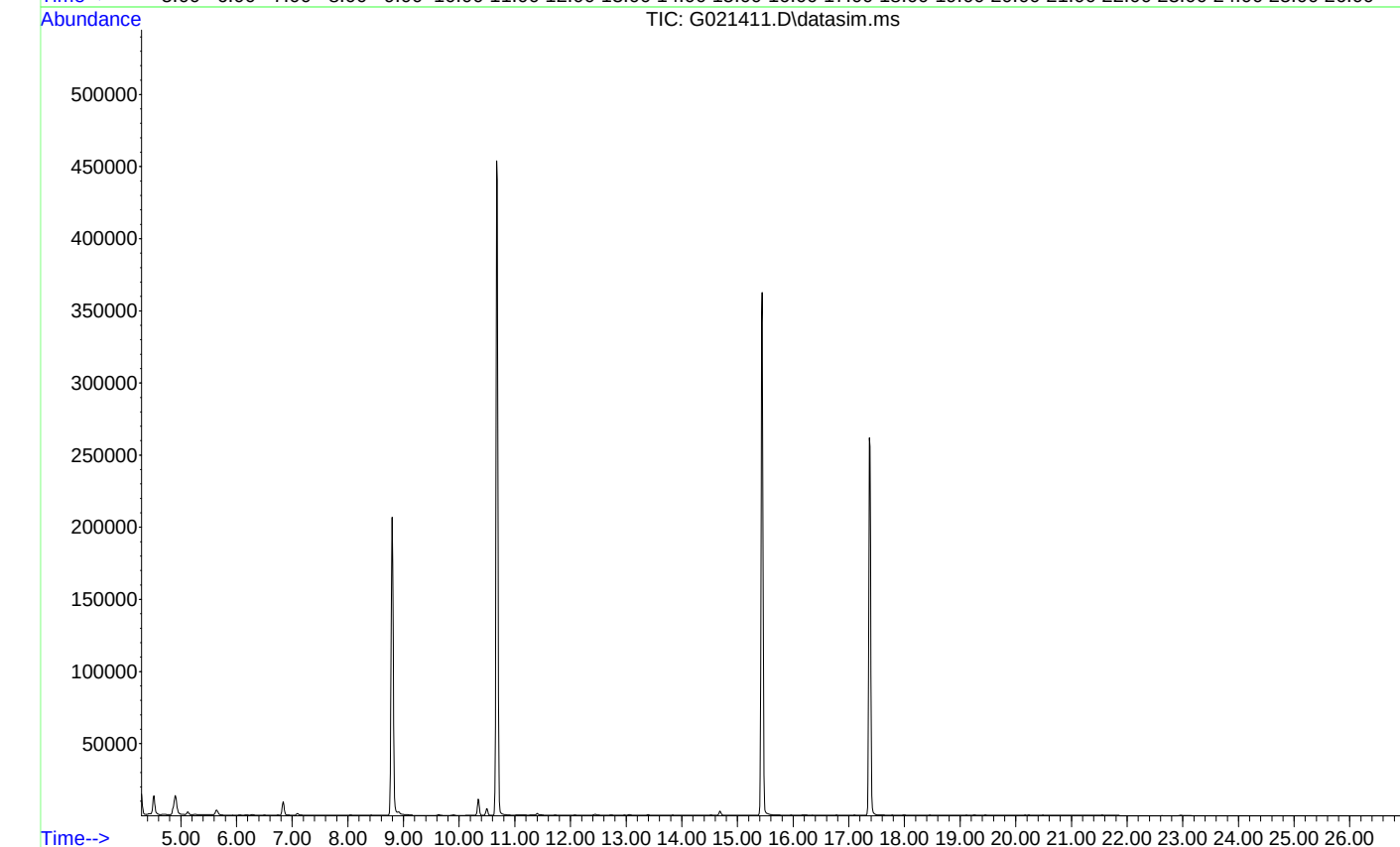
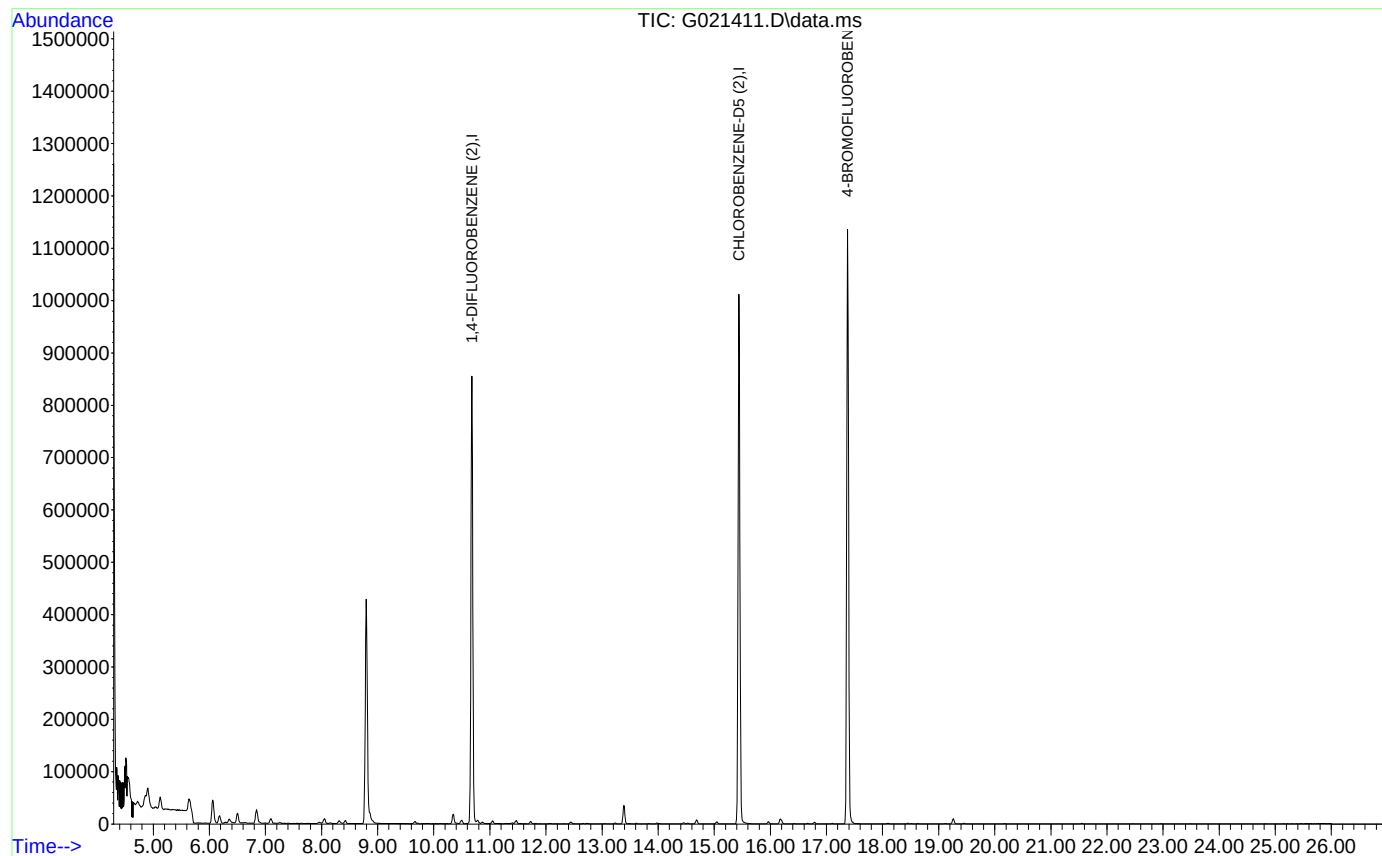
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021412\G021411.D
Acq On : 14 Feb 2012 6:30 pm
Sample : 12B0323-18 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:11:37 2012

Vial: 3
Operator: WSD
Inst : SYSG
Multiplr: 1.00

451

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-SS-09

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-19 File ID: G021221.D
 Sampled: 02/08/12 15:19 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 14:56
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform		0.036	0.10	
74-87-3	Chloromethane		0.050	0.10	
110-82-7	Cyclohexane	0.14	0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.59	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-SS-09

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-19 File ID: G021221.D
 Sampled: 02/08/12 15:19 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 14:56
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol		0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride	1.9	0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	1.2	0.030	0.10	
108-88-3	Toluene	0.10	0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane		0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	11	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-SS-09

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-19	File ID:	G021221.D		
Sampled:	02/08/12 15:19	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 14:56		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021221.D
 Acq On : 13 Feb 2012 2:56 pm
 Sample : 12B0323-19 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 16:14:20 2012

Vial: 14
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

455

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	303458	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	934612	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	861497	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	473997	8.08	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	101.00%
Target Compounds						
2) PROPENE	4.469	41	15195	0.764	PPBV	Qvalue 90
3) DICHLORODIFLUOROMETHANE	4.542	85	17444	0.293	PPBV	100
10) ACROLEIN	5.903	56	926	0.130	PPBV	94
11) ACETONE	6.024	43	243788	8.261	PPBV	95
12) TRICHLOROFLUOROMETHANE	6.172	101	255781	5.396	PPBV	100
13) ETHANOL	5.601	45	5225	0.841	PPBV	85
15) METHYLENE CHLORIDE	6.832	49	32125	0.972	PPBV	# 75
17) CARBON DISULFIDE	7.127	76	33165	0.393	PPBV	92
21) IPA	6.293	45	16161	0.520	PPBV	63
22) 2-BUTANONE(MEK)	8.282	43	23390	0.391	PPBV	89
25) HEXANE	8.864	41	4150	0.134	PPBV	97
34) CYCLOHEXANE	10.654	84	3453	0.071	PPBV	# 25
46) TOLUENE	13.380	91	6757	0.052	PPBV	100
50) TETRACHLOROETHENE	14.683	166	33083	0.592	PPBV	96

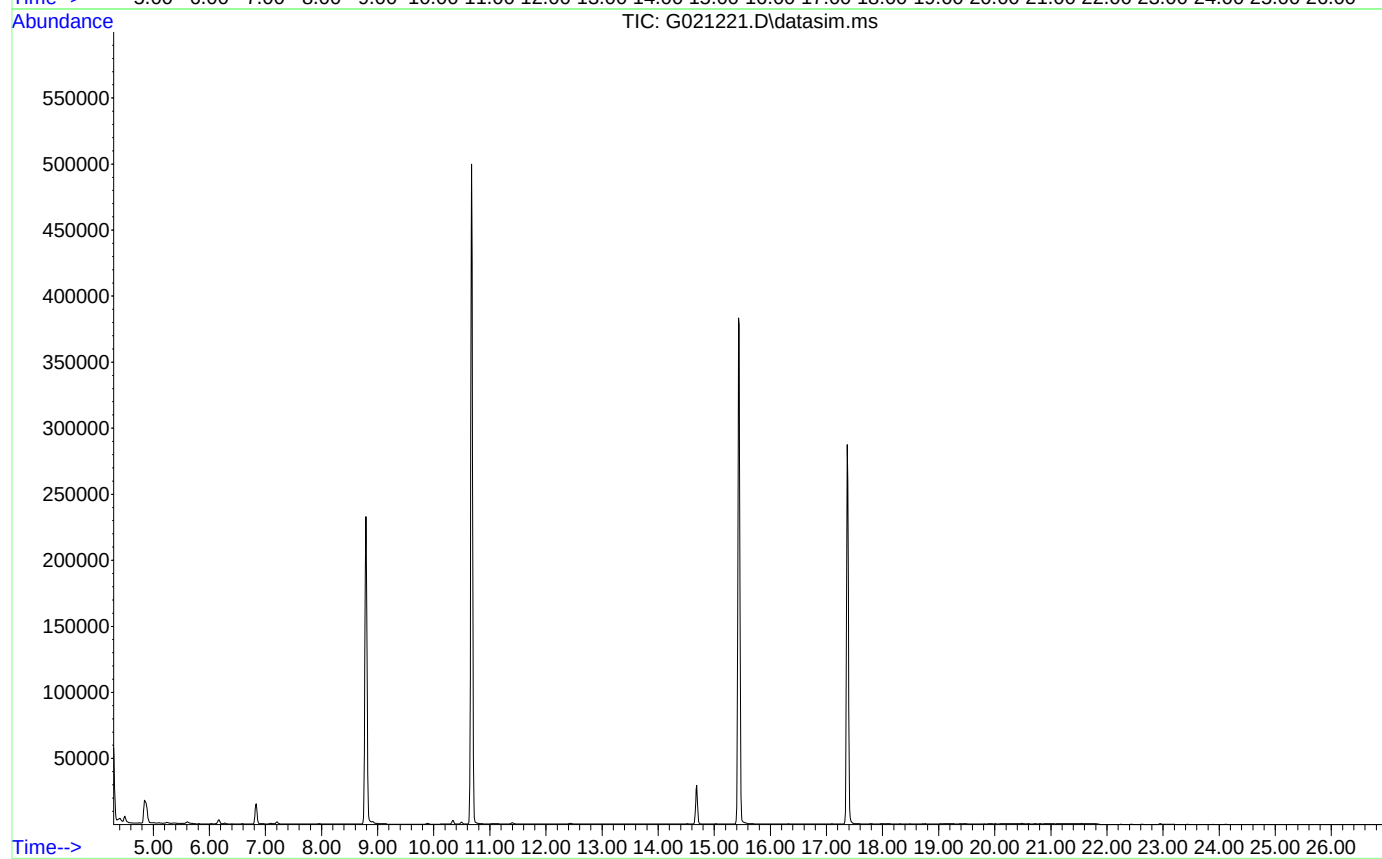
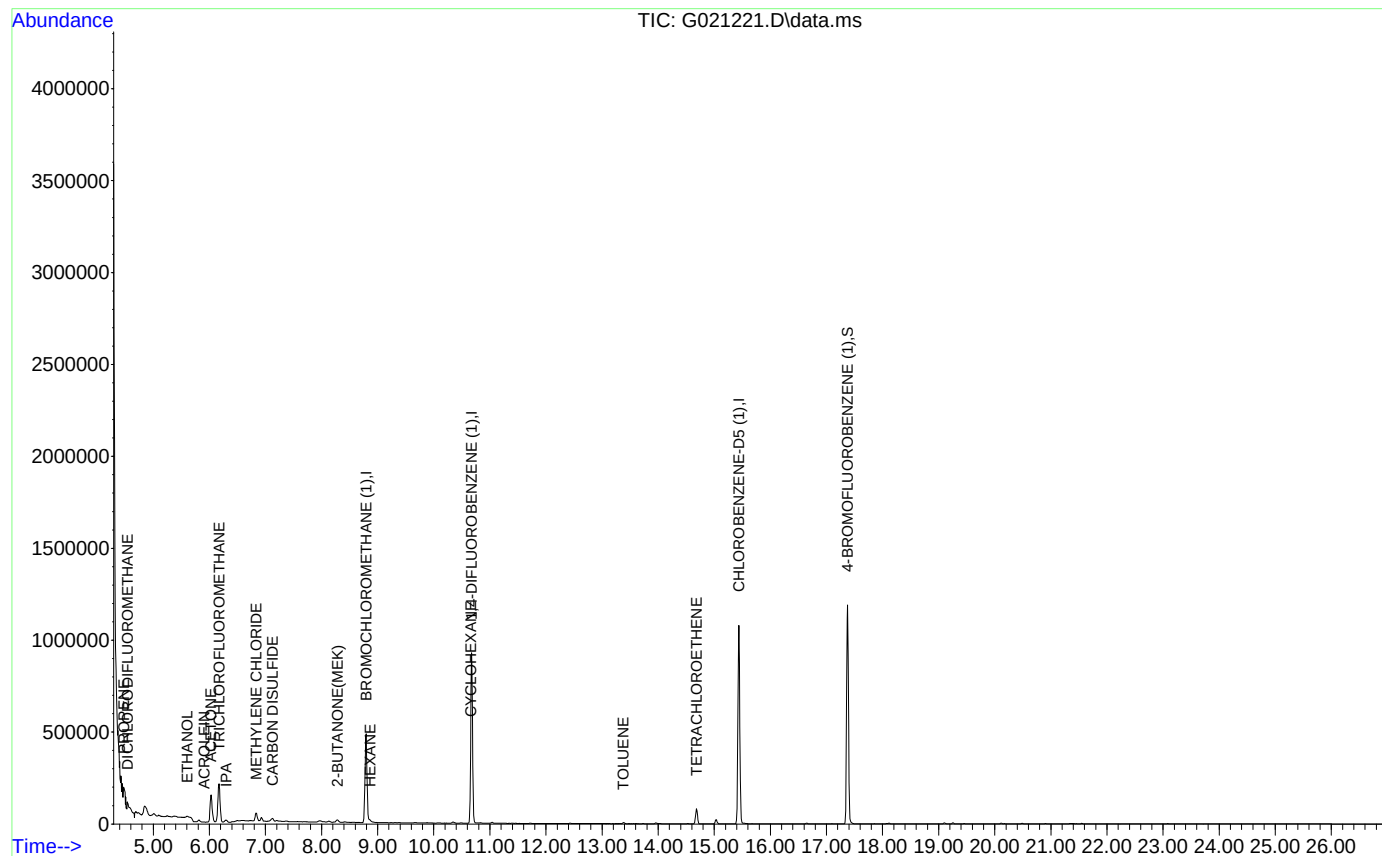
(#) = qualifier out of range (m) = manual integration (+) = signals summed

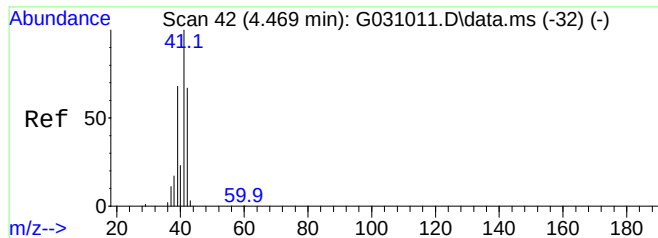
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Acq On : 13 Feb 2012 2:56 pm
Sample : 12B0323-19 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 16:14:20 2012

Vial: 14
Operator: TPH
Inst : SYSG
Multiplr: 1.00

456

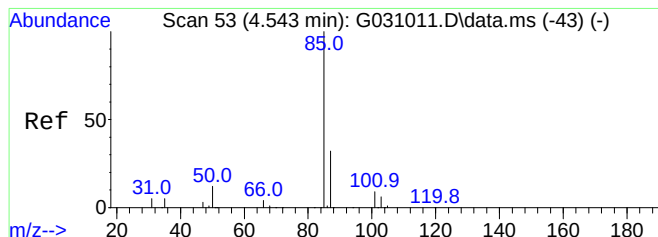
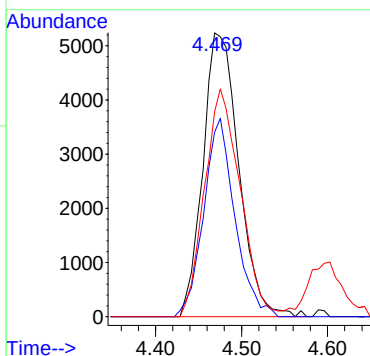
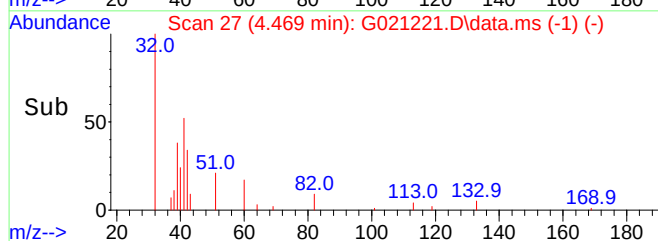
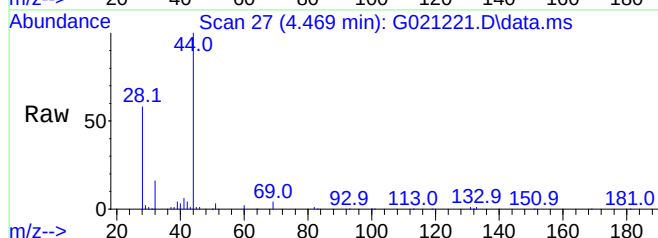
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Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





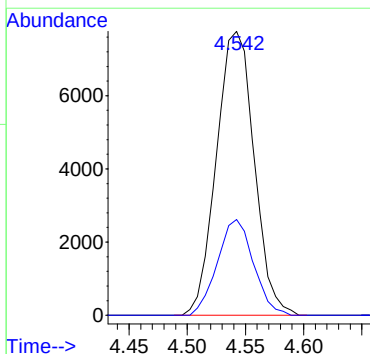
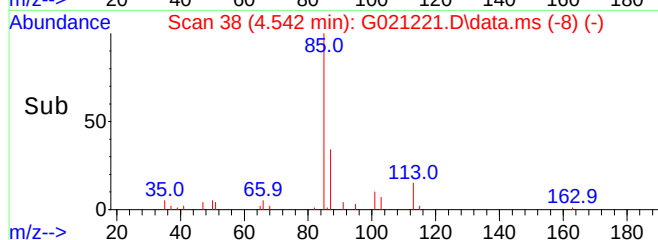
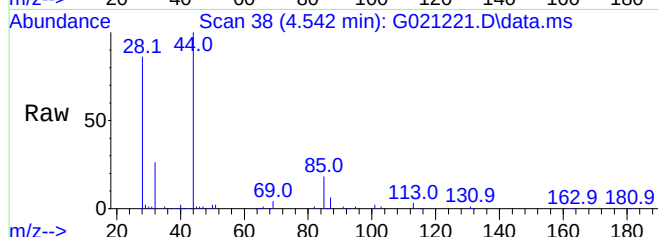
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PROPENE
Concen: 0.76 PPBV
RT: 4.469 min Scan# 27
Delta R.T. 0.001 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

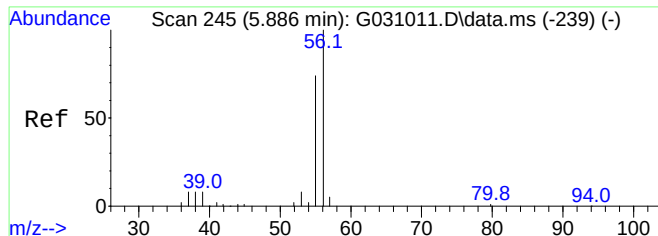
Tgt Ion: 41 Resp: 15195
Ion Ratio Lower Upper
41 100
42 60.7 46.4 86.4
39 79.6 48.8 88.8



#3
DICHLORODIFLUOROMETHANE
Concen: 0.29 PPBV
RT: 4.542 min Scan# 38
Delta R.T. -0.000 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

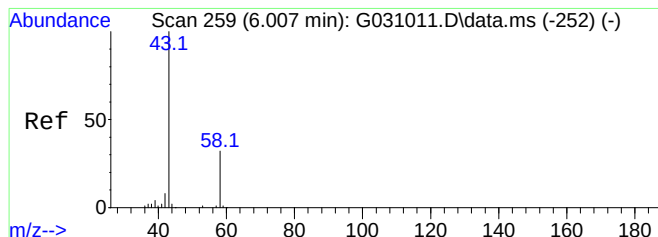
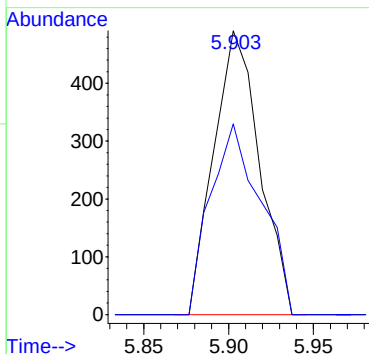
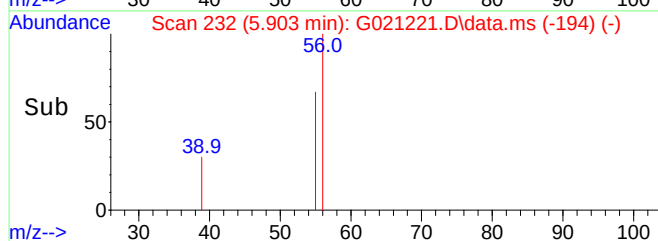
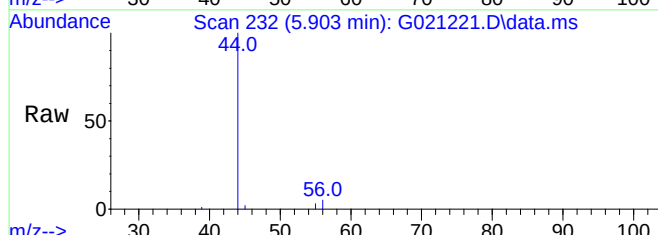
Tgt Ion: 85 Resp: 17444
Ion Ratio Lower Upper
85 100
87 32.3 12.1 52.1





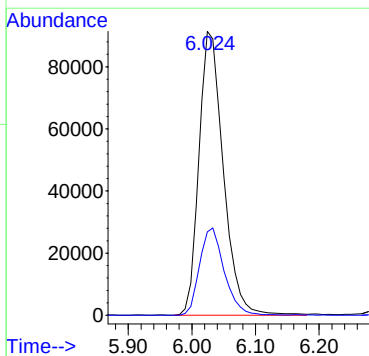
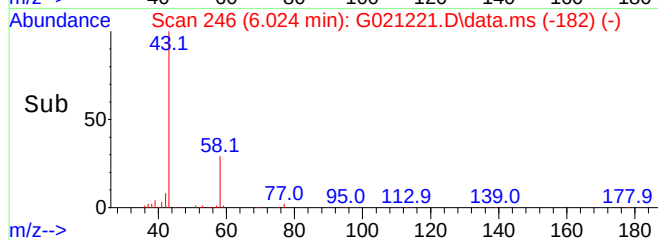
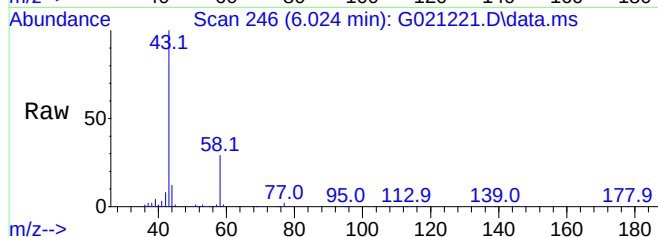
#10
ACROLEIN
Concen: 0.13 PPBV
RT: 5.903 min Scan# 232
Delta R.T. 0.018 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

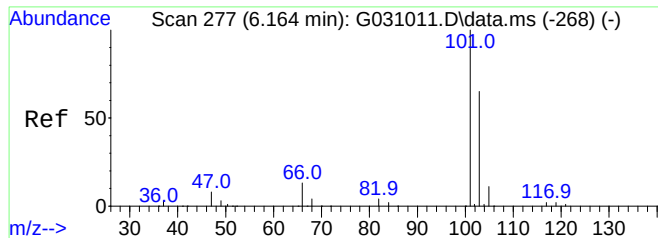
Tgt Ion: 56 Resp: 926
Ion Ratio Lower Upper
56 100
55 74.6 56.1 84.1



#11
ACETONE
Concen: 8.26 PPBV
RT: 6.024 min Scan# 246
Delta R.T. 0.017 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

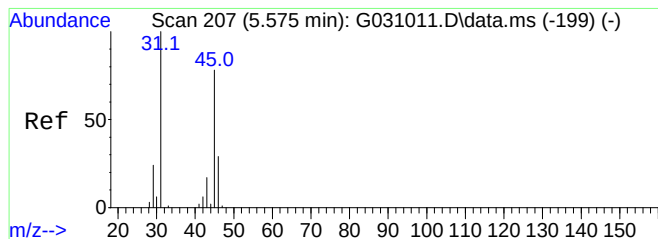
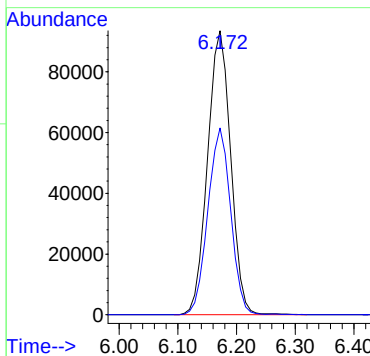
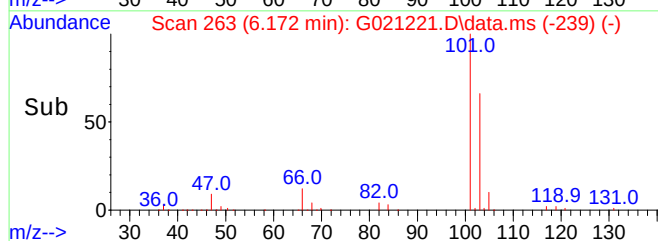
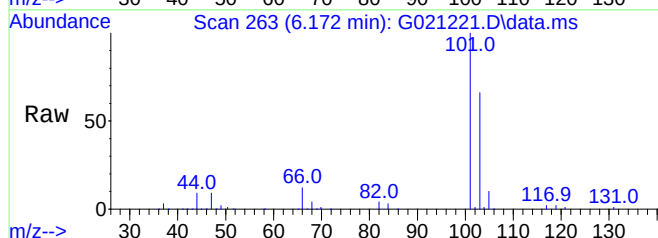
Tgt Ion: 43 Resp: 243788
Ion Ratio Lower Upper
43 100
58 31.1 13.9 53.9





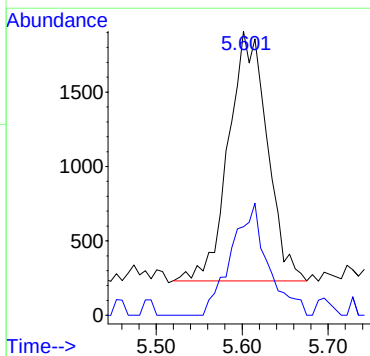
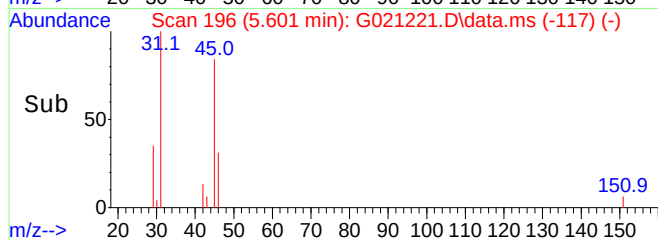
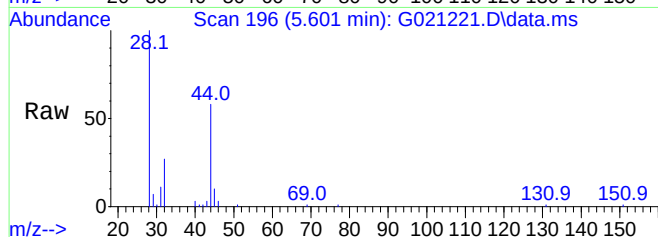
#12
 TRICHLOROFLUOROMETHANE
 Concen: 5.40 PPBV
 RT: 6.172 min Scan# 263
 Delta R.T. 0.008 min
 Lab File: G021221.D
 Acq: 13 Feb 2012 2:56 pm

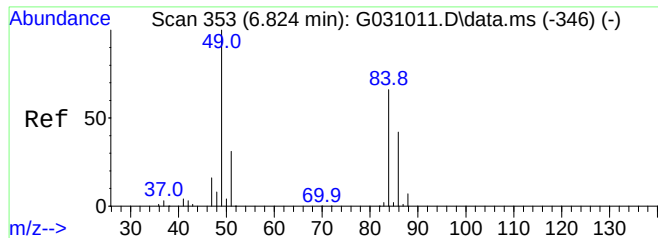
Tgt Ion: 101 Resp: 255781
 Ion Ratio Lower Upper
 101 100
 103 64.9 44.8 84.8



#13
 ETHANOL
 Concen: 0.84 PPBV
 RT: 5.601 min Scan# 196
 Delta R.T. 0.027 min
 Lab File: G021221.D
 Acq: 13 Feb 2012 2:56 pm

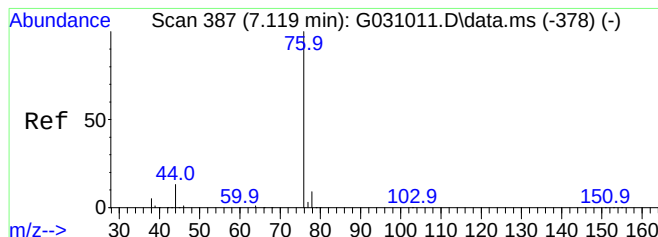
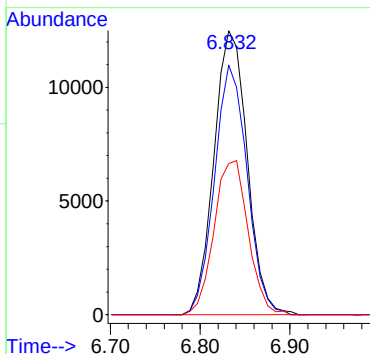
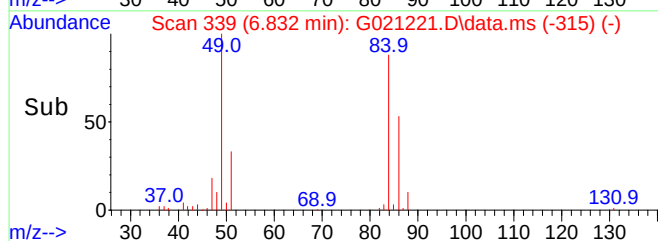
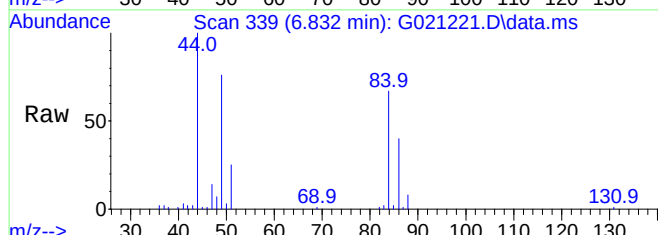
Tgt Ion: 45 Resp: 5225
 Ion Ratio Lower Upper
 45 100
 46 42.5 14.0 54.0





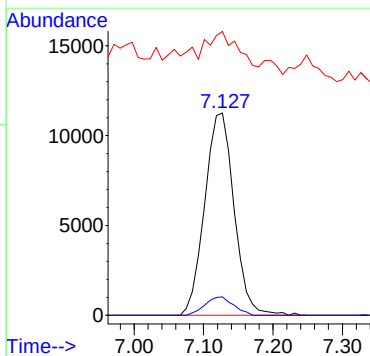
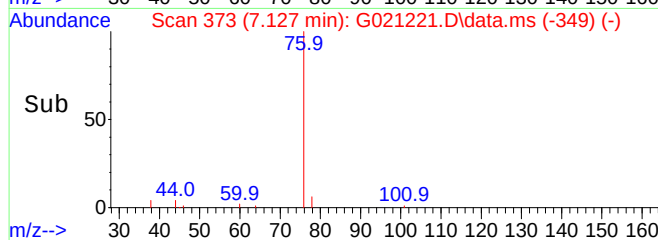
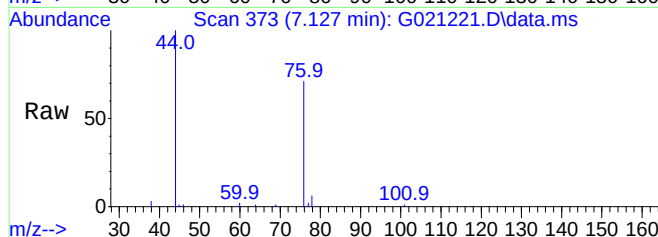
#15
METHYLENE CHLORIDE
Concen: 0.97 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

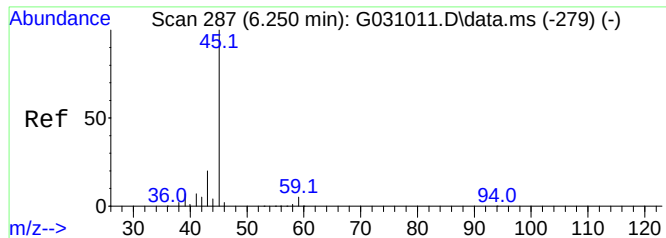
Tgt Ion: 49 Resp: 32125
Ion Ratio Lower Upper
49 100
84 86.1 45.2 85.2#
86 55.5 21.4 61.4



#17
CARBON DISULFIDE
Concen: 0.39 PPBV
RT: 7.127 min Scan# 373
Delta R.T. 0.008 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

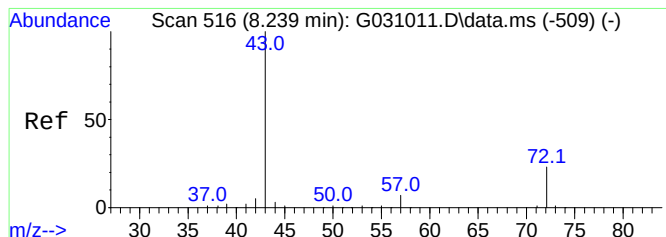
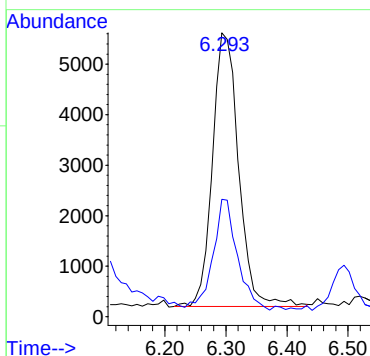
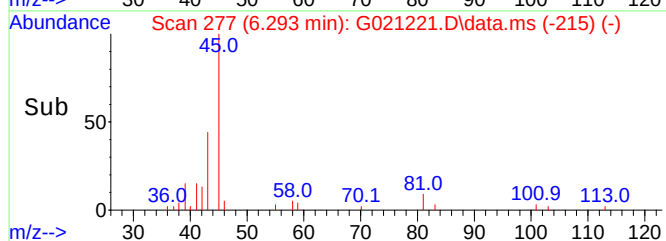
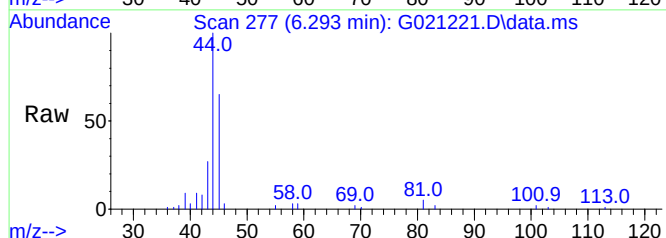
Tgt Ion: 76 Resp: 33165
Ion Ratio Lower Upper
76 100
78 8.8 0.0 30.7
44 17.7 0.0 33.4





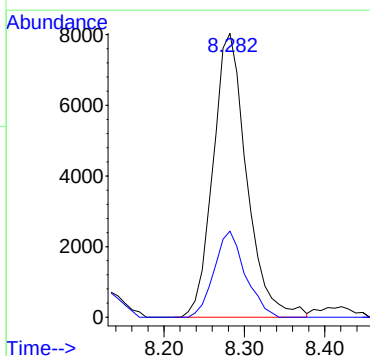
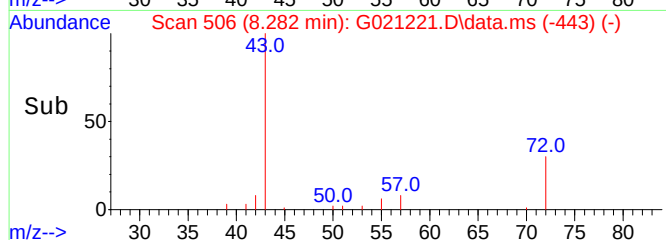
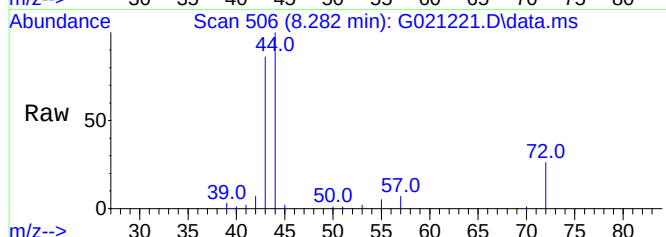
#21
IPA
Concen: 0.52 PPBV
RT: 6.293 min Scan# 277
Delta R.T. 0.043 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

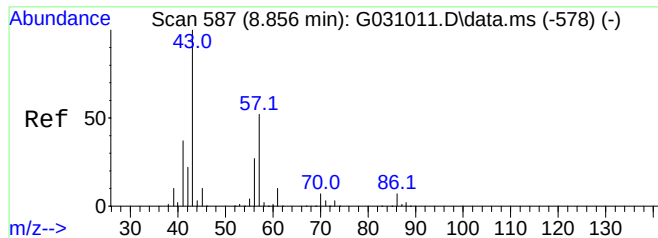
Tgt Ion: 45 Resp: 16161
Ion Ratio Lower Upper
45 100
43 37.6 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.39 PPBV
RT: 8.282 min Scan# 506
Delta R.T. 0.043 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

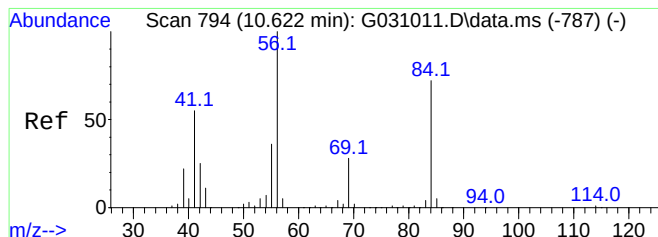
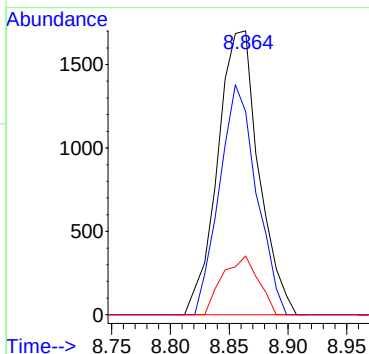
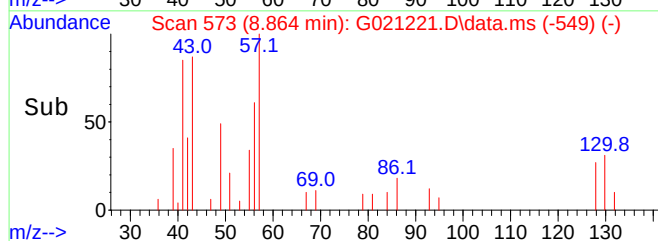
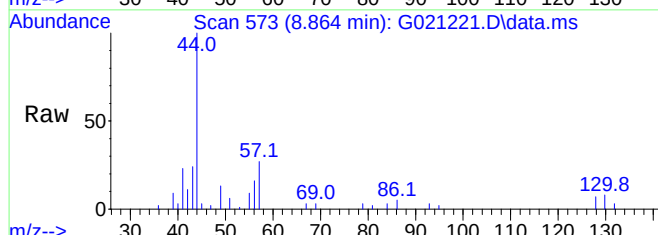
Tgt Ion: 43 Resp: 23390
Ion Ratio Lower Upper
43 100
72 28.1 2.6 42.6





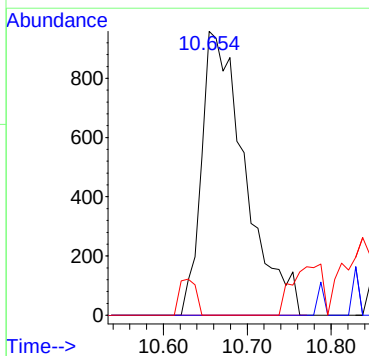
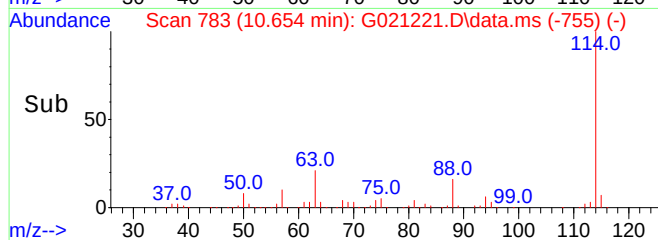
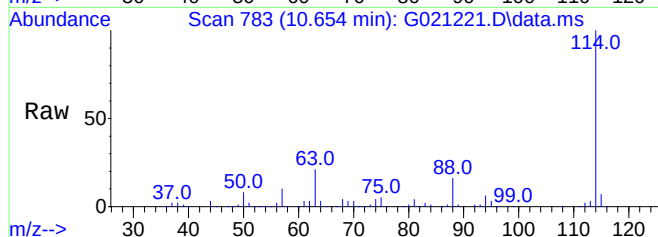
#25
HEXANE
Concen: 0.13 PPBV
RT: 8.864 min Scan# 573
Delta R.T. 0.008 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

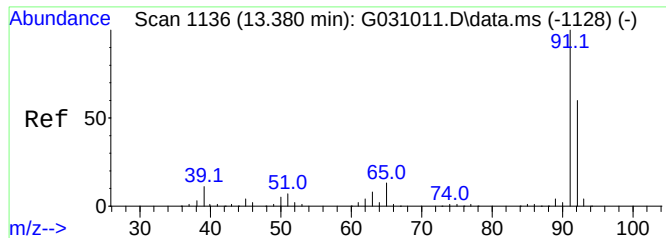
Tgt Ion: 41 Resp: 4150
Ion Ratio Lower Upper
41 100
56 72.9 50.8 90.8
86 17.9 9.6 29.6



#34
CYCLOHEXANE
Concen: 0.07 PPBV
RT: 10.654 min Scan# 783
Delta R.T. 0.033 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

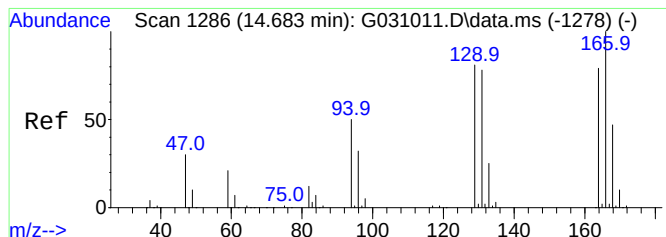
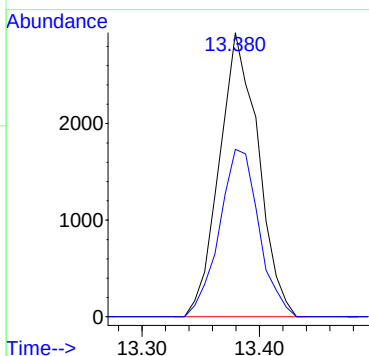
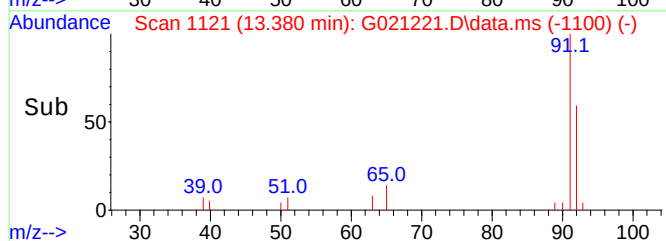
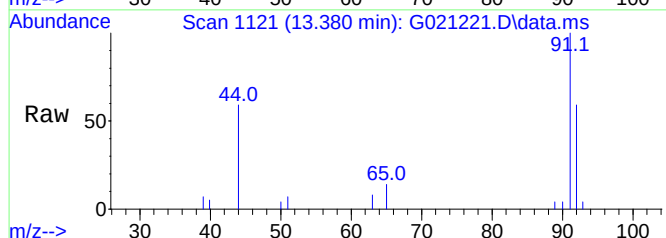
Tgt Ion: 84 Resp: 3453
Ion Ratio Lower Upper
84 100
42 0.0 13.2 53.2#
41 4.9 55.4 95.4#





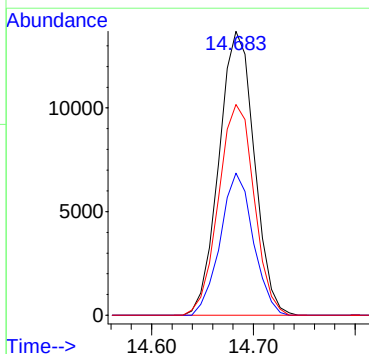
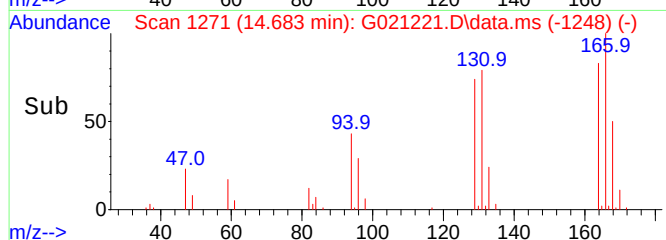
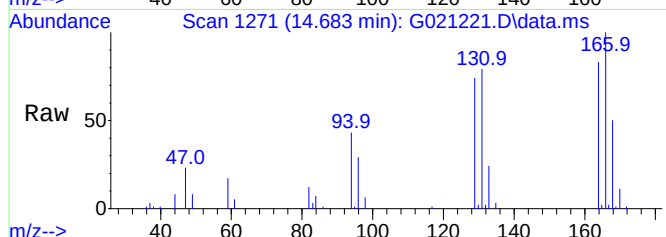
#46
TOLUENE
Concen: 0.05 PPBV
RT: 13.380 min Scan# 1121
Delta R.T. -0.000 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

Tgt Ion: 91 Resp: 6757
Ion Ratio Lower Upper
91 100
92 60.0 39.7 79.7



#50
TETRACHLOROETHENE
Concen: 0.59 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.000 min
Lab File: G021221.D
Acq: 13 Feb 2012 2:56 pm

Tgt Ion: 166 Resp: 33083
Ion Ratio Lower Upper
166 100
168 46.9 27.0 67.0
129 74.9 60.6 100.6



Data File : C:\msdchem\1\data\G021212\G021221.D
Acq On : 13 Feb 2012 2:56 pm
Sample : 12B0323-19 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:54 2012

Vial: 14
Operator: TPH
Inst : SYSG
Multiplr: 1.00

464

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	934307	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	170303	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	615969	9.56	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	119.50%

Target Compounds	Qvalue

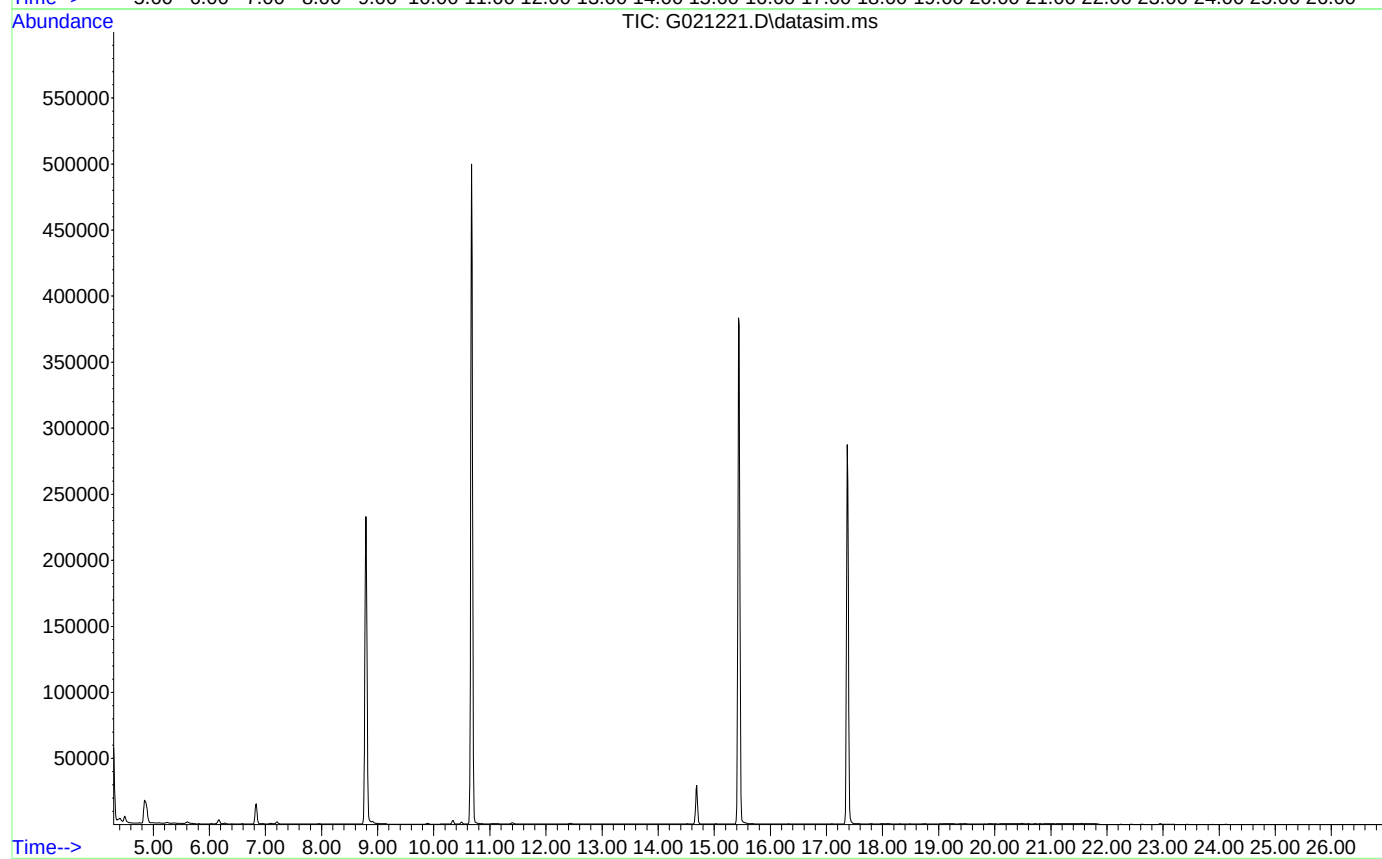
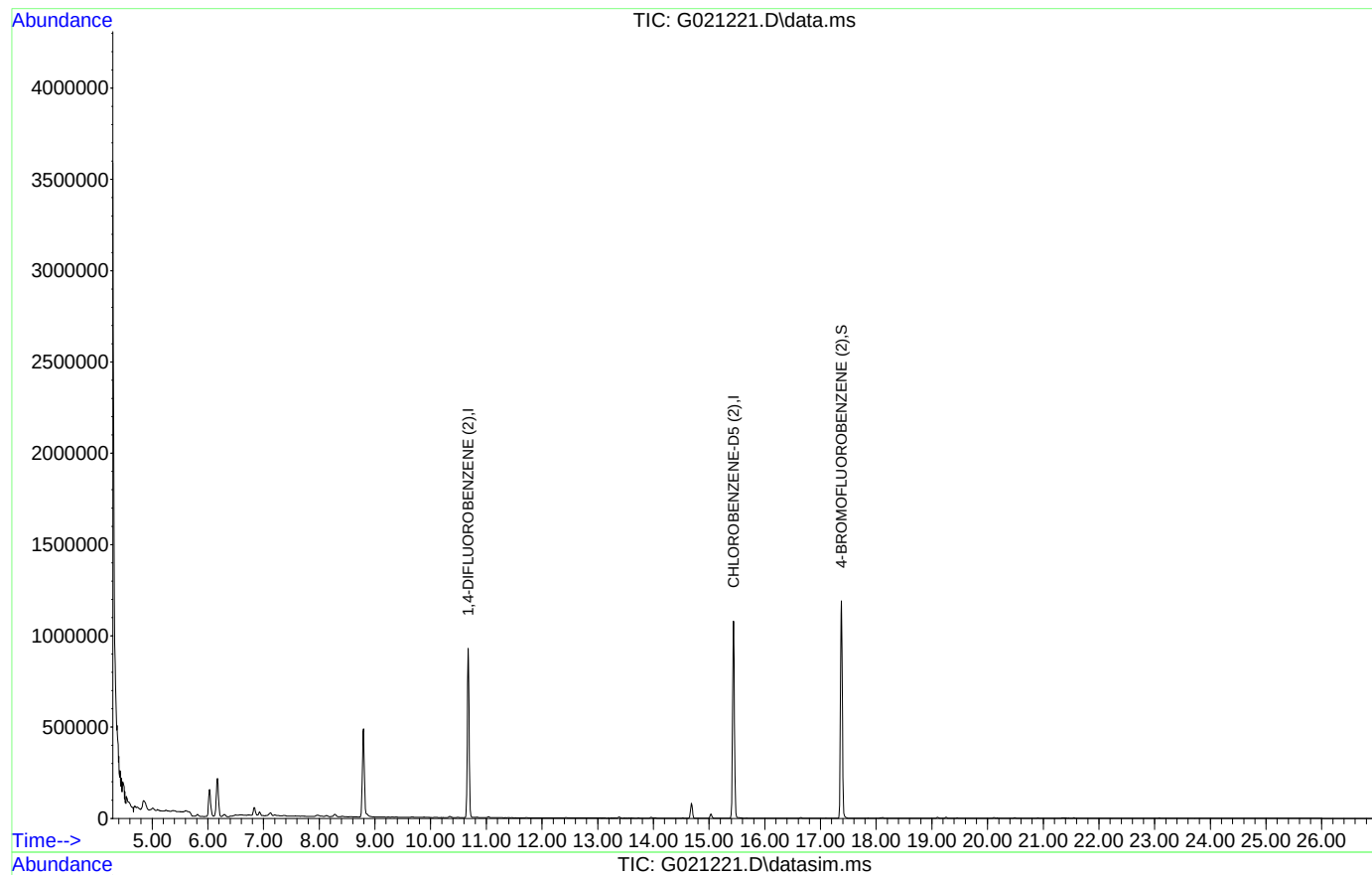
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021221.D
Acq On : 13 Feb 2012 2:56 pm
Sample : 12B0323-19 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:54 2012

Vial: 14
Operator: TPH
Inst : SYSG
Multiplr: 1.00

465

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-IA-09

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-20 File ID: G021420.D
 Sampled: 02/08/12 15:19 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 01:22
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.29	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.069	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.56	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene	0.054	0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.57	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-IA-09

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-20 File ID: G021420.D
 Sampled: 02/08/12 15:19 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 01:22
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	58	0.17	1.4	
100-41-4	Ethylbenzene		0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	1.4	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene		0.011	0.035	
108-88-3	Toluene	0.20	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	9.5	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.084	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene		0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-IA-09

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-20	File ID:	G021420.D		
Sampled:	02/08/12 15:19	Prepared:	02/14/12 10:43	Analyzed:	02/15/12 01:22		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.018	0.070	
95-47-6	o-Xylene		0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021420.D
 Acq On : 15 Feb 2012 1:22 am
 Sample : 12B0323-20 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 11:59:53 2012

Vial: 12
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

469

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.803	49	330148	8.00	PPBV	# 0.02
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	1100026	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	974825	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.376	174	551328	8.30	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.75%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.562	85	52994	0.819	PPBV	Qvalue 100
4) CHLOROMETHANE	4.723	50	14845	0.798	PPBV	99
10) ACROLEIN	5.920	56	3812	0.492	PPBV	96
11) ACETONE	6.033	43	246506	7.677	PPBV	96
12) TRICHLOROFLUOROMETHANE	6.189	101	701219	13.596	PPBV	100
13) ETHANOL	5.588	45	553963	81.988	PPBV	94
15) METHYLENE CHLORIDE	6.849	49	73262	2.037	PPBV	# 74
16) FREON 113	7.110	101	6974	0.119	PPBV	87
21) IPA	6.285	45	220946	6.540	PPBV	90
22) 2-BUTANONE(MEK)	8.265	43	44237	0.680	PPBV	84
25) HEXANE	8.872	41	19687	0.583	PPBV	85
26) ETHYL ACETATE	8.864	61	2635	0.229	PPBV	84
32) BENZENE	10.346	78	56646	0.415	PPBV	93
33) CARBON TETRACHLORIDE	10.504	117	6366	0.098	PPBV	99
40) HEPTANE	11.727	57	5092	0.124	PPBV	91
46) TOLUENE	13.388	91	41385	0.282	PPBV	100
53) M/P-XYLENE	16.177	91	11967	0.082	PPBV	97
64) 1,4-DICHLOROBENZENE	19.575	146	8307	0.077	PPBV	97

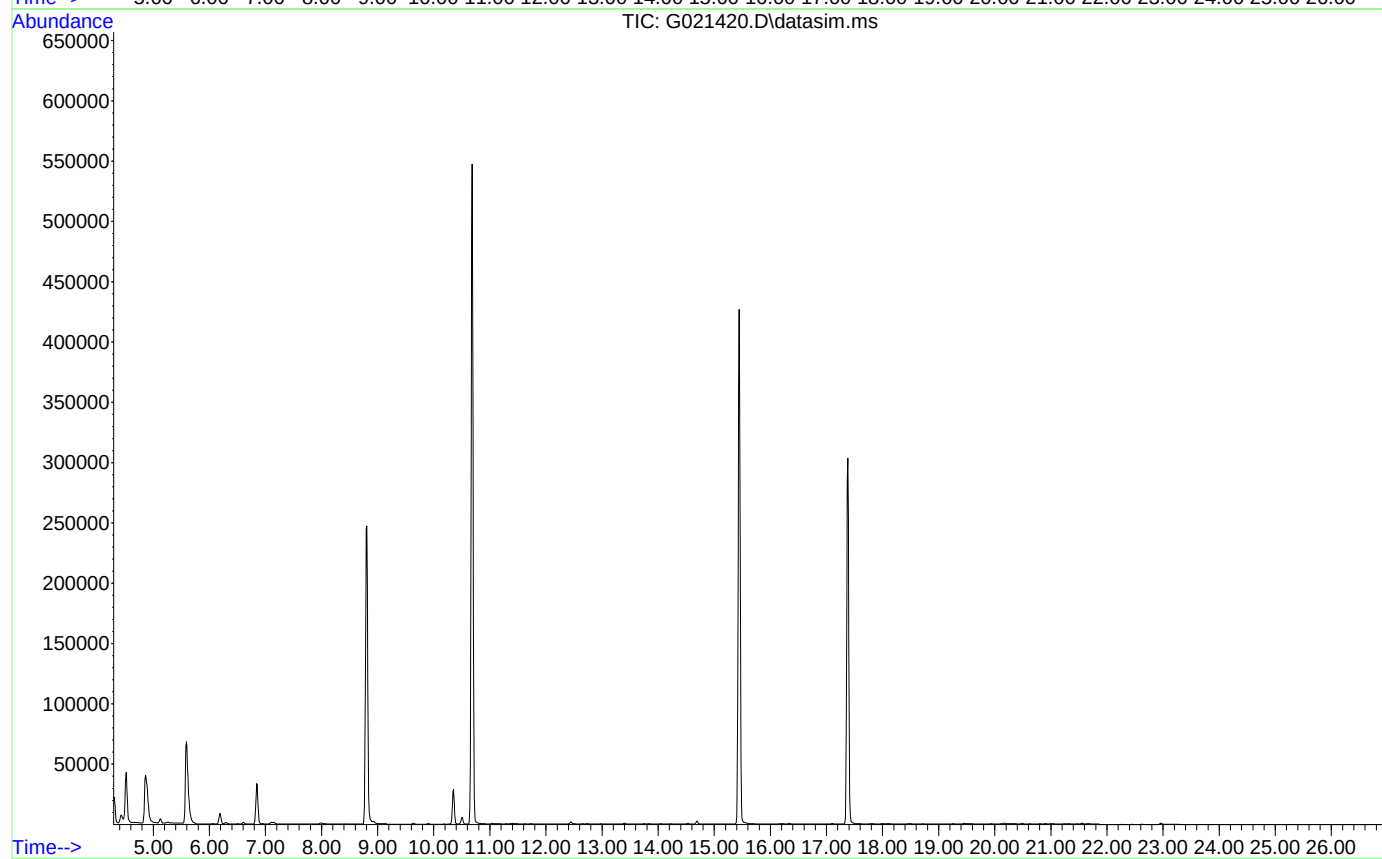
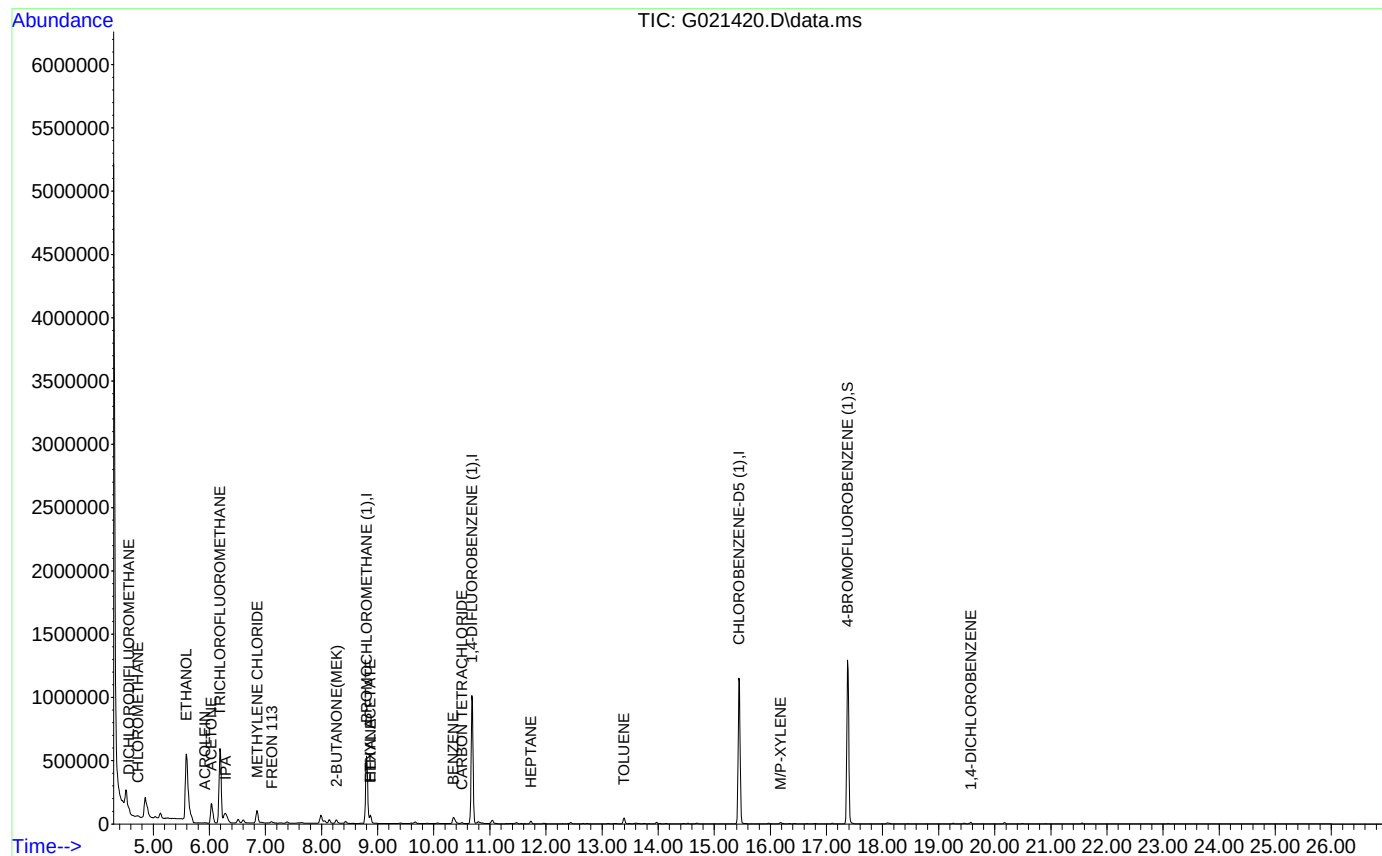
(#) = qualifier out of range (m) = manual integration (+) = signals summed

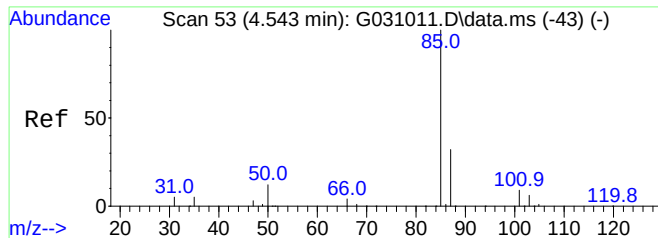
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Acq On : 15 Feb 2012 1:22 am
Sample : 12B0323-20 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 11:59:53 2012

Vial: 12
Operator: WSD
Inst : SYSG
Multiplr: 1.00

470

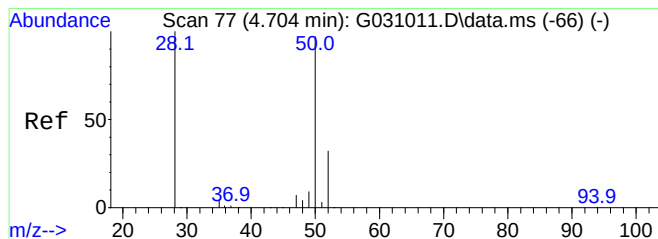
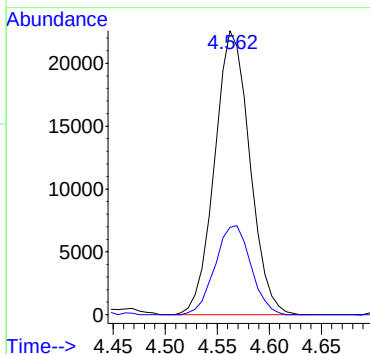
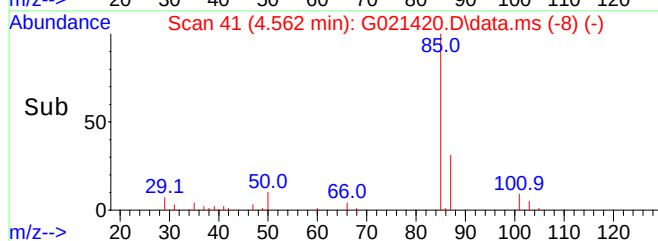
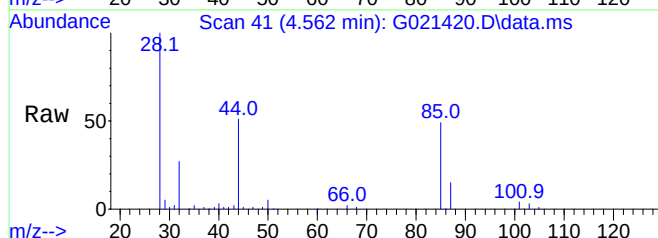
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





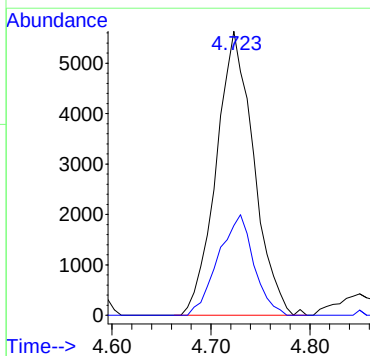
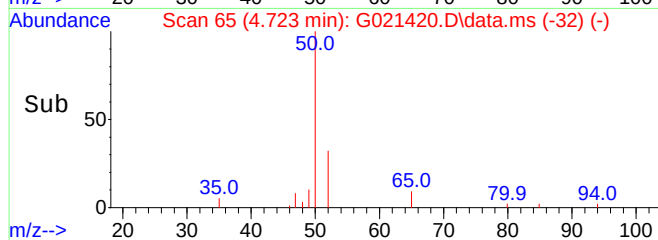
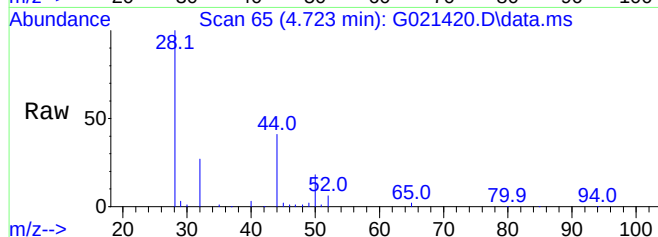
#3
DICHLORODIFLUOROMETHANE
Concen: 0.82 PPBV
RT: 4.562 min Scan# 41
Delta R.T. 0.020 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

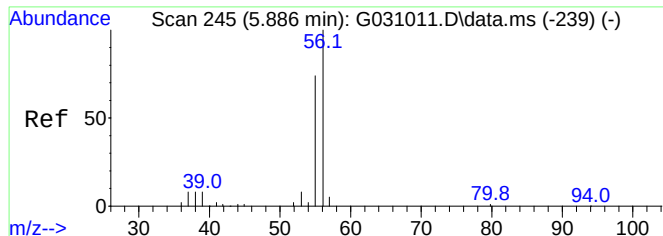
Tgt Ion: 85 Resp: 52994
Ion Ratio Lower Upper
85 100
87 32.0 12.1 52.1



#4
CHLOROMETHANE
Concen: 0.80 PPBV
RT: 4.723 min Scan# 65
Delta R.T. 0.020 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

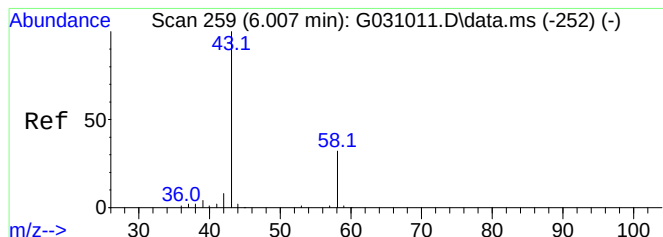
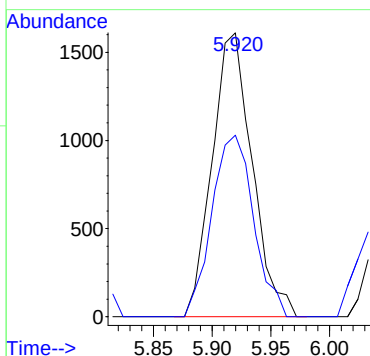
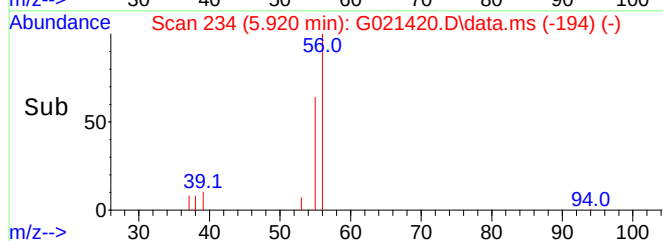
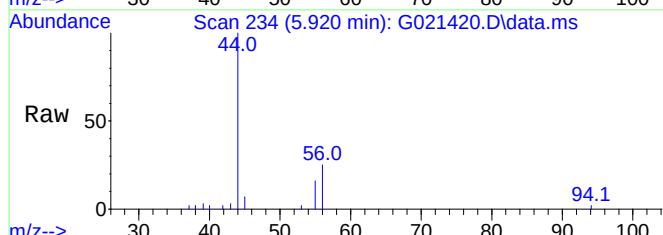
Tgt Ion: 50 Resp: 14845
Ion Ratio Lower Upper
50 100
52 33.6 12.8 52.8





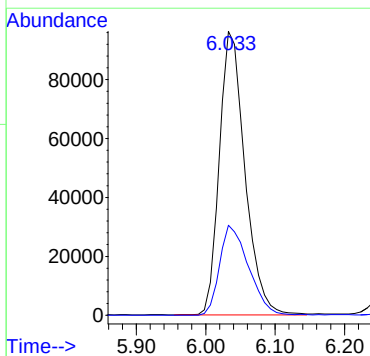
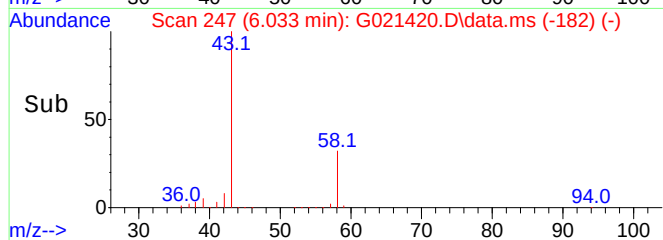
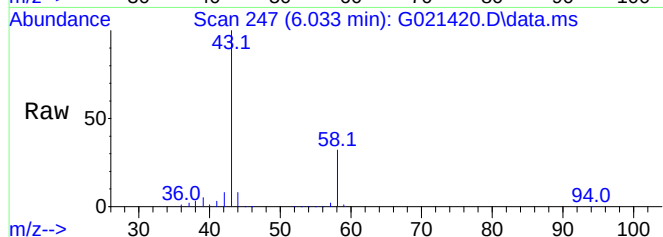
#10
ACROLEIN
Concen: 0.49 PPBV
RT: 5.920 min Scan# 234
Delta R.T. 0.035 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

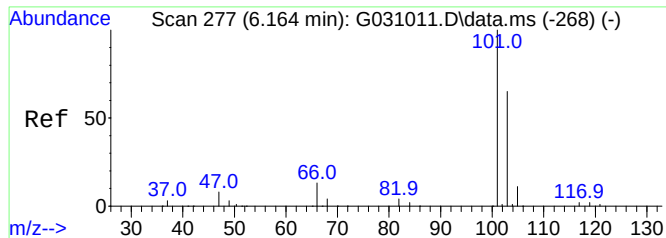
Tgt Ion: 56 Resp: 3812
Ion Ratio Lower Upper
56 100
55 66.5 56.1 84.1



#11
ACETONE
Concen: 7.68 PPBV
RT: 6.033 min Scan# 247
Delta R.T. 0.026 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

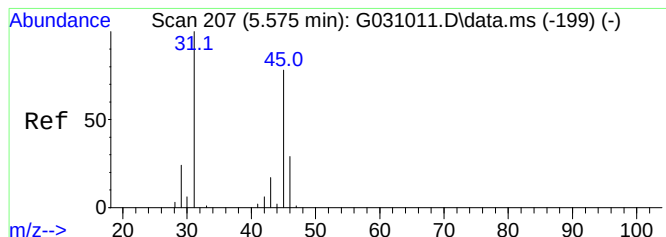
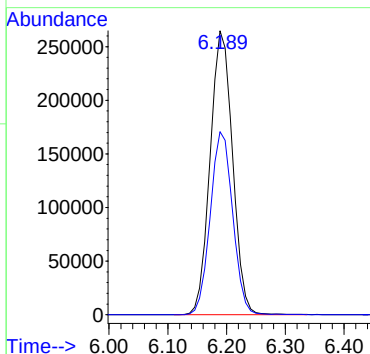
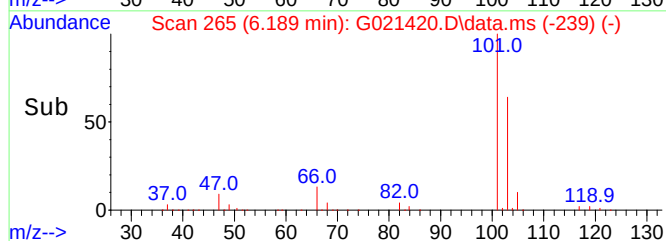
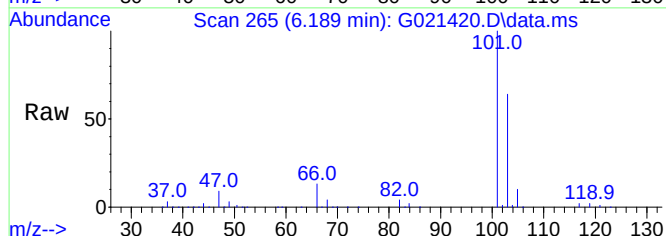
Tgt Ion: 43 Resp: 246506
Ion Ratio Lower Upper
43 100
58 36.1 13.9 53.9





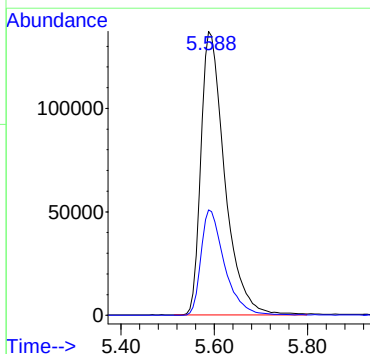
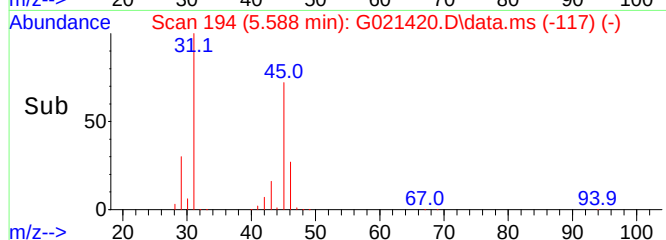
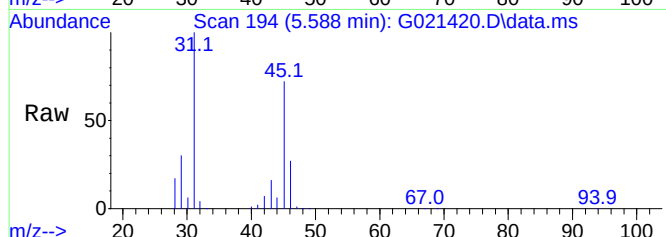
#12
 TRICHLOROFLUOROMETHANE
 Concen: 13.60 PPBV
 RT: 6.189 min Scan# 265
 Delta R.T. 0.025 min
 Lab File: G021420.D
 Acq: 15 Feb 2012 1:22 am

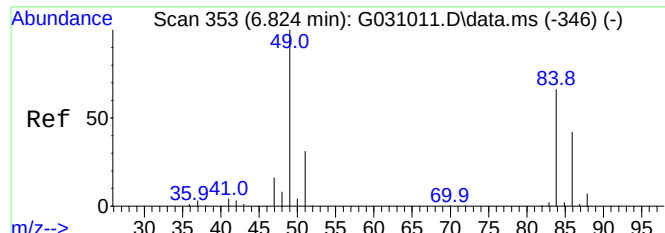
Tgt Ion: 101 Resp: 701219
 Ion Ratio Lower Upper
 101 100
 103 64.5 44.8 84.8



#13
 ETHANOL
 Concen: 81.99 PPBV
 RT: 5.588 min Scan# 194
 Delta R.T. 0.014 min
 Lab File: G021420.D
 Acq: 15 Feb 2012 1:22 am

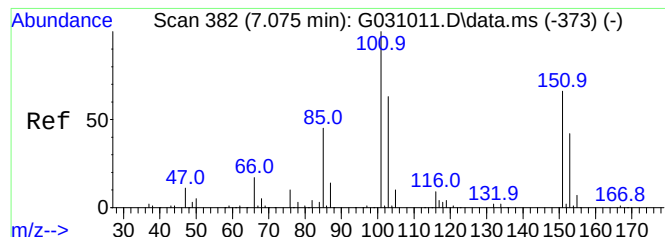
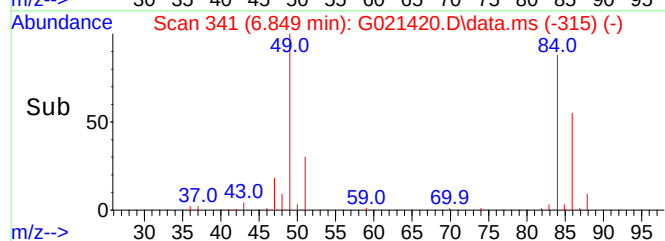
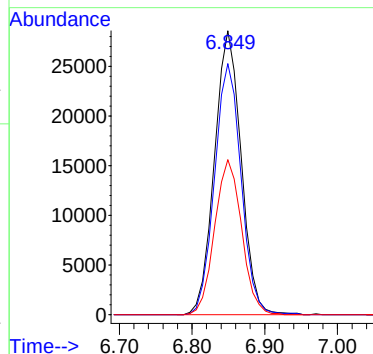
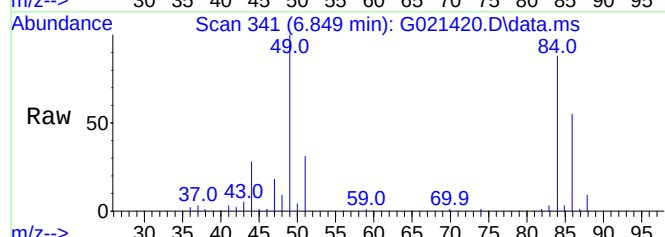
Tgt Ion: 45 Resp: 553963
 Ion Ratio Lower Upper
 45 100
 46 37.2 14.0 54.0





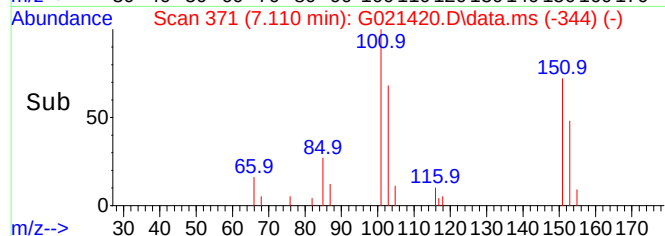
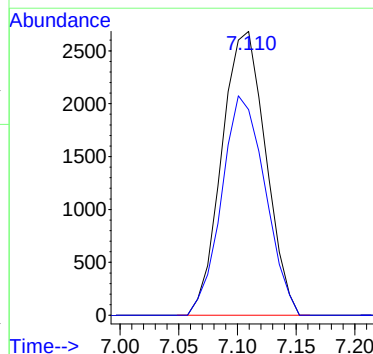
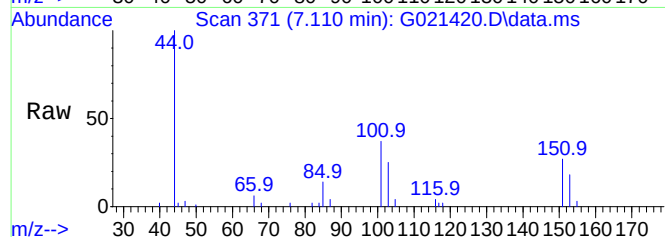
#15
METHYLENE CHLORIDE
Concen: 2.04 PPBV
RT: 6.849 min Scan# 341
Delta R.T. 0.026 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

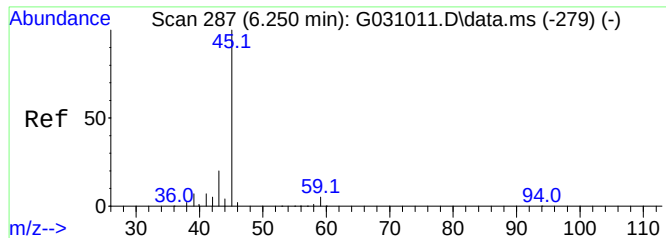
Tgt Ion: 49 Resp: 73262
Ion Ratio Lower Upper
49 100
84 87.9 45.2 85.2#
86 55.1 21.4 61.4



#16
FREON 113
Concen: 0.12 PPBV
RT: 7.110 min Scan# 371
Delta R.T. 0.034 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

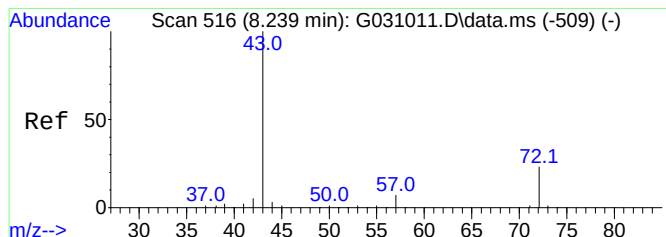
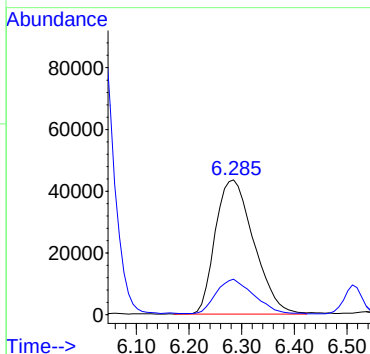
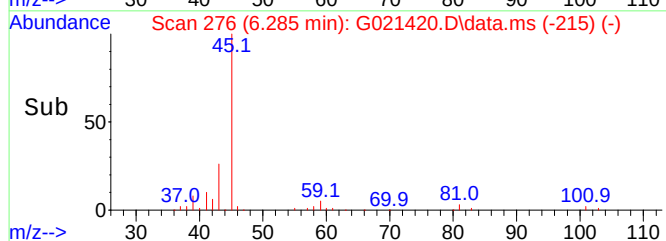
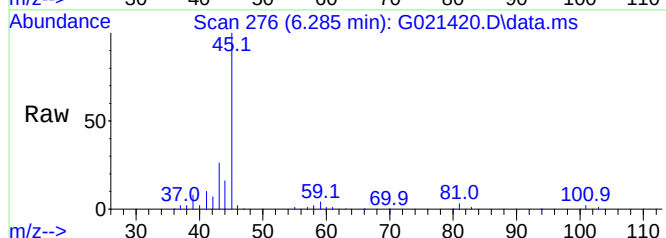
Tgt Ion: 101 Resp: 6974
Ion Ratio Lower Upper
101 100
151 76.6 46.3 86.3





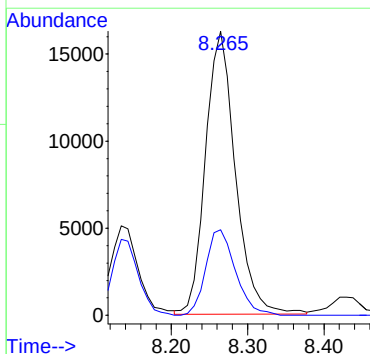
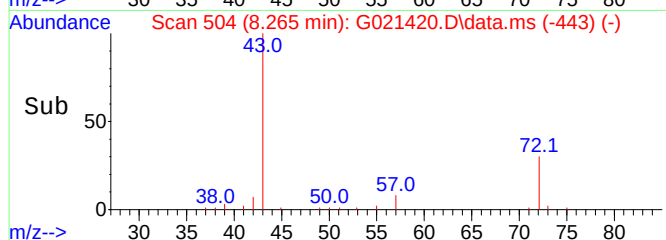
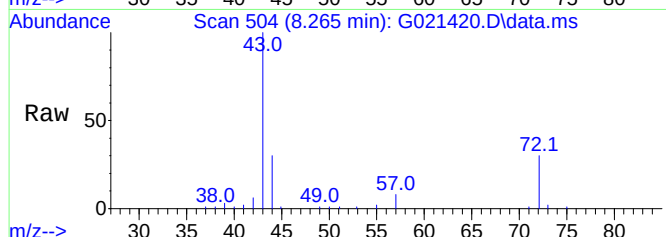
#21
IPA
Concen: 6.54 PPBV
RT: 6.285 min Scan# 276
Delta R.T. 0.035 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

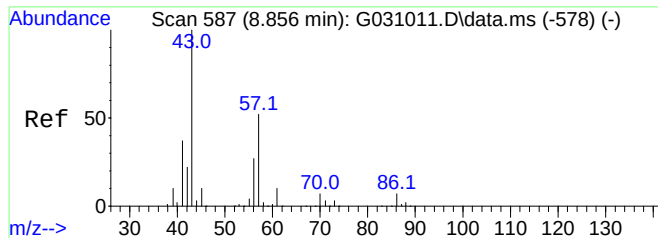
Tgt Ion: 45 Resp: 220946
Ion Ratio Lower Upper
45 100
43 25.2 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.68 PPBV
RT: 8.265 min Scan# 504
Delta R.T. 0.026 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

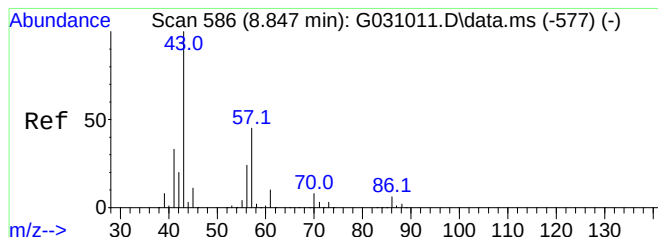
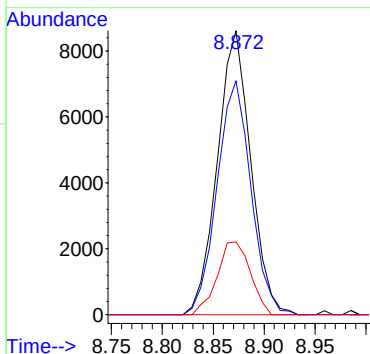
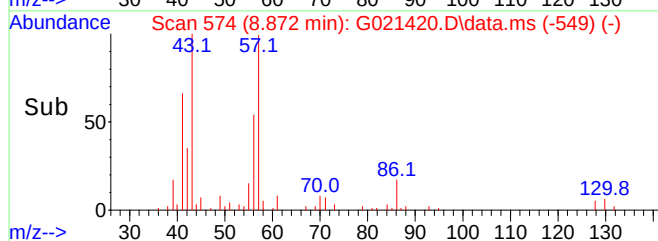
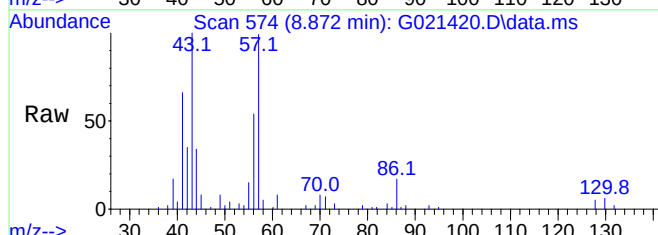
Tgt Ion: 43 Resp: 44237
Ion Ratio Lower Upper
43 100
72 30.1 2.6 42.6





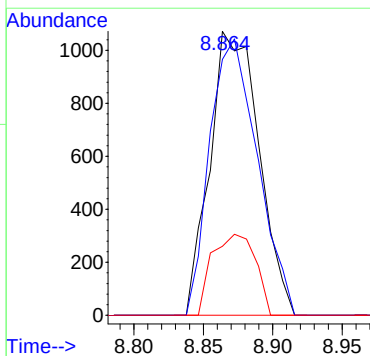
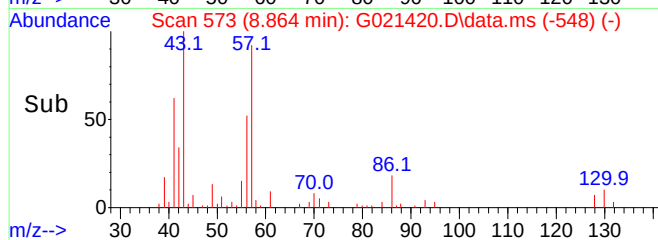
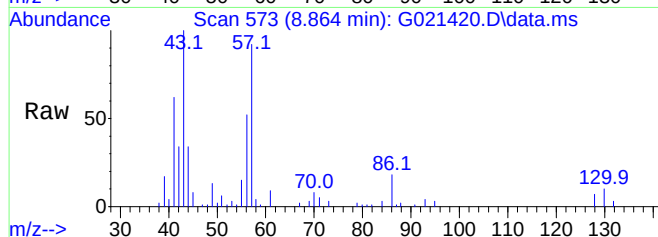
#25
 HEXANE
 Concen: 0.58 PPBV
 RT: 8.872 min Scan# 574
 Delta R.T. 0.017 min
 Lab File: G021420.D
 Acq: 15 Feb 2012 1:22 am

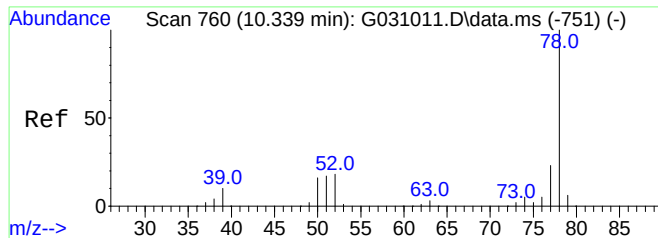
Tgt Ion: 41 Resp: 19687
 Ion Ratio Lower Upper
 41 100
 56 83.5 50.8 90.8
 86 25.5 9.6 29.6



#26
 ETHYL ACETATE
 Concen: 0.23 PPBV
 RT: 8.864 min Scan# 573
 Delta R.T. 0.017 min
 Lab File: G021420.D
 Acq: 15 Feb 2012 1:22 am

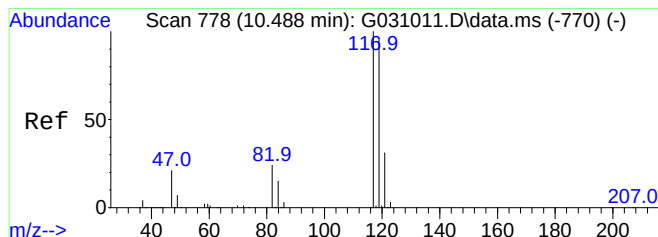
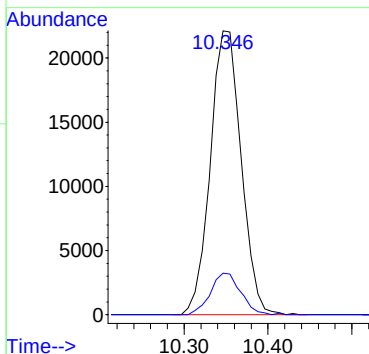
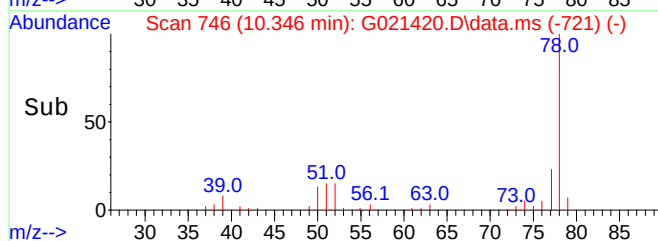
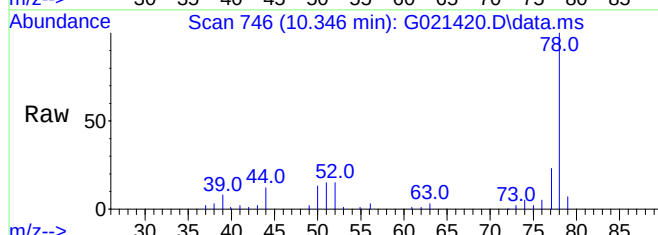
Tgt Ion: 61 Resp: 2635
 Ion Ratio Lower Upper
 61 100
 70 95.0 58.2 98.2
 88 25.2 3.0 43.0





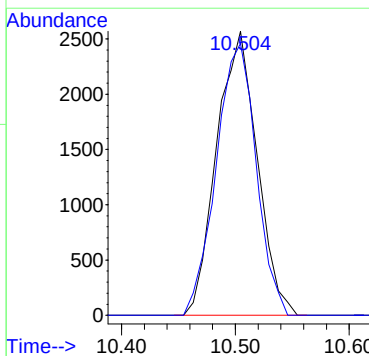
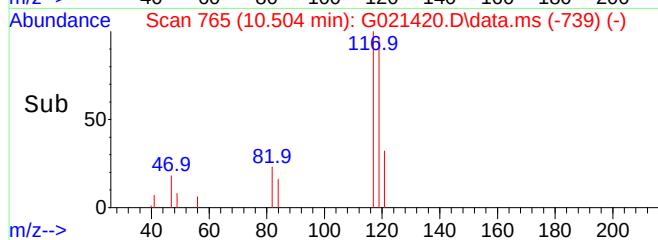
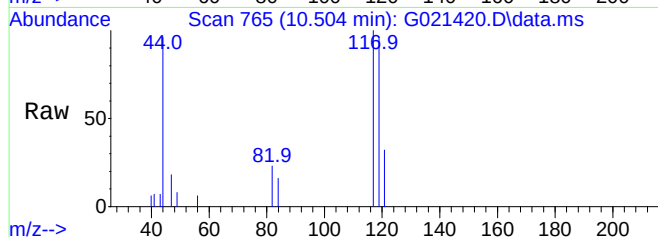
#32
BENZENE
Concen: 0.42 PPBV
RT: 10.346 min Scan# 746
Delta R.T. 0.008 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

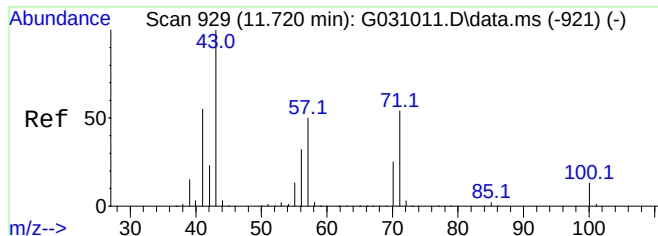
Tgt Ion: 78 Resp: 56646
Ion Ratio Lower Upper
78 100
51 14.4 0.0 37.6



#33
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.504 min Scan# 765
Delta R.T. 0.016 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

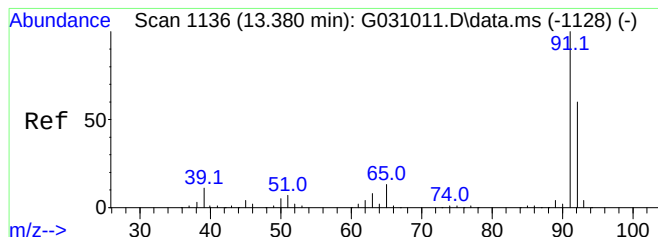
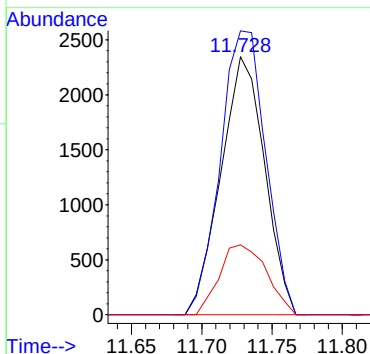
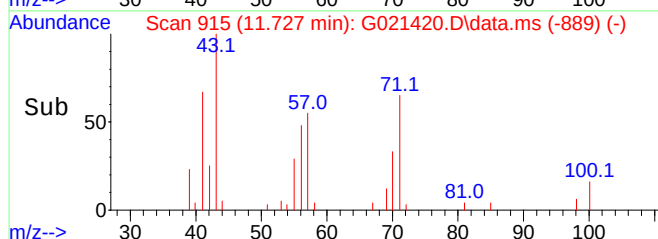
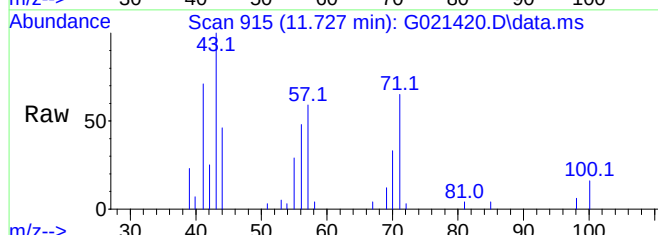
Tgt Ion: 117 Resp: 6366
Ion Ratio Lower Upper
117 100
119 94.3 75.4 115.4





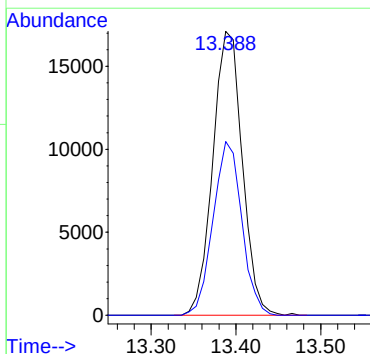
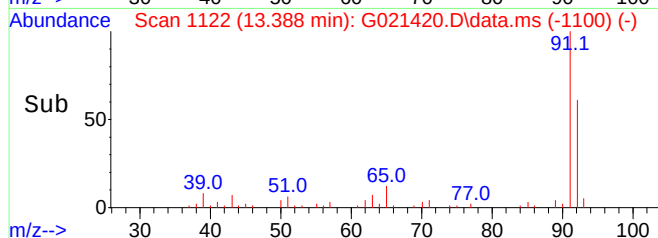
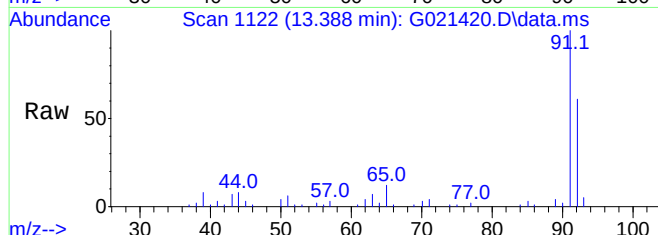
#40
HEPTANE
Concen: 0.12 PPBV
RT: 11.727 min Scan# 915
Delta R.T. 0.007 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

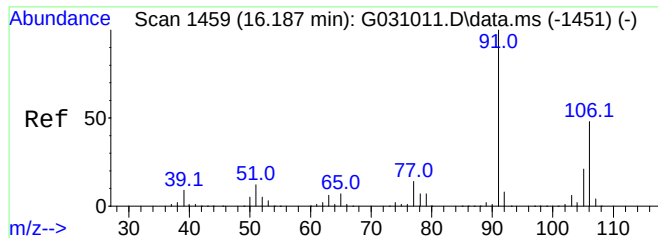
Tgt Ion: 57 Resp: 5092
Ion Ratio Lower Upper
57 100
71 113.9 83.8 123.8
100 29.2 5.4 45.4



#46
TOLUENE
Concen: 0.28 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

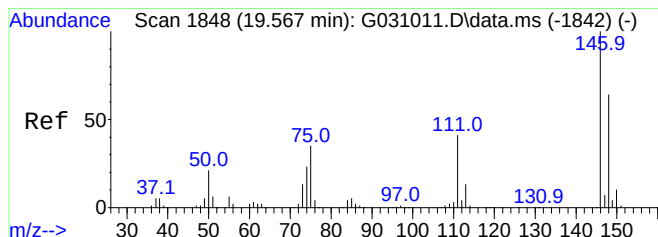
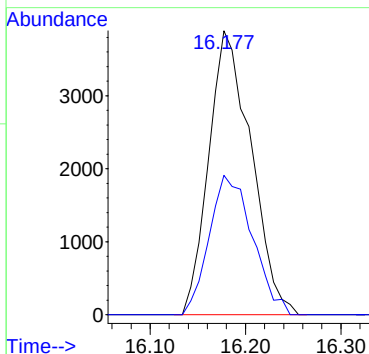
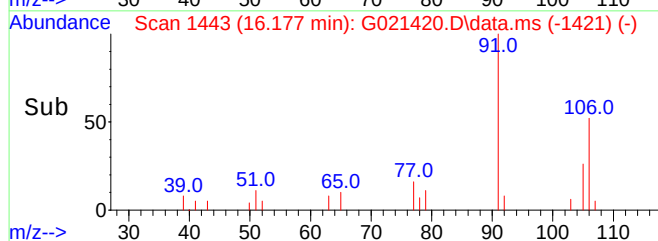
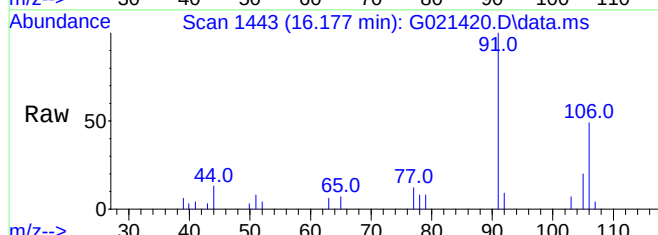
Tgt Ion: 91 Resp: 41385
Ion Ratio Lower Upper
91 100
92 59.4 39.7 79.7





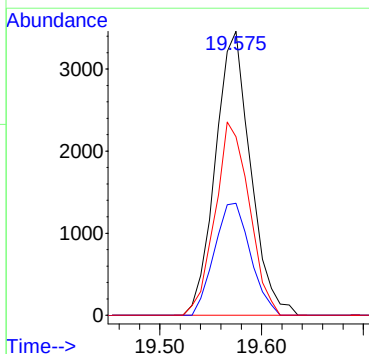
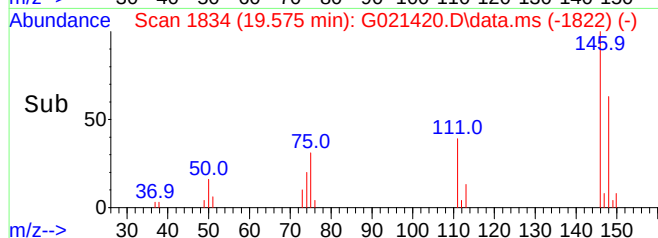
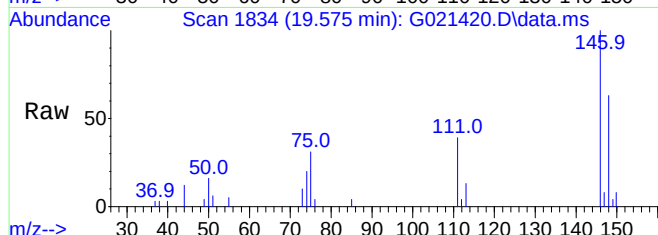
#53
M/P-XYLENE
Concen: 0.08 PPBV
RT: 16.177 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

Tgt Ion: 91 Resp: 11967
Ion Ratio Lower Upper
91 100
106 50.2 28.3 68.3



#64
1,4-DICHLOROBENZENE
Concen: 0.08 PPBV
RT: 19.575 min Scan# 1834
Delta R.T. 0.008 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

Tgt Ion: 146 Resp: 8307
Ion Ratio Lower Upper
146 100
111 40.6 21.2 61.2
148 66.4 43.1 83.1



Data File : C:\msdchem\1\data\G021412\G021420.D
 Acq On : 15 Feb 2012 1:22 am
 Sample : 12B0323-20 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:10:27 2012

Vial: 12
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

480

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	1099389	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.439	54	182901	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.376	95	695260	10.05	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	125.63%
Target Compounds						
4) TERT-BUTYL ALCOHOL	6.936	59	7784	0.122	PPBV	75
5) 2,2,4-TRIMETHYLPENTANE	11.476	57	7879	0.050	PPBV	78

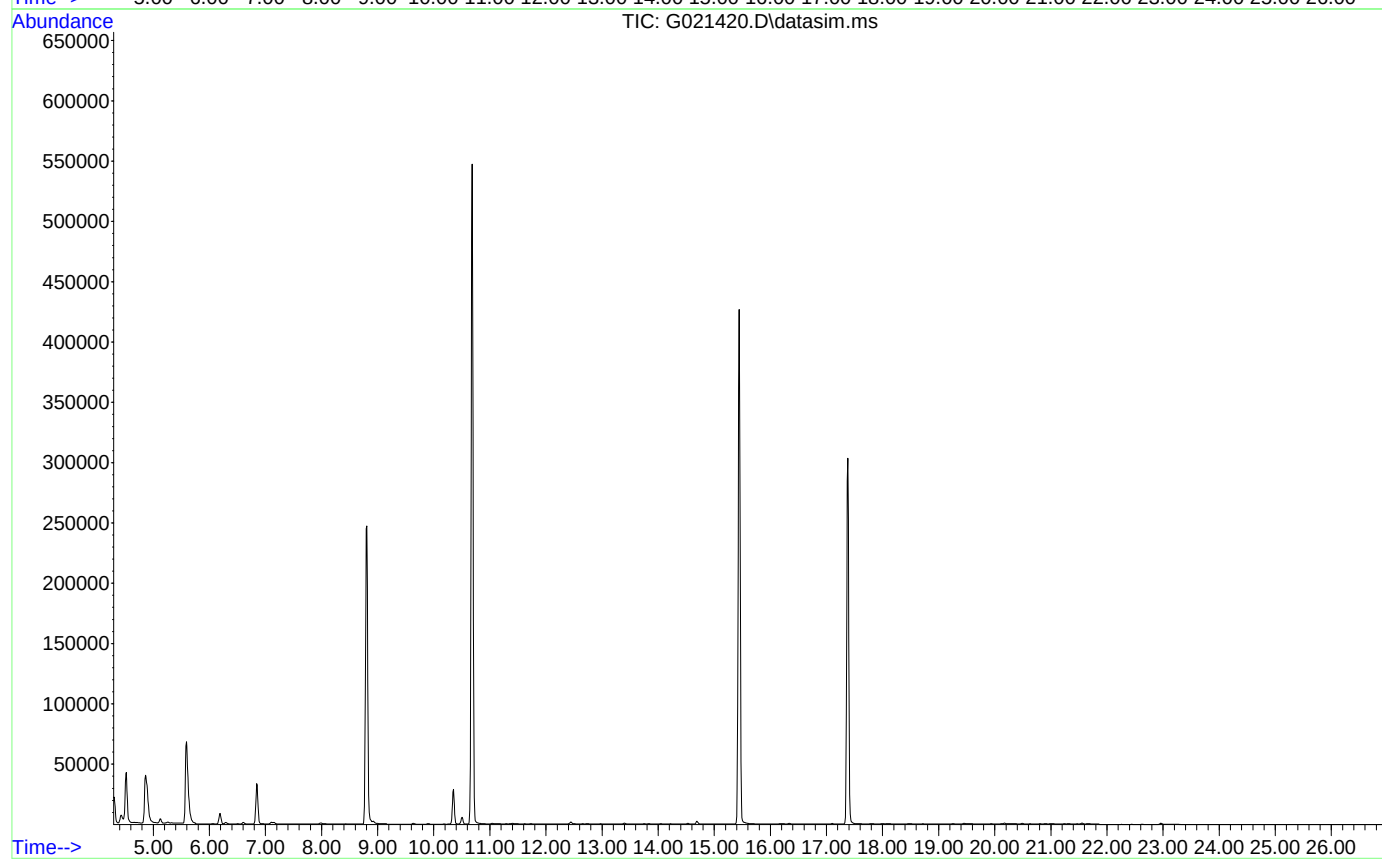
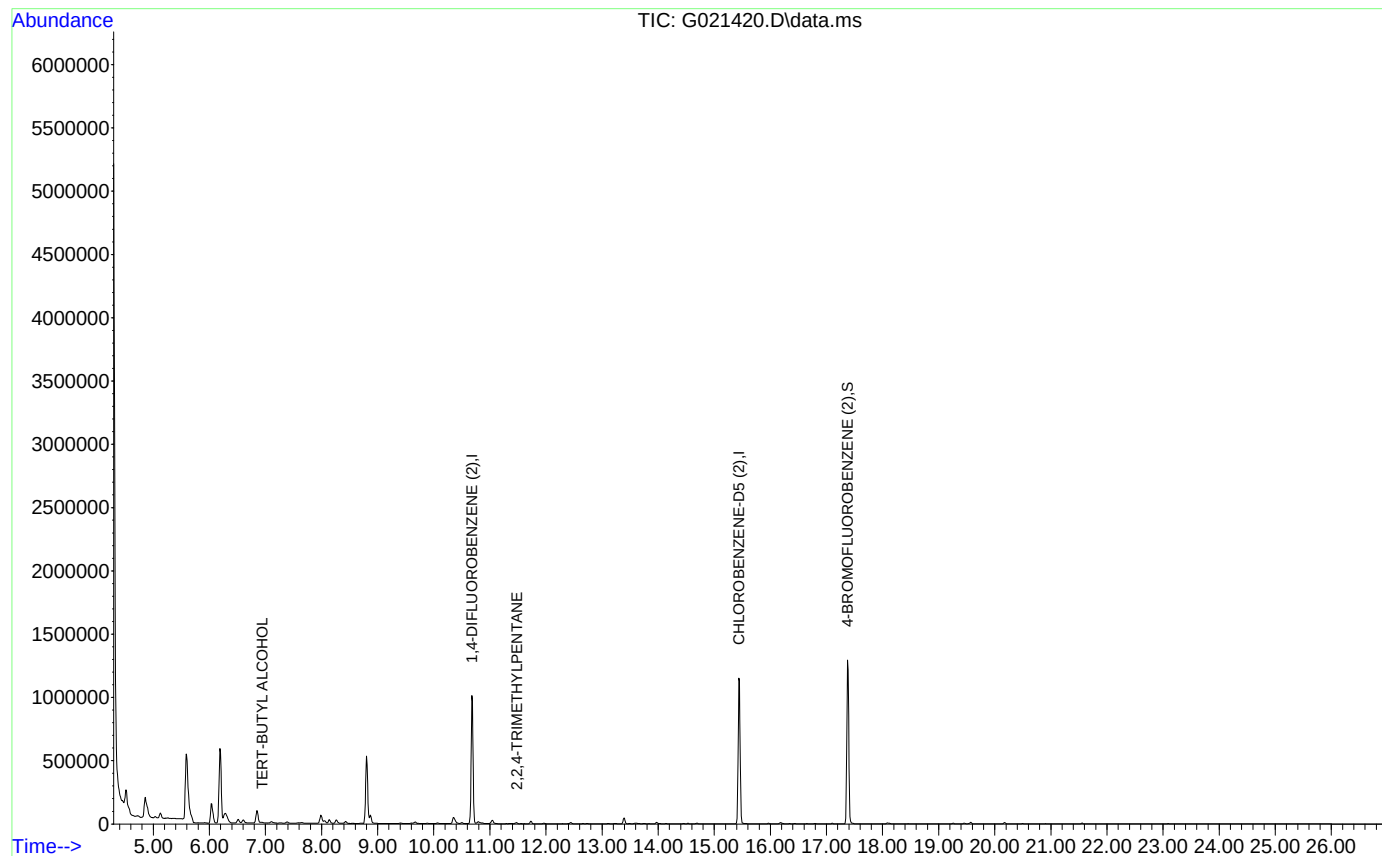
(#) = qualifier out of range (m) = manual integration (+) = signals summed

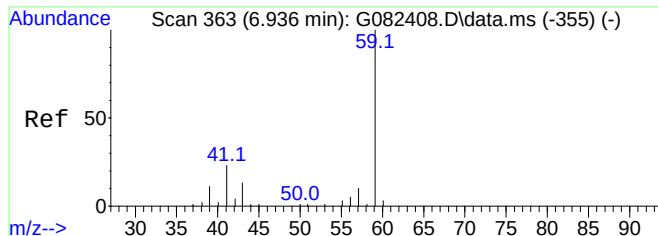
Data File : C:\msdchem\1\data\G021412\G021420.D
Acq On : 15 Feb 2012 1:22 am
Sample : 12B0323-20 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:10:27 2012

Vial: 12
Operator: WSD
Inst : SYSG
Multiplr: 1.00

481

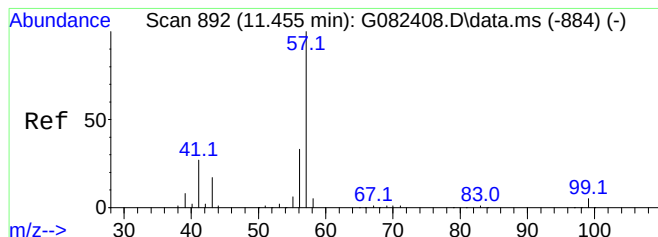
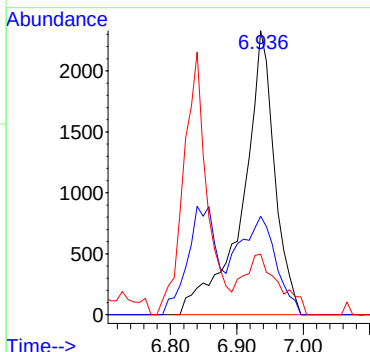
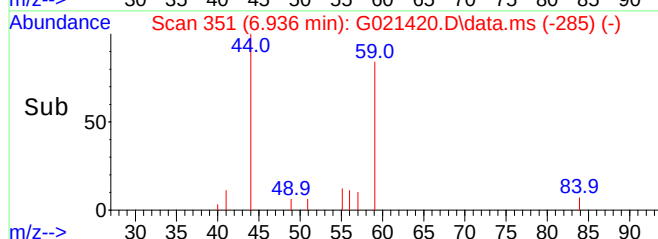
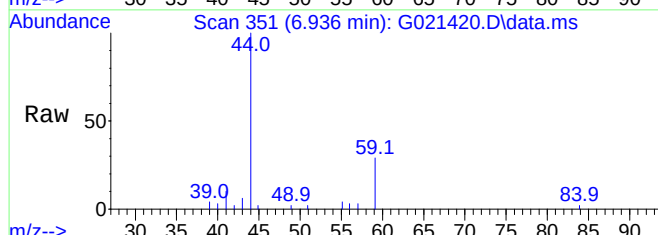
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





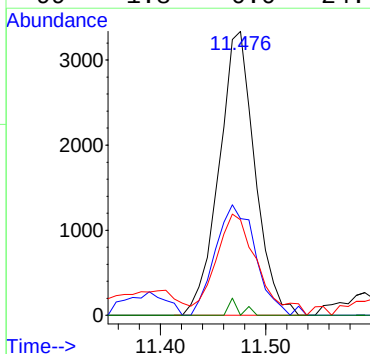
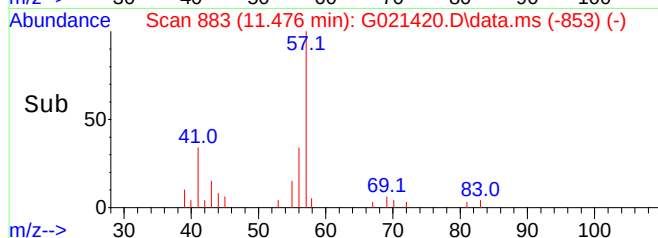
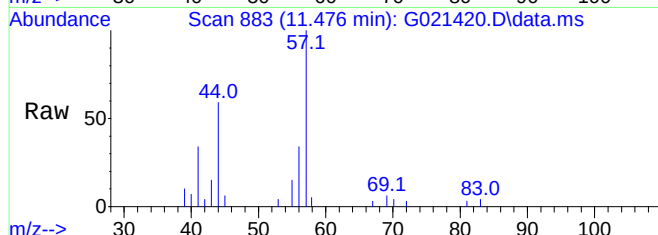
#4
TERT-BUTYL ALCOHOL
Concen: 0.12 PPBV
RT: 6.936 min Scan# 351
Delta R.T. 0.076 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

Tgt Ion: 59 Resp: 7784
Ion Ratio Lower Upper
59 100
41 40.2 7.9 47.9
43 23.7 0.0 32.8



#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 11.476 min Scan# 883
Delta R.T. 0.036 min
Lab File: G021420.D
Acq: 15 Feb 2012 1:22 am

Tgt Ion: 57 Resp: 7879
Ion Ratio Lower Upper
57 100
56 44.1 13.7 53.7
41 40.9 5.8 45.8
99 1.8 0.0 24.7



1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-SS-10

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-21 File ID: G021222.D
 Sampled: 02/08/12 15:27 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 15:37
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.48	0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)		0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform	0.25	0.036	0.10	
74-87-3	Chloromethane		0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.84	0.042	0.10	
75-34-3	1,1-Dichloroethane		0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-SS-10

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-21 File ID: G021222.D
 Sampled: 02/08/12 15:27 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 15:37
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol	9.7	0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride		0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	0.99	0.030	0.10	
108-88-3	Toluene	0.29	0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane		0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene		0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	19	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-SS-10

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-21	File ID:	G021222.D		
Sampled:	02/08/12 15:27	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 15:37		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021222.D
 Acq On : 13 Feb 2012 3:37 pm
 Sample : 12B0323-21 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 13 16:15:32 2012

Vial: 15
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

486

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.803	49	308077	8.00	PPBV	# 0.02
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	962463	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	867153	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	486466	8.24	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.00%
Target Compounds						
2) PROPENE	4.482	41	80265	3.973	PPBV	Qvalue 94
3) DICHLORODIFLUOROMETHANE	4.549	85	25303	0.419	PPBV	99
10) ACROLEIN	5.911	56	1632	0.226	PPBV	88
11) ACETONE	6.033	43	705860	23.559	PPBV	96
12) TRICHLOROFLUOROMETHANE	6.180	101	453170	9.416	PPBV	99
13) ETHANOL	5.621	45	30521	4.841	PPBV	92
15) METHYLENE CHLORIDE	6.849	49	6177	0.184	PPBV	# 74
17) CARBON DISULFIDE	7.127	76	44984	0.525	PPBV	84
22) 2-BUTANONE(MEK)	8.273	43	63577	1.047	PPBV	87
24) VINYL ACETATE	7.987	43	15679	0.177	PPBV	79
25) HEXANE	8.872	41	3106	0.099	PPBV	# 92
27) CHLOROFORM	8.916	83	7749	0.126	PPBV	97
32) BENZENE	10.346	78	28696	0.240	PPBV	96
46) TOLUENE	13.388	91	18892	0.145	PPBV	99
50) TETRACHLOROETHENE	14.683	166	27741	0.493	PPBV	96

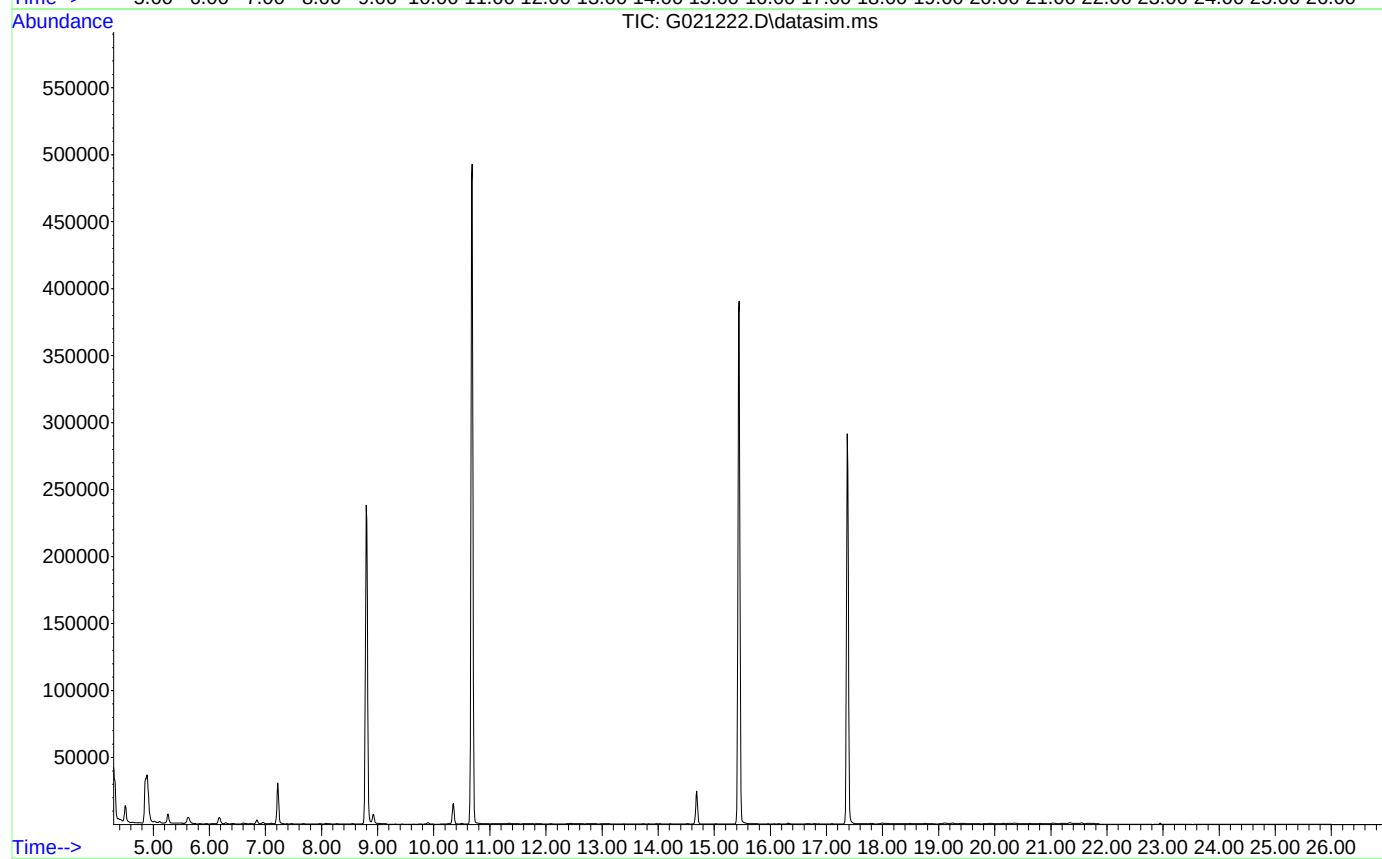
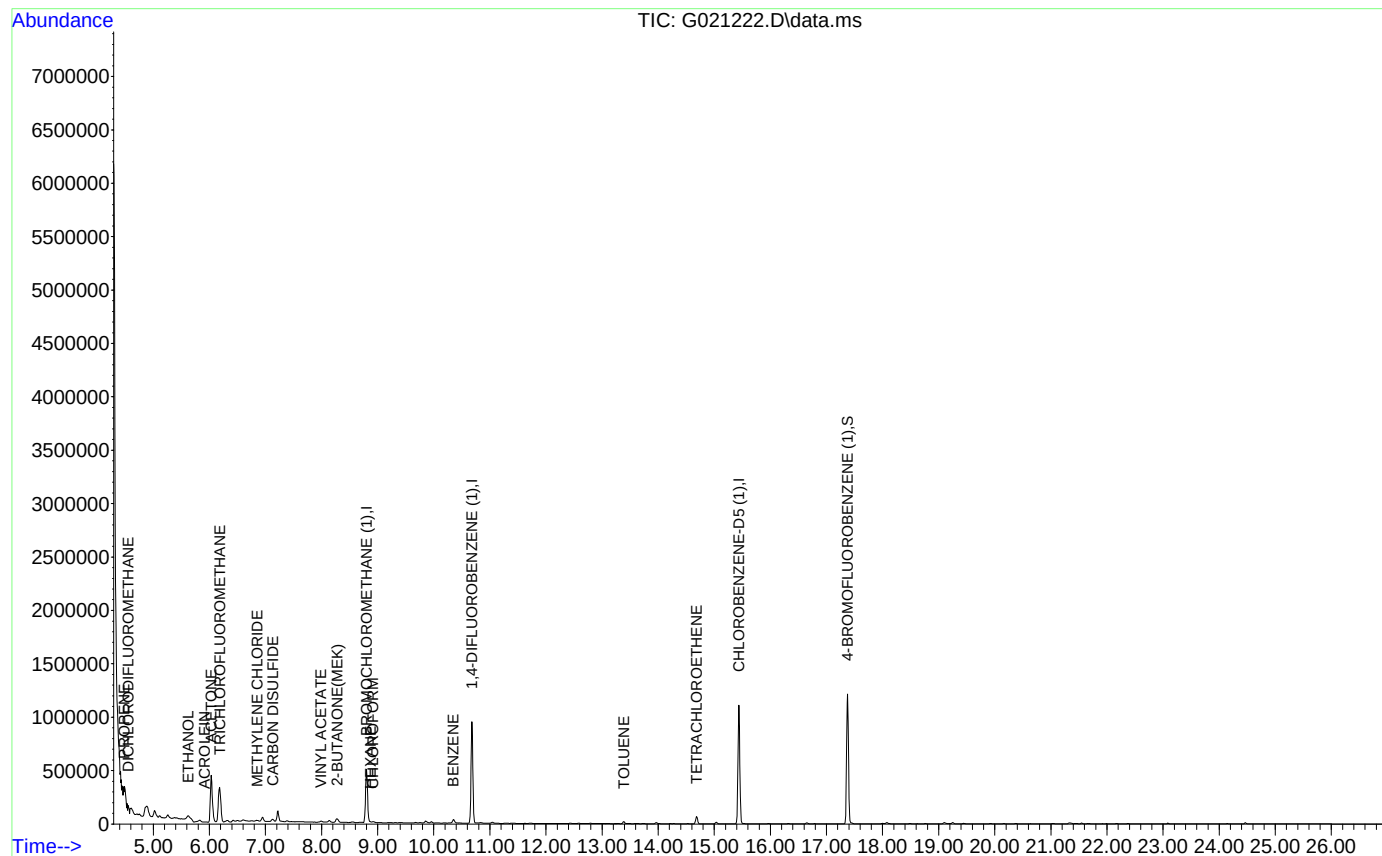
(#) = qualifier out of range (m) = manual integration (+) = signals summed

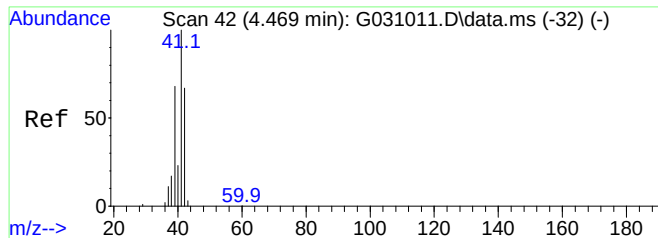
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Acq On : 13 Feb 2012 3:37 pm
Sample : 12B0323-21 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 13 16:15:32 2012

Vial: 15
Operator: TPH
Inst : SYSG
Multiplr: 1.00

487

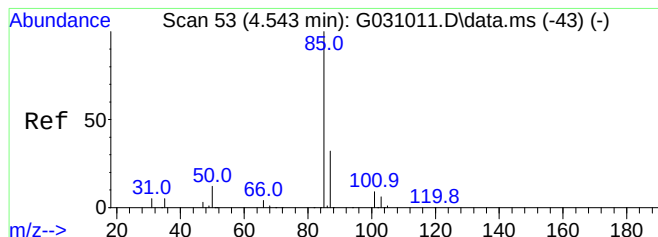
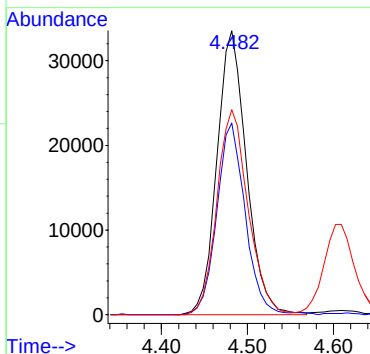
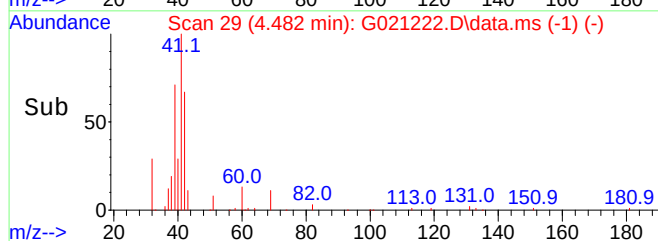
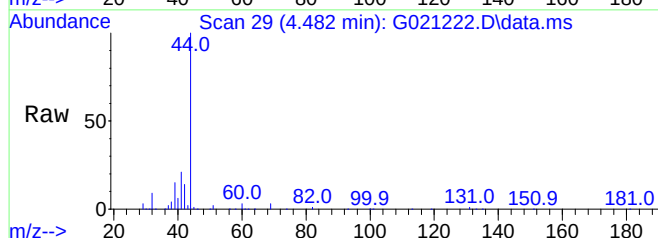
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Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





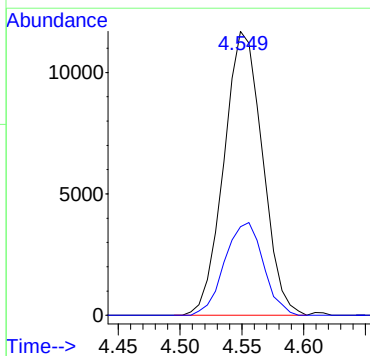
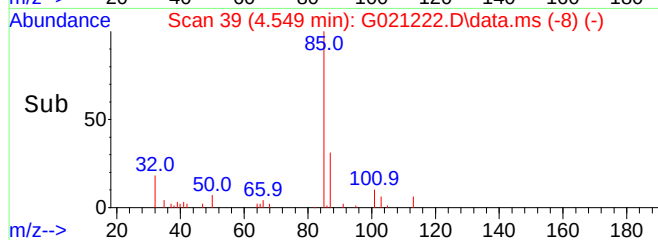
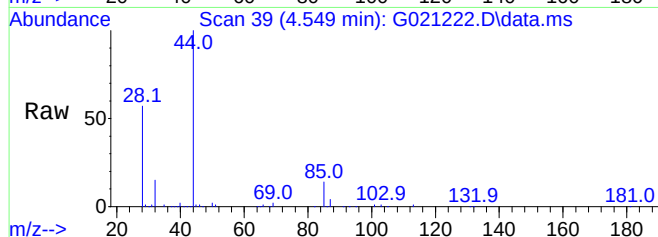
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PROPENE
Concen: 3.97 PPBV
RT: 4.482 min Scan# 29
Delta R.T. 0.014 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

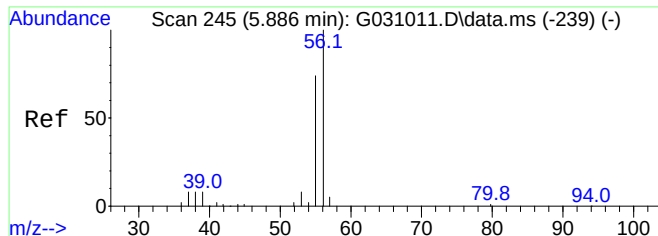
Tgt Ion: 41 Resp: 80265
Ion Ratio Lower Upper
41 100
42 64.6 46.4 86.4
39 76.3 48.8 88.8



#3
DICHLORODIFLUOROMETHANE
Concen: 0.42 PPBV
RT: 4.549 min Scan# 39
Delta R.T. 0.006 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

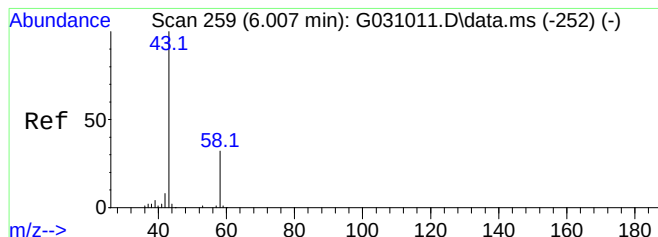
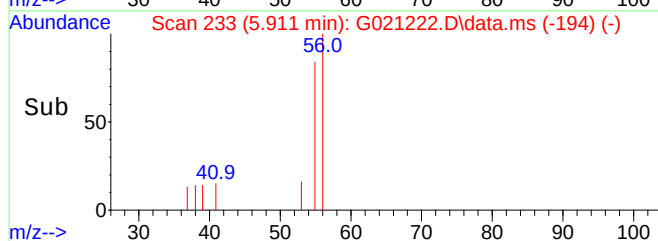
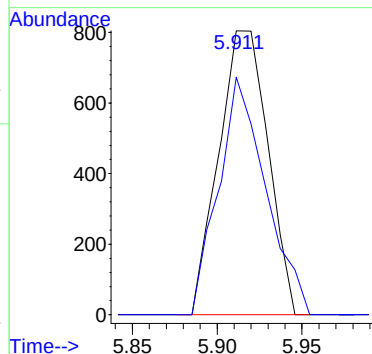
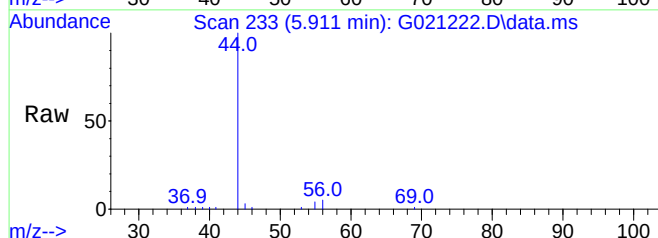
Tgt Ion: 85 Resp: 25303
Ion Ratio Lower Upper
85 100
87 32.8 12.1 52.1





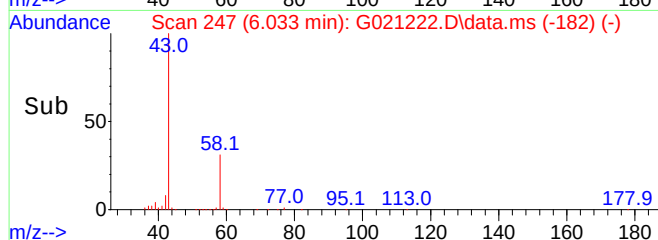
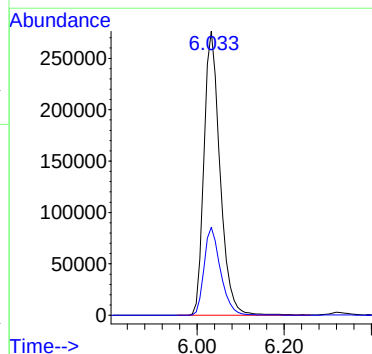
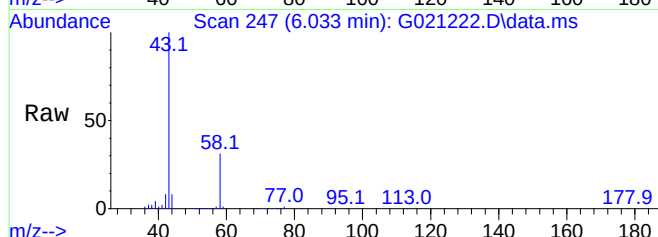
#10
ACROLEIN
Concen: 0.23 PPBV
RT: 5.911 min Scan# 233
Delta R.T. 0.026 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

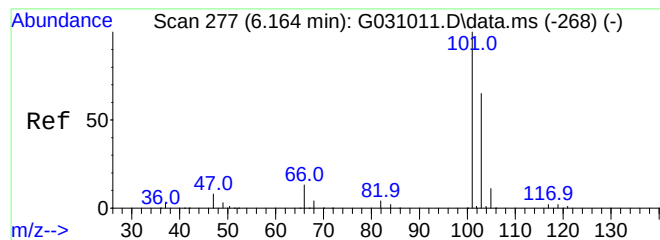
Tgt Ion: 56 Resp: 1632
Ion Ratio Lower Upper
56 100
55 80.2 56.1 84.1



#11
ACETONE
Concen: 23.56 PPBV
RT: 6.033 min Scan# 247
Delta R.T. 0.026 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

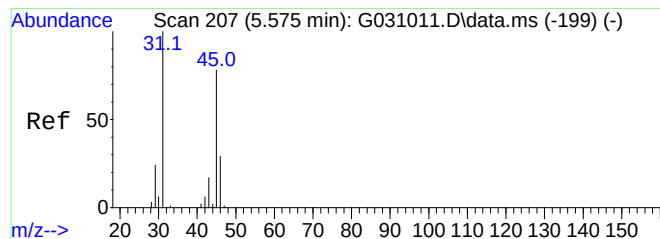
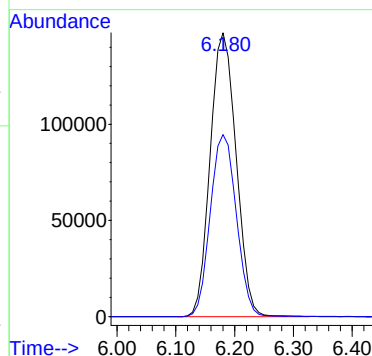
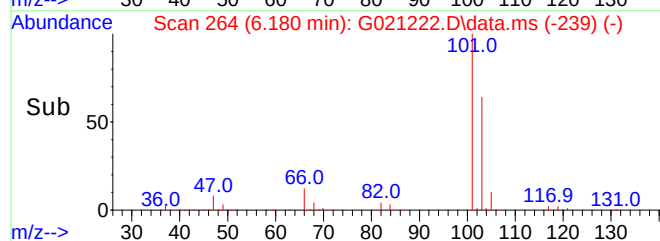
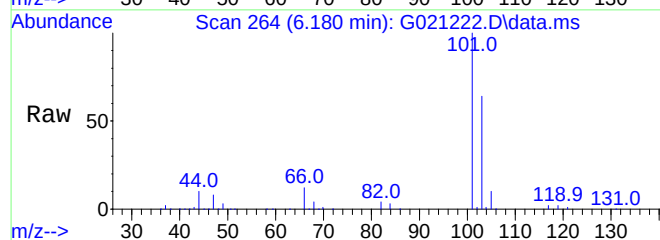
Tgt Ion: 43 Resp: 705860
Ion Ratio Lower Upper
43 100
58 31.7 13.9 53.9





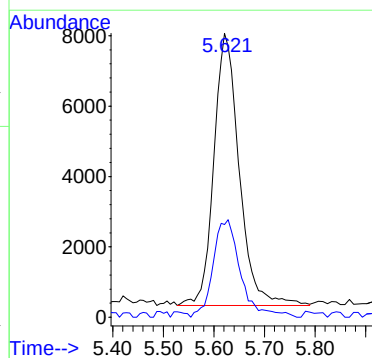
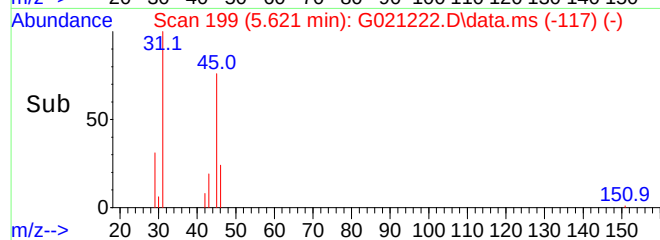
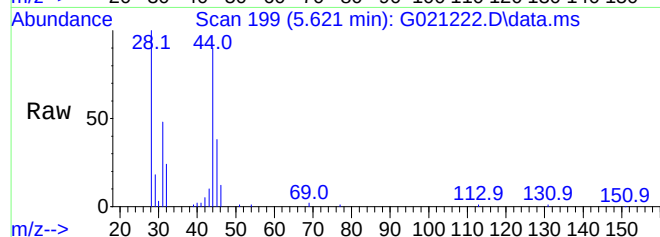
#12
 TRICHLOROFLUOROMETHANE
 Concen: 9.42 PPBV
 RT: 6.180 min Scan# 264
 Delta R.T. 0.017 min
 Lab File: G021222.D
 Acq: 13 Feb 2012 3:37 pm

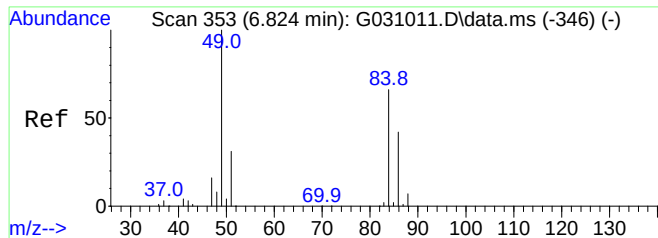
Tgt Ion: 101 Resp: 453170
 Ion Ratio Lower Upper
 101 100
 103 64.3 44.8 84.8



#13
 ETHANOL
 Concen: 4.84 PPBV
 RT: 5.621 min Scan# 199
 Delta R.T. 0.047 min
 Lab File: G021222.D
 Acq: 13 Feb 2012 3:37 pm

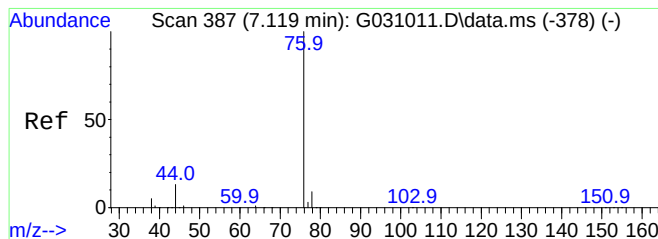
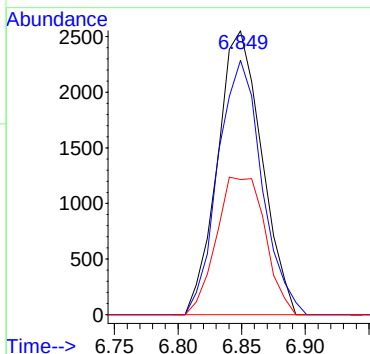
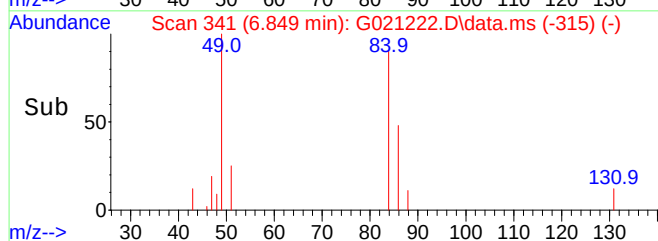
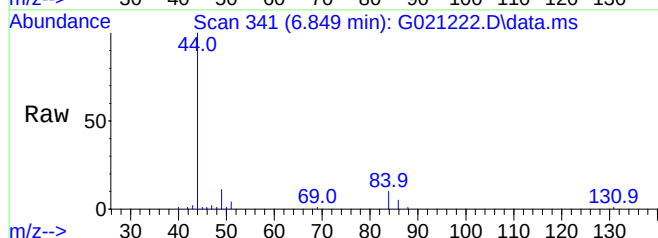
Tgt Ion: 45 Resp: 30521
 Ion Ratio Lower Upper
 45 100
 46 38.6 14.0 54.0





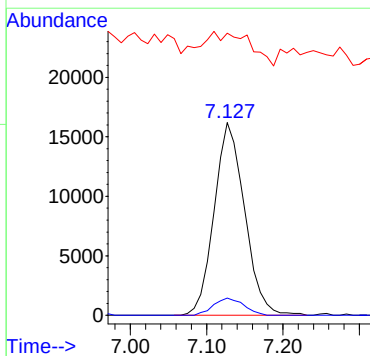
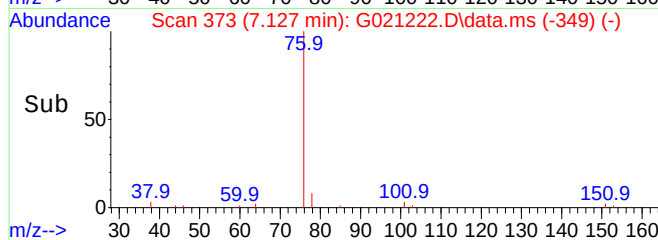
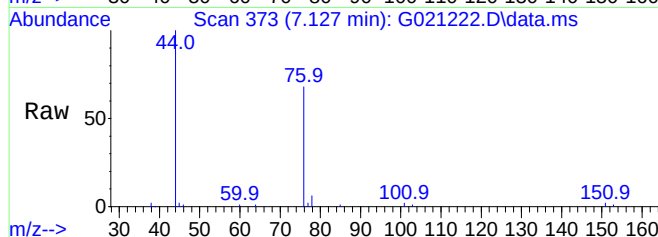
#15
METHYLENE CHLORIDE
Concen: 0.18 PPBV
RT: 6.849 min Scan# 341
Delta R.T. 0.026 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

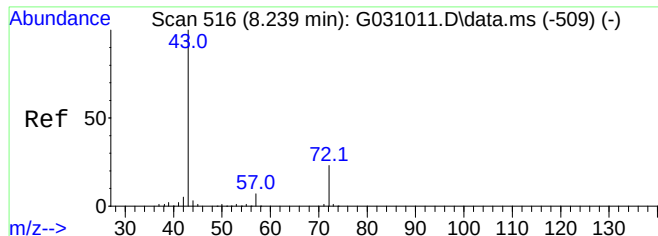
Tgt Ion: 49 Resp: 6177
Ion Ratio Lower Upper
49 100
84 88.8 45.2 85.2#
86 53.4 21.4 61.4



#17
CARBON DISULFIDE
Concen: 0.52 PPBV
RT: 7.127 min Scan# 373
Delta R.T. 0.008 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

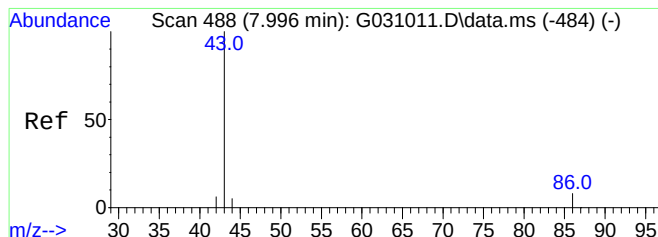
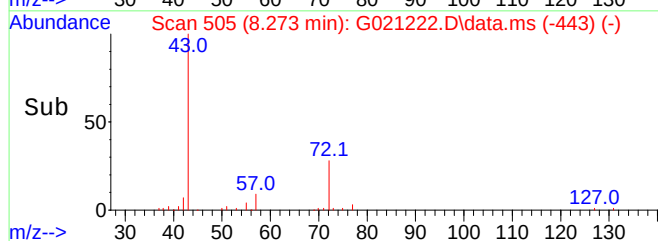
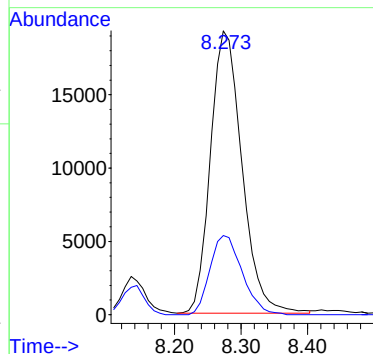
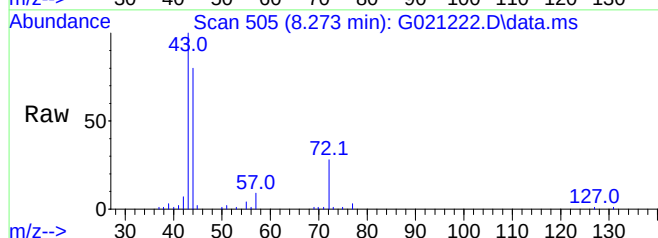
Tgt Ion: 76 Resp: 44984
Ion Ratio Lower Upper
76 100
78 8.9 0.0 30.7
44 3.1 0.0 33.4





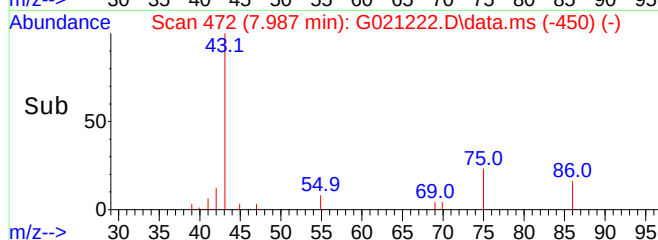
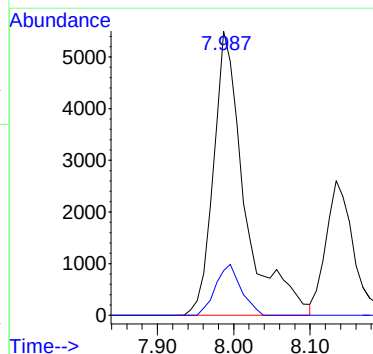
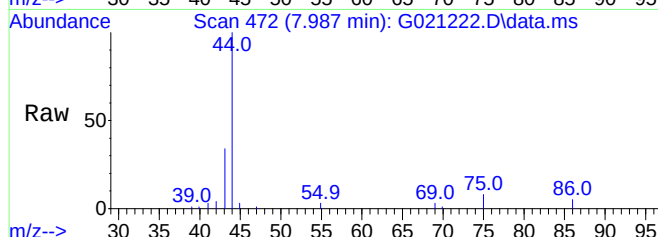
#22
2-BUTANONE(MEK)
Concen: 1.05 PPBV
RT: 8.273 min Scan# 505
Delta R.T. 0.034 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

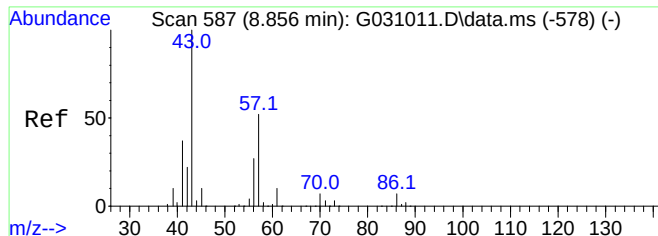
Tgt Ion: 43 Resp: 63577
Ion Ratio Lower Upper
43 100
72 28.7 2.6 42.6



#24
VINYL ACETATE
Concen: 0.18 PPBV
RT: 7.987 min Scan# 472
Delta R.T. -0.008 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

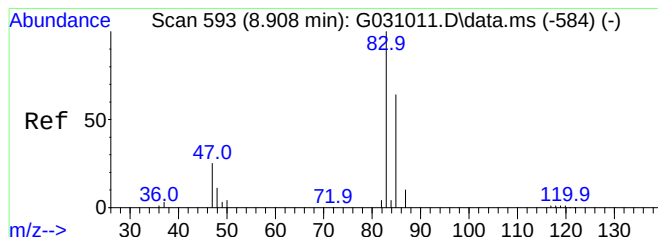
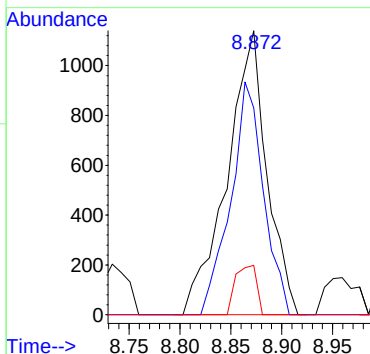
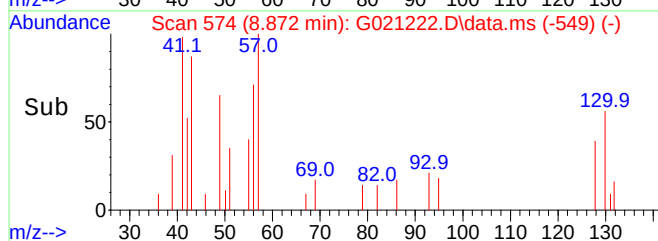
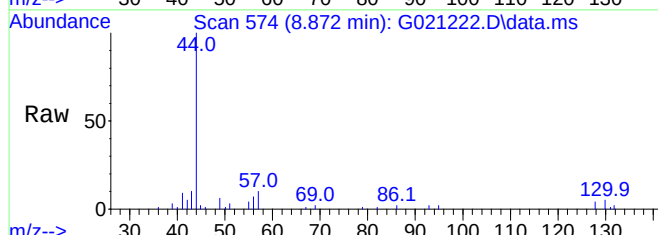
Tgt Ion: 43 Resp: 15679
Ion Ratio Lower Upper
43 100
86 14.6 0.0 17.4





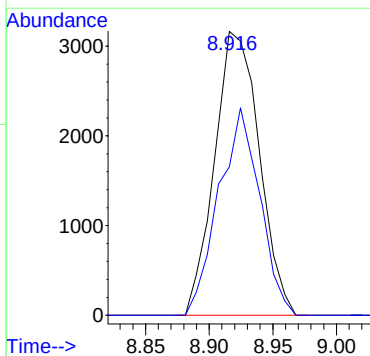
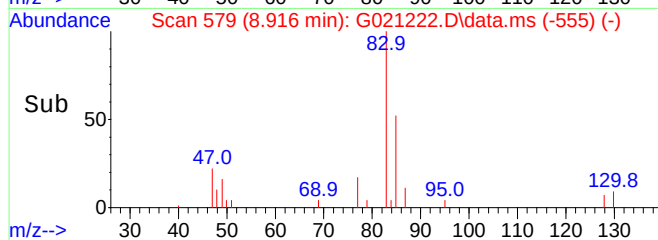
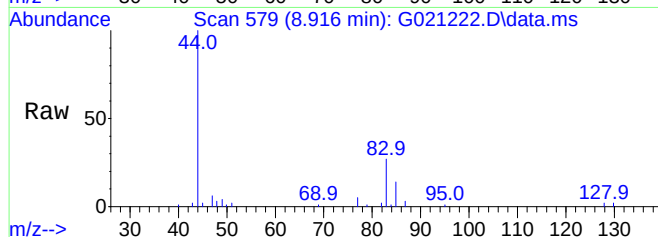
#25
HEXANE
Concen: 0.10 PPBV
RT: 8.872 min Scan# 574
Delta R.T. 0.017 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

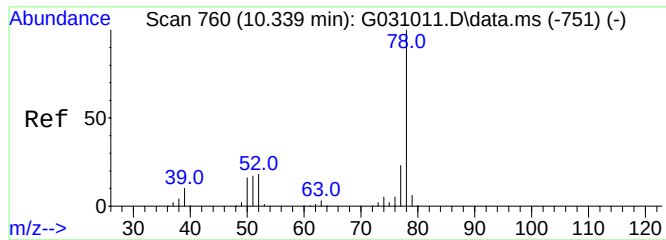
Tgt Ion: 41 Resp: 3106
Ion Ratio Lower Upper
41 100
56 67.5 50.8 90.8
86 9.2 9.6 29.6#



#27
CHLOROFORM
Concen: 0.13 PPBV
RT: 8.916 min Scan# 579
Delta R.T. 0.008 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

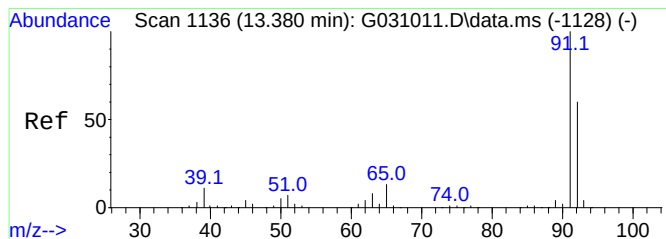
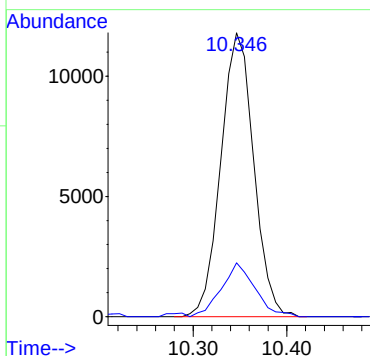
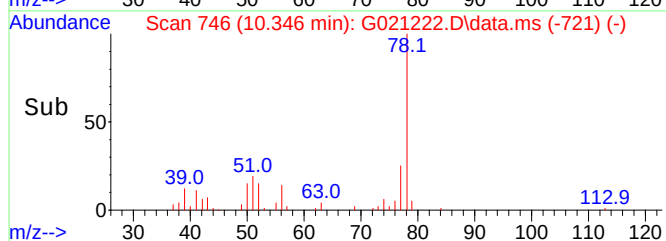
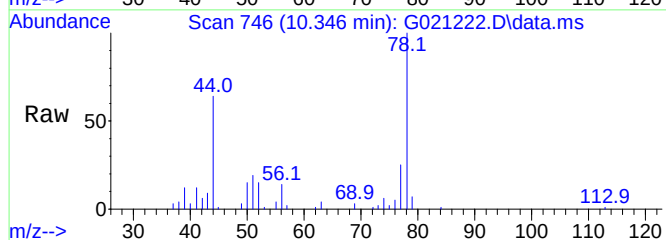
Tgt Ion: 83 Resp: 7749
Ion Ratio Lower Upper
83 100
85 67.0 44.9 84.9





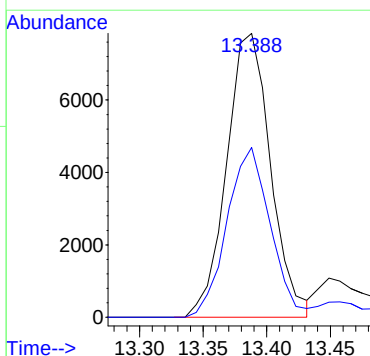
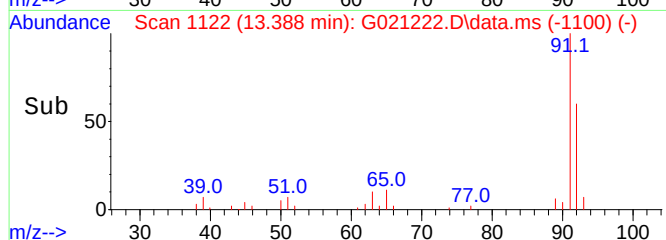
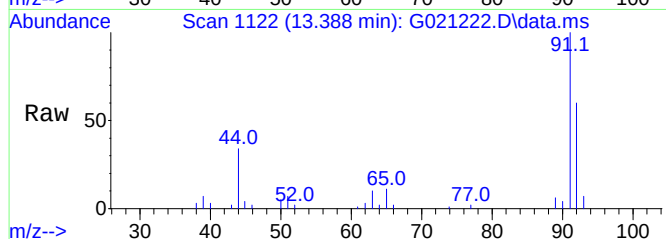
#32
 BENZENE
 Concen: 0.24 PPBV
 RT: 10.346 min Scan# 746
 Delta R.T. 0.008 min
 Lab File: G021222.D
 Acq: 13 Feb 2012 3:37 pm

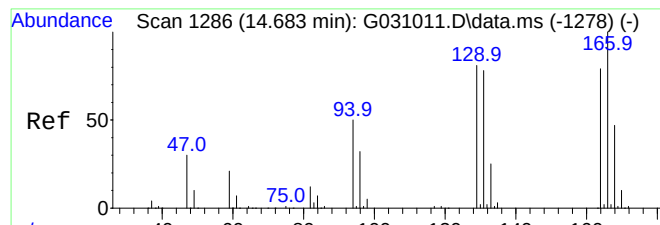
Tgt Ion: 78 Resp: 28696
 Ion Ratio Lower Upper
 78 100
 51 19.5 0.0 37.6



#46
 TOLUENE
 Concen: 0.14 PPBV
 RT: 13.388 min Scan# 1122
 Delta R.T. 0.008 min
 Lab File: G021222.D
 Acq: 13 Feb 2012 3:37 pm

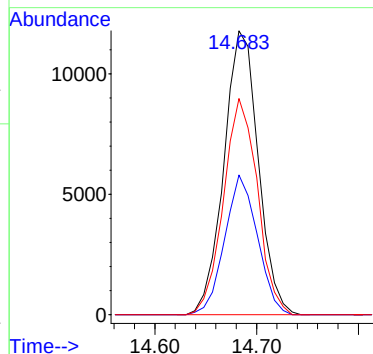
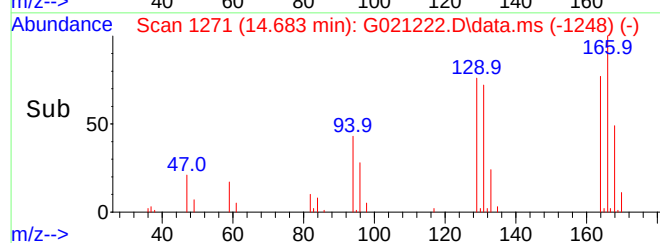
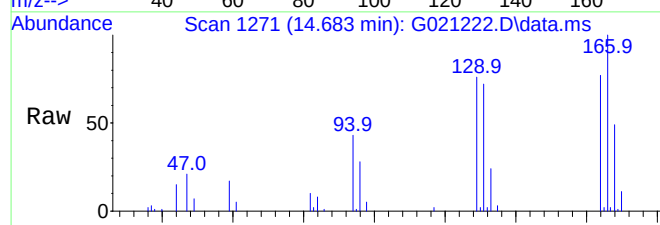
Tgt Ion: 91 Resp: 18892
 Ion Ratio Lower Upper
 91 100
 92 58.7 39.7 79.7





#50
TETRACHLOROETHENE
Concen: 0.49 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.001 min
Lab File: G021222.D
Acq: 13 Feb 2012 3:37 pm

Tgt Ion:166 Resp: 27741
Ion Ratio Lower Upper
166 100
168 46.8 27.0 67.0
129 75.1 60.6 100.6



Data File : C:\msdchem\1\data\G021212\G021222.D
 Acq On : 13 Feb 2012 3:37 pm
 Sample : 12B0323-21 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 13:00:33 2012

Vial: 15
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	962009	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.439	54	173097	8.00	PPBV	0.00

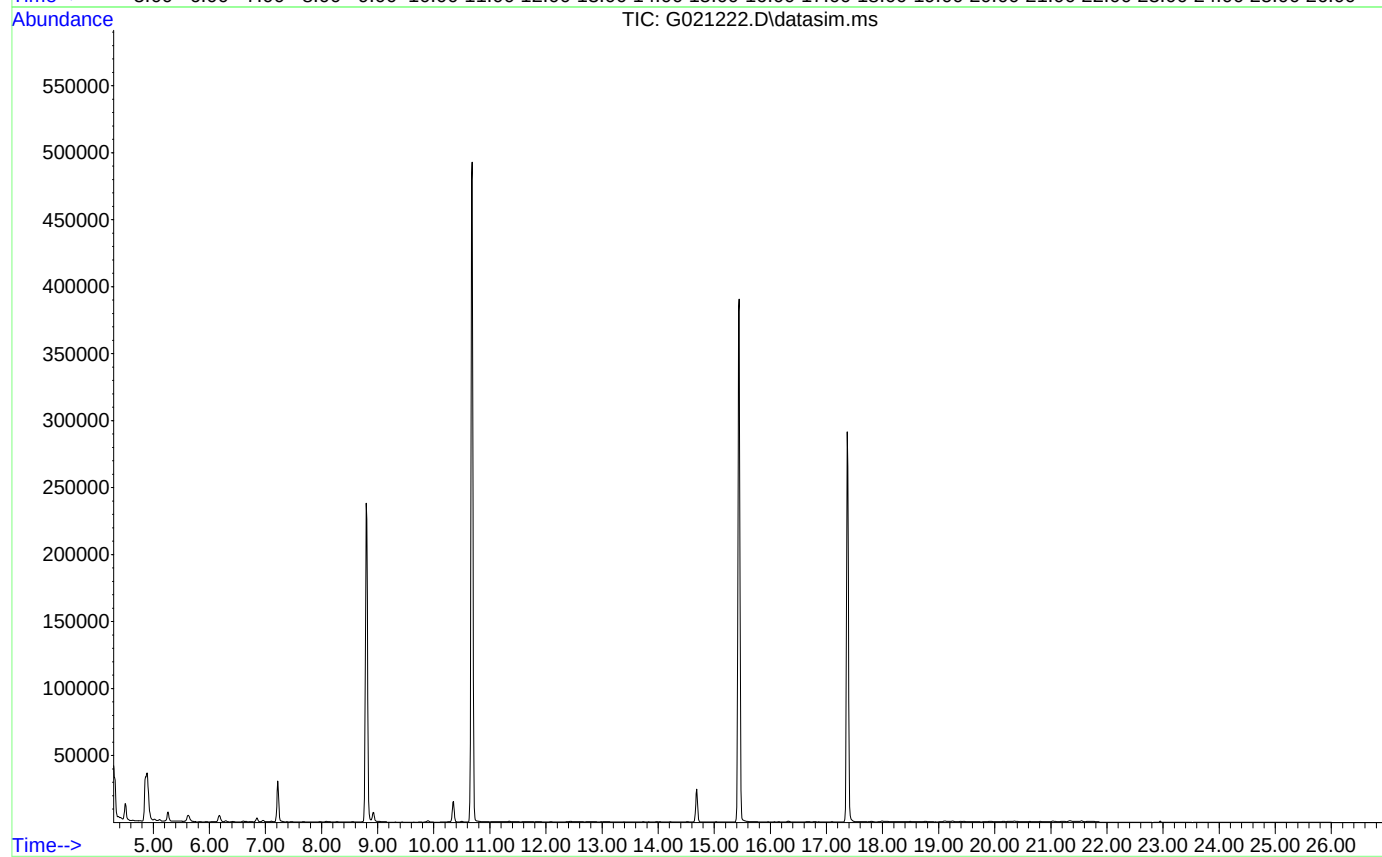
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	631636	9.64	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	120.50%

Target Compounds	Qvalue

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

Vial: 15
Operator: TPH
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-IA-10

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-22 File ID: G021422.D
 Sampled: 02/08/12 15:27 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 02:53
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.19	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.071	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.45	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene	0.046	0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.54	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-IA-10

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-22 File ID: G021422.D
 Sampled: 02/08/12 15:27 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 02:53
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	44	0.17	1.4	
100-41-4	Ethylbenzene		0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.39	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene		0.011	0.035	
108-88-3	Toluene	0.15	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	9.8	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.081	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene		0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-CONC-IA-10

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-22	File ID:	G021422.D		
Sampled:	02/08/12 15:27	Prepared:	02/14/12 10:43	Analyzed:	02/15/12 02:53		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.018	0.070	
95-47-6	o-Xylene		0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021422.D
 Acq On : 15 Feb 2012 2:53 am
 Sample : 12B0323-22 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:01:27 2012

Vial: 14
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	311283	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	989358	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	903130	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	507070	8.24	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.00%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	4.549	85	46900	0.769	PPBV	99
4) CHLOROMETHANE	4.710	50	11213	0.639	PPBV	98
10) ACROLEIN	5.894	56	4038	0.553	PPBV	97
11) ACETONE	6.016	43	192422	6.356	PPBV	88
12) TRICHLOROFLUOROMETHANE	6.172	101	682545	14.036	PPBV	99
13) ETHANOL	5.568	45	403896	63.401	PPBV	99
15) METHYLENE CHLORIDE	6.832	49	18774	0.554	PPBV	80
16) FREON 113	7.084	101	6323	0.115	PPBV	93
21) IPA	6.241	45	200311	6.289	PPBV	86
22) 2-BUTANONE(MEK)	8.247	43	46143	0.752	PPBV	87
25) HEXANE	8.855	41	6837	0.215	PPBV	93
26) ETHYL ACETATE	8.855	61	1959	0.181	PPBV	91
32) BENZENE	10.338	78	33958	0.277	PPBV	97
33) CARBON TETRACHLORIDE	10.488	117	5944	0.101	PPBV	97
40) HEPTANE	11.728	57	3302	0.090	PPBV	98
46) TOLUENE	13.388	91	29062	0.214	PPBV	100
47) 2-HEXANONE(MBK)	13.701	43	5585	0.064	PPBV	90
53) M/P-XYLENE	16.178	91	11527	0.085	PPBV	100
64) 1,4-DICHLOROBENZENE	19.566	146	6674	0.066	PPBV	98

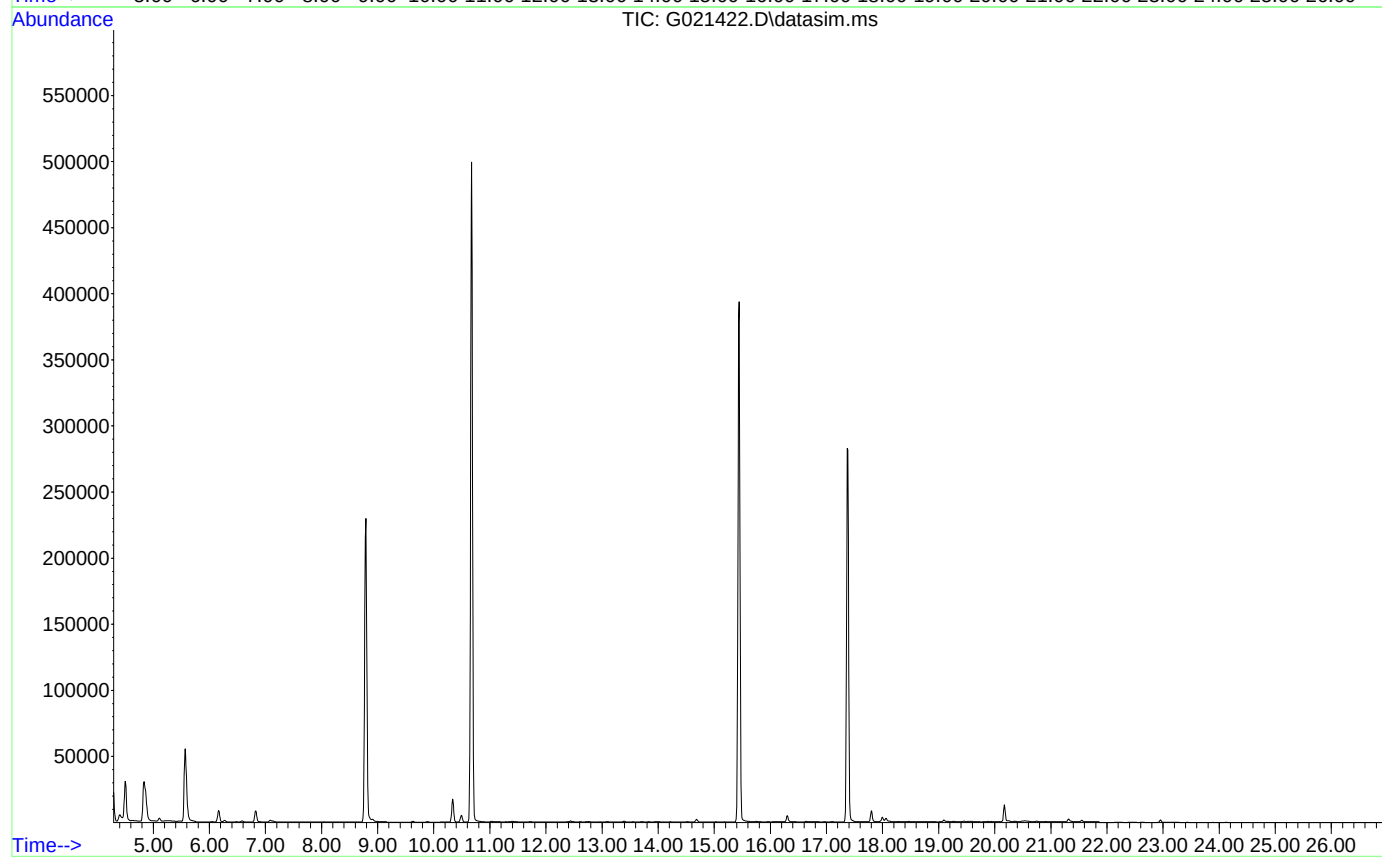
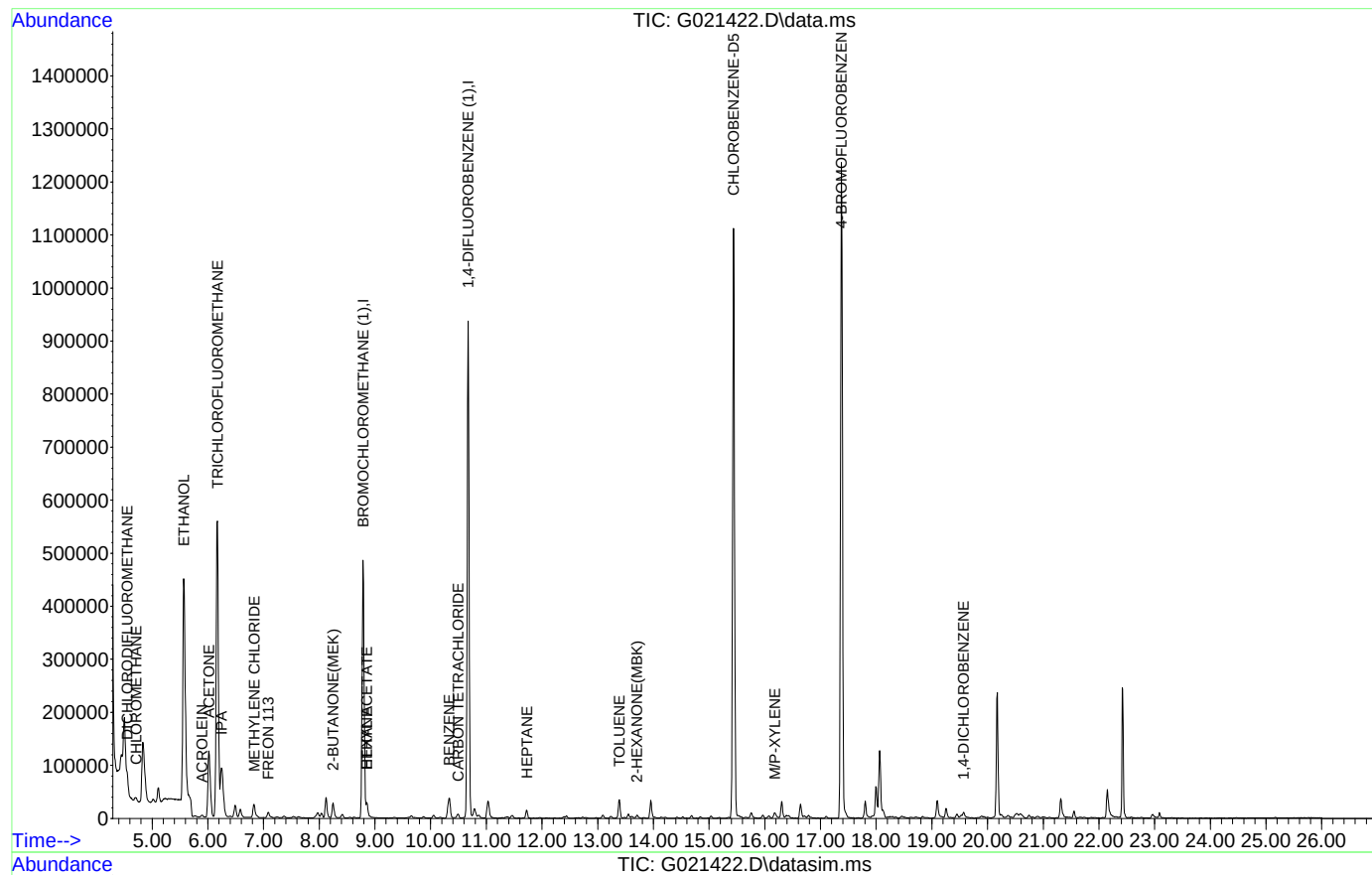
(#) = qualifier out of range (m) = manual integration (+) = signals summed

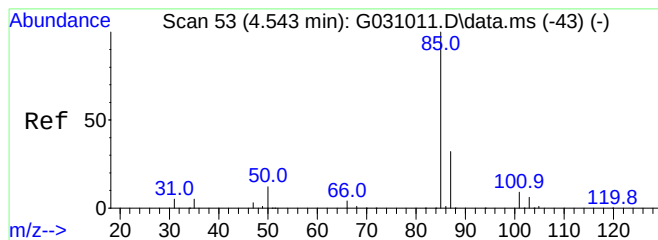
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Acq On : 15 Feb 2012 2:53 am
Sample : 12B0323-22 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:01:27 2012

Vial: 14
Operator: WSD
Inst : SYSG
Multiplr: 1.00

502

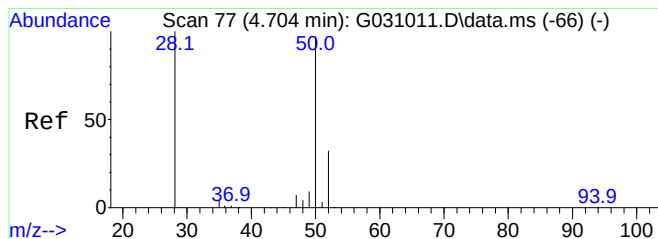
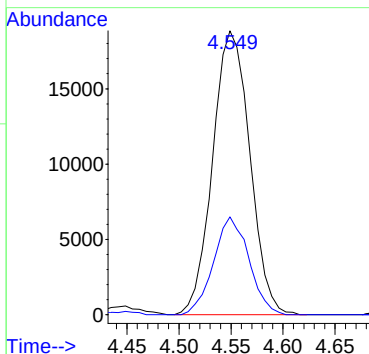
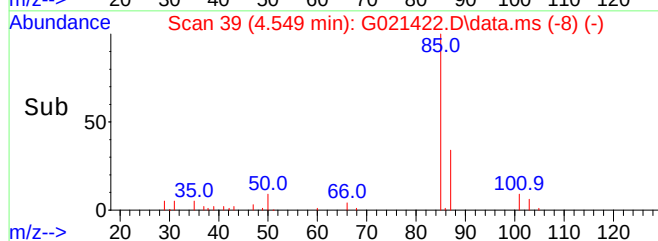
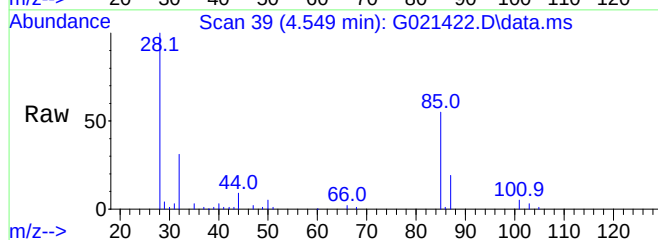
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





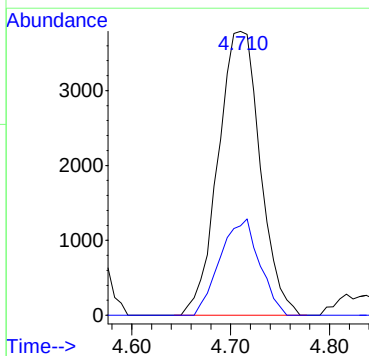
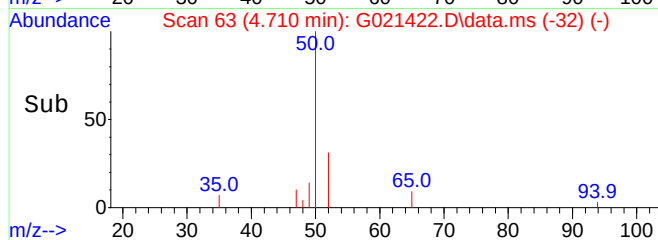
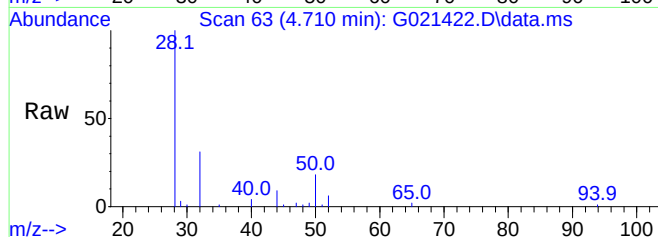
#3
DICHLORODIFLUOROMETHANE
Concen: 0.77 PPBV
RT: 4.549 min Scan# 39
Delta R.T. 0.006 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

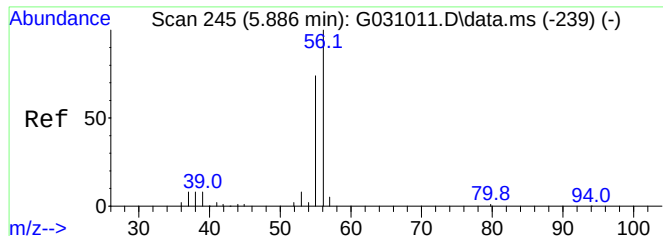
Tgt Ion: 85 Resp: 46900
Ion Ratio Lower Upper
85 100
87 32.7 12.1 52.1



#4
CHLOROMETHANE
Concen: 0.64 PPBV
RT: 4.710 min Scan# 63
Delta R.T. 0.006 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

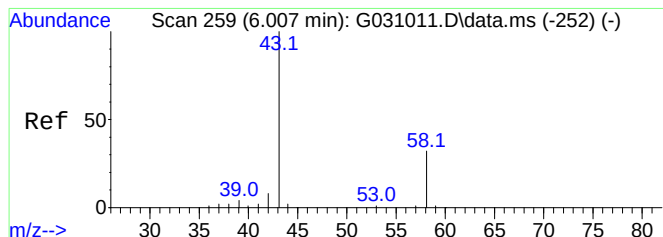
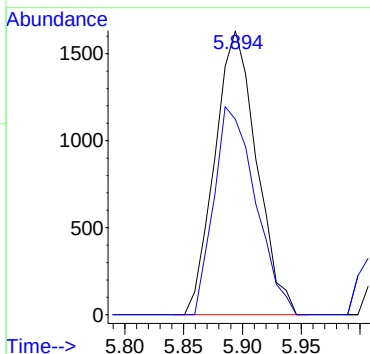
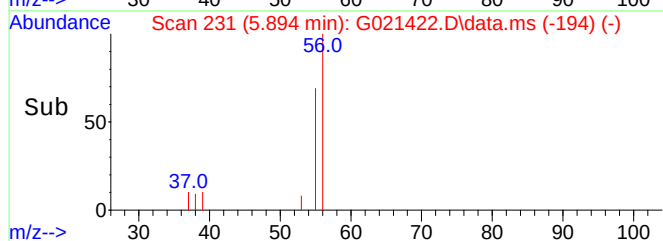
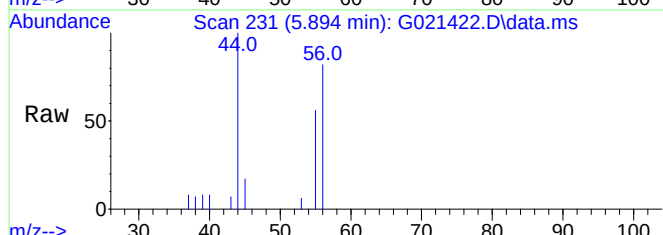
Tgt Ion: 50 Resp: 11213
Ion Ratio Lower Upper
50 100
52 31.7 12.8 52.8





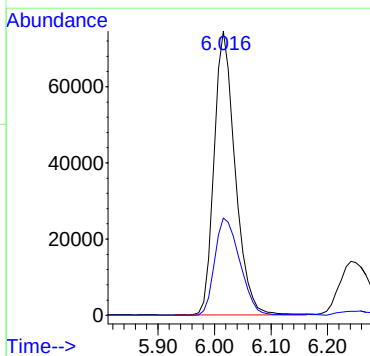
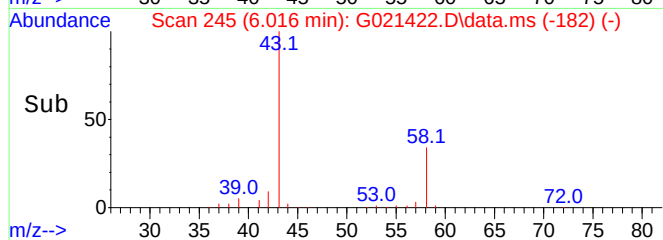
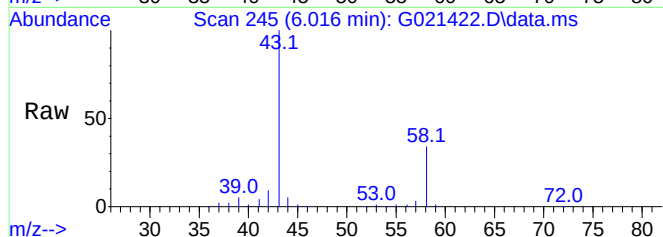
#10
ACROLEIN
Concen: 0.55 PPBV
RT: 5.894 min Scan# 231
Delta R.T. 0.009 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

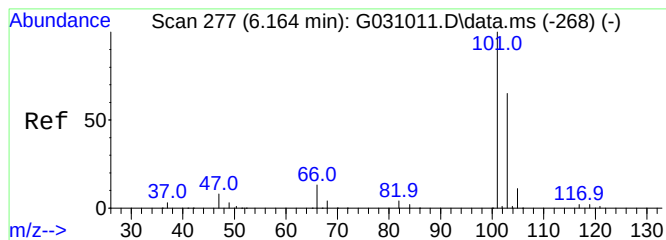
Tgt Ion: 56 Resp: 4038
Ion Ratio Lower Upper
56 100
55 73.0 56.1 84.1



#11
ACETONE
Concen: 6.36 PPBV
RT: 6.016 min Scan# 245
Delta R.T. 0.009 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

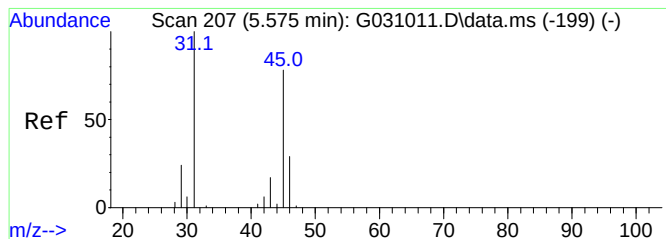
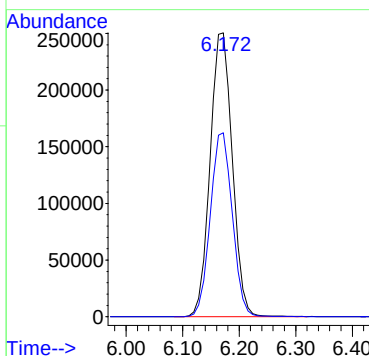
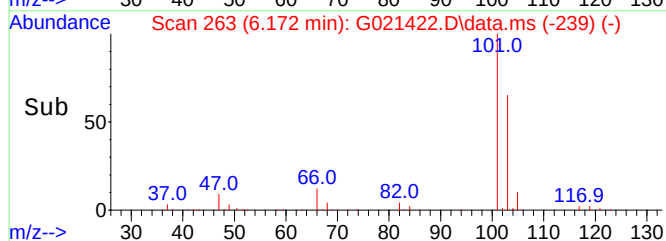
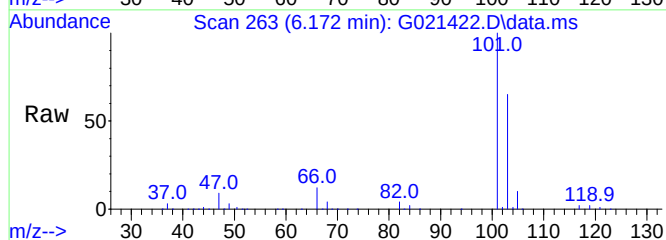
Tgt Ion: 43 Resp: 192422
Ion Ratio Lower Upper
43 100
58 40.9 13.9 53.9





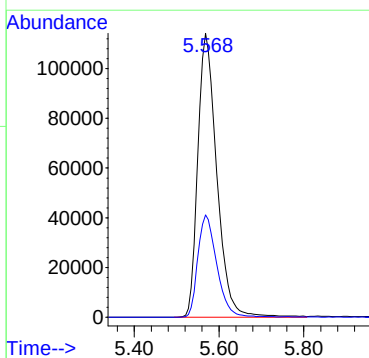
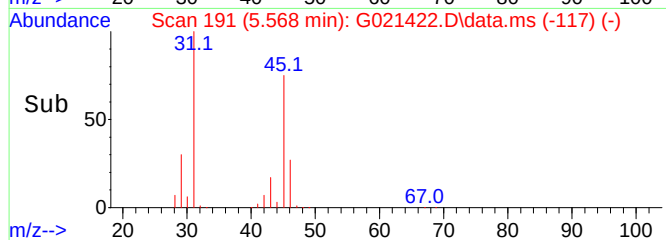
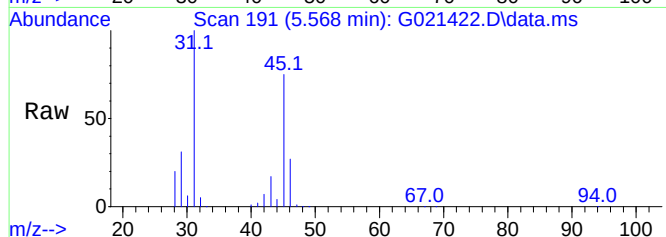
#12
 TRICHLOROFLUOROMETHANE
 Concen: 14.04 PPBV
 RT: 6.172 min Scan# 263
 Delta R.T. 0.008 min
 Lab File: G021422.D
 Acq: 15 Feb 2012 2:53 am

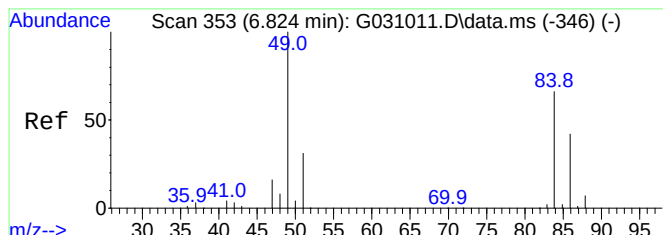
Tgt Ion: 101 Resp: 682545
 Ion Ratio Lower Upper
 101 100
 103 64.2 44.8 84.8



#13
 ETHANOL
 Concen: 63.40 PPBV
 RT: 5.568 min Scan# 191
 Delta R.T. -0.006 min
 Lab File: G021422.D
 Acq: 15 Feb 2012 2:53 am

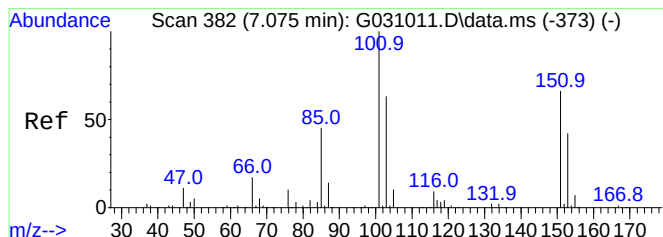
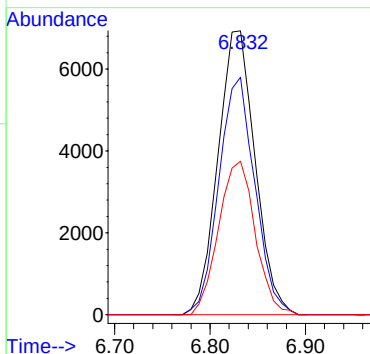
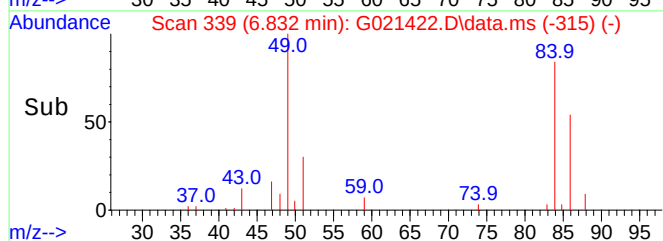
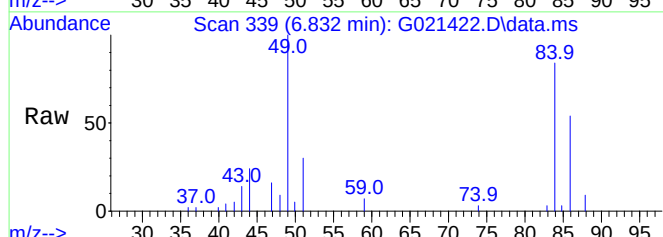
Tgt Ion: 45 Resp: 403896
 Ion Ratio Lower Upper
 45 100
 46 33.6 14.0 54.0





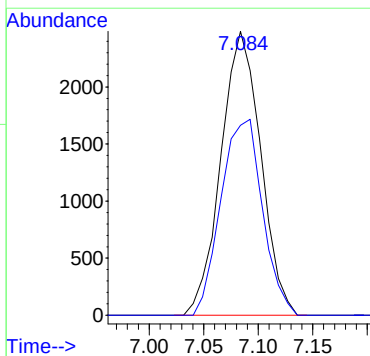
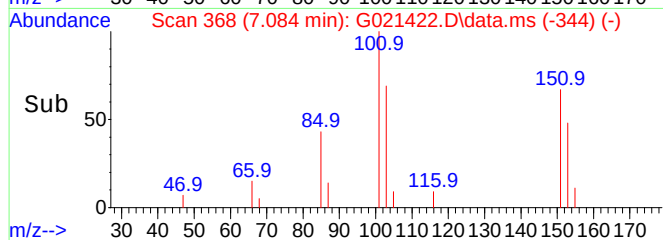
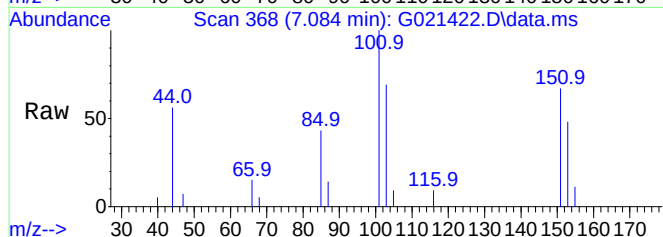
#15
METHYLENE CHLORIDE
Concen: 0.55 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

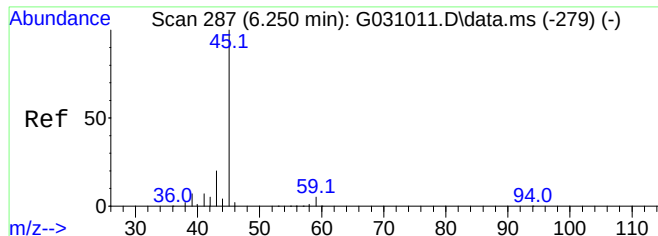
Tgt Ion: 49 Resp: 18774
Ion Ratio Lower Upper
49 100
84 81.0 45.2 85.2
86 53.3 21.4 61.4



#16
FREON 113
Concen: 0.11 PPBV
RT: 7.084 min Scan# 368
Delta R.T. 0.008 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

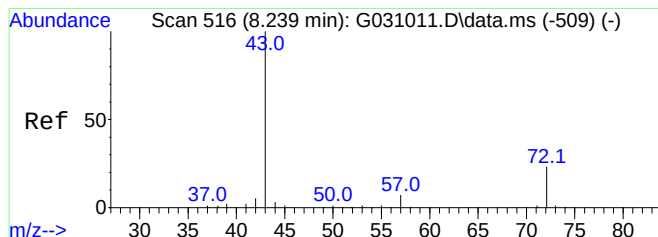
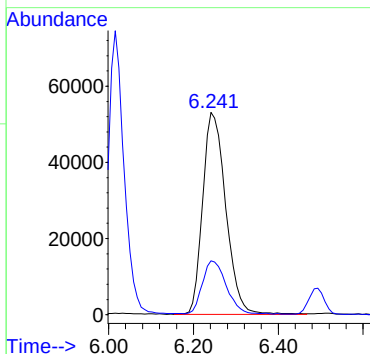
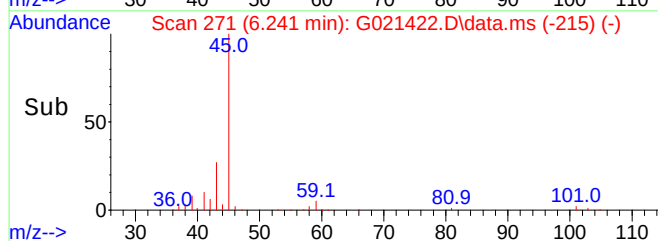
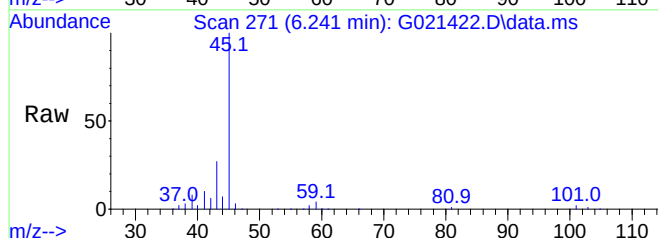
Tgt Ion: 101 Resp: 6323
Ion Ratio Lower Upper
101 100
151 72.0 46.3 86.3





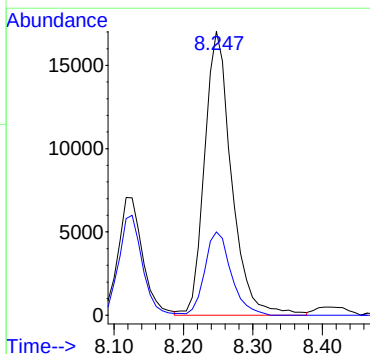
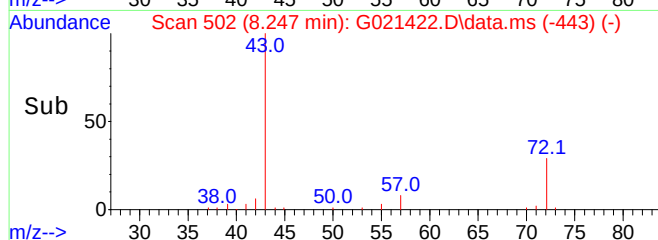
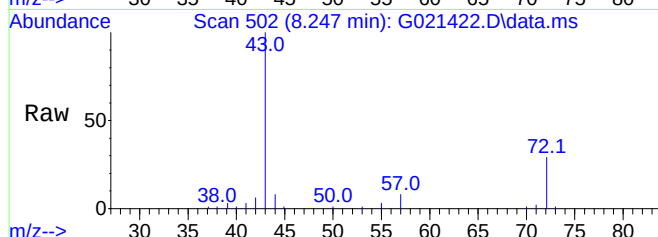
#21
IPA
Concen: 6.29 PPBV
RT: 6.241 min Scan# 271
Delta R.T. -0.009 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

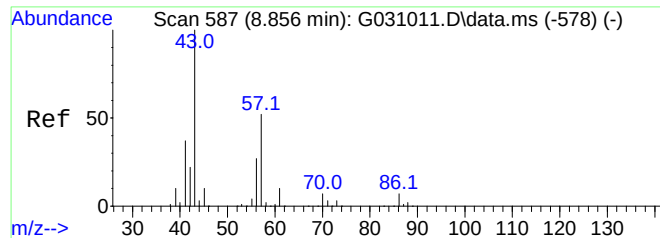
Tgt Ion: 45 Resp: 200311
Ion Ratio Lower Upper
45 100
43 27.2 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.75 PPBV
RT: 8.247 min Scan# 502
Delta R.T. 0.008 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

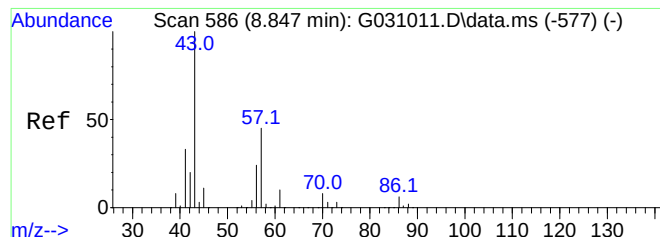
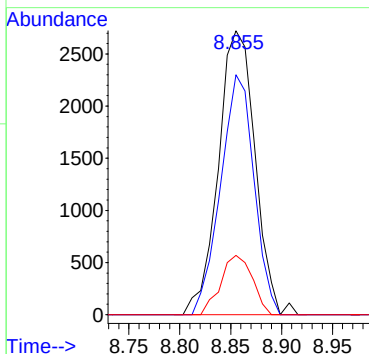
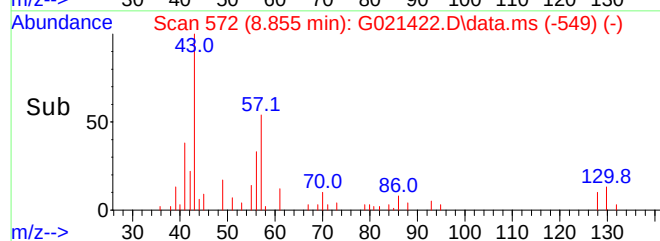
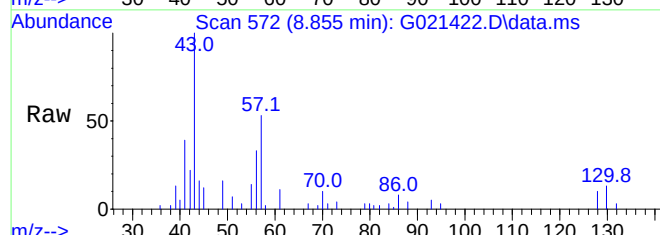
Tgt Ion: 43 Resp: 46143
Ion Ratio Lower Upper
43 100
72 28.8 2.6 42.6





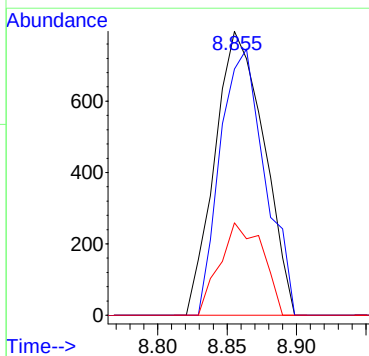
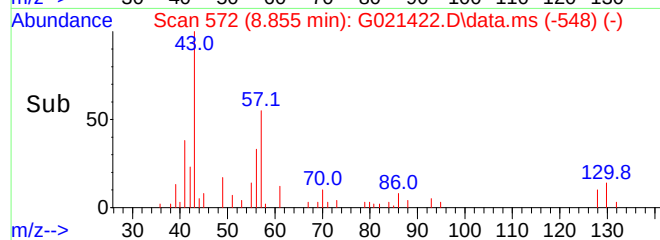
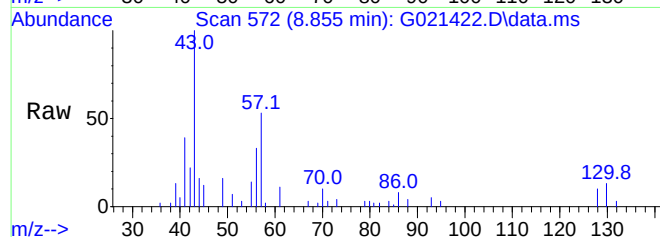
#25
HEXANE
Concen: 0.21 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.000 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

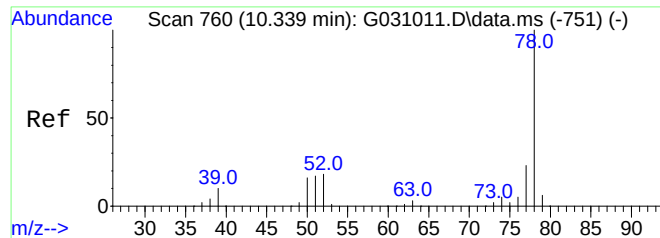
Tgt Ion: 41 Resp: 6837
Ion Ratio Lower Upper
41 100
56 76.9 50.8 90.8
86 18.0 9.6 29.6



#26
ETHYL ACETATE
Concen: 0.18 PPBV
RT: 8.855 min Scan# 572
Delta R.T. 0.008 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

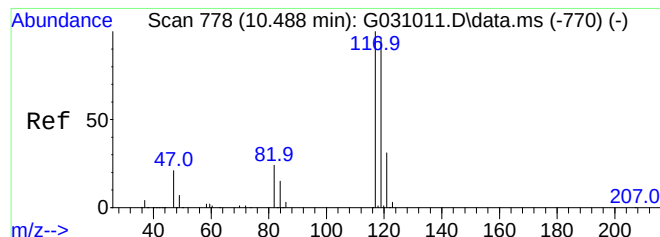
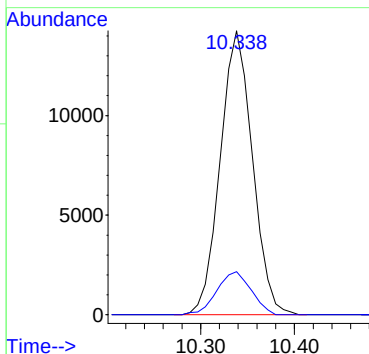
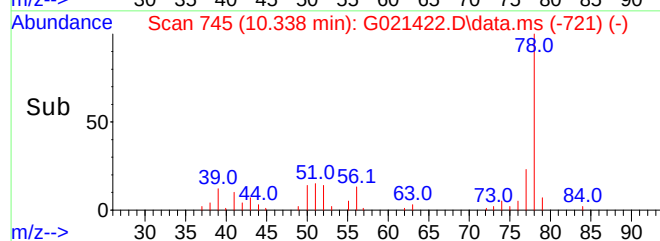
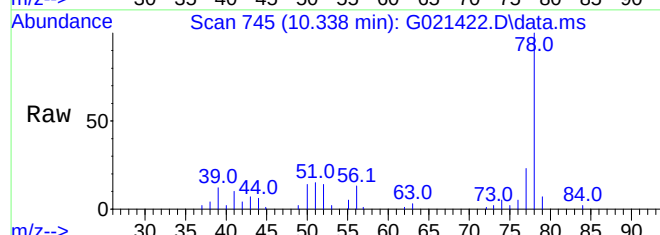
Tgt Ion: 61 Resp: 1959
Ion Ratio Lower Upper
61 100
70 85.3 58.2 98.2
88 28.4 3.0 43.0





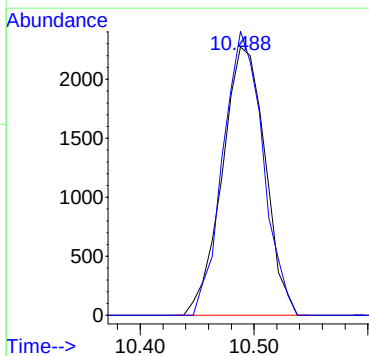
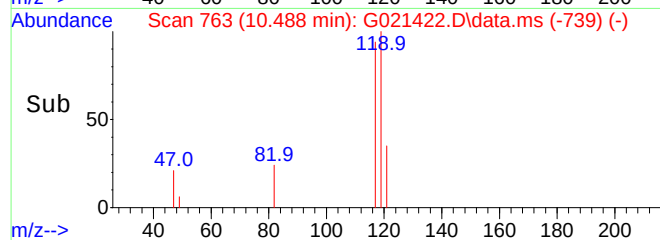
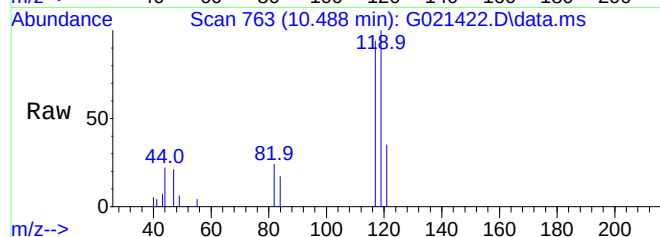
#32
 BENZENE
 Concen: 0.28 PPBV
 RT: 10.338 min Scan# 745
 Delta R.T. -0.000 min
 Lab File: G021422.D
 Acq: 15 Feb 2012 2:53 am

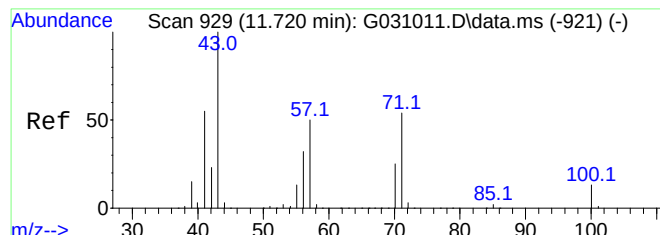
Tgt Ion: 78 Resp: 33958
 Ion Ratio Lower Upper
 78 100
 51 16.2 0.0 37.6



#33
 CARBON TETRACHLORIDE
 Concen: 0.10 PPBV
 RT: 10.488 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: G021422.D
 Acq: 15 Feb 2012 2:53 am

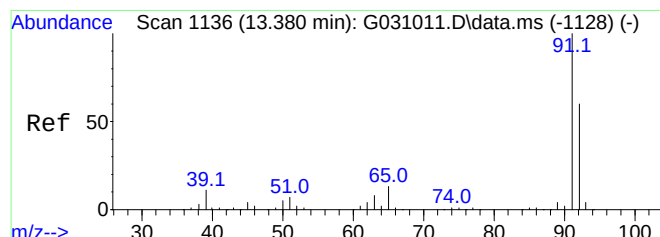
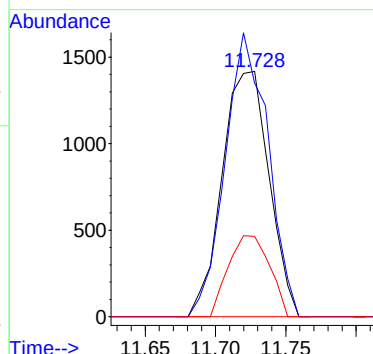
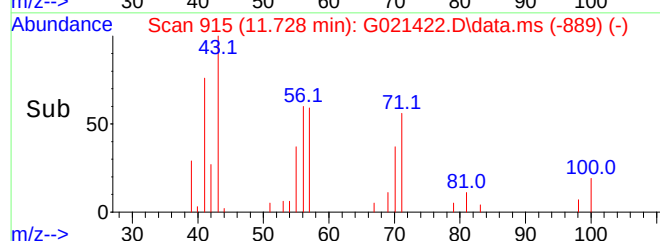
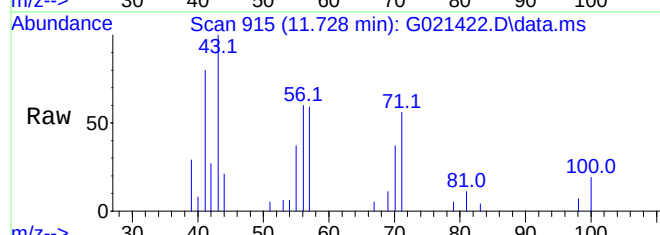
Tgt Ion: 117 Resp: 5944
 Ion Ratio Lower Upper
 117 100
 119 98.7 75.4 115.4





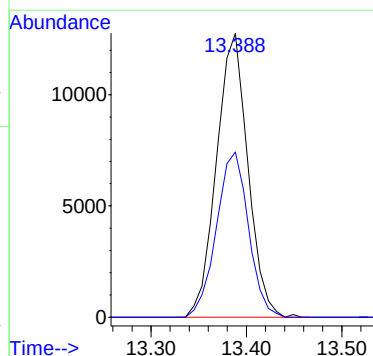
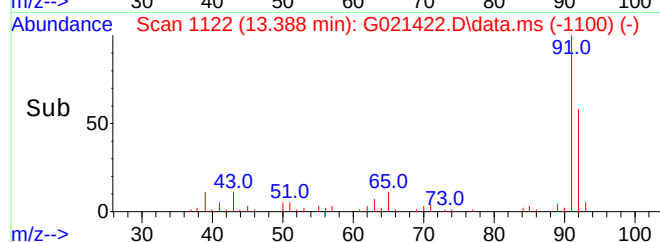
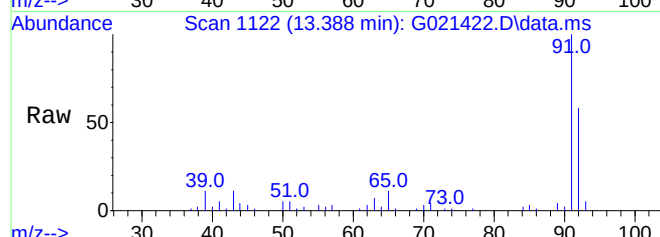
#40
HEPTANE
Concen: 0.09 PPBV
RT: 11.728 min Scan# 915
Delta R.T. 0.008 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

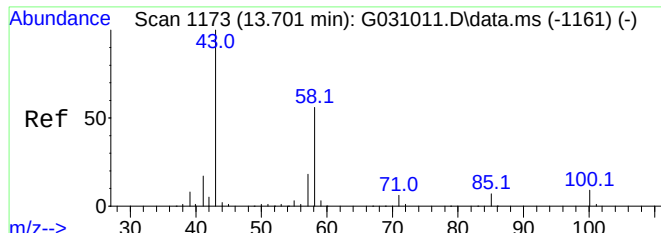
Tgt Ion: 57 Resp: 3302
Ion Ratio Lower Upper
57 100
71 105.2 83.8 123.8
100 29.0 5.4 45.4



#46
TOLUENE
Concen: 0.21 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

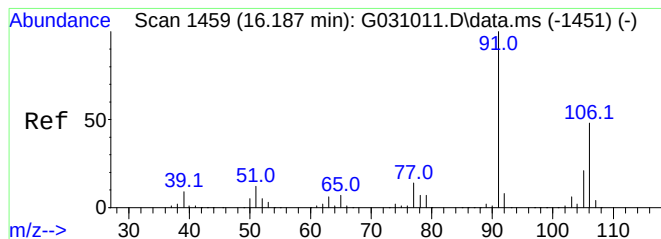
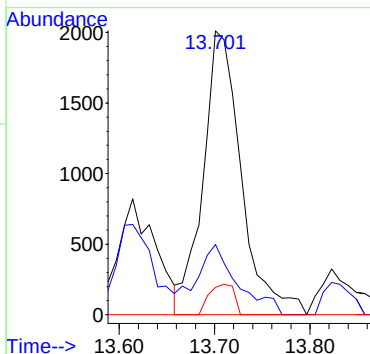
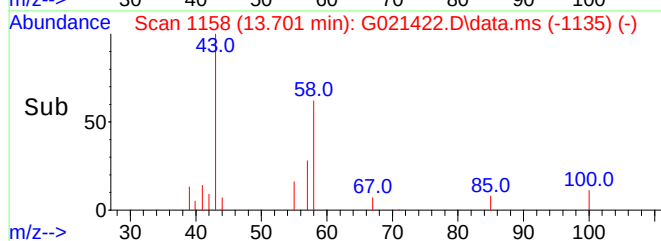
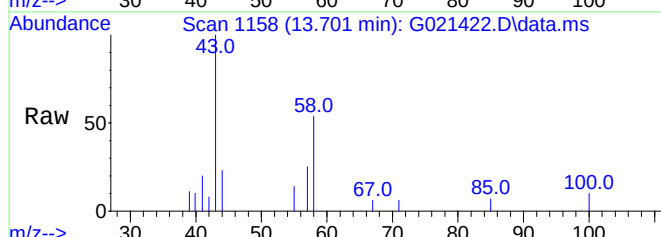
Tgt Ion: 91 Resp: 29062
Ion Ratio Lower Upper
91 100
92 59.4 39.7 79.7





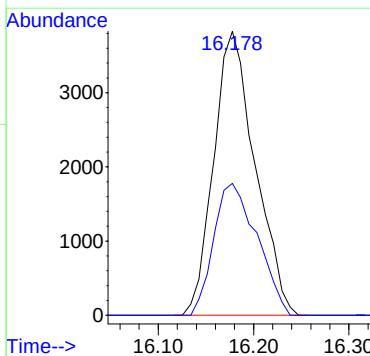
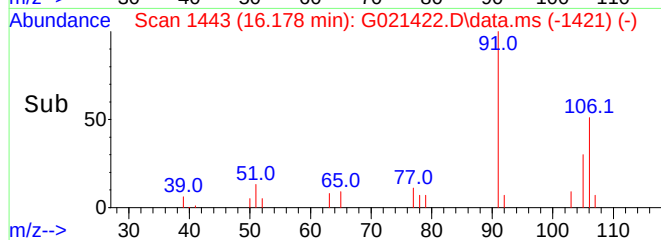
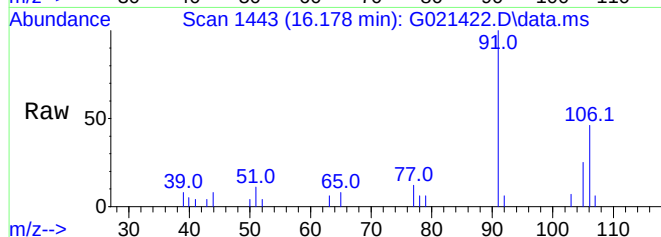
#47
2-HEXANONE (MBK)
Concen: 0.06 PPBV
RT: 13.701 min Scan# 1158
Delta R.T. 0.000 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

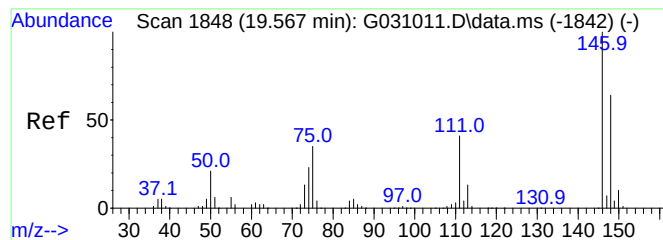
Tgt Ion: 43 Resp: 5585
Ion Ratio Lower Upper
43 100
57 23.3 0.0 37.3
100 7.0 0.0 18.2



#53
M/P-XYLENE
Concen: 0.08 PPBV
RT: 16.178 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

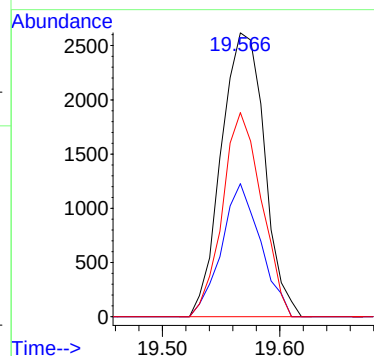
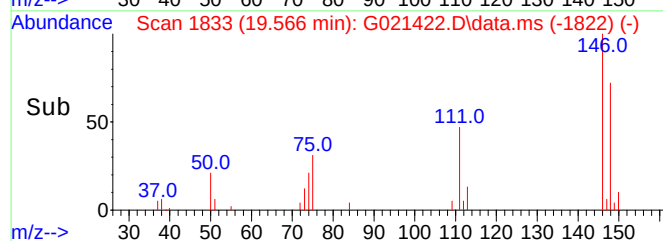
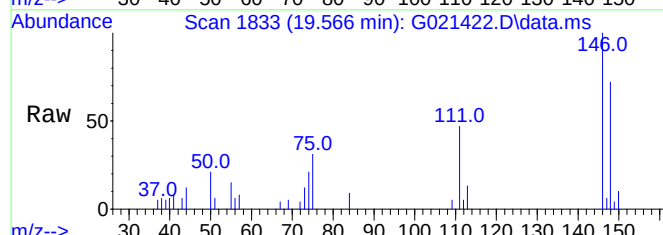
Tgt Ion: 91 Resp: 11527
Ion Ratio Lower Upper
91 100
106 48.6 28.3 68.3





#64
1,4-DICHLOROBENZENE
Concen: 0.07 PPBV
RT: 19.566 min Scan# 1833
Delta R.T. -0.000 min
Lab File: G021422.D
Acq: 15 Feb 2012 2:53 am

Tgt Ion:146 Resp: 6674
Ion Ratio Lower Upper
146 100
111 42.4 21.2 61.2
148 65.3 43.1 83.1



Data File : C:\msdchem\1\data\G021412\G021422.D
 Acq On : 15 Feb 2012 2:53 am
 Sample : 12B0323-22 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:18:12 2012

Vial: 14
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

513

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	988856	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	176471	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	654579	9.80	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	122.50%

Target Compounds	Qvalue

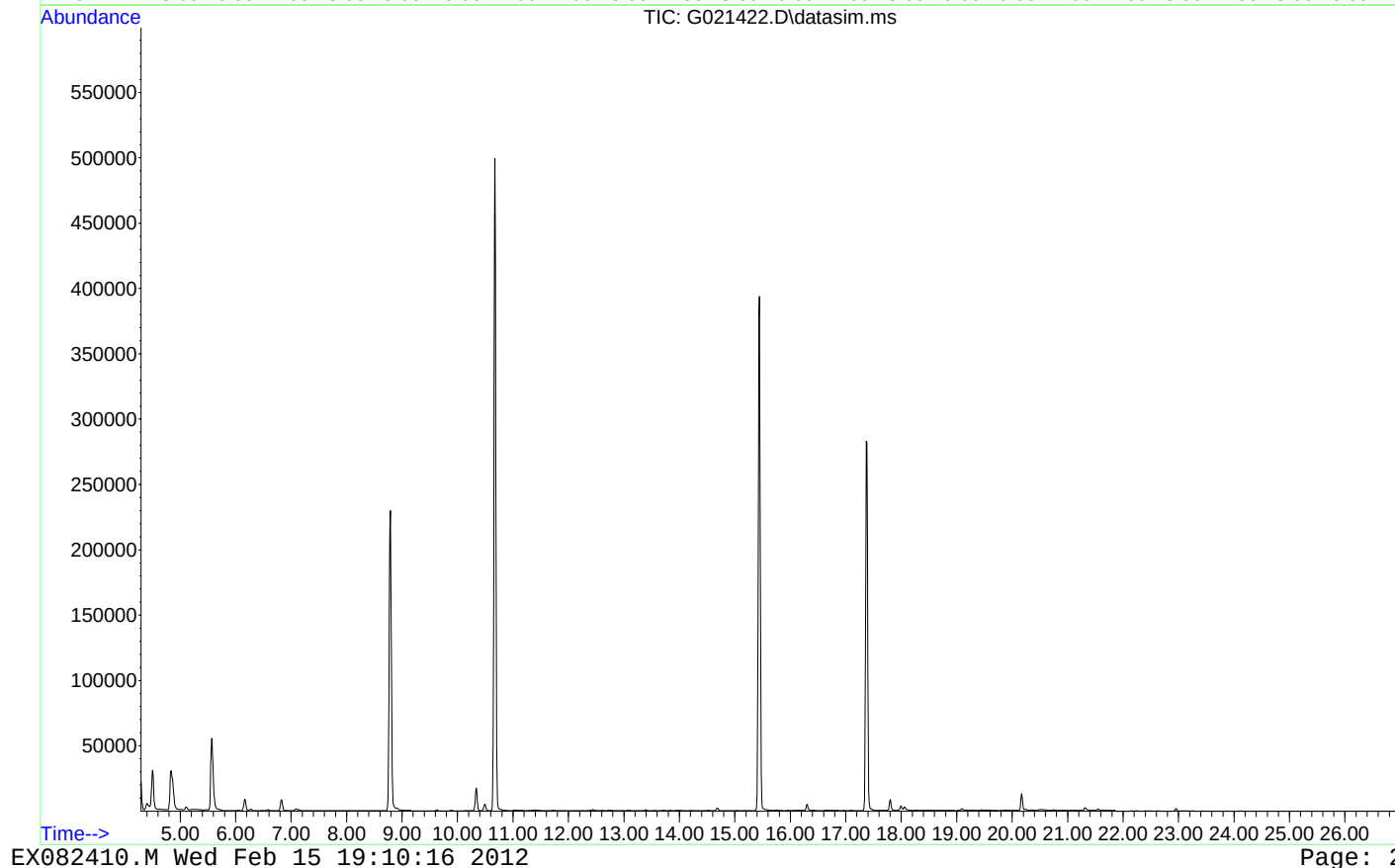
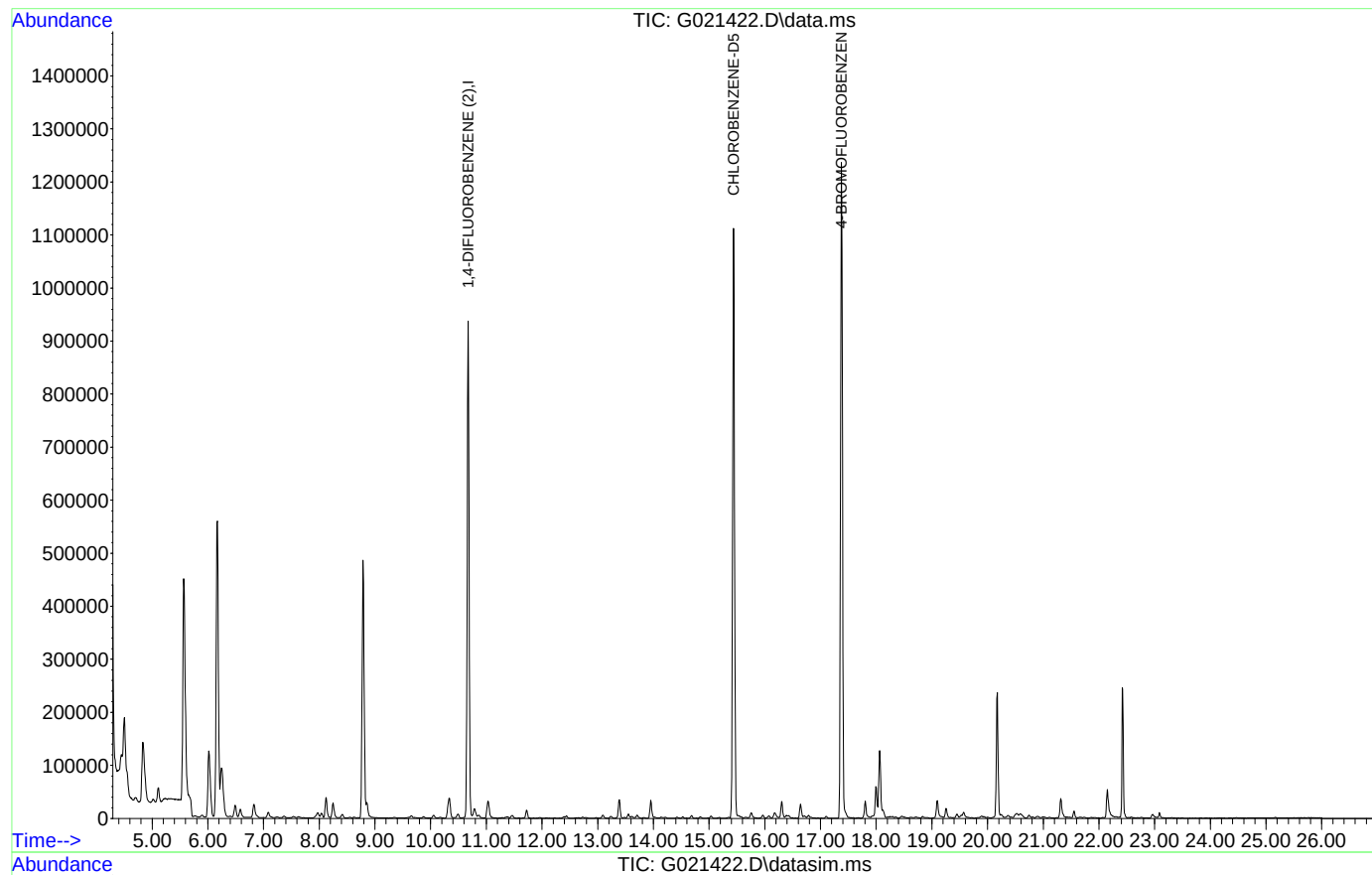
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021412\G021422.D
Acq On : 15 Feb 2012 2:53 am
Sample : 12B0323-22 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:18:12 2012

Vial: 14
Operator: WSD
Inst : SYSG
Multiplr: 1.00

514

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-11

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-23 File ID: G021223.D
 Sampled: 02/08/12 17:35 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 16:18
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.052	0.10	
100-44-7	Benzyl chloride		0.018	0.10	
75-27-4	Bromodichloromethane		0.028	0.10	
75-25-2	Bromoform		0.026	0.10	
74-83-9	Bromomethane		0.096	0.10	
78-93-3	2-Butanone (MEK)	4.7	0.076	4.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.15	0.41	
56-23-5	Carbon Tetrachloride		0.028	0.10	
108-90-7	Chlorobenzene		0.084	0.10	
75-00-3	Chloroethane		0.056	0.10	
67-66-3	Chloroform	0.14	0.036	0.10	
74-87-3	Chloromethane		0.050	0.10	
110-82-7	Cyclohexane		0.096	0.10	
124-48-1	Dibromochloromethane		0.024	0.10	
106-93-4	1,2-Dibromoethane (EDB)		0.028	0.10	
95-50-1	1,2-Dichlorobenzene		0.052	0.10	
541-73-1	1,3-Dichlorobenzene		0.028	0.10	
106-46-7	1,4-Dichlorobenzene		0.026	0.10	
75-71-8	Dichlorodifluoromethane (Freon 12)	20	0.042	0.10	
75-34-3	1,1-Dichloroethane	0.13	0.030	0.10	
107-06-2	1,2-Dichloroethane		0.034	0.10	
75-35-4	1,1-Dichloroethylene		0.032	0.10	
156-59-2	cis-1,2-Dichloroethylene		0.028	0.10	
156-60-5	trans-1,2-Dichloroethylene		0.034	0.10	
78-87-5	1,2-Dichloropropane		0.040	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-11

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Sub Slab Laboratory ID: 12B0323-23 File ID: G021223.D
 Sampled: 02/08/12 17:35 Prepared: 02/12/12 17:48 Analyzed: 02/13/12 16:18
 Solids: Preparation: TO-15 Prep Dilution: 2
 Initial/Final: 400 mL / 400 mL
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.020	0.10	
10061-02-6	trans-1,3-Dichloropropene		0.020	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.076	0.10	
123-91-1	1,4-Dioxane		0.050	0.10	
64-17-5	Ethanol		0.47	4.0	
100-41-4	Ethylbenzene		0.028	0.10	
87-68-3	Hexachlorobutadiene		0.036	0.10	
110-54-3	Hexane		0.088	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.028	0.10	
75-09-2	Methylene Chloride	1.2	0.13	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.030	0.10	V-05
100-42-5	Styrene		0.022	0.10	
79-34-5	1,1,2,2-Tetrachloroethane		0.034	0.10	
127-18-4	Tetrachloroethylene	5.6	0.030	0.10	
108-88-3	Toluene	0.92	0.028	0.10	
120-82-1	1,2,4-Trichlorobenzene		0.038	0.20	
71-55-6	1,1,1-Trichloroethane	0.68	0.034	0.10	
79-00-5	1,1,2-Trichloroethane		0.032	0.10	
79-01-6	Trichloroethylene	2.0	0.028	0.10	
75-69-4	Trichlorofluoromethane (Freon 11)	0.49	0.062	0.10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.12	0.034	0.10	
95-63-6	1,2,4-Trimethylbenzene		0.034	0.10	
108-67-8	1,3,5-Trimethylbenzene		0.030	0.10	
540-84-1	2,2,4-Trimethylpentane		0.086	0.27	V-05
75-01-4	Vinyl Chloride		0.050	0.10	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-SS-11

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Sub Slab	Laboratory ID:	12B0323-23	File ID:	G021223.D		
Sampled:	02/08/12 17:35	Prepared:	02/12/12 17:48	Analyzed:	02/13/12 16:18		
Solids:		Preparation:	TO-15 Prep	Dilution:	2		
Initial/Final:	400 mL / 400 mL						
Batch:	B046173	Sequence:	S001777	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.052	0.20	
95-47-6	o-Xylene		0.026	0.10	

Data File : C:\msdchem\1\data\G021212\G021223.D
 Acq On : 13 Feb 2012 4:18 pm
 Sample : 12B0323-23 2X
 Misc : 2,1,400,400,2X
 Quant Time: Feb 14 10:57:53 2012

Vial: 16
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

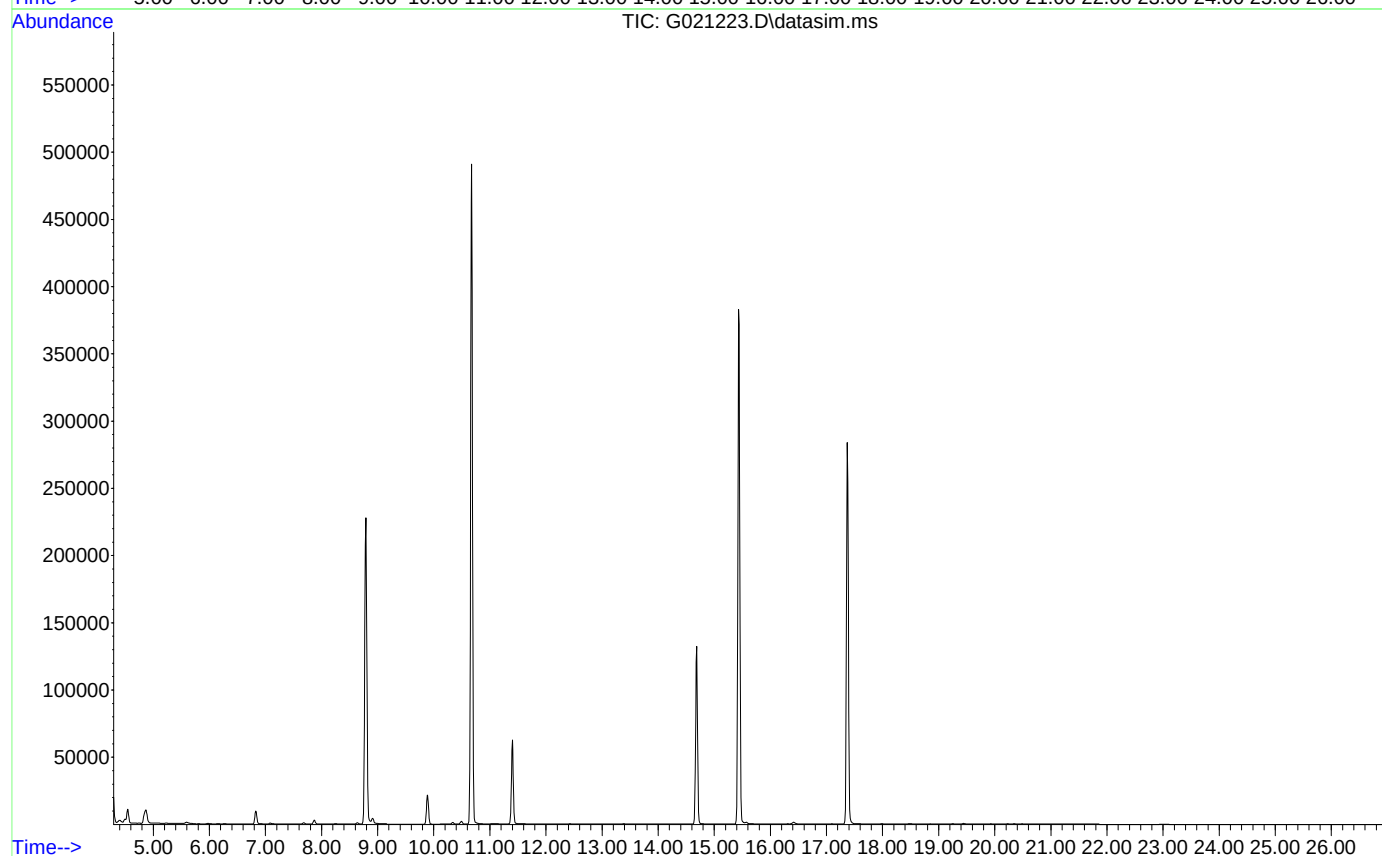
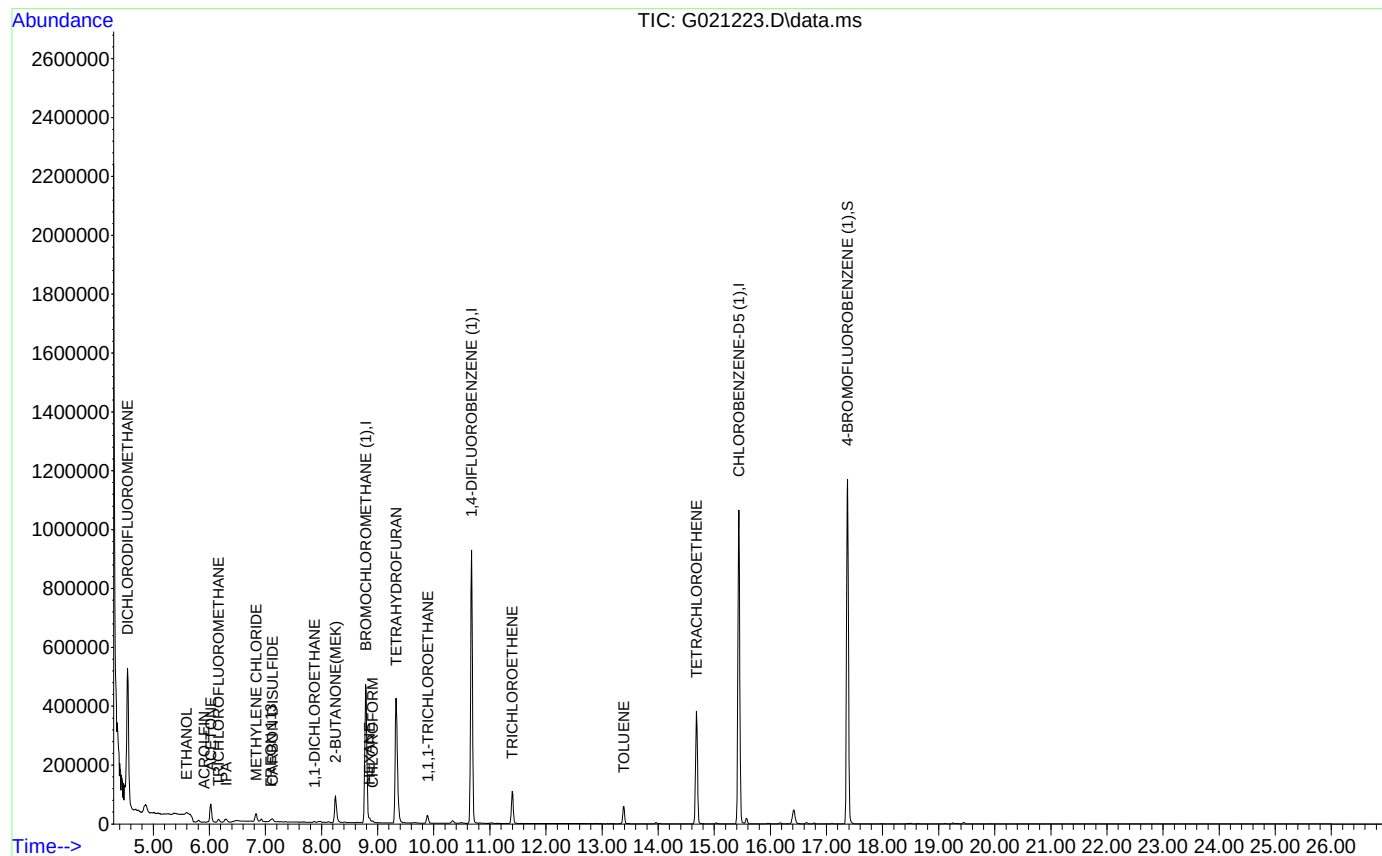
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

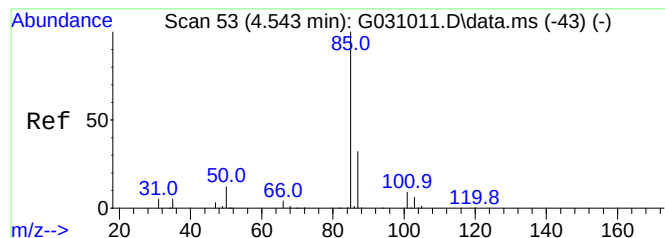
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	300643	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	934779	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	843284	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	474606	8.26	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.25%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.542	85	588646	9.990	PPBV	Qvalue 100
10) ACROLEIN	5.903	56	939	0.133	PPBV	# 83
11) ACETONE	6.024	43	89873	3.074	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.163	101	11414	0.243	PPBV	96
13) ETHANOL	5.595	45	4981	0.810	PPBV	94
15) METHYLENE CHLORIDE	6.832	49	20341	0.621	PPBV	77
16) FREON 113	7.092	101	3193	0.060	PPBV	97
17) CARBON DISULFIDE	7.118	76	21095	0.252	PPBV	89
19) 1,1-DICHLOROETHANE	7.874	63	3678	0.065	PPBV	97
21) IPA	6.293	45	15661	0.509	PPBV	69
22) 2-BUTANONE(MEK)	8.247	43	139868	2.360	PPBV	88
25) HEXANE	8.855	41	4063	0.132	PPBV	93
27) CHLOROFORM	8.907	83	4240	0.071	PPBV	99
28) TETRAHYDROFURAN	9.325	71	171293	12.617	PPBV	100
31) 1,1,1-TRICHLOROETHANE	9.889	97	21300	0.340	PPBV	99
37) TRICHLOROETHENE	11.397	95	47573	1.007	PPBV	91
46) TOLUENE	13.388	91	58360	0.459	PPBV	97
50) TETRACHLOROETHENE	14.683	166	153426	2.803	PPBV	96

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

519

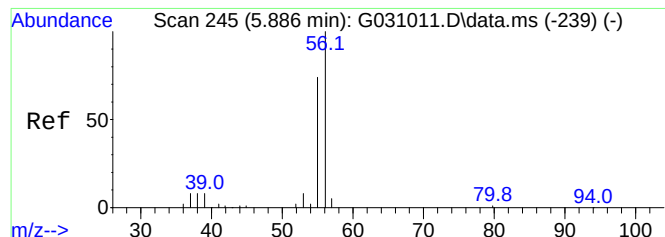
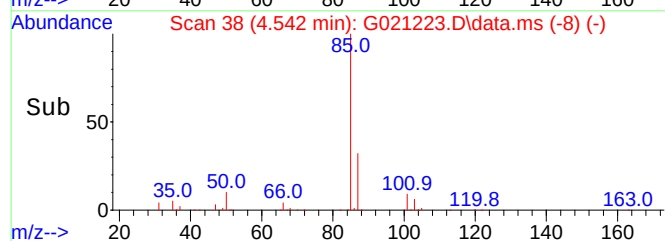
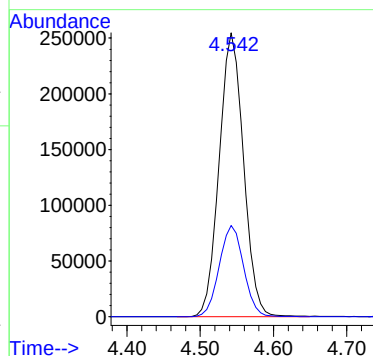
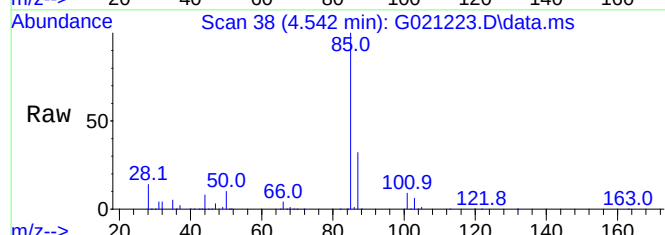
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





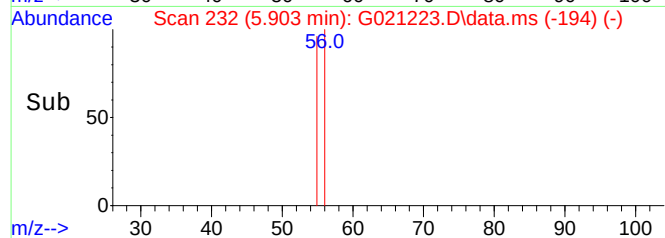
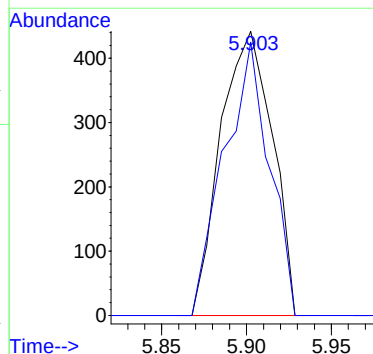
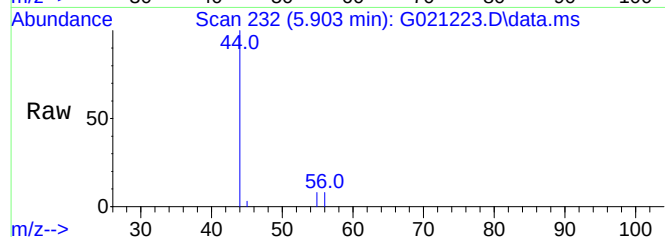
#3
 DICHLORODIFLUOROMETHANE
 Concen: 9.99 PPBV
 RT: 4.542 min Scan# 38
 Delta R.T. -0.000 min
 Lab File: G021223.D
 Acq: 13 Feb 2012 4:18 pm

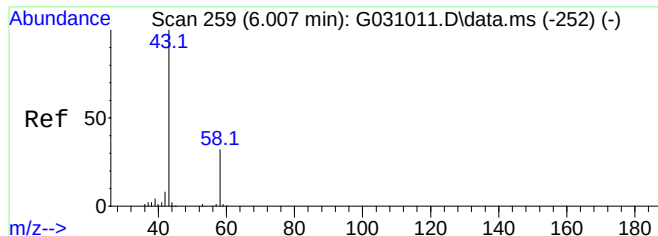
Tgt Ion: 85 Resp: 588646
 Ion Ratio Lower Upper
 85 100
 87 32.2 12.1 52.1



#10
 ACROLEIN
 Concen: 0.13 PPBV
 RT: 5.903 min Scan# 232
 Delta R.T. 0.018 min
 Lab File: G021223.D
 Acq: 13 Feb 2012 4:18 pm

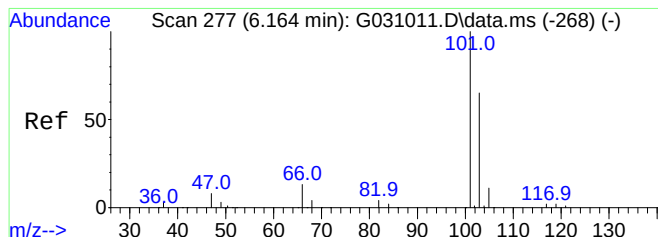
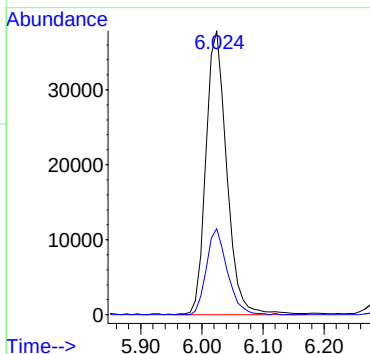
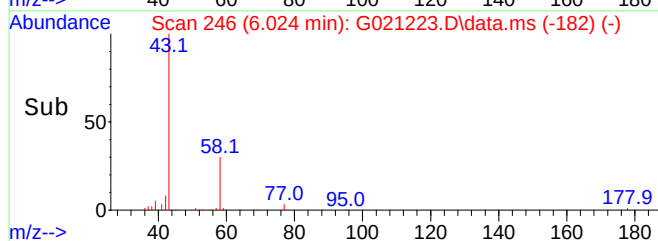
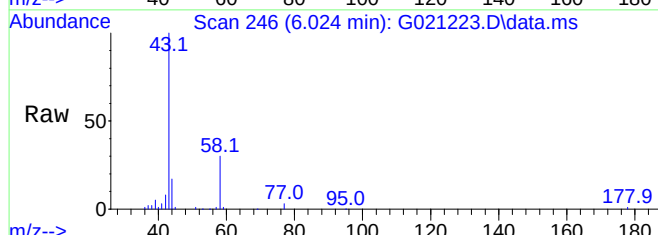
Tgt Ion: 56 Resp: 939
 Ion Ratio Lower Upper
 56 100
 55 84.2 56.1 84.1#





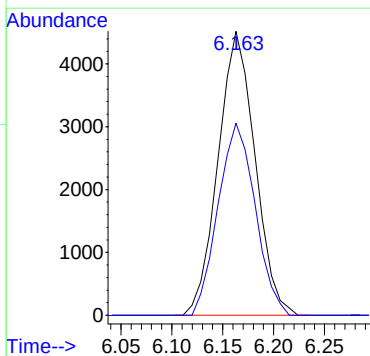
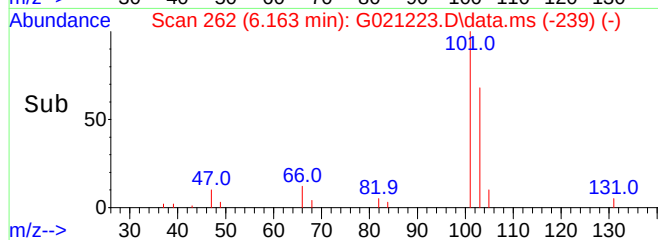
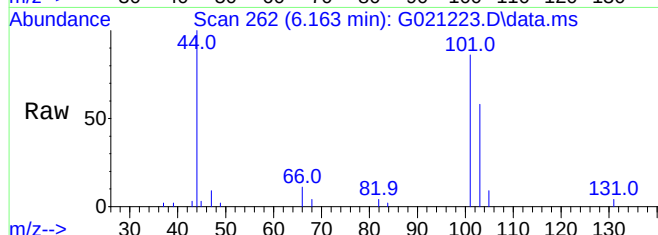
#11
ACETONE
Concen: 3.07 PPBV
RT: 6.024 min Scan# 246
Delta R.T. 0.017 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

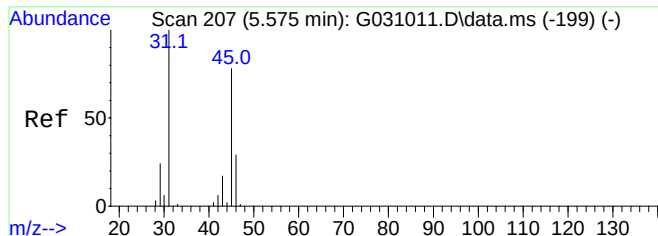
Tgt Ion: 43 Resp: 89873
Ion Ratio Lower Upper
43 100
58 30.3 13.9 53.9



#12
TRICHLOROFLUOROMETHANE
Concen: 0.24 PPBV
RT: 6.163 min Scan# 262
Delta R.T. -0.001 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

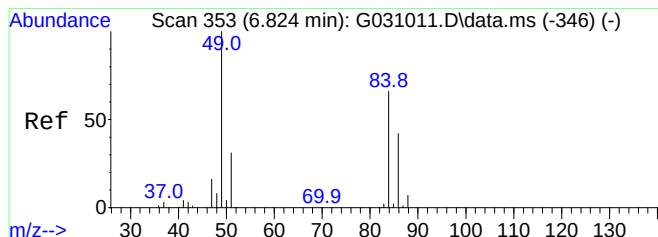
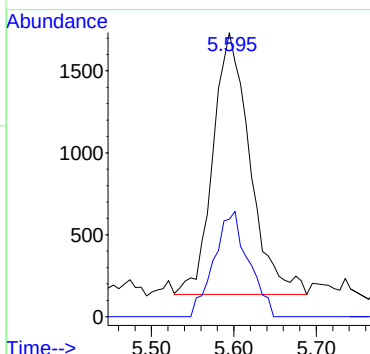
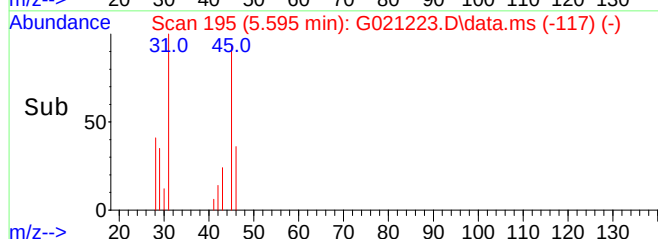
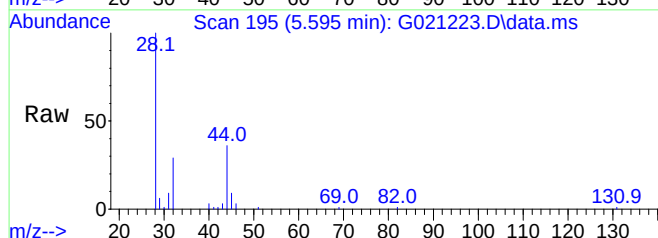
Tgt Ion: 101 Resp: 11414
Ion Ratio Lower Upper
101 100
103 67.8 44.8 84.8





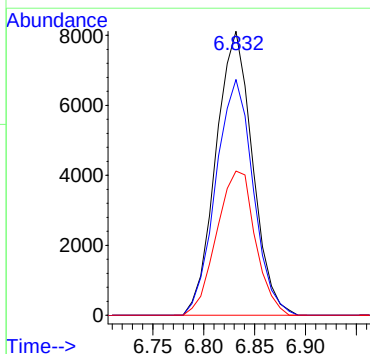
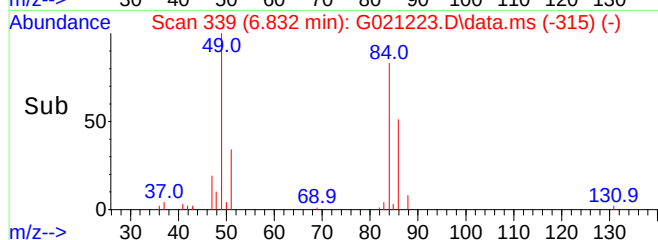
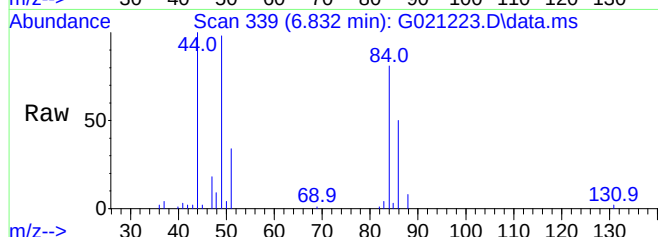
#13
ETHANOL
Concen: 0.81 PPBV
RT: 5.595 min Scan# 195
Delta R.T. 0.021 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

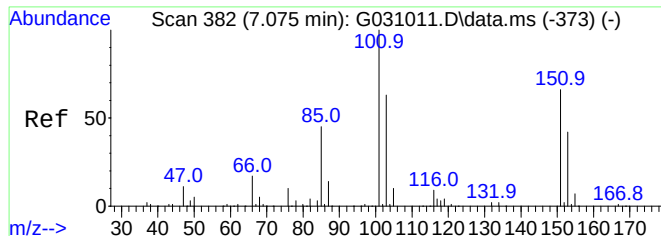
Tgt Ion: 45 Resp: 4981
Ion Ratio Lower Upper
45 100
46 37.4 14.0 54.0



#15
METHYLENE CHLORIDE
Concen: 0.62 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

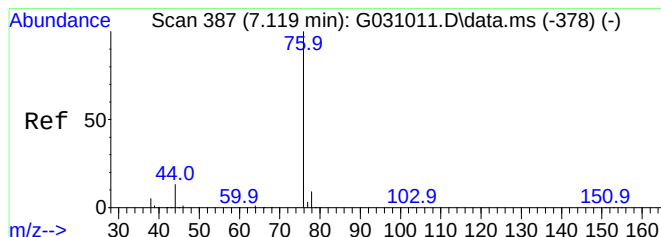
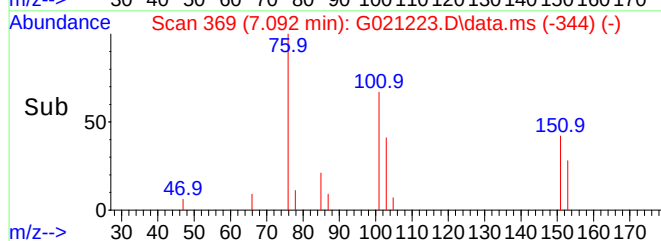
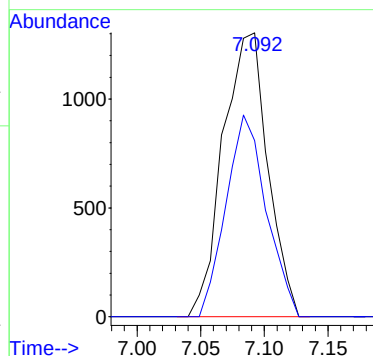
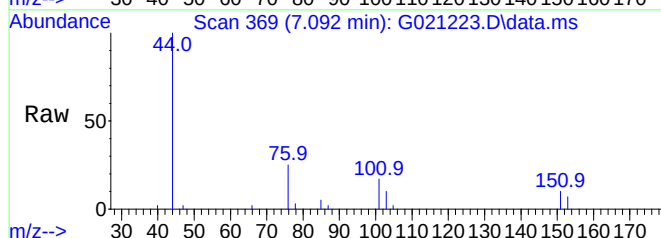
Tgt Ion: 49 Resp: 20341
Ion Ratio Lower Upper
49 100
84 84.7 45.2 85.2
86 53.6 21.4 61.4





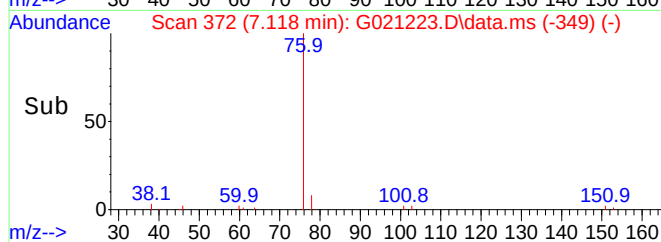
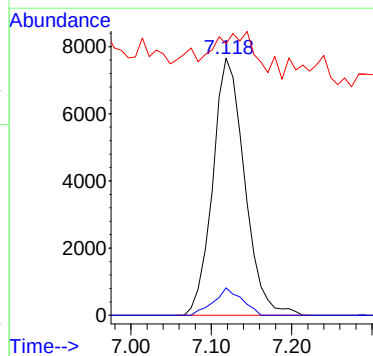
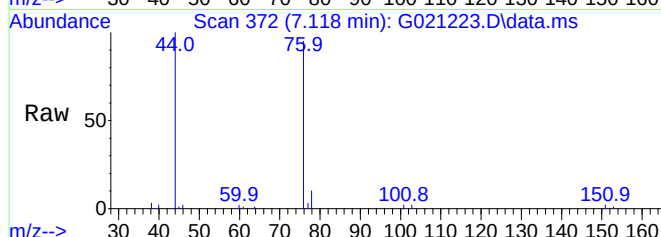
#16
FREON 113
Concen: 0.06 PPBV
RT: 7.092 min Scan# 369
Delta R.T. 0.017 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

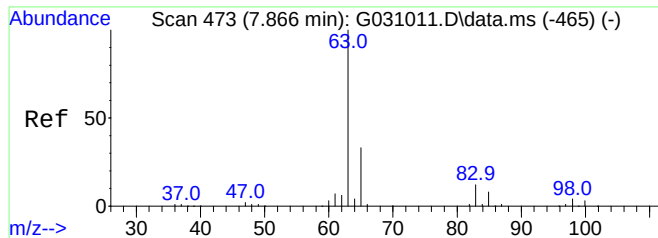
Tgt Ion: 101 Resp: 3193
Ion Ratio Lower Upper
101 100
151 64.0 46.3 86.3



#17
CARBON DISULFIDE
Concen: 0.25 PPBV
RT: 7.118 min Scan# 372
Delta R.T. -0.000 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

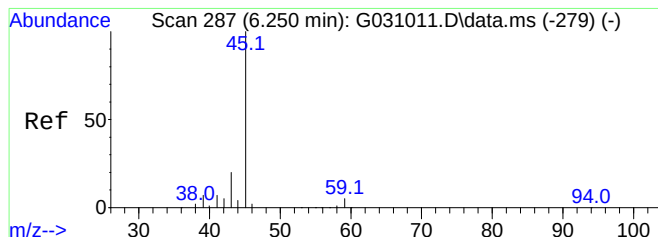
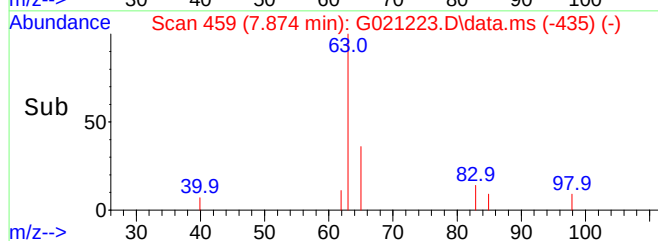
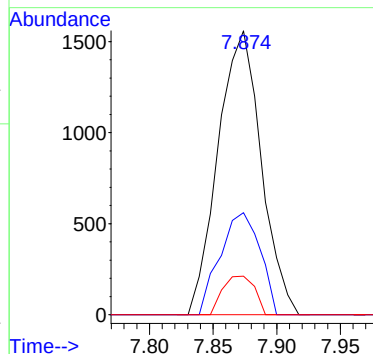
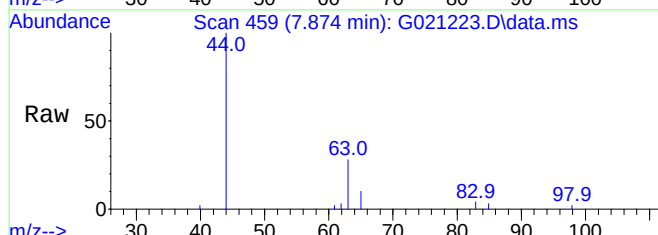
Tgt Ion: 76 Resp: 21095
Ion Ratio Lower Upper
76 100
78 9.3 0.0 30.7
44 19.9 0.0 33.4





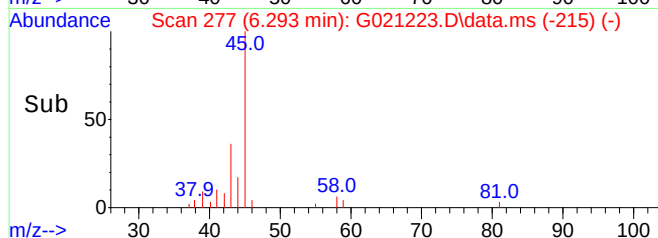
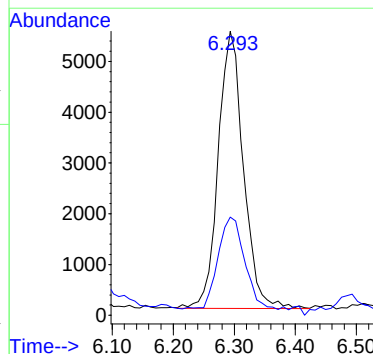
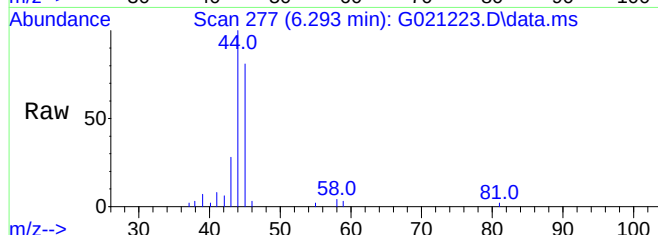
#19
1,1-DICHLOROETHANE
Concen: 0.07 PPBV
RT: 7.874 min Scan# 459
Delta R.T. 0.008 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

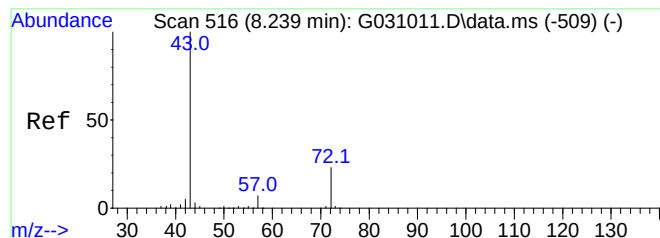
Tgt Ion: 63 Resp: 3678
Ion Ratio Lower Upper
63 100
65 33.3 11.8 51.8
83 10.0 0.0 31.5



#21
IPA
Concen: 0.51 PPBV
RT: 6.293 min Scan# 277
Delta R.T. 0.043 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

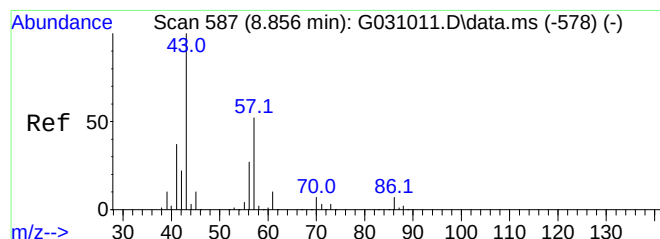
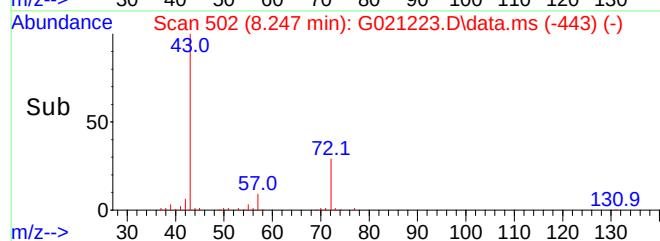
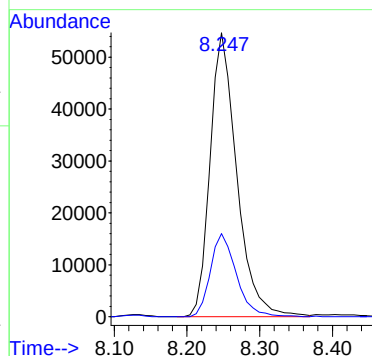
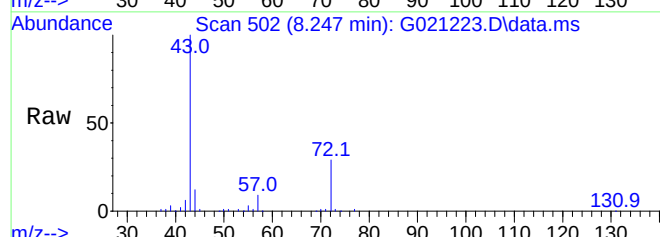
Tgt Ion: 45 Resp: 15661
Ion Ratio Lower Upper
45 100
43 34.9 0.6 40.6





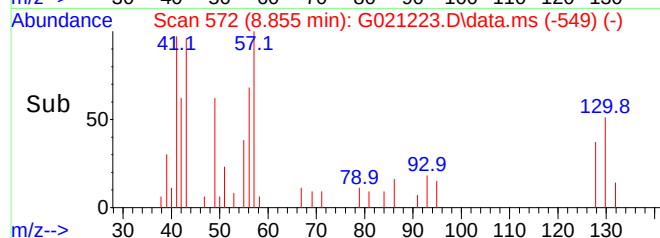
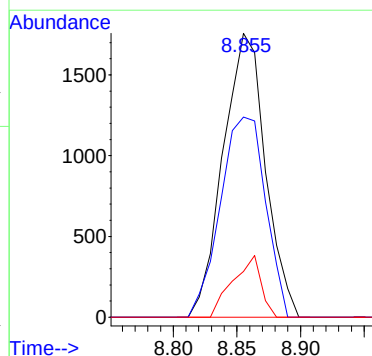
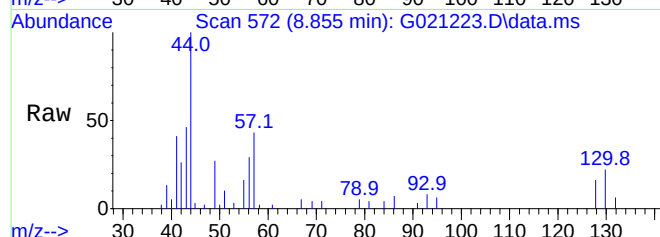
#22
2-BUTANONE (MEK)
Concen: 2.36 PPBV
RT: 8.247 min Scan# 502
Delta R.T. 0.008 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

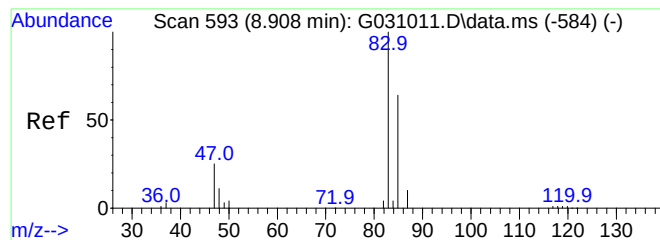
Tgt Ion: 43 Resp: 139868
Ion Ratio Lower Upper
43 100
72 28.4 2.6 42.6



#25
HEXANE
Concen: 0.13 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.001 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

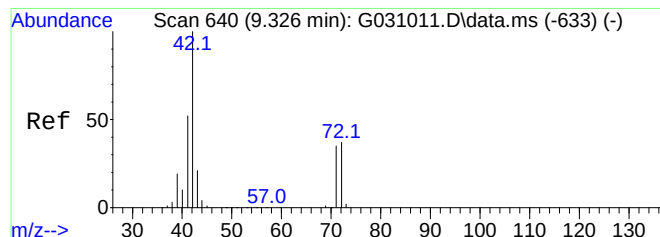
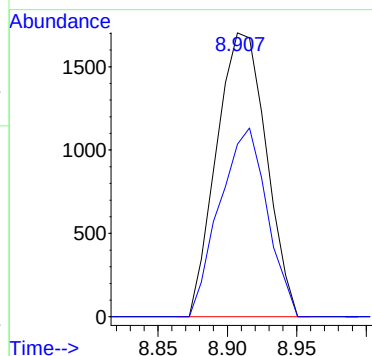
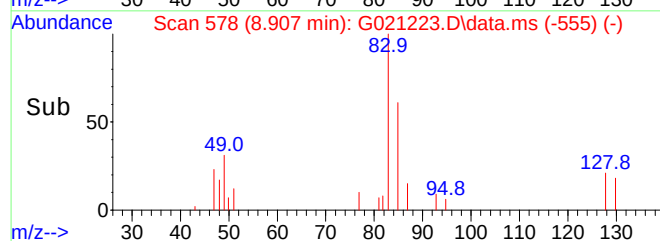
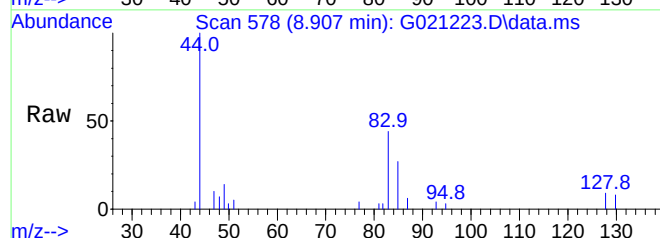
Tgt Ion: 41 Resp: 4063
Ion Ratio Lower Upper
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56 75.4 50.8 90.8
86 14.6 9.6 29.6





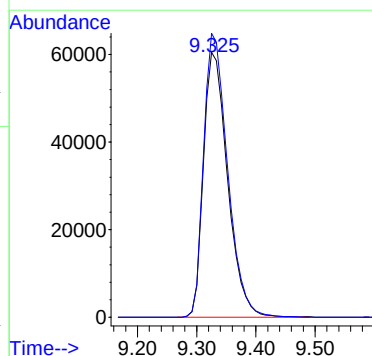
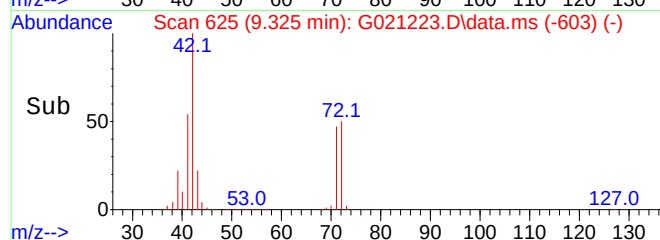
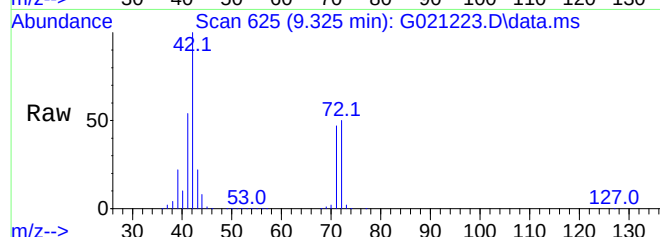
#27
CHLOROFORM
Concen: 0.07 PPBV
RT: 8.907 min Scan# 578
Delta R.T. -0.001 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

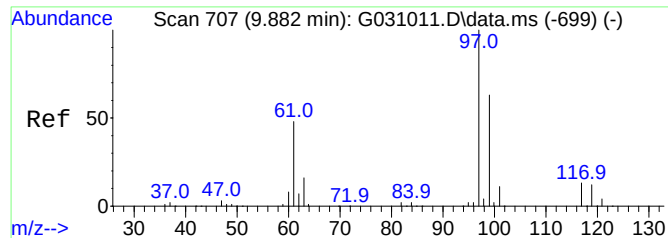
Tgt Ion: 83 Resp: 4240
Ion Ratio Lower Upper
83 100
85 63.7 44.9 84.9



#28
TETRAHYDROFURAN
Concen: 12.62 PPBV
RT: 9.325 min Scan# 625
Delta R.T. -0.001 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

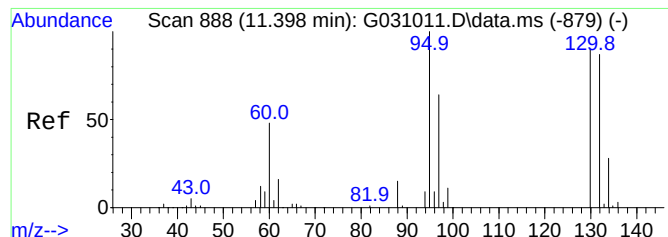
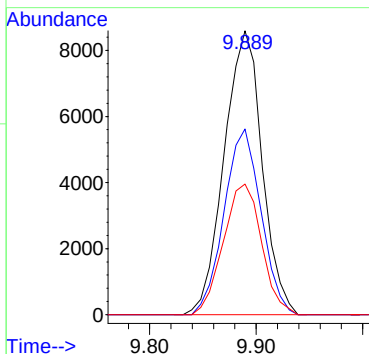
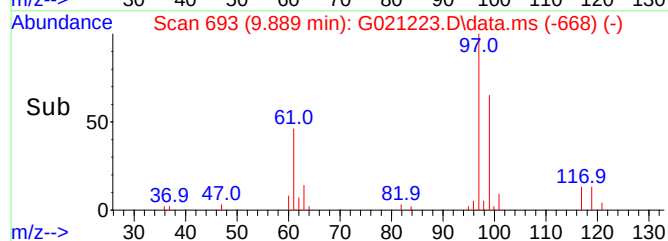
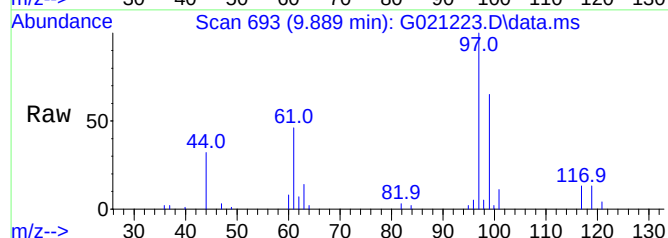
Tgt Ion: 71 Resp: 171293
Ion Ratio Lower Upper
71 100
72 106.6 86.9 126.9





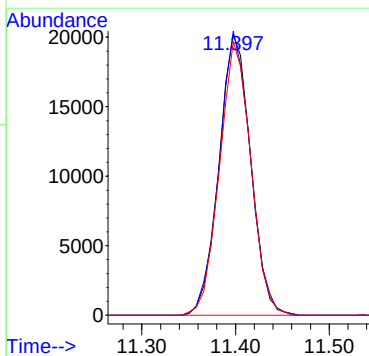
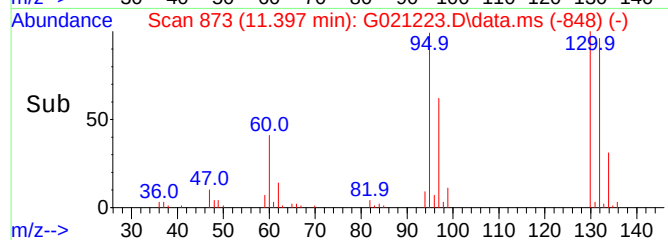
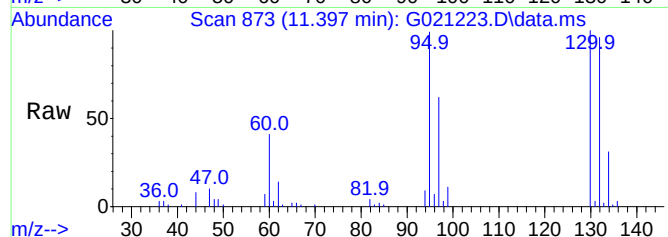
#31
1,1,1-TRICHLOROETHANE
Concen: 0.34 PPBV
RT: 9.889 min Scan# 693
Delta R.T. 0.008 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

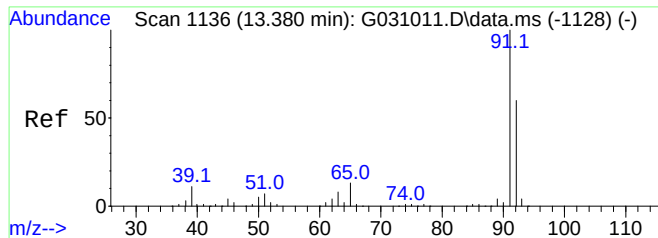
Tgt Ion: 97 Resp: 21300
Ion Ratio Lower Upper
97 100
99 63.6 43.7 83.7
61 46.4 28.6 68.6



#37
TRICHLOROETHENE
Concen: 1.01 PPBV
RT: 11.397 min Scan# 873
Delta R.T. -0.001 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

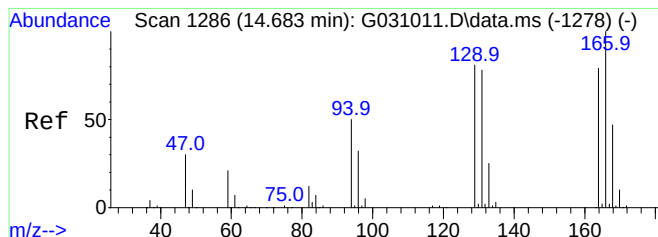
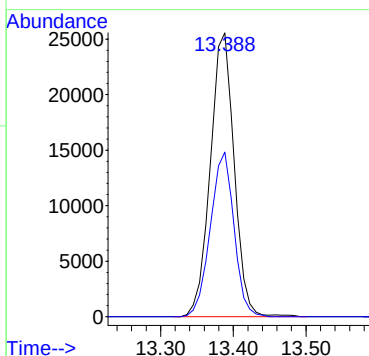
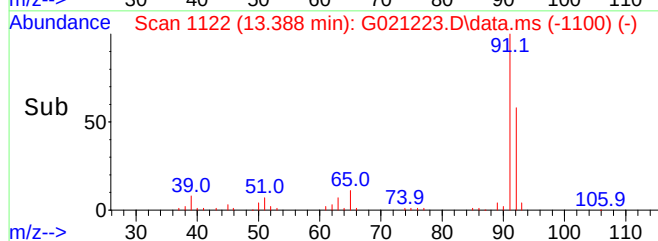
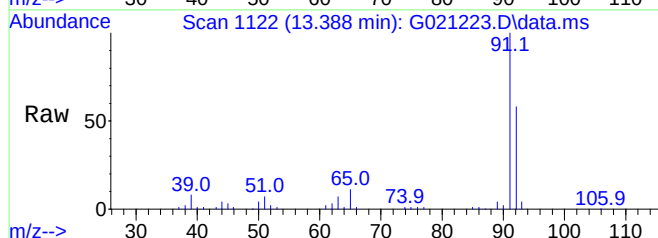
Tgt Ion: 95 Resp: 47573
Ion Ratio Lower Upper
95 100
130 99.2 71.2 111.2
132 96.0 66.9 106.9





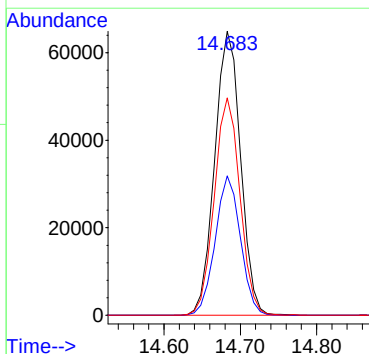
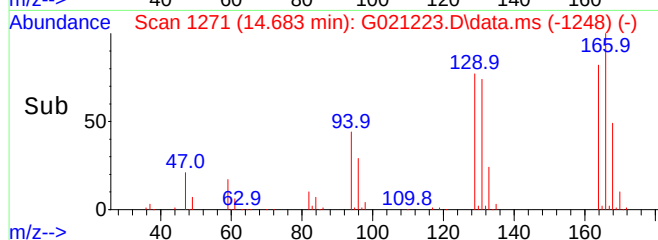
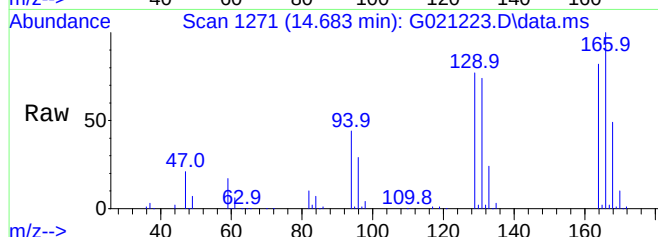
#46
TOLUENE
Concen: 0.46 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

Tgt Ion: 91 Resp: 58360
Ion Ratio Lower Upper
91 100
92 57.3 39.7 79.7



#50
TETRACHLOROETHENE
Concen: 2.80 PPBV
RT: 14.683 min Scan# 1271
Delta R.T. -0.001 min
Lab File: G021223.D
Acq: 13 Feb 2012 4:18 pm

Tgt Ion: 166 Resp: 153426
Ion Ratio Lower Upper
166 100
168 47.8 27.0 67.0
129 75.7 60.6 100.6



Data File : C:\msdchem\1\data\G021212\G021223.D
Acq On : 13 Feb 2012 4:18 pm
Sample : 12B0323-23 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:58 2012

Vial: 16
Operator: TPH
Inst : SYSG
Multiplr: 1.00

529

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	934410	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	169414	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	616503	9.62	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	120.25%

Target Compounds	Qvalue

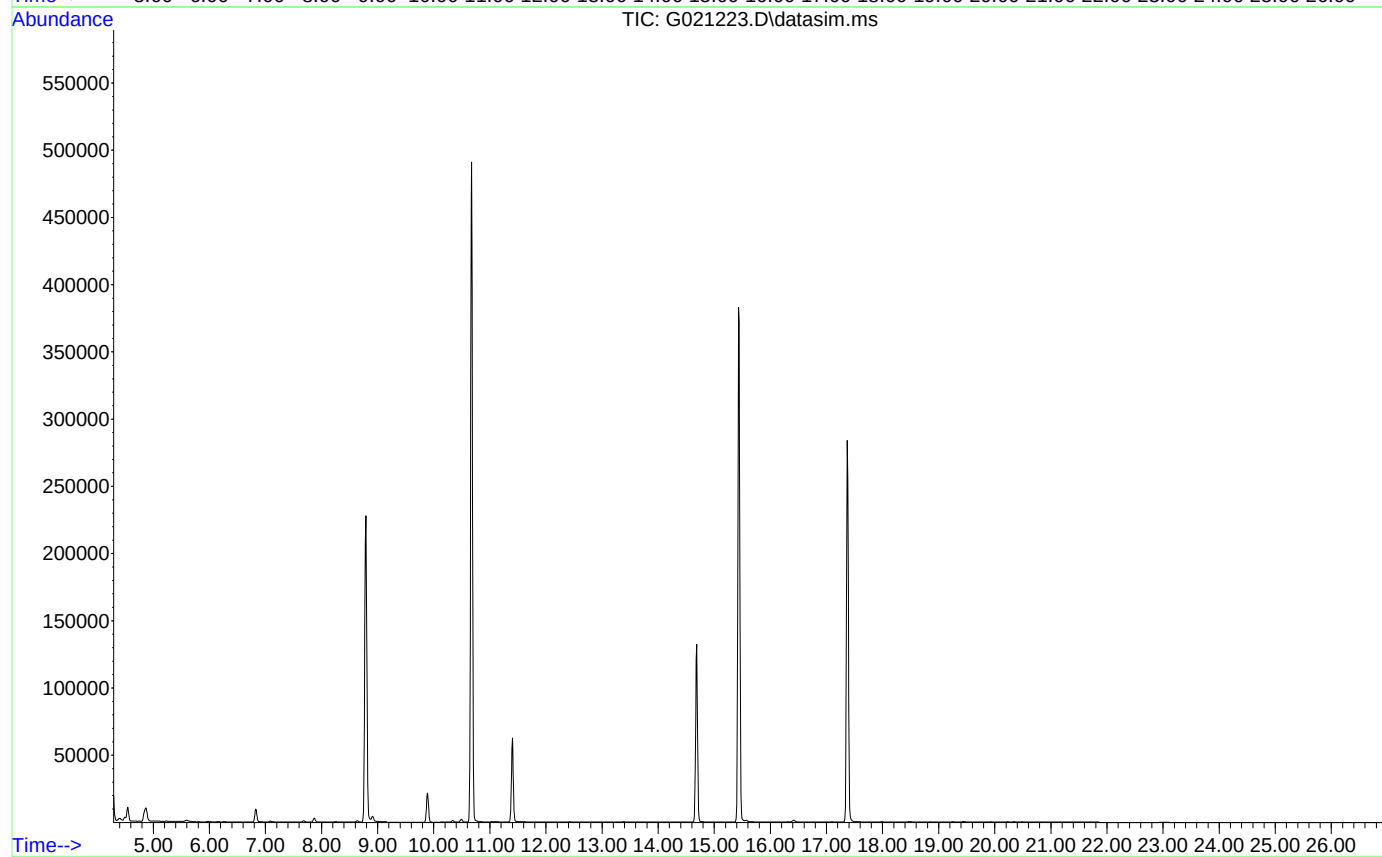
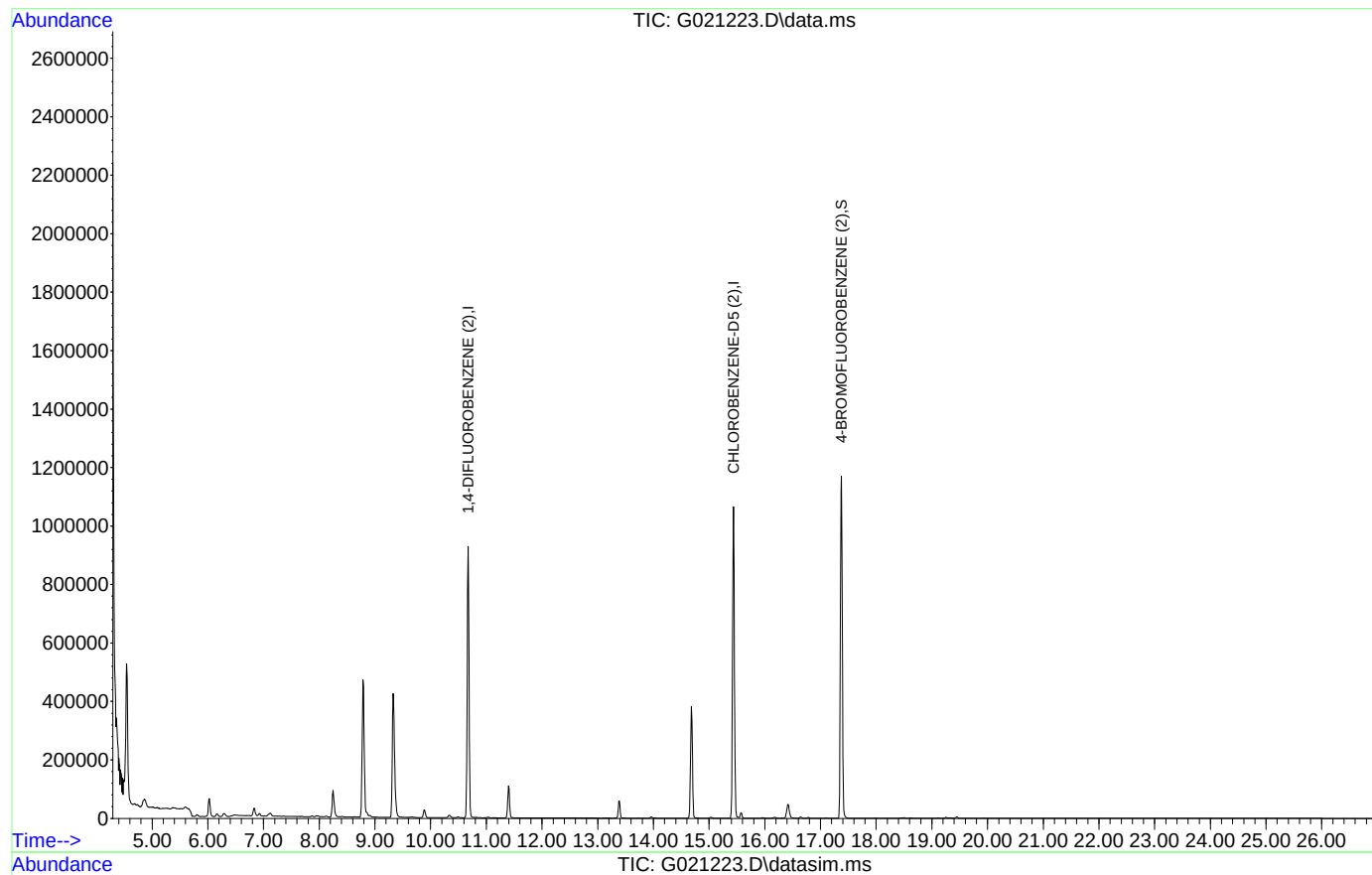
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021223.D
Acq On : 13 Feb 2012 4:18 pm
Sample : 12B0323-23 2X
Misc : 2,1,400,400,2X
Quant Time: Feb 14 12:56:58 2012

Vial: 16
Operator: TPH
Inst : SYSG
Multiplr: 1.00

530

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-11

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-24 File ID: G021421.D
 Sampled: 02/08/12 17:35 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 02:07
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	0.19	0.018	0.035	
100-44-7	Benzyl chloride		0.0063	0.035	
75-27-4	Bromodichloromethane		0.0098	0.035	
75-25-2	Bromoform		0.0091	0.035	
74-83-9	Bromomethane		0.034	0.035	
78-93-3	2-Butanone (MEK)		0.027	1.4	
75-65-0	tert-Butyl Alcohol (TBA)		0.054	0.14	
56-23-5	Carbon Tetrachloride	0.065	0.0098	0.035	
108-90-7	Chlorobenzene		0.029	0.035	
75-00-3	Chloroethane		0.020	0.035	
67-66-3	Chloroform		0.013	0.035	
74-87-3	Chloromethane	0.49	0.018	0.035	
110-82-7	Cyclohexane		0.034	0.035	
124-48-1	Dibromochloromethane		0.0084	0.035	
106-93-4	1,2-Dibromoethane (EDB)		0.0098	0.035	
95-50-1	1,2-Dichlorobenzene		0.018	0.035	
541-73-1	1,3-Dichlorobenzene		0.0098	0.035	
106-46-7	1,4-Dichlorobenzene		0.0091	0.035	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.54	0.015	0.035	
75-34-3	1,1-Dichloroethane		0.011	0.035	
107-06-2	1,2-Dichloroethane		0.012	0.035	
75-35-4	1,1-Dichloroethylene		0.011	0.035	
156-59-2	cis-1,2-Dichloroethylene		0.0098	0.035	
156-60-5	trans-1,2-Dichloroethylene		0.012	0.035	
78-87-5	1,2-Dichloropropane		0.014	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-11

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Indoor air Laboratory ID: 12B0323-24 File ID: G021421.D
 Sampled: 02/08/12 17:35 Prepared: 02/14/12 10:43 Analyzed: 02/15/12 02:07
 Solids: Preparation: TO-15 Prep Dilution: 0.702
 Initial/Final: 400 mL / 400 mL
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0070	0.035	
10061-02-6	trans-1,3-Dichloropropene		0.0070	0.035	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.027	0.035	
123-91-1	1,4-Dioxane		0.018	0.035	
64-17-5	Ethanol	4.2	0.17	1.4	
100-41-4	Ethylbenzene		0.0098	0.035	
87-68-3	Hexachlorobutadiene		0.013	0.035	
110-54-3	Hexane		0.031	1.4	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0098	0.035	
75-09-2	Methylene Chloride	0.42	0.045	0.35	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.072	0.011	0.035	
100-42-5	Styrene		0.0077	0.035	
79-34-5	1,1,2,2-Tetrachloroethane		0.012	0.035	
127-18-4	Tetrachloroethylene		0.011	0.035	
108-88-3	Toluene	0.23	0.0098	0.035	
120-82-1	1,2,4-Trichlorobenzene		0.013	0.070	
71-55-6	1,1,1-Trichloroethane		0.012	0.035	
79-00-5	1,1,2-Trichloroethane		0.011	0.035	
79-01-6	Trichloroethylene		0.0098	0.035	
75-69-4	Trichlorofluoromethane (Freon 11)	0.21	0.022	0.035	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.082	0.012	0.035	
95-63-6	1,2,4-Trimethylbenzene		0.012	0.035	
108-67-8	1,3,5-Trimethylbenzene		0.011	0.035	
540-84-1	2,2,4-Trimethylpentane		0.030	0.094	V-05
75-01-4	Vinyl Chloride		0.018	0.035	

1 - FORM I

ANALYSIS DATA SHEET

PMF-MSBA-IA-11

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323				
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY				
Matrix:	Indoor air	Laboratory ID:	12B0323-24	File ID:	G021421.D		
Sampled:	02/08/12 17:35	Prepared:	02/14/12 10:43	Analyzed:	02/15/12 02:07		
Solids:		Preparation:	TO-15 Prep	Dilution:	0.702		
Initial/Final:	400 mL / 400 mL						
Batch:	B046247	Sequence:	S001781	Calibration:	1200017	Instrument:	SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
1330-20-7P/M	m&p-Xylene		0.018	0.070	
95-47-6	o-Xylene		0.0091	0.035	

Data File : C:\msdchem\1\data\G021412\G021421.D
 Acq On : 15 Feb 2012 2:07 am
 Sample : 12B0323-24 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:00:40 2012

Vial: 13
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	321812	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1040348	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	927937	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	527457	8.35	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.38%
Target Compounds						
3) DICHLORODIFLUOROMETHANE	4.549	85	48864	0.775	PPBV	Qvalue 99
4) CHLOROMETHANE	4.703	50	12723	0.702	PPBV	100
10) ACROLEIN	5.903	56	1691	0.224	PPBV	84
11) ACETONE	6.033	43	78529	2.509	PPBV	88
12) TRICHLOROFLUOROMETHANE	6.163	101	15100	0.300	PPBV	98
13) ETHANOL	5.608	45	39377	5.979	PPBV	95
15) METHYLENE CHLORIDE	6.832	49	20926	0.597	PPBV	77
16) FREON 113	7.084	101	6675	0.117	PPBV	94
21) IPA	6.302	45	23177	0.704	PPBV	72
22) 2-BUTANONE(MEK)	8.282	43	14362	0.226	PPBV	90
25) HEXANE	8.855	41	8986	0.273	PPBV	92
32) BENZENE	10.338	78	34184	0.265	PPBV	96
33) CARBON TETRACHLORIDE	10.488	117	5730	0.093	PPBV	96
41) MIBK	12.412	43	9961	0.103	PPBV	92
46) TOLUENE	13.388	91	44964	0.322	PPBV	99
53) M/P-XYLENE	16.177	91	10458	0.075	PPBV	98

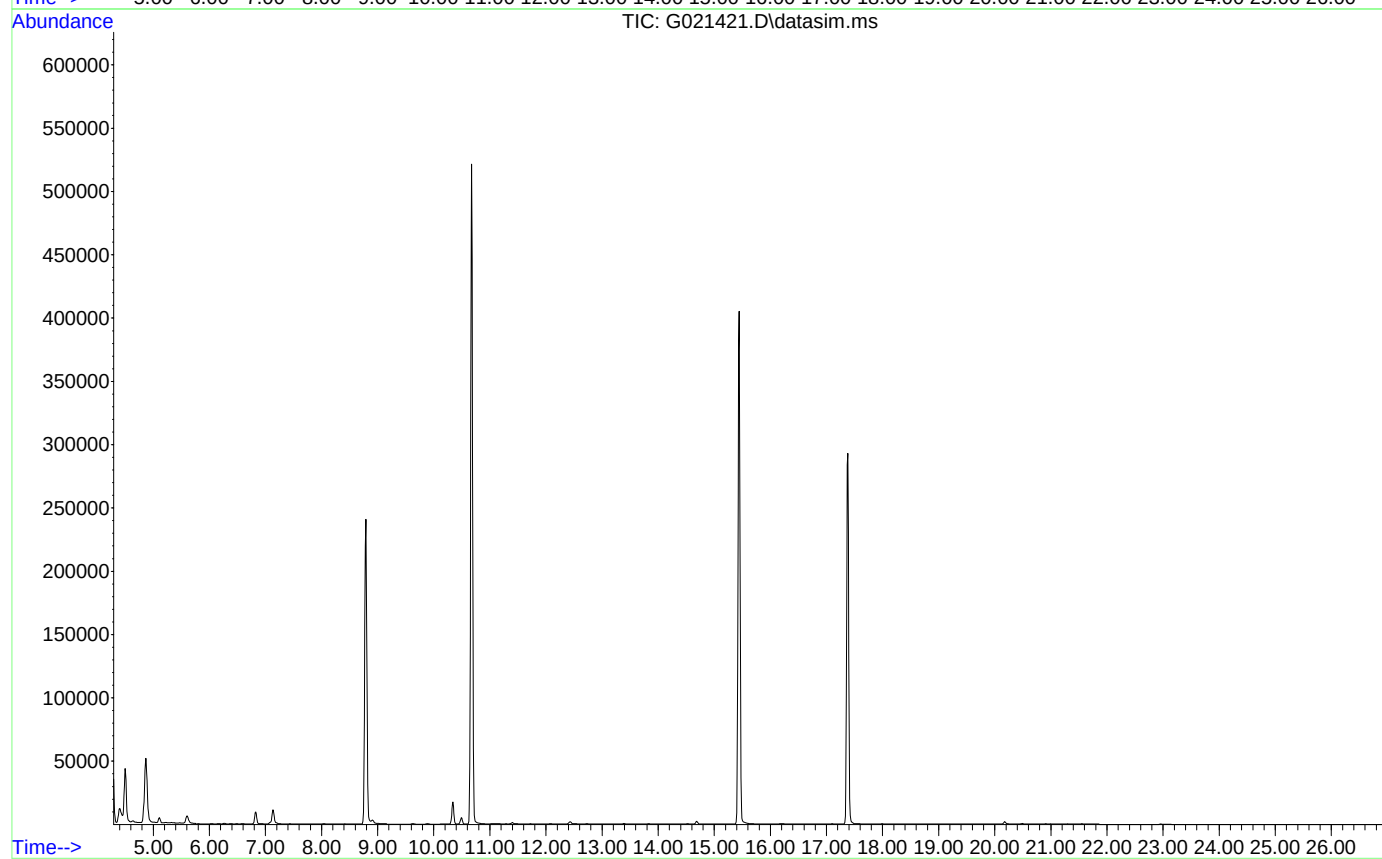
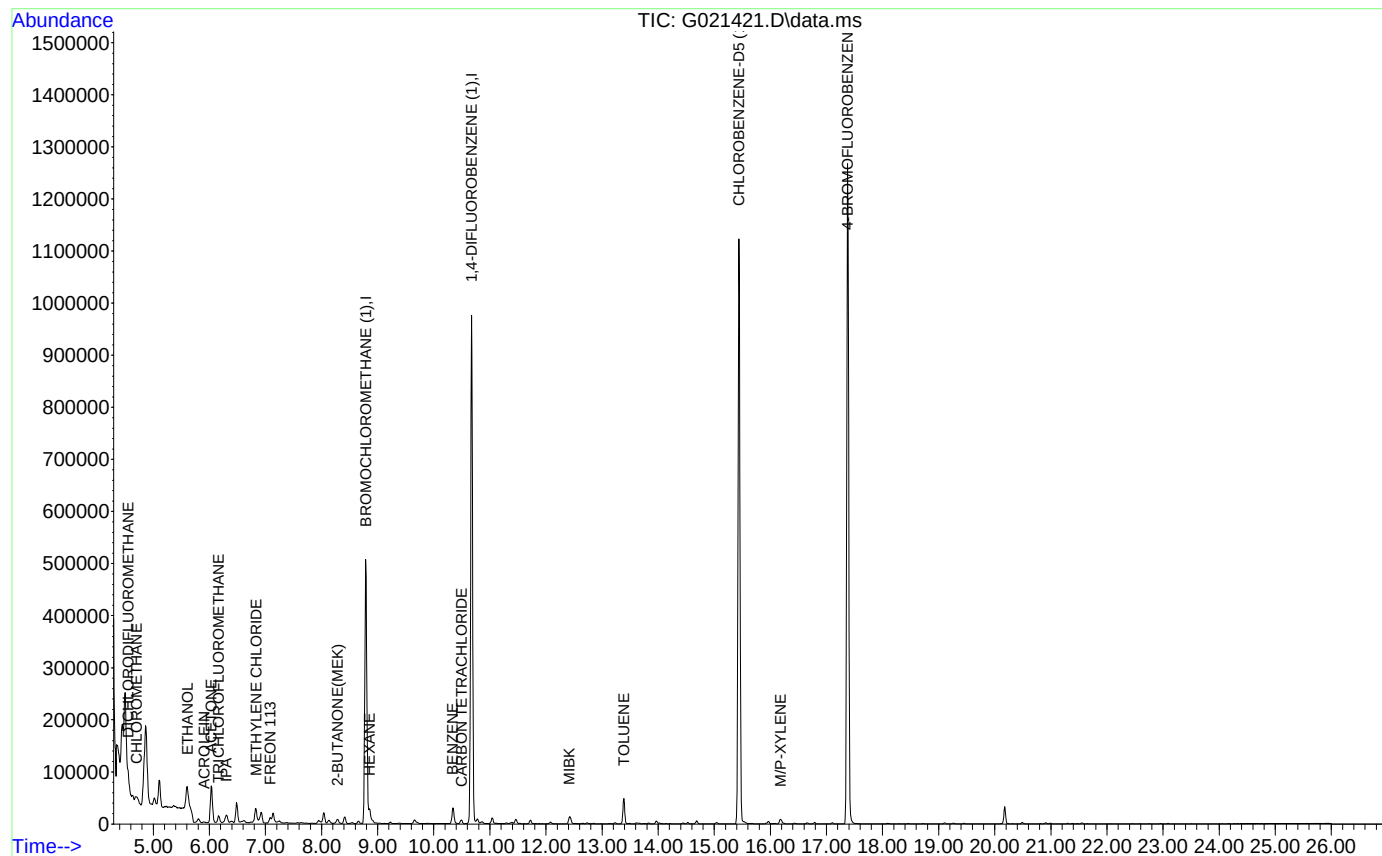
(#) = qualifier out of range (m) = manual integration (+) = signals summed

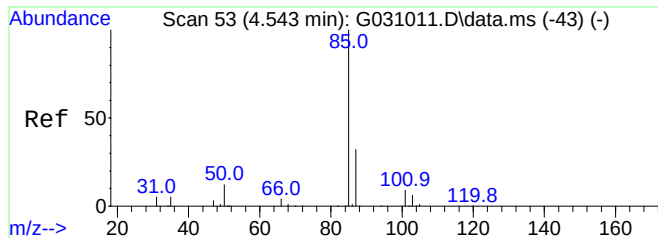
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Acq On : 15 Feb 2012 2:07 am
Sample : 12B0323-24 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:00:40 2012

Vial: 13
Operator: WSD
Inst : SYSG
Multiplr: 1.00

535

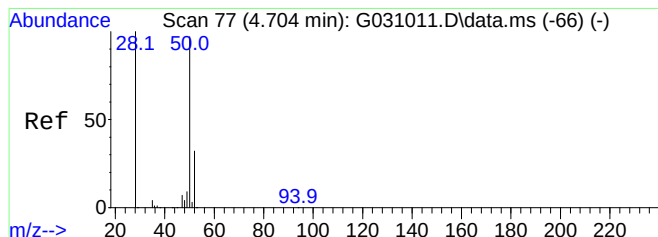
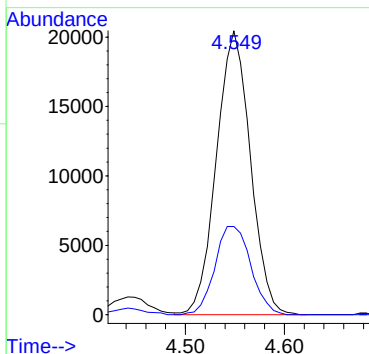
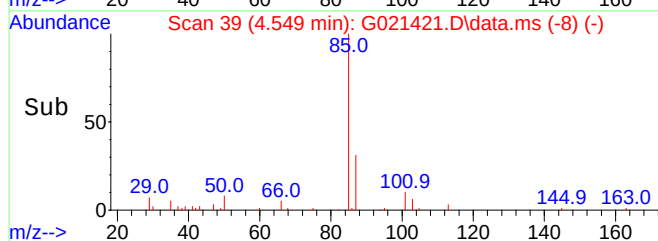
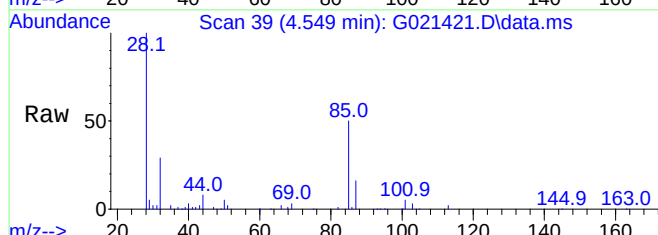
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





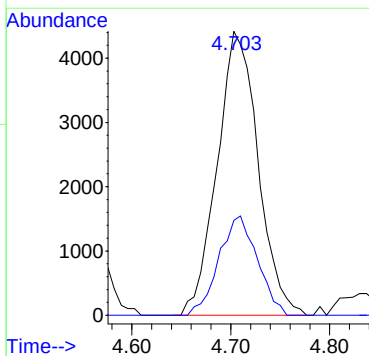
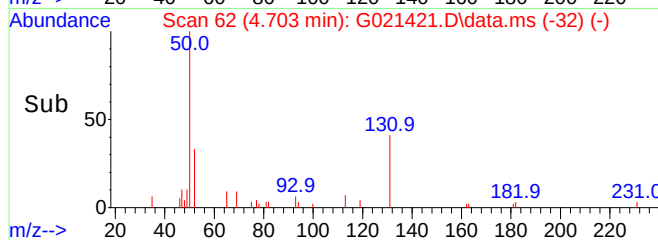
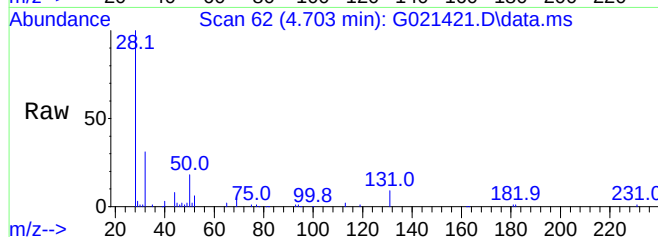
#3
DICHLORODIFLUOROMETHANE
Concen: 0.77 PPBV
RT: 4.549 min Scan# 39
Delta R.T. 0.006 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

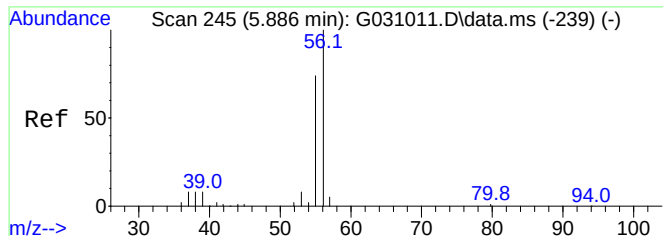
Tgt Ion: 85 Resp: 48864
Ion Ratio Lower Upper
85 100
87 32.9 12.1 52.1



#4
CHLOROMETHANE
Concen: 0.70 PPBV
RT: 4.703 min Scan# 62
Delta R.T. -0.000 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

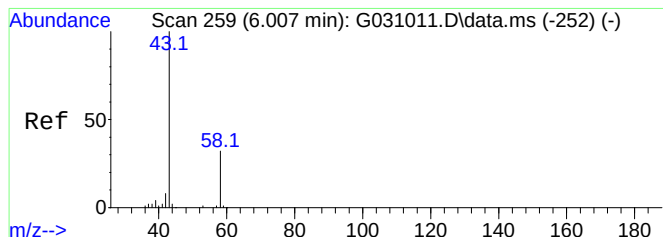
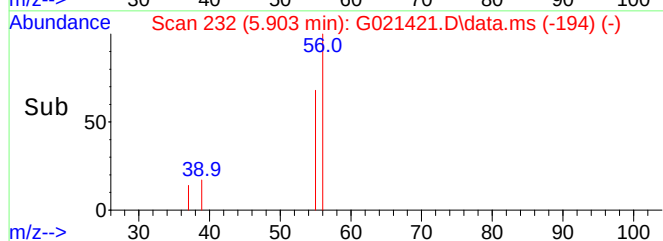
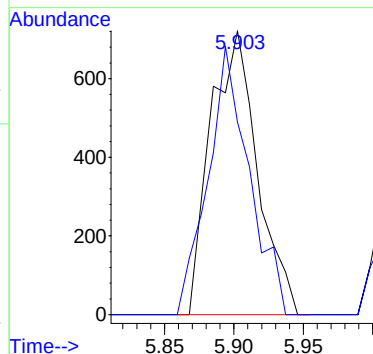
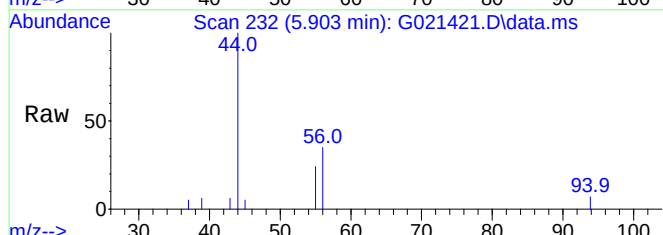
Tgt Ion: 50 Resp: 12723
Ion Ratio Lower Upper
50 100
52 32.8 12.8 52.8





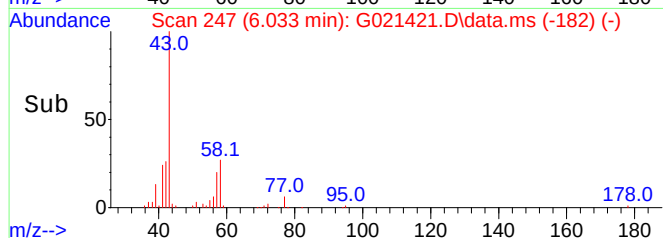
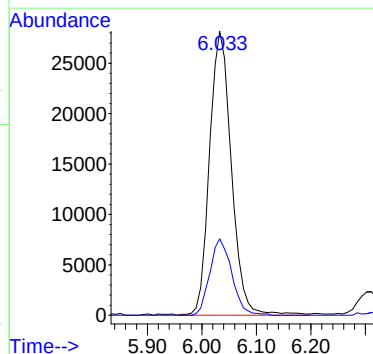
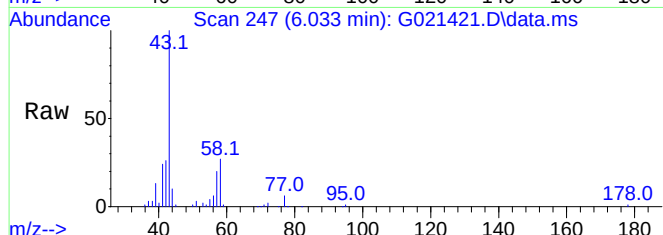
#10
ACROLEIN
Concen: 0.22 PPBV
RT: 5.903 min Scan# 232
Delta R.T. 0.018 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

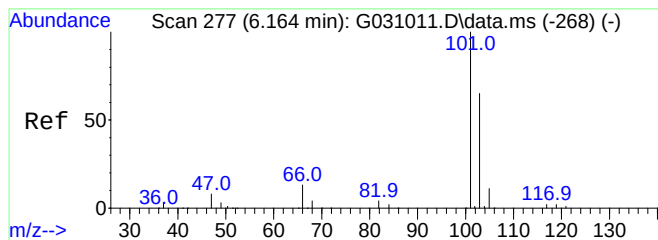
Tgt Ion: 56 Resp: 1691
Ion Ratio Lower Upper
56 100
55 82.9 56.1 84.1



#11
ACETONE
Concen: 2.51 PPBV
RT: 6.033 min Scan# 247
Delta R.T. 0.026 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

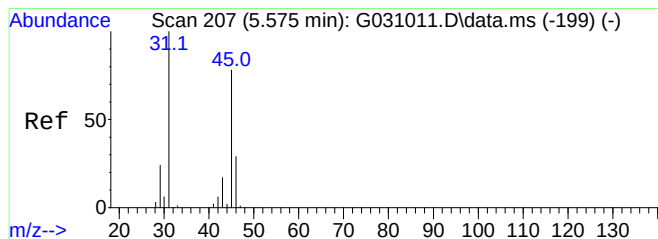
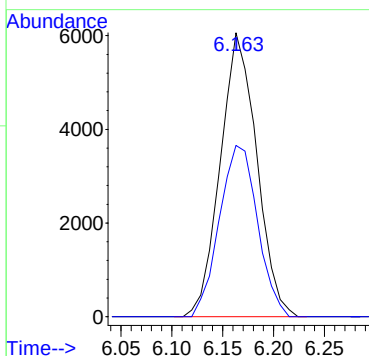
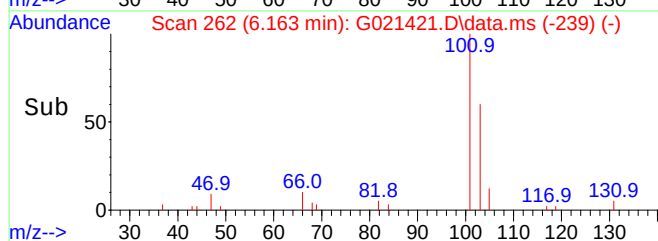
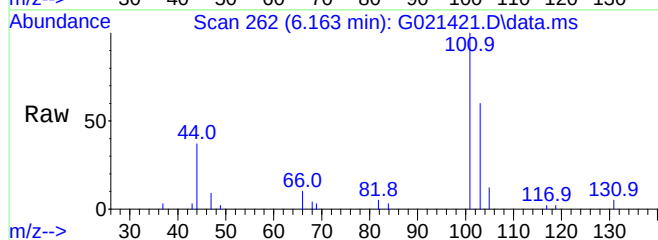
Tgt Ion: 43 Resp: 78529
Ion Ratio Lower Upper
43 100
58 27.0 13.9 53.9





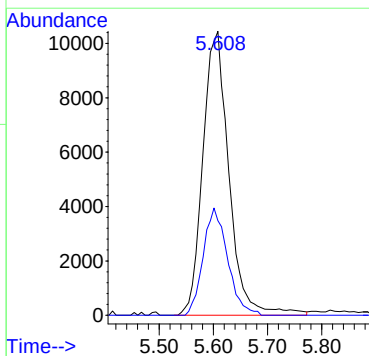
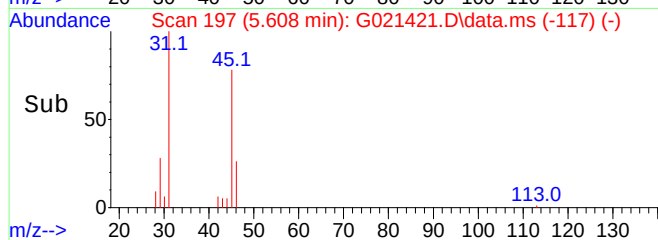
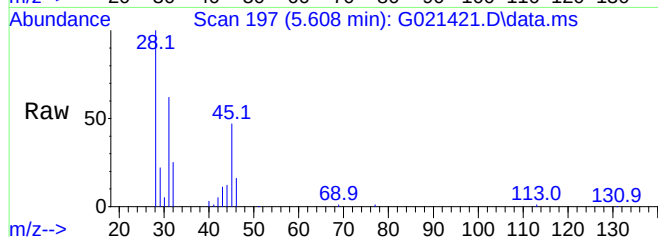
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.30 PPBV
 RT: 6.163 min Scan# 262
 Delta R.T. -0.001 min
 Lab File: G021421.D
 Acq: 15 Feb 2012 2:07 am

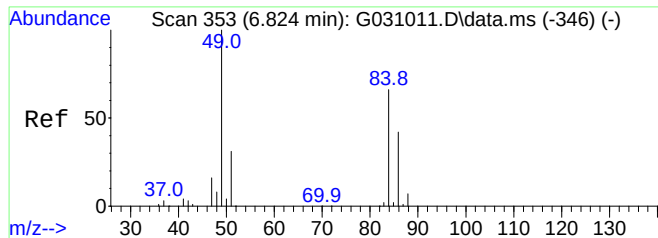
Tgt Ion: 101 Resp: 15100
 Ion Ratio Lower Upper
 101 100
 103 63.1 44.8 84.8



#13
 ETHANOL
 Concen: 5.98 PPBV
 RT: 5.608 min Scan# 197
 Delta R.T. 0.034 min
 Lab File: G021421.D
 Acq: 15 Feb 2012 2:07 am

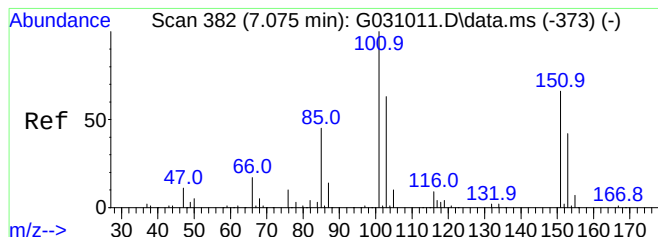
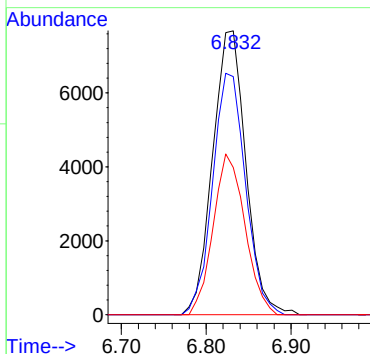
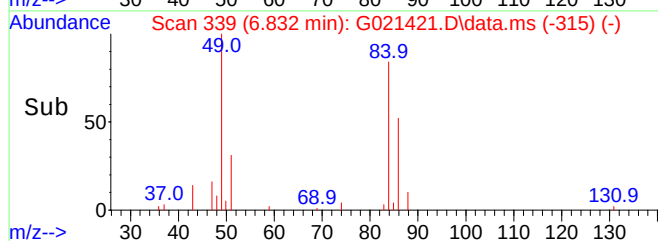
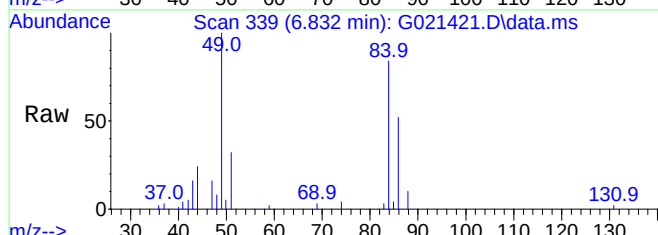
Tgt Ion: 45 Resp: 39377
 Ion Ratio Lower Upper
 45 100
 46 31.2 14.0 54.0





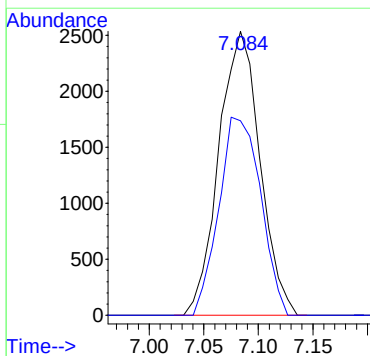
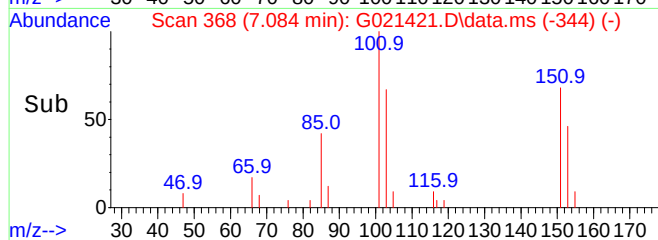
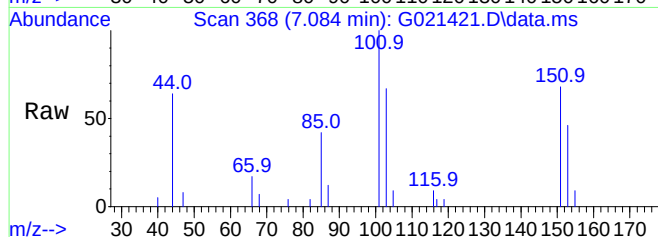
#15
METHYLENE CHLORIDE
Concen: 0.60 PPBV
RT: 6.832 min Scan# 339
Delta R.T. 0.009 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

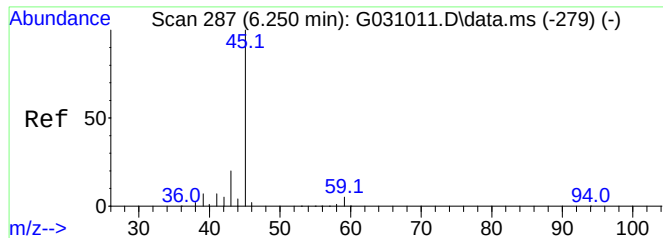
Tgt Ion: 49 Resp: 20926
Ion Ratio Lower Upper
49 100
84 84.3 45.2 85.2
86 54.2 21.4 61.4



#16
FREON 113
Concen: 0.12 PPBV
RT: 7.084 min Scan# 368
Delta R.T. 0.008 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

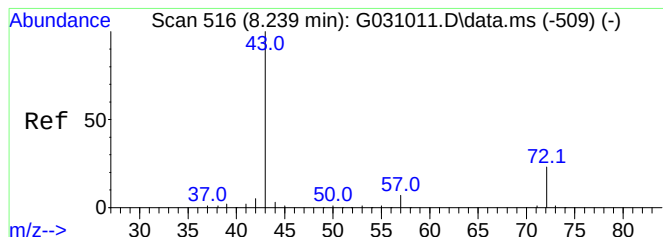
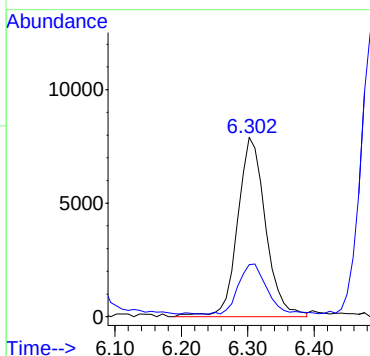
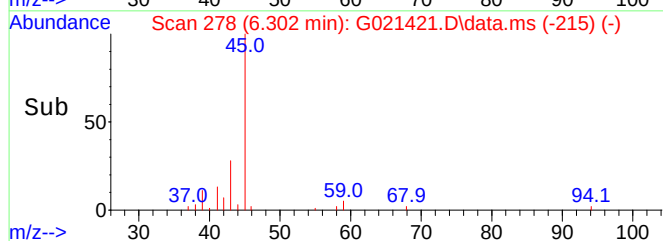
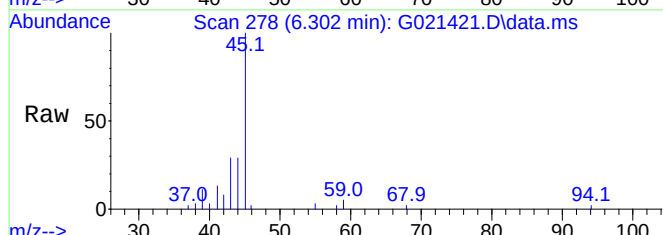
Tgt Ion: 101 Resp: 6675
Ion Ratio Lower Upper
101 100
151 70.7 46.3 86.3





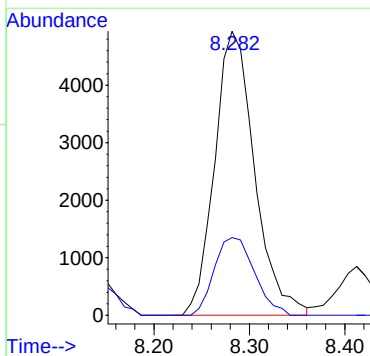
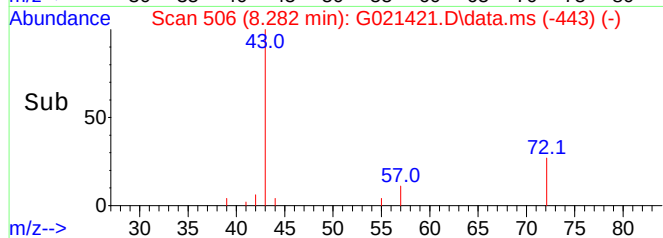
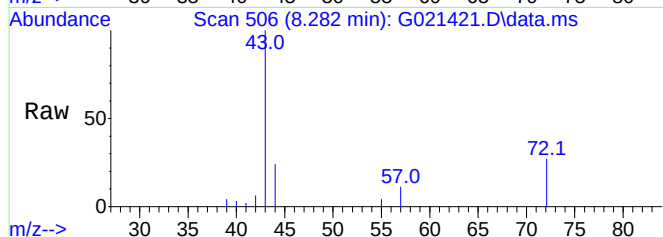
#21
IPA
Concen: 0.70 PPBV
RT: 6.302 min Scan# 278
Delta R.T. 0.052 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

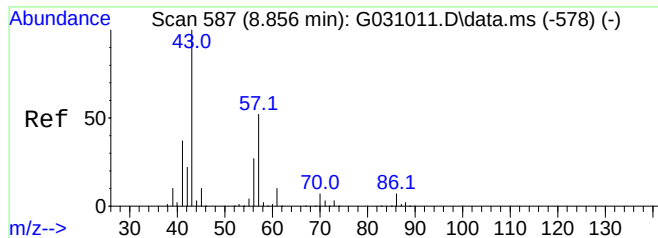
Tgt Ion: 45 Resp: 23177
Ion Ratio Lower Upper
45 100
43 33.7 0.6 40.6



#22
2-BUTANONE(MEK)
Concen: 0.23 PPBV
RT: 8.282 min Scan# 506
Delta R.T. 0.043 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

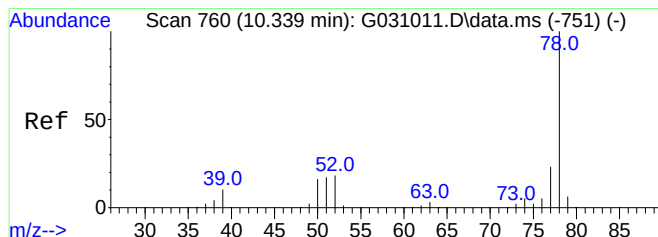
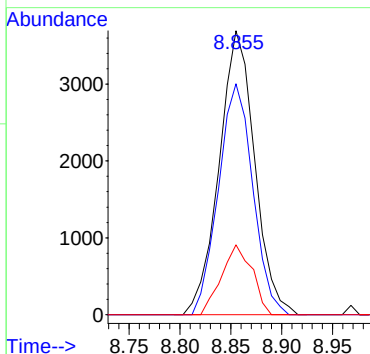
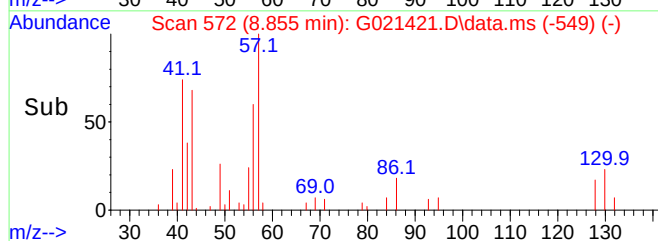
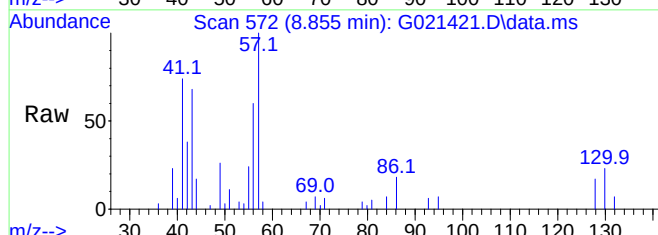
Tgt Ion: 43 Resp: 14362
Ion Ratio Lower Upper
43 100
72 27.5 2.6 42.6





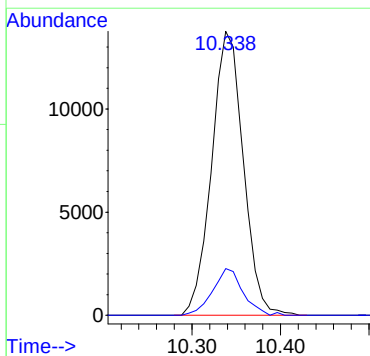
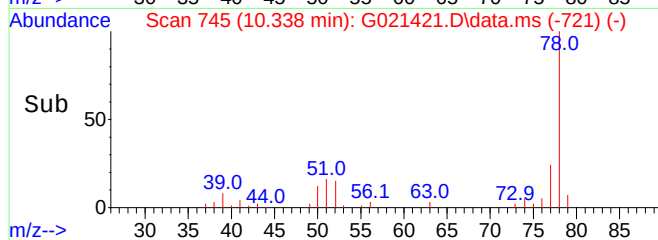
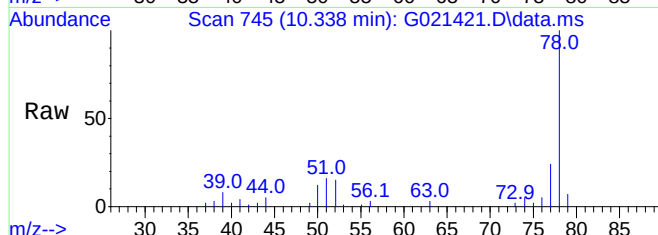
#25
HEXANE
Concen: 0.27 PPBV
RT: 8.855 min Scan# 572
Delta R.T. -0.001 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

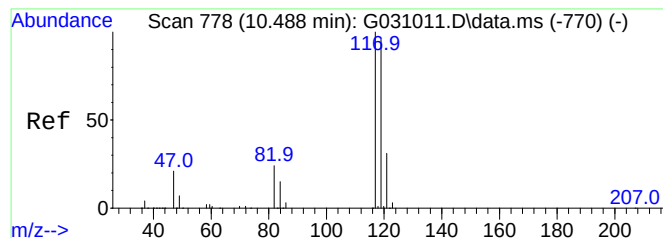
Tgt Ion: 41 Resp: 8986
Ion Ratio Lower Upper
41 100
56 78.5 50.8 90.8
86 21.2 9.6 29.6



#32
BENZENE
Concen: 0.27 PPBV
RT: 10.338 min Scan# 745
Delta R.T. -0.000 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

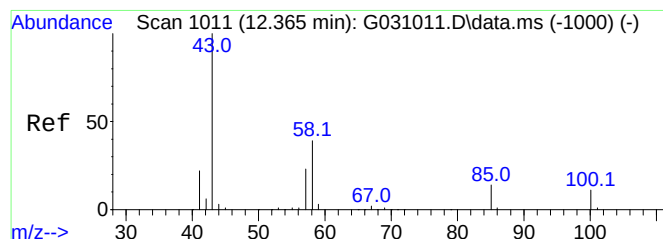
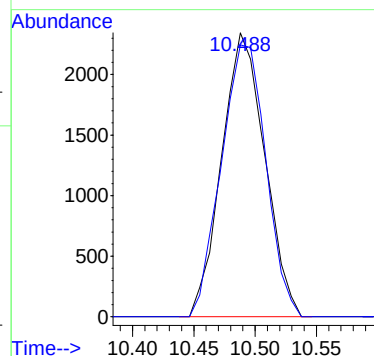
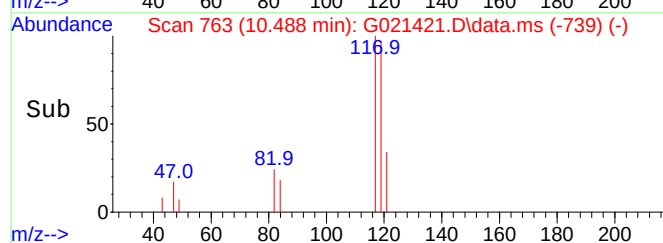
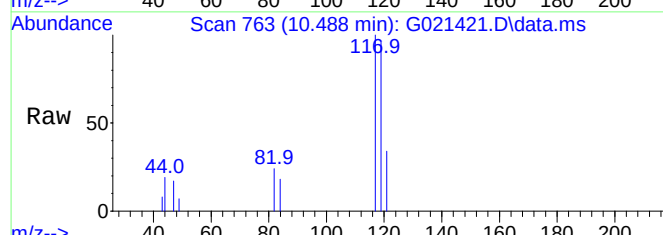
Tgt Ion: 78 Resp: 34184
Ion Ratio Lower Upper
78 100
51 15.8 0.0 37.6





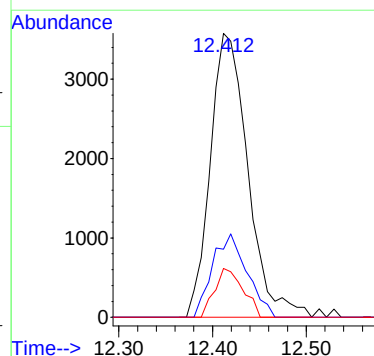
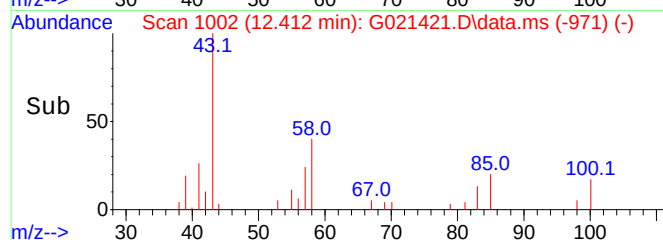
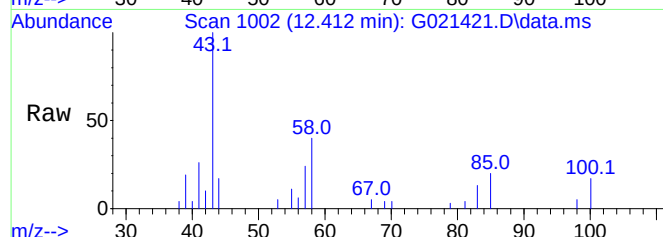
#33
CARBON TETRACHLORIDE
Concen: 0.09 PPBV
RT: 10.488 min Scan# 763
Delta R.T. -0.000 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

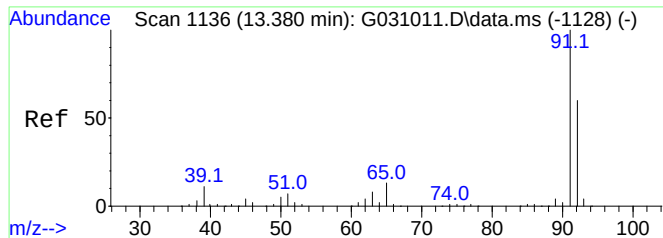
Tgt Ion: 117 Resp: 5730
Ion Ratio Lower Upper
117 100
119 99.2 75.4 115.4



#41
MIBK
Concen: 0.10 PPBV
RT: 12.412 min Scan# 1002
Delta R.T. 0.047 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

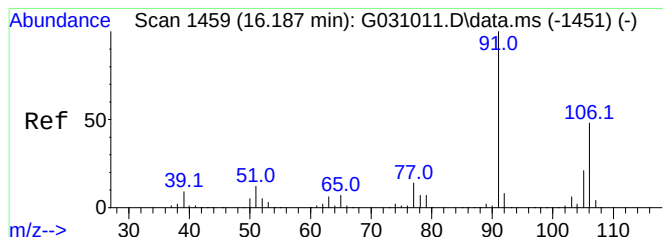
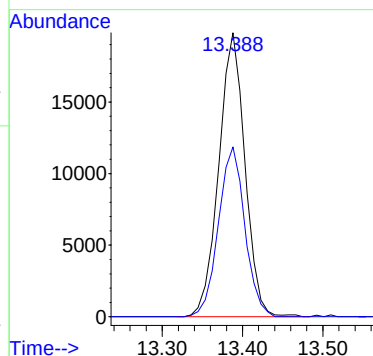
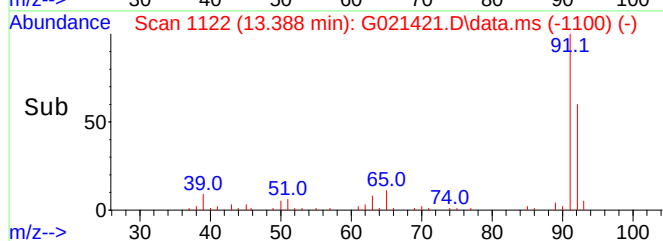
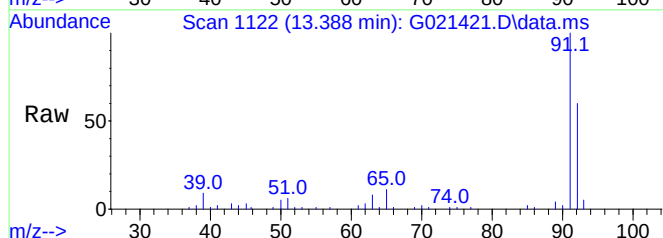
Tgt Ion: 43 Resp: 9961
Ion Ratio Lower Upper
43 100
57 27.0 2.8 42.8
100 13.0 1.0 21.0





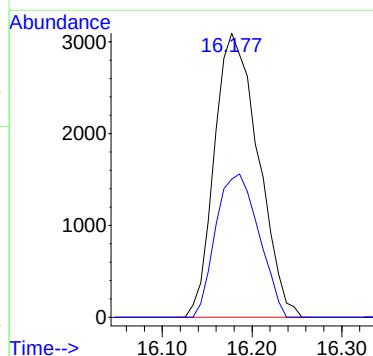
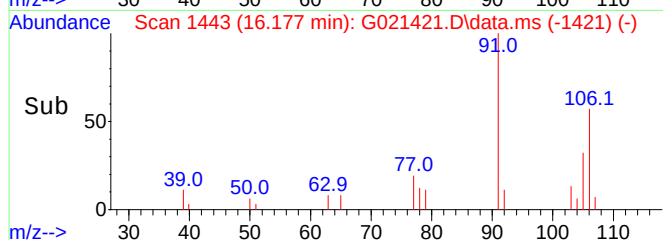
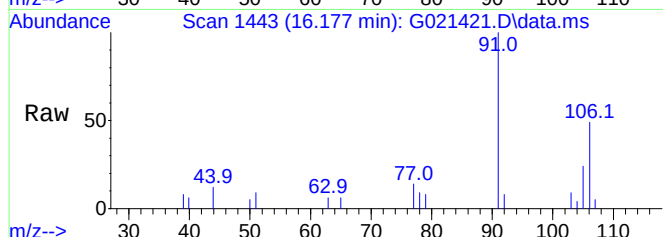
#46
TOLUENE
Concen: 0.32 PPBV
RT: 13.388 min Scan# 1122
Delta R.T. 0.008 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

Tgt Ion: 91 Resp: 44964
Ion Ratio Lower Upper
91 100
92 60.3 39.7 79.7



#53
M/P-XYLENE
Concen: 0.07 PPBV
RT: 16.177 min Scan# 1443
Delta R.T. -0.009 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

Tgt Ion: 91 Resp: 10458
Ion Ratio Lower Upper
91 100
106 49.6 28.3 68.3



Data File : C:\msdchem\1\data\G021412\G021421.D
 Acq On : 15 Feb 2012 2:07 am
 Sample : 12B0323-24 0.7x
 Misc : 1.5,1,400,855,0.7x
 Quant Time: Feb 15 12:10:29 2012

Vial: 13
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

544

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	1039793	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	177176	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	672243	10.03	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	125.37%
Target Compounds						
3) METHYL ACETATE	6.823	43	3859	0.068	PPBV	96
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	8039	0.054	PPBV	84
6) METHYLCYCLOHEXANE	12.435	83	3109	0.051	PPBV	82

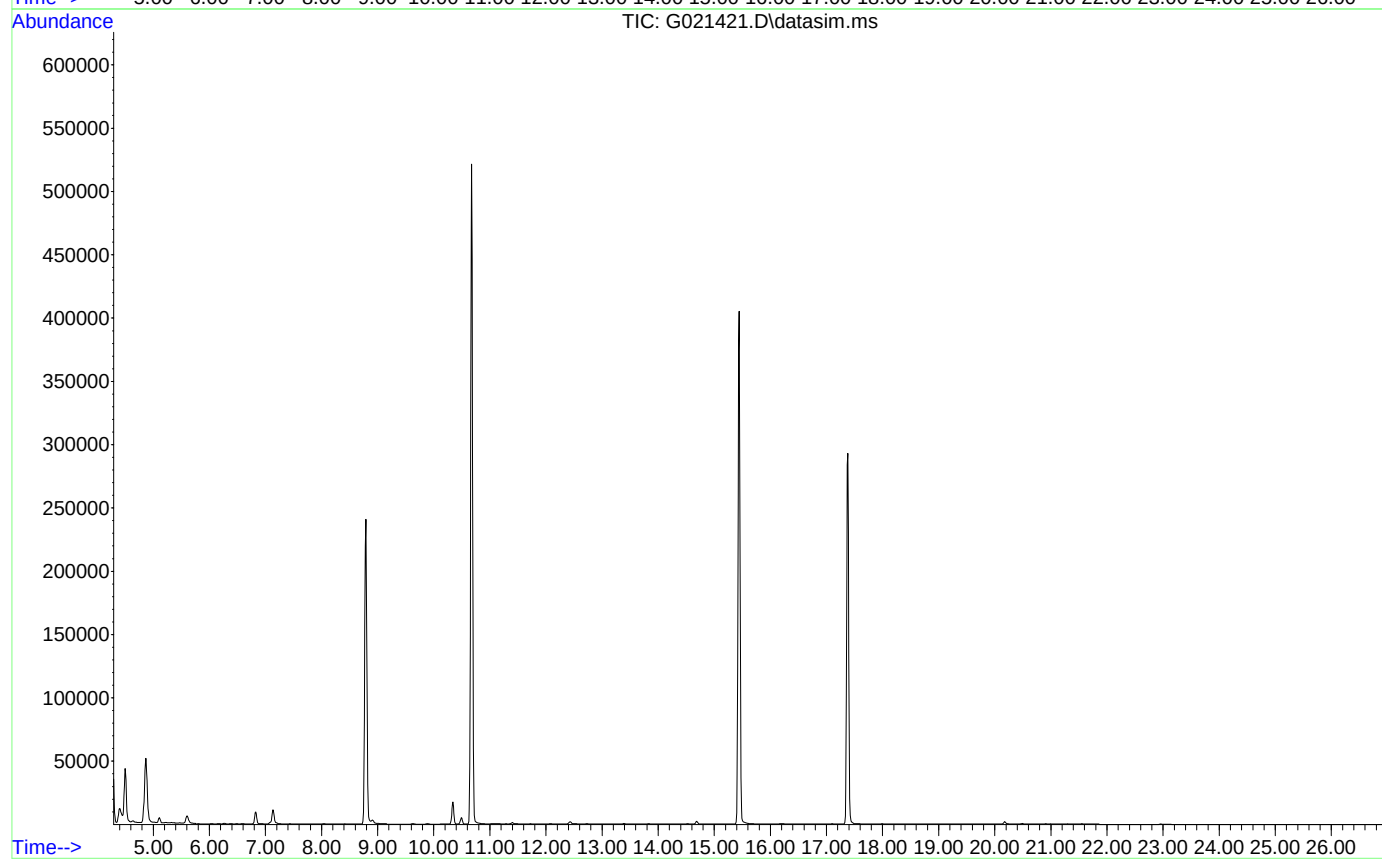
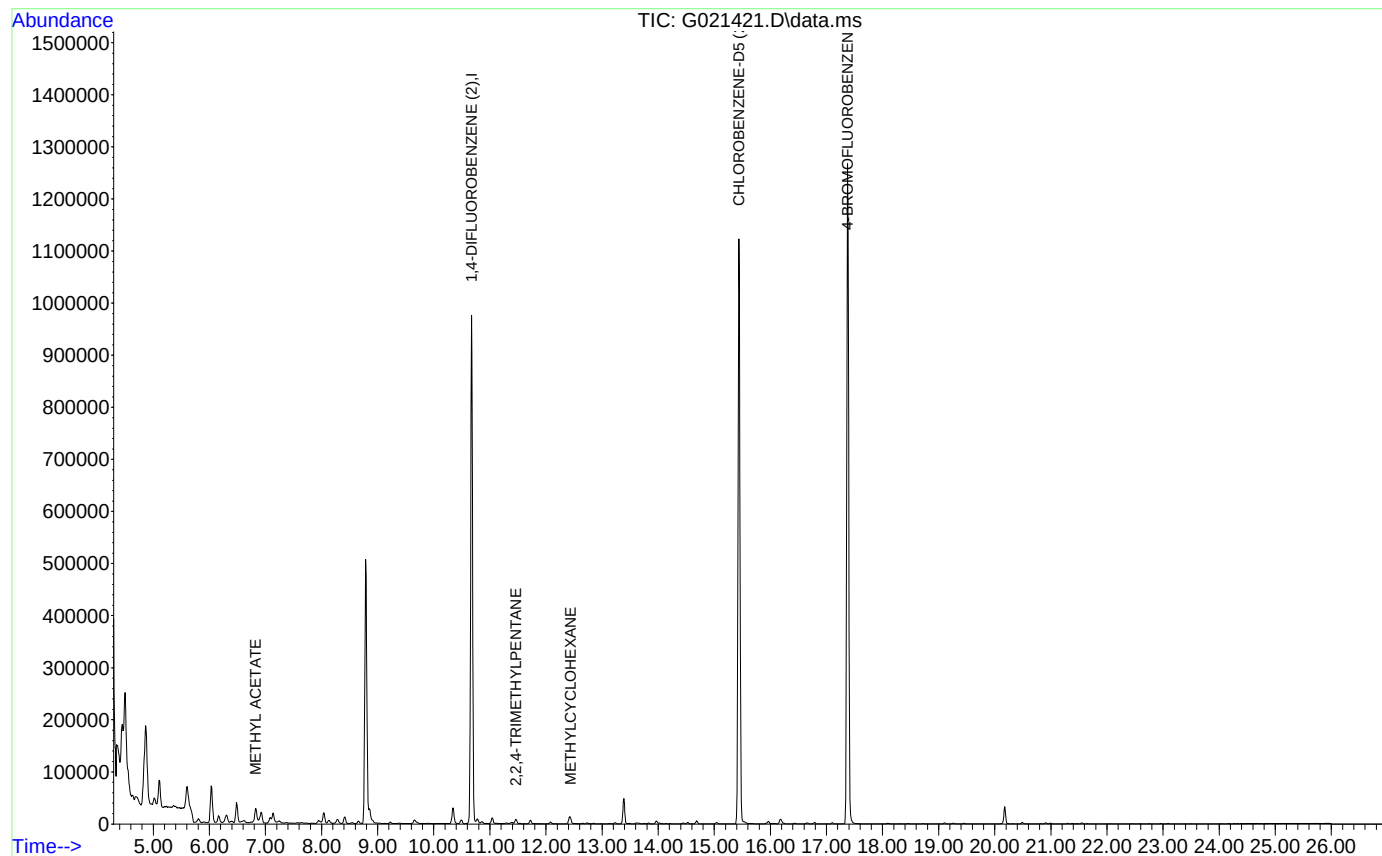
(#) = qualifier out of range (m) = manual integration (+) = signals summed

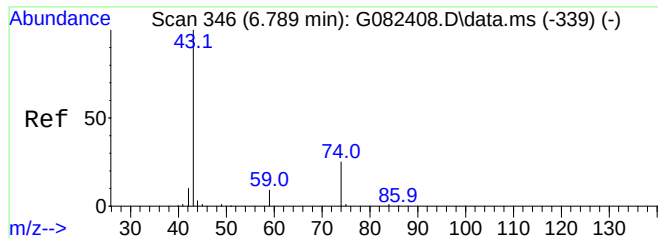
Data File : C:\msdchem\1\data\G021412\G021421.D
Acq On : 15 Feb 2012 2:07 am
Sample : 12B0323-24 0.7x
Misc : 1.5,1,400,855,0.7x
Quant Time: Feb 15 12:10:29 2012

Vial: 13
Operator: WSD
Inst : SYSG
Multiplr: 1.00

545

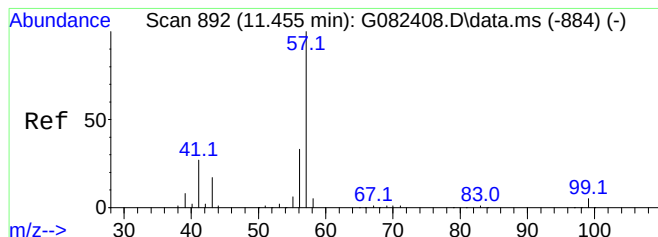
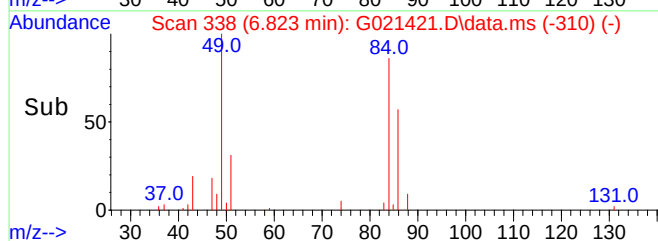
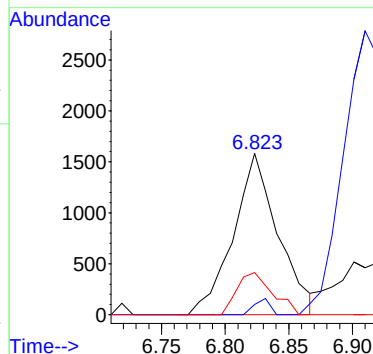
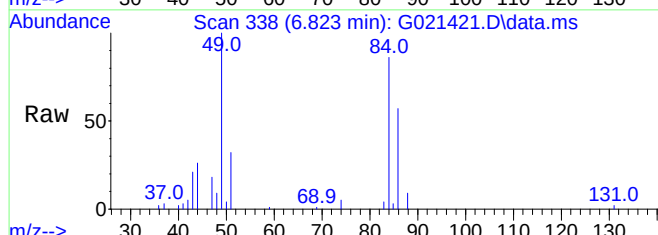
Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





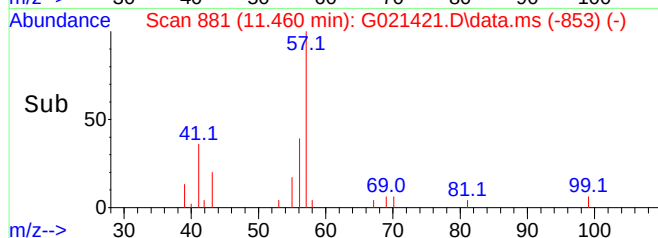
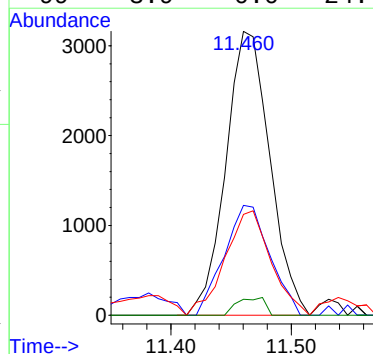
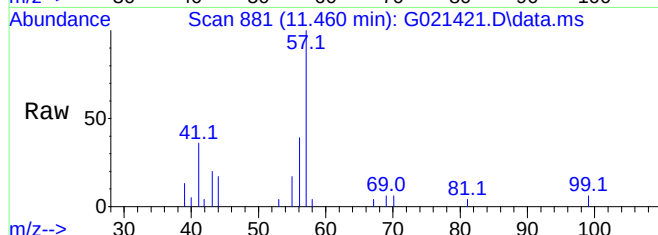
#3
METHYL ACETATE
Concen: 0.07 PPBV
RT: 6.823 min Scan# 338
Delta R.T. 0.043 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

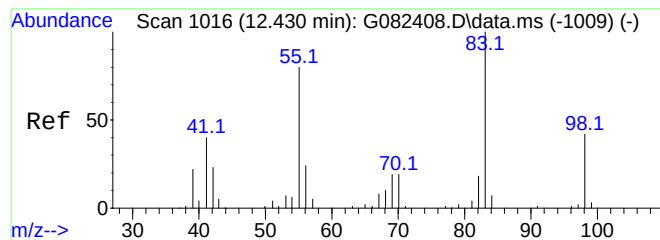
Tgt Ion: 43 Resp: 3859
Ion Ratio Lower Upper
43 100
59 3.5 0.0 27.9
74 20.9 1.0 41.0



#5
2,2,4-TRIMETHYLPENTANE
Concen: 0.05 PPBV
RT: 11.460 min Scan# 881
Delta R.T. 0.021 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

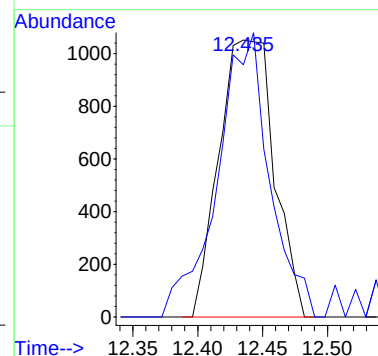
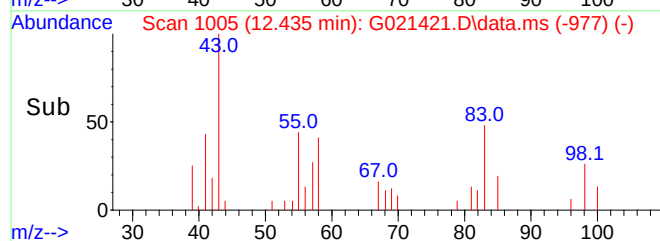
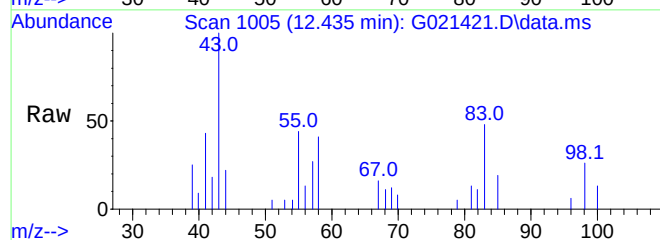
Tgt Ion: 57 Resp: 8039
Ion Ratio Lower Upper
57 100
56 40.1 13.7 53.7
41 38.3 5.8 45.8
99 3.9 0.0 24.7





#6
METHYLCYCLOHEXANE
Concen: 0.05 PPBV
RT: 12.435 min Scan# 1005
Delta R.T. 0.021 min
Lab File: G021421.D
Acq: 15 Feb 2012 2:07 am

Tgt Ion: 83 Resp: 3109
Ion Ratio Lower Upper
83 100
55 96.8 60.5 100.5



QC SUMMARY

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	SDG:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Matrix:	Air	Instrument:	SYSG

BFB
(70% - 130%)

12B0323-01	122
12B0323-03	118
12B0323-05	118
12B0323-07	118
12B0323-10	121
12B0323-12	120
12B0323-14	119
12B0323-16	120
12B0323-19	119
12B0323-21	121
12B0323-23	120
B046173-BLK1	120
B046173-BS1	118
B046173-DUP1	119



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	SDG:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Matrix:	Air	Instrument:	SYSG

BFB
(70% - 130%)

12B0323-02	120
12B0323-04	122
12B0323-06	121
12B0323-08	123
12B0323-09	122
12B0323-11	124
12B0323-13	129
12B0323-15	129
12B0323-17	127
12B0323-18	122
12B0323-20	126
12B0323-22	123
12B0323-24	125
B046247-BLK1	122
B046247-BS1	119
B046247-DUP1	119



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	SDG:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Matrix:	Air	Instrument:	SYSG

BFB
(70% - 130%)

12B0323-11RE1	109
B046266-BLK1	101
B046266-BS1	108

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory: Con-Test Analytical Laboratory
 Client: Arcadis US, Inc. - Clifton Park-NY
 Matrix: Air
 Batch: B046173
 Column:

Work Order: 12B0323
 Project: Purex-Mitchell Field-NY
 Preparation: TO-15 Prep
 Laboratory ID: B046173-BS1
 Initial/Final: 400 mL / 400 mL

ANALYTE	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC.	QC LIMITS REC.
Benzene	5.00	3.78	75.6	70 - 130
Benzyl chloride	5.00	6.10	122	70 - 130
Bromodichloromethane	5.00	4.17	83.3	70 - 130
Bromoform	5.00	5.66	113	70 - 130
Bromomethane	5.00	5.05	101	70 - 130
2-Butanone (MEK)	5.00	4.27	85.4	70 - 130
tert-Butyl Alcohol (TBA)	2.06	1.95	94.7	50 - 150
Carbon Tetrachloride	5.00	4.98	99.7	70 - 130
Chlorobenzene	5.00	4.57	91.4	70 - 130
Chloroethane	5.00	5.07	101	70 - 130
Chloroform	5.00	4.80	96.1	70 - 130
Chloromethane	5.00	5.11	102	70 - 130
Cyclohexane	5.00	4.12	82.5	50 - 150
Dibromochloromethane	5.00	5.15	103	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.30	86.0	70 - 130
1,2-Dichlorobenzene	5.00	4.91	98.3	70 - 130
1,3-Dichlorobenzene	5.00	5.21	104	70 - 130
1,4-Dichlorobenzene	5.00	5.02	100	70 - 130
Dichlorodifluoromethane (Freon 12)	5.00	5.40	108	70 - 130
1,1-Dichloroethane	5.00	4.46	89.2	70 - 130
1,2-Dichloroethane	5.00	4.45	89.0	70 - 130
1,1-Dichloroethylene	5.00	4.31	86.3	70 - 130
cis-1,2-Dichloroethylene	5.00	4.25	85.1	70 - 130
trans-1,2-Dichloroethylene	5.00	4.24	84.9	70 - 130
1,2-Dichloropropane	5.00	3.80	76.0	70 - 130
cis-1,3-Dichloropropene	5.00	4.15	83.0	70 - 130
trans-1,3-Dichloropropene	5.00	3.74	74.7	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.00	5.53	111	70 - 130
1,4-Dioxane	5.00	4.01	80.2	70 - 130
Ethanol	5.00	5.42	108	50 - 150

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory: Con-Test Analytical Laboratory
 Client: Arcadis US, Inc. - Clifton Park-NY
 Matrix: Air
 Batch: B046173
 Column:

Work Order: 12B0323
 Project: Purex-Mitchell Field-NY
 Preparation: TO-15 Prep
 Laboratory ID: B046173-BS1
 Initial/Final: 400 mL / 400 mL

ANALYTE	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC.	QC LIMITS REC.
Ethylbenzene	5.00	4.52	90.3	70 - 130
Hexachlorobutadiene	5.00	4.95	99.0	70 - 130
Hexane	5.00	4.70	93.9	70 - 130
Methyl tert-Butyl Ether (MTBE)	5.00	4.40	88.0	70 - 130
Methylene Chloride	5.00	4.66	93.3	70 - 130
4-Methyl-2-pentanone (MIBK)	5.00	3.65	73.0	70 - 130
Styrene	5.00	4.58	91.5	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.56	91.2	70 - 130
Tetrachloroethylene	5.00	4.48	89.7	70 - 130
Toluene	5.00	4.39	87.8	70 - 130
1,2,4-Trichlorobenzene	5.00	5.29	106	70 - 130
1,1,1-Trichloroethane	5.00	4.18	83.6	70 - 130
1,1,2-Trichloroethane	5.00	4.45	89.0	70 - 130
Trichloroethylene	5.00	4.02	80.3	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	5.60	112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.00	5.20	104	70 - 130
1,2,4-Trimethylbenzene	5.00	4.84	96.7	70 - 130
1,3,5-Trimethylbenzene	5.00	4.90	97.9	70 - 130
2,2,4-Trimethylpentane	1.34	0.969	72.3	70 - 130
Vinyl Chloride	5.00	5.07	101	70 - 130
m&p-Xylene	10.0	9.66	96.6	70 - 130
o-Xylene	5.00	4.74	94.9	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Matrix:	Air	Preparation:	TO-15 Prep
Batch:	B046247	Laboratory ID:	B046247-BS1
Column:		Initial/Final:	400 mL / 400 mL

ANALYTE	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC.	QC LIMITS REC.
Benzene	5.00	3.92	78.3	70 - 130
Benzyl chloride	5.00	6.37	127	70 - 130
Bromodichloromethane	5.00	4.23	84.6	70 - 130
Bromoform	5.00	5.95	119	70 - 130
Bromomethane	5.00	4.51	90.2	70 - 130
2-Butanone (MEK)	5.00	4.75	95.1	70 - 130
tert-Butyl Alcohol (TBA)	2.06	1.89	91.6	50 - 150
Carbon Tetrachloride	5.00	5.05	101	70 - 130
Chlorobenzene	5.00	4.70	94.0	70 - 130
Chloroethane	5.00	4.64	92.7	70 - 130
Chloroform	5.00	5.20	104	70 - 130
Chloromethane	5.00	4.48	89.5	70 - 130
Cyclohexane	5.00	4.28	85.7	50 - 150
Dibromochloromethane	5.00	5.20	104	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.43	88.5	70 - 130
1,2-Dichlorobenzene	5.00	5.25	105	70 - 130
1,3-Dichlorobenzene	5.00	5.40	108	70 - 130
1,4-Dichlorobenzene	5.00	5.24	105	70 - 130
Dichlorodifluoromethane (Freon 12)	5.00	5.56	111	70 - 130
1,1-Dichloroethane	5.00	5.00	100	70 - 130
1,2-Dichloroethane	5.00	4.71	94.3	70 - 130
1,1-Dichloroethylene	5.00	4.67	93.5	70 - 130
cis-1,2-Dichloroethylene	5.00	4.63	92.5	70 - 130
trans-1,2-Dichloroethylene	5.00	4.78	95.6	70 - 130
1,2-Dichloropropane	5.00	3.81	76.2	70 - 130
cis-1,3-Dichloropropene	5.00	4.35	87.0	70 - 130
trans-1,3-Dichloropropene	5.00	3.94	78.8	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.00	4.95	98.9	70 - 130
1,4-Dioxane	5.00	4.37	87.3	70 - 130
Ethanol	5.00	4.59	91.8	50 - 150

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Matrix:	Air	Preparation:	TO-15 Prep
Batch:	B046247	Laboratory ID:	B046247-BS1
Column:		Initial/Final:	400 mL / 400 mL

ANALYTE	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC.	QC LIMITS REC.
Ethylbenzene	5.00	4.62	92.4	70 - 130
Hexachlorobutadiene	5.00	5.43	109	70 - 130
Hexane	5.00	4.96	99.3	70 - 130
Methyl tert-Butyl Ether (MTBE)	5.00	5.14	103	70 - 130
Methylene Chloride	5.00	4.94	98.8	70 - 130
4-Methyl-2-pentanone (MIBK)	5.00	3.62	72.4	70 - 130
Styrene	5.00	4.82	96.3	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.57	91.3	70 - 130
Tetrachloroethylene	5.00	4.73	94.6	70 - 130
Toluene	5.00	4.55	91.0	70 - 130
1,2,4-Trichlorobenzene	5.00	5.82	116	70 - 130
1,1,1-Trichloroethane	5.00	4.25	85.0	70 - 130
1,1,2-Trichloroethane	5.00	4.50	89.9	70 - 130
Trichloroethylene	5.00	4.24	84.8	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	4.75	95.0	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.00	5.91	118	70 - 130
1,2,4-Trimethylbenzene	5.00	5.03	101	70 - 130
1,3,5-Trimethylbenzene	5.00	5.08	102	70 - 130
2,2,4-Trimethylpentane	1.34	1.02	76.3	70 - 130
Vinyl Chloride	5.00	4.54	90.8	70 - 130
m&p-Xylene	10.0	9.71	97.1	70 - 130
o-Xylene	5.00	4.79	95.8	70 - 130

3 - FORM III**LCS / LCS DUPLICATE RECOVERY****EPA TO-15**

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Matrix:	Air	Preparation:	TO-15 Prep
Batch:	B046266	Laboratory ID:	B046266-BS1
Column:		Initial/Final:	400 mL / 400 mL

ANALYTE	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC.	QC LIMITS REC.
Ethanol	5.00	7.14	143	50 - 150

4 - FORM IV METHOD BLANK SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Blank ID:	B046173-BLK1	Batch:	B046173

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Duplicate	B046173-DUP1	G021214.D	10:09
LCS	B046173-BS1	G021207.D	20:20
LCS	B046173-BS1	G021205.D	20:20
PMF-MSBA-SS-11	12B0323-23	G021223.D	16:18
PMF-CONC-SS-10	12B0323-21	G021222.D	15:37
PMF-CONC-SS-09	12B0323-19	G021221.D	14:56
PMF-MSBA-SS-08	12B0323-16	G021220.D	14:15
PMF-MSBA-SS-07	12B0323-14	G021219.D	13:34
PMF-MSBA-SS-06	12B0323-12	G021218.D	12:53
PMF-MSBA-SS-05	12B0323-10	G021224.D	16:59
PMF-UPS-SS04	12B0323-07	G021217.D	12:12
PMF-UPS-SS03	12B0323-05	G021216.D	11:31
PMF-UPS-SS02	12B0323-03	G021215.D	10:50
PMF-UPS-SS01	12B0323-01	G021213.D	09:27

4 - FORM IV METHOD BLANK SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Blank ID:	B046247-BLK1	Batch:	B046247

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
PMF-MSBA-IA-08	12B0323-17	G021419.D	00:36
PMF-UPS-IA02	12B0323-04	G021413.D	20:02
PMF-UPS-IA03	12B0323-06	G021414.D	20:48
PMF-UPS-IA04	12B0323-08	G021415.D	21:33
PMF-UPS-OA01	12B0323-09	G021410.D	17:45
PMF-MSBA-IA-05	12B0323-11	G021416.D	22:19
PMF-UPS-IA01	12B0323-02	G021412.D	19:16
PMF-MSBA-IA-07	12B0323-15	G021418.D	23:50
Duplicate	B046247-DUP1	G021423.D	03:39
PMF-MSBA-OA-02	12B0323-18	G021411.D	18:30
PMF-CONC-IA-09	12B0323-20	G021420.D	01:22
PMF-CONC-IA-10	12B0323-22	G021422.D	02:53
PMF-MSBA-IA-11	12B0323-24	G021421.D	02:07
LCS	B046247-BS1	G021403.D	12:22
LCS	B046247-BS1	G021407.D	12:22
PMF-MSBA-IA-06	12B0323-13	G021417.D	23:04

4 - FORM IV METHOD BLANK SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Blank ID:	B046266-BLK1	Batch:	B046266

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	B046266-BS1	G021504.D	13:53
PMF-MSBA-IA-05	12B0323-11RE1	G021508.D	16:31

5 - FORM V

INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory: Con-Test Analytical Laboratory	Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY	Project: Purex-Mitchell Field-NY
Lab File ID: G021203.D	Injection Date: 02/12/12
Instrument ID: SYSG	Injection Time: 19:05
Sequence: S001777	Lab Sample ID: S001777-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	8 - 40% of 95	16.5	PASS
75	30 - 66% of 95	46.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.76	PASS
173	Less than 2% of 174	0.611	PASS
174	50 - 120% of 95	76.1	PASS
175	4 - 9% of 174	7.18	PASS
176	93 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.47	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
CCV	S001777-CCV1	G021206.D	02/12/2012	19:43:00
CCV	S001777-CCV1	G021204.D	02/12/2012	19:43:00
LCS	B046173-BS1	G021205.D	02/12/2012	20:20:00
LCS	B046173-BS1	G021207.D	02/12/2012	20:20:00
Blank	B046173-BLK1	G021209.D	02/12/2012	23:00:00
PMF-UPS-SS01	12B0323-01	G021213.D	02/13/2012	9:27:00
Duplicate	B046173-DUP1	G021214.D	02/13/2012	10:09:00
PMF-UPS-SS02	12B0323-03	G021215.D	02/13/2012	10:50:00
PMF-UPS-SS03	12B0323-05	G021216.D	02/13/2012	11:31:00
PMF-UPS-SS04	12B0323-07	G021217.D	02/13/2012	12:12:00
PMF-MSBA-SS-06	12B0323-12	G021218.D	02/13/2012	12:53:00
PMF-MSBA-SS-07	12B0323-14	G021219.D	02/13/2012	13:34:00
PMF-MSBA-SS-08	12B0323-16	G021220.D	02/13/2012	14:15:00
PMF-CONC-SS-09	12B0323-19	G021221.D	02/13/2012	14:56:00
PMF-CONC-SS-10	12B0323-21	G021222.D	02/13/2012	15:37:00
PMF-MSBA-SS-11	12B0323-23	G021223.D	02/13/2012	16:18:00
PMF-MSBA-SS-05	12B0323-10	G021224.D	02/13/2012	16:59:00

5 - FORM V
INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Lab File ID:	G021401.D	Injection Date:	02/14/12
Instrument ID:	SYSG	Injection Time:	10:43
Sequence:	S001781	Lab Sample ID:	S001781-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	8 - 40% of 95	15.2	PASS
75	30 - 66% of 95	44.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.71	PASS
173	Less than 2% of 174	0.614	PASS
174	50 - 120% of 95	81	PASS
175	4 - 9% of 174	7.29	PASS
176	93 - 101% of 174	96.4	PASS
177	5 - 9% of 176	6.72	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
CCV	S001781-CCV1	G021402.D	02/14/2012	11:44:00
CCV	S001781-CCV1	G021406.D	02/14/2012	11:44:00
LCS	B046247-BS1	G021407.D	02/14/2012	12:22:00
LCS	B046247-BS1	G021403.D	02/14/2012	12:22:00
Blank	B046247-BLK1	G021409.D	02/14/2012	16:59:00
PMF-UPS-OA01	12B0323-09	G021410.D	02/14/2012	17:45:00
PMF-MSBA-OA-02	12B0323-18	G021411.D	02/14/2012	18:30:00
PMF-UPS-IA01	12B0323-02	G021412.D	02/14/2012	19:16:00
PMF-UPS-IA02	12B0323-04	G021413.D	02/14/2012	20:02:00
PMF-UPS-IA03	12B0323-06	G021414.D	02/14/2012	20:48:00
PMF-UPS-IA04	12B0323-08	G021415.D	02/14/2012	21:33:00
PMF-MSBA-IA-05	12B0323-11	G021416.D	02/14/2012	22:19:00
PMF-MSBA-IA-06	12B0323-13	G021417.D	02/14/2012	23:04:00
PMF-MSBA-IA-07	12B0323-15	G021418.D	02/14/2012	23:50:00
PMF-MSBA-IA-08	12B0323-17	G021419.D	02/15/2012	0:36:00
PMF-CONC-IA-09	12B0323-20	G021420.D	02/15/2012	1:22:00
PMF-MSBA-IA-11	12B0323-24	G021421.D	02/15/2012	2:07:00
PMF-CONC-IA-10	12B0323-22	G021422.D	02/15/2012	2:53:00
Duplicate	B046247-DUP1	G021423.D	02/15/2012	3:39:00

5 - FORM V

INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory: Con-Test Analytical Laboratory	Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY	Project: Purex-Mitchell Field-NY
Lab File ID: G021501.D	Injection Date: 02/15/12
Instrument ID: SYSG	Injection Time: 11:59
Sequence: S001786	Lab Sample ID: S001786-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	8 - 40% of 95	16.1	PASS
75	30 - 66% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.75	PASS
173	Less than 2% of 174	0.587	PASS
174	50 - 120% of 95	77.3	PASS
175	4 - 9% of 174	6.96	PASS
176	93 - 101% of 174	95.8	PASS
177	5 - 9% of 176	6.8	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
CCV	S001786-CCV1	G021503.D	02/15/2012	13:15:00
LCS	B046266-BS1	G021504.D	02/15/2012	13:53:00
Blank	B046266-BLK1	G021507.D	02/15/2012	15:54:00
PMF-MSBA-IA-05	12B0323-11RE1	G021508.D	02/15/2012	16:31:00

5 - FORM V
INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Lab File ID:	G081001.D	Injection Date:	08/10/11
Instrument ID:	SYSG	Injection Time:	18:14
Sequence:	S001815	Lab Sample ID:	S001815-TUN1

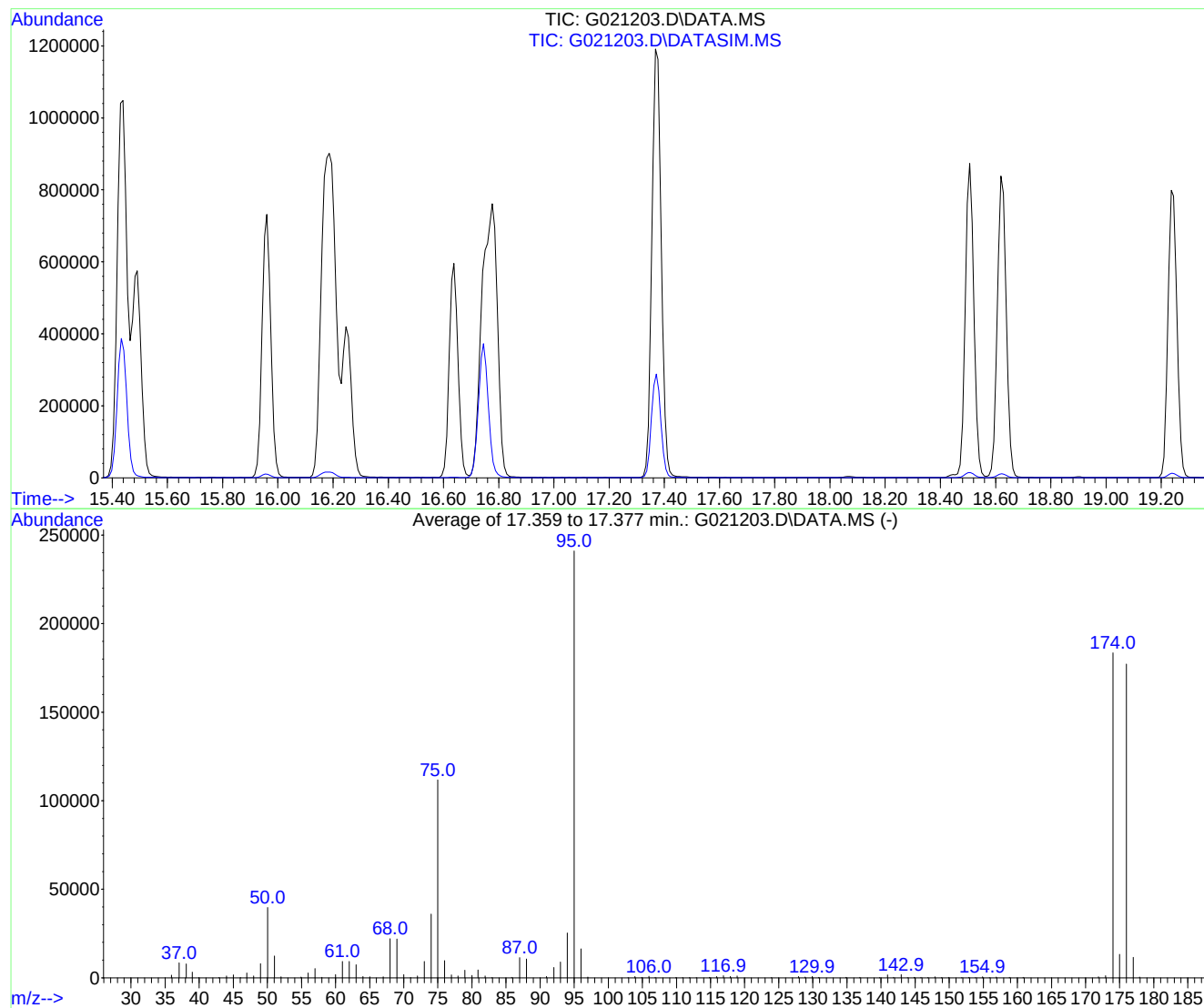
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	8 - 40% of 95	18.1	PASS
75	30 - 66% of 95	47.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.66	PASS
173	Less than 2% of 174	0.608	PASS
174	50 - 120% of 95	75.6	PASS
175	4 - 9% of 174	7.29	PASS
176	93 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.63	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
0.5 + 0.625	S001815-CAL5	G081006.D	08/24/2010	16:24:00
0.5 + 0.625	S001815-CAL5	G082405.D	08/24/2010	16:24:00
1.0 + 1.25	S001815-CAL6	G082406.D	08/24/2010	17:02:00
1.0 + 1.25	S001815-CAL6	G081007.D	08/24/2010	17:02:00
2.0 + 3.13	S001815-CAL7	G082407.D	08/24/2010	17:40:00
2.0 + 3.13	S001815-CAL7	G081009.D	08/24/2010	17:40:00
5.0 + 6.25	S001815-CAL8	G081010.D	08/24/2010	18:18:00
5.0 + 6.25	S001815-CAL8	G082408.D	08/24/2010	18:18:00
10.0 + 12.5	S001815-CAL9	G082409.D	08/24/2010	18:59:00
10.0 + 12.5	S001815-CAL9	G081011.D	08/24/2010	18:59:00
20.0 + 25	S001815-CALA	G081012.D	08/24/2010	19:44:00
20.0 + 25	S001815-CALA	G082410.D	08/24/2010	19:44:00
ICV	S001815-ICV1	G081017.D	08/24/2010	20:23:00
ICV	S001815-ICV1	G082411.D	08/24/2010	20:23:00
0.025	S001815-CAL1	G081002.D	08/10/2011	18:52:00
0.05	S001815-CAL2	G081003.D	08/10/2011	19:29:00
0.1	S001815-CAL3	G081004.D	08/10/2011	20:07:00
0.2	S001815-CAL4	G081005.D	08/10/2011	20:45:00
40.0	S001815-CALB	G081013.D	08/11/2011	2:04:00
91.0	S001815-CALC	G081014.D	08/11/2011	2:45:00
182.0	S001815-CALD	G081015.D	08/11/2011	3:31:00

Data Path : C:\msdchem\1\data\G021212\
 Data File : G021203.D
 Acq On : 12 Feb 2012 7:05 pm
 Operator : TPH
 Sample : BFB
 Misc : CTWS-2640
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: WSD.P
 Integration File signal 2: rteint2.p

Method : C:\msdchem\1\methods\G081011.m
 Title : QUANT FILE FOR T0-14/T0-15
 Last Update : Mon Aug 15 11:06:02 2011



AutoFind: Scans 1579, 1580, 1581; Background Corrected with Scan 1571

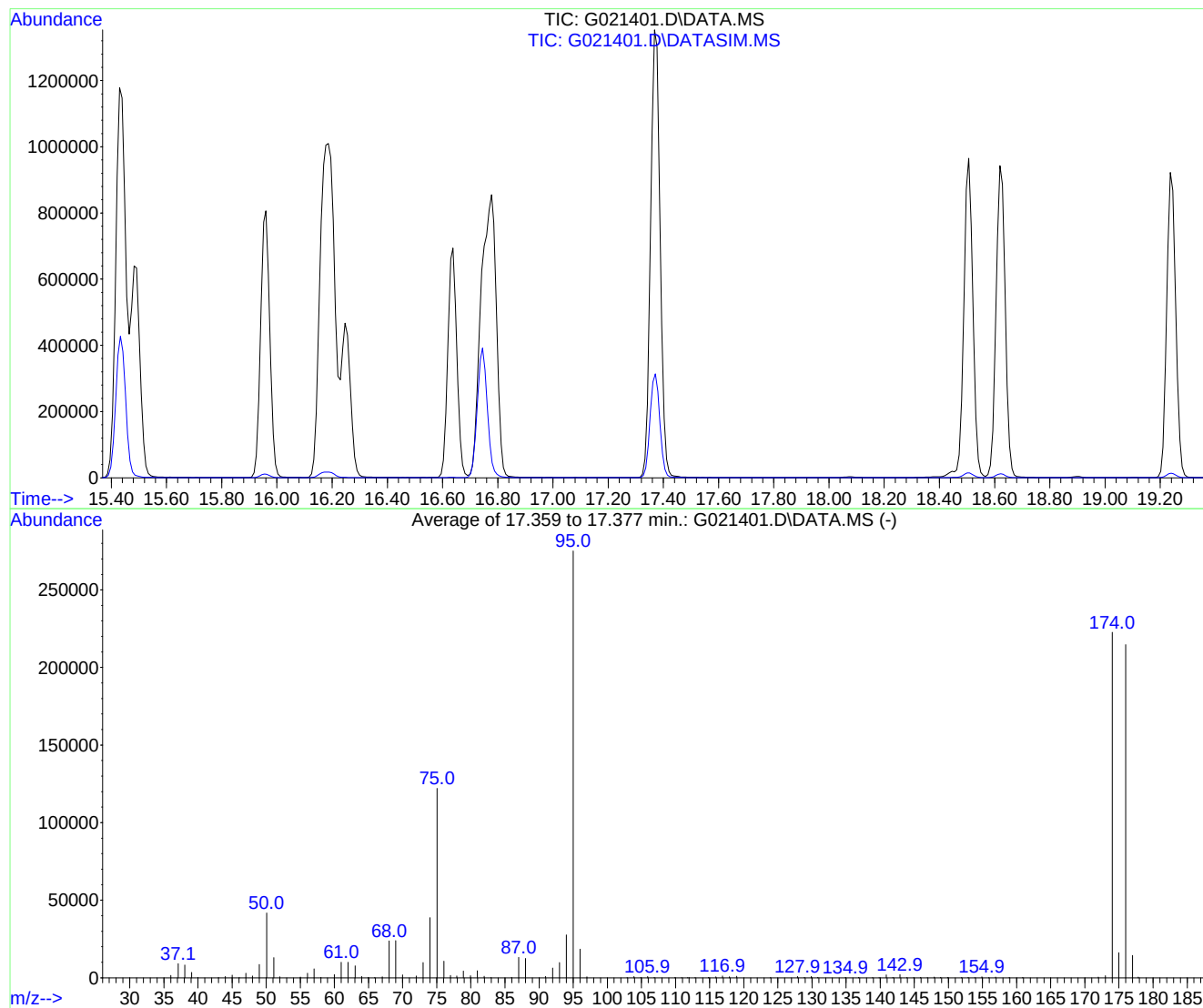
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.5	39672	PASS
75	95	30	66	46.4	111744	PASS
95	95	100	100	100.0	240939	PASS
96	95	5	9	6.8	16298	PASS
173	174	0.00	2	0.6	1121	PASS
174	95	50	120	76.1	183424	PASS
175	174	4	9	7.2	13167	PASS
176	174	93	101	96.5	177067	PASS
177	176	5	9	6.5	11450	PASS

Data Path : C:\msdchem\1\data\G021412\
Data File : G021401.D
Acq On : 14 Feb 2012 10:43 am
Operator : WSD
Sample : BFB
Misc : CTWS-2640
ALS Vial : 22 Sample Multiplier: 1

567

Integration File signal 1: WSD.P
Integration File signal 2: rteint2.p

Method : C:\msdchem\1\methods\G081011.m
Title : QUANT FILE FOR T0-14/T0-15
Last Update : Mon Aug 15 11:06:02 2011



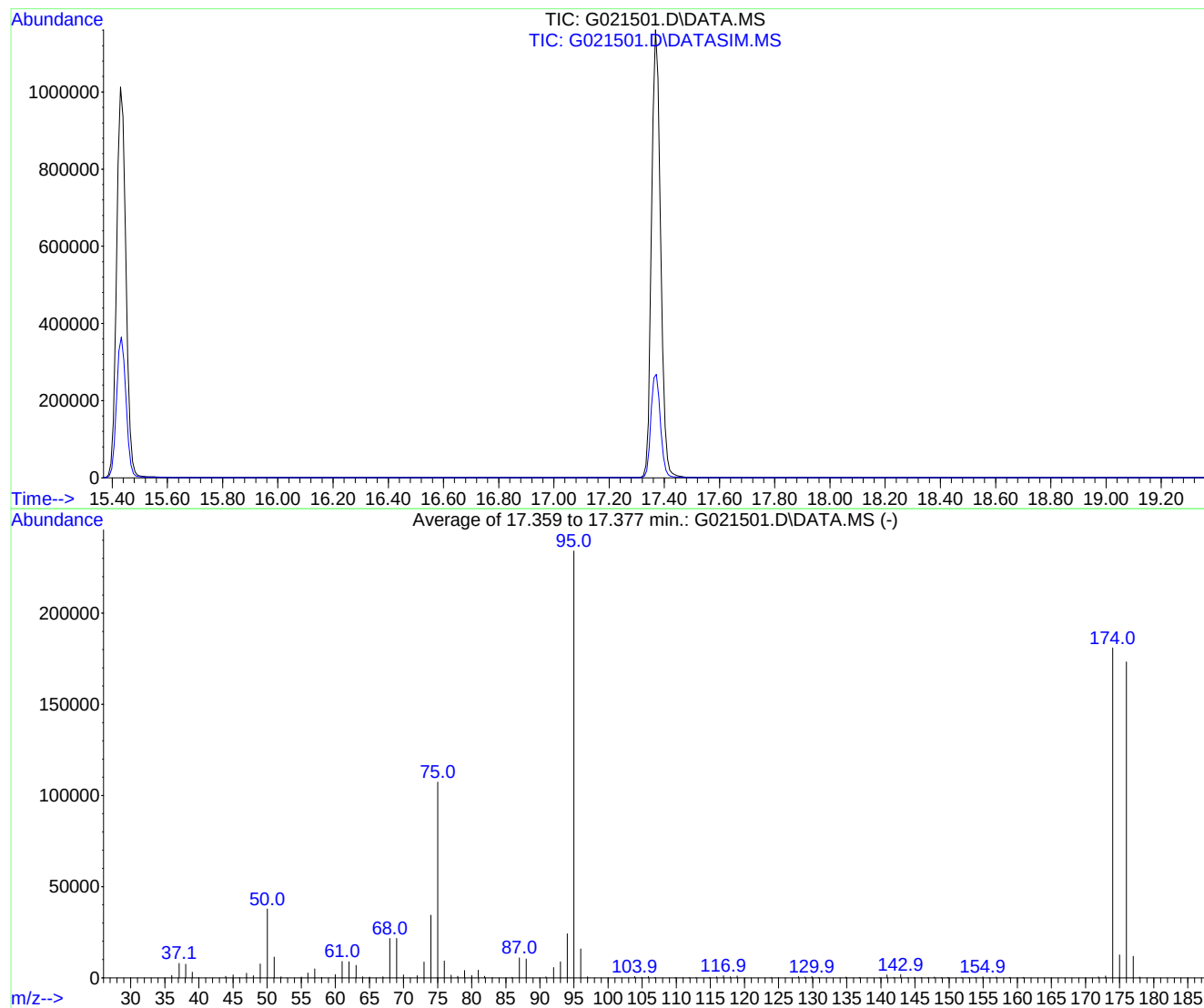
AutoFind: Scans 1579, 1580, 1581; Background Corrected with Scan 1571

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.2	41813	PASS
75	95	30	66	44.4	122032	PASS
95	95	100	100	100.0	275029	PASS
96	95	5	9	6.7	18443	PASS
173	174	0.00	2	0.6	1366	PASS
174	95	50	120	81.0	222656	PASS
175	174	4	9	7.3	16229	PASS
176	174	93	101	96.4	214677	PASS
177	176	5	9	6.7	14416	PASS

Data Path : C:\msdchem\1\data\G021512\
 Data File : G021501.D
 Acq On : 15 Feb 2012 11:59 am
 Operator : WSD
 Sample : BFB
 Misc : CTWS-2640
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: WSD.P
 Integration File signal 2: rteint2.p

Method : C:\msdchem\1\methods\G081011.m
 Title : QUANT FILE FOR T0-14/T0-15
 Last Update : Mon Aug 15 11:06:02 2011



AutoFind: Scans 1579, 1580, 1581; Background Corrected with Scan 1571

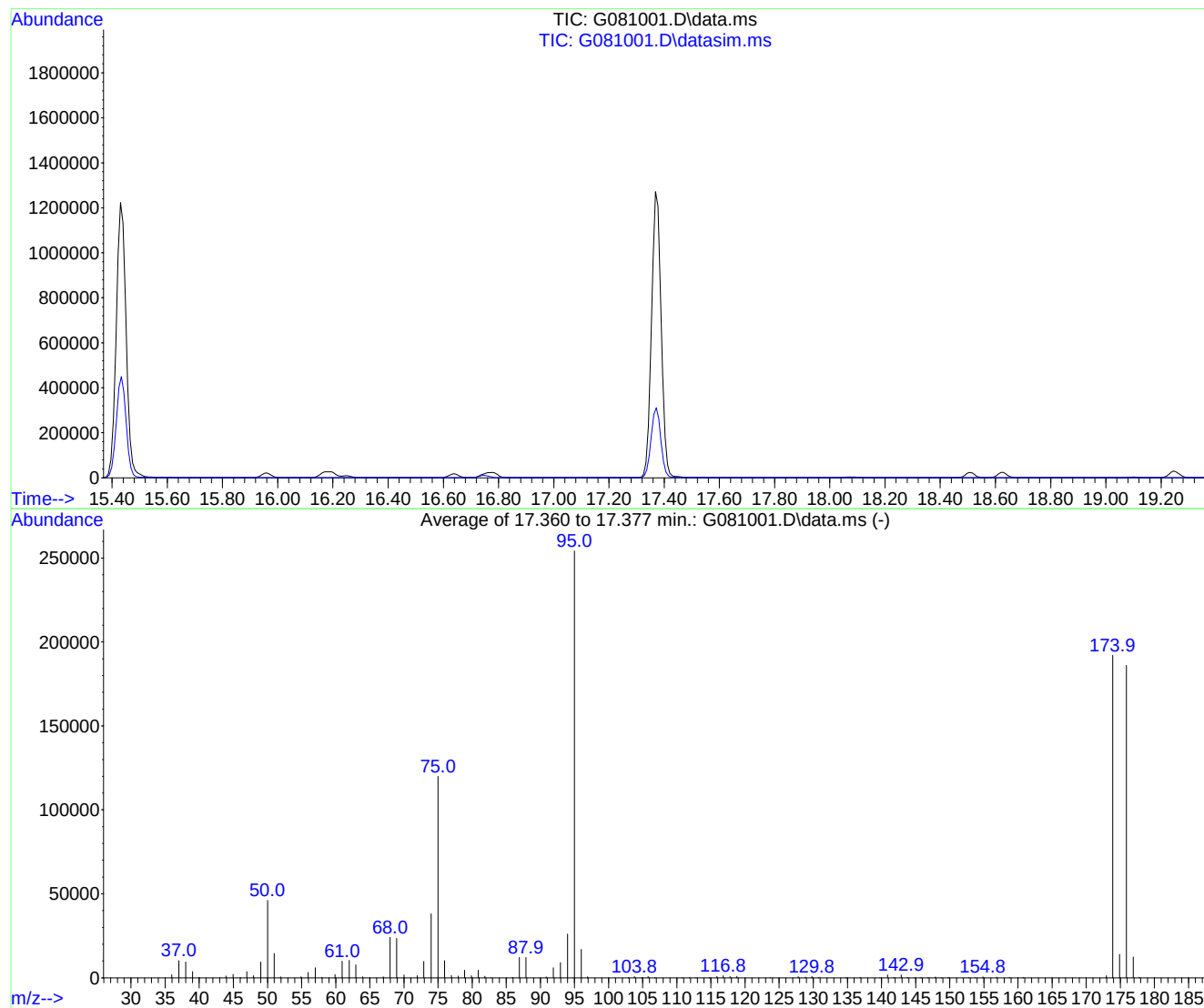
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.1	37787	PASS
75	95	30	66	45.9	107331	PASS
95	95	100	100	100.0	234069	PASS
96	95	5	9	6.7	15795	PASS
173	174	0.00	2	0.6	1062	PASS
174	95	50	120	77.3	180885	PASS
175	174	4	9	7.0	12589	PASS
176	174	93	101	95.8	173227	PASS
177	176	5	9	6.8	11785	PASS

Data Path : C:\msdchem\1\data\ARCHIVE\G081011\
Data File : G081001.D
Acq On : 10 Aug 2011 6:14 pm
Operator : WSD
Sample : BFB
Misc :
ALS Vial : 22 Sample Multiplier: 1

569

Integration File signal 1: 11095INT.P
Integration File signal 2: rteint2.p

Method : C:\msdchem\1\methods\EX082410.M
Title : QUANT FILE FOR T0-14/T0-15
Last Update : Wed Aug 25 10:05:43 2010



AutoFind: Scans 1594, 1595, 1596; Background Corrected with Scan 1586

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.1	46061	PASS
75	95	30	66	47.2	120053	PASS
95	95	100	100	100.0	254144	PASS
96	95	5	9	6.7	16936	PASS
173	174	0.00	2	0.6	1167	PASS
174	95	50	120	75.6	192043	PASS
175	174	4	9	7.3	14000	PASS
176	174	93	101	96.9	186069	PASS
177	176	5	9	6.6	12341	PASS

6 - FORM VI

INITIAL CALIBRATION DATA SHEET

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NYSDG: 12B0323Project: Purex-Mitchell Field-NYCalibration: 1200017Instrument: SYSGCalibration Date: 8/24/2010 12:00:21AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acetone											1	0.9867733
Acrolein			0.05	0.2727973	0.1	0.208377	0.2	0.182403	0.5	0.1794469	1	0.1735863
Benzene	0.025	1.291051	0.05	1.134039	0.1	1.022138	0.2	0.9851787	0.5	1.006686	1	1.022399
Benzyl chloride			0.05	0.9093732	0.1	0.7467927	0.2	0.6888949	0.5	0.7383135	1	0.831434
Bromodichloromethane	0.025	0.6931898	0.05	0.593889	0.1	0.5803305	0.2	0.5918904	0.5	0.6277535	1	0.6519546
Bromoform			0.05	0.4339749	0.1	0.3830757	0.2	0.3993629	0.5	0.4314267	1	0.4908648
Bromomethane			0.05	0.6724772	0.1	0.5648422	0.2	0.5180284	0.5	0.5020645	1	0.5058732
1,3-Butadiene			0.05	0.4389341	0.1	0.3537337	0.2	0.3428483	0.5	0.3634083	1	0.3754945
2-Butanone (MEK)			0.05	2.25375	0.1	1.898611	0.2	1.751127	0.5	1.747673	1	1.751831
tert-Butyl Alcohol (TBA)									0.206	0.5289046	0.412	0.4720989
Carbon Disulfide			0.05	2.47738	0.1	2.320048	0.2	2.172657	0.5	2.293229	1	2.345325
Carbon Tetrachloride	0.025	0.4495379	0.05	0.4403696	0.1	0.4622295	0.2	0.4484432	0.5	0.466377	1	0.5060118
Chlorobenzene	0.025	1.369274	0.05	1.213738	0.1	1.017492	0.2	0.9881942	0.5	0.9467239	1	0.9497006
Chloroethane	0.025	0.2566838	0.05	0.2601091	0.1	0.2442772	0.2	0.2149544	0.5	0.2561915	1	0.2565508
Chloroform	0.025	1.779029	0.05	1.747013	0.1	1.67365	0.2	1.56622	0.5	1.632999	1	1.675054
Chloromethane			0.05	0.5368715	0.1	0.5010414	0.2	0.4574521	0.5	0.4468035	1	0.4395097
Cyclohexane			0.05	0.5321617	0.1	0.4585956	0.2	0.42746	0.5	0.4370248	1	0.4364794
Dibromochloromethane	0.025	0.6395354	0.05	0.5359153	0.1	0.5168188	0.2	0.5142192	0.5	0.5599913	1	0.6034558
1,2-Dibromoethane (EDB)	0.025	0.8738045	0.05	0.6498296	0.1	0.6458227	0.2	0.6135534	0.5	0.6069575	1	0.6278675
1,2-Dichlorobenzene			0.05	1.166975	0.1	0.9908237	0.2	0.8831861	0.5	0.8514607	1	0.844619
1,3-Dichlorobenzene			0.05	1.193835	0.1	1.006246	0.2	0.9374531	0.5	0.8835289	1	0.9263012
1,4-Dichlorobenzene			0.05	1.235421	0.1	1.039823	0.2	0.9581224	0.5	0.9123999	1	0.9177629
Dichlorodifluoromethane (Freon)			0.05	1.701415	0.1	1.757547	0.2	1.657229	0.5	1.742111	1	1.546615
1,1-Dichloroethane	0.025	1.767728	0.05	1.585238	0.1	1.62897	0.2	1.461247	0.5	1.553957	1	1.560766
1,2-Dichloroethane	0.025	1.391582	0.05	1.186748	0.1	1.144708	0.2	1.037116	0.5	1.091797	1	1.090974
1,1-Dichloroethylene	0.025	1.29472	0.05	1.351298	0.1	1.234458	0.2	1.18379	0.5	1.268342	1	1.282673

6 - FORM VI

INITIAL CALIBRATION DATA SHEET

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NYSDG: 12B0323Project: Purex-Mitchell Field-NYCalibration: 1200017Instrument: SYSGCalibration Date: 8/24/2010 12:00:21AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
cis-1,2-Dichloroethylene	0.025	1.356066	0.05	1.276358	0.1	1.164999	0.2	1.109538	0.5	1.175514	1	1.179983
trans-1,2-Dichloroethylene	0.025	1.432748	0.05	1.29777	0.1	1.250262	0.2	1.182827	0.5	1.223762	1	1.271871
1,2-Dichloropropane	0.025	0.5028367	0.05	0.4193097	0.1	0.3698562	0.2	0.3808387	0.5	0.3864311	1	0.3980743
cis-1,3-Dichloropropene	0.025	0.6569466	0.05	0.5203972	0.1	0.4545983	0.2	0.4404268	0.5	0.4853382	1	0.5122153
trans-1,3-Dichloropropene	0.025	0.6079116	0.05	0.4627367	0.1	0.421312	0.2	0.42166	0.5	0.4352189	1	0.4695124
1,2-Dichloro-1,1,2,2-tetrafluoroethane			0.05	1.483732	0.1	1.489076	0.2	1.504488	0.5	1.511232	1	1.584432
1,4-Dioxane			0.05	0.2906265	0.1	0.2701426	0.2	0.2434871	0.5	0.2488977	1	0.2479749
Ethanol											1	0.2561629
Ethyl Acetate			0.05	0.3279119	0.1	0.3047612	0.2	0.282272	0.5	0.3053258	1	0.3070687
Ethylbenzene			0.05	1.874894	0.1	1.645884	0.2	1.5444	0.5	1.556197	1	1.630159
4-Ethyltoluene			0.05	1.838325	0.1	1.710386	0.2	1.669348	0.5	1.630541	1	1.689628
Heptane			0.05	0.3135746	0.1	0.2924546	0.2	0.3244647	0.5	0.3298231	1	0.3424624
Hexachlorobutadiene			0.05	0.7943261	0.1	0.6468669	0.2	0.5634202	0.5	0.5660771	1	0.5714351
Hexane			0.05	1.081277	0.1	1.003058	0.2	0.8881313	0.5	0.9562442	1	0.9673543
2-Hexanone (MBK)			0.05	1.00387	0.1	0.8957175	0.2	0.8558297	0.5	0.8318239	1	0.8683005
Isopropanol									0.5	0.9618469	1	1.028327
Methyl tert-Butyl Ether (MTBE)			0.05	2.188326	0.1	2.080258	0.2	1.99141	0.5	2.141835	1	2.180172
Methylene Chloride							0.2	1.166166	0.5	1.060075	1	1.014564
Methyl methacrylate			0.05	0.3660064	0.1	0.3091705	0.2	0.3245755	0.5	0.3373524	1	0.354093
4-Methyl-2-pentanone (MIBK)			0.05	0.9702075	0.1	0.7904414	0.2	0.8201942	0.5	0.8239455	1	0.8533132
Naphthalene			0.05	3.074717	0.1	2.463765	0.2	1.982508	0.5	1.803897	1	1.781483
Propene									0.5	0.701544	1	0.6700257
Styrene			0.05	1.02442	0.1	0.9285709	0.2	0.8796602	0.5	0.8884787	1	0.9233057
1,1,1,2-Tetrachloroethane			0.182		0.454		0.908		0.091	1.909148	0.182	1.516144
1,1,2,2-Tetrachloroethane	0.025	1.334231	0.05	1.139953	0.1	0.9999006	0.2	0.9398443	0.5	0.9560717	1	0.9434691
Tetrachloroethylene	0.025	0.6476472	0.05	0.5710281	0.1	0.5295907	0.2	0.5323758	0.5	0.5182184	1	0.5367343

6 - FORM VI

INITIAL CALIBRATION DATA SHEET

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NY

SDG: 12B0323

Project: Purex-Mitchell Field-NY

Calibration: 1200017

Instrument: SYSG

Calibration Date: 8/24/2010 12:00:21AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Tetrahydrofuran			0.05	0.3758894	0.1	0.386317	0.2	0.389364	0.5	0.4021433	1	0.4149655
Toluene			0.05	1.41325	0.1	1.296626	0.2	1.253126	0.5	1.240676	1	1.239389
1,2,4-Trichlorobenzene					0.1	0.8205322	0.2	0.6974058	0.5	0.6505805	1	0.6663106
1,1,1-Trichloroethane	0.025	0.569841	0.05	0.5522049	0.1	0.5386136	0.2	0.5321177	0.5	0.5526587	1	0.5799283
1,1,2-Trichloroethane	0.025	0.5418691	0.05	0.4621298	0.1	0.4309501	0.2	0.4218559	0.5	0.4049737	1	0.4247822
Trichloroethylene	0.025	0.5141056	0.05	0.4528603	0.1	0.4051776	0.2	0.4127939	0.5	0.4122635	1	0.4268252
Trichlorofluoromethane (Freon 113)			0.05	1.192299	0.1	1.179437	0.2	1.162121	0.5	1.276282	1	1.275097
1,1,2-Trichloro-1,2,2-trifluoroethane			0.05	1.589203	0.1	1.446933	0.2	1.430332	0.5	1.51885	1	1.532158
1,2,4-Trimethylbenzene			0.05	1.674088	0.1	1.425549	0.2	1.322388	0.5	1.349312	1	1.407682
1,3,5-Trimethylbenzene			0.05	1.671175	0.1	1.424425	0.2	1.373534	0.5	1.367196	1	1.395658
2,2,4-Trimethylpentane									0.134	1.394505	0.268	1.176501
Vinyl Acetate			0.05	2.876267	0.1	2.462088	0.2	2.27397	0.5	2.346797	1	2.460491
Vinyl Chloride	0.025	0.7369571	0.05	0.562248	0.1	0.5115773	0.2	0.524192	0.5	0.5212909	1	0.5258639
m&p-Xylene			0.1	1.443994	0.2	1.345544	0.4	1.277909	1	1.238713	2	1.300592
o-Xylene			0.05	1.455159	0.1	1.349239	0.2	1.280239	0.5	1.241682	1	1.25254
4-Bromofluorobenzene (1)	8	0.535403	8	0.5378034	8	0.5338379	8	0.5389636	8	0.5404782	8	0.5463378
4-Bromofluorobenzene (2)									8	3.039717	8	2.986446

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NYSDG: 12B0323Project: Purex-Mitchell Field-NYCalibration: 1200017Instrument: SYSGCalibration Date: 8/24/2010 12:00:21AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Acetone	2	0.8508128	5	0.7861143	10	0.6575994	20	0.6384889	40	0.709234	91	0.8002478
Acrolein	2	0.2059725	5	0.181225	10	0.1509714	20	0.1448744	40	0.1763552		
Benzene	2	1.065876	5	0.907141	10	0.8890666	20	0.8343339	40	0.7533218		
Benzyl chloride	2	0.7447574	5	0.9573844	10	0.9831629	20	1.020668	40	0.8784319		
Bromodichloromethane	2	0.677718	5	0.5937155	10	0.5914144	20	0.5680061	40	0.5054522		
Bromoform	2	0.486125	5	0.5262079	10	0.5362708	20	0.5382976	40	0.4786414		
Bromomethane	2	0.6367363	5	0.4526543	10	0.4544333	20	0.4294434	40	0.4009062		
1,3-Butadiene	2	0.4865072	5	0.3367218	10	0.333617	20	0.3203673	40	0.3078125		
2-Butanone (MEK)	2	1.494066	5	1.476727	10	1.520725	20	1.42862	40	1.33953	91	1.202908
tert-Butyl Alcohol (TBA)	1.031	0.4310061	2.062	0.4486945	4.123	0.4526009	8.247	0.4738673				
Carbon Disulfide	2	2.460222	5	2.145874	10	2.12104	20	2.032627	40	1.890922		
Carbon Tetrachloride	2	0.5295103	5	0.4867764	10	0.4944845	20	0.481614	40	0.4487239		
Chlorobenzene	2	0.9156499	5	0.8785905	10	0.8438737	20	0.8110794	40	0.7258104		
Chloroethane	2	0.3184033	5	0.2202197	10	0.2205752	20	0.2123727	40	0.2201654		
Chloroform	2	1.767521	5	1.536552	10	1.502458	20	1.399336	40	1.289825		
Chloromethane	2	0.5899605	5	0.3905839	10	0.3955114	20	0.382566	40	0.3671083		
Cyclohexane	2	0.4489647	5	0.3838526	10	0.381591	20	0.3582411	40	0.3216275		
Dibromochloromethane	2	0.6225473	5	0.6086445	10	0.5896497	20	0.5716599	40	0.5108175		
1,2-Dibromoethane (EDB)	2	0.6394494	5	0.5878494	10	0.5632763	20	0.5417191	40	0.4834808		
1,2-Dichlorobenzene	2	0.6778195	5	0.7515537	10	0.7158716	20	0.7379566	40	0.6277844		
1,3-Dichlorobenzene	2	0.7514651	5	0.8191921	10	0.7974955	20	0.7559259	40	0.6340346		
1,4-Dichlorobenzene	2	0.7527763	5	0.8221009	10	0.8044691	20	0.7858326	40	0.6816727		
Dichlorodifluoromethane (Freon)	2	1.753091	5	1.530581	10	1.546646	20	1.364805	40	1.078899		
1,1-Dichloroethane	2	1.624402	5	1.406122	10	1.37058	20	1.300784	40	1.211278		
1,2-Dichloroethane	2	1.134049	5	0.9866395	10	0.9893441	20	0.9249115	40	0.8686259		
1,1-Dichloroethylene	2	1.325862	5	1.161253	10	1.125303	20	1.07923	40	1.021681		

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NY

SDG: 12B0323

Project: Purex-Mitchell Field-NY

Calibration: 1200017

Instrument: SYSG

Calibration Date: 8/24/2010 12:00:21AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
cis-1,2-Dichloroethylene	2	1.234459	5	1.081938	10	1.047807	20	1.003251	40	0.913114		
trans-1,2-Dichloroethylene	2	1.315951	5	1.133151	10	1.122139	20	1.066659	40	0.9967067		
1,2-Dichloropropane	2	0.3918567	5	0.3398667	10	0.3313275	20	0.3039917	40	0.271115		
cis-1,3-Dichloropropene	2	0.5121396	5	0.476197	10	0.4742411	20	0.4545495	40	0.4139825		
trans-1,3-Dichloropropene	2	0.4751221	5	0.4458663	10	0.4618045	20	0.4447649	40	0.4109799		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2	1.744174	5	1.3283	10	1.336605	20	1.25409	40	1.102315		
1,4-Dioxane	2	0.1848235	5	0.1925232	10	0.1896737	20	0.1886488	40	0.1521791		
Ethanol	2	0.1758564	5	0.1299995	10	0.1278498	20	0.135284	40	0.150261	91	0.1574138
Ethyl Acetate	2	0.2780945	5	0.2627112	10	0.262923	20	0.2441454	40	0.2107298		
Ethylbenzene	2	1.531721	5	1.504736	10	1.433477	20	1.337639	40	1.15085		
4-Ethyltoluene	2	1.48274	5	1.589373	10	1.56339	20	1.455862	40	1.223216		
Heptane	2	0.3299097	5	0.2941411	10	0.283833	20	0.2575197	40	0.2106747		
Hexachlorobutadiene	2	0.4706564	5	0.4545085	10	0.4577299	20	0.4727886	40	0.3912508		
Hexane	2	1.016155	5	0.8624986	10	0.819022	20	0.7279106	40	0.6295533	91	0.4968267
2-Hexanone (MBK)	2	0.672638	5	0.7344826	10	0.6997063	20	0.6606848	40	0.564048		
Isopropanol	2	0.7961338	5	0.8305334	10	0.722885	20	0.7178676	40	0.7997079	91	0.7822385
Methyl tert-Butyl Ether (MTBE)	2	1.993247	5	1.957444	10	1.949289	20	1.903491	40	1.797953		
Methylene Chloride	2	1.018776	5	0.8824798	10	0.8429113	20	0.7885914	40	0.7273927	91	0.6547362
Methyl methacrylate	2	0.3110815	5	0.3129723	10	0.3128754	20	0.2986665	40	0.2719066		
4-Methyl-2-pentanone (MIBK)	2	0.6464384	5	0.6889665	10	0.6923624	20	0.6315057	40	0.5369908		
Naphthalene	2	1.310877	5	1.273629	10	1.191792	20	1.249076	40	1.038146		
Propene	2	0.6095224	5	0.5203325	10	0.5188901	20	0.4854746	40	0.4419074	91	0.4096127
Styrene	2	0.8547704	5	0.8822232	10	0.8579254	20	0.8259185	40	0.7133035		
1,1,1,2-Tetrachloroethane	0.454	1.546851	0.908	1.51404	1.82	1.833713	3.63	1.762502				
1,1,2,2-Tetrachloroethane	2	0.7919347	5	0.8251293	10	0.7880948	20	0.7371528	40	0.6040584		
Tetrachloroethylene	2	0.5287533	5	0.4936995	10	0.4795108	20	0.4647236	40	0.4105015		

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NYSDG: 12B0323Project: Purex-Mitchell Field-NYCalibration: 1200017Instrument: SYSGCalibration Date: 8/24/2010 12:00:21AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Tetrahydrofuran	2	0.3372623	5	0.3620876	10	0.3658566	20	0.3517146	40	0.3438926	91	0.3233466
Toluene	2	1.305114	5	1.185154	10	1.128163	20	1.06125	40	0.9271447		
1,2,4-Trichlorobenzene	2	0.5044816	5	0.5079614	10	0.4954308	20	0.5362763	40	0.4633357		
1,1,1-Trichloroethane	2	0.5926546	5	0.5101284	10	0.5051786	20	0.4944193	40	0.4631412		
1,1,2-Trichloroethane	2	0.4063451	5	0.3845556	10	0.3944688	20	0.360477	40	0.3479412		
Trichloroethylene	2	0.4334684	5	0.3800139	10	0.3664479	20	0.3479456	40	0.2958641		
Trichlorofluoromethane (Freon 11)	2	1.597771	5	1.407886	10	1.154448	20	1.06741	40	1.184752		
1,1,2-Trichloro-1,2,2-trifluoroethane	2	1.543915	5	1.337687	10	1.334533	20	1.277772	40	1.154505		
1,2,4-Trimethylbenzene	2	1.145508	5	1.26694	10	1.215754	20	1.192792	40	1.015351		
1,3,5-Trimethylbenzene	2	1.189848	5	1.262356	10	1.253519	20	1.179441	40	0.9909984		
2,2,4-Trimethylpentane	0.669	1.105002	1.338	1.074975	2.676	1.058167	5.351	1.062094				
Vinyl Acetate	2	2.428499	5	2.33972	10	2.282648	20	1.836823	40	1.678817		
Vinyl Chloride	2	0.686575	5	0.4724962	10	0.4655623	20	0.4436641	40	0.4302166		
m&p-Xylene	4	1.187072	10	1.196179	20	1.134141	40	1.046976	80	0.8588497		
o-Xylene	2	1.174805	5	1.166876	10	1.114294	20	1.051993	40	0.880906		
4-Bromofluorobenzene (1)	8	0.5472132	8	0.5430497	8	0.5411709	8	0.5337503	8	0.547521	8	0.5727763
4-Bromofluorobenzene (2)	8	2.90326	8	2.876201	8	3.175053	8	3.18142				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NY

SDG: 12B0323

Project: Purex-Mitchell Field-NY

Calibration: 1200017

Instrument: SYSG

Calibration Date: 8/24/2010 12:00:21AM

[illegible]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Client: Arcadis US, Inc. - Clifton Park-NY

SDG: 12B0323

Project: Purex-Mitchell Field-NY

Calibration: 1200017

Instrument: SYSG

Calibration Date: 8/24/2010 12:00:21AM

[illegible]

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Calibration:	1200017	Instrument:	SYSG
		Calibration Date:	8/24/2010 12:00:21AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.7780196	14.4			SPCC (0.05)	
Acrolein	0.1876009	19.2			SPCC (0.05)	
Benzene	0.9919301	14.8			SPCC (0.05)	
Benzyl chloride	0.8499213	13.8			SPCC (0.05)	
Bromodichloromethane	0.6068467	8.8			SPCC (0.05)	
Bromoform	0.4704248	11.9			SPCC (0.05)	
Bromomethane	0.5137459	17.2			SPCC (0.05)	
1,3-Butadiene	0.3659445	15.2			SPCC (0.05)	
2-Butanone (MEK)	1.576877	20.6			SPCC (0.05)	
tert-Butyl Alcohol (TBA)	0.467862	7.2			SPCC (0.05)	
Carbon Disulfide	2.225932	8.4			SPCC (0.05)	
Carbon Tetrachloride	0.4740071	6.0			SPCC (0.05)	
Chlorobenzene	0.9691024	18.9			SPCC (0.05)	
Chloroethane	0.2436821	12.8			SPCC (0.05)	
Chloroform	1.597242	9.8			SPCC (0.05)	
Chloromethane	0.4507408	16.2			SPCC (0.05)	
Cyclohexane	0.4185998	14.2			SPCC (0.05)	
Dibromochloromethane	0.5702959	8.1			SPCC (0.05)	
1,2-Dibromoethane (EDB)	0.6212373	15.7			SPCC (0.05)	
1,2-Dichlorobenzene	0.824805	19.6			SPCC (0.05)	
1,3-Dichlorobenzene	0.8705477	18.0			SPCC (0.05)	
1,4-Dichlorobenzene	0.8910381	18.0			SPCC (0.05)	
Dichlorodifluoromethane (Freon 12)	1.567894	13.6			SPCC (0.05)	
1,1-Dichloroethane	1.49737	10.9			SPCC (0.05)	
1,2-Dichloroethane	1.076954	13.2			SPCC (0.05)	
1,1-Dichloroethylene	1.211692	8.8			SPCC (0.05)	
cis-1,2-Dichloroethylene	1.140275	11.1			SPCC (0.05)	

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Calibration:	1200017	Instrument:	SYSG
		Calibration Date:	8/24/2010 12:00:21AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
trans-1,2-Dichloroethylene	1.208532	10.3			SPCC (0.05)	
1,2-Dichloropropane	0.3723186	16.6			SPCC (0.05)	
cis-1,3-Dichloropropene	0.4910029	13.0			SPCC (0.05)	
trans-1,3-Dichloropropene	0.4597172	11.6			SPCC (0.05)	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon	1.433844	12.7			SPCC (0.05)	
1,4-Dioxane	0.2208977	20.3			SPCC (0.05)	
Ethanol	0.1637235	25.6			SPCC (0.05)	
Ethyl Acetate	0.2785944	12.5			SPCC (0.05)	
Ethylbenzene	1.520996	12.7			SPCC (0.05)	
4-Ethyltoluene	1.585281	10.7			SPCC (0.05)	
Heptane	0.2978858	13.5			SPCC (0.05)	
Hexachlorobutadiene	0.538906	21.8			SPCC (0.05)	
Hexane	0.8183708	27.0			SPCC (0.05)	
2-Hexanone (MBK)	0.7787101	17.2			SPCC (0.05)	
Isopropanol	0.8186062	13.3			SPCC (0.05)	
Methyl tert-Butyl Ether (MTBE)	2.018342	6.3			SPCC (0.05)	
Methylene Chloride	0.8716831	22.2			SPCC (0.05)	
Methyl methacrylate	0.31987	8.5			SPCC (0.05)	
4-Methyl-2-pentanone (MIBK)	0.7454366	17.2			SPCC (0.05)	
Naphthalene	1.716989	37.8			SPCC (0.05)	
Propene	0.5245675	22.1			SPCC (0.05)	
Styrene	0.8778577	9.1			SPCC (0.05)	
1,1,1,2-Tetrachloroethane	1.6804	10.5			SPCC (0.05)	
1,1,2,2-Tetrachloroethane	0.9145309	22.0			SPCC (0.05)	
Tetrachloroethylene	0.5193439	11.7			SPCC (0.05)	
Tetrahydrofuran	0.3612585	10.2			SPCC (0.05)	
Toluene	1.204989	11.4			SPCC (0.05)	

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Calibration:	1200017	Instrument:	SYSG
		Calibration Date:	8/24/2010 12:00:21AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
1,2,4-Trichlorobenzene	0.5935905	20.3			SPCC (0.05)	
1,1,1-Trichloroethane	0.5355351	7.4			SPCC (0.05)	
1,1,2-Trichloroethane	0.4163953	12.6			SPCC (0.05)	
Trichloroethylene	0.4043424	14.2			SPCC (0.05)	
Trichlorofluoromethane (Freon 11)	1.24975	12.2			SPCC (0.05)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	1.416589	9.8			SPCC (0.05)	
1,2,4-Trimethylbenzene	1.301536	13.9			SPCC (0.05)	
1,3,5-Trimethylbenzene	1.310815	13.9			SPCC (0.05)	
2,2,4-Trimethylpentane	1.145207	11.3			SPCC (0.05)	
Vinyl Acetate	2.298612	14.5			SPCC (0.05)	
Vinyl Chloride	0.5346039	18.1			SPCC (0.05)	
m&p-Xylene	1.202997	13.6			SPCC (0.05)	
o-Xylene	1.196773	13.4			SPCC (0.05)	
4-Bromofluorobenzene (1)	0.5448037	2.1			SPCC (0.05)	
4-Bromofluorobenzene (2)	3.027016	4.3			SPCC (0.05)	

CALIBRATION DATA

INITIAL CALIBRATION STANDARDS

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001815	Instrument:	SYSG
Calibration:	1200017		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
1104246	TO-15 Calibration Standard 0.50 PPBv	S001815-CAL5	G082405.D	08/24/10 16:24
1104247	TO-15 Calibration Standard 1.0 PPBv	S001815-CAL6	G082406.D	08/24/10 17:02
1104248	TO-15 Calibration Standard 2.0 PPBv	S001815-CAL7	G082407.D	08/24/10 17:40
1104249	TO-15 Calibration Standard 5.0 PPBv	S001815-CAL8	G082408.D	08/24/10 18:18
1104250	TO-15 Calibration Standard 10.0 PPBv	S001815-CAL9	G082409.D	08/24/10 18:59
1104251	TO-15 Calibration Standard 20.0 PPBv	S001815-CALA	G082410.D	08/24/10 19:44
1104242	TO-15 Calibration Standard 0.025 PPBv	S001815-CAL1	G081002.D	08/10/11 18:52
1104243	TO-15 Calibration Standard 0.05 PPBv	S001815-CAL2	G081003.D	08/10/11 19:29
1104244	TO-15 Calibration Standard 0.10 PPBv	S001815-CAL3	G081004.D	08/10/11 20:07
1104245	TO-15 Calibration Standard 0.20 PPBv	S001815-CAL4	G081005.D	08/10/11 20:45
1104246	TO-15 Calibration Standard 0.50 PPBv	S001815-CAL5	G081006.D	08/10/11 21:24
1104247	TO-15 Calibration Standard 1.0 PPBv	S001815-CAL6	G081007.D	08/10/11 22:06
1104248	TO-15 Calibration Standard 2.0 PPBv	S001815-CAL7	G081009.D	08/10/11 23:21
1104249	TO-15 Calibration Standard 5.0 PPBv	S001815-CAL8	G081010.D	08/10/11 23:59
1104250	TO-15 Calibration Standard 10.0 PPBv	S001815-CAL9	G081011.D	08/11/11 00:38
1104251	TO-15 Calibration Standard 20.0 PPBv	S001815-CALA	G081012.D	08/11/11 01:19
1104252	TO-15 Calibration Standard 40.0 PPBv	S001815-CALB	G081013.D	08/11/11 02:04
1104254	TO-15 Calibration Standard 91.0 PPBv	S001815-CALC	G081014.D	08/11/11 02:45
1104255	TO-15 Calibration Standard 182.0 PPBv	S001815-CALD	G081015.D	08/11/11 03:31

Injection Log

C:\msdchem\1\DATA\G081011A\

Date	Filename	Lab ID	Sample Info
10 Aug 2011	6:14 pm G081001.D	BFB	
10 Aug 2011	6:52 pm G081002.D	0.025PPBv STD	CTWS-2617
10 Aug 2011	7:29 pm G081003.D	0.05PPBv STD	CTWS-2617
10 Aug 2011	8:07 pm G081004.D	0.10PPBv STD	CTWS-2617
10 Aug 2011	8:45 pm G081005.D	0.20PPBv STD	CTWS-2617
10 Aug 2011	9:24 pm G081006.D	0.50PPBv STD	CTWS-2617
10 Aug 2011	10:06 pm G081007.D	1.0PPBv STD	CTWS-2617
10 Aug 2011	10:43 pm G081008.D	1.0PPBv STD	CTWS-2618
10 Aug 2011	11:21 pm G081009.D	2.0PPBv STD	CTWS-2618
10 Aug 2011	11:59 pm G081010.D	5.0PPBv STD	CTWS-2618
11 Aug 2011	12:38 am G081011.D	10PPBv STD	CTWS-2618
11 Aug 2011	1:19 am G081012.D	20PPBv STD	CTWS-2618
11 Aug 2011	2:04 am G081013.D	40PPBv STD	CTWS-2618
11 Aug 2011	2:45 am G081014.D	91PPBv STD	CTWS-2581
11 Aug 2011	3:31 am G081015.D	182PPBv STD	CTWS-2581
11 Aug 2011	4:09 am G081016.D	CLUP	
11 Aug 2011	4:47 am G081017.D	5.0PPBv LCS	CTWS-2619
11 Aug 2011	5:25 am G081018.D	CLUP	
11 Aug 2011	6:10 am G081019.D	MBL	

Calibration Curve checked.
✓
AKAA
8-16-11

-----SEQUENCE TABLE -----

Sequence Name: C:\Smart\G081011.SEQ

Date: 08-10-2011

Time: 17:38:14

Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto #	Samp Pos	Cal Vol.	Std Vol.	Method	Time
BFB	2	2	10	0		C:\Smart\TO15.CTD	12:00
0.025PPBv STD	2	2	2	10	0	C:\Smart\TO15.CTD	12:00
0.05PPBv STD	2	2	2	20	0	C:\Smart\TO15.CTD	12:00
0.1PPBv STD	2	2	2	40	0	C:\Smart\TO15.CTD	12:00
0.2PPBv STD	2	2	2	80	0	C:\Smart\TO15.CTD	12:00
0.5PPBv STD	2	2	2	200	0	C:\Smart\TO15.CTD	12:00
1PPBv STD	2	2	2	400	0	C:\Smart\TO15.CTD	12:00
1PPBv STD	2	3	3	20	0	C:\Smart\TO15.CTD	12:00
2PPBv STD	2	3	3	40	0	C:\Smart\TO15.CTD	12:00
5PPBv STD	2	3	3	100	0	C:\Smart\TO15.CTD	12:00
10PPBv STD	2	3	3	200	0	C:\Smart\TO15.CTD	12:00
20PPBv STD	2	3	3	400	0	C:\Smart\TO15.CTD	12:00
40PPBv STD	2	3	3	800	0	C:\Smart\TO15.CTD	12:00
91PPBv STD	2	4	4	400	0	C:\Smart\TO15.CTD	12:00
182PPBv STD	2	4	4	800	0	C:\Smart\TO15.CTD	12:00
CLUP	2	1	1	100	0	C:\Smart\TO15.CTD	12:00
5PPBv LCS	2	5	5	100	0	C:\Smart\TO15.CTD	12:00
CLUP	1	1	1	100	0	C:\Smart\TO15.CTD	12:00
MBL0.5X	1	1	1	800	0	C:\Smart\TO15.CTD	12:00

Response Factor Report SYSG

Method Path : C:\msdchem\1\METHODS\

Method File : G081011.m

Title : INITIAL RTE INTERGRATOR METHOD

Last Update : Thu Aug 11 22:35:27 2011

Response Via : Initial Calibration

Calibration Files

1 = G081002.D 2 = G081003.D 3 = G081004.D 4 = G081005.D 5 = G081006.D 6 = G081007.D
 7 = G081009.D 8 = G081010.D 9 = G081011.D 10 = G081012.D 11 = G081013.D 12 = G081014.D
 13 = G081015.D

VLCRA
8-10-11

Compound	0.025	0.05	0.10	0.20	0.50	1.0	2.0	5.0	10	20	40	91	182	Avg	%RSD
	1	2	3	4	5	6	7	8	9	10	11	12	13		
-----ISTD-----															
1) I															
2) BROMOCHLOROMETHANE...					0.702	0.670	0.610	0.520	0.519	0.485	0.442	0.410	0.364	0.525	22.06
3) PROPENE														1.568	13.60
4) CHLORODIFLUOR...					1.701	1.758	1.657	1.742	1.547	1.753	1.547	1.365	1.079	0.451	16.17
5) CHLOROMETHANE					0.537	0.501	0.457	0.447	0.440	0.590	0.396	0.383	0.367	1.434	12.70
6) FREON 114					1.484	1.489	1.504	1.511	1.584	1.744	1.337	1.254	1.102	0.535	18.09
7) VINYL CHLORIDE					0.737	0.562	0.512	0.521	0.526	0.687	0.472	0.468	0.444	0.366	15.24
8) 1,3-BUTADIENE					0.439	0.354	0.343	0.363	0.375	0.487	0.337	0.334	0.320	0.514	17.20
9) BROMOMETHANE					0.672	0.565	0.518	0.502	0.506	0.637	0.453	0.454	0.429	0.244	12.84
10) CHLOROETHANE					0.257	0.260	0.244	0.215	0.256	0.257	0.318	0.220	0.221	0.188	19.18
11) ACROLEIN					0.273	0.208	0.182	0.179	0.174	0.206	0.181	0.151	0.145	0.778	14.45
12) ACETONE									0.987	0.851	0.786	0.658	0.638	0.800	12.22
13) TRICHLOROFLUOR...					1.192	1.179	1.162	1.276	1.275	1.598	1.408	1.154	1.067	1.250	25.63
14) ETHANOL									0.256	0.176	0.130	0.128	0.135	0.164	8.76
15) 1,1-DICHLOROET...					1.295	1.351	1.234	1.184	1.268	1.283	1.326	1.161	1.125	1.212	22.18
16) METHYLENE CHLO...									1.166	1.060	1.015	1.019	0.882	0.843	9.75
17) FREON 113					1.589	1.447	1.430	1.519	1.532	1.544	1.338	1.335	1.278	1.417	8.41
18) CARBON DISULFIDE					2.477	2.320	2.173	2.293	2.345	2.460	2.146	2.121	2.033	2.226	10.29
19) TRANS-1,2-DICH...					1.433	1.298	1.250	1.183	1.224	1.272	1.316	1.133	1.122	1.209	10.93
20) 1,1-DICHLOROET...					1.768	1.585	1.629	1.461	1.554	1.561	1.624	1.406	1.371	1.497	6.31
21) MTBE					2.188	2.080	1.991	2.142	2.180	1.993	1.957	1.949	1.903	2.018	13.27
22) IPA									0.962	1.028	0.796	0.831	0.723	0.819	20.60
23) 2-BUTANONE (MEK)					2.254	1.899	1.751	1.748	1.752	1.494	1.477	1.521	1.429	1.577	11.12
24) CIS-1,2-DICHLOR...					1.356	1.276	1.165	1.110	1.176	1.180	1.234	1.082	1.048	1.140	14.54
25) VINYL ACETATE					2.876	2.462	2.274	2.347	2.460	2.428	2.340	2.283	1.837	2.299	26.99
26) HEXANE					1.081	1.003	0.888	0.956	0.967	1.016	0.862	0.819	0.728	0.818	12.52
27) ETHYL ACETATE					0.328	0.305	0.282	0.305	0.307	0.278	0.263	0.263	0.244	0.279	9.80
28) CHLOROFORM					1.779	1.747	1.674	1.566	1.633	1.675	1.768	1.537	1.502	1.597	10.17
29) TETRAHYDROFURAN									0.376	0.386	0.389	0.402	0.415	0.361	13.24
30) 1,2-DICHLOROET...					1.392	1.187	1.145	1.037	1.092	1.134	0.987	0.989	0.925	1.077	
-----ISTD-----															
31) 1,4-DIFLUOROBENZEN...															
32) 1,1,1-TRICHLOR...					0.570	0.552	0.539	0.532	0.553	0.580	0.593	0.510	0.505	0.536	7.35
33) BENZENE					1.291	1.134	1.022	0.985	1.007	1.022	1.066	0.907	0.889	0.992	14.84
34) CARBON TETRACH...					0.450	0.440	0.462	0.448	0.466	0.506	0.530	0.487	0.494	0.474	5.95
35) CYCLOHEXANE									0.532	0.459	0.427	0.437	0.436	0.419	14.20
36) 1,2-DICHLOROPR...					0.503	0.419	0.370	0.381	0.386	0.398	0.392	0.340	0.331	0.372	16.60

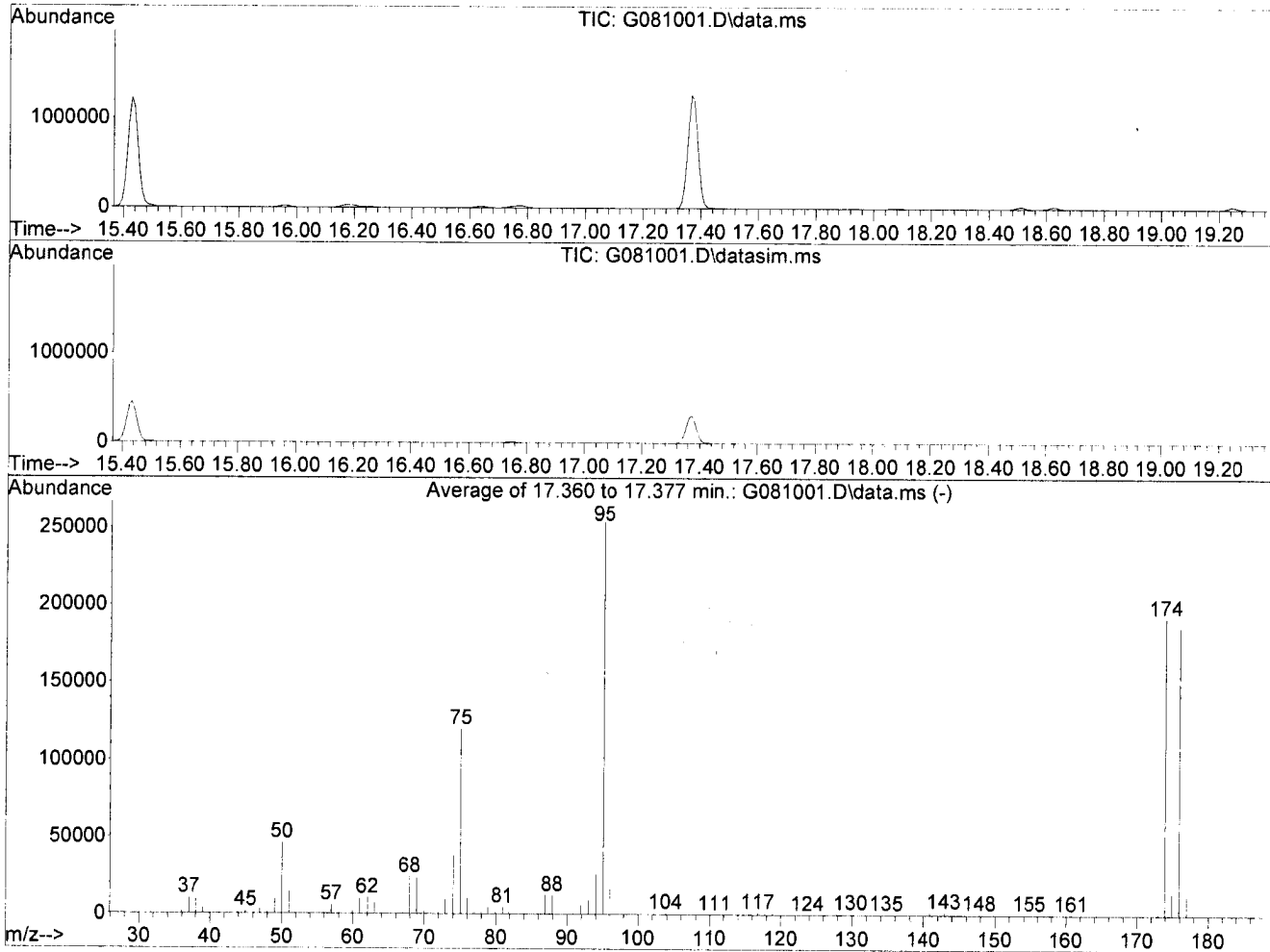
36)	BROMODICHLOROM...	0.693	0.594	0.580	0.592	0.628	0.652	0.678	0.594	0.591	0.568	0.505	0.607	8.76
37)	TRICHLOROETHENE	0.514	0.453	0.405	0.413	0.412	0.427	0.433	0.380	0.366	0.348	0.296	0.404	14.18
38)	1,4-DIOXANE	0.291	0.270	0.243	0.249	0.248	0.185	0.193	0.190	0.189	0.152	0.221	0.221	20.33
39)	METHYLMETHACRY...	0.366	0.309	0.325	0.337	0.354	0.311	0.313	0.313	0.299	0.272	0.320	0.320	8.51
40)	HEPTANE	0.314	0.292	0.324	0.330	0.342	0.330	0.294	0.284	0.258	0.211	0.298	0.298	13.46
41)	MIBK	0.970	0.790	0.820	0.824	0.853	0.646	0.689	0.692	0.632	0.537	0.745	0.745	17.21
42)	CIS-1,3-DICHLOR...	0.657	0.520	0.455	0.440	0.485	0.512	0.512	0.476	0.474	0.455	0.414	0.491	13.04
43)	TRANS-1,3-DICHL...	0.608	0.463	0.421	0.422	0.435	0.470	0.475	0.446	0.462	0.445	0.411	0.460	11.64
44)	I	-----ISTD-----												
45)	CHLOROBENZENE-D5 (1)	0.542	0.462	0.431	0.422	0.405	0.425	0.406	0.385	0.394	0.360	0.348	0.416	12.64
46)	1,1,2-TRICHLOR...	1.413	1.297	1.253	1.241	1.239	1.305	1.185	1.128	1.061	0.927	1.205	1.205	11.43
47)	TOLUENE	1.004	0.896	0.856	0.832	0.868	0.673	0.734	0.700	0.661	0.564	0.779	0.779	17.16
48)	2-HEXANONE (MBK)	0.640	0.536	0.517	0.514	0.560	0.603	0.623	0.609	0.590	0.572	0.511	0.570	8.09
49)	DIBROMOCHLOROM...	0.874	0.650	0.646	0.614	0.607	0.628	0.639	0.588	0.563	0.542	0.483	0.621	15.74
50)	1,2-DIBROMOETHANE	0.648	0.571	0.530	0.532	0.518	0.537	0.529	0.494	0.480	0.465	0.411	0.519	11.69
51)	TETRACHLOROETHENE	1.369	1.214	1.017	0.988	0.947	0.950	0.916	0.879	0.844	0.811	0.726	0.969	18.87
52)	CHLOROBENZENE	1.875	1.646	1.544	1.556	1.630	1.532	1.505	1.433	1.338	1.151	1.521	1.521	12.65
53)	ETHYLBENZENE	1.444	1.346	1.278	1.239	1.301	1.187	1.196	1.134	1.047	0.859	1.203	1.203	13.65
54)	M/P-XYLENE	0.434	0.383	0.399	0.431	0.491	0.486	0.526	0.536	0.538	0.479	0.470	0.470	11.92
55)	BROMOFORM	1.024	0.929	0.880	0.888	0.923	0.855	0.882	0.858	0.826	0.713	0.878	0.878	9.06
56)	STYRENE	1.455	1.349	1.280	1.242	1.253	1.175	1.167	1.114	1.052	0.881	1.197	1.197	13.39
57)	O-XYLENE	1.140	1.000	0.940	0.956	0.943	0.792	0.825	0.788	0.737	0.604	0.915	0.915	21.99
58)	1,1,2,2-TETRAC...	1.334	1.140	1.000	0.940	0.956	0.943	0.792	0.825	0.788	0.737	0.604	0.915	21.99
59)	4-BROMOFLUOROB...	0.535	0.538	0.534	0.539	0.540	0.546	0.547	0.543	0.541	0.534	0.548	0.545	2.13
60)	4-ETHYLTOLUENE	1.838	1.710	1.669	1.631	1.690	1.483	1.589	1.563	1.456	1.223	1.585	1.585	10.69
61)	1,3,5-TRIMETHY...	1.671	1.424	1.374	1.367	1.396	1.190	1.262	1.254	1.179	0.991	1.311	1.311	13.86
62)	1,2,4-TRIMETHY...	1.674	1.426	1.322	1.349	1.408	1.146	1.267	1.216	1.193	1.015	1.302	1.302	13.91
63)	1,3-DICHLOROB...	1.194	1.006	0.937	0.884	0.926	0.751	0.819	0.797	0.756	0.634	0.871	0.871	18.04
64)	BENZYL CHLORIDE	0.909	0.747	0.689	0.738	0.831	0.745	0.957	0.983	1.021	0.878	0.850	0.850	13.77
65)	1,4-DICHLOROB...	1.235	1.040	0.958	0.912	0.918	0.753	0.822	0.804	0.786	0.682	0.891	0.891	18.04
66)	1,2-DICHLOROB...	1.167	0.991	0.883	0.851	0.845	0.678	0.752	0.716	0.738	0.628	0.825	0.825	19.56
67)	1,2,4-TRICHLOR...	0.821	0.697	0.651	0.666	0.504	0.508	0.495	0.536	0.463	0.463	0.594	0.594	20.28
68)	NAPHTHALENE	2.464	1.983	1.804	1.781	1.311	1.274	1.192	1.249	1.038	1.038	1.566	1.566	29.88
69)	HEXACHLOROBUTA...	0.794	0.647	0.563	0.566	0.571	0.471	0.455	0.458	0.473	0.391	0.539	0.539	21.77

(#) = Out of Range														

Data Path : C:\msdchem\1\DATA\G081011\
 Data File : G081001.D
 Acq On : 10 Aug 2011 6:14 pm
 Operator : WSD
 Sample : BFB
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: WSD.P
 Integration File signal 2: rteint2.p

Method : C:\msdchem\1\METHODS\G081011.m
 Title : INITIAL RTE INTERGRATOR METHOD
 Last Update : Mon Aug 15 11:06:02 2011



AutoFind: Scans 1594, 1595, 1596; Background Corrected with Scan 1586

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.1	46061	PASS
75	95	30	66	47.2	120053	PASS
95	95	100	100	100.0	254144	PASS
96	95	5	9	6.7	16936	PASS
173	174	0.00	2	0.6	1167	PASS
174	95	50	120	75.6	192043	PASS
175	174	4	9	7.3	14000	PASS
176	174	93	101	96.9	186069	PASS
177	176	5	9	6.6	12341	PASS

Data File : C:\msdchem\1\DATA\G081011\G081002.D
 Acq On : 10 Aug 2011 6:52 pm
 Sample : 0.025PPBv STD
 Misc : CTWS-2617
 Quant Time: Aug 11 22:17:08 2011

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

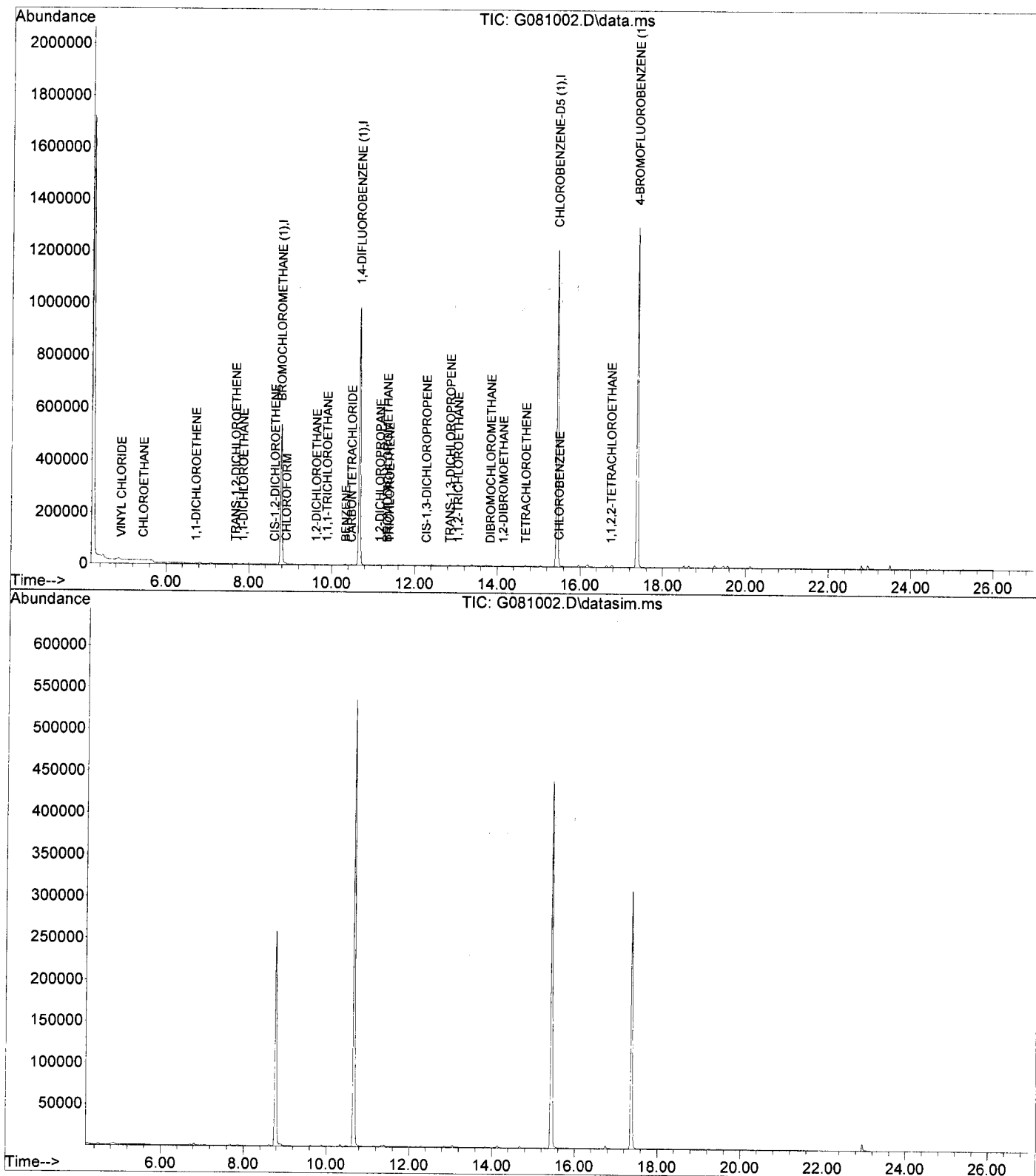
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.778	49	396441✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.672	114	1050679✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	986216✓	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	528023✓	8.26	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.25%
Target Compounds						
						Qvalue
6) VINYL CHLORIDE	4.918	62	913✓	0.028	PPBV	73
9) CHLOROETHANE	5.454	64	318✓	0.021	PPBV #	16
14) 1,1-DICHLOROETHENE	6.719	61	1604✓	0.028	PPBV	88
18) TRANS-1,2-DICHLOROETHENE	7.675	61	1775✓	0.032	PPBV	90
19) 1,1-DICHLOROETHANE	7.857	63	2190✓	0.031	PPBV	97
23) CIS-1,2-DICHLOROETHENE	8.630	61	1680✓	0.032	PPBV	89
27) CHLOROFORM	8.908	83	2204✓	0.031	PPBV	96
29) 1,2-DICHLOROETHANE	9.624	62	1724✓	0.037	PPBV #	91
31) 1,1,1-TRICHLOROETHANE	9.882	97	1871✓	0.028	PPBV	96
32) BENZENE	10.339	78	4239✓	0.035	PPBV	88
33) CARBON TETRACHLORIDE	10.480	117	1476✓	0.024	PPBV	88
35) 1,2-DICHLOROPROPANE	11.162	63	1651✓	0.033	PPBV	86
36) BROMODICHLOROMETHANE	11.335	83	2276✓	0.030	PPBV #	94
37) TRICHLOROETHENE	11.390	95	1688✓	0.034	PPBV	94
42) CIS-1,3-DICHLOROPROPENE	12.286	75	2157✓	0.034	PPBV	79
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	1996✓	0.033	PPBV	94
45) 1,1,2-TRICHLOROETHANE	13.049	97	1670✓	0.037	PPBV	92
48) DIBROMOCHLOROMETHANE	13.832	129	1971✓	0.032	PPBV	92
49) 1,2-DIBROMOETHANE	14.136	107	2693✓	0.040	PPBV	95
50) TETRACHLOROETHENE	14.683	166	1996✓	0.038	PPBV	99
51) CHLOROBENZENE	15.492	112	4220✓	0.043	PPBV #	1
57) 1,1,2,2-TETRACHLOROETHANE	16.752	83	4112✓	0.039	PPBV #	96

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

Data File : C:\msdchem\1\DATA\G081011\G081002.D
Acq On : 10 Aug 2011 6:52 pm
Sample : 0.025PPBV STD
Misc : CTWS-2617
Quant Time: Aug 11 22:17:08 2011

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G081011\G081003.D
 Acq On : 10 Aug 2011 7:29 pm
 Sample : 0.05PPBV STD
 Misc : CTWS-2617
 Quant Time: Aug 15 11:04:28 2011

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.777	49	403523✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1101620✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	988813✓	8.00	PPBV	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1) 17.377 174 531787✓ 8.30 PPBV 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 103.75%

Target Compounds

						Qvalue
2) PROPENE	4.476	41	5040✓	0.176	PPBV	# 84
3) DICHLORODIFLUOROMETHANE	4.543	85	4291✓	0.057	PPBV	99
4) CHLOROMETHANE	4.690	50	1354✓	0.046	PPBV	83
5) FREON 114	4.797	85	3742✓	0.043	PPBV	94
6) VINYL CHLORIDE	4.918	62	1418✓	0.043	PPBV	86
7) 1,3-BUTADIENE	5.052	54	1107✓	0.050	PPBV	86
8) BROMOMETHANE	5.307	94	1696✓	0.055	PPBV	81
9) CHLOROETHANE	5.468	64	656✓	0.043	PPBV	97
10) ACROLEIN	5.903	56	688✓	0.065	PPBV	# 62
11) ACETONE	6.042	43	6711✓	0.179	PPBV	89
12) TRICHLOROFLUOROMETHANE	6.155	101	3007✓	0.044	PPBV	96
13) ETHANOL	5.588	45	1405✓	0.162	PPBV	86
14) 1,1-DICHLOROETHENE	6.719	61	3408✓	0.059	PPBV	93
15) METHYLENE CHLORIDE	6.815	49	5553✓	0.120	PPBV	84
16) FREON 113	7.075	101	4008✓	0.065	PPBV	97
17) CARBON DISULFIDE	7.119	76	6248✓	0.062	PPBV	74
18) TRANS-1,2-DICHLOROETHENE	7.675	61	3273✓	0.059	PPBV	86
19) 1,1-DICHLOROETHANE	7.857	63	3998✓	0.056	PPBV	98
20) MTBE	7.996	73	5519✓	0.059	PPBV	91
21) IPA	6.294	45	3921✓	0.102	PPBV	99
22) 2-BUTANONE (MEK)	8.291	43	5684✓	0.080	PPBV	91
23) CIS-1,2-DICHLOROETHENE	8.639	61	3219✓	0.061	PPBV	93
24) VINYL ACETATE	8.005	43	7254✓	0.083	PPBV	94
25) HEXANE	8.847	41	2727✓	0.062	PPBV	95
26) ETHYL ACETATE	8.882	61	827✓	0.063	PPBV	# 75
27) CHLOROFORM	8.908	83	4406✓	0.062	PPBV	97
28) TETRAHYDROFURAN	9.384	71	948✓	0.059	PPBV	91
29) 1,2-DICHLOROETHANE	9.616	62	2993✓	0.063	PPBV	# 93
31) 1,1,1-TRICHLOROETHANE	9.882	97	3802✓	0.053	PPBV	96
32) BENZENE	10.330	78	7808✓	0.061	PPBV	95
33) CARBON TETRACHLORIDE	10.488	117	3032✓	0.048	PPBV	98
34) CYCLOHEXANE	10.622	84	3664✓	0.068	PPBV	81
35) 1,2-DICHLOROPROPANE	11.162	63	2887✓	0.056	PPBV	93
36) BROMODICHLOROMETHANE	11.335	83	4089✓	0.051	PPBV	96
37) TRICHLOROETHENE	11.390	95	3118✓	0.061	PPBV	98
38) 1,4-DIOXANE	11.500	88	2001✓	0.075	PPBV	96
39) METHYLMETHACRYLATE	11.618	69	2520✓	0.063	PPBV	99
40) HEPTANE	11.720	57	2159✓	0.051	PPBV	98
41) MIBK	12.404	43	6680✓	0.065	PPBV	99
42) CIS-1,3-DICHLOROPROPENE	12.294	75	3583✓	0.053	PPBV	98
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	3186✓	0.050	PPBV	95
45) 1,1,2-TRICHLOROETHANE	13.049	97	2856✓	0.063	PPBV	94
46) TOLUENE	13.380	91	8734✓	0.068	PPBV	96
47) 2-HEXANONE (MBK)	13.727	43	6204✓	0.097	PPBV	94
48) DIBROMOCHLOROMETHANE	13.840	129	3312✓	0.053	PPBV	96
49) 1,2-DIBROMOETHANE	14.136	107	4016✓	0.059	PPBV	98

Data File : C:\msdchem\1\DATA\G081011\G081003.D
Acq On : 10 Aug 2011 7:29 pm
Sample : 0.05PPBV STD
Misc : CTWS-2617
Quant Time: Aug 15 11:04:28 2011

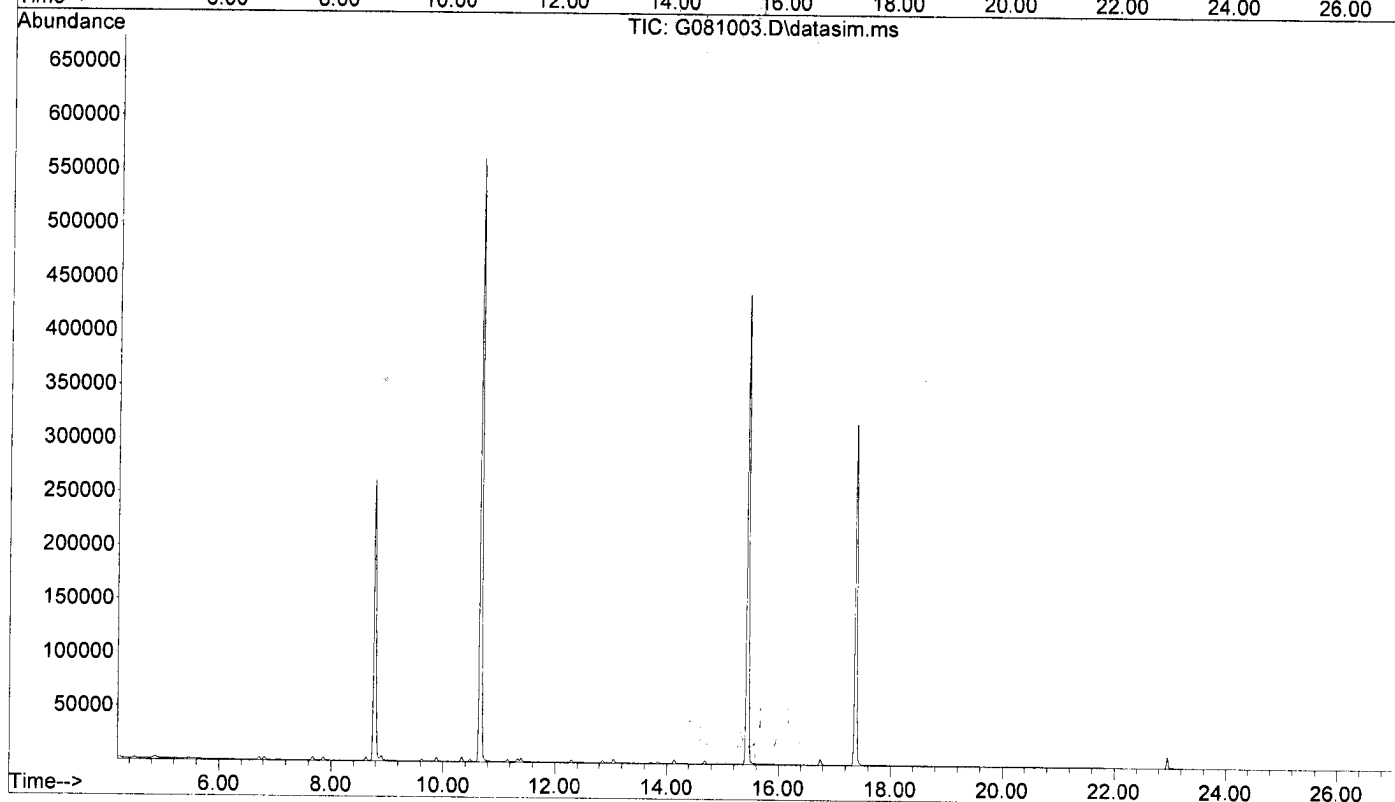
Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) TETRACHLOROETHENE	14.692	166	3529 ✓	0.067	PPBV	98
51) CHLOROBENZENE	15.491	112	7501 ✓	0.077	PPBV	84
52) ETHYLBENZENE	15.961	91	11587 ✓	0.071	PPBV	99
53) M/P-XYLENE	16.178	91	17848 ✓	0.138	PPBV	99
54) BROMOFORM	16.256	173	2682 ✓	0.052	PPBV	90
55) STYRENE	16.638	104	6331 ✓	0.072	PPBV	100
56) O-XYLENE	16.786	91	8993 ✓	0.070	PPBV	100
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	7045 ✓	0.067	PPBV	94
59) 4-ETHYLTOLUENE	18.515	105	11361 ✓	0.067	PPBV	99
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	10328 ✓	0.077	PPBV	95
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	10346 ✓	0.074	PPBV	99
62) 1,3-DICHLOROBENZENE	19.463	146	7378 ✓	0.081	PPBV	99
63) BENZYL CHLORIDE	19.436	91	5620 ✓	0.047	PPBV	100
64) 1,4-DICHLOROBENZENE	19.567	146	7635 ✓	0.083	PPBV	97
65) 1,2-DICHLOROBENZENE	20.123	146	7212 ✓	0.083	PPBV	94
66) 1,2,4-TRICHLOROBENZENE	22.808	180	7093 ✓	0.095	PPBV	97
67) NAPHTHALENE	22.953	128	19002m ✓	0.096	PPBV	
68) HEXACHLOROBUTADIENE	23.492	225	4909 ✓	0.084	PPBV	100

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

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

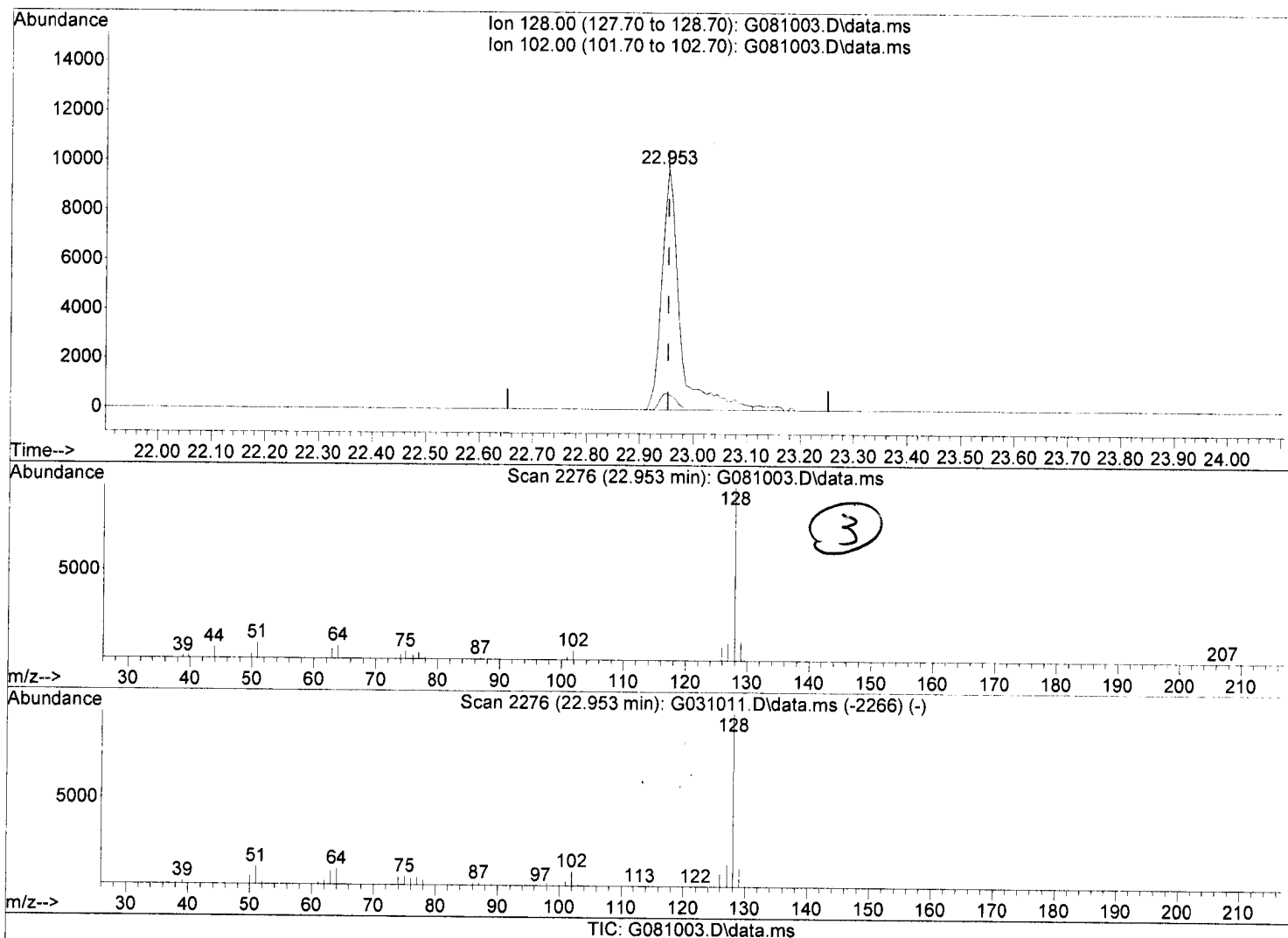
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Data File : C:\msdchem\1\DATA\G081011\G081003.D
Acq On : 10 Aug 2011 7:29 pm
Sample : 0.05PPBV STD
Misc : CTWS-2617
Quant Time: Aug 11 13:01:25 2011

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

JW



(67) NAPHTHALENE

22.953min (-0.000) 0.12 PPBV

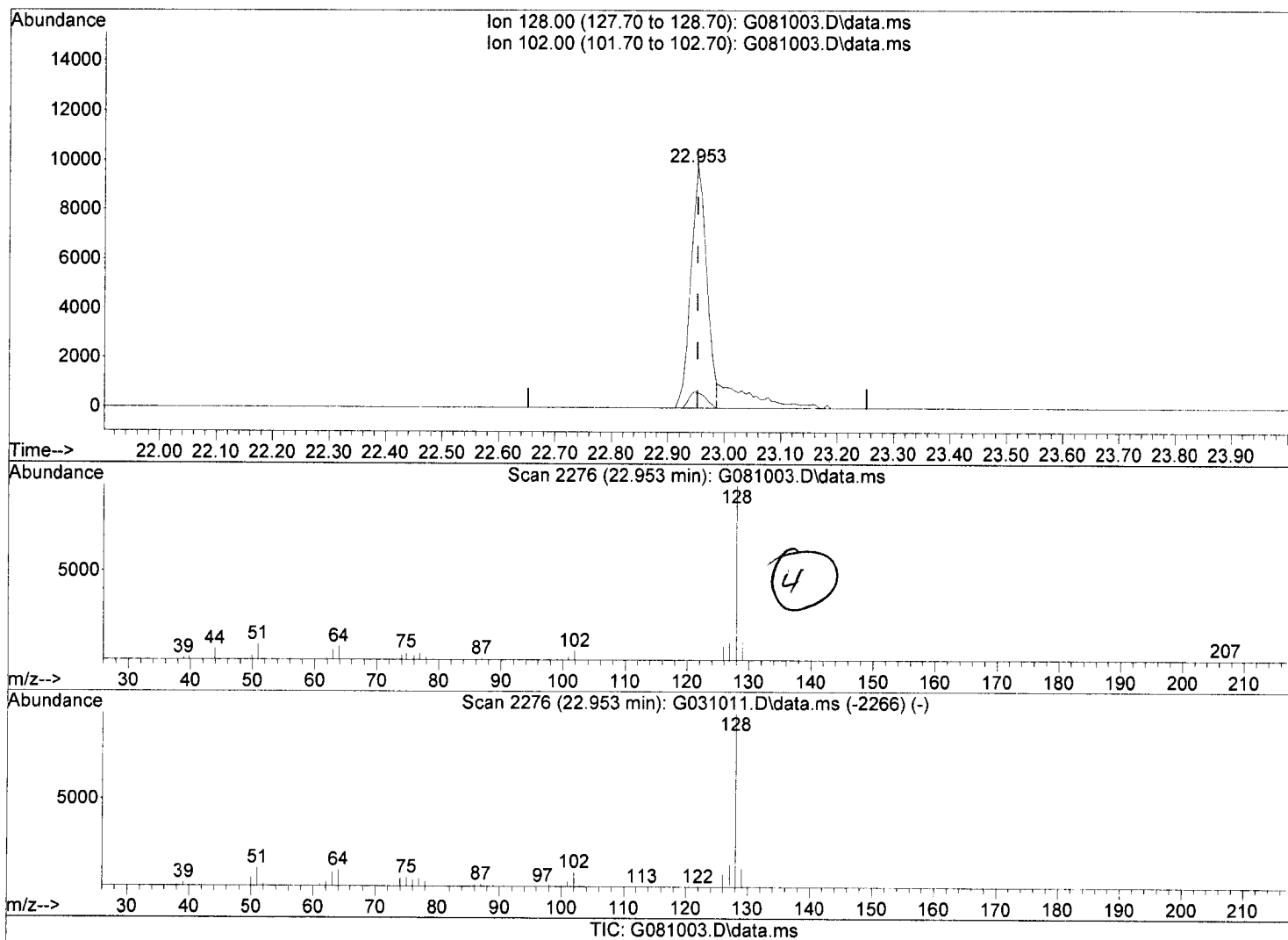
response 22821

Ion	Exp%	Act%
128.00	100	100
102.00	8.60	5.64
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\msdchem\1\DATA\G081011\G081003.D
Acq On : 10 Aug 2011 7:29 pm
Sample : 0.05PPBV STD
Misc : CTWS-2617
Quant Time: Aug 15 11:04:28 2011

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth: TO15RUN.M



(67) NAPHTHALENE

22.953min (-0.000) 0.10 PPBV m

response 19002

Ion	Exp%	Act%
128.00	100	100
102.00	8.60	6.77
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\msdchem\1\DATA\G081011\G081004.D
 Acq On : 10 Aug 2011 8:07 pm
 Sample : 0.10PPBV STD
 Misc : CTWS-2617
 Quant Time: Aug 11 13:01:27 2011

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.777	49	410026✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1100752✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	995939✓	8.00	PPBV	0.00

System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	531670✓	8.24	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.469	41	6363✓	0.219	PPBV	89
3) DICHLORODIFLUOROMETHANE	4.543	85	9008✓	0.118	PPBV	99
4) CHLOROMETHANE	4.704	50	2568✓	0.086	PPBV	97
5) FREON 114	4.797	85	7632✓	0.087	PPBV	94
6) VINYL CHLORIDE	4.918	62	2622✓	0.078	PPBV	99
7) 1,3-BUTADIENE	5.039	54	1813✓	0.080	PPBV	81
8) BROMOMETHANE	5.300	94	2895✓	0.092	PPBV	95
9) CHLOROETHANE	5.461	64	1252✓	0.081	PPBV	# 45
10) ACROLEIN	5.894	56	1068✓	0.099	PPBV	# 74
11) ACETONE	6.042	43	9231✓	0.243	PPBV	93
12) TRICHLOROFLUOROMETHANE	6.155	101	6045✓	0.087	PPBV	98
13) ETHANOL	5.602	45	1629✓	0.184	PPBV	65
14) 1,1-DICHLOROETHENE	6.719	61	6327✓	0.107	PPBV	95
15) METHYLENE CHLORIDE	6.815	49	8044✓	0.172	PPBV	93
16) FREON 113	7.075	101	7416✓	0.119	PPBV	94
17) CARBON DISULFIDE	7.110	76	11891✓	0.116	PPBV	86
18) TRANS-1,2-DICHLOROETHENE	7.675	61	6408✓	0.113	PPBV	90
19) 1,1-DICHLOROETHANE	7.857	63	8349✓	0.115	PPBV	95
20) MTBE	7.996	73	10662✓	0.112	PPBV	93
21) IPA	6.198	45	380✓	0.010	PPBV	72
22) 2-BUTANONE (MEK)	8.282	43	9731✓	0.135	PPBV	98
23) CIS-1,2-DICHLOROETHENE	8.638	61	5971✓	0.111	PPBV	90
24) VINYL ACETATE	8.005	43	12619✓	0.142	PPBV	97
25) HEXANE	8.847	41	5141✓	0.116	PPBV	93
26) ETHYL ACETATE	8.873	61	1562✓	0.117	PPBV	# 86
27) CHLOROFORM	8.908	83	8578✓	0.118	PPBV	99
28) TETRAHYDROFURAN	9.367	71	1980✓	0.122	PPBV	93
29) 1,2-DICHLOROETHANE	9.624	62	5867✓	0.121	PPBV	97
31) 1,1,1-TRICHLOROETHANE	9.882	97	7411✓	0.104	PPBV	99
32) BENZENE	10.330	78	14064✓	0.110	PPBV	96
33) CARBON TETRACHLORIDE	10.488	117	6360✓	0.101	PPBV	98
34) CYCLOHEXANE	10.622	84	6310✓	0.118	PPBV	83
35) 1,2-DICHLOROPROPANE	11.154	63	5089✓	0.098	PPBV	98
36) BROMODICHLOROMETHANE	11.343	83	7985✓	0.100	PPBV	99
37) TRICHLOROETHENE	11.398	95	5575✓	0.109	PPBV	95
38) 1,4-DIOXANE	11.484	88	3717✓	0.140	PPBV	92
39) METHYLMETHACRYLATE	11.610	69	4254✓	0.106	PPBV	94
40) HEPTANE	11.712	57	4024✓	0.096	PPBV	100
41) MIBK	12.404	43	10876✓	0.106	PPBV	99
42) CIS-1,3-DICHLOROPROPENE	12.286	75	6255✓	0.093	PPBV	99
43) TRANS-1,3-DICHLOROPROPENE	12.860	75	5797✓	0.091	PPBV	98
45) 1,1,2-TRICHLOROETHANE	13.057	97	5365✓	0.117	PPBV	95
46) TOLUENE	13.380	91	16142✓	0.124	PPBV	98
47) 2-HEXANONE (MBK)	13.727	43	11151✓	0.173	PPBV	99
48) DIBROMOCHLOROMETHANE	13.840	129	6434✓	0.102	PPBV	98
49) 1,2-DIBROMOETHANE	14.136	107	8040✓	0.118	PPBV	95

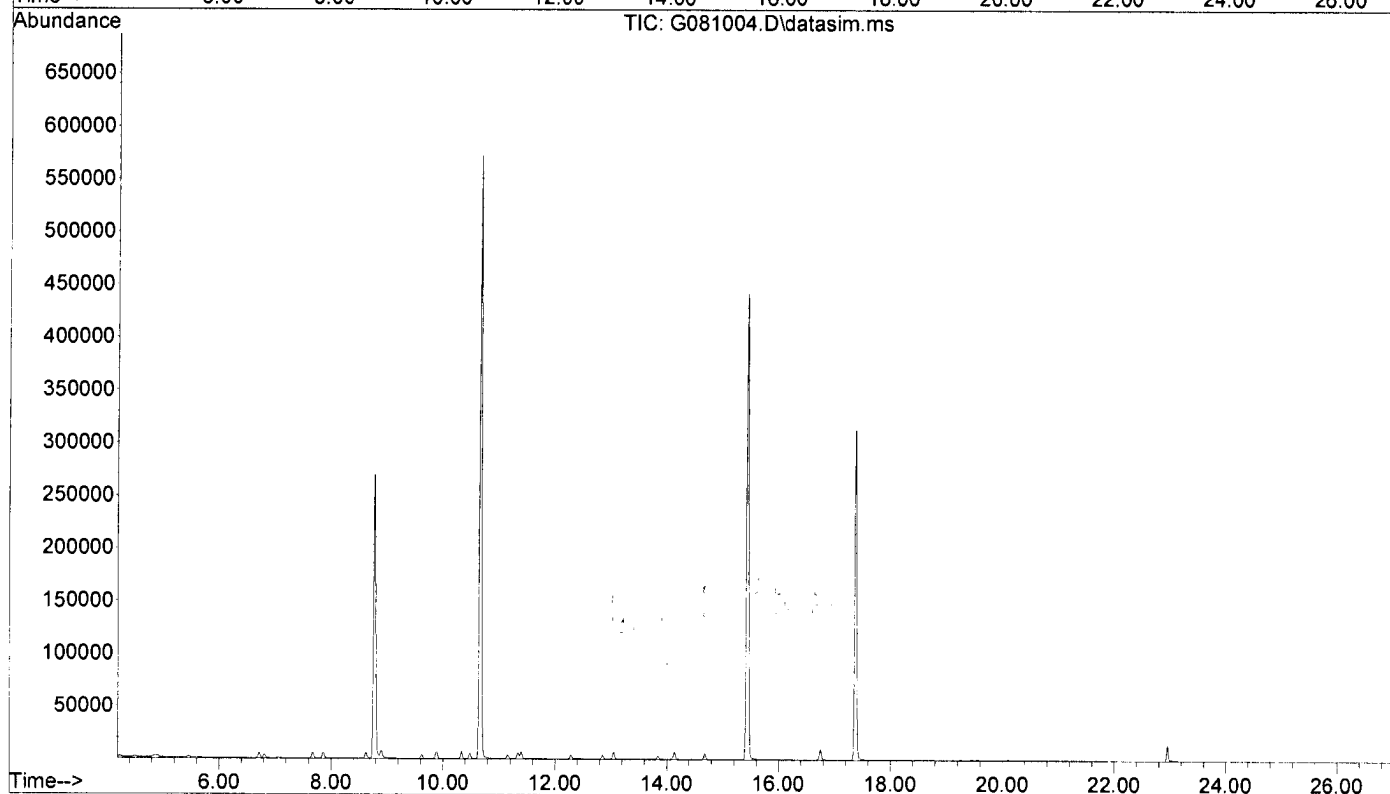
Data File : C:\msdchem\1\DATA\G081011\G081004.D Vial: 22
Acq On : 10 Aug 2011 8:07 pm Operator: WSD
Sample : 0.10PPBV STD Inst : SYSG
Misc : CTWS-2617 Multiplr: 1.00
Quant Time: Aug 11 13:01:27 2011

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
50) TETRACHLOROETHENE	14.683	166	6593✓	0.125	PPBV	97
51) CHLOROBENZENE	15.491	112	12667✓	0.129	PPBV	92
52) ETHYLBENZENE	15.961	91	20490✓	0.125	PPBV	99
53) M/P-XYLENE	16.187	91	33502✓	0.257	PPBV	97
54) BROMOFORM	16.247	173	4769✓	0.091	PPBV	96
55) STYRENE	16.638	104	11560✓	0.130	PPBV	97
56) O-XYLENE	16.786	91	16797✓	0.129	PPBV	99
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	12448✓	0.118	PPBV	99
59) 4-ETHYLTOLUENE	18.507	105	21293✓	0.125	PPBV	100
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	17733✓	0.131	PPBV	100
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	17747✓	0.125	PPBV	97
62) 1,3-DICHLOROBENZENE	19.462	146	12527✓	0.136	PPBV	96
63) BENZYL CHLORIDE	19.436	91	9297✓	0.077	PPBV	95
64) 1,4-DICHLOROBENZENE	19.567	146	12945✓	0.140	PPBV	97
65) 1,2-DICHLOROBENZENE	20.114	146	12335✓	0.141	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	10215✓	0.136	PPBV	98
67) NAPHTHALENE	22.953	128	30672✓	0.154	PPBV	96
68) HEXACHLOROBUTADIENE	23.492	225	8053✓	0.136	PPBV	99

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

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

[illegible]

Data File : C:\msdchem\1\DATA\G081011\G081005.D
 Acq On : 10 Aug 2011 8:45 pm
 Sample : 0.20PPBV STD
 Misc : CTWS-2617
 Quant Time: Aug 11 13:01:29 2011

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	415344✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.672	114	1082768✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.440	117	986972✓	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	531942✓	8.32	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.00%
Target Compounds						
						Qvalue
2) PROPENE	4.476	41	9389✓	0.318	PPBV	90
3) DICHLORODIFLUOROMETHANE	4.543	85	17208✓	0.222	PPBV	99
4) CHLOROMETHANE	4.697	50	4750✓	0.158	PPBV	99
5) FREON 114	4.804	85	15622✓	0.176	PPBV	97
6) VINYL CHLORIDE	4.918	62	5443✓	0.159	PPBV	99
7) 1,3-BUTADIENE	5.052	54	3560✓	0.155	PPBV	89
8) BROMOMETHANE	5.300	94	5379✓	0.169	PPBV	92
9) CHLOROETHANE	5.455	64	2232✓	0.142	PPBV	# 57
10) ACROLEIN	5.903	56	1894✓	0.174	PPBV	86
11) ACETONE	6.042	43	14346✓	0.372	PPBV	88
12) TRICHLOROFLUOROMETHANE	6.164	101	12067✓	0.171	PPBV	99
13) ETHANOL	5.595	45	2844✓	0.318	PPBV	88
14) 1,1-DICHLOROETHENE	6.720	61	12292✓	0.205	PPBV	91
15) METHYLENE CHLORIDE	6.824	49	12109✓	0.255	PPBV	90
16) FREON 113	7.076	101	14852✓	0.236	PPBV	92
17) CARBON DISULFIDE	7.119	76	22560✓	0.217	PPBV	91
18) TRANS-1,2-DICHLOROETHENE	7.675	61	12282✓	0.214	PPBV	92
19) 1,1-DICHLOROETHANE	7.866	63	15173✓	0.207	PPBV	98
20) MTBE	7.987	73	20678✓	0.215	PPBV	98
21) IPA	6.172	45	654✓	0.017	PPBV	94
22) 2-BUTANONE (MEK)	8.283	43	18183✓	0.249	PPBV	98
23) CIS-1,2-DICHLOROETHENE	8.630	61	11521✓	0.212	PPBV	90
24) VINYL ACETATE	8.005	43	23612✓	0.262	PPBV	97
25) HEXANE	8.847	41	9222✓	0.205	PPBV	95
26) ETHYL ACETATE	8.882	61	2931✓	0.217	PPBV	96
27) CHLOROFORM	8.908	83	16263✓	0.221	PPBV	98
28) TETRAHYDROFURAN	9.376	71	4043✓	0.246	PPBV	94
29) 1,2-DICHLOROETHANE	9.625	62	10769✓	0.220	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.882	97	14404✓	0.206	PPBV	98
32) BENZENE	10.331	78	26668✓	0.213	PPBV	97
33) CARBON TETRACHLORIDE	10.489	117	12139✓	0.195	PPBV	98
34) CYCLOHEXANE	10.613	84	11571✓	0.219	PPBV	89
35) 1,2-DICHLOROPROPANE	11.162	63	10309✓	0.202	PPBV	98
36) BROMODICHLOROMETHANE	11.335	83	16022✓	0.203	PPBV	98
37) TRICHLOROETHENE	11.398	95	11174✓	0.221	PPBV	100
38) 1,4-DIOXANE	11.477	88	6591✓	0.252	PPBV	95
39) METHYLMETHACRYLATE	11.610	69	8786✓	0.222	PPBV	88
40) HEPTANE	11.713	57	8783✓	0.212	PPBV	97
41) MIBK	12.404	43	22202✓	0.220	PPBV	99
42) CIS-1,3-DICHLOROPROPENE	12.294	75	11922✓	0.181	PPBV	96
43) TRANS-1,3-DICHLOROPROPENE	12.853	75	11414✓	0.182	PPBV	97
45) 1,1,2-TRICHLOROETHANE	13.049	97	10409✓	0.229	PPBV	95
46) TOLUENE	13.380	91	30920✓	0.240	PPBV	100
47) 2-HEXANONE (MBK)	13.719	43	21117✓	0.331	PPBV	99
48) DIBROMOCHLOROMETHANE	13.841	129	12688✓	0.203	PPBV	99
49) 1,2-DIBROMOETHANE	14.127	107	15139✓	0.224	PPBV	100

Data File : C:\msdchem\1\DATA\G081011\G081005.D
Acq On : 10 Aug 2011 8:45 pm
Sample : 0.20PPBV STD
Misc : CTWS-2617
Quant Time: Aug 11 13:01:29 2011

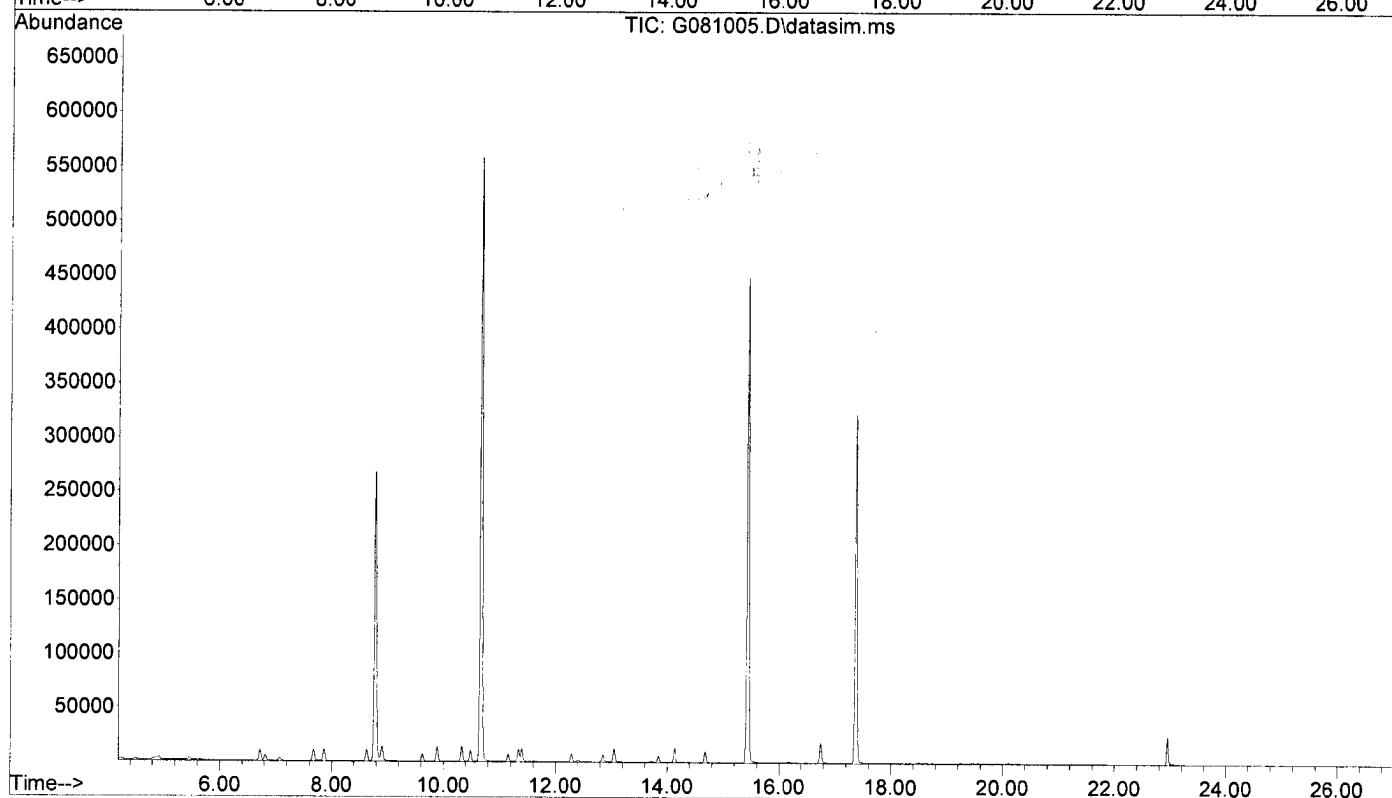
Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) TETRACHLOROETHENE	14.684	166	13136✓	0.251	PPBV	96
51) CHLOROBENZENE	15.492	112	24383✓	0.250	PPBV	96
52) ETHYLBENZENE	15.961	91	38107✓	0.234	PPBV	98
53) M/P-XYLENE	16.187	91	63063✓	0.488	PPBV	97
54) BROMOFORM	16.248	173	9854✓	0.190	PPBV	99
55) STYRENE	16.639	104	21705✓	0.247	PPBV	97
56) O-XYLENE	16.786	91	31589✓	0.245	PPBV	99
57) 1,1,2,2-TETRACHLOROETHANE	16.752	83	23190✓	0.222	PPBV	98
59) 4-ETHYLTOLUENE	18.507	105	41190✓	0.243	PPBV	98
60) 1,3,5-TRIMETHYLBENZENE	18.629	105	33891✓	0.253	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.246	105	32629✓	0.233	PPBV	97
62) 1,3-DICHLOROBENZENE	19.463	146	23131✓	0.253	PPBV	99
63) BENZYL CHLORIDE	19.437	91	16998✓	0.143	PPBV	98
64) 1,4-DICHLOROBENZENE	19.567	146	23641✓	0.257	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	21792✓	0.251	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.802	180	17208✓	0.230	PPBV	97
67) NAPHTHALENE	22.953	128	48917✓	0.248	PPBV	97
68) HEXACHLOROBUTADIENE	23.492	225	13902✓	0.237	PPBV	92

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

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

[illegible]

Data File : C:\msdchem\1\DATA\G081011\G081006.D
 Acq On : 10 Aug 2011 9:24 pm
 Sample : 0.50PPBV STD
 Misc : CTWS-2617
 Quant Time: Aug 11 13:01:32 2011

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.778	49	396953✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.672	114	1045506✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	985901✓	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	532858✓	8.34	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.25%
Target Compounds						
						Qvalue
2) PROPENE	4.476	41	17405✓	0.617	PPBV	94
3) DICHLORODIFLUOROMETHANE	4.543	85	43221✓	0.585	PPBV	100
4) CHLOROMETHANE	4.704	50	11085✓	0.385	PPBV	98
5) FREON 114	4.798	85	37493✓	0.442	PPBV	93
6) VINYL CHLORIDE	4.911	62	12933✓	0.396	PPBV	98
7) 1,3-BUTADIENE	5.046	54	9016✓	0.411	PPBV	92
8) BROMOMETHANE	5.294	94	12456✓	0.409	PPBV	99
9) CHLOROETHANE	5.461	64	6356✓	0.423	PPBV	90
10) ACROLEIN	5.894	56	4452✓	0.428	PPBV	90
11) ACETONE	6.033	43	27378✓	0.743	PPBV	91
12) TRICHLOROFLUOROMETHANE	6.155	101	31664✓	0.469	PPBV	98
13) ETHANOL	5.595	45	7405✓	0.865	PPBV	96
14) 1,1-DICHLOROETHENE	6.728	61	31467✓	0.550	PPBV	95
15) METHYLENE CHLORIDE	6.824	49	26300✓	0.580	PPBV	90
16) FREON 113	7.075	101	37682✓	0.626	PPBV	93
17) CARBON DISULFIDE	7.110	76	56894✓	0.573	PPBV	99
18) TRANS-1,2-DICHLOROETHENE	7.675	61	30361✓	0.552	PPBV	95
19) 1,1-DICHLOROETHANE	7.857	63	38553✓	0.550	PPBV	99
20) MTBE	7.979	73	53138✓	0.577	PPBV	97
21) IPA	6.277	45	23863✓	0.633	PPBV	91
22) 2-BUTANONE (MEK)	8.265	43	43359✓	0.621	PPBV	98
23) CIS-1,2-DICHLOROETHENE	8.630	61	29164✓	0.561	PPBV	93
24) VINYL ACETATE	7.996	43	58223✓	0.676	PPBV	98
25) HEXANE	8.847	41	23724✓	0.551	PPBV	99
26) ETHYL ACETATE	8.873	61	7575✓	0.587	PPBV	98
27) CHLOROFORM	8.908	83	40514✓	0.577	PPBV	99
28) TETRAHYDROFURAN	9.359	71	9977✓	0.636	PPBV	99
29) 1,2-DICHLOROETHANE	9.616	62	27087✓	0.578	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.882	97	36113✓	0.534	PPBV	99
32) BENZENE	10.330	78	65781✓	0.543	PPBV	98
33) CARBON TETRACHLORIDE	10.489	117	30475✓	0.507	PPBV	100
34) CYCLOHEXANE	10.622	84	28557✓	0.560	PPBV	91
35) 1,2-DICHLOROPROPANE	11.162	63	25251✓	0.513	PPBV	98
36) BROMODICHLOROMETHANE	11.335	83	41020✓	0.540	PPBV	99
37) TRICHLOROETHENE	11.398	95	26939✓	0.552	PPBV	99
38) 1,4-DIOXANE	11.469	88	16264✓	0.644	PPBV	92
39) METHYLMETHACRYLATE	11.602	69	22044✓	0.578	PPBV	92
40) HEPTANE	11.720	57	21552✓	0.539	PPBV	98
41) MIBK	12.389	43	53840✓	0.553	PPBV	98
42) CIS-1,3-DICHLOROPROPENE	12.294	75	31714✓	0.498	PPBV	96
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	28439✓	0.469	PPBV	98
45) 1,1,2-TRICHLOROETHANE	13.049	97	24954✓	0.550	PPBV	97
46) TOLUENE	13.380	91	76449✓	0.594	PPBV	98
47) 2-HEXANONE (MBK)	13.710	43	51256✓	0.805	PPBV	97
48) DIBROMOCHLOROMETHANE	13.841	129	34506✓	0.552	PPBV	100
49) 1,2-DIBROMOETHANE	14.127	107	37400✓	0.554	PPBV	100

Data File : C:\msdchem\1\DATA\G081011\G081006.D
Acq On : 10 Aug 2011 9:24 pm
Sample : 0.50PPBV STD
Misc : CTWS-2617
Quant Time: Aug 11 13:01:32 2011

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

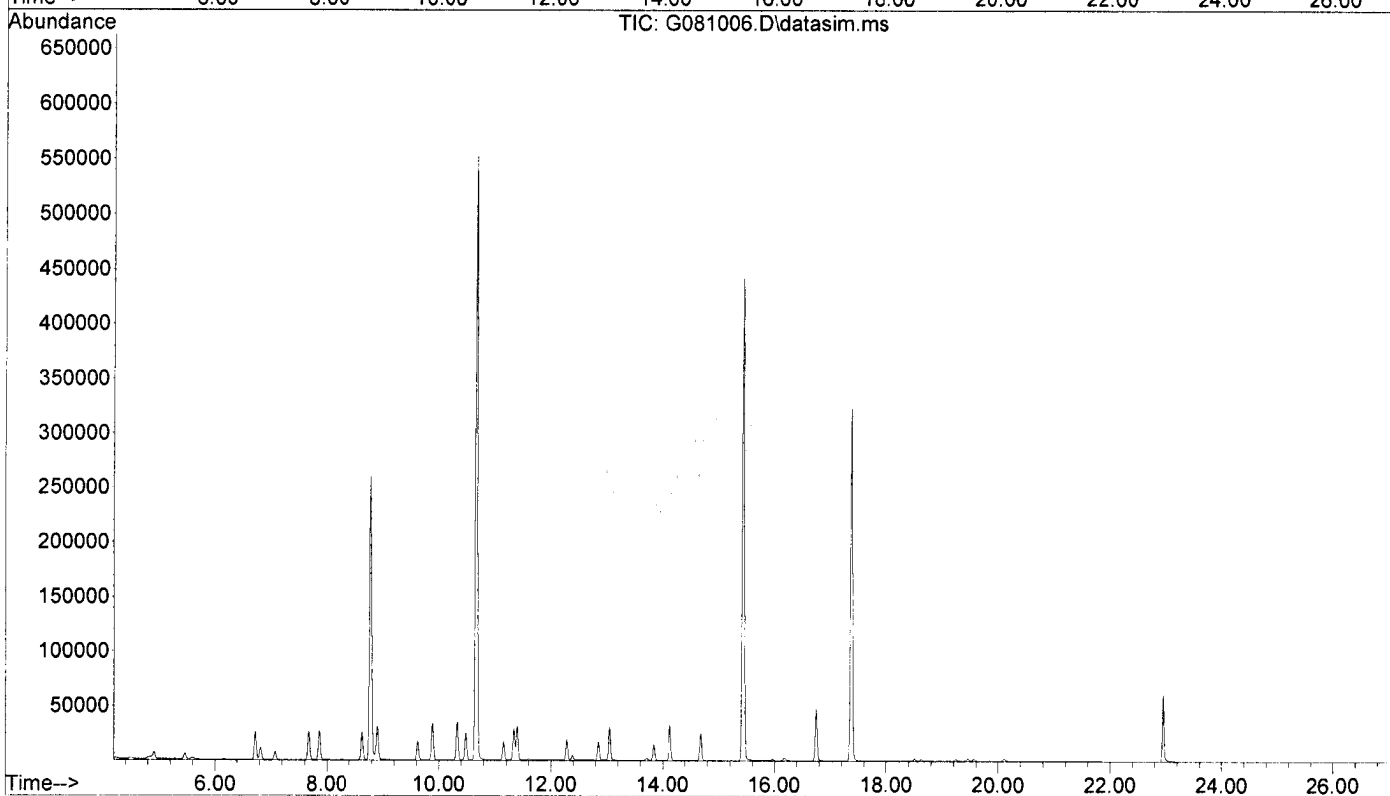
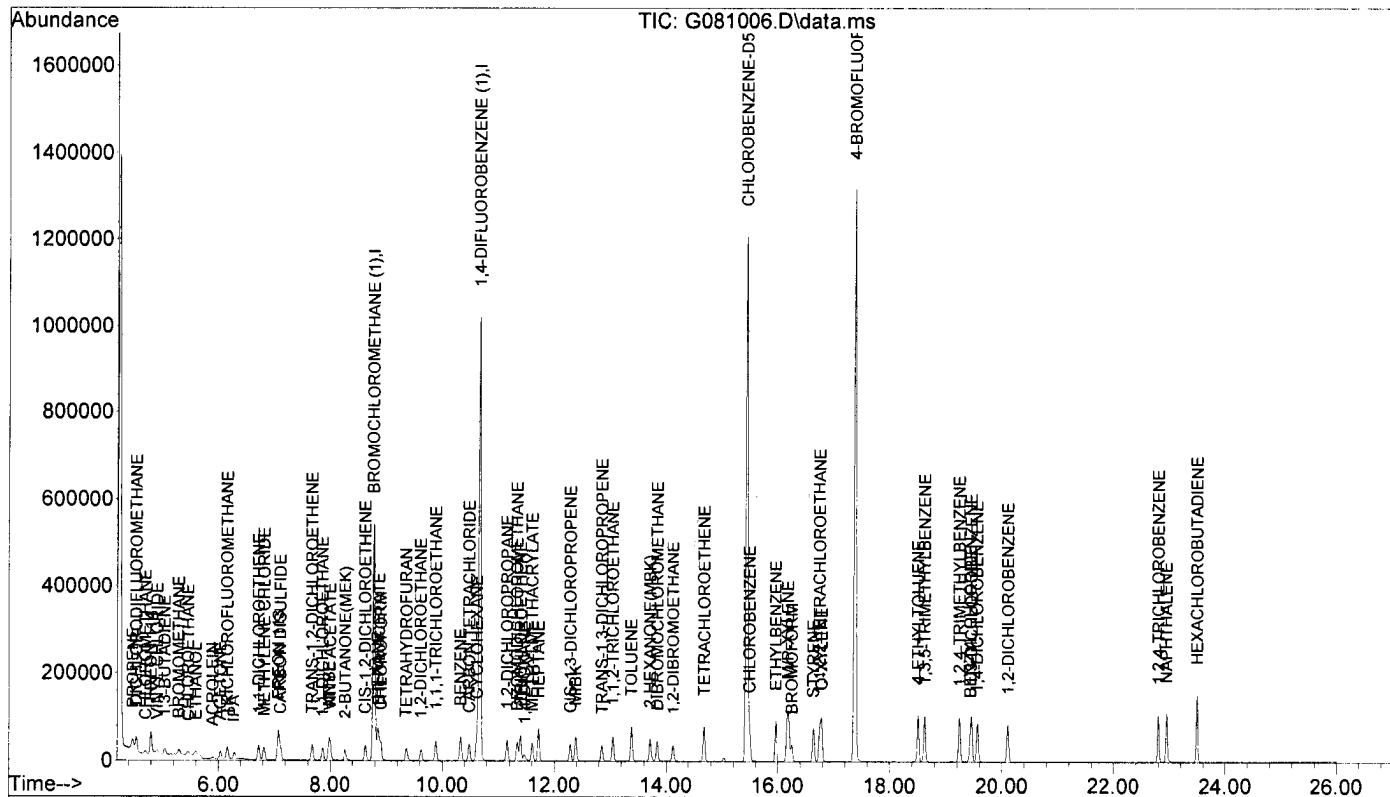
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) TETRACHLOROETHENE	14.683	166	31932✓	0.611	PPBV	95
51) CHLOROBENZENE	15.492	112	58336✓	0.599	PPBV	92
52) ETHYLBENZENE	15.961	91	95891✓	0.589	PPBV	100
53) M/P-XYLENE	16.187	91	152656✓	1.183	PPBV	98
54) BROMOFORM	16.256	173	26584✓	0.513	PPBV	100
55) STYRENE	16.639	104	54747✓	0.624	PPBV	99
56) O-XYLENE	16.786	91	76511✓	0.594	PPBV	97
57) 1,1,2,2-TETRACHLOROETHANE	16.752	83	58912✓	0.565	PPBV	98
59) 4-ETHYLTOLUENE	18.507	105	100472✓	0.594	PPBV	99
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	84245✓	0.630	PPBV	98
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	83143✓	0.593	PPBV	100
62) 1,3-DICHLOROBENZENE	19.454	146	54442✓	0.597	PPBV	98
63) BENZYL CHLORIDE	19.437	91	45494✓	0.383	PPBV	99
64) 1,4-DICHLOROBENZENE	19.558	146	56221✓	0.613	PPBV	99
65) 1,2-DICHLOROBENZENE	20.114	146	52466✓	0.606	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	40088✓	0.537	PPBV	100
67) NAPHTHALENE	22.946	128	111154✓	0.565	PPBV	99
68) HEXACHLOROBUTADIENE	23.492	225	34881✓	0.596	PPBV	97

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

Data File : C:\msdchem\1\DATA\G081011\G081006.D
Acq On : 10 Aug 2011 9:24 pm
Sample : 0.50PPBV STD
Misc : CTWS-2617
Quant Time: Aug 11 13:01:32 2011

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G081011\G081007.D
 Acq On : 10 Aug 2011 10:06 pm
 Sample : 1.0PPBV STD
 Misc : CTWS-2617
 Quant Time: Aug 11 13:01:34 2011

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.777	49	391782 ✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1020071 ✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	964127 ✓	8.00	PPBV	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1) 17.377 174 526739 ✓ 8.43 PPBV 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 105.38%

Target Compounds

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
2) PROPENE	4.469	41	32813 ✓	1.179	PPBV		97
3) DICHLORODIFLUOROMETHANE	4.543	85	75742 ✓	1.038	PPBV		100
4) CHLOROMETHANE	4.697	50	21524 ✓	0.758	PPBV		100
5) FREON 114	4.797	85	77594 ✓	0.928	PPBV		94
6) VINYL CHLORIDE	4.911	62	25753 ✓	0.799	PPBV		97
7) 1,3-BUTADIENE	5.045	54	18389 ✓	0.850	PPBV		96
8) BROMOMETHANE	5.300	94	24774 ✓	0.824	PPBV		99
9) CHLOROETHANE	5.461	64	12564 ✓	0.848	PPBV		95
10) ACROLEIN	5.894	56	8501 ✓	0.828	PPBV		90
11) ACETONE	6.025	43	48325 ✓	1.329	PPBV		93
12) TRICHLOROFLUOROMETHANE	6.155	101	62445 ✓	0.937	PPBV		99
13) ETHANOL	5.582	45	12545 ✓	1.486	PPBV		98
14) 1,1-DICHLOROETHENE	6.719	61	62816 ✓	1.113	PPBV		93
15) METHYLENE CHLORIDE	6.815	49	49686 ✓	1.110	PPBV		88
16) FREON 113	7.075	101	75034 ✓	1.263	PPBV		96
17) CARBON DISULFIDE	7.110	76	114857 ✓	1.172	PPBV		98
18) TRANS-1,2-DICHLOROETHENE	7.675	61	62287 ✓	1.148	PPBV		94
19) 1,1-DICHLOROETHANE	7.857	63	76435 ✓	1.106	PPBV		100
20) MTBE	7.961	73	106769 ✓	1.175	PPBV		98
21) IPA	6.268	45	50360 ✓	1.353	PPBV		96
22) 2-BUTANONE (MEK)	8.248	43	85792 ✓	1.244	PPBV		96
23) CIS-1,2-DICHLOROETHENE	8.630	61	57787 ✓	1.127	PPBV		94
24) VINYL ACETATE	7.996	43	120497 ✓	1.418	PPBV		98
25) HEXANE	8.847	41	47374 ✓	1.114	PPBV		98
26) ETHYL ACETATE	8.856	61	15038 ✓	1.181	PPBV		98
27) CHLOROFORM	8.899	83	82032 ✓	1.184	PPBV		99
28) TETRAHYDROFURAN	9.350	71	20322 ✓	1.312	PPBV		98
29) 1,2-DICHLOROETHANE	9.616	62	53428 ✓	1.156	PPBV		100
31) 1,1,1-TRICHLOROETHANE	9.882	97	73946 ✓	1.121	PPBV		98
32) BENZENE	10.330	78	130365 ✓	1.104	PPBV		96
33) CARBON TETRACHLORIDE	10.480	117	64521 ✓	1.101	PPBV		100
34) CYCLOHEXANE	10.621	84	55655 ✓	1.119	PPBV		92
35) 1,2-DICHLOROPROPANE	11.154	63	50758 ✓	1.056	PPBV		99
36) BROMODICHLOROMETHANE	11.335	83	83130 ✓	1.121	PPBV		99
37) TRICHLOROETHENE	11.398	95	54424 ✓	1.143	PPBV		99
38) 1,4-DIOXANE	11.445	88	31619 ✓	1.283	PPBV		95
39) METHYLMETHACRYLATE	11.594	69	45150 ✓	1.213	PPBV		91
40) HEPTANE	11.712	57	43667 ✓	1.119	PPBV		98
41) MIBK	12.381	43	108805 ✓	1.146	PPBV		97
42) CIS-1,3-DICHLOROPROPENE	12.286	75	65312 ✓	1.050	PPBV		98
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	59867 ✓	1.012	PPBV		97
45) 1,1,2-TRICHLOROETHANE	13.049	97	51193 ✓	1.154	PPBV		96
46) TOLUENE	13.380	91	149366 ✓	1.187	PPBV		100
47) 2-HEXANONE (MBK)	13.701	43	104644 ✓	1.680	PPBV		97
48) DIBROMOCHLOROMETHANE	13.840	129	72726 ✓	1.190	PPBV		98
49) 1,2-DIBROMOETHANE	14.127	107	75668 ✓	1.147	PPBV		100

Data File : C:\msdchem\1\DATA\G081011\G081007.D
Acq On : 10 Aug 2011 10:06 pm
Sample : 1.0PPBV STD
Misc : CTWS-2617
Quant Time: Aug 11 13:01:34 2011

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

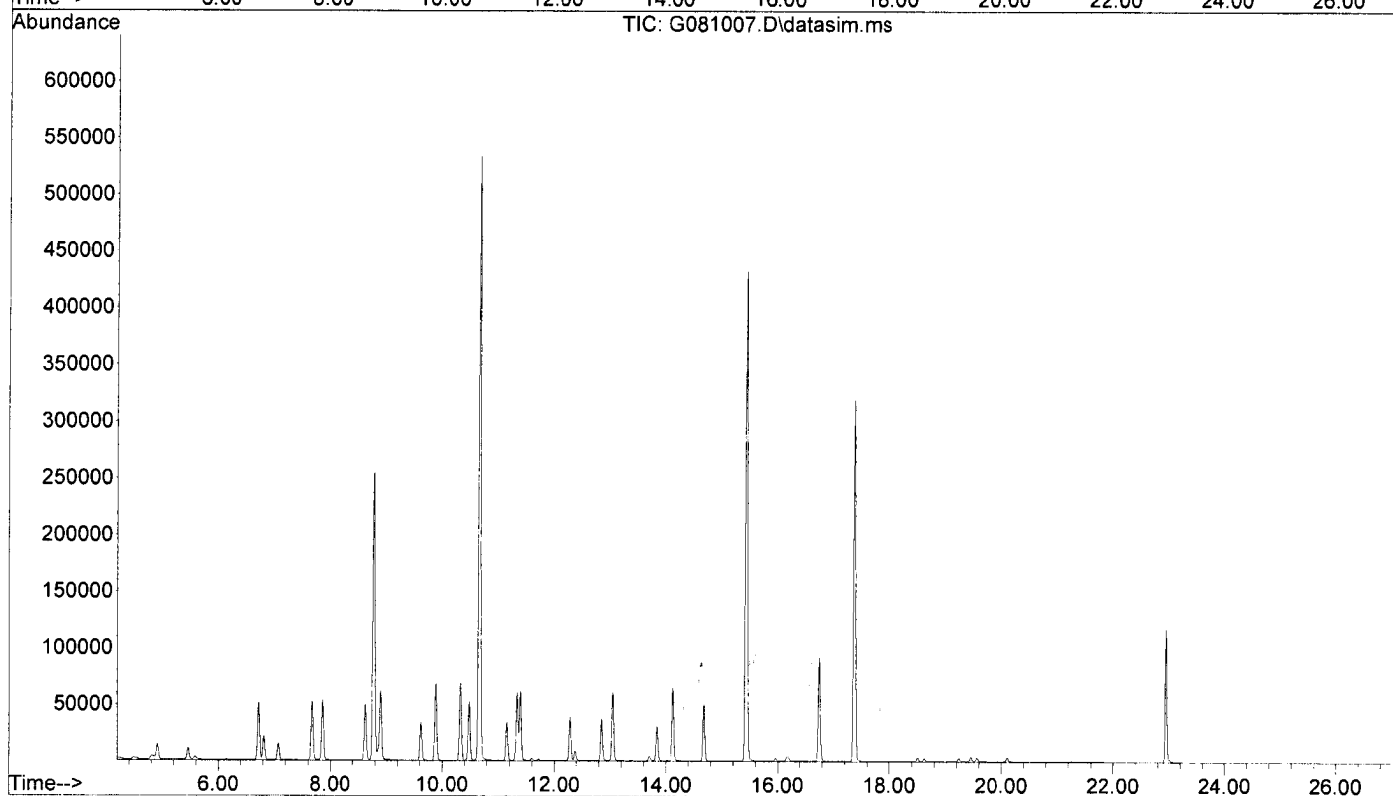
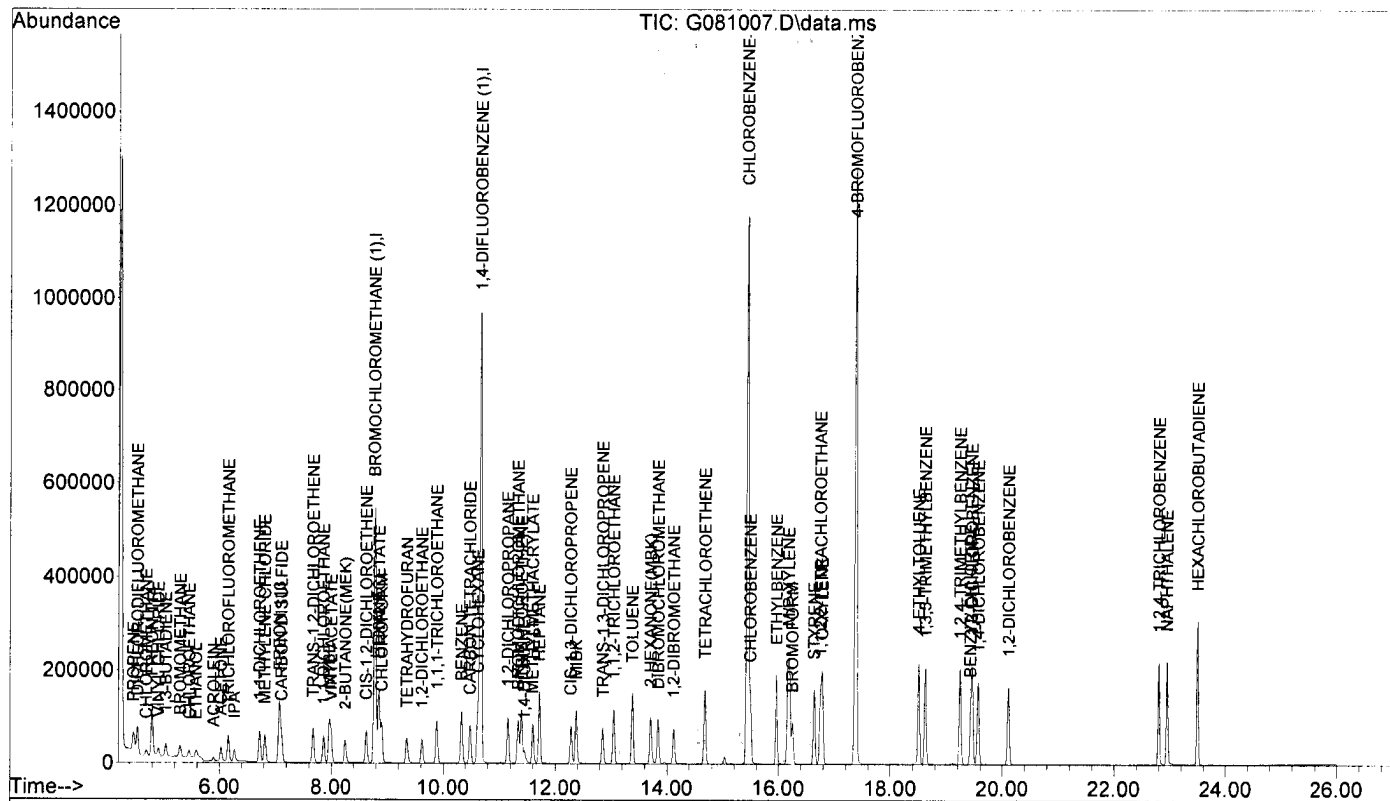
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
50) TETRACHLOROETHENE	14.683	166	64685✓	1.265	PPBV	96
51) CHLOROBENZENE	15.491	112	114454✓	1.202	PPBV	98
52) ETHYLBENZENE	15.961	91	196460✓	1.234	PPBV	100
53) M/P-XYLENE	16.187	91	313484✓	2.483	PPBV	98
54) BROMOFORM	16.247	173	59157✓	1.168	PPBV	99
55) STYRENE	16.638	104	111273✓	1.297	PPBV	99
56) O-XYLENE	16.777	91	150951✓	1.198	PPBV	98
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	113703✓	1.116	PPBV	99
59) 4-ETHYLTOLUENE	18.507	105	203627✓	1.232	PPBV	99
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	168199✓	1.285	PPBV	100
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	169648✓	1.238	PPBV	99
62) 1,3-DICHLOROBENZENE	19.454	146	111634✓	1.252	PPBV	98
63) BENZYL CHLORIDE	19.428	91	100201✓	0.862	PPBV	99
64) 1,4-DICHLOROBENZENE	19.567	146	110605✓	1.232	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	101790✓	1.202	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	80301✓	1.100	PPBV	100
67) NAPHTHALENE	22.946	128	214697✓	1.116	PPBV	99
68) HEXACHLOROBUTADIENE	23.492	225	68867✓	1.203	PPBV	96

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

Data File : C:\msdchem\1\DATA\G081011\G081007.D
Acq On : 10 Aug 2011 10:06 pm
Sample : 1.0PPBv STD
Misc : CTWS-2617
Quant Time: Aug 11 13:01:34 2011

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G081011\G081008.D
Acq On : 10 Aug 2011 10:43 pm
Sample : 1.0PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:36 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.777	49	401181	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1033325	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	930602	8.00	PPBV	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	17.377	174	498398	8.26	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.25%

Target Compounds

						Qvalue
2) PROPENE	4.469	41	39598	1.390	PPBV	97
3) DICHLORODIFLUOROMETHANE	4.543	85	97099	1.300	PPBV	99
4) CHLOROMETHANE	4.697	50	27873	0.959	PPBV	99
5) FREON 114	4.797	85	91086	1.064	PPBV	93
6) VINYL CHLORIDE	4.911	62	33453	1.013	PPBV	99
7) 1,3-BUTADIENE	5.045	54	23663	1.068	PPBV	94
8) BROMOMETHANE	5.300	94	31768	1.032	PPBV	99
9) CHLOROETHANE	5.461	64	15651	1.032	PPBV	93
10) ACROLEIN	5.894	56	9904	0.942	PPBV	92
11) ACETONE	6.025	43	40314	1.083	PPBV	90
12) TRICHLOROFLUOROMETHANE	6.155	101	82080	1.203	PPBV	99
13) ETHANOL	5.582	45	7300	0.844	PPBV	96
14) 1,1-DICHLOROETHENE	6.719	61	82681	1.430	PPBV	94
15) METHYLENE CHLORIDE	6.815	49	64030	1.397	PPBV	90
16) FREON 113	7.075	101	97761	1.607	PPBV	94
17) CARBON DISULFIDE	7.110	76	153118	1.525	PPBV	98
18) TRANS-1,2-DICHLOROETHENE	7.675	61	82535	1.486	PPBV	94
19) 1,1-DICHLOROETHANE	7.857	63	101628	1.436	PPBV	99
20) MTBE	7.961	73	100807	1.083	PPBV	96
21) IPA	6.268	45	38994	1.023	PPBV	94
22) 2-BUTANONE (MEK)	8.256	43	78503	1.112	PPBV	97
23) CIS-1,2-DICHLOROETHENE	8.630	61	76685	1.460	PPBV	93
24) VINYL ACETATE	7.996	43	132589	1.524	PPBV	98
25) HEXANE	8.847	41	61788	1.419	PPBV	97
26) ETHYL ACETATE	8.856	61	15076	1.157	PPBV	97
27) CHLOROFORM	8.899	83	106998	1.508	PPBV	100
28) TETRAHYDROFURAN	9.342	71	18223	1.149	PPBV	94
29) 1,2-DICHLOROETHANE	9.616	62	68205	1.441	PPBV	100
31) 1,1,1-TRICHLOROETHANE	9.882	97	92078	1.378	PPBV	98
32) BENZENE	10.330	78	167252	1.398	PPBV	97
33) CARBON TETRACHLORIDE	10.488	117	82069	1.382	PPBV	98
34) CYCLOHEXANE	10.622	84	71592	1.421	PPBV	91
35) 1,2-DICHLOROPROPANE	11.154	63	60541	1.244	PPBV	98
36) BROMODICHLOROMETHANE	11.335	83	99187	1.320	PPBV	100
37) TRICHLOROETHENE	11.398	95	68180	1.414	PPBV	98
38) 1,4-DIOXANE	11.445	88	27989	1.121	PPBV	96
39) METHYLMETHACRYLATE	11.602	69	42473	1.126	PPBV	93
40) HEPTANE	11.712	57	49939	1.263	PPBV	96
41) MIBK	12.381	43	85475	0.889	PPBV	95
42) CIS-1,3-DICHLOROPROPENE	12.286	75	76686	1.217	PPBV	97
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	66758	1.114	PPBV	98
45) 1,1,2-TRICHLOROETHANE	13.049	97	52583	1.228	PPBV	97
46) TOLUENE	13.380	91	170990	1.408	PPBV	99
47) 2-HEXANONE (MBK)	13.701	43	81962	1.363	PPBV	96
48) DIBROMOCHLOROMETHANE	13.840	129	74374	1.261	PPBV	99
49) 1,2-DIBROMOETHANE	14.127	107	82543	1.296	PPBV	99

Data File : C:\msdchem\1\DATA\G081011\G081008.D
Acq On : 10 Aug 2011 10:43 pm
Sample : 1.0PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:36 2011

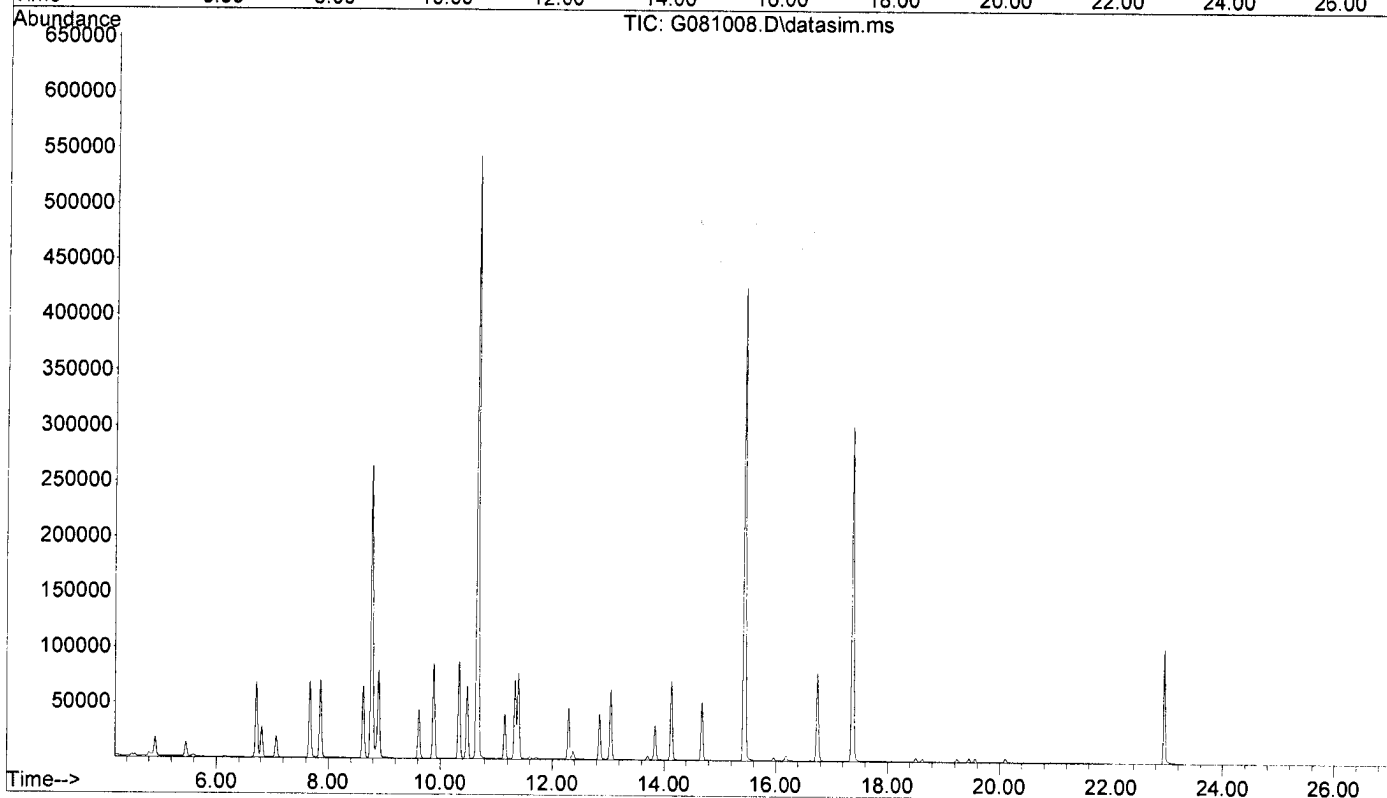
Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) TETRACHLOROETHENE	14.683	166	68724	1.392	PPBV	95
51) CHLOROBENZENE	15.491	112	115436	1.256	PPBV	98
52) ETHYLBENZENE	15.961	91	189373	1.232	PPBV	100
53) M/P-XYLENE	16.187	91	303627	2.492	PPBV	98
54) BROMOFORM	16.247	173	53886	1.102	PPBV	98
55) STYRENE	16.638	104	107258	1.295	PPBV	98
56) O-XYLENE	16.777	91	143735	1.182	PPBV	99
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	99133	1.008	PPBV	99
59) 4-ETHYLTOLUENE	18.507	105	181622	1.138	PPBV	100
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	146229	1.158	PPBV	100
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	143621	1.086	PPBV	100
62) 1,3-DICHLOROBENZENE	19.462	146	94429	1.097	PPBV	97
63) BENZYL CHLORIDE	19.428	91	83658	0.746	PPBV	100
64) 1,4-DICHLOROBENZENE	19.567	146	93037	1.074	PPBV	99
65) 1,2-DICHLOROBENZENE	20.114	146	86906	1.063	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	72992	1.036	PPBV	99
67) NAPHTHALENE	22.946	128	188794	1.017	PPBV	99
68) HEXACHLOROBUTADIENE	23.492	225	69727	1.261	PPBV	98

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

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

[illegible]

Data File : C:\msdchem\1\DATA\G081011\G081009.D
 Acq On : 10 Aug 2011 11:21 pm
 Sample : 2.0PPBV STD
 Misc : CTWS-2618
 Quant Time: Aug 11 13:01:38 2011

Vial: 23
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	398325✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1045668✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	948760✓	8.00	PPBV	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1) 17.377 174 519174✓ 8.44 PPBV 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 105.50%

Target Compounds

						Qvalue
2) PROPENE	4.469	41	60697✓	2.146	PPBV	97
3) DICHLORODIFLUOROMETHANE	4.543	85	174575✓	2.354	PPBV	99
4) CHLOROMETHANE	4.704	50	58749✓	2.036	PPBV	100
5) FREON 114	4.804	85	173687✓	2.043	PPBV	96
6) VINYL CHLORIDE	4.918	62	68370✓	2.086	PPBV	100
7) 1,3-BUTADIENE	5.052	54	48447✓	2.203	PPBV	98
8) BROMOMETHANE	5.307	94	63407✓	2.074	PPBV	99
9) CHLOROETHANE	5.461	64	31707✓	2.105	PPBV	98
10) ACROLEIN	5.903	56	20511✓	1.965	PPBV	96
11) ACETONE	6.033	43	84725✓	2.292	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.163	101	159108✓	2.348	PPBV	100
13) ETHANOL	5.608	45	17512✓	2.040	PPBV	97
14) 1,1-DICHLOROETHENE	6.728	61	132031✓	2.301	PPBV	94
15) METHYLENE CHLORIDE	6.823	49	101451✓	2.230	PPBV	89
16) FREON 113	7.084	101	153745✓	2.545	PPBV	93
17) CARBON DISULFIDE	7.119	76	244992✓	2.458	PPBV	98
18) TRANS-1,2-DICHLOROETHENE	7.675	61	131044✓	2.376	PPBV	93
19) 1,1-DICHLOROETHANE	7.866	63	161760✓	2.301	PPBV	99
20) MTBE	7.961	73	198490✓	2.148	PPBV	97
21) IPA	6.294	45	79280✓	2.095	PPBV	94
22) 2-BUTANONE (MEK)	8.256	43	148781✓	2.122	PPBV	95
23) CIS-1,2-DICHLOROETHENE	8.638	61	122929✓	2.358	PPBV	93
24) VINYL ACETATE	8.005	43	241833✓	2.799	PPBV	98
25) HEXANE	8.856	41	101190✓	2.340	PPBV	97
26) ETHYL ACETATE	8.864	61	27693✓	2.140	PPBV	96
27) CHLOROFORM	8.908	83	176012✓	2.499	PPBV	99
28) TETRAHYDROFURAN	9.350	71	33585✓	2.133	PPBV	100
29) 1,2-DICHLOROETHANE	9.624	62	112930✓	2.403	PPBV	100
31) 1,1,1-TRICHLOROETHANE	9.890	97	154930✓	2.292	PPBV	98
32) BENZENE	10.339	78	278638✓	2.301	PPBV	97
33) CARBON TETRACHLORIDE	10.488	117	138423✓	2.303	PPBV	99
34) CYCLOHEXANE	10.621	84	117367✓	2.303	PPBV	91
35) 1,2-DICHLOROPROPANE	11.162	63	102438✓	2.079	PPBV	98
36) BROMODICHLOROMETHANE	11.343	83	177167✓	2.330	PPBV	98
37) TRICHLOROETHENE	11.398	95	113316✓	2.322	PPBV	98
38) 1,4-DIOXANE	11.461	88	48316✓	1.913	PPBV	95
39) METHYLMETHACRYLATE	11.602	69	81322✓	2.130	PPBV	93
40) HEPTANE	11.720	57	86244✓	2.156	PPBV	97
41) MIBK	12.388	43	168990✓	1.736	PPBV	96
42) CIS-1,3-DICHLOROPROPENE	12.294	75	133882✓	2.100	PPBV	98
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	124205✓	2.049	PPBV	97
45) 1,1,2-TRICHLOROETHANE	13.049	97	96381✓	2.208	PPBV	95
46) TOLUENE	13.380	91	309560✓	2.500	PPBV	100
47) 2-HEXANONE (MBK)	13.719	43	159543✓	2.602	PPBV	97
48) DIBROMOCHLOROMETHANE	13.840	129	147662✓	2.455	PPBV	99
49) 1,2-DIBROMOETHANE	14.127	107	151671✓	2.336	PPBV	99

Data File : C:\msdchem\1\DATA\G081011\G081009.D
Acq On : 10 Aug 2011 11:21 pm
Sample : 2.0PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:38 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

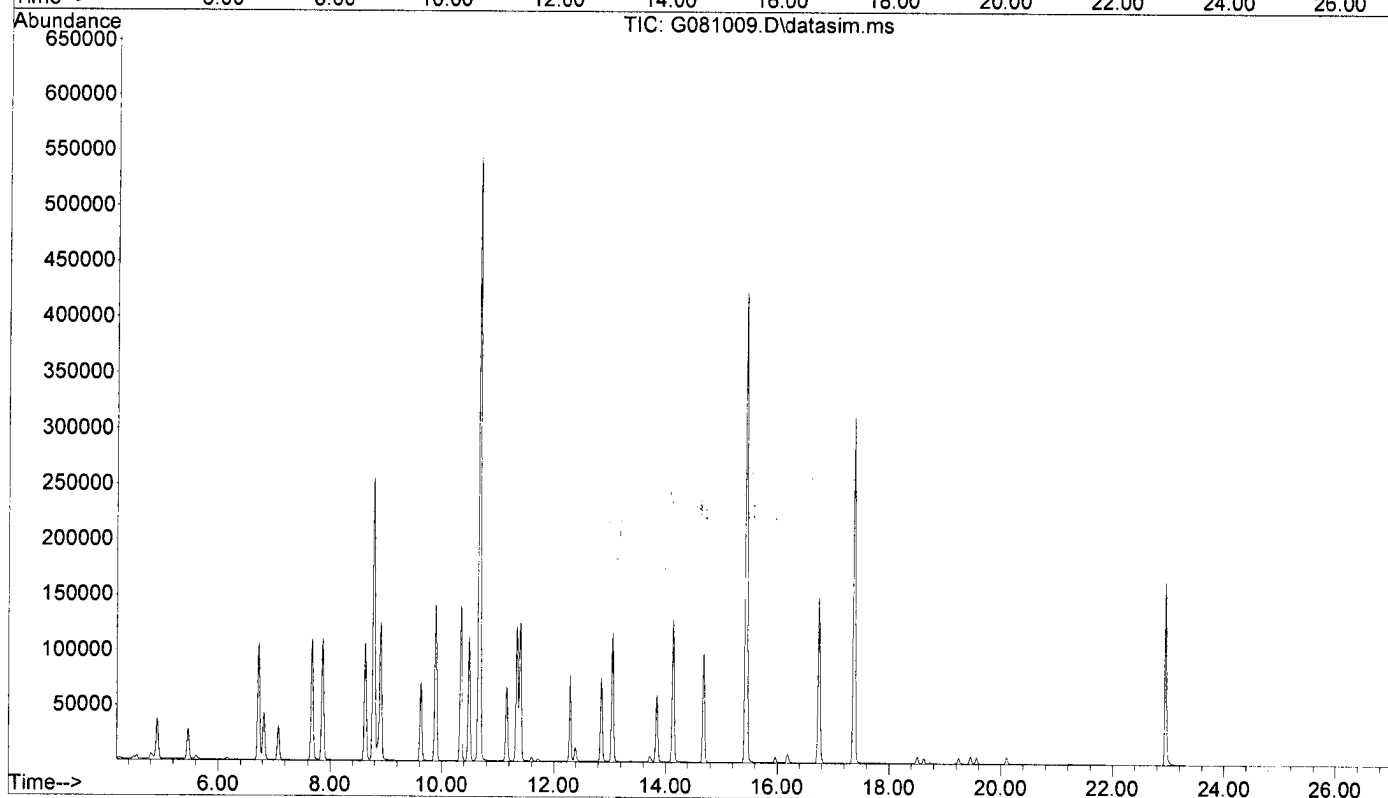
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
50) TETRACHLOROETHENE	14.683	166	125415✓	2.492	PPBV	96
51) CHLOROBENZENE	15.491	112	217183✓	2.318	PPBV	99
52) ETHYLBENZENE	15.961	91	363309✓	2.319	PPBV	99
53) M/P-XYLENE	16.195	91	563123✓	4.533	PPBV	97
54) BROMOFORM	16.256	173	115304✓	2.314	PPBV	99
55) STYRENE	16.638	104	202743✓	2.401	PPBV	97
56) O-XYLENE	16.786	91	278652✓	2.247	PPBV	99
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	187839✓	1.874	PPBV	99
59) 4-ETHYLTOLUENE	18.507	105	351691✓	2.162	PPBV	100
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	282220✓	2.191	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	271703✓	2.015	PPBV	99
62) 1,3-DICHLOROBENZENE	19.454	146	178240✓	2.031	PPBV	98
63) BENZYL CHLORIDE	19.428	91	176649✓	1.544	PPBV	99
64) 1,4-DICHLOROBENZENE	19.567	146	178551✓	2.022	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	160772✓	1.930	PPBV	99
66) 1,2,4-TRICHLOROBENZENE	22.801	180	119658✓	1.666	PPBV	99
67) NAPHTHALENE	22.946	128	310927✓	1.643	PPBV	99
68) HEXACHLOROBUTADIENE	23.492	225	111635✓	1.981	PPBV	96

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

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

TIC: G081009.D\data.ms

Approximate Retention Time (min)	Labeled Compound(s)
~5.5	PROMETHYLFLUOROMETHANE
~6.0	VINYLCHLORIDE
~6.5	BROMOMETHANE
~7.0	ETHANEDITHIOL
~7.5	ACROLEIN
~8.0	METHYLBENZENE
~8.5	CARBON DISULFIDE
~9.0	TRANS-1,2-DICHLOROETHENE
~9.5	1,1,1-TRICHLOROETHANE
~10.0	2-BUTANONE(MEK)
~10.5	CIS-1,2-DICHLOROETHENE
~11.0	CEMOCHLOROMETHANE (1), I
~11.5	TETRAHYDROFURAN
~12.0	1,2-DICHLOROETHANE
~12.5	1,1,1-TRICHLOROETHANE
~13.0	BENZENE
~13.5	CYCLOHEXANE
~14.0	1,2-DICHLOROETHANE
~14.5	1,1,1-TRICHLOROETHANE
~15.0	TRANS-1,3-DICHLOROPROPENE
~15.5	1,1,2-TRICHLOROETHANE
~16.0	TOLUENE
~16.5	2-HEXANONE(MEK)
~17.0	1,2-DIBROMOETHANE
~17.5	TETRACHLOROETHENE
~18.0	CHLOROBENZENE
~18.5	ETHYLBENZENE
~19.0	BROMOFORM/P-XYLENE
~19.5	STYRENE
~20.0	1,2-DICHLOROETHANE
~20.5	1,4-DICHLOROBENZENE
~21.0	1,2-DICHLOROETHENE
~21.5	1,4-DICHLOROBENZENE
~22.0	1,2-DICHLOROETHANE
~22.5	NAPHTHALENE
~23.0	1,4-DICHLOROBENZENE
~23.5	HEXACHLOROBUTADIENE



Data File : C:\msdchem\1\DATA\G081011\G081010.D
 Acq On : 10 Aug 2011 11:59 pm
 Sample : 5.0PPBV STD
 Misc : CTWS-2618
 Quant Time: Aug 11 13:01:40 2011

Vial: 23
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.777	49	401737✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1069544✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	963689✓	8.00	PPBV	0.00

System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	523331✓	8.38	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.75%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.469	41	130648✓	4.579	PPBV	99
3) DICHLORODIFLUOROMETHANE	4.543	85	384307✓	5.137	PPBV	100
4) CHLOROMETHANE	4.697	50	98070✓	3.370	PPBV	98
5) FREON 114	4.804	85	333517✓	3.889	PPBV	94
6) VINYL CHLORIDE	4.911	62	118637✓	3.589	PPBV	99
7) 1,3-BUTADIENE	5.045	54	84546✓	3.812	PPBV	95
8) BROMOMETHANE	5.300	94	113655✓	3.685	PPBV	98
9) CHLOROETHANE	5.454	64	55294✓	3.640	PPBV	98
10) ACROLEIN	5.886	56	45503✓	4.322	PPBV	96
11) ACETONE	6.007	43	197382✓	5.294	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.164	101	353500✓	5.173	PPBV	100
13) ETHANOL	5.568	45	32641✓	3.770	PPBV	98
14) 1,1-DICHLOROETHENE	6.728	61	291574✓	5.038	PPBV	95
15) METHYLENE CHLORIDE	6.824	49	221578✓	4.829	PPBV	90
16) FREON 113	7.075	101	335874✓	5.513	PPBV	94
17) CARBON DISULFIDE	7.119	76	538798✓	5.359	PPBV	98
18) TRANS-1,2-DICHLOROETHENE	7.675	61	284518✓	5.114	PPBV	92
19) 1,1-DICHLOROETHANE	7.866	63	353057✓	4.980	PPBV	99
20) MTBE	7.944	73	491486✓	5.274	PPBV	97
21) IPA	6.233	45	208535✓	5.464	PPBV	96
22) 2-BUTANONE (MEK)	8.230	43	370785✓	5.244	PPBV	95
23) CIS-1,2-DICHLOROETHENE	8.630	61	271659✓	5.166	PPBV	92
24) VINYL ACETATE	7.987	43	587470✓	6.743	PPBV	99
25) HEXANE	8.847	41	216561✓	4.966	PPBV	98
26) ETHYL ACETATE	8.838	61	65963✓	5.053	PPBV	94
27) CHLOROFORM	8.908	83	385806✓	5.431	PPBV	100
28) TETRAHYDROFURAN	9.317	71	90915✓	5.724	PPBV	97
29) 1,2-DICHLOROETHANE	9.616	62	247731✓	5.227	PPBV	100
31) 1,1,1-TRICHLOROETHANE	9.882	97	341003✓	4.932	PPBV	98
32) BENZENE	10.330	78	606392✓	4.896	PPBV	97
33) CARBON TETRACHLORIDE	10.488	117	325393✓	5.294	PPBV	99
34) CYCLOHEXANE	10.621	84	256592✓	4.922	PPBV	90
35) 1,2-DICHLOROPROPANE	11.154	63	227189✓	4.509	PPBV	99
36) BROMODICHLOROMETHANE	11.335	83	396878✓	5.103	PPBV	100
37) TRICHLOROETHENE	11.398	95	254026✓	5.089	PPBV	98
38) 1,4-DIOXANE	11.414	88	128695✓	4.982	PPBV	92
39) METHYLMETHACRYLATE	11.587	69	209211✓	5.359	PPBV	91
40) HEPTANE	11.712	57	196623✓	4.805	PPBV	97
41) MIBK	12.357	43	460550✓	4.626	PPBV	96
42) CIS-1,3-DICHLOROPROPENE	12.286	75	318321✓	4.881	PPBV	96
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	298046✓	4.806	PPBV	96
45) 1,1,2-TRICHLOROETHANE	13.049	97	231620✓	5.225	PPBV	96
46) TOLUENE	13.380	91	713825✓	5.675	PPBV	99
47) 2-HEXANONE (MBK)	13.684	43	442383✓	7.104	PPBV	96
48) DIBROMOCHLOROMETHANE	13.832	129	366590✓	6.001	PPBV	100
49) 1,2-DIBROMOETHANE	14.127	107	354065✓	5.370	PPBV	100

Data File : C:\msdchem\1\DATA\G081011\G081010.D
Acq On : 10 Aug 2011 11:59 pm
Sample : 5.0PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:40 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
50) TETRACHLOROETHENE	14.683	166	297358✓	5.817	PPBV	95
51) CHLOROBENZENE	15.491	112	529180✓	5.561	PPBV	98
52) ETHYLBENZENE	15.961	91	906311✓	5.696	PPBV	99
53) M/P-XYLENE	16.178	91	1440931✓	11.421	PPBV	98
54) BROMOFORM	16.247	173	316938✓	6.261	PPBV	100
55) STYRENE	16.638	104	531368✓	6.195	PPBV	97
56) O-XYLENE	16.786	91	702816✓	5.580	PPBV	98
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	496980✓	4.880	PPBV	99
59) 4-ETHYLTOLUENE	18.507	105	957288✓	5.793	PPBV	100
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	760324✓	5.813	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	763085✓	5.571	PPBV	99
62) 1,3-DICHLOROBENZENE	19.454	146	493404✓	5.535	PPBV	98
63) BENZYL CHLORIDE	19.428	91	576638✓	4.963	PPBV	100
64) 1,4-DICHLOROBENZENE	19.567	146	495156✓	5.519	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	452665✓	5.349	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	305948✓	4.194	PPBV	100
67) NAPHTHALENE	22.946	128	767114✓	3.991	PPBV	99
68) HEXACHLOROBUTADIENE	23.492	225	273753✓	4.782	PPBV	94

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

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Abundance

TIC: G081010.D\data.ms

1800000

1600000

1400000

1200000

1000000

800000

600000

400000

200000

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Time-->

6.00

8.00

10.00

12.00

14.00

16.00

18.00

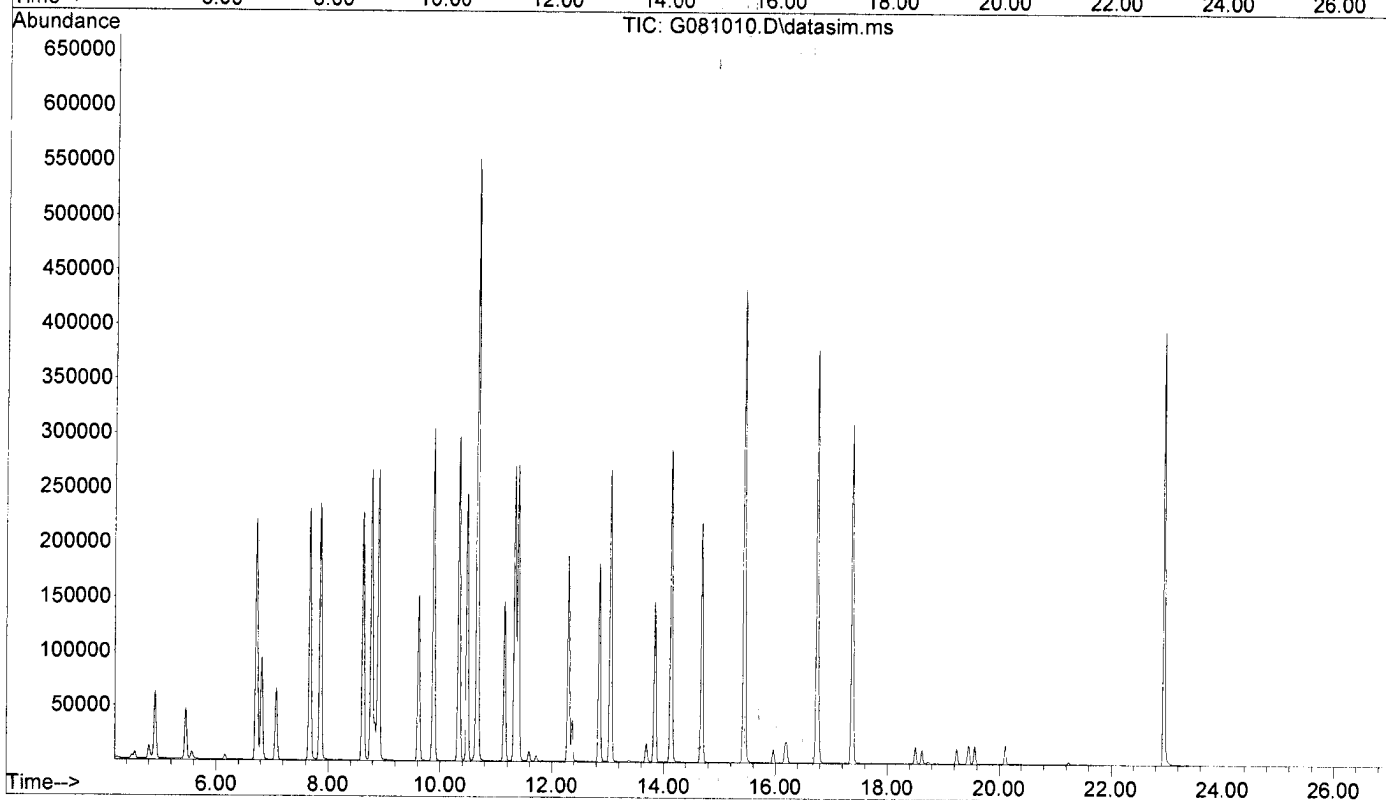
20.00

22.00

24.00

26.00

PROPENE, CHLORODIFLUOROMETHANE
CHLOROMETHANE, FREON 114
VINYL ACETYLENE
BROMOMETHANE
ETHANETHIOLE
ACROLEIN
ISX
TRICHLOROFLUOROMETHANE
METHYLENE CHLORIDE
CARBON DISULFIDE, FREON 113
TRANS-1,2-DICHLOROETHENE
1,1,1,2-TETRACHLOROETHANE
2-BUTANONE (MEK)
CIS-1,2-DICHLOROETHENE
CHLOROPYRIMIDINE, HYDROLYSATE
TETRAHYDROFURAN
1,2-DICHLOROETHANE
1,1,1-TRICHLOROETHANE
CAPROLACTONE
BENZENE
1,4-DIFLUOROBENZENE (1,1)
1,2-DICHLOROPROPANE
BROMOCHLOROMETHANE
METHYL METHYLHEPTANE
CIS-1,2-DICHLOROPROPENE
TRANS-1,3-DICHLOROPROPENE
1,1,2-TRICHLOROETHANE
TOLUENE
2-HEXANONE (MBK)
1,2-DIBROMOETHANE
TETRACHLOROETHENE
CHLOROBENZENE
CHLOROBENZENE-D5 (1,1)
BROMOFORM
ETHYLENE
STYRENE
TRANS-1,2-DICHLOROETHANE
4-BROMOFLUOROBENZENE
1,3,5-TRIMETHYLBENZENE
1,2,4-TRIMETHYLBENZENE
BENZYL CHLOROBENZENE
1,2-DICHLOROBENZENE
1,2-DICHLOROBENZENE
NAPHTHYLENE
1,2-NAPHTHYLENE
HEXACHLOROBUTADIENE



Data File : C:\msdchem\1\DATA\G081011\G081011.D
 Acq On : 11 Aug 2011 12:38 am
 Sample : 10PPBV STD
 Misc : CTWS-2618
 Quant Time: Aug 11 13:01:42 2011

Vial: 23
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.778	49	391841✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.672	114	1049031✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	972009✓	8.00	PPBV	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	17.377	174	526023✓	8.35	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.38%

Target Compounds

						Qvalue
2) PROPENE	4.476	41	254153✓	9.133	PPBV	98
3) DICHLORODIFLUOROMETHANE	4.543	85	757549✓	10.382	PPBV	100
4) CHLOROMETHANE	4.704	50	193722✓	6.825	PPBV	98
5) FREON 114	4.804	85	654671✓	7.827	PPBV	94
6) VINYL CHLORIDE	4.918	62	228033✓	7.072	PPBV	98
7) 1,3-BUTADIENE	5.046	54	163406✓	7.553	PPBV	95
8) BROMOMETHANE	5.300	94	222582✓	7.400	PPBV	100
9) CHLOROETHANE	5.461	64	108038✓	7.291	PPBV	98
10) ACROLEIN	5.877	56	73946✓	7.201	PPBV	97
11) ACETONE	5.999	43	322093✓	8.857	PPBV	92
12) TRICHLOROFLUOROMETHANE	6.155	101	565450✓	8.484	PPBV	99
13) ETHANOL	5.562	45	62621✓	7.415	PPBV	98
14) 1,1-DICHLOROETHENE	6.728	61	551175✓	9.763	PPBV	94
15) METHYLENE CHLORIDE	6.815	49	412859✓	9.225	PPBV	89
16) FREON 113	7.076	101	653656✓	11.000	PPBV	93
17) CARBON DISULFIDE	7.110	76	1038888✓	10.595	PPBV	98
18) TRANS-1,2-DICHLOROETHENE	7.675	61	549625✓	10.129	PPBV	91
19) 1,1-DICHLOROETHANE	7.857	63	671312✓	9.709	PPBV	99
20) MTBE	7.935	73	954764✓	10.504	PPBV	97
21) IPA	6.224	45	354070✓	9.511	PPBV	96
22) 2-BUTANONE (MEK)	8.222	43	744853✓	10.800	PPBV	94
23) CIS-1,2-DICHLOROETHENE	8.630	61	513217✓	10.005	PPBV	92
24) VINYL ACETATE	7.987	43	1118044✓	13.157	PPBV	99
25) HEXANE	8.847	41	401158✓	9.431	PPBV	96
26) ETHYL ACETATE	8.838	61	128780✓	10.115	PPBV	93
27) CHLOROFORM	8.908	83	735906✓	10.621	PPBV	100
28) TETRAHYDROFURAN	9.309	71	179197✓	11.567	PPBV	98
29) 1,2-DICHLOROETHANE	9.616	62	484582✓	10.483	PPBV	100
31) 1,1,1-TRICHLOROETHANE	9.882	97	662435✓	9.769	PPBV	98
32) BENZENE	10.330	78	1165823✓	9.597	PPBV	97
33) CARBON TETRACHLORIDE	10.489	117	648412✓	10.755	PPBV	100
34) CYCLOHEXANE	10.622	84	500376✓	9.785	PPBV	90
35) 1,2-DICHLOROPROPANE	11.154	63	434466✓	8.791	PPBV	98
36) BROMODICHLOROMETHANE	11.335	83	775515✓	10.166	PPBV	100
37) TRICHLOROETHENE	11.398	95	480519✓	9.815	PPBV	97
38) 1,4-DIOXANE	11.406	88	248717✓	9.816	PPBV	91
39) METHYLMETHACRYLATE	11.587	69	410270✓	10.714	PPBV	90
40) HEPTANE	11.720	57	372187✓	9.273	PPBV	96
41) MIBK	12.349	43	907887✓	9.298	PPBV	94
42) CIS-1,3-DICHLOROPROPENE	12.286	75	621867✓	9.723	PPBV	95
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	605559✓	9.956	PPBV	96
45) 1,1,2-TRICHLOROETHANE	13.049	97	479284✓	10.719	PPBV	96
46) TOLUENE	13.380	91	1370731✓	10.804	PPBV	100
47) 2-HEXANONE (MBK)	13.684	43	850151✓	13.536	PPBV	95
48) DIBROMOCHLOROMETHANE	13.841	129	716431✓	11.627	PPBV	100
49) 1,2-DIBROMOETHANE	14.127	107	684387✓	10.291	PPBV	100

Data File : C:\msdchem\1\DATA\G081011\G081011.D
Acq On : 11 Aug 2011 12:38 am
Sample : 10PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:42 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

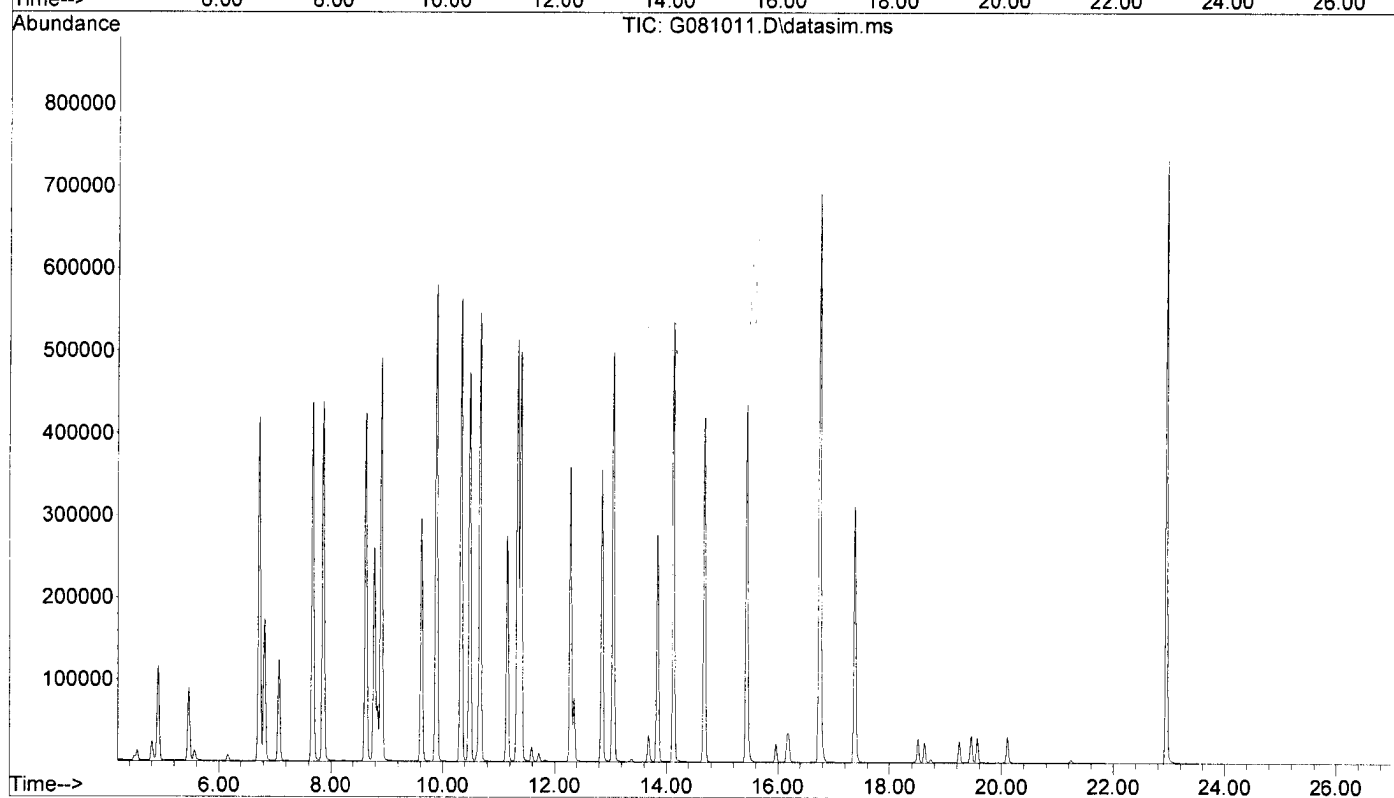
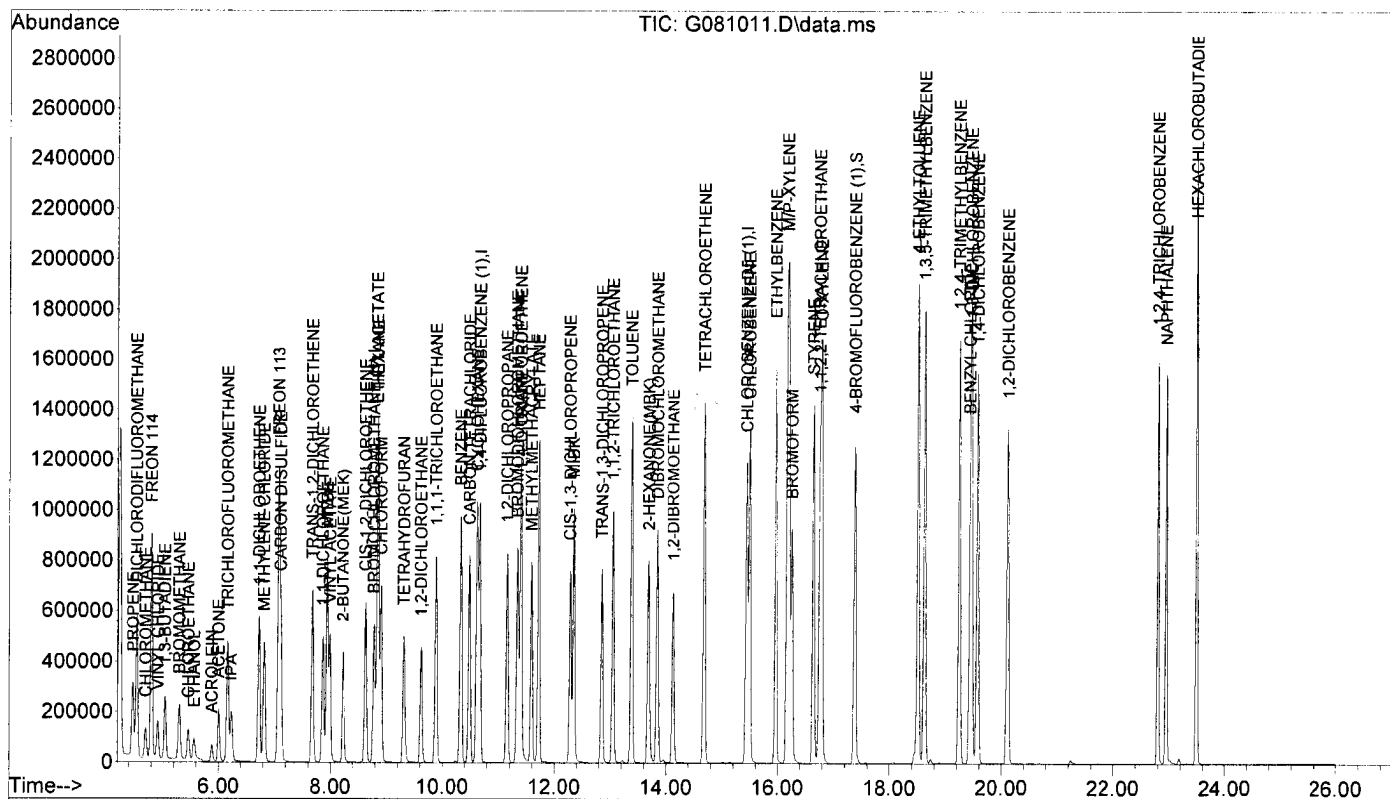
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
50) TETRACHLOROETHENE	14.683	166	582611✓	11.299	PPBV	96
51) CHLOROBENZENE	15.492	112	1025316✓	10.683	PPBV	96
52) ETHYLBENZENE	15.961	91	1741691✓	10.852	PPBV	99
53) M/P-XYLENE	16.187	91	2755989✓	21.657	PPBV	98
54) BROMOFORM	16.256	173	651575✓	12.761	PPBV	100
55) STYRENE	16.639	104	1042389✓	12.049	PPBV	98
56) O-XYLENE	16.786	91	1353880✓	10.658	PPBV	98
57) 1,1,2,2-TETRACHLOROETHANE	16.752	83	957544✓	9.323	PPBV	100
59) 4-ETHYLTOLUENE	18.507	105	1899537✓	11.397	PPBV	99
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	1523040✓	11.544	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	1477155✓	10.691	PPBV	99
62) 1,3-DICHLOROBENZENE	19.463	146	968966✓	10.777	PPBV	98
63) BENZYL CHLORIDE	19.428	91	1194554✓	10.193	PPBV	99
64) 1,4-DICHLOROBENZENE	19.567	146	977439✓	10.802	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	869792✓	10.191	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	601954✓	8.182	PPBV	100
67) NAPHTHALENE	22.946	128	1448041✓	7.469	PPBV	100
68) HEXACHLOROBUTADIENE	23.492	225	556147✓	9.633	PPBV	93

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

Data File : C:\msdchem\1\DATA\G081011\G081011.D
Acq On : 11 Aug 2011 12:38 am
Sample : 10PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:42 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G081011\G081012.D
 Acq On : 11 Aug 2011 1:19 am
 Sample : 20PPBV STD
 Misc : CTWS-2618
 Quant Time: Aug 11 13:01:44 2011

Vial: 23
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	396857 ✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.672	114	1059338 ✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	959947 ✓	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	512372 ✓	8.23	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.88%
Target Compounds						
						Qvalue
2) PROPENE	4.476	41	481660 ✓	17.089	PPBV	98
3) DICHLORODIFLUOROMETHANE	4.543	85	1354081 ✓	18.323	PPBV	99
4) CHLOROMETHANE	4.704	50	379560 ✓	13.203	PPBV	99
5) FREON 114	4.804	85	1244236 ✓	14.688	PPBV	93
6) VINYL CHLORIDE	4.918	62	440178 ✓	13.479	PPBV	98
7) 1,3-BUTADIENE	5.045	54	317850 ✓	14.507	PPBV	96
8) BROMOMETHANE	5.300	94	426069 ✓	13.985	PPBV	99
9) CHLOROETHANE	5.461	64	210704 ✓	14.040	PPBV	99
10) ACROLEIN	5.877	56	143736 ✓	13.821	PPBV	97
11) ACETONE	5.990	43	633472 ✓	17.200	PPBV	91
12) TRICHLOROFLUOROMETHANE	6.155	101	1059023 ✓	15.689	PPBV	99
13) ETHANOL	5.555	45	134221 ✓	15.691	PPBV	98
14) 1,1-DICHLOROETHENE	6.728	61	1070750 ✓	18.727	PPBV	93
15) METHYLENE CHLORIDE	6.815	49	782395 ✓	17.261	PPBV	86
16) FREON 113	7.075	101	1267732 ✓	21.065	PPBV	91
17) CARBON DISULFIDE	7.110	76	2016656 ✓	20.306	PPBV	98
18) TRANS-1,2-DICHLOROETHENE	7.675	61	1058278 ✓	19.256	PPBV	90
19) 1,1-DICHLOROETHANE	7.866	63	1290563 ✓	18.428	PPBV	98
20) MTBE	7.926	73	1888534 ✓	20.514	PPBV	96
21) IPA	6.216	45	712227 ✓	18.891	PPBV	96
22) 2-BUTANONE (MEK)	8.222	43	1417395 ✓	20.292	PPBV	93
23) CIS-1,2-DICHLOROETHENE	8.630	61	995368 ✓	19.160	PPBV	90
24) VINYL ACETATE	7.987	43	1822390 ✓	21.174	PPBV	97
25) HEXANE	8.847	41	722191 ✓	16.764	PPBV	96
26) ETHYL ACETATE	8.830	61	242227 ✓	18.785	PPBV	91
27) CHLOROFORM	8.908	83	1388341 ✓	19.785	PPBV	99
28) TETRAHYDROFURAN	9.309	71	348951 ✓	22.239	PPBV	98
29) 1,2-DICHLOROETHANE	9.624	62	917644 ✓	19.600	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.882	97	1309393 ✓	19.121	PPBV	98
32) BENZENE	10.330	78	2209604 ✓	18.011	PPBV	97
33) CARBON TETRACHLORIDE	10.488	117	1275480 ✓	20.950	PPBV	100
34) CYCLOHEXANE	10.622	84	948746 ✓	18.373	PPBV	87
35) 1,2-DICHLOROPROPANE	11.154	63	805075 ✓	16.131	PPBV	98
36) BROMODICHLOROMETHANE	11.343	83	1504276 ✓	19.528	PPBV	100
37) TRICHLOROETHENE	11.398	95	921480 ✓	18.638	PPBV	97
38) 1,4-DIOXANE	11.390	88	499607 ✓	19.526	PPBV	89
39) METHYLMETHACRYLATE	11.587	69	790972 ✓	20.454	PPBV	87
40) HEPTANE	11.720	57	682001 ✓	16.827	PPBV	93
41) MIBK	12.349	43	1672445 ✓	16.961	PPBV	93
42) CIS-1,3-DICHLOROPROPENE	12.294	75	1203804 ✓	18.638	PPBV	94
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	1177891 ✓	19.178	PPBV	94
45) 1,1,2-TRICHLOROETHANE	13.049	97	865097 ✓	19.590	PPBV	96
46) TOLUENE	13.380	91	2546859 ✓	20.326	PPBV	99
47) 2-HEXANONE (MBK)	13.675	43	1585556 ✓	25.562	PPBV	94
48) DIBROMOCHLOROMETHANE	13.840	129	1371908 ✓	22.544	PPBV	99
49) 1,2-DIBROMOETHANE	14.127	107	1300054 ✓	19.793	PPBV	100

Data File : C:\msdchem\1\DATA\G081011\G081012.D
Acq On : 11 Aug 2011 1:19 am
Sample : 20PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:44 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

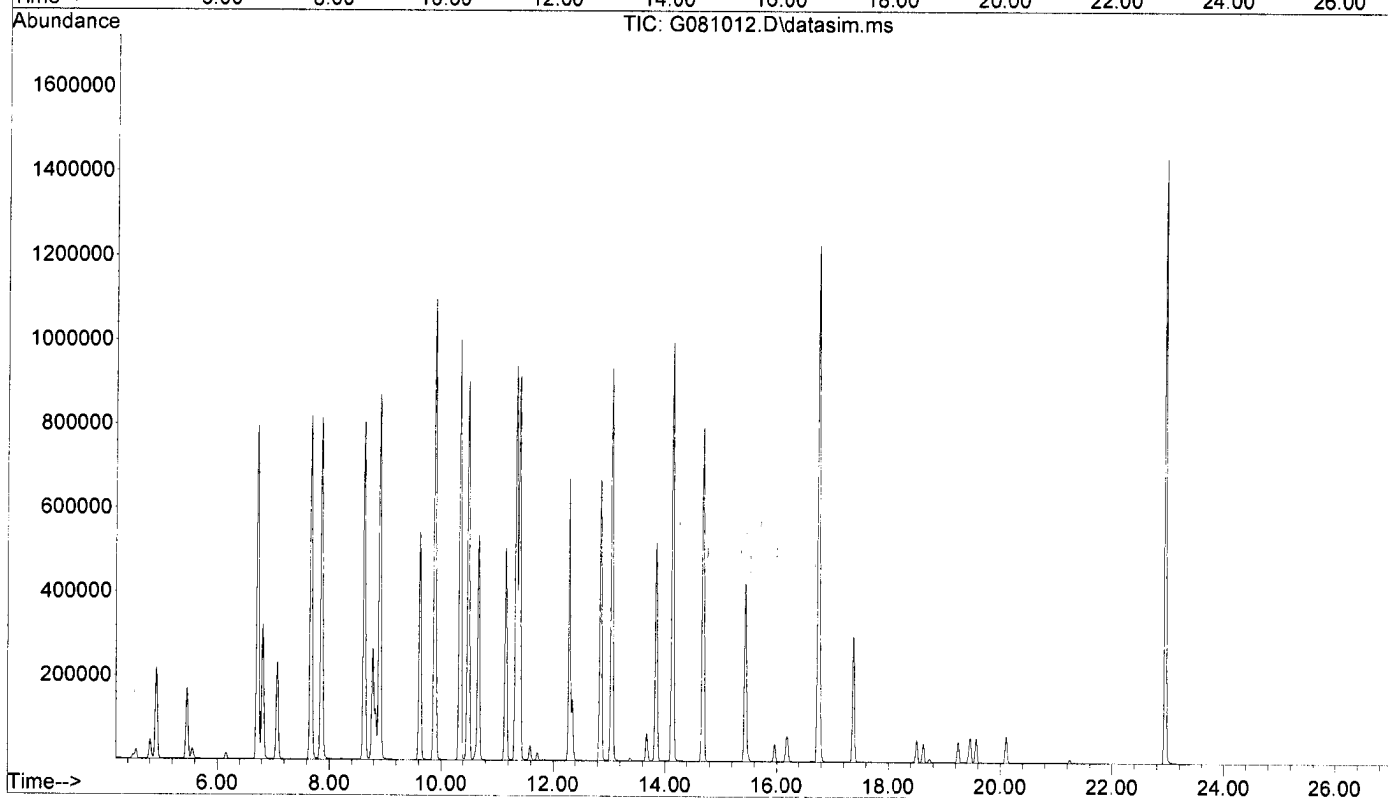
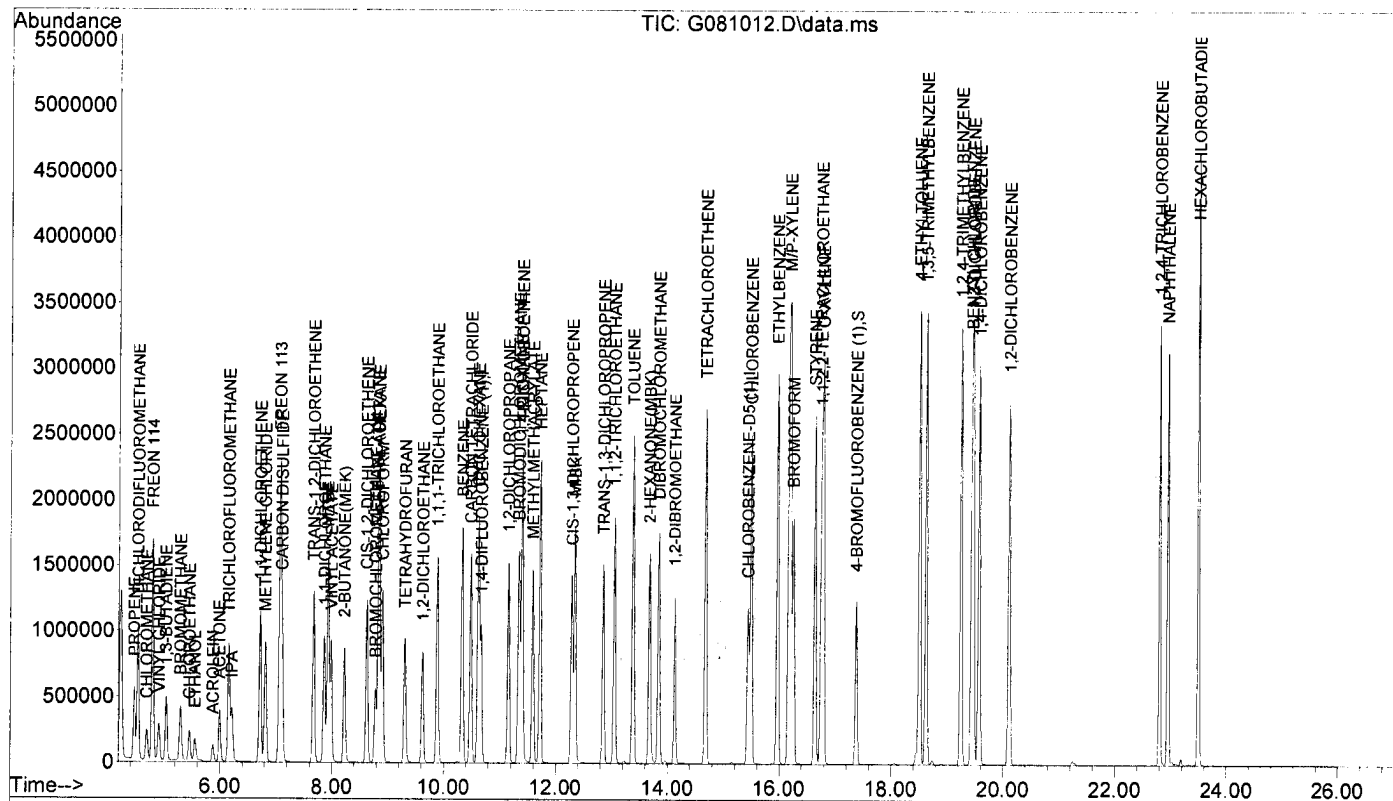
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
50) TETRACHLOROETHENE	14.683	166	1115275 ✓	21.901	PPBV	96
51) CHLOROBENZENE	15.491	112	1946483 ✓	20.535	PPBV	97
52) ETHYLBENZENE	15.961	91	3210157 ✓	20.253	PPBV	98
53) M/P-XYLENE	16.195	91	5025207 ✓	39.984	PPBV	97
54) BROMOFORM	16.256	173	1291843 ✓	25.619	PPBV	99
55) STYRENE	16.638	104	1982095 ✓	23.199	PPBV	99
56) O-XYLENE	16.786	91	2524645 ✓	20.124	PPBV	98
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	1769069 ✓	17.440	PPBV	99
59) 4-ETHYLTOLUENE	18.507	105	3493876 ✓	21.226	PPBV	98
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	2830502 ✓	21.723	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	2862543 ✓	20.978	PPBV	98
62) 1,3-DICHLOROBENZENE	19.463	146	1814122 ✓	20.430	PPBV	98
63) BENZYL CHLORIDE	19.436	91	2449467 ✓	21.163	PPBV	97
64) 1,4-DICHLOROBENZENE	19.567	146	1885894 ✓	21.104	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	1770998 ✓	21.010	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	1286992 ✓	17.713	PPBV	99
67) NAPHTHALENE	22.946	128	2997617 ✓	15.656	PPBV	100
68) HEXACHLOROBUTADIENE	23.492	225	1134630 ✓	19.899	PPBV	89

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

Data File : C:\msdchem\1\DATA\G081011\G081012.D
Acq On : 11 Aug 2011 1:19 am
Sample : 20PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:44 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G081011\G081013.D
 Acq On : 11 Aug 2011 2:04 am
 Sample : 40PPBV STD
 Misc : CTWS-2618
 Quant Time: Aug 11 13:01:46 2011

Vial: 23
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	394379✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1058935✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	955746✓	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	523291✓	8.45	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	105.62%
Target Compounds						
2) PROPENE	4.476	41	871395✓	31.111	PPBV	Qvalue 98
3) DICHLORODIFLUOROMETHANE	4.543	85	2127476✓	28.969	PPBV	99
4) CHLOROMETHANE	4.704	50	723899✓	25.338	PPBV	99
5) FREON 114	4.804	85	2173649✓	25.820	PPBV	93
6) VINYL CHLORIDE	4.918	62	848342✓	26.141	PPBV	99
7) 1,3-BUTADIENE	5.045	54	606974✓	27.877	PPBV	95
8) BROMOMETHANE	5.300	94	790545✓	26.112	PPBV	99
9) CHLOROETHANE	5.461	64	434143✓	29.111	PPBV	99
10) ACROLEIN	5.877	56	347754✓	33.649	PPBV	99
11) ACETONE	5.990	43	1398535✓	38.211	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.164	101	2336206✓	34.828	PPBV	100
13) ETHANOL	5.555	45	296299✓	34.857	PPBV	97
14) 1,1-DICHLOROETHENE	6.728	61	2014647✓	35.457	PPBV	91
15) METHYLENE CHLORIDE	6.824	49	1434342✓	31.842	PPBV	83
16) FREON 113	7.075	101	2276562✓	38.066	PPBV	88
17) CARBON DISULFIDE	7.119	76	3728700✓	37.782	PPBV	98
18) TRANS-1,2-DICHLOROETHENE	7.675	61	1965401✓	35.986	PPBV	88
19) 1,1-DICHLOROETHANE	7.866	63	2388514✓	34.320	PPBV	98
20) MTBE	7.926	73	3545374✓	38.754	PPBV	96
21) IPA	6.207	45	1576940✓	42.088	PPBV	99
22) 2-BUTANONE (MEK)	8.213	43	2641412✓	38.053	PPBV	90
23) CIS-1,2-DICHLOROETHENE	8.630	61	1800565✓	34.877	PPBV	88
24) VINYL ACETATE	7.987	43	3310451✓	38.705	PPBV	95
25) HEXANE	8.856	41	1241413✓	28.998	PPBV	96
26) ETHYL ACETATE	8.830	61	415537✓	32.428	PPBV	90
27) CHLOROFORM	8.908	83	2543399✓	36.473	PPBV	100
28) TETRAHYDROFURAN	9.301	71	678120✓	43.489	PPBV	98
29) 1,2-DICHLOROETHANE	9.624	62	1712839✓	36.814	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.882	97	2452182✓	35.823	PPBV	97
32) BENZENE	10.339	78	3988594✓	32.525	PPBV	97
33) CARBON TETRACHLORIDE	10.488	117	2375847✓	39.038	PPBV	99
34) CYCLOHEXANE	10.622	84	1702913✓	32.990	PPBV	85
35) 1,2-DICHLOROPROPANE	11.162	63	1435466✓	28.773	PPBV	97
36) BROMODICHLOROMETHANE	11.343	83	2676205✓	34.754	PPBV	100
37) TRICHLOROETHENE	11.398	95	1566504✓	31.696	PPBV	95
38) 1,4-DIOXANE	11.382	88	805739✓	31.502	PPBV	87
39) METHYLMETHACRYLATE	11.587	69	1439657✓	37.243	PPBV	85
40) HEPTANE	11.720	57	1115454✓	27.532	PPBV	90
41) MIBK	12.341	43	2843192✓	28.845	PPBV	90
42) CIS-1,3-DICHLOROPROPENE	12.294	75	2191903✓	33.949	PPBV	92
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	2176005✓	35.442	PPBV	93
45) 1,1,2-TRICHLOROETHANE	13.057	97	1662717✓	37.817	PPBV	95
46) TOLUENE	13.380	91	4430574✓	35.515	PPBV	99
47) 2-HEXANONE (MBK)	13.675	43	2695433✓	43.647	PPBV	92
48) DIBROMOCHLOROMETHANE	13.840	129	2441059✓	40.289	PPBV	98
49) 1,2-DIBROMOETHANE	14.136	107	2310424✓	35.331	PPBV	99

Data File : C:\msdchem\1\DATA\G081011\G081013.D
Acq On : 11 Aug 2011 2:04 am
Sample : 40PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:46 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

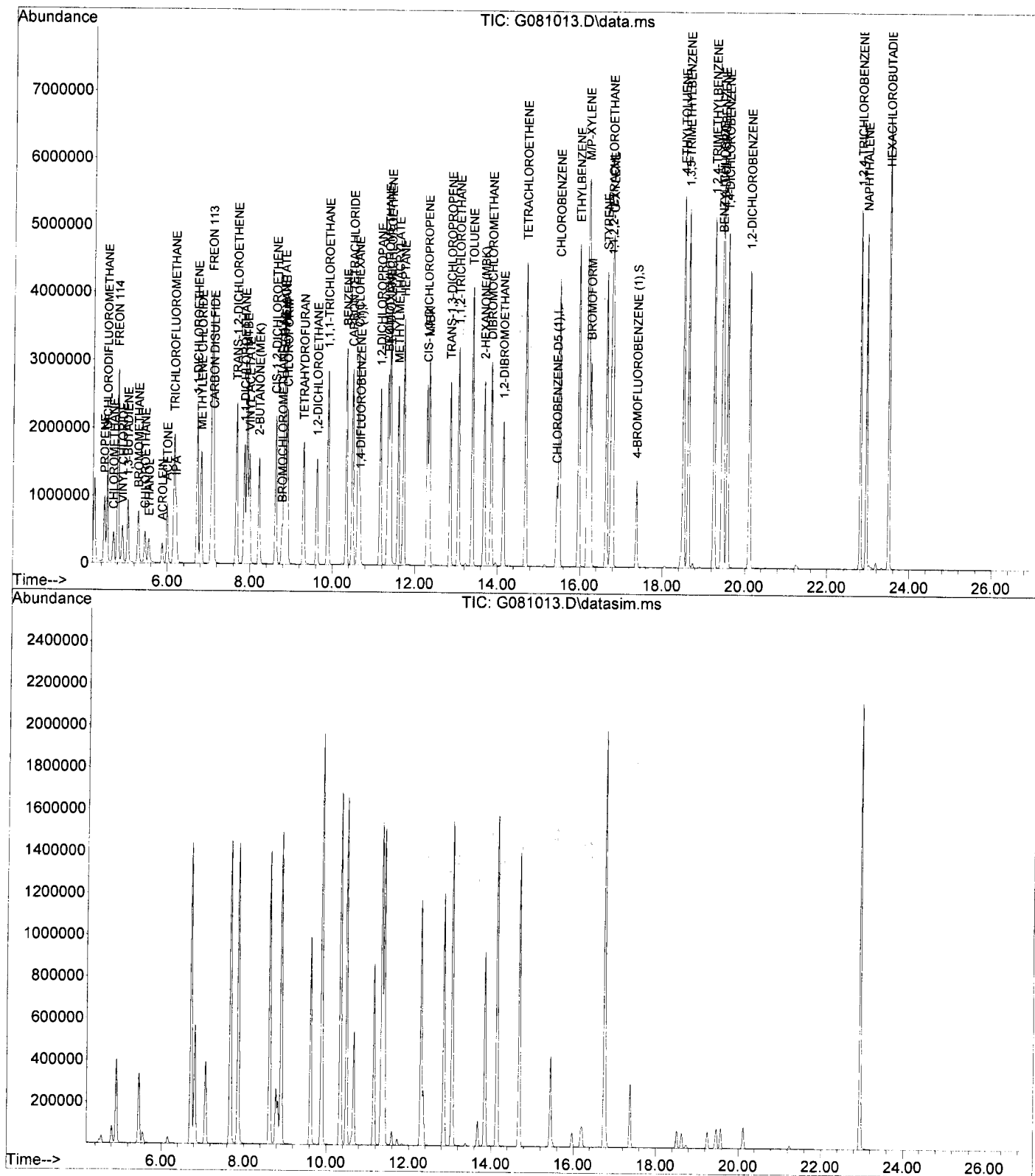
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
50) TETRACHLOROETHENE	14.683	166	1961676 ✓	38.692	PPBV	96
51) CHLOROBENZENE	15.491	112	3468452 ✓	36.753	PPBV	96
52) ETHYLBENZENE	15.969	91	5499602 ✓	34.850	PPBV	97
53) M/P-XYLENE	16.204	91	8208422 ✓	65.599	PPBV	96
54) BROMOFORM	16.265	173	2287298 ✓	45.559	PPBV	99
55) STYRENE	16.647	104	3408685 ✓	40.072	PPBV	98
56) O-XYLENE	16.795	91	4209612 ✓	33.702	PPBV	98
57) 1,1,2,2-TETRACHLOROETHANE	16.760	83	2886632 ✓	28.582	PPBV	99
59) 4-ETHYLTOLUENE	18.515	105	5845419 ✓	35.668	PPBV	97
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	4735714 ✓	36.505	PPBV	99
61) 1,2,4-TRIMETHYLBENZENE	19.254	105	4852086 ✓	35.715	PPBV	99
62) 1,3-DICHLOROBENZENE	19.471	146	3029880 ✓	34.272	PPBV	98
63) BENZYL CHLORIDE	19.436	91	4197789 ✓	36.428	PPBV	96
64) 1,4-DICHLOROBENZENE	19.575	146	3257530 ✓	36.613	PPBV	99
65) 1,2-DICHLOROBENZENE	20.114	146	3000012 ✓	35.746	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	2214156 ✓	30.608	PPBV	98
67) NAPHTHALENE	22.953	128	4961020 ✓	26.025	PPBV	98
68) HEXACHLOROBUTADIENE	23.492	225	1869682 ✓	32.935	PPBV	86

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

Data File : C:\msdchem\1\DATA\G081011\G081013.D
Acq On : 11 Aug 2011 2:04 am
Sample : 40PPBV STD
Misc : CTWS-2618
Quant Time: Aug 11 13:01:46 2011

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G081011\G081014.D
Acq On : 11 Aug 2011 2:45 am
Sample : 91PPBV STD
Misc : CTWS-2581
Quant Time: Aug 11 22:20:18 2011

Vial: 24
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

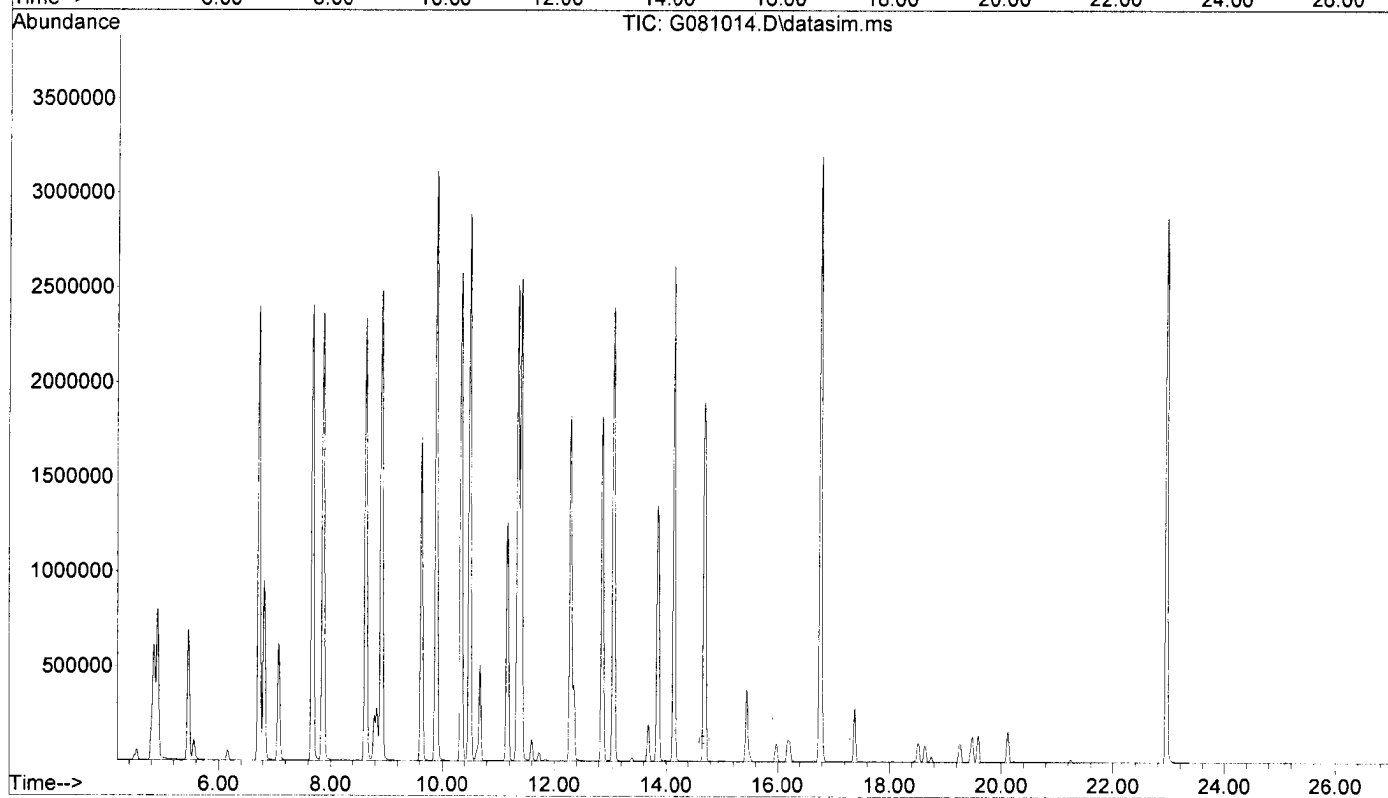
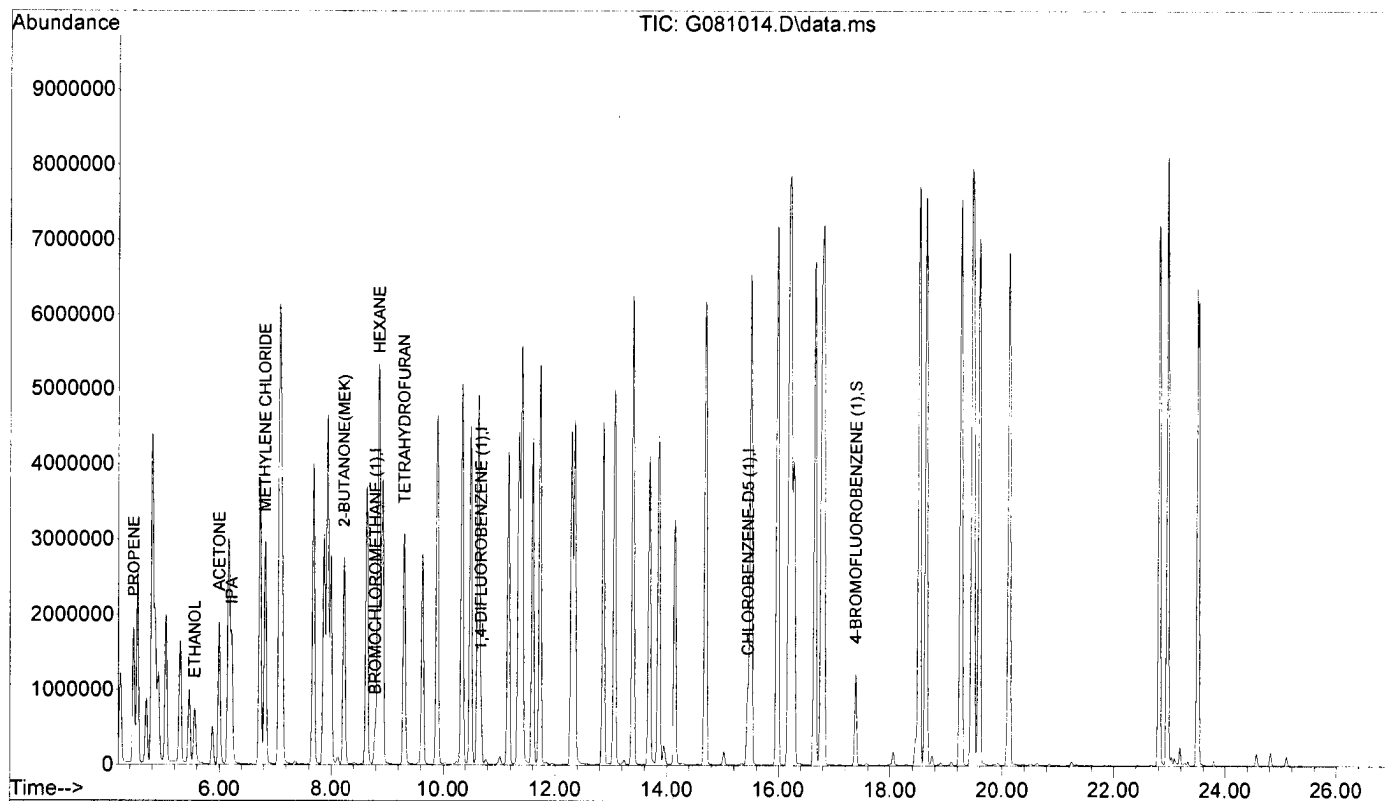
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	345305 ✓	8.00	PPBV	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.672	114	956897 ✓	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.448	117	864760 ✓	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	495314 ✓	8.84	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	110.50%
Target Compounds						
2) PROPENE	4.469	41	1608895 ✓	65.605	PPBV	Qvalue 97
11) ACETONE	5.990	43	3143249 ✓	98.086	PPBV	96
13) ETHANOL	5.555	45	618297 ✓	83.075	PPBV	97
15) METHYLENE CHLORIDE	6.815	49	2571702 ✓	65.206	PPBV	78
21) IPA	6.216	45	3072511 ✓	93.659	PPBV	97
22) 2-BUTANONE (MEK)	8.222	43	4724835 ✓	77.741	PPBV	87
25) HEXANE	8.856	41	1951458 ✓	52.063	PPBV	97
28) TETRAHYDROFURAN	9.301	71	1270055 ✓	93.026	PPBV	97

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

Data File : C:\msdchem\1\DATA\G081011\G081014.D
Acq On : 11 Aug 2011 2:45 am
Sample : 91PPBV STD
Misc : CTWS-2581
Quant Time: Aug 11 22:20:18 2011

Vial: 24
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G081011\G081015.D
 Acq On : 11 Aug 2011 3:31 am
 Sample : 182PPBV STD
 Misc : CTWS-2581
 Quant Time: Aug 11 22:21:11 2011

Vial: 24
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
 Quant Title : INITIAL RTE INTERGRATOR METHOD
 QLast Update : Wed May 04 13:26:29 2011
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

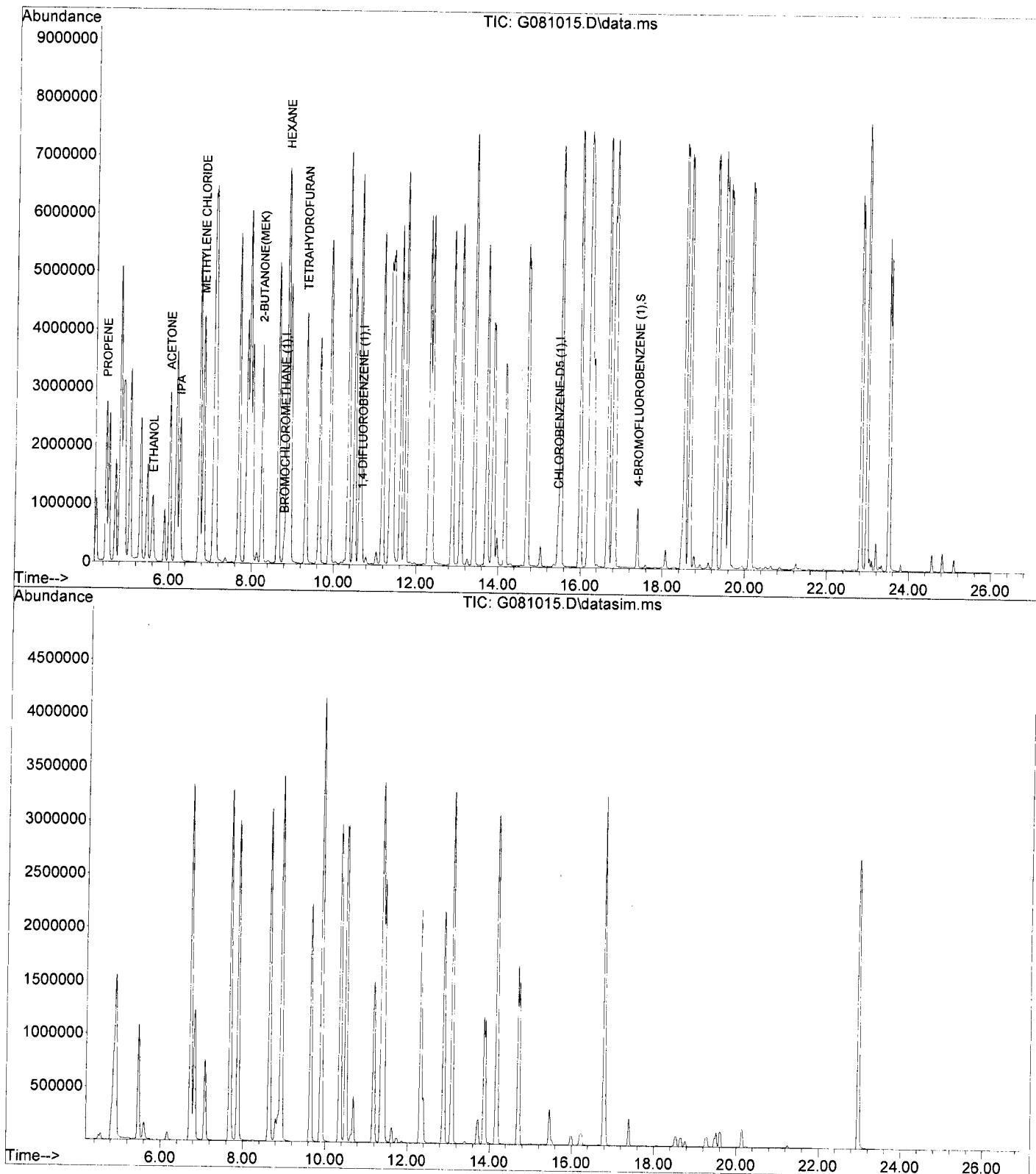
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.804	49	306787	8.00	PPBV	0.02
30) 1,4-DIFLUOROBENZENE (1)	10.688	114	830729	8.00	PPBV	0.02
44) CHLOROBENZENE-D5 (1)	15.457	117	777326	8.00	PPBV	0.02
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.394	174	438523	8.70	PPBV	0.02
Spiked Amount	8.000	Range	70 - 130	Recovery	=	108.75%
Target Compounds						
2) PROPENE	4.469	41	2539096	116.535	PPBV	Qvalue 95
11) ACETONE	6.007	43	5547835	194.857	PPBV	97
13) ETHANOL	5.602	45	1235079	186.782	PPBV	99
15) METHYLENE CHLORIDE	6.824	49	3916415	111.768	PPBV	# 76
21) IPA	6.259	45	5080415	174.310	PPBV	99
22) 2-BUTANONE (MEK)	8.248	43	7376937	136.618	PPBV	85
25) HEXANE	8.864	41	2599261	78.052	PPBV	99
28) TETRAHYDROFURAN	9.317	71	1970025	162.412	PPBV	96

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

Data File : C:\msdchem\1\DATA\G081011\G081015.D
Acq On : 11 Aug 2011 3:31 am
Sample : 182PPBv STD
Misc : CTWS-2581
Quant Time: Aug 11 22:21:11 2011

Vial: 24
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\G031011.m
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed May 04 13:26:29 2011
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Injection Log

630

C:\msdchem\1\DATA\G082410\

Date	Filename	Lab ID	Sample Info
24 Aug 2010	1:42 pm G082401.D	BFB	CTWS 2530
24 Aug 2010	2:22 pm G082402.D	5.0 PPBV CCV	CTWS 2536
24 Aug 2010	3:01 pm G082403.D	5.0 PPBV LCS	CTWS 2537
24 Aug 2010	3:42 pm G082404.D	12.5 UG/M3 CCV	CTWS 2548
24 Aug 2010	4:24 pm G082405.D	0.625 UG/M3 CCV	CTWS 2548
24 Aug 2010	5:02 pm G082406.D	1.25 UG/M3 CCV	CTWS 2548
24 Aug 2010	5:40 pm G082407.D	3.13 UG/M3 CCV	CTWS 2548
24 Aug 2010	6:18 pm G082408.D	6.25 UG/M3 CCV	CTWS 2548
24 Aug 2010	6:59 pm G082409.D	12.5 UG/M3 CCV	CTWS 2548
24 Aug 2010	7:44 pm G082410.D	25 UG/M3 CCV	CTWS 2548
24 Aug 2010	8:23 pm G082411.D	6.25 UG/M3 LCS	CTWS 2549
24 Aug 2010	9:08 pm G082412.D	MBL 0.5X	1,1,400,800,0.5X
24 Aug 2010	10:11 pm G082413.D	10H0521-01 1X	1.5,1,400,600,1X
24 Aug 2010	10:52 pm G082414.D	10H0521-02 1X	1,1,400,400,1X
24 Aug 2010	11:34 pm G082415.D	10H0521-03 1X	1,1,400,400,1X
25 Aug 2010	12:17 am G082416.D	10H0521-04 1X	1.5,1,400,600,1X
25 Aug 2010	1:01 am G082417.D	10H0521-05 1X	1.5,1,400,600,1X
25 Aug 2010	1:42 am G082418.D	10H0521-06 1X	1,1,400,400,1X
25 Aug 2010	2:25 am G082419.D	10H0521-07 1X	1.5,1,400,600,1X
25 Aug 2010	3:08 am G082420.D	10H0521-08 1X	1.5,1,400,600,1X
25 Aug 2010	3:51 am G082421.D	10H0521-09 1X	1.5,1,400,600,1X
25 Aug 2010	4:33 am G082422.D	10H0521-10 1X	1,1,400,400,1X
25 Aug 2010	5:16 am G082423.D	10H0521-11 1X	1.5,1,400,600,1X
25 Aug 2010	5:58 am G082424.D	10H0521-12 1X	1,1,400,400,1X
25 Aug 2010	6:41 am G082425.D	10H0521-12 1XDUP	1,1,400,400,1XDUP
25 Aug 2010	7:25 am G082426.D	10H0521-13 1X	1.5,1,400,600,1X
25 Aug 2010	8:06 am G082427.D	10H0521-14 1X	1,1,400,400,1X
25 Aug 2010	8:48 am G082428.D	10H0521-15 1X	1,1,400,400,1X

-----SEQUENCE TABLE -----

Sequence Name: C:\Smart\OLD SEQUENCES\G082410.SEQ

Date: 09-01-2011

Time: 19:20:43

Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto #	Samp Pos	Cal Vol.	Std Vol.	Method	Time
BFB 2	1	100	0	C:\Smart\ALDEHYDE.CTD	12:00		
5.0 ppbv CCV 2	2	100	0	C:\Smart\ALDEHYDE.CTD	12:00		
5.0 ppbv LCS 2	3	100	0	C:\Smart\ALDEHYDE.CTD	12:00		
12.5 UG/M3 CCV 2	4	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
0.625 UG/M3 CCV 2	4	20	0	C:\Smart\ALDEHYDE.CTD	12:00		
1.25 UG/M3 CCV 2	4	40	0	C:\Smart\ALDEHYDE.CTD	12:00		
3.13 UG/M3 CCV 2	4	100	0	C:\Smart\ALDEHYDE.CTD	12:00		
6.25 UG/M3 CCV 2	4	200	0	C:\Smart\ALDEHYDE.CTD	12:00		
12.5 UG/M3 CCV 2	4	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
25 UG/M3 CCV 2	4	800	0	C:\Smart\ALDEHYDE.CTD	12:00		
6.25 UG/M3 LCS 2	5	50	0	C:\Smart\ALDEHYDE.CTD	12:00		
MBL 0.5X 1	1	800	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-01 1X 1	2	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-02 1X 1	3	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-03 1X 1	4	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-04 1X 1	5	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-05 1X 1	6	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-06 1X 1	7	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-07 1X 1	8	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-08 1X 1	9	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-09 1X 1	10	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-10 1X 1	11	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-11 1X 1	12	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-12 1X 1	13	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-12 1XDUP 1	13	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-13 1X 1	14	600	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-14 1X 1	15	400	0	C:\Smart\ALDEHYDE.CTD	12:00		
10H0521-15 1X 1	16	400	0	C:\Smart\ALDEHYDE.CTD	12:00		

Method Path : C:\msdchem\1\METHODS\
 Method File : EX082410.M
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Wed Aug 25 10:05:43 2010
 Response Via : Initial Calibration

Calibration Files											
2	=G082405.D	3	=G082406.D	4	=G082407.D	5	=G082408.D	6	=G082409.D	7	=G082410.D

Compound		2	3	4	5	6	7	Avg	%RSD		

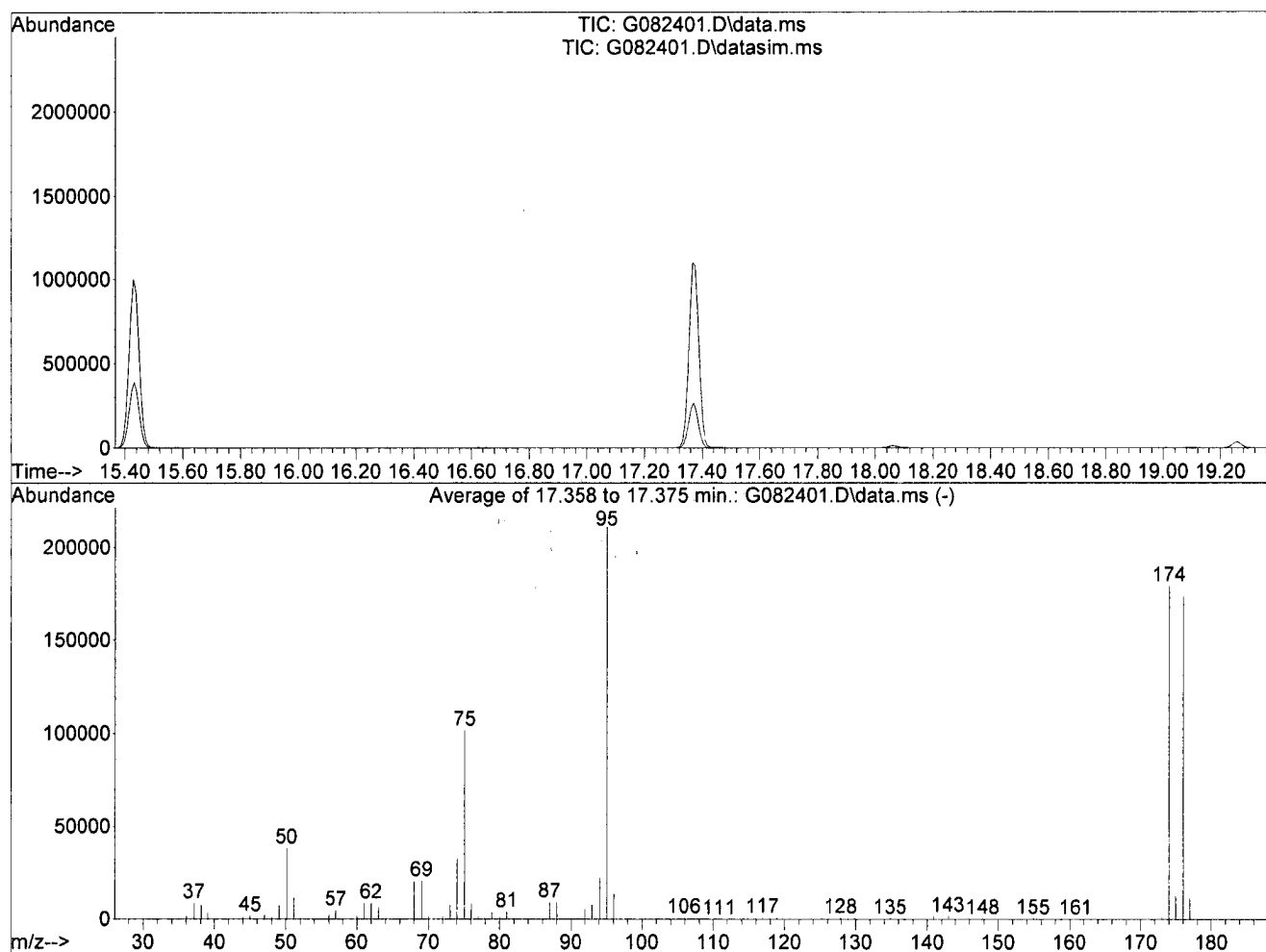
1) I	1, 4-DIFLUOROBENZEN...	-----ISTD-----									
2)	ACRYLONITRILE	0.195	0.152	0.139	0.134	0.125	0.125	0.145	18.28		
3)	METHYL ACETATE	0.584	0.504	0.413	0.384	0.370	0.375	0.438	19.80		
4)	TERT-BUTYL ALC...	0.519	0.472	0.431	0.449	0.453	0.474	0.466	6.50		
5)	2,2,4-TRIMETHY...	1.395	1.177	1.105	1.075	1.058	1.062	1.145	11.33		
6)	METHYLCYCLOHEXANE	0.576	0.463	0.462	0.442	0.437	0.448	0.471	11.11		
7) I	CHLOROBENZENE-D5 (2)	-----ISTD-----									
8)	1,3-DICHLOROPR...	3.186	2.819	2.543	2.327	2.587	2.509	2.662	11.33		
9)	1,1,1,2-TETRAC...	1.909	1.516	1.543	1.511	1.833	1.757	1.678	10.52		
10) S	4-BROMOFLUOROB...	3.040	2.986	2.903	2.876	3.175	3.181	3.027	4.32		
11)	CUMENE	6.300	5.354	6.144	6.354	7.385	7.585	6.520	12.76		
12)	PROPYLBENZENE	1.571	1.445	1.707	1.799	1.978	2.039	1.757	13.09		
13)	TERT-BUTYLBENZENE	1.052	0.953	1.133	1.209	1.382	1.410	1.190	15.21		
14)	SEC-BUTYLBENZENE	6.589	6.050	7.491	8.197	9.037	9.258	7.770	16.71		
15)	P-CYME	5.383	5.152	6.044	6.813	7.620	7.885	6.483	17.64		
16)	INDANE	3.949	4.043	4.732	5.314	5.800	6.075	4.985	17.91		
17)	INDENE	3.216	2.959	3.721	4.138	4.561	4.745	3.890	18.51		
18)	BUTYLBENZENE	5.856	5.302	6.031	6.834	7.303	7.620	6.491	13.92		
19)	1,2-DIBROMO-3-...	1.839	1.530	1.600	1.854	1.978	1.998	1.800	10.78		
20)	HEXYLCYCLOHEXANE	6.588	4.828	4.877	5.262	5.928	5.650	5.522	12.23		
21)	2-METHYLNAPHTH...	5.813	3.788	3.957	4.647	5.601	6.055	4.977	19.71		
22)	1-METHYLNAPHTH...	7.141	4.310	4.357	4.844	5.612	5.938	5.367	20.32		
23)	4-PHENYLCYCLOH...	8.814	5.914	6.047	6.805	7.472	7.985	7.173	15.81		

(#) = Out of Range											

Data Path : C:\msdchem\1\DATA\G082410\
 Data File : G082401.D
 Acq On : 24 Aug 2010 1:42 pm
 Operator : XC
 Sample : BFB
 Misc : CTWS 2530
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: WSD.P
 Integration File signal 2: rteint2.p

Method : C:\msdchem\1\METHODS\XC031610.m
 Title : INITIAL RTE INTERGRATOR METHOD
 Last Update : Thu Mar 18 10:53:39 2010



AutoFind: Scans 1588, 1589, 1590; Background Corrected with Scan 1580

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.1	38352	PASS
75	95	30	66	48.1	101576	PASS
95	95	100	100	100.0	211307	PASS
96	95	5	9	6.6	13848	PASS
173	174	0.00	2	0.6	1072	PASS
174	95	50	120	84.8	179179	PASS
175	174	4	9	7.1	12674	PASS
176	174	93	101	96.9	173589	PASS
177	176	5	9	6.8	11721	PASS

Data File : C:\msdchem\1\DATA\G082410\G082405.D
 Acq On : 24 Aug 2010 4:24 pm
 Sample : 0.625 UG/M3 CCV
 Misc : CTWS 2548
 Quant Time: Aug 25 09:48:19 2010

Vial: 24
 Operator: XC
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
 Quant Title : QUANT FILE FOR TO-14/TO-15
 QLast Update : Tue Aug 24 21:22:24 2010
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

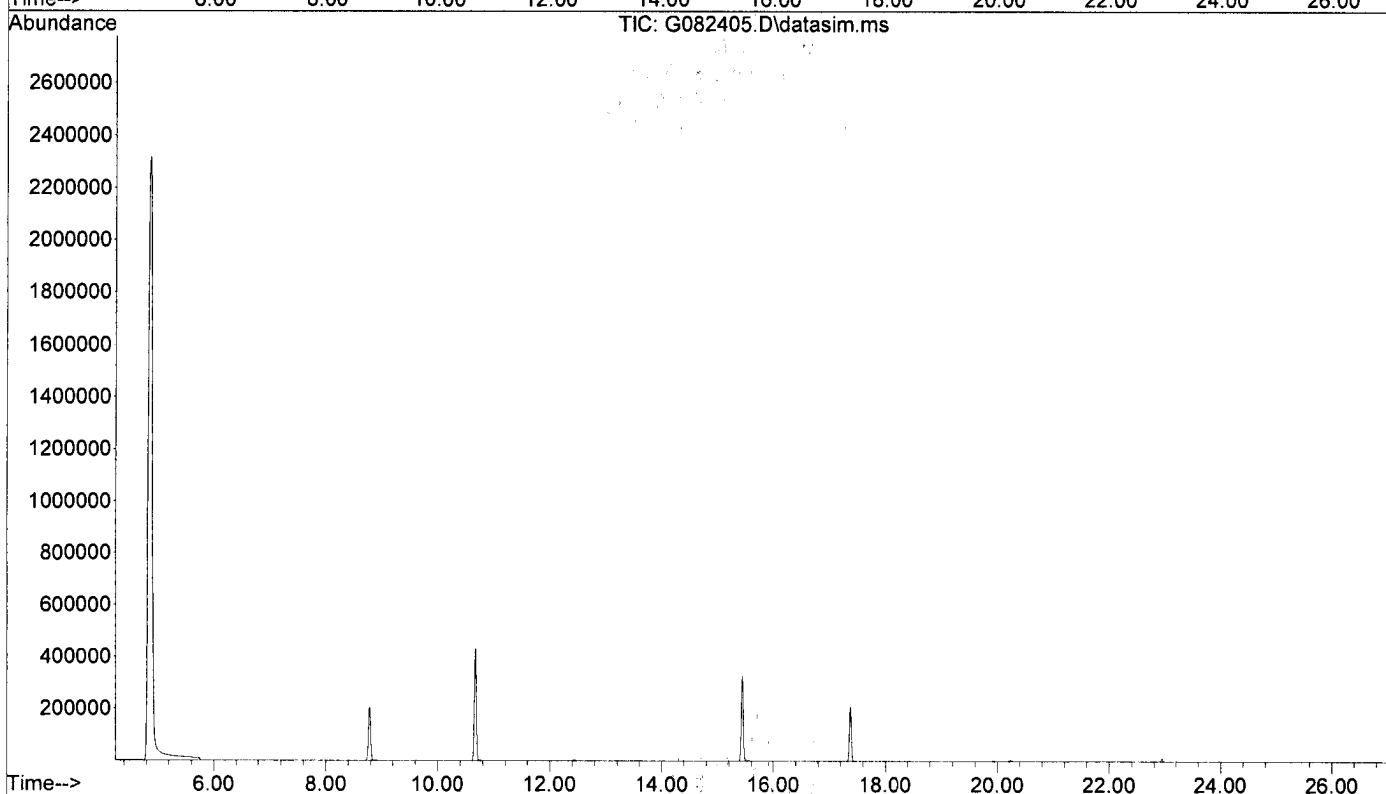
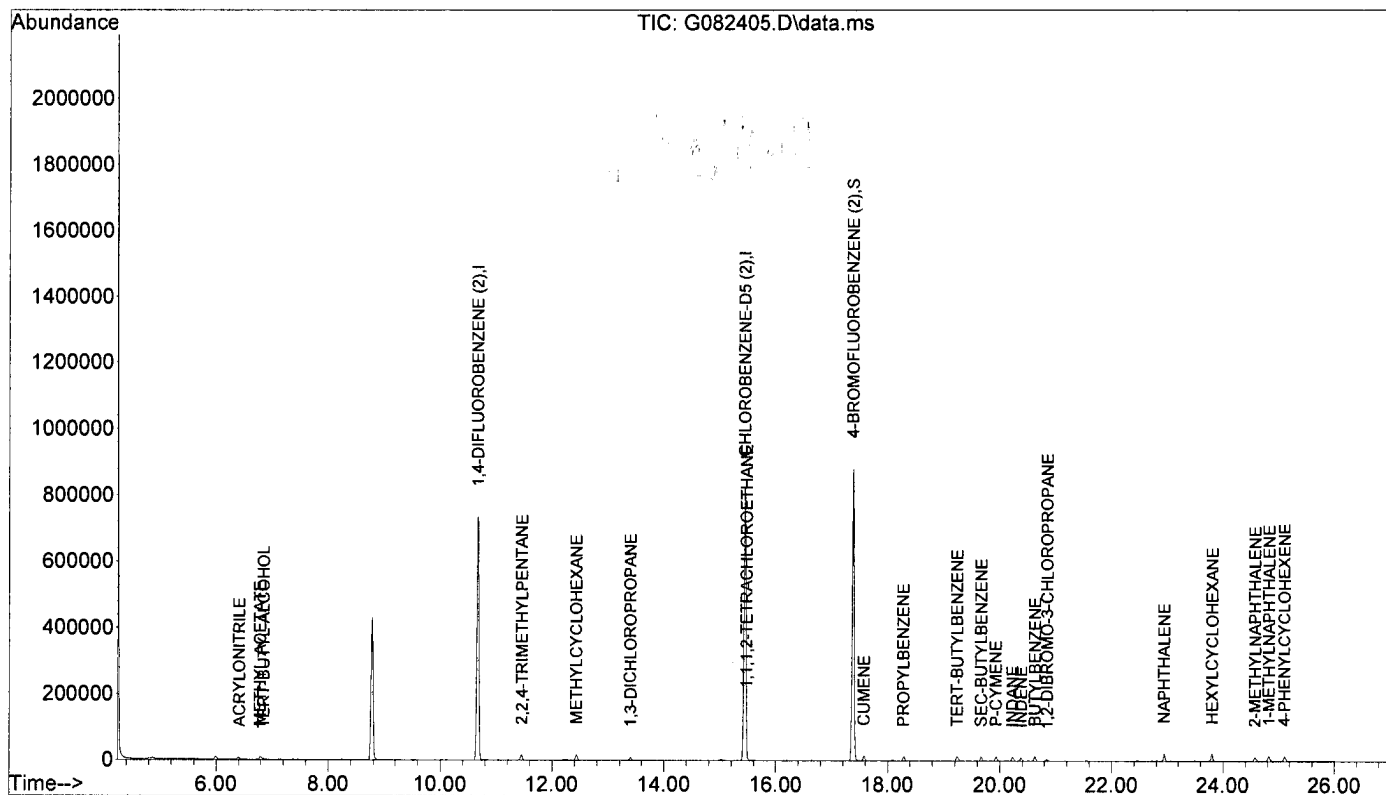
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.663	114	781832	8.00	PPBV	0.00
7) CHLOROBENZENE-D5 (2)	15.435	54	144498	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.372	95	439233	8.03	PPBV	-0.03
Spiked Amount	8.000	Range	70 - 130	Recovery	= 100.37%	
Target Compounds						
2) ACRYLONITRILE	6.406	53	5488	0.388	PPBV	Qvalue 97
3) METHYL ACETATE	6.788	43	11750	0.274	PPBV #	35
4) TERT-BUTYL ALCOHOL	6.849	59	10648	0.254	PPBV #	19
5) 2,2,4-TRIMETHYLPENTANE	11.463	57	18262	0.163	PPBV	98
6) METHYLCYCLOHEXANE	12.430	83	8784	0.191	PPBV	97
8) 1,3-DICHLOROPROPANE	13.393	76	7769	0.161	PPBV	99
9) 1,1,1,2-TETRACHLOROETHANE	15.469	131	3138	0.104	PPBV	97
11) CUMENE	17.572	105	14451	0.123	PPBV	100
12) PROPYLBENZENE	18.285	120	3604	0.114	PPBV #	92
13) TERT-BUTYLBENZENE	19.241	134	2167	0.101	PPBV #	84
14) SEC-BUTYLBENZENE	19.666	105	13567	0.097	PPBV	97
15) P-CYMENE	19.927	119	11085	0.095	PPBV	97
16) INDANE	20.223	117	9202	0.102	PPBV	94
17) INDENE	20.379	115	7668	0.109	PPBV	99
18) BUTYLBENZENE	20.631	91	12059	0.103	PPBV	95
19) 1,2-DIBROMO-3-CHLOROPR...	20.848	157	2159	0.066	PPBV	94
20) NAPHTHALENE	22.948	128	22054	0.138	PPBV	100
21) HEXYLCYCLOHEXANE	23.803	83	10828	0.109	PPBV	99
22) 2-METHYLNAPHTHALENE	24.566	142	11234	0.125	PPBV	96
23) 1-METHYLNAPHTHALENE	24.816	142	13802	0.142	PPBV	98
24) 4-PHENYLCYCLOHEXENE	25.099	104	15443	0.119	PPBV	98

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

Data File : C:\msdchem\1\DATA\G082410\G082405.D
Acq On : 24 Aug 2010 4:24 pm
Sample : 0.625 UG/M3 CCV
Misc : CTWS 2548
Quant Time: Aug 25 09:48:19 2010

Vial: 24
Operator: XC
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
Quant Title : QUANT FILE FOR TO-14/TO-15
QLast Update : Tue Aug 24 21:22:24 2010
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G082410\G082406.D
 Acq On : 24 Aug 2010 5:02 pm
 Sample : 1.25 UG/M3 CCV
 Misc : CTWS 2548
 Quant Time: Aug 25 09:50:00 2010

Vial: 24
 Operator: XC
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
 Quant Title : QUANT FILE FOR TO-14/TO-15
 QLast Update : Wed Aug 25 09:49:10 2010
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

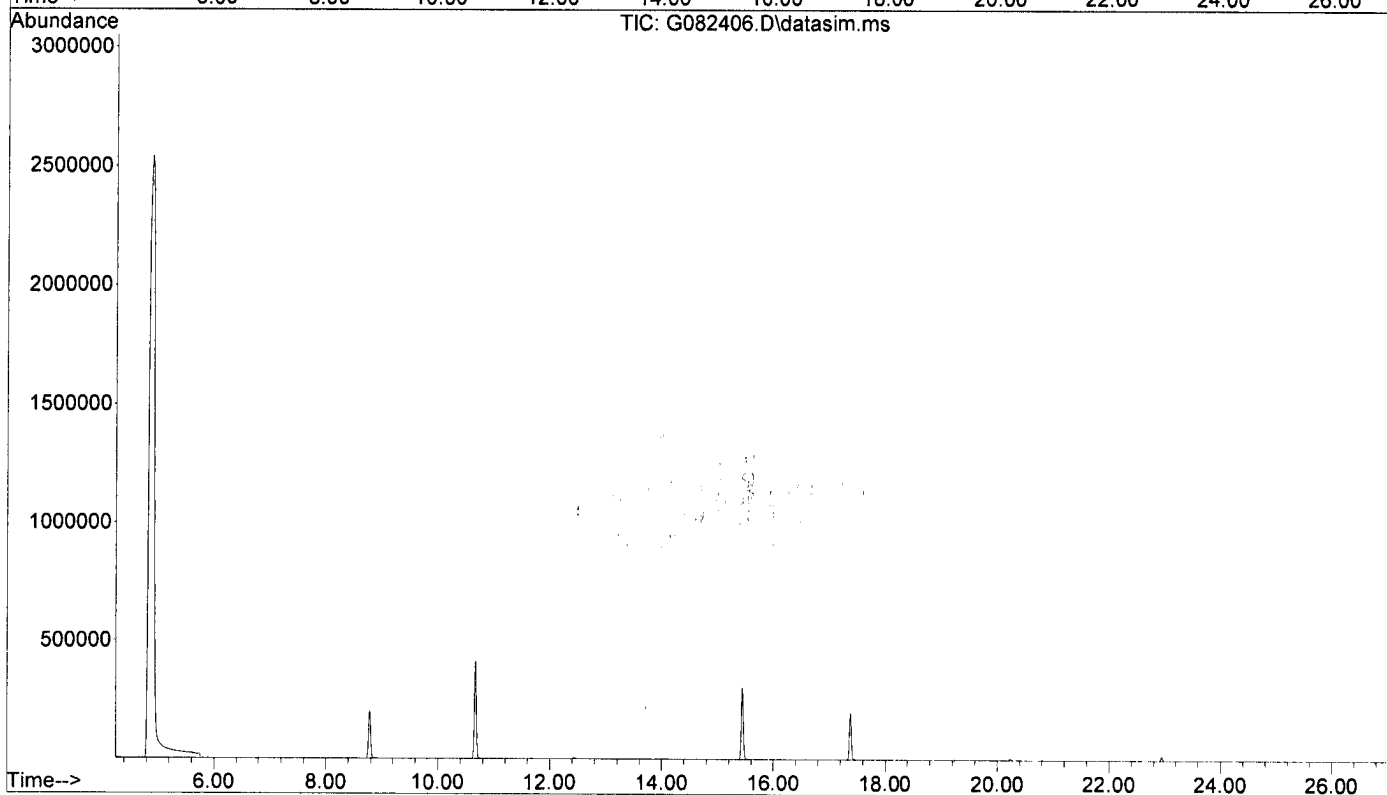
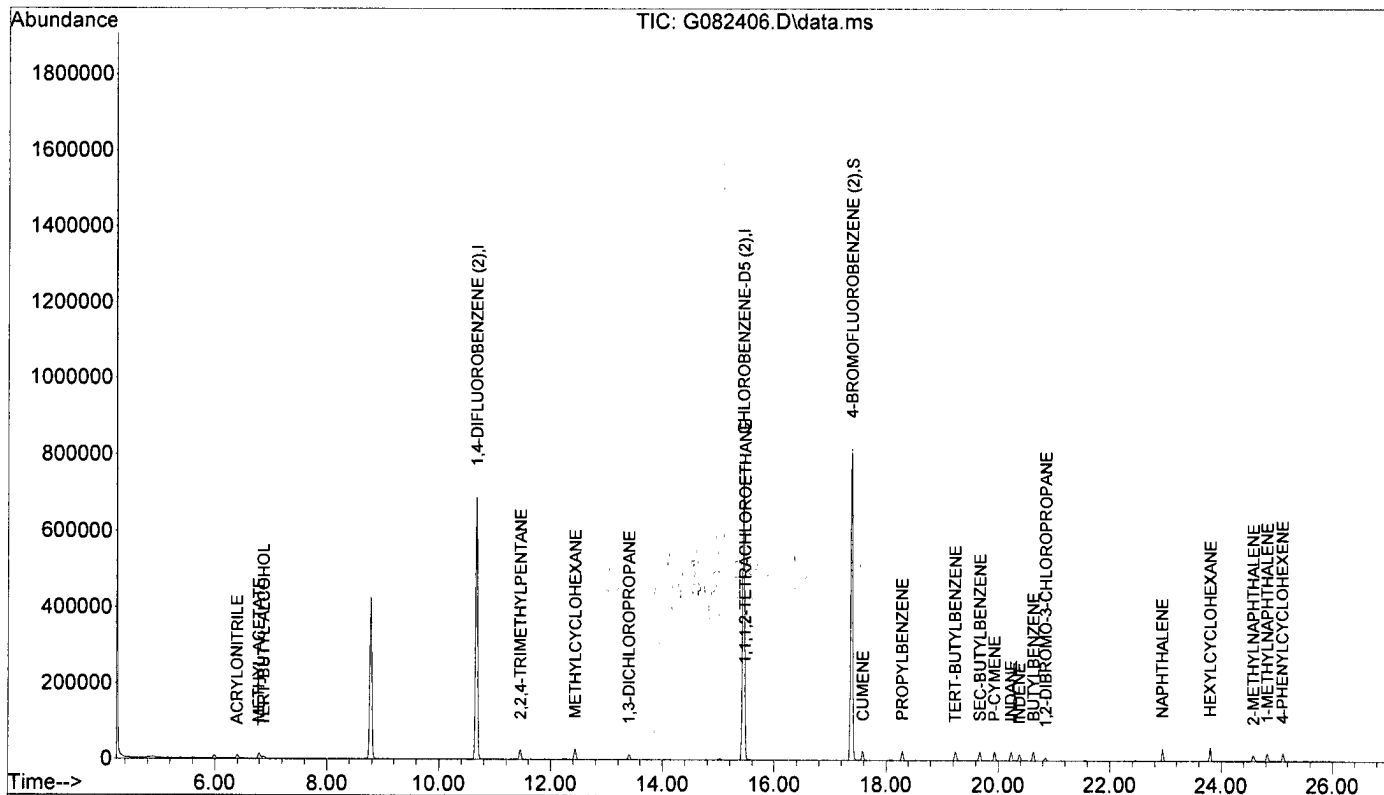
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	756506	8.00	PPBV	0.00
7) CHLOROBENZENE-D5 (2)	15.444	54	137596	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.381	95	410923	7.89	PPBV	-0.02
Spiked Amount	8.000	Range	70 - 130	Recovery	=	98.63%
Target Compounds						
2) ACRYLONITRILE	6.389	53	8263	0.603	PPBV	Qvalue 95
3) METHYL ACETATE	6.789	43	19688	0.475	PPBV	# 73
4) TERT-BUTYL ALCOHOL	6.875	59	18393m	0.453	PPBV	
5) 2,2,4-TRIMETHYLPENTANE	11.463	57	29816	0.275	PPBV	99
6) METHYLCYCLOHEXANE	12.438	83	13616	0.305	PPBV	99
8) 1,3-DICHLOROPROPANE	13.393	76	13092	0.286	PPBV	95
9) 1,1,1,2-TETRACHLOROETHANE	15.470	131	4746	0.164	PPBV	91
11) CUMENE	17.581	105	23392	0.209	PPBV	99
12) PROPYLBENZENE	18.294	120	6312	0.209	PPBV	93
13) TERT-BUTYLBENZENE	19.232	134	3739	0.183	PPBV	# 90
14) SEC-BUTYLBENZENE	19.675	105	23724	0.178	PPBV	98
15) P-CYMENE	19.936	119	20205	0.181	PPBV	98
16) INDANE	20.231	117	18009	0.210	PPBV	95
17) INDENE	20.379	115	13386	0.200	PPBV	99
18) BUTYLBENZENE	20.640	91	20793	0.186	PPBV	99
19) 1,2-DIBROMO-3-CHLOROPR...	20.857	157	3395	0.110	PPBV	96
20) NAPHTHALENE	22.948	128	31429	0.206	PPBV	100
21) HEXYLCYCLOHEXANE	23.803	83	15114	0.159	PPBV	97
22) 2-METHYLNAPHTHALENE	24.573	142	14008	0.164	PPBV	97
23) 1-METHYLNAPHTHALENE	24.823	142	15937	0.173	PPBV	95
24) 4-PHENYLCYCLOHEXENE	25.099	104	19631	0.159	PPBV	100

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

Data File : C:\msdchem\1\DATA\G082410\G082406.D
Acq On : 24 Aug 2010 5:02 pm
Sample : 1.25 UG/M3 CCV
Misc : CTWS 2548
Quant Time: Aug 25 09:50:00 2010

Vial: 24
Operator: XC
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
Quant Title : QUANT FILE FOR TO-14/TO-15
QLast Update : Wed Aug 25 09:49:10 2010
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G082410\G082407.D
 Acq On : 24 Aug 2010 5:40 pm
 Sample : 3.13 UG/M3 CCV
 Misc : CTWS 2548
 Quant Time: Aug 25 09:50:50 2010

Vial: 24
 Operator: XC
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
 Quant Title : QUANT FILE FOR TO-14/TO-15
 QLast Update : Wed Aug 25 09:50:34 2010
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

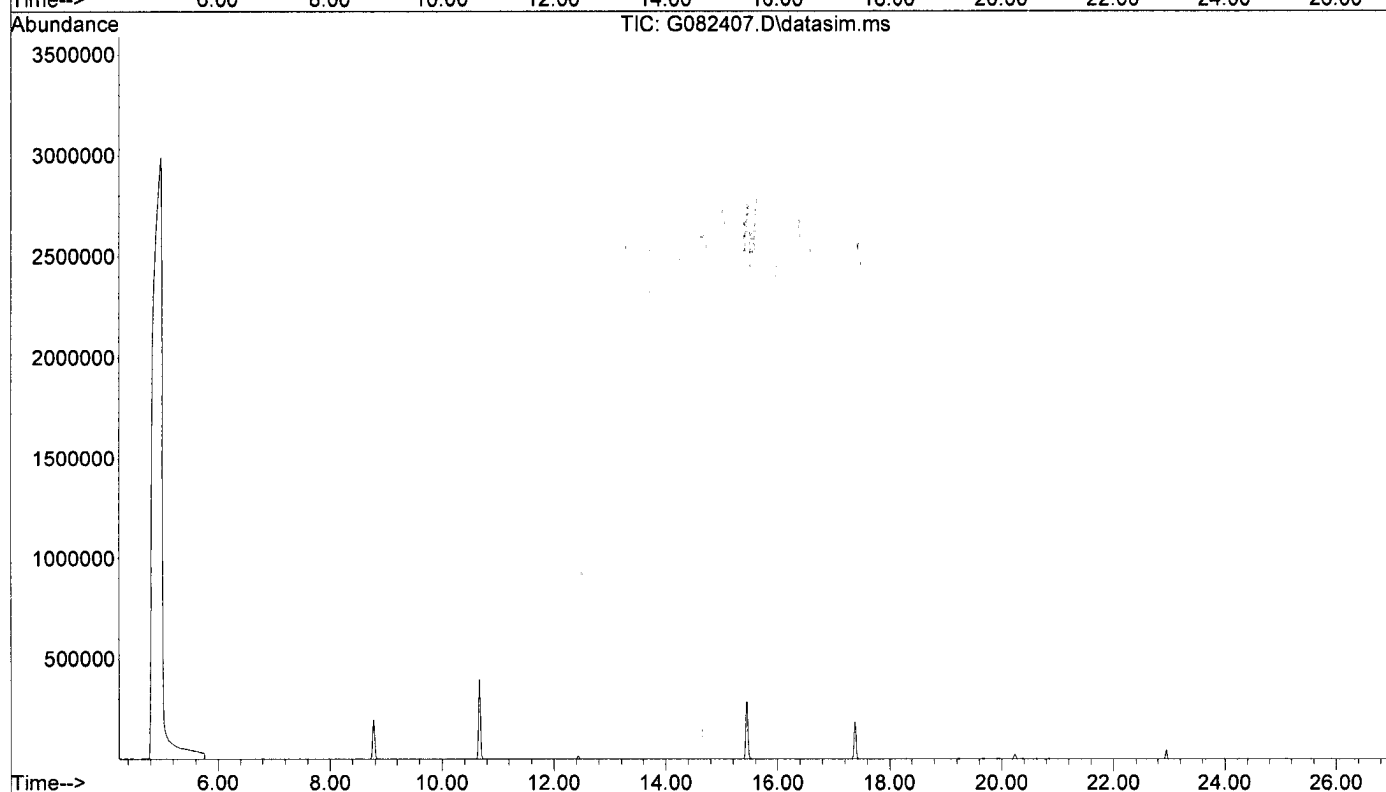
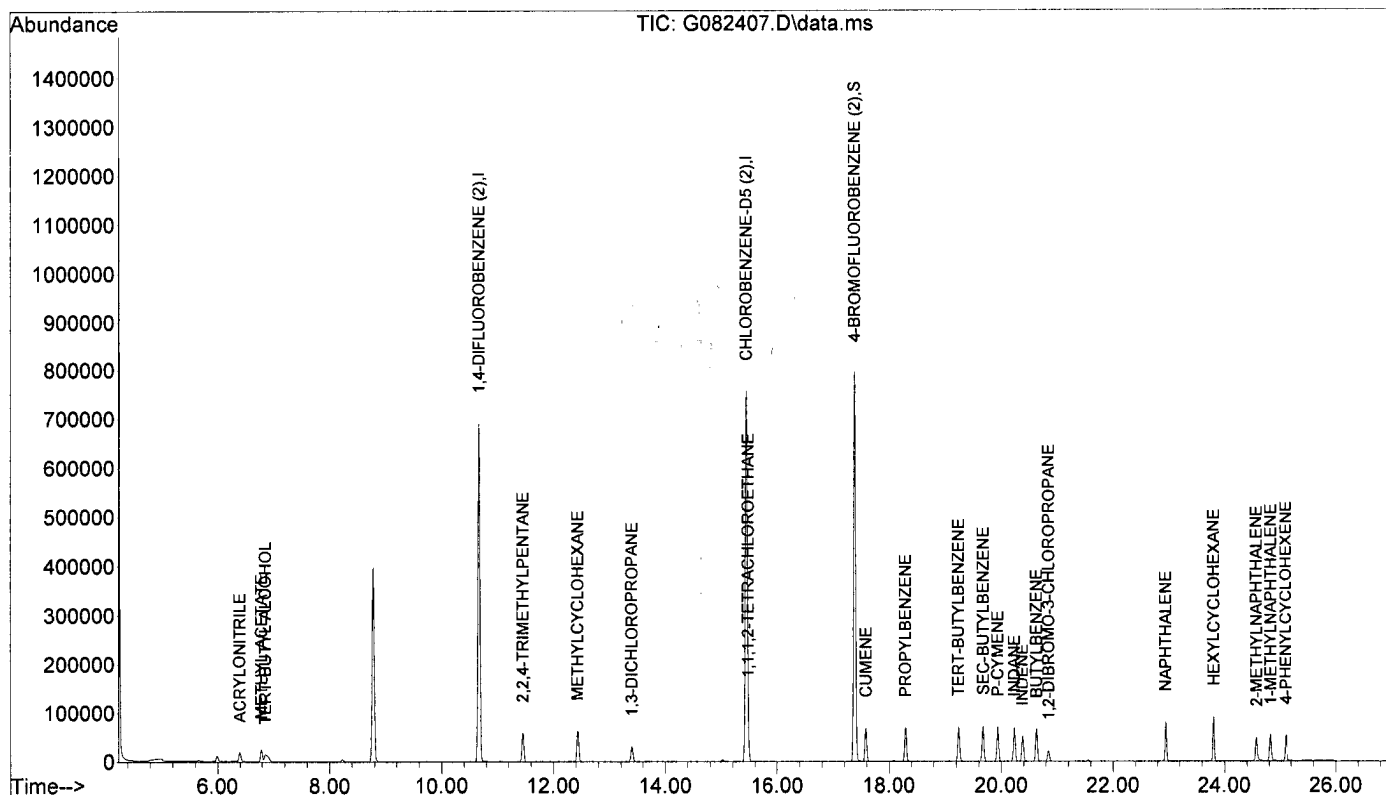
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.663	114	726156	8.00	PPBV	0.00
7) CHLOROBENZENE-D5 (2)	15.443	54	135435	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.381	95	393203	7.67	PPBV	-0.02
Spiked Amount	8.000	Range	70 - 130	Recovery	=	95.88%
Target Compounds						
2) ACRYLONITRILE	6.389	53	18115	1.378	PPBV	99
3) METHYL ACETATE	6.789	43	38636	0.971	PPBV	96
4) TERT-BUTYL ALCOHOL	6.858	59	40335	0.954	PPBV	95
5) 2,2,4-TRIMETHYLPENTANE	11.455	57	67101	0.645	PPBV	99
6) METHYLCYCLOHEXANE	12.430	83	32655	0.763	PPBV	98
8) 1,3-DICHLOROPROPANE	13.393	76	29103	0.645	PPBV	98
9) 1,1,1,2-TETRACHLOROETHANE	15.478	131	11889	0.418	PPBV	98
11) CUMENE	17.581	105	66153	0.599	PPBV	100
12) PROPYLBENZENE	18.294	120	18384	0.618	PPBV	95
13) TERT-BUTYLBENZENE	19.241	134	10911	0.542	PPBV #	94
14) SEC-BUTYLBENZENE	19.675	105	72158	0.549	PPBV	99
15) P-CYMENE	19.936	119	58222	0.530	PPBV	98
16) INDANE	20.231	117	51829	0.614	PPBV	97
17) INDENE	20.379	115	41446	0.629	PPBV	99
18) BUTYLBENZENE	20.631	91	58091	0.529	PPBV	98
19) 1,2-DIBROMO-3-CHLOROPR...	20.848	157	8748	0.287	PPBV	98
20) NAPHTHALENE	22.948	128	76734	0.511	PPBV	99
21) HEXYLCYCLOHEXANE	23.803	83	37485	0.401	PPBV	98
22) 2-METHYLNAPHTHALENE	24.566	142	35975	0.427	PPBV	99
23) 1-METHYLNAPHTHALENE	24.822	142	39606	0.436	PPBV	97
24) 4-PHENYLCYCLOHEXENE	25.099	104	49549	0.408	PPBV	99

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

Data File : C:\msdchem\1\DATA\G082410\G082407.D
Acq On : 24 Aug 2010 5:40 pm
Sample : 3.13 UG/M3 CCV
Misc : CTWS 2548
Quant Time: Aug 25 09:50:50 2010

Vial: 24
Operator: XC
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
Quant Title : QUANT FILE FOR TO-14/TO-15
QLast Update : Wed Aug 25 09:50:34 2010
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G082410\G082408.D
 Acq On : 24 Aug 2010 6:18 pm
 Sample : 6.25 UG/M3 CCV
 Misc : CTWS 2548
 Quant Time: Aug 25 09:51:32 2010

Vial: 24
 Operator: XC
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
 Quant Title : QUANT FILE FOR TO-14/TO-15
 QLast Update : Wed Aug 25 09:51:15 2010
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

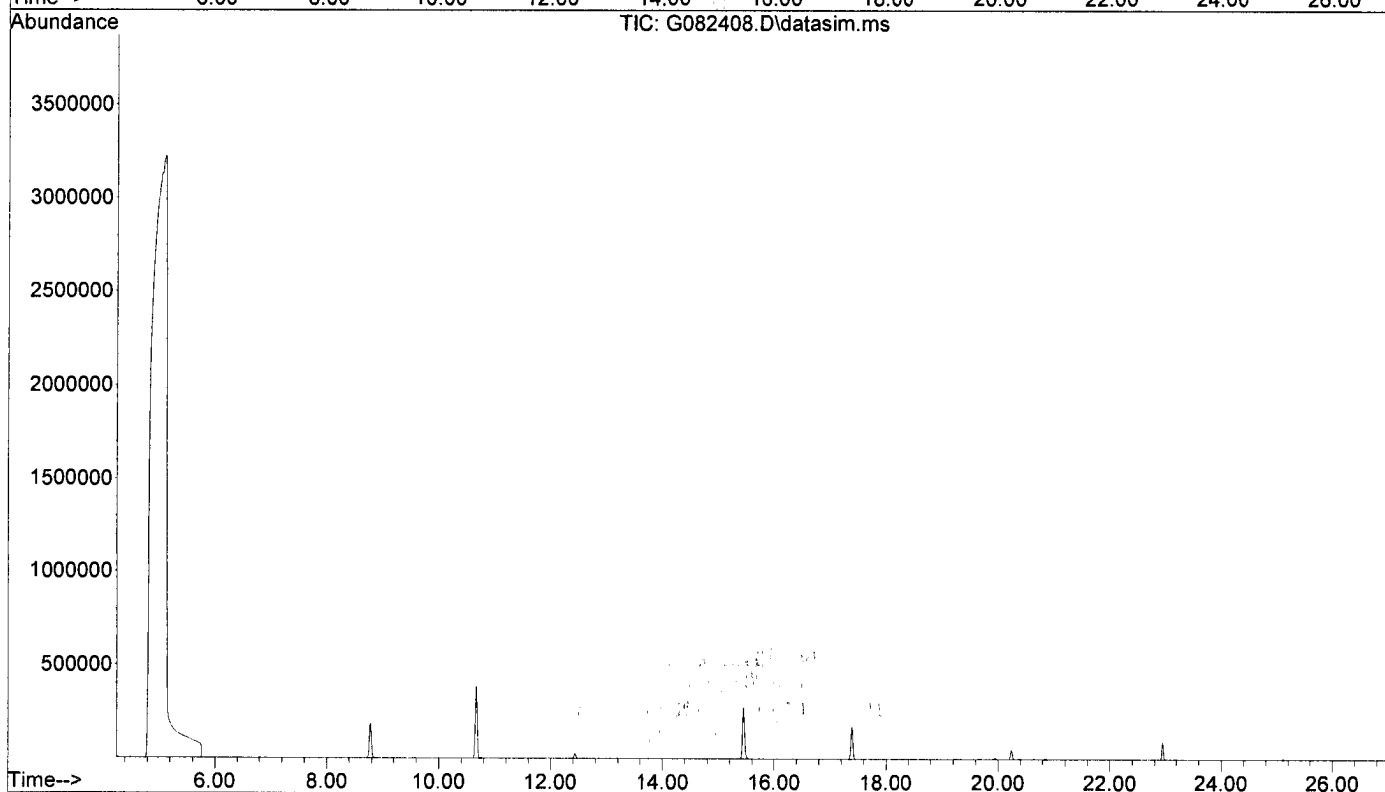
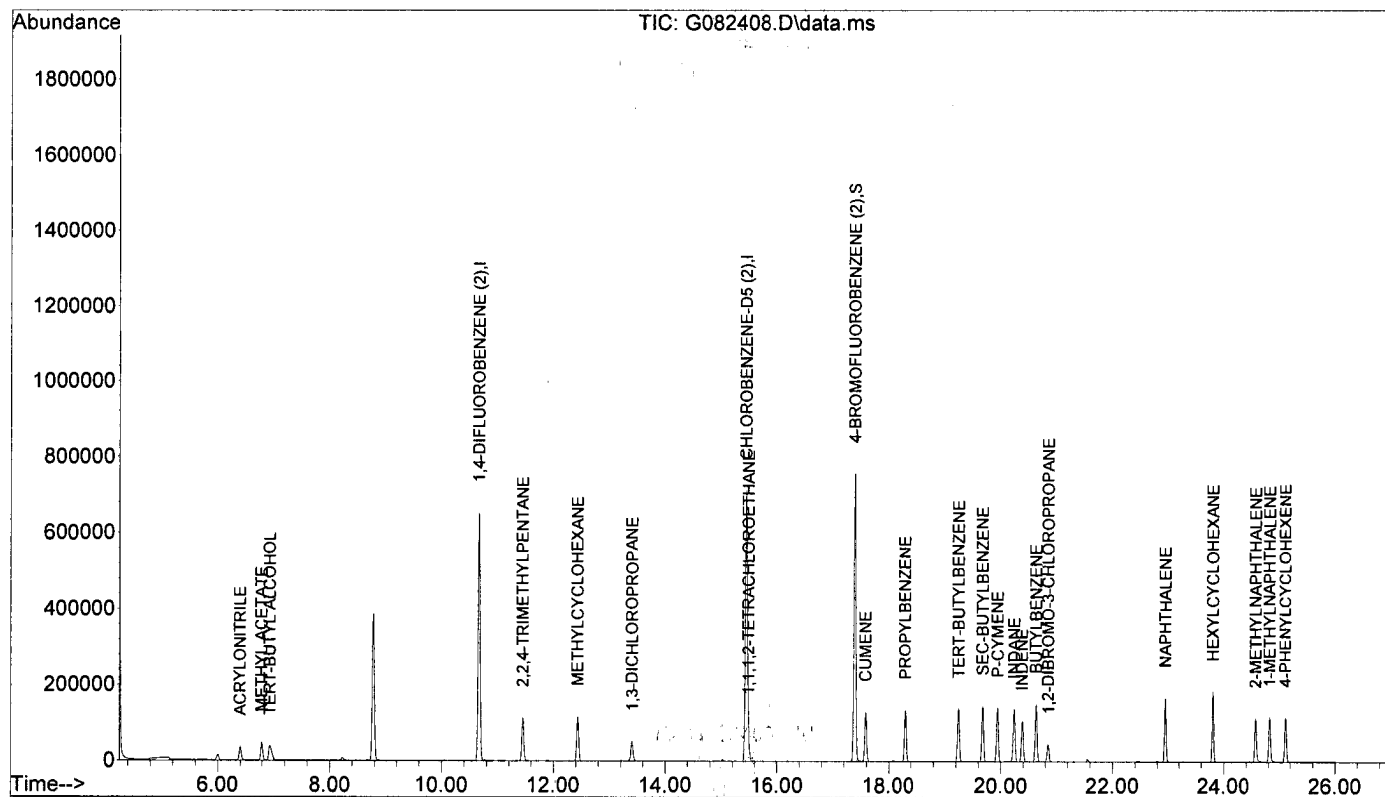
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.663	114	702121	8.00	PPBV	0.00
7) CHLOROBENZENE-D5 (2)	15.444	54	128006	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.390	95	368171	7.60	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	95.00%
Target Compounds						
2) ACRYLONITRILE	6.398	53	33783	2.657	PPBV	99
3) METHYL ACETATE	6.789	43	69596	1.809	PPBV	95
4) TERT-BUTYL ALCOHOL	6.936	59	81201	1.987	PPBV	94
5) 2,2,4-TRIMETHYLPENTANE	11.455	57	126234	1.256	PPBV	98
6) METHYLCYCLOHEXANE	12.430	83	60365	1.459	PPBV	99
8) 1,3-DICHLOROPROPANE	13.401	76	50346	1.181	PPBV	96
9) 1,1,1,2-TETRACHLOROETHANE	15.487	131	21997	0.819	PPBV	99
11) CUMENE	17.581	105	129221	1.239	PPBV	99
12) PROPYLBENZENE	18.302	120	36587	1.302	PPBV #	90
13) TERT-BUTYLBENZENE	19.250	134	22035	1.157	PPBV	98
14) SEC-BUTYLBENZENE	19.675	105	149382	1.202	PPBV	99
15) P-CYMENE	19.945	119	124158	1.197	PPBV	99
16) INDANE	20.240	117	109941	1.378	PPBV	98
17) INDENE	20.379	115	87124	1.400	PPBV	99
18) BUTYLBENZENE	20.640	91	124551	1.199	PPBV	99
19) 1,2-DIBROMO-3-CHLOROPR...	20.857	157	19194	0.667	PPBV	98
20) NAPHTHALENE	22.955	128	162281	1.144	PPBV	99
21) HEXYLCYCLOHEXANE	23.803	83	76456	0.865	PPBV	98
22) 2-METHYLNAPHTHALENE	24.566	142	79934	1.004	PPBV	99
23) 1-METHYLNAPHTHALENE	24.816	142	83326	0.970	PPBV	98
24) 4-PHENYLCYCLOHEXENE	25.105	104	105292	0.917	PPBV	99

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

Data File : C:\msdchem\1\DATA\G082410\G082408.D
Acq On : 24 Aug 2010 6:18 pm
Sample : 6.25 UG/M3 CCV
Misc : CTWS 2548
Quant Time: Aug 25 09:51:32 2010

Vial: 24
Operator: XC
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
Quant Title : QUANT FILE FOR TO-14/TO-15
QLast Update : Wed Aug 25 09:51:15 2010
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G082410\G082409.D
 Acq On : 24 Aug 2010 6:59 pm
 Sample : 12.5 UG/M3 CCV
 Misc : CTWS 2548
 Quant Time: Aug 25 09:52:18 2010

Vial: 24
 Operator: XC
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
 Quant Title : QUANT FILE FOR TO-14/TO-15
 QLast Update : Wed Aug 25 09:52:00 2010
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

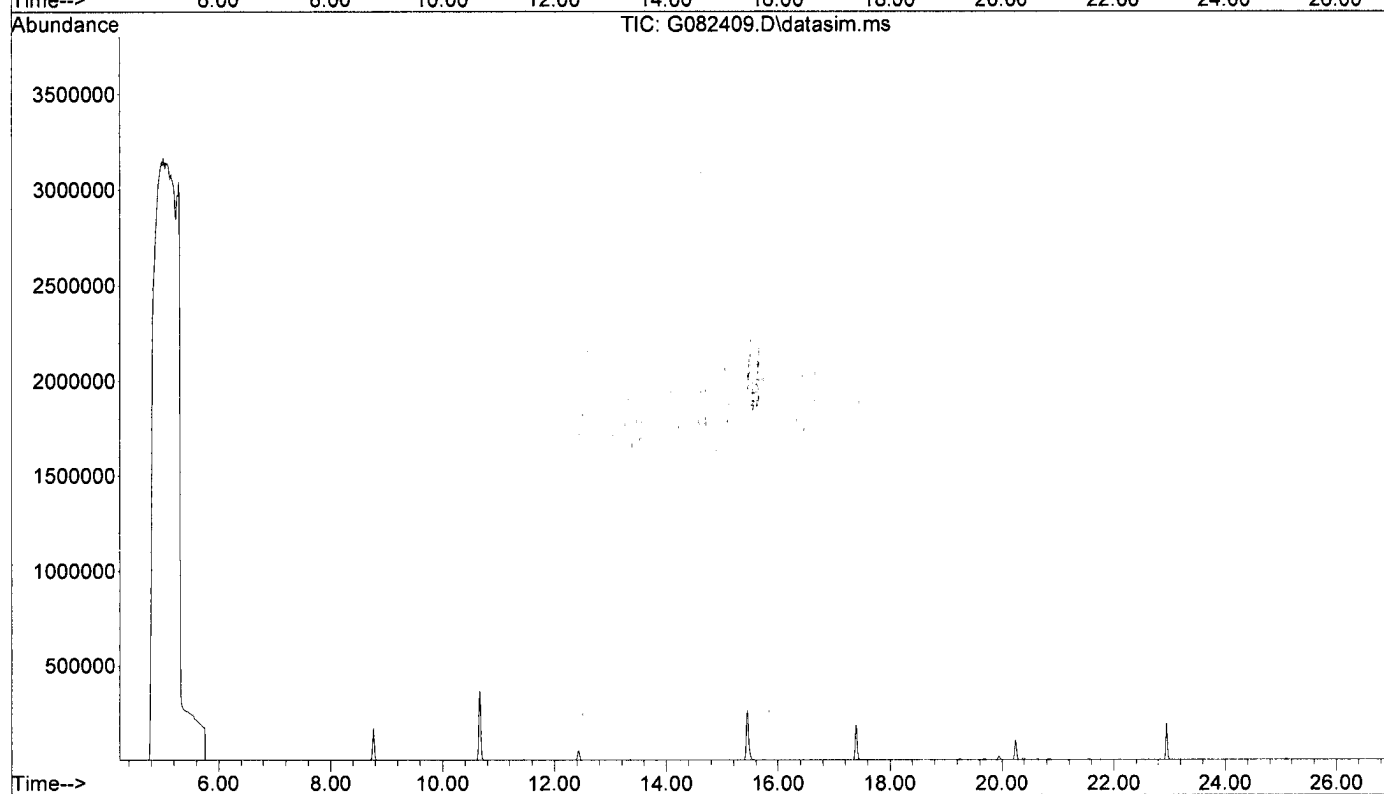
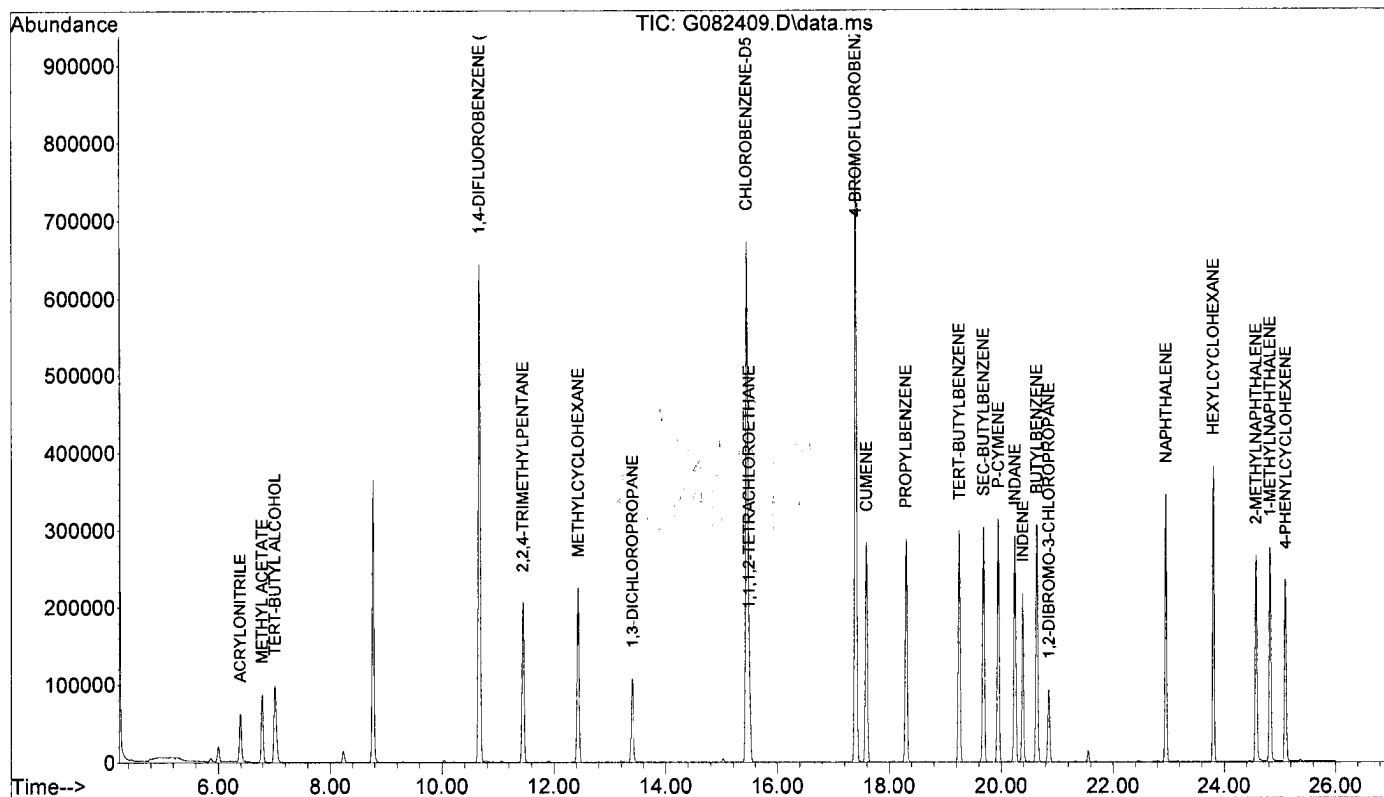
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.663	114	680029	8.00	PPBV	0.00
7) CHLOROBENZENE-D5 (2)	15.443	54	122763	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.399	95	389779	8.39	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.88%
Target Compounds						
2) ACRYLONITRILE	6.389	53	61086	4.961	PPBV	Qvalue 98
3) METHYL ACETATE	6.788	43	129916	3.487	PPBV	95
4) TERT-BUTYL ALCOHOL	7.014	59	158623	4.008	PPBV	95
5) 2,2,4-TRIMETHYLPENTANE	11.448	57	240701	2.473	PPBV	98
6) METHYLCYCLOHEXANE	12.430	83	115736	2.888	PPBV	97
8) 1,3-DICHLOROPROPANE	13.401	76	107394	2.627	PPBV	98
9) 1,1,1,2-TETRACHLOROETHANE	15.487	131	51213	1.989	PPBV	99
11) CUMENE	17.590	105	288184	2.880	PPBV	100
12) PROPYLBENZENE	18.302	120	77187	2.864	PPBV	98
13) TERT-BUTYLBENZENE	19.249	134	48295	2.645	PPBV	93
14) SEC-BUTYLBENZENE	19.684	105	315779	2.648	PPBV	99
15) P-CYMENE	19.945	119	266252	2.676	PPBV	100
16) INDANE	20.240	117	230174	3.009	PPBV	99
17) INDENE	20.388	115	184148	3.085	PPBV	98
18) BUTYLBENZENE	20.640	91	255190	2.562	PPBV	99
19) 1,2-DIBROMO-3-CHLOROPR...	20.857	157	39249	1.421	PPBV	97
20) NAPHTHALENE	22.955	128	342152	2.515	PPBV	99
21) HEXYLCYCLOHEXANE	23.803	83	165204	1.949	PPBV	98
22) 2-METHYLNAPHTHALENE	24.566	142	184717	2.419	PPBV	99
23) 1-METHYLNAPHTHALENE	24.816	142	185052	2.247	PPBV	98
24) 4-PHENYLCYCLOHEXENE	25.105	104	221746	2.015	PPBV	97

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

Data File : C:\msdchem\1\DATA\G082410\G082409.D
Acq On : 24 Aug 2010 6:59 pm
Sample : 12.5 UG/M3 CCV
Misc : CTWS 2548
Quant Time: Aug 25 09:52:18 2010

Vial: 24
Operator: XC
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
Quant Title : QUANT FILE FOR TO-14/TO-15
QLast Update : Wed Aug 25 09:52:00 2010
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



Data File : C:\msdchem\1\DATA\G082410\G082410.D
 Acq On : 24 Aug 2010 7:44 pm
 Sample : 25 UG/M3 CCV
 Misc : CTWS 2548
 Quant Time: Aug 25 09:53:20 2010

Vial: 24
 Operator: XC
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
 Quant Title : QUANT FILE FOR TO-14/TO-15
 QLast Update : Wed Aug 25 09:53:01 2010
 Response via : Initial Calibration
 DataAcq Meth:TO15RUN.M

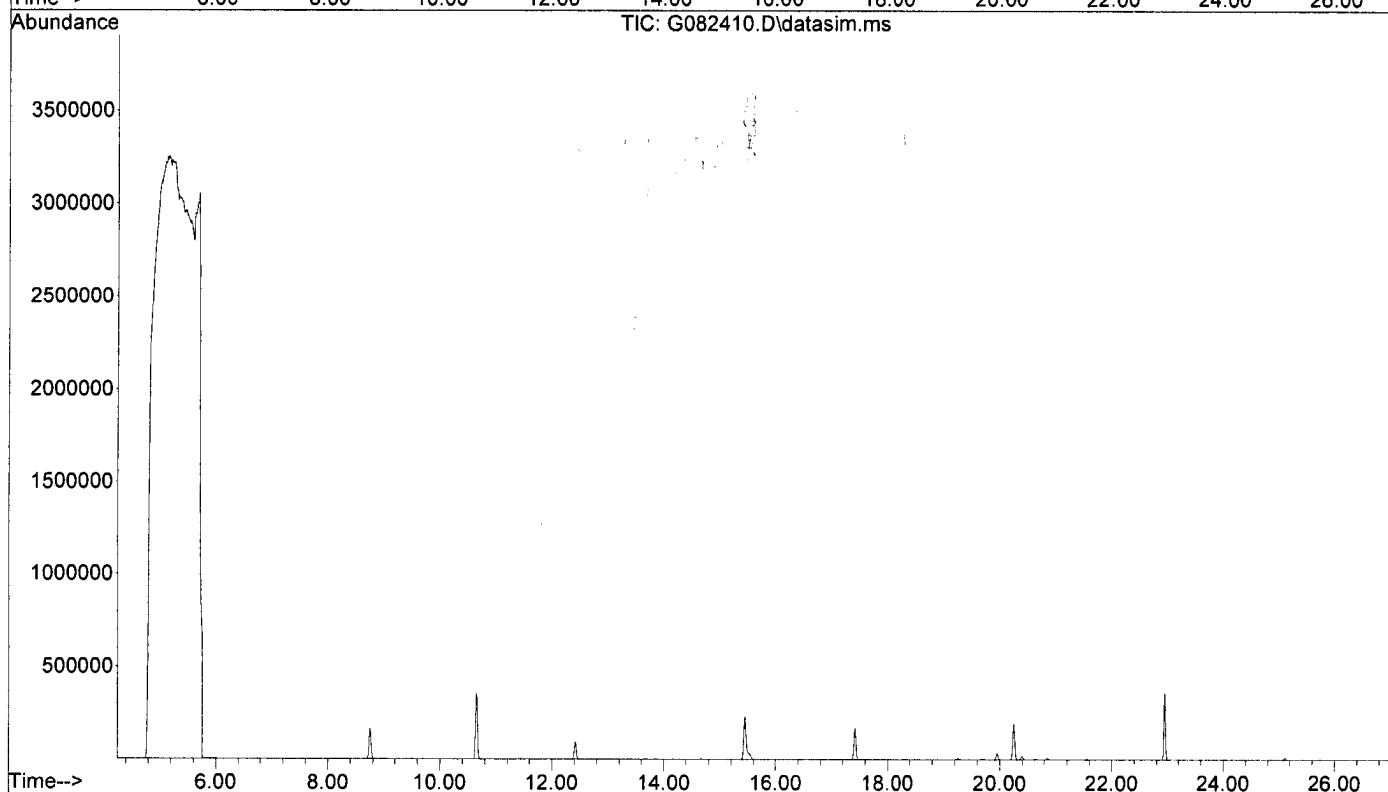
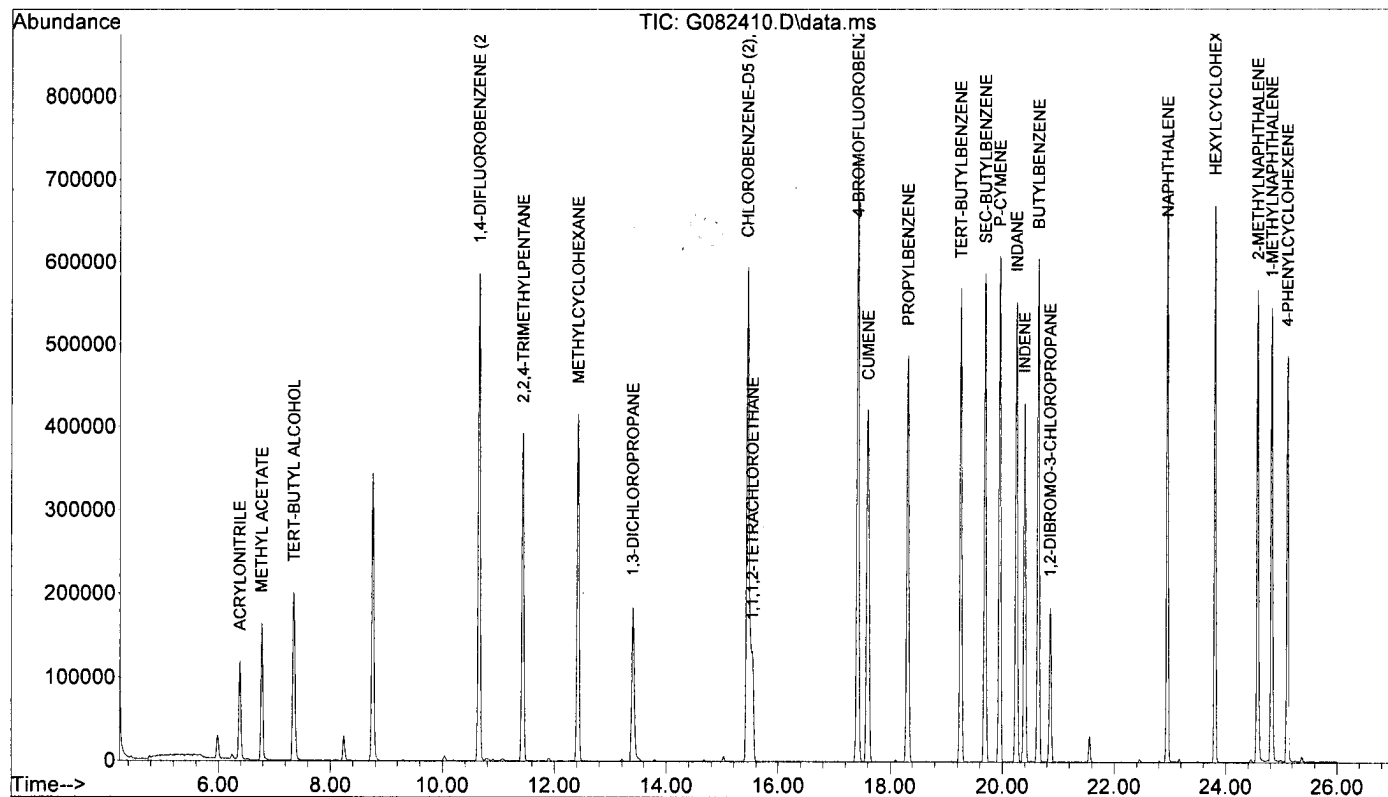
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.646	114	641800	8.00	PPBV	-0.02
7) CHLOROBENZENE-D5 (2)	15.443	54	117170	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.416	95	372767	8.41	PPBV	0.02
Spiked Amount	8.000	Range	70 - 130	Recovery	= 105.13%	
Target Compounds						
						Qvalue
2) ACRYLONITRILE	6.380	53	115931	9.976	PPBV	98
3) METHYL ACETATE	6.780	43	248027	7.054	PPBV	95
4) TERT-BUTYL ALCOHOL	7.344	59	313518	8.393	PPBV	93
5) 2,2,4-TRIMETHYLPENTANE	11.440	57	455940	4.963	PPBV	98
6) METHYLCYCLOHEXANE	12.414	83	223558	5.911	PPBV	95
8) 1,3-DICHLOROPROPANE	13.393	76	198770	5.095	PPBV	98
9) 1,1,1,2-TETRACHLOROETHANE	15.530	131	93705	3.812	PPBV	98
11) CUMENE	17.598	105	565035	5.917	PPBV	100
12) PROPYLBENZENE	18.320	120	151873	5.903	PPBV	93
13) TERT-BUTYLBENZENE	19.258	134	94034	5.396	PPBV	# 91
14) SEC-BUTYLBENZENE	19.693	105	617483	5.426	PPBV	98
15) P-CYMENE	19.953	119	525922	5.539	PPBV	100
16) INDANE	20.249	117	460172	6.302	PPBV	99
17) INDENE	20.396	115	365713	6.419	PPBV	99
18) BUTYLBENZENE	20.648	91	508224	5.346	PPBV	98
19) 1,2-DIBROMO-3-CHLOROPR...	20.857	157	75660	2.870	PPBV	95
20) NAPHTHALENE	22.955	128	684161	5.269	PPBV	99
21) HEXYLCYCLOHEXANE	23.803	83	300478	3.715	PPBV	98
22) 2-METHYLNAPHTHALENE	24.566	142	381231	5.230	PPBV	99
23) 1-METHYLNAPHTHALENE	24.816	142	373853	4.756	PPBV	98
24) 4-PHENYLCYCLOHEXENE	25.105	104	452485	4.307	PPBV	96

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

Data File : C:\msdchem\1\DATA\G082410\G082410.D
Acq On : 24 Aug 2010 7:44 pm
Sample : 25 UG/M3 CCV
Misc : CTWS 2548
Quant Time: Aug 25 09:53:20 2010

Vial: 24
Operator: XC
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\EX082410.M
Quant Title : QUANT FILE FOR TO-14/TO-15
QLast Update : Wed Aug 25 09:53:01 2010
Response via : Initial Calibration
DataAcq Meth:TO15RUN.M



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Instrument ID:	SYSG	Calibration:	1200017
Lab File ID:	G021206.D	Calibration Date:	08/24/10 00:00
Sequence:	S001777	Injection Date:	02/12/12
Lab Sample ID:	S001777-CCV1	Injection Time:	19:43

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	5.00	3.52	0.9919301	0.698114	0.05	-29.6	30
Benzyl chloride	A	5.00	5.56	0.8499213	0.9456461	0.05	11.3	30
Bromodichloromethane	A	5.00	3.94	0.6068467	0.4787949	0.05	-21.1	30
Bromoform	A	5.00	5.27	0.4704248	0.4955606	0.05	5.3	30
Bromomethane	A	5.00	4.29	0.5137459	0.440446	0.05	-14.3	30
2-Butanone (MEK)	A	5.00	3.87	1.576877	1.220796	0.05	-22.6	30
tert-Butyl Alcohol (TBA)	A	2.06	1.68	0.467862	0.3808806	0.05	-18.6	50
Carbon Tetrachloride	A	5.00	4.78	0.4740071	0.4535605	0.05	-4.3	30
Chlorobenzene	A	5.00	4.35	0.9691024	0.8430479	0.05	-13.0	30
Chloroethane	A	5.00	4.30	0.2436821	0.2094028	0.05	-14.1	30
Chloroform	A	5.00	4.58	1.597242	1.462084	0.05	-8.5	30
Chloromethane	A	5.00	4.02	0.4507408	0.3620809	0.05	-19.7	30
Cyclohexane	A	5.00	3.86	0.4185998	0.3231824	0.05	-22.8	30
Dibromochloromethane	A	5.00	4.83	0.5702959	0.5511364	0.05	-3.4	30
1,2-Dibromoethane (EDB)	A	5.00	4.04	0.6212373	0.5018476	0.05	-19.2	30
1,2-Dichlorobenzene	A	5.00	4.47	0.824805	0.7380027	0.05	-10.5	30
1,3-Dichlorobenzene	A	5.00	4.74	0.8705477	0.8251244	0.05	-5.2	30
1,4-Dichlorobenzene	A	5.00	4.58	0.8910381	0.815532	0.05	-8.5	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.14	1.567894	1.611487	0.05	2.8	30
1,1-Dichloroethane	A	5.00	4.18	1.49737	1.251261	0.05	-16.4	30
1,2-Dichloroethane	A	5.00	4.24	1.076954	0.9132375	0.05	-15.2	30
1,1-Dichloroethylene	A	5.00	3.87	1.211692	0.9372692	0.05	-22.6	30
cis-1,2-Dichloroethylene	A	5.00	3.93	1.140275	0.8957821	0.05	-21.4	30
trans-1,2-Dichloroethylene	A	5.00	3.70	1.208532	0.8931454	0.05	-26.1	30
1,2-Dichloropropane	A	5.00	3.59	0.3723186	0.267311	0.05	-28.2	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Instrument ID:	SYSG	Calibration:	1200017
Lab File ID:	G021206.D	Calibration Date:	08/24/10 00:00
Sequence:	S001777	Injection Date:	02/12/12
Lab Sample ID:	S001777-CCV1	Injection Time:	19:43

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
cis-1,3-Dichloropropene	A	5.00	3.91	0.4910029	0.3840158	0.05	-21.8	30
trans-1,3-Dichloropropene	A	5.00	3.55	0.4597172	0.3262	0.05	-29.0	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.66	1.433844	1.336075	0.05	-6.8	30
1,4-Dioxane	A	5.00	3.74	0.2208977	0.165351	0.05	-25.1	30
Ethanol	A	5.00	2.71	0.1637235	8.884035E-02	0.05	-45.7	50
Ethylbenzene	A	5.00	4.30	1.520996	1.307127	0.05	-14.1	30
Hexachlorobutadiene	A	5.00	4.04	0.538906	0.4358249	0.05	-19.1	30
Hexane	A	5.00	4.45	0.8183708	0.7288884	0.05	-10.9	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.04	2.018342	1.631819	0.05	-19.2	30
Methylene Chloride	A	5.00	4.41	0.8716831	0.7691031	0.05	-11.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	3.41	0.7454366	0.5081762	0.05	-31.8	30 *
Styrene	A	5.00	4.42	0.8778577	0.7757509	0.05	-11.6	30
1,1,2,2-Tetrachloroethane	A	5.00	4.26	0.9145309	0.7797283	0.05	-14.7	30
Tetrachloroethylene	A	5.00	4.16	0.5193439	0.4324857	0.05	-16.7	30
Toluene	A	5.00	4.16	1.204989	1.002995	0.05	-16.8	30
1,2,4-Trichlorobenzene	A	5.00	3.84	0.5935905	0.456156	0.05	-23.2	30
1,1,1-Trichloroethane	A	5.00	3.96	0.5355351	0.4235563	0.05	-20.9	30
1,1,2-Trichloroethane	A	5.00	4.22	0.4163953	0.3510317	0.05	-15.7	30
Trichloroethylene	A	5.00	3.88	0.4043424	0.3135393	0.05	-22.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.99	1.24975	1.247797	0.05	-0.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.80	1.416589	1.360178	0.05	-4.0	30
1,2,4-Trimethylbenzene	A	5.00	4.52	1.301536	1.177269	0.05	-9.5	30
1,3,5-Trimethylbenzene	A	5.00	4.68	1.310815	1.2275	0.05	-6.4	30

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CONTINUING CALIBRATION VERIFICATION

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Instrument ID:	SYSG	Calibration:	1200017
Lab File ID:	G021204.D	Calibration Date:	08/24/10 00:00
Sequence:	S001777	Injection Date:	02/12/12
Lab Sample ID:	S001777-CCV1	Injection Time:	19:43

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,2,4-Trimethylpentane	A	1.34	0.909	1.145207	0.776642	0.05	-32.2	30	*
Vinyl Chloride	A	5.00	4.13	0.5346039	0.4418052	0.05	-17.4	30	
m&p-Xylene	A	10.0	9.13	1.202997	1.098648	0.05	-8.7	30	
o-Xylene	A	5.00	4.46	1.196773	1.06703	0.05	-10.8	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data File : C:\msdchem\1\data\G021212\G021206.D
 Acq On : 12 Feb 2012 8:59 pm
 Sample : 5.0PPBV CCV
 Misc : CTWS-2642
 Quant Time: Feb 13 09:08:28 2012

Vial: 22
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

649

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.777	49	313119	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	973464	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.430	117	850011	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	480680	8.30	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	103.75%
Target Compounds						
						Qvalue
2) PROPENE	4.469	41	93619	4.560	PPBV	98
3) DICHLORODIFLUOROMETHANE	4.542	85	315367	5.139	PPBV	99
4) CHLOROMETHANE	4.697	50	70859	4.017	PPBV	98
5) FREON 114	4.804	85	261469	4.659	PPBV	89
6) VINYL CHLORIDE	4.918	62	86461	4.132	PPBV	99
7) 1,3-BUTADIENE	5.045	54	57578	4.020	PPBV	96
8) BROMOMETHANE	5.300	94	86195	4.287	PPBV	98
9) CHLOROETHANE	5.461	64	40980	4.297	PPBV	98
10) ACROLEIN	5.885	56	23652	3.221	PPBV	96
11) ACETONE	6.007	43	123812	4.066	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.154	101	244193	4.992	PPBV	100
13) ETHANOL	5.568	45	17386	2.713	PPBV	97
14) 1,1-DICHLOROETHENE	6.728	61	183423	3.868	PPBV	91
15) METHYLENE CHLORIDE	6.814	49	150513	4.412	PPBV	81
16) FREON 113	7.075	101	266186	4.801	PPBV	91
17) CARBON DISULFIDE	7.110	76	357985	4.109	PPBV	97
18) TRANS-1,2-DICHLOROETHENE	7.674	61	174788	3.695	PPBV	86
19) 1,1-DICHLOROETHANE	7.865	63	244871	4.178	PPBV	99
20) MTBE	7.943	73	319346	4.042	PPBV	96
21) IPA	6.241	45	106307	3.318	PPBV	81
22) 2-BUTANONE(MEK)	8.239	43	238909	3.871	PPBV	86
23) CIS-1,2-DICHLOROETHENE	8.629	61	175304	3.928	PPBV	86
24) VINYL ACETATE	7.987	43	360564	4.008	PPBV	96
25) HEXANE	8.847	41	142643	4.453	PPBV	89
26) ETHYL ACETATE	8.847	61	45963	4.215	PPBV	91
27) CHLOROFORM	8.907	83	286129	4.577	PPBV	99
28) TETRAHYDROFURAN	9.325	71	60625	4.288	PPBV	98
29) 1,2-DICHLOROETHANE	9.616	62	178720	4.240	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.881	97	257698	3.955	PPBV	98
32) BENZENE	10.330	78	424743	3.519	PPBV	94
33) CARBON TETRACHLORIDE	10.480	117	275953	4.784	PPBV	100
34) CYCLOHEXANE	10.621	84	196629	3.860	PPBV	79
35) 1,2-DICHLOROPROPANE	11.154	63	162636	3.590	PPBV	96
36) BROMODICHLOROMETHANE	11.335	83	291306	3.945	PPBV	99
37) TRICHLOROETHENE	11.398	95	190762	3.877	PPBV	90
38) 1,4-DIOXANE	11.413	88	100602	3.743	PPBV	90
39) METHYLMETHACRYLATE	11.594	69	153060	3.932	PPBV	81
40) HEPTANE	11.712	57	141647	3.908	PPBV	90
41) MIBK	12.357	43	309182	3.409	PPBV	90
42) CIS-1,3-DICHLOROPROPENE	12.286	75	233641	3.911	PPBV	93
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	198465	3.548	PPBV	95
45) 1,1,2-TRICHLOROETHANE	13.049	97	186488	4.215	PPBV	93
46) TOLUENE	13.380	91	532848	4.162	PPBV	100
47) 2-HEXANONE(MBK)	13.684	43	294389	3.558	PPBV	92
48) DIBROMOCHLOROMETHANE	13.831	129	292795	4.832	PPBV	99
49) 1,2-DIBROMOETHANE	14.127	107	266610	4.039	PPBV	99
50) TETRACHLOROETHENE	14.683	166	229761	4.164	PPBV	97
51) CHLOROBENZENE	15.491	112	447875	4.350	PPBV	93
52) ETHYLBENZENE	15.960	91	694420	4.297	PPBV	96
53) M/P-XYLENE	16.186	91	1167329	9.133	PPBV	99
54) BROMOFORM	16.247	173	263270	5.267	PPBV	100
55) STYRENE	16.638	104	412123	4.418	PPBV	95
56) O-XYLENE	16.777	91	566867	4.458	PPBV	95
57) 1,1,2,2-TETRACHLOROETHANE	16.742	83	414236	4.263	PPBV	100
59) 4-ETHYLTOLUENE	18.506	105	756528	4.491	PPBV	97

Data File : C:\msdchem\1\data\G021212\G021206.D
 Acq On : 12 Feb 2012 8:59 pm
 Sample : 5.0PPBV CCV
 Misc : CTWS-2642
 Quant Time: Feb 13 09:08:28 2012

Vial: 22
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

650

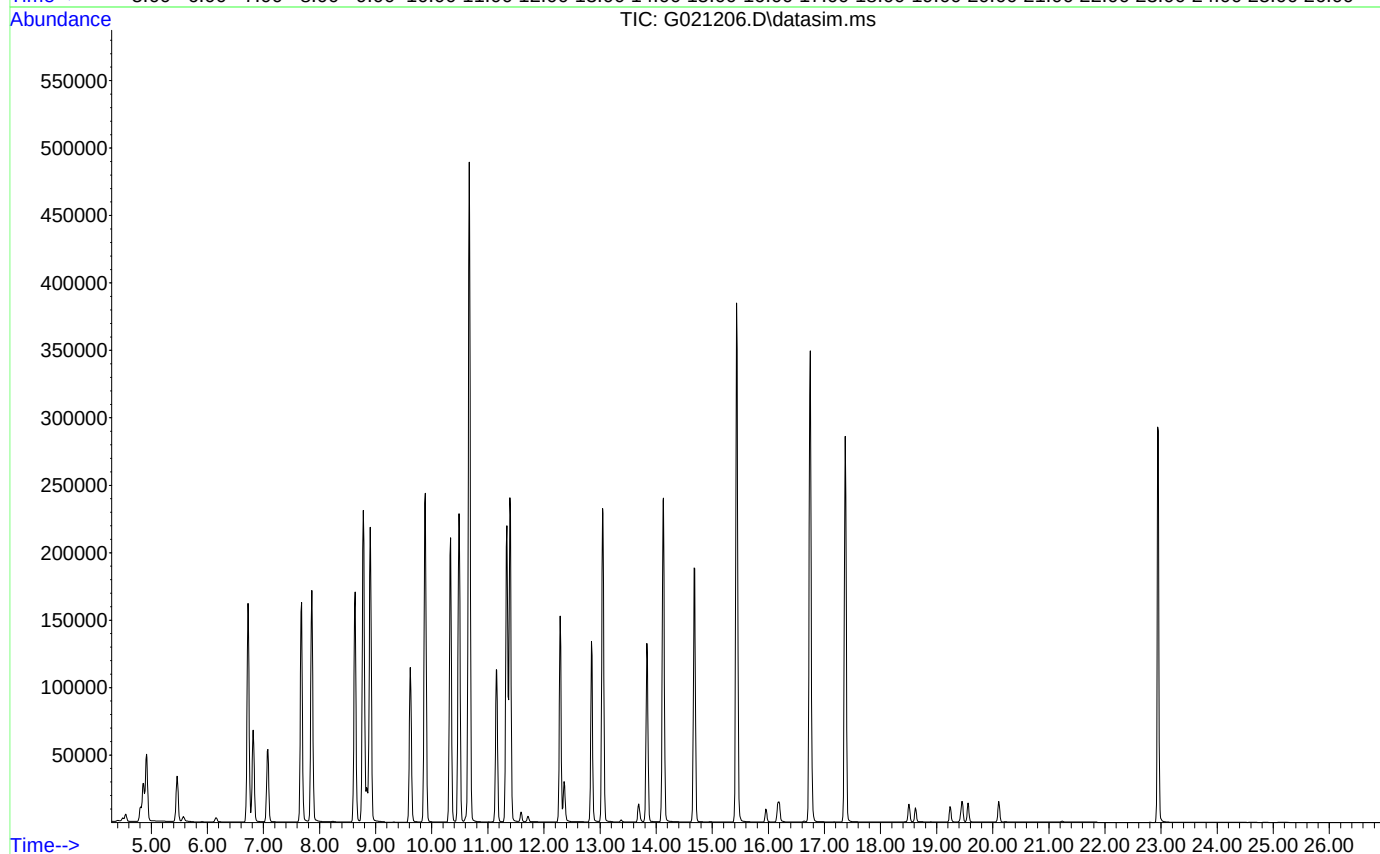
Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 1,3,5-TRIMETHYLBENZENE	18.619	105	652118	4.682	PPBV	96
61) 1,2,4-TRIMETHYLBENZENE	19.236	105	625432	4.523	PPBV	96
62) 1,3-DICHLOROBENZENE	19.453	146	438353	4.739	PPBV	98
63) BENZYL CHLORIDE	19.427	91	502381	5.563	PPBV	97
64) 1,4-DICHLOROBENZENE	19.558	146	433257	4.576	PPBV	98
65) 1,2-DICHLOROBENZENE	20.105	146	392069	4.474	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.794	180	242336	3.842	PPBV	100
67) NAPHTHALENE	22.946	128	577493	3.166	PPBV	98
68) HEXACHLOROBUTADIENE	23.491	225	231535	4.044	PPBV	97

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

Vial: 22
Operator: TPH
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



Data File : C:\msdchem\1\data\G021212\G021204.D
 Acq On : 12 Feb 2012 7:43 pm
 Sample : 6.25ug-m3 CCV
 Misc : CTWS-2645
 Quant Time: Feb 12 20:21:02 2012

Vial: 24
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.679	114	931811	8.00	PPBV	0.03
7) CHLOROBENZENE-D5 (2)	15.447	54	168668	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.385	95	599082	9.39	PPBV	-0.03
Spiked Amount	8.000	Range	70 - 130	Recovery	=	117.38%
Target Compounds						
						Qvalue
2) ACRYLONITRILE	6.432	53	50783	3.010	PPBV	99
3) METHYL ACETATE	6.823	43	97388	1.907	PPBV	93
4) TERT-BUTYL ALCOHOL	7.031	59	91389	1.683	PPBV	80
5) 2,2,4-TRIMETHYLPENTANE	11.468	57	121217	0.909	PPBV	99
6) METHYLCYCLOHEXANE	12.435	83	47186	0.859	PPBV	99
8) 1,3-DICHLOROPROPANE	13.414	76	72008	1.283	PPBV	92
9) 1,1,1,2-TETRACHLOROETHANE	15.482	131	35709	1.009	PPBV	99
11) CUMENE	17.585	105	167408	1.218	PPBV	99
12) PROPYLBENZENE	18.298	120	43609	1.178	PPBV	96
13) TERT-BUTYLBENZENE	19.236	134	25586	1.020	PPBV #	92
14) SEC-BUTYLBENZENE	19.671	105	165657	1.011	PPBV	100
15) P-CYMENE	19.931	119	132443	0.969	PPBV	99
16) INDANE	20.227	117	121562	1.157	PPBV	92
17) INDENE	20.374	115	62737	0.765	PPBV	99
18) BUTYLBENZENE	20.635	91	148478	1.085	PPBV	99
19) 1,2-DIBROMO-3-CHLOROPR...	20.844	157	18117	0.477	PPBV	94
20) HEXYLCYCLOHEXANE	23.800	83	66614	0.572	PPBV	97
21) 2-METHYLNAPHTHALENE	24.570	142	18274	0.174	PPBV	100
22) 1-METHYLNAPHTHALENE	24.820	142	24735	0.219	PPBV	99
23) 4-PHENYLCYCLOHEXENE	25.103	104	21742	0.144	PPBV	98

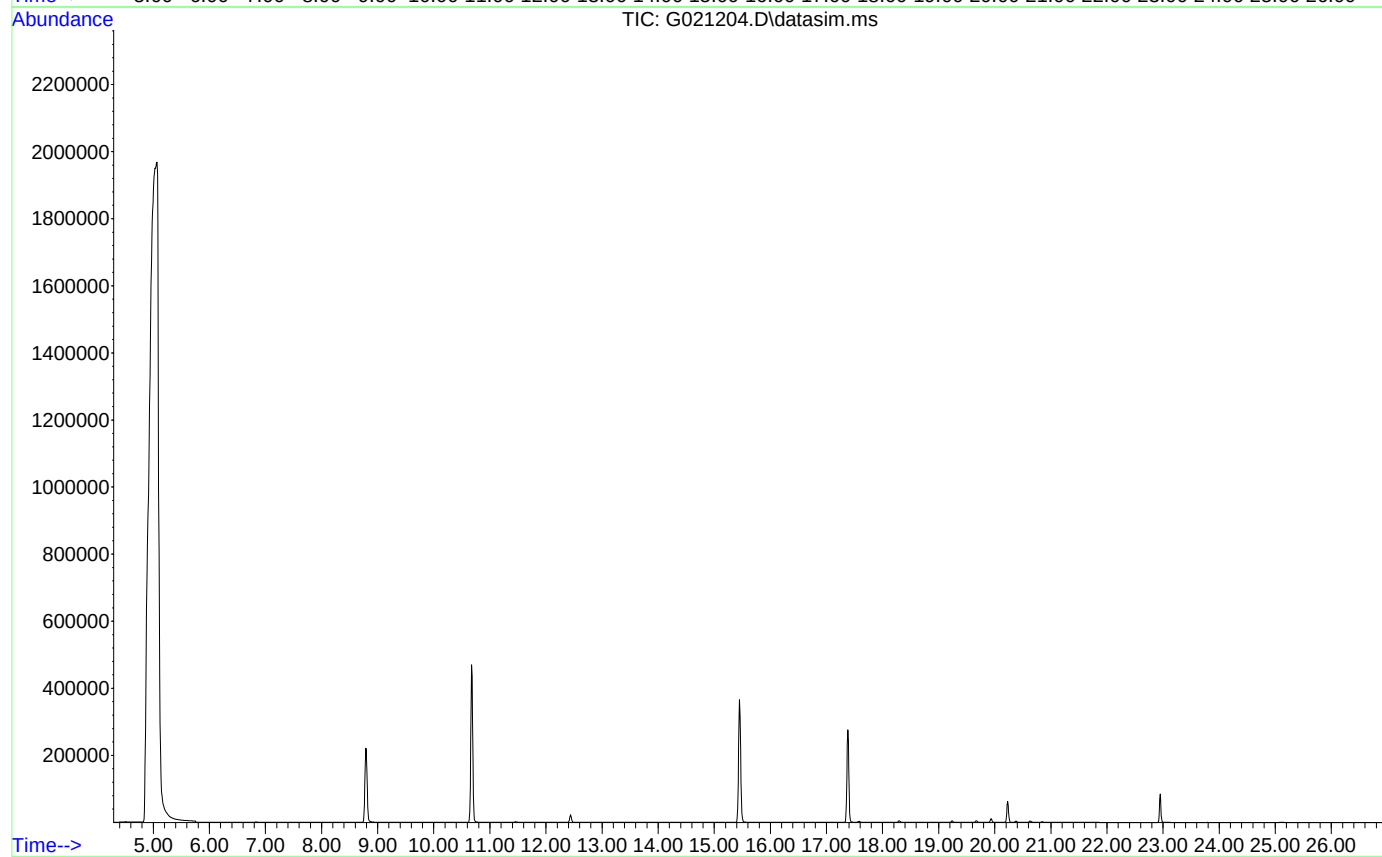
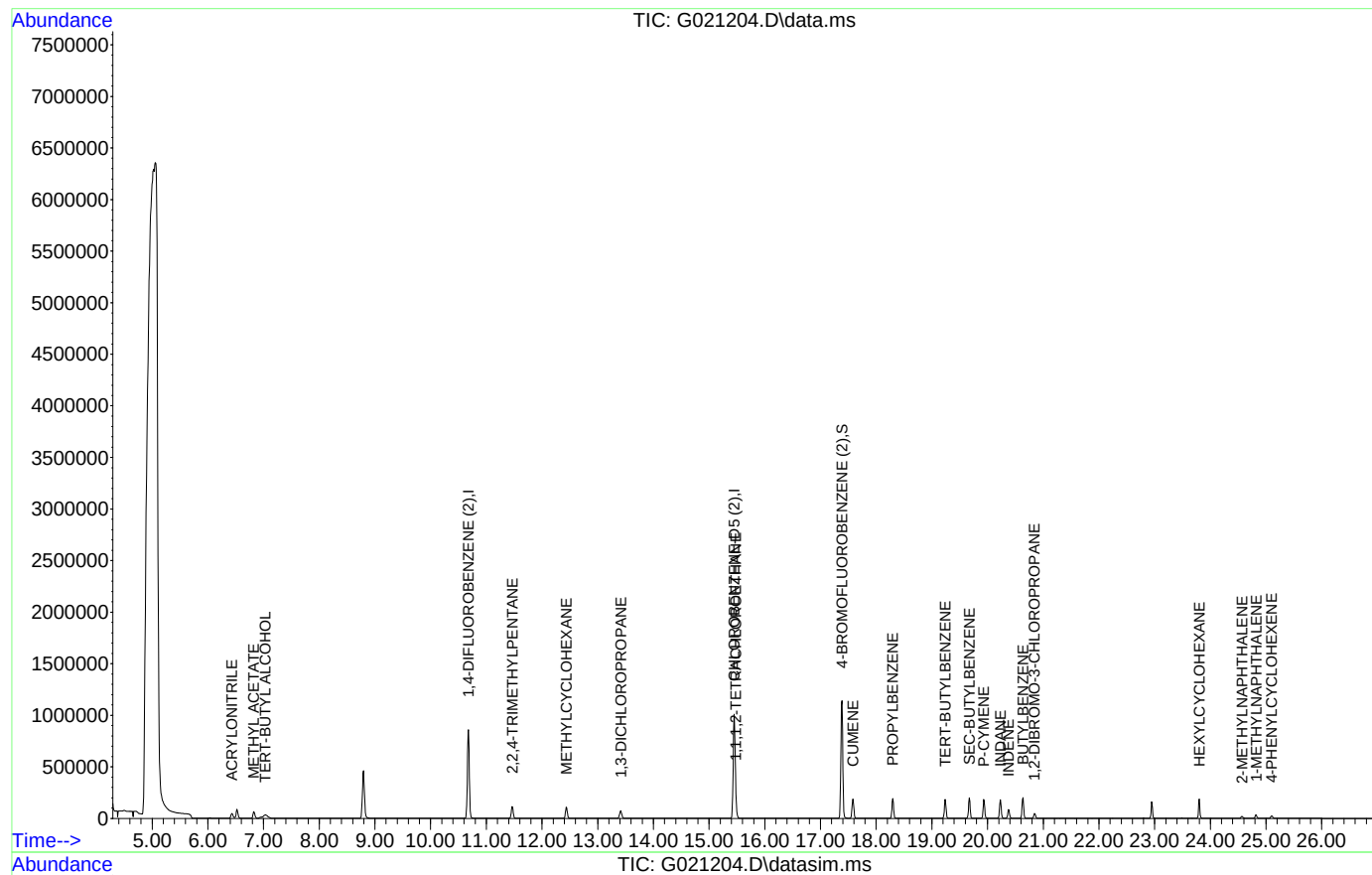
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021204.D
Acq On : 12 Feb 2012 7:43 pm
Sample : 6.25ug-m3 CCV
Misc : CTWS-2645
Quant Time: Feb 12 20:21:02 2012

Vial: 24
Operator: TPH
Inst : SYSG
Multiplr: 1.00

653

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Instrument ID:	SYSG	Calibration:	1200017
Lab File ID:	G021402.D	Calibration Date:	08/24/10 00:00
Sequence:	S001781	Injection Date:	02/14/12
Lab Sample ID:	S001781-CCV1	Injection Time:	11:44

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	5.00	3.81	0.9919301	0.7550508	0.05	-23.9	30
Benzyl chloride	A	5.00	5.94	0.8499213	1.008833	0.05	18.7	30
Bromodichloromethane	A	5.00	4.08	0.6068467	0.495253	0.05	-18.4	30
Bromoform	A	5.00	5.71	0.4704248	0.5372184	0.05	14.2	30
Bromomethane	A	5.00	4.42	0.5137459	0.4541514	0.05	-11.6	30
2-Butanone (MEK)	A	5.00	4.27	1.576877	1.346581	0.05	-14.6	30
tert-Butyl Alcohol (TBA)	A	2.06	1.50	0.467862	0.3401565	0.05	-27.3	50
Carbon Tetrachloride	A	5.00	4.93	0.4740071	0.4672733	0.05	-1.4	30
Chlorobenzene	A	5.00	4.58	0.9691024	0.886886	0.05	-8.5	30
Chloroethane	A	5.00	4.47	0.2436821	0.2177515	0.05	-10.6	30
Chloroform	A	5.00	4.91	1.597242	1.569304	0.05	-1.7	30
Chloromethane	A	5.00	4.09	0.4507408	0.3687374	0.05	-18.2	30
Cyclohexane	A	5.00	4.12	0.4185998	0.3449922	0.05	-17.6	30
Dibromochloromethane	A	5.00	4.96	0.5702959	0.5662989	0.05	-0.7	30
1,2-Dibromoethane (EDB)	A	5.00	4.22	0.6212373	0.5240423	0.05	-15.6	30
1,2-Dichlorobenzene	A	5.00	4.84	0.824805	0.7985081	0.05	-3.2	30
1,3-Dichlorobenzene	A	5.00	4.96	0.8705477	0.8638952	0.05	-0.8	30
1,4-Dichlorobenzene	A	5.00	4.83	0.8910381	0.8604083	0.05	-3.4	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.25	1.567894	1.645461	0.05	4.9	30
1,1-Dichloroethane	A	5.00	4.60	1.49737	1.377541	0.05	-8.0	30
1,2-Dichloroethane	A	5.00	4.51	1.076954	0.9710606	0.05	-9.8	30
1,1-Dichloroethylene	A	5.00	4.35	1.211692	1.0545	0.05	-13.0	30
cis-1,2-Dichloroethylene	A	5.00	4.45	1.140275	1.014547	0.05	-11.0	30
trans-1,2-Dichloroethylene	A	5.00	4.30	1.208532	1.040362	0.05	-13.9	30
1,2-Dichloropropane	A	5.00	3.77	0.3723186	0.2804856	0.05	-24.7	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Instrument ID:	SYSG	Calibration:	1200017
Lab File ID:	G021402.D	Calibration Date:	08/24/10 00:00
Sequence:	S001781	Injection Date:	02/14/12
Lab Sample ID:	S001781-CCV1	Injection Time:	11:44

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
cis-1,3-Dichloropropene	A	5.00	4.32	0.4910029	0.423808	0.05	-13.7	30
trans-1,3-Dichloropropene	A	5.00	3.88	0.4597172	0.3568581	0.05	-22.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.66	1.433844	1.335004	0.05	-6.9	30
1,4-Dioxane	A	5.00	4.13	0.2208977	0.1822913	0.05	-17.5	30
Ethanol	A	5.00	3.09	0.1637235	0.1010376	0.05	-38.3	50
Ethylbenzene	A	5.00	4.62	1.520996	1.405282	0.05	-7.6	30
Hexachlorobutadiene	A	5.00	4.67	0.538906	0.5036334	0.05	-6.5	30
Hexane	A	5.00	4.67	0.8183708	0.7644791	0.05	-6.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.75	2.018342	1.918473	0.05	-4.9	30
Methylene Chloride	A	5.00	4.63	0.8716831	0.8077303	0.05	-7.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	3.53	0.7454366	0.5261612	0.05	-29.4	30
Styrene	A	5.00	4.87	0.8778577	0.8557815	0.05	-2.5	30
1,1,2,2-Tetrachloroethane	A	5.00	4.30	0.9145309	0.7867789	0.05	-14.0	30
Tetrachloroethylene	A	5.00	4.61	0.5193439	0.4790769	0.05	-7.8	30
Toluene	A	5.00	4.39	1.204989	1.058361	0.05	-12.2	30
1,2,4-Trichlorobenzene	A	5.00	4.36	0.5935905	0.5174558	0.05	-12.8	30
1,1,1-Trichloroethane	A	5.00	4.15	0.5355351	0.4440136	0.05	-17.1	30
1,1,2-Trichloroethane	A	5.00	4.36	0.4163953	0.36326	0.05	-12.8	30
Trichloroethylene	A	5.00	4.11	0.4043424	0.3325345	0.05	-17.8	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.67	1.24975	1.168025	0.05	-6.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.21	1.416589	1.477313	0.05	4.3	30
1,2,4-Trimethylbenzene	A	5.00	4.83	1.301536	1.257797	0.05	-3.4	30
1,3,5-Trimethylbenzene	A	5.00	4.85	1.310815	1.272662	0.05	-2.9	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Instrument ID:	SYSG	Calibration:	1200017
Lab File ID:	G021406.D	Calibration Date:	08/24/10 00:00
Sequence:	S001781	Injection Date:	02/14/12
Lab Sample ID:	S001781-CCV1	Injection Time:	11:44

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,2,4-Trimethylpentane	A	1.34	0.815	1.145207	0.6966271	0.05	-39.2	30	*
Vinyl Chloride	A	5.00	4.27	0.5346039	0.4561553	0.05	-14.7	30	
m&p-Xylene	A	10.0	9.48	1.202997	1.141018	0.05	-5.2	30	
o-Xylene	A	5.00	4.62	1.196773	1.105581	0.05	-7.6	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data File : C:\msdchem\1\data\G021412\G021402.D
 Acq On : 14 Feb 2012 11:44 am
 Sample : 5.0PPBV CCV
 Misc : CTWS-2642
 Quant Time: Feb 14 12:18:26 2012

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

657

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.777	49	333753	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.663	114	1094907	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.430	117	995254	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.368	174	580293	8.56	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	107.00%
Target Compounds						
						Qvalue
2) PROPENE	4.475	41	112162	5.125	PPBV	99
3) DICHLORODIFLUOROMETHANE	4.549	85	343236	5.247	PPBV	99
4) CHLOROMETHANE	4.703	50	76917	4.090	PPBV	99
5) FREON 114	4.804	85	278476	4.655	PPBV	88
6) VINYL CHLORIDE	4.918	62	95152	4.266	PPBV	98
7) 1,3-BUTADIENE	5.052	54	67681	4.433	PPBV	96
8) BROMOMETHANE	5.300	94	94734	4.420	PPBV	99
9) CHLOROETHANE	5.461	64	45422	4.468	PPBV	97
10) ACROLEIN	5.885	56	28772	3.676	PPBV	99
11) ACETONE	6.007	43	137168	4.226	PPBV	94
12) TRICHLOROFLUOROMETHANE	6.154	101	243645	4.673	PPBV	100
13) ETHANOL	5.574	45	21076	3.086	PPBV	98
14) 1,1-DICHLOROETHENE	6.728	61	219964	4.351	PPBV	89
15) METHYLENE CHLORIDE	6.814	49	168489	4.633	PPBV	# 75
16) FREON 113	7.075	101	308161	5.214	PPBV	88
17) CARBON DISULFIDE	7.110	76	427081	4.599	PPBV	96
18) TRANS-1,2-DICHLOROETHENE	7.674	61	217015	4.304	PPBV	83
19) 1,1-DICHLOROETHANE	7.856	63	287349	4.600	PPBV	99
20) MTBE	7.943	73	400185	4.753	PPBV	95
21) IPA	6.233	45	123300	3.610	PPBV	88
22) 2-BUTANONE(MEK)	8.230	43	280891	4.270	PPBV	84
23) CIS-1,2-DICHLOROETHENE	8.629	61	211630	4.449	PPBV	82
24) VINYL ACETATE	7.987	43	433581	4.521	PPBV	95
25) HEXANE	8.846	41	159467	4.671	PPBV	85
26) ETHYL ACETATE	8.838	61	53852	4.633	PPBV	88
27) CHLOROFORM	8.899	83	327350	4.913	PPBV	99
28) TETRAHYDROFURAN	9.317	71	75627	5.018	PPBV	99
29) 1,2-DICHLOROETHANE	9.616	62	202559	4.508	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.881	97	303846	4.146	PPBV	97
32) BENZENE	10.330	78	516694	3.806	PPBV	92
33) CARBON TETRACHLORIDE	10.480	117	319763	4.929	PPBV	100
34) CYCLOHEXANE	10.621	84	236084	4.121	PPBV	# 75
35) 1,2-DICHLOROPROPANE	11.154	63	191941	3.767	PPBV	96
36) BROMODICHLOROMETHANE	11.335	83	338910	4.081	PPBV	99
37) TRICHLOROETHENE	11.390	95	227559	4.112	PPBV	88
38) 1,4-DIOXANE	11.405	88	124745	4.126	PPBV	87
39) METHYLMETHACRYLATE	11.586	69	187362	4.280	PPBV	# 78
40) HEPTANE	11.712	57	166053	4.073	PPBV	87
41) MIBK	12.357	43	360061	3.529	PPBV	87
42) CIS-1,3-DICHLOROPROPENE	12.286	75	290019	4.316	PPBV	92
43) TRANS-1,3-DICHLOROPROPENE	12.844	75	244204	3.881	PPBV	92
45) 1,1,2-TRICHLOROETHANE	13.041	97	225960	4.362	PPBV	91
46) TOLUENE	13.379	91	658336	4.392	PPBV	100
47) 2-HEXANONE(MBK)	13.684	43	346994	3.582	PPBV	90
48) DIBROMOCHLOROMETHANE	13.831	129	352257	4.965	PPBV	99
49) 1,2-DIBROMOETHANE	14.127	107	325972	4.218	PPBV	99
50) TETRACHLOROETHENE	14.674	166	298002	4.612	PPBV	94
51) CHLOROBENZENE	15.491	112	551673	4.576	PPBV	92
52) ETHYLBENZENE	15.960	91	874133	4.620	PPBV	96
53) M/P-XYLENE	16.186	91	1419503	9.485	PPBV	99
54) BROMOFORM	16.247	173	334168	5.710	PPBV	99
55) STYRENE	16.638	104	532325	4.874	PPBV	92
56) O-XYLENE	16.777	91	687709	4.619	PPBV	95
57) 1,1,2,2-TETRACHLOROETHANE	16.742	83	489403	4.302	PPBV	99
59) 4-ETHYLTOLUENE	18.506	105	942470	4.779	PPBV	97

Data File : C:\msdchem\1\data\G021412\G021402.D
 Acq On : 14 Feb 2012 11:44 am
 Sample : 5.0PPBV CCV
 Misc : CTWS-2642
 Quant Time: Feb 14 12:18:26 2012

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

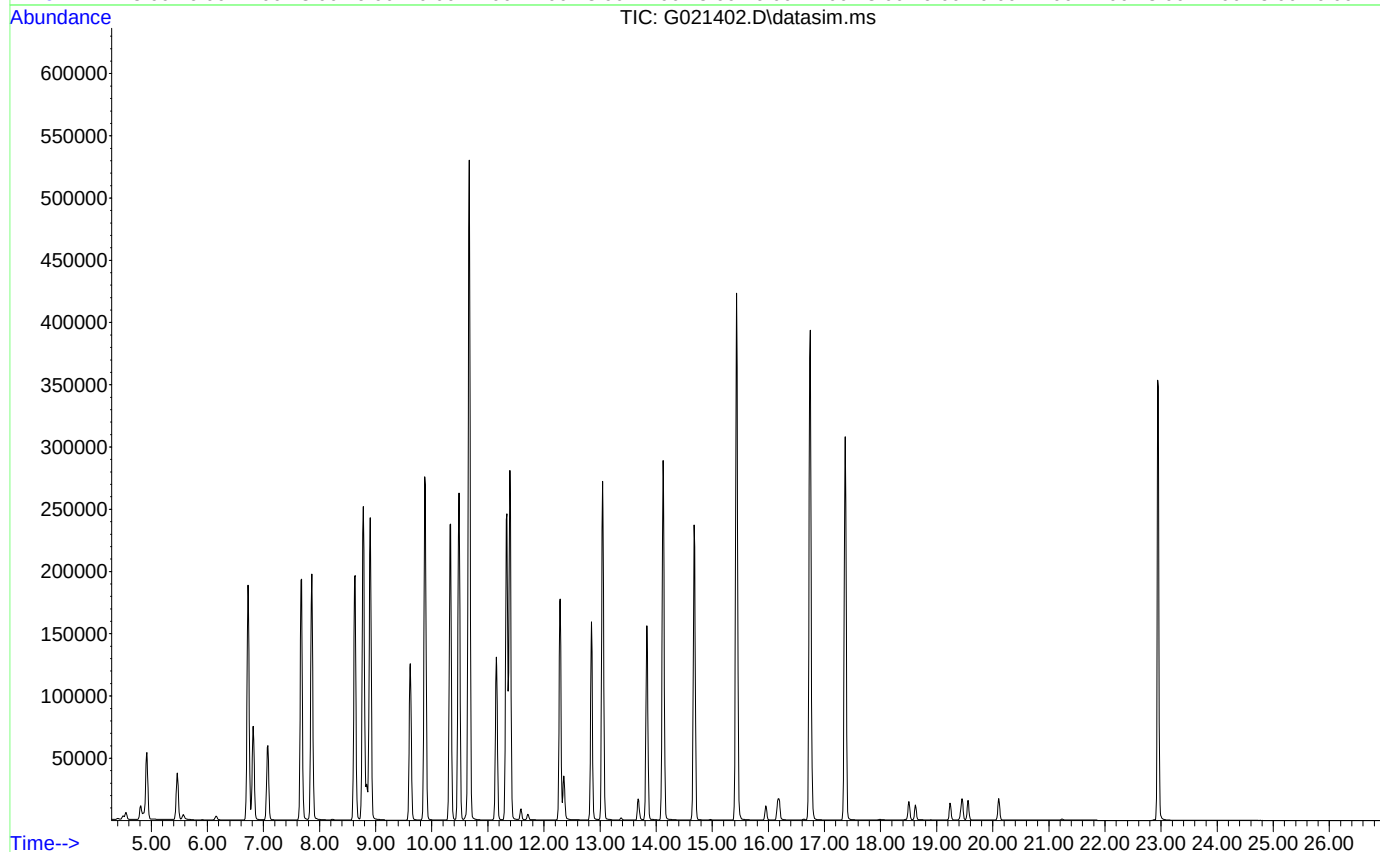
Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 1,3,5-TRIMETHYLBENZENE	18.619	105	791639	4.854	PPBV	96
61) 1,2,4-TRIMETHYLBENZENE	19.236	105	782392	4.832	PPBV	96
62) 1,3-DICHLOROBENZENE	19.453	146	537372	4.962	PPBV	98
63) BENZYL CHLORIDE	19.427	91	627528	5.935	PPBV	96
64) 1,4-DICHLOROBENZENE	19.558	146	535203	4.828	PPBV	98
65) 1,2-DICHLOROBENZENE	20.105	146	496699	4.841	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.794	180	321875	4.359	PPBV	100
67) NAPHTHALENE	22.946	128	743656	3.481	PPBV	98
68) HEXACHLOROBUTADIENE	23.491	225	313277	4.673	PPBV	95

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

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



7 - FORM VII**CONTINUING CALIBRATION VERIFICATION****EPA TO-15**

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Instrument ID:	SYSG	Calibration:	1200017
Lab File ID:	G021503.D	Calibration Date:	08/24/10 00:00
Sequence:	S001786	Injection Date:	02/15/12
Lab Sample ID:	S001786-CCV1	Injection Time:	13:15

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethanol	A	5.00	3.82	0.1637235	0.1250692	0.05	-23.6	50

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data File : C:\msdchem\1\data\G021512\G021503.D
 Acq On : 15 Feb 2012 1:15 pm
 Sample : 5.0PPBV CCV
 Misc : CTWS-2642
 Quant Time: Feb 15 14:04:38 2012

Vial: 22
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

661

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	292830	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	930814	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	826626	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	479127	8.51	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	106.38%
Target Compounds						
						Qvalue
2) PROPENE	4.469	41	90213	4.698	PPBV	98
3) DICHLORODIFLUOROMETHANE	4.542	85	319766	5.572	PPBV	99
4) CHLOROMETHANE	4.703	50	87509	5.304	PPBV	99
5) FREON 114	4.810	85	303658	5.786	PPBV	91
6) VINYL CHLORIDE	4.918	62	104564	5.343	PPBV	98
7) 1,3-BUTADIENE	5.052	54	69537	5.191	PPBV	97
8) BROMOMETHANE	5.306	94	99592	5.296	PPBV	99
9) CHLOROETHANE	5.467	64	50379	5.648	PPBV	98
10) ACROLEIN	5.903	56	28399	4.136	PPBV	97
11) ACETONE	6.024	43	137405	4.825	PPBV	98
12) TRICHLOROFLUOROMETHANE	6.163	101	270619	5.916	PPBV	99
13) ETHANOL	5.608	45	22890	3.820	PPBV	99
14) 1,1-DICHLOROETHENE	6.736	61	184255	4.154	PPBV	90
15) METHYLENE CHLORIDE	6.823	49	147702	4.629	PPBV	77
16) FREON 113	7.084	101	260271	5.019	PPBV	90
17) CARBON DISULFIDE	7.118	76	349434	4.289	PPBV	97
18) TRANS-1,2-DICHLOROETHENE	7.683	61	180740	4.086	PPBV	85
19) 1,1-DICHLOROETHANE	7.874	63	244772	4.466	PPBV	99
20) MTBE	7.961	73	329474	4.460	PPBV	96
21) IPA	6.276	45	120024	4.006	PPBV	86
22) 2-BUTANONE(MEK)	8.247	43	236497	4.097	PPBV	86
23) CIS-1,2-DICHLOROETHENE	8.638	61	173110	4.148	PPBV	85
24) VINYL ACETATE	7.995	43	361048	4.291	PPBV	96
25) HEXANE	8.855	41	137776	4.599	PPBV	88
26) ETHYL ACETATE	8.855	61	44736	4.387	PPBV	92
27) CHLOROFORM	8.907	83	280713	4.801	PPBV	100
28) TETRAHYDROFURAN	9.342	71	59501	4.500	PPBV	99
29) 1,2-DICHLOROETHANE	9.624	62	174775	4.434	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.889	97	257690	4.136	PPBV	97
32) BENZENE	10.338	78	419823	3.638	PPBV	93
33) CARBON TETRACHLORIDE	10.488	117	272941	4.949	PPBV	99
34) CYCLOHEXANE	10.629	84	192502	3.952	PPBV	# 78
35) 1,2-DICHLOROPROPANE	11.162	63	158434	3.657	PPBV	96
36) BROMODICHLOROMETHANE	11.342	83	286656	4.060	PPBV	100
37) TRICHLOROETHENE	11.397	95	185988	3.953	PPBV	89
38) 1,4-DIOXANE	11.429	88	98493	3.832	PPBV	89
39) METHYLMETHACRYLATE	11.602	69	150844	4.053	PPBV	# 79
40) HEPTANE	11.720	57	136787	3.947	PPBV	89
41) MIBK	12.380	43	298264	3.439	PPBV	88
42) CIS-1,3-DICHLOROPROPENE	12.294	75	232491	4.070	PPBV	94
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	200829	3.755	PPBV	94
45) 1,1,2-TRICHLOROETHANE	13.056	97	182933	4.252	PPBV	93
46) TOLUENE	13.388	91	526644	4.230	PPBV	100
47) 2-HEXANONE(MBK)	13.710	43	285997	3.554	PPBV	91
48) DIBROMOCHLOROMETHANE	13.840	129	288288	4.892	PPBV	100
49) 1,2-DIBROMOETHANE	14.135	107	263916	4.111	PPBV	99
50) TETRACHLOROETHENE	14.683	166	233669	4.354	PPBV	96
51) CHLOROBENZENE	15.491	112	442051	4.415	PPBV	93
52) ETHYLBENZENE	15.960	91	686791	4.370	PPBV	97
53) M/P-XYLENE	16.195	91	1149399	9.247	PPBV	99
54) BROMOFORM	16.256	173	265263	5.457	PPBV	100
55) STYRENE	16.638	104	406859	4.485	PPBV	95
56) O-XYLENE	16.786	91	563521	4.557	PPBV	95
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	400457	4.238	PPBV	99
59) 4-ETHYLTOLUENE	18.506	105	743523	4.539	PPBV	97

Data File : C:\msdchem\1\data\G021512\G021503.D
Acq On : 15 Feb 2012 1:15 pm
Sample : 5.0PPBV CCV
Misc : CTWS-2642
Quant Time: Feb 15 14:04:38 2012

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

662

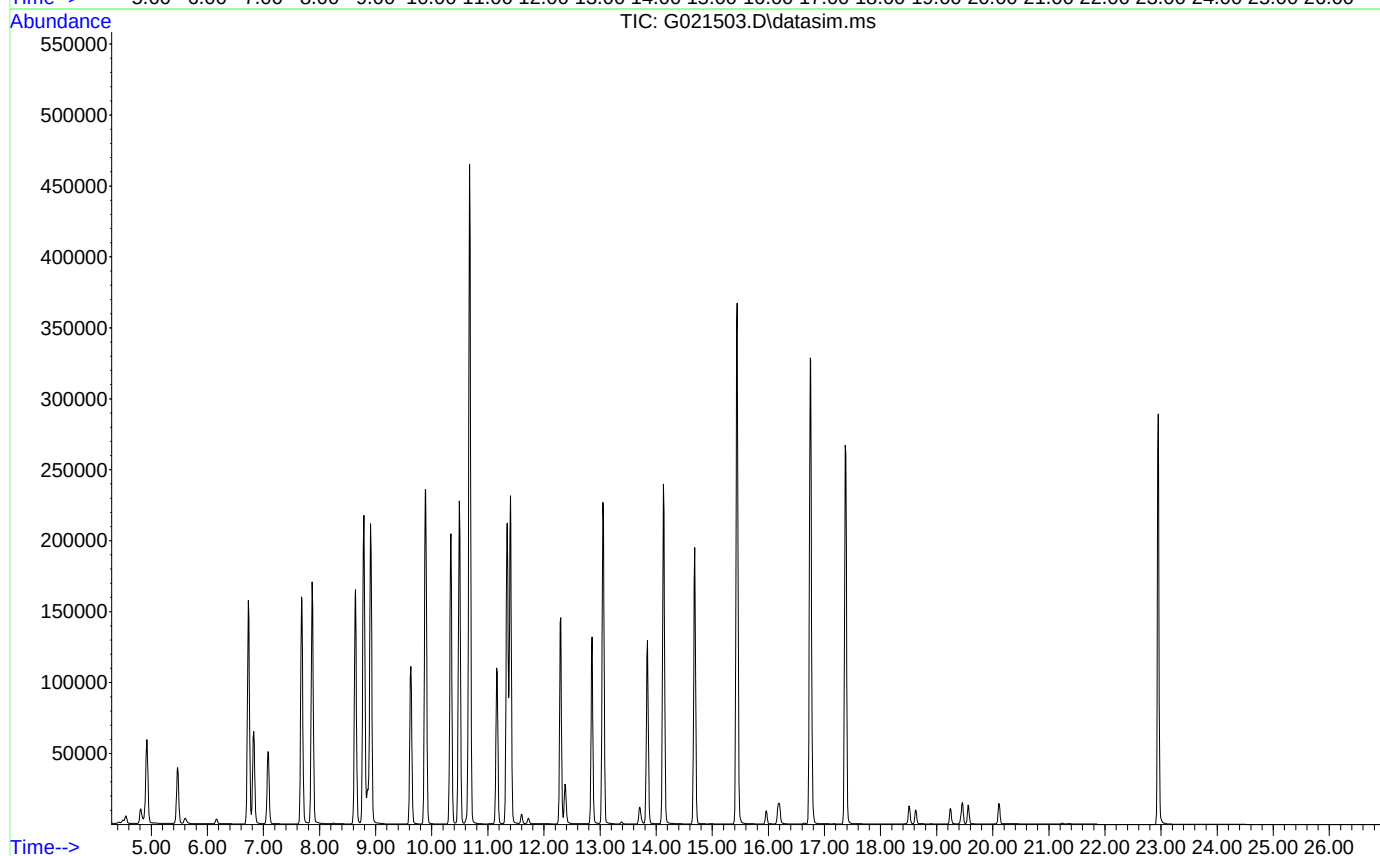
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	642052	4.740	PPBV	96
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	620977	4.617	PPBV	96
62) 1,3-DICHLOROBENZENE	19.462	146	436009	4.847	PPBV	98
63) BENZYL CHLORIDE	19.436	91	504704	5.747	PPBV	96
64) 1,4-DICHLOROBENZENE	19.566	146	428730	4.657	PPBV	99
65) 1,2-DICHLOROBENZENE	20.114	146	390255	4.579	PPBV	97
66) 1,2,4-TRICHLOROBENZENE	22.801	180	247943	4.042	PPBV	100
67) NAPHTHALENE	22.946	128	577658	3.256	PPBV	98
68) HEXACHLOROBUTADIENE	23.491	225	235247	4.225	PPBV	97

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

Vial: 22
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001777	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S001777-CCV1)			<i>Lab File ID: G021206.D</i>			<i>Analyzed: 02/12/12 19:43</i>			
Bromochloromethane (1)	313119	8.777	401737	8.777	78	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	973464	10.671	1069544	10.671	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	850011	15.43	963689	15.439	88	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (2)	931811	10.679	702121	10.663	133	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (2)	168668	15.447	128006	15.444	132	60 - 140	0.0030	+/-0.50	
LCS (B046173-BS1)			<i>Lab File ID: G021207.D</i>			<i>Analyzed: 02/12/12 20:20</i>			
Bromochloromethane (1)	309816	8.794	313119	8.777	99	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	964066	10.671	973464	10.671	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	829660	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	921729	10.671	931811	10.679	99	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	165943	15.439	168668	15.447	98	60 - 140	-0.0080	+/-0.50	
Blank (B046173-BLK1)			<i>Lab File ID: G021209.D</i>			<i>Analyzed: 02/12/12 23:00</i>			
Bromochloromethane (1)	288982	8.786	313119	8.777	92	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	871269	10.671	973464	10.671	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	797950	15.439	850011	15.43	94	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	870924	10.671	931811	10.679	93	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	160138	15.439	168668	15.447	95	60 - 140	-0.0080	+/-0.50	
PMF-UPS-SS01 (12B0323-01)			<i>Lab File ID: G021213.D</i>			<i>Analyzed: 02/13/12 09:27</i>			
Bromochloromethane (1)	299059	8.786	313119	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	924487	10.671	973464	10.671	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	846162	15.43	850011	15.43	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	924115	10.671	931811	10.679	99	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	170463	15.43	168668	15.447	101	60 - 140	-0.0170	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001777	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (B046173-DUP1)			<i>Lab File ID: G021214.D</i>		<i>Analyzed: 02/13/12 10:09</i>				
Bromochloromethane (1)	309657	8.803	313119	8.777	99	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	951669	10.679	973464	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	872143	15.439	850011	15.43	103	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	950830	10.679	931811	10.679	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	176293	15.439	168668	15.447	105	60 - 140	-0.0080	+/-0.50	
PMF-UPS-SS02 (12B0323-03)			<i>Lab File ID: G021215.D</i>		<i>Analyzed: 02/13/12 10:50</i>				
Bromochloromethane (1)	303999	8.786	313119	8.777	97	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	947118	10.671	973464	10.671	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	859201	15.439	850011	15.43	101	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	946841	10.671	931811	10.679	102	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	175079	15.439	168668	15.447	104	60 - 140	-0.0080	+/-0.50	
PMF-UPS-SS03 (12B0323-05)			<i>Lab File ID: G021216.D</i>		<i>Analyzed: 02/13/12 11:31</i>				
Bromochloromethane (1)	310379	8.803	313119	8.777	99	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	954107	10.679	973464	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	831528	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	953487	10.679	931811	10.679	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	166474	15.439	168668	15.447	99	60 - 140	-0.0080	+/-0.50	
PMF-UPS-SS04 (12B0323-07)			<i>Lab File ID: G021217.D</i>		<i>Analyzed: 02/13/12 12:12</i>				
Bromochloromethane (1)	302321	8.794	313119	8.777	97	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	913958	10.671	973464	10.671	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	836365	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	913591	10.671	931811	10.679	98	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	167957	15.439	168668	15.447	100	60 - 140	-0.0080	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001777	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-MSBA-SS-06 (12B0323-12)			<i>Lab File ID: G021218.D</i>		<i>Analyzed: 02/13/12 12:53</i>				
Bromochloromethane (1)	292403	8.786	313119	8.777	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	909351	10.671	973464	10.671	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	819332	15.439	850011	15.43	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	908939	10.671	931811	10.679	98	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	164352	15.439	168668	15.447	97	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-07 (12B0323-14)			<i>Lab File ID: G021219.D</i>		<i>Analyzed: 02/13/12 13:34</i>				
Bromochloromethane (1)	301826	8.786	313119	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	940105	10.671	973464	10.671	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	834028	15.439	850011	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	939665	10.671	931811	10.679	101	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	166974	15.439	168668	15.447	99	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-08 (12B0323-16)			<i>Lab File ID: G021220.D</i>		<i>Analyzed: 02/13/12 14:15</i>				
Bromochloromethane (1)	308081	8.794	313119	8.777	98	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	951250	10.671	973464	10.671	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	849422	15.439	850011	15.43	100	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	951059	10.671	931811	10.679	102	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	169313	15.439	168668	15.447	100	60 - 140	-0.0080	+/-0.50	
PMF-CONC-SS-09 (12B0323-19)			<i>Lab File ID: G021221.D</i>		<i>Analyzed: 02/13/12 14:56</i>				
Bromochloromethane (1)	303458	8.794	313119	8.777	97	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	934612	10.671	973464	10.671	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	861497	15.439	850011	15.43	101	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	934307	10.671	931811	10.679	100	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	170303	15.439	168668	15.447	101	60 - 140	-0.0080	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001777	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-CONC-SS-10 (12B0323-21)			<i>Lab File ID: G021222.D</i>			<i>Analyzed: 02/13/12 15:37</i>			
Bromochloromethane (1)	308077	8.803	313119	8.777	98	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	962463	10.679	973464	10.671	99	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	867153	15.439	850011	15.43	102	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	962009	10.679	931811	10.679	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	173097	15.439	168668	15.447	103	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-11 (12B0323-23)			<i>Lab File ID: G021223.D</i>			<i>Analyzed: 02/13/12 16:18</i>			
Bromochloromethane (1)	300643	8.786	313119	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	934779	10.671	973464	10.671	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	843284	15.439	850011	15.43	99	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	934410	10.671	931811	10.679	100	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (2)	169414	15.439	168668	15.447	100	60 - 140	-0.0080	+/-0.50	
PMF-MSBA-SS-05 (12B0323-10)			<i>Lab File ID: G021224.D</i>			<i>Analyzed: 02/13/12 16:59</i>			
Bromochloromethane (1)	300402	8.794	313119	8.777	96	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	954523	10.679	973464	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	864672	15.439	850011	15.43	102	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	954523	10.679	931811	10.679	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	172715	15.439	168668	15.447	102	60 - 140	-0.0080	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001781	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S001781-CCV1)			<i>Lab File ID: G021402.D</i>			<i>Analyzed: 02/14/12 11:44</i>			
Bromochloromethane (1)	333753	8.777	401737	8.777	83	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1094907	10.663	1069544	10.671	102	60 - 140	-0.0080	+/-0.50	
Chlorobenzene-d5 (1)	995254	15.43	963689	15.439	103	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (2)	911505	10.671	702121	10.663	130	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	165325	15.448	128006	15.444	129	60 - 140	0.0040	+/-0.50	
LCS (B046247-BS1)			<i>Lab File ID: G021403.D</i>			<i>Analyzed: 02/14/12 12:22</i>			
Bromochloromethane (1)	325796	8.786	333753	8.777	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1086337	10.671	1094907	10.663	99	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	968872	15.439	995254	15.43	97	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	869751	10.671	911505	10.671	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	156694	15.448	165325	15.448	95	60 - 140	0.0000	+/-0.50	
Blank (B046247-BLK1)			<i>Lab File ID: G021409.D</i>			<i>Analyzed: 02/14/12 16:59</i>			
Bromochloromethane (1)	270856	8.786	333753	8.777	81	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	851657	10.671	1094907	10.663	78	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	779269	15.439	995254	15.43	78	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	851381	10.671	911505	10.671	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	153812	15.439	165325	15.448	93	60 - 140	-0.0090	+/-0.50	
PMF-UPS-OA01 (12B0323-09)			<i>Lab File ID: G021410.D</i>			<i>Analyzed: 02/14/12 17:45</i>			
Bromochloromethane (1)	276609	8.786	333753	8.777	83	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	874251	10.671	1094907	10.663	80	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	790928	15.439	995254	15.43	79	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	874005	10.671	911505	10.671	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	156430	15.439	165325	15.448	95	60 - 140	-0.0090	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001781	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-MSBA-OA-02 (12B0323-18)			<i>Lab File ID: G021411.D</i>		<i>Analyzed: 02/14/12 18:30</i>				
Bromochloromethane (1)	276490	8.794	333753	8.777	83	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	879105	10.679	1094907	10.663	80	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	787495	15.439	995254	15.43	79	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	878581	10.679	911505	10.671	96	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	156058	15.439	165325	15.448	94	60 - 140	-0.0090	+/-0.50	
PMF-UPS-IA01 (12B0323-02)			<i>Lab File ID: G021412.D</i>		<i>Analyzed: 02/14/12 19:16</i>				
Bromochloromethane (1)	296608	8.786	333753	8.777	89	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	922156	10.671	1094907	10.663	84	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	848247	15.439	995254	15.43	85	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	921734	10.671	911505	10.671	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	169690	15.439	165325	15.448	103	60 - 140	-0.0090	+/-0.50	
PMF-UPS-IA02 (12B0323-04)			<i>Lab File ID: G021413.D</i>		<i>Analyzed: 02/14/12 20:02</i>				
Bromochloromethane (1)	302284	8.786	333753	8.777	91	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	953546	10.671	1094907	10.663	87	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	874144	15.439	995254	15.43	88	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	953098	10.671	911505	10.671	105	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	174612	15.439	165325	15.448	106	60 - 140	-0.0090	+/-0.50	
PMF-UPS-IA03 (12B0323-06)			<i>Lab File ID: G021414.D</i>		<i>Analyzed: 02/14/12 20:48</i>				
Bromochloromethane (1)	312210	8.786	333753	8.777	94	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	992738	10.671	1094907	10.663	91	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	911001	15.439	995254	15.43	92	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	992325	10.671	911505	10.671	109	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	182655	15.439	165325	15.448	110	60 - 140	-0.0090	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001781	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-UPS-IA04 (12B0323-08)			<i>Lab File ID: G021415.D</i>		<i>Analyzed: 02/14/12 21:33</i>				
Bromochloromethane (1)	320487	8.786	333753	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1019857	10.671	1094907	10.663	93	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	934098	15.439	995254	15.43	94	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1019244	10.671	911505	10.671	112	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	184121	15.439	165325	15.448	111	60 - 140	-0.0090	+/-0.50	
PMF-MSBA-IA-05 (12B0323-11)			<i>Lab File ID: G021416.D</i>		<i>Analyzed: 02/14/12 22:19</i>				
Bromochloromethane (1)	335625	8.803	333753	8.777	101	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	1101532	10.688	1094907	10.663	101	60 - 140	0.0250	+/-0.50	
Chlorobenzene-d5 (1)	976126	15.447	995254	15.43	98	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (2)	1100684	10.688	911505	10.671	121	60 - 140	0.0170	+/-0.50	
Chlorobenzene-d5 (2)	188677	15.447	165325	15.448	114	60 - 140	-0.0010	+/-0.50	
PMF-MSBA-IA-06 (12B0323-13)			<i>Lab File ID: G021417.D</i>		<i>Analyzed: 02/14/12 23:04</i>				
Bromochloromethane (1)	325309	8.786	333753	8.777	97	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1091489	10.671	1094907	10.663	100	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	981669	15.439	995254	15.43	99	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1091120	10.671	911505	10.671	120	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	182707	15.439	165325	15.448	111	60 - 140	-0.0090	+/-0.50	
PMF-MSBA-IA-07 (12B0323-15)			<i>Lab File ID: G021418.D</i>		<i>Analyzed: 02/14/12 23:50</i>				
Bromochloromethane (1)	328592	8.794	333753	8.777	98	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	1109266	10.679	1094907	10.663	101	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	986242	15.439	995254	15.43	99	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1108466	10.679	911505	10.671	122	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	184340	15.439	165325	15.448	112	60 - 140	-0.0090	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001781	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMF-MSBA-IA-08 (12B0323-17)			<i>Lab File ID: G021419.D</i>		<i>Analyzed: 02/15/12 00:36</i>				
Bromochloromethane (1)	330026	8.794	333753	8.777	99	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	1109081	10.679	1094907	10.663	101	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	996000	15.439	995254	15.43	100	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1108438	10.679	911505	10.671	122	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	185749	15.439	165325	15.448	112	60 - 140	-0.0090	+/-0.50	
PMF-CONC-IA-09 (12B0323-20)			<i>Lab File ID: G021420.D</i>		<i>Analyzed: 02/15/12 01:22</i>				
Bromochloromethane (1)	330148	8.803	333753	8.777	99	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	1100026	10.679	1094907	10.663	100	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	974825	15.439	995254	15.43	98	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1099389	10.679	911505	10.671	121	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	182901	15.439	165325	15.448	111	60 - 140	-0.0090	+/-0.50	
PMF-MSBA-IA-11 (12B0323-24)			<i>Lab File ID: G021421.D</i>		<i>Analyzed: 02/15/12 02:07</i>				
Bromochloromethane (1)	321812	8.786	333753	8.777	96	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1040348	10.671	1094907	10.663	95	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	927937	15.439	995254	15.43	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	1039793	10.671	911505	10.671	114	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	177176	15.439	165325	15.448	107	60 - 140	-0.0090	+/-0.50	
PMF-CONC-IA-10 (12B0323-22)			<i>Lab File ID: G021422.D</i>		<i>Analyzed: 02/15/12 02:53</i>				
Bromochloromethane (1)	311283	8.786	333753	8.777	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	989358	10.671	1094907	10.663	90	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	903130	15.439	995254	15.43	91	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	988856	10.671	911505	10.671	108	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	176471	15.439	165325	15.448	107	60 - 140	-0.0090	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001781	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (B046247-DUP1)			<i>Lab File ID: G021423.D</i>			<i>Analyzed: 02/15/12 03:39</i>			
Bromochloromethane (1)	304231	8.803	333753	8.777	91	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	947992	10.679	1094907	10.663	87	60 - 140	0.0160	+/-0.50	
Chlorobenzene-d5 (1)	857608	15.439	995254	15.43	86	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (2)	947042	10.679	911505	10.671	104	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	169961	15.439	165325	15.448	103	60 - 140	-0.0090	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory:	Con-Test Analytical Laboratory	Work Order:	12B0323
Client:	Arcadis US, Inc. - Clifton Park-NY	Project:	Purex-Mitchell Field-NY
Sequence:	S001786	Instrument:	SYSG
		Calibration:	1200017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S001786-CCV1)			<i>Lab File ID: G021503.D</i>			<i>Analyzed: 02/15/12 13:15</i>			
Bromochloromethane (1)	292830	8.786	401737	8.777	73	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	930814	10.671	1069544	10.671	87	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	826626	15.439	963689	15.439	86	60 - 140	0.0000	+/-0.50	
LCS (B046266-BS1)			<i>Lab File ID: G021504.D</i>			<i>Analyzed: 02/15/12 13:53</i>			
Bromochloromethane (1)	290794	8.794	292830	8.786	99	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	916481	10.679	930814	10.671	98	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	798902	15.439	826626	15.439	97	60 - 140	0.0000	+/-0.50	
Blank (B046266-BLK1)			<i>Lab File ID: G021507.D</i>			<i>Analyzed: 02/15/12 15:54</i>			
Bromochloromethane (1)	267559	8.794	292830	8.786	91	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	848158	10.679	930814	10.671	91	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	786102	15.439	826626	15.439	95	60 - 140	0.0000	+/-0.50	
PMF-MSBA-IA-05 (12B0323-11RE1)			<i>Lab File ID: G021508.D</i>			<i>Analyzed: 02/15/12 16:31</i>			
Bromochloromethane (1)	259633	8.786	292830	8.786	89	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	820019	10.671	930814	10.671	88	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	751483	15.439	826626	15.439	91	60 - 140	0.0000	+/-0.50	

QC DATA

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Air Laboratory ID: B046173-BLK1 File ID: G021209.D
 Sampled: Prepared: 02/12/12 17:48 Analyzed: 02/12/12 23:00
 Solids: Preparation: TO-15 Prep Dilution:
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG
 Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.013	0.025	
100-44-7	Benzyl chloride		0.0045	0.025	
75-27-4	Bromodichloromethane		0.0070	0.025	
75-25-2	Bromoform		0.0065	0.025	
74-83-9	Bromomethane		0.024	0.025	
78-93-3	2-Butanone (MEK)		0.019	1.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.038	0.10	
56-23-5	Carbon Tetrachloride		0.0070	0.025	
108-90-7	Chlorobenzene		0.021	0.025	
75-00-3	Chloroethane		0.014	0.025	
67-66-3	Chloroform		0.0090	0.025	
74-87-3	Chloromethane		0.012	0.025	
110-82-7	Cyclohexane		0.024	0.025	
124-48-1	Dibromochloromethane		0.0060	0.025	
106-93-4	1,2-Dibromoethane (EDB)		0.0070	0.025	
95-50-1	1,2-Dichlorobenzene		0.013	0.025	
541-73-1	1,3-Dichlorobenzene		0.0070	0.025	
106-46-7	1,4-Dichlorobenzene		0.0065	0.025	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.010	0.025	
75-34-3	1,1-Dichloroethane		0.0075	0.025	
107-06-2	1,2-Dichloroethane		0.0085	0.025	
75-35-4	1,1-Dichloroethylene		0.0080	0.025	
156-59-2	cis-1,2-Dichloroethylene		0.0070	0.025	
156-60-5	trans-1,2-Dichloroethylene		0.0085	0.025	
78-87-5	1,2-Dichloropropane		0.010	0.025	

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Air Laboratory ID: B046173-BLK1 File ID: G021209.D
 Sampled: Prepared: 02/12/12 17:48 Analyzed: 02/12/12 23:00
 Solids: Preparation: TO-15 Prep Dilution:
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG
 Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0050	0.025	
10061-02-6	trans-1,3-Dichloropropene		0.0050	0.025	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.019	0.025	
123-91-1	1,4-Dioxane		0.012	0.025	
64-17-5	Ethanol		0.12	1.0	
100-41-4	Ethylbenzene		0.0070	0.025	
87-68-3	Hexachlorobutadiene		0.0090	0.025	
110-54-3	Hexane		0.022	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0070	0.025	
75-09-2	Methylene Chloride		0.032	0.25	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0075	0.025	V-05
100-42-5	Styrene		0.0055	0.025	
79-34-5	1,1,2,2-Tetrachloroethane		0.0085	0.025	
127-18-4	Tetrachloroethylene		0.0075	0.025	
108-88-3	Toluene		0.0070	0.025	
120-82-1	1,2,4-Trichlorobenzene		0.0095	0.025	
71-55-6	1,1,1-Trichloroethane		0.0085	0.025	
79-00-5	1,1,2-Trichloroethane		0.0080	0.025	
79-01-6	Trichloroethylene		0.0070	0.025	
75-69-4	Trichlorofluoromethane (Freon 11)		0.016	0.025	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0085	0.025	
95-63-6	1,2,4-Trimethylbenzene		0.0085	0.025	
108-67-8	1,3,5-Trimethylbenzene		0.0075	0.025	
540-84-1	2,2,4-Trimethylpentane		0.022	0.067	V-05
75-01-4	Vinyl Chloride		0.012	0.025	
1330-20-7P/M	m&p-Xylene		0.013	0.050	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Air Laboratory ID: B046173-BLK1 File ID: G021209.D
Sampled: Prepared: 02/12/12 17:48 Analyzed: 02/12/12 23:00
Solids: Preparation: TO-15 Prep Dilution:
Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG
Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
95-47-6	o-Xylene		0.0065	0.025	

Data File : C:\msdchem\1\data\G021212\G021209.D
 Acq On : 12 Feb 2012 11:00 pm
 Sample : MBL 0.5X
 Misc : 1,1,400,800,0.5X
 Quant Time: Feb 13 13:26:56 2012

Vial: 1
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	288982	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	871269	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	797950	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	443238	8.16	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
15) METHYLENE CHLORIDE	6.823	49	2890	0.092	PPBV	Qvalue 79

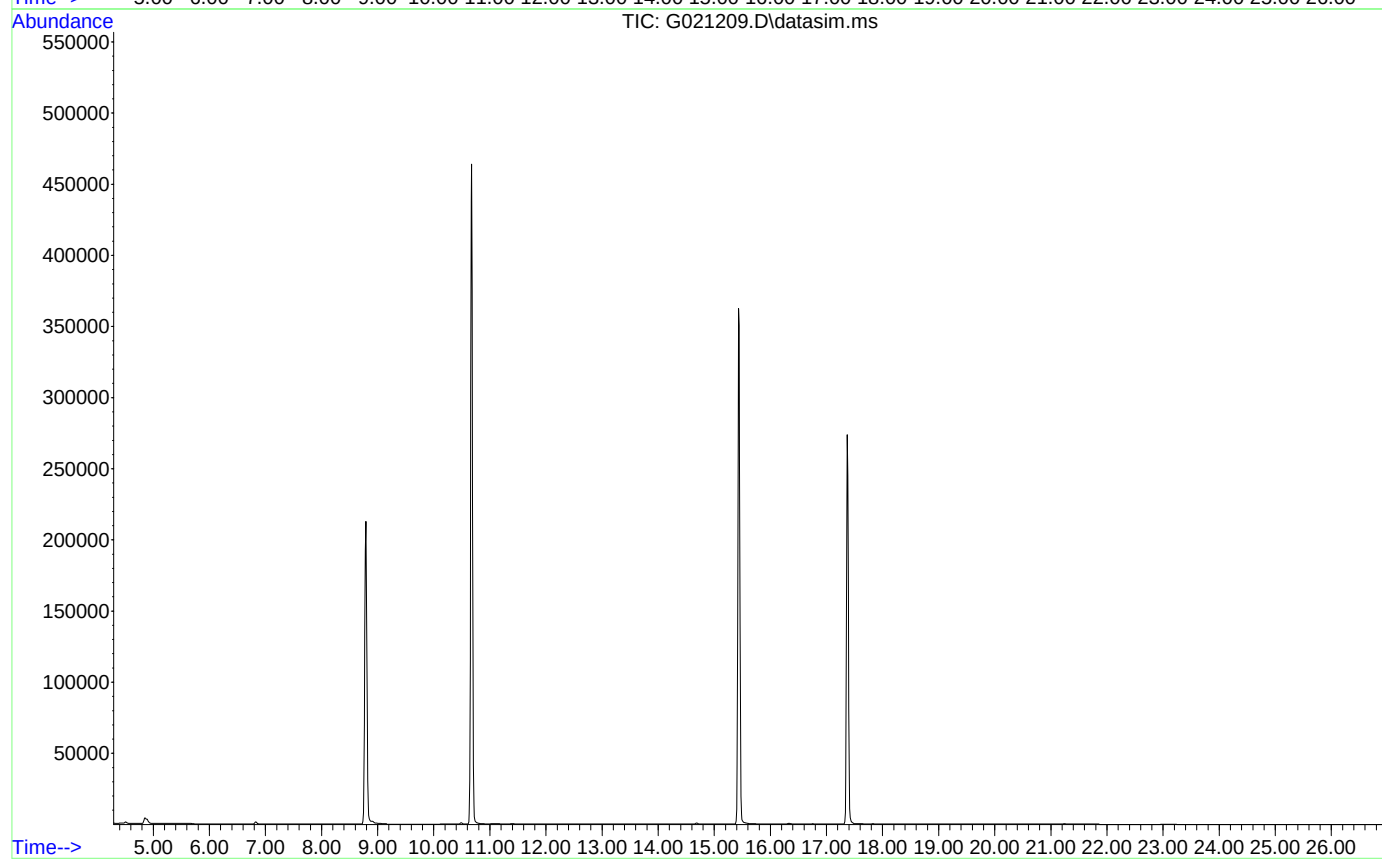
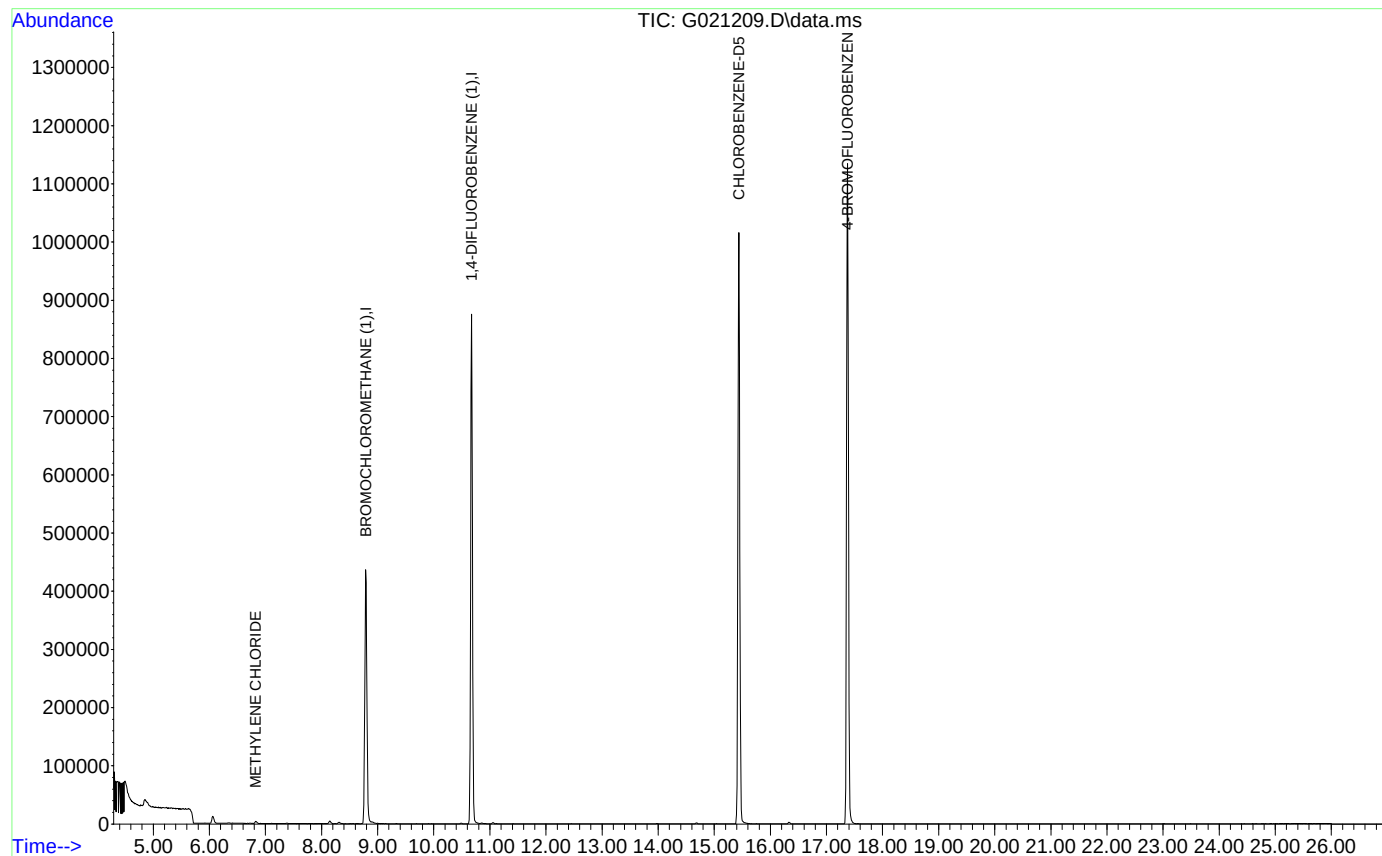
(#) = qualifier out of range (m) = manual integration (+) = signals summed

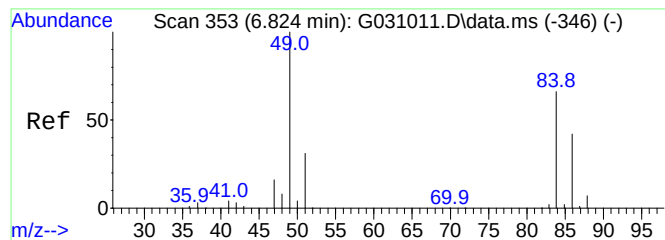
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Acq On : 12 Feb 2012 11:00 pm
Sample : MBL 0.5X
Misc : 1,1,400,800,0.5X
Quant Time: Feb 13 13:26:56 2012

Vial: 1
Operator: TPH
Inst : SYSG
Multiplr: 1.00

679

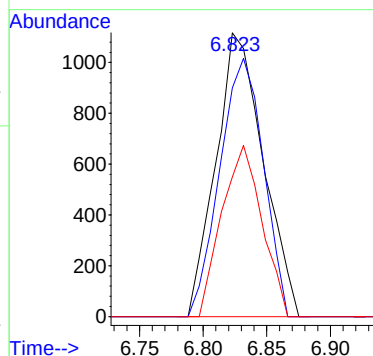
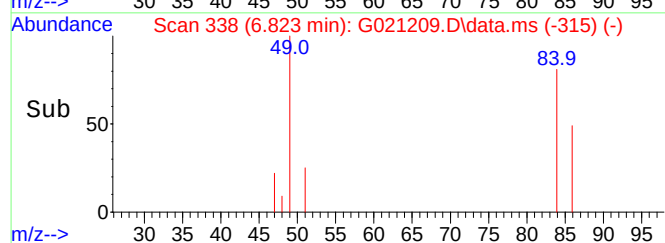
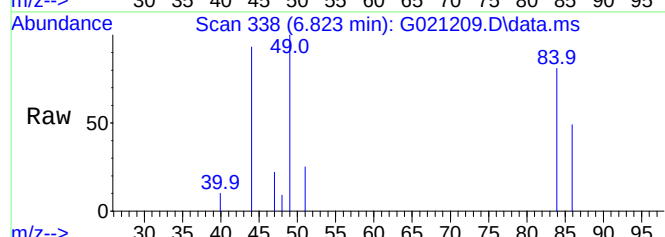
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





#15
METHYLENE CHLORIDE
Concen: 0.09 PPBV
RT: 6.823 min Scan# 338
Delta R.T. -0.000 min
Lab File: G021209.D
Acq: 12 Feb 2012 11:00 pm

Tgt Ion: 49 Resp: 2890
Ion Ratio Lower Upper
49 100
84 84.0 45.2 85.2
86 51.2 21.4 61.4



Data File : C:\msdchem\1\data\G021212\G021209.D
Acq On : 12 Feb 2012 11:00 pm
Sample : MBL 0.5X
Misc : 1,1,400,800,0.5X
Quant Time: Feb 14 12:56:07 2012

Vial: 1
Operator: TPH
Inst : SYSG
Multiplr: 1.00

681

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	870924	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	160138	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.377	95	581307	9.59	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	119.88%

Target Compounds	Qvalue

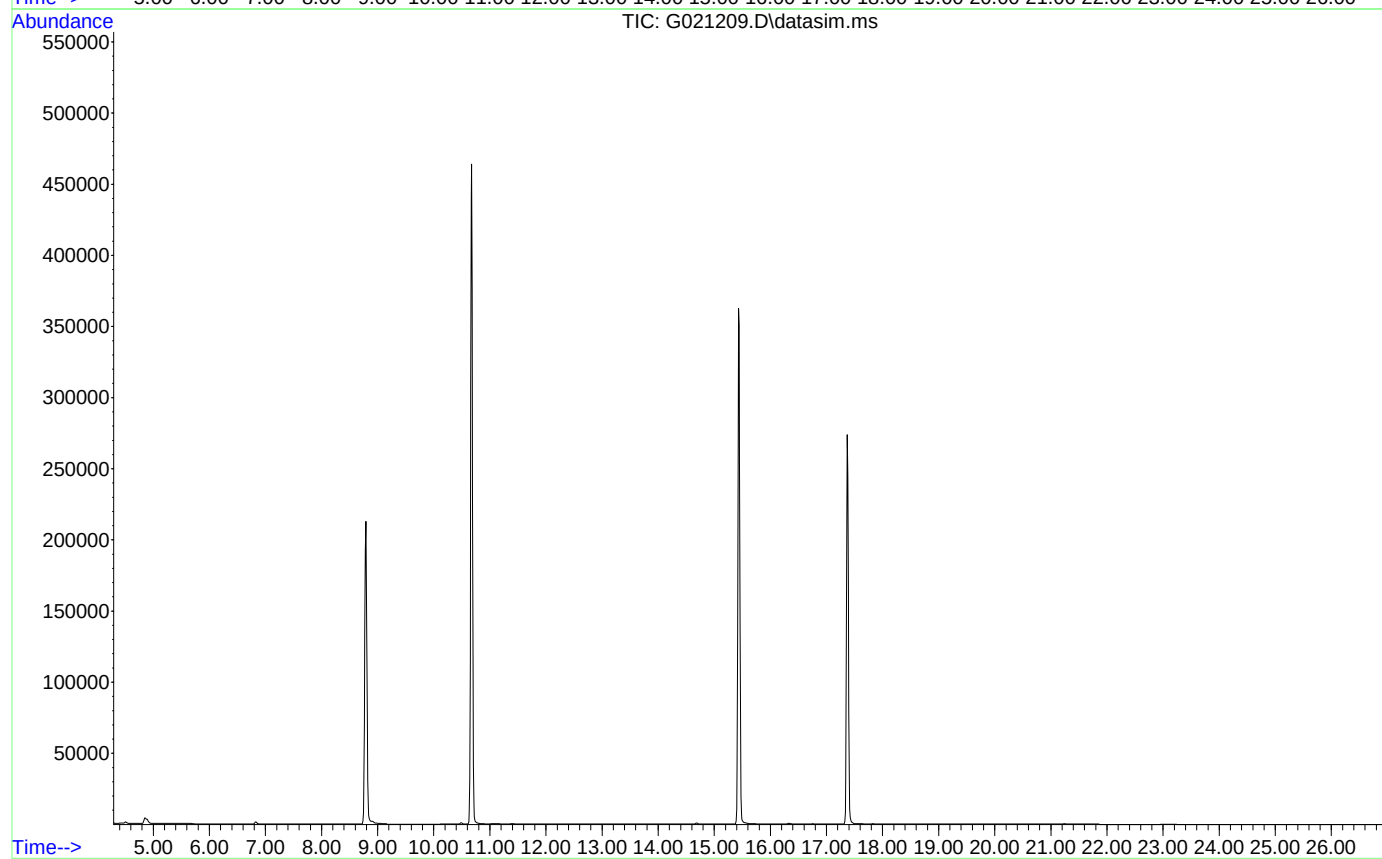
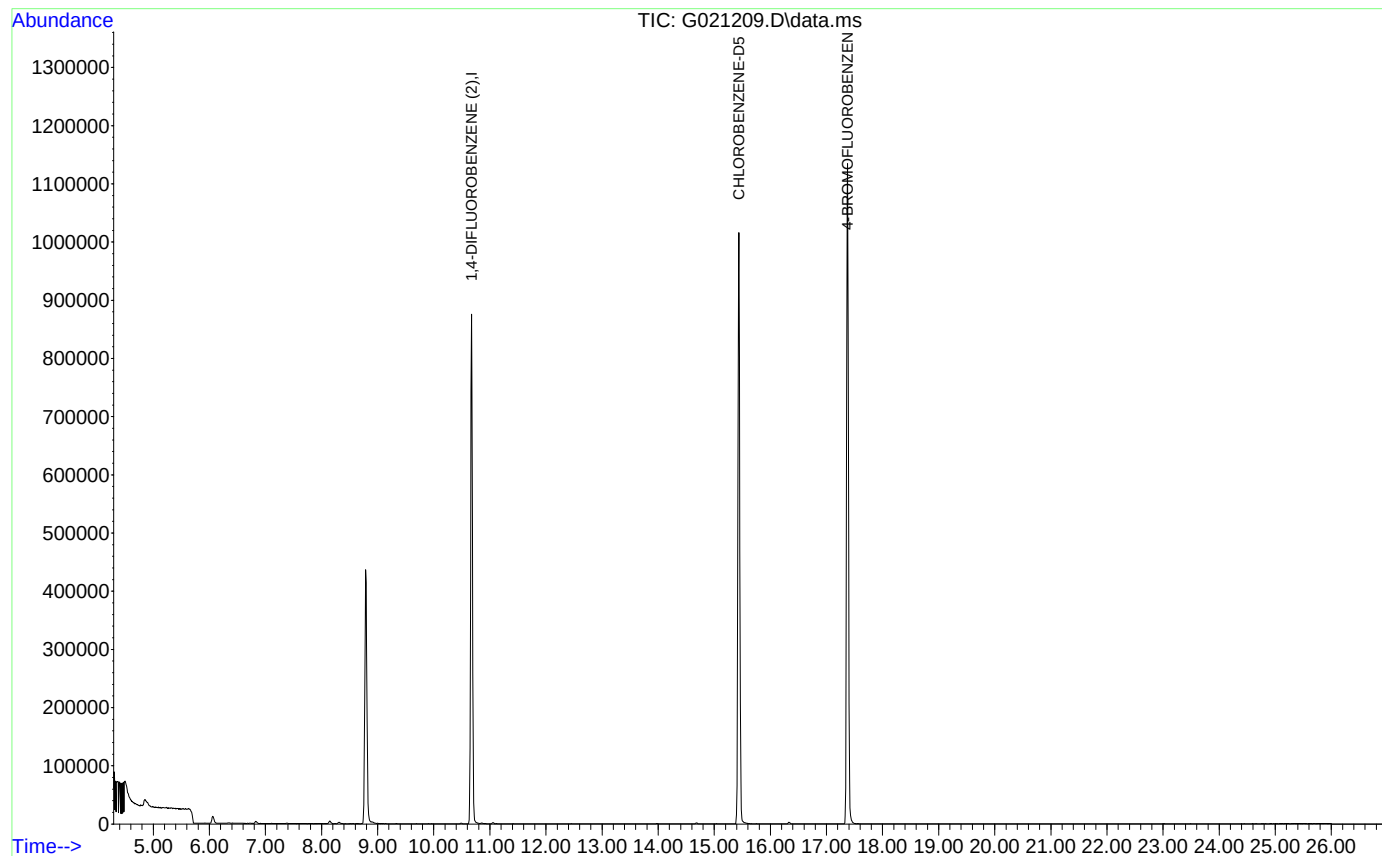
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021209.D
Acq On : 12 Feb 2012 11:00 pm
Sample : MBL 0.5X
Misc : 1,1,400,800,0.5X
Quant Time: Feb 14 12:56:07 2012

Vial: 1
Operator: TPH
Inst : SYSG
Multiplr: 1.00

682

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Air Laboratory ID: B046173-BS1 File ID: G021207.D
 Sampled: Prepared: 02/12/12 17:48 Analyzed: 02/12/12 20:20
 Solids: Preparation: TO-15 Prep Dilution:
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG
 Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	3.78			
100-44-7	Benzyl chloride	6.10			
75-27-4	Bromodichloromethane	4.17			
75-25-2	Bromoform	5.66			
74-83-9	Bromomethane	5.05			
78-93-3	2-Butanone (MEK)	4.27			
75-65-0	tert-Butyl Alcohol (TBA)	1.95			
56-23-5	Carbon Tetrachloride	4.98			
108-90-7	Chlorobenzene	4.57			
75-00-3	Chloroethane	5.07			
67-66-3	Chloroform	4.80			
74-87-3	Chloromethane	5.11			
110-82-7	Cyclohexane	4.12			
124-48-1	Dibromochloromethane	5.15			
106-93-4	1,2-Dibromoethane (EDB)	4.30			
95-50-1	1,2-Dichlorobenzene	4.91			
541-73-1	1,3-Dichlorobenzene	5.21			
106-46-7	1,4-Dichlorobenzene	5.02			
75-71-8	Dichlorodifluoromethane (Freon 12)	5.40			
75-34-3	1,1-Dichloroethane	4.46			
107-06-2	1,2-Dichloroethane	4.45			
75-35-4	1,1-Dichloroethylene	4.31			
156-59-2	cis-1,2-Dichloroethylene	4.25			
156-60-5	trans-1,2-Dichloroethylene	4.24			
78-87-5	1,2-Dichloropropane	3.80			
10061-01-5	cis-1,3-Dichloropropene	4.15			

1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Air Laboratory ID: B046173-BS1 File ID: G021207.D
 Sampled: Prepared: 02/12/12 17:48 Analyzed: 02/12/12 20:20
 Solids: Preparation: TO-15 Prep Dilution:
 Batch: B046173 Sequence: S001777 Calibration: 1200017 Instrument: SYSG
 Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	3.74			
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon	5.53			
123-91-1	1,4-Dioxane	4.01			
64-17-5	Ethanol	5.42			
100-41-4	Ethylbenzene	4.52			
87-68-3	Hexachlorobutadiene	4.95			
110-54-3	Hexane	4.70			
1634-04-4	Methyl tert-Butyl Ether (MTBE)	4.40			
75-09-2	Methylene Chloride	4.66			
108-10-1	4-Methyl-2-pentanone (MIBK)	3.65			V-05
100-42-5	Styrene	4.58			
79-34-5	1,1,2,2-Tetrachloroethane	4.56			
127-18-4	Tetrachloroethylene	4.48			
108-88-3	Toluene	4.39			
120-82-1	1,2,4-Trichlorobenzene	5.29			
71-55-6	1,1,1-Trichloroethane	4.18			
79-00-5	1,1,2-Trichloroethane	4.45			
79-01-6	Trichloroethylene	4.02			
75-69-4	Trichlorofluoromethane (Freon 11)	5.60			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	5.20			
95-63-6	1,2,4-Trimethylbenzene	4.84			
108-67-8	1,3,5-Trimethylbenzene	4.90			
540-84-1	2,2,4-Trimethylpentane	0.969			V-05
75-01-4	Vinyl Chloride	5.07			
1330-20-7P/M	m&p-Xylene	9.66			
95-47-6	o-Xylene	4.74			

Data File : C:\msdchem\1\data\G021212\G021207.D
 Acq On : 12 Feb 2012 9:37 pm
 Sample : 5.0PPBV LCS
 Misc : CTWS-2643
 Quant Time: Feb 13 13:25:34 2012

Vial: 23
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

685

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	309816	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	964066	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	829660	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	474277	8.39	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.88%
Target Compounds						
						Qvalue
2) PROPENE	4.482	41	97651	4.807	PPBV	99
3) DICHLORODIFLUOROMETHANE	4.562	85	327633	5.396	PPBV	100
4) CHLOROMETHANE	4.717	50	89246	5.113	PPBV	99
5) FREON 114	4.817	85	307269	5.534	PPBV	91
6) VINYL CHLORIDE	4.931	62	104920	5.068	PPBV	98
7) 1,3-BUTADIENE	5.065	54	69994	4.939	PPBV	97
8) BROMOMETHANE	5.320	94	100462	5.049	PPBV	99
9) CHLOROETHANE	5.481	64	47876	5.073	PPBV	97
10) ACROLEIN	5.903	56	29147	4.012	PPBV	98
11) ACETONE	6.024	43	151008	5.012	PPBV	96
12) TRICHLOROFLUOROMETHANE	6.172	101	270811	5.595	PPBV	99
13) ETHANOL	5.595	45	34384	5.423	PPBV	98
14) 1,1-DICHLOROETHENE	6.736	61	202372	4.313	PPBV	90
15) METHYLENE CHLORIDE	6.832	49	157410	4.663	PPBV	79
16) FREON 113	7.092	101	285305	5.201	PPBV	91
17) CARBON DISULFIDE	7.127	76	403693	4.683	PPBV	97
18) TRANS-1,2-DICHLOROETHENE	7.683	61	198581	4.243	PPBV	86
19) 1,1-DICHLOROETHANE	7.874	63	258747	4.462	PPBV	99
20) MTBE	7.961	73	343845	4.399	PPBV	96
21) IPA	6.267	45	122820	3.874	PPBV	82
22) 2-BUTANONE(MEK)	8.247	43	260795	4.271	PPBV	87
23) CIS-1,2-DICHLOROETHENE	8.638	61	187853	4.254	PPBV	87
24) VINYL ACETATE	7.995	43	378395	4.251	PPBV	96
25) HEXANE	8.855	41	148787	4.695	PPBV	90
26) ETHYL ACETATE	8.855	61	51266	4.752	PPBV	94
27) CHLOROFORM	8.907	83	297115	4.803	PPBV	100
28) TETRAHYDROFURAN	9.333	71	64957	4.643	PPBV	99
29) 1,2-DICHLOROETHANE	9.624	62	185682	4.452	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.889	97	269664	4.178	PPBV	98
32) BENZENE	10.338	78	451626	3.778	PPBV	94
33) CARBON TETRACHLORIDE	10.488	117	284614	4.983	PPBV	99
34) CYCLOHEXANE	10.629	84	208006	4.123	PPBV	79
35) 1,2-DICHLOROPROPANE	11.162	63	170541	3.801	PPBV	96
36) BROMODICHLOROMETHANE	11.342	83	304718	4.167	PPBV	100
37) TRICHLOROETHENE	11.397	95	195635	4.015	PPBV	90
38) 1,4-DIOXANE	11.429	88	106705	4.008	PPBV	90
39) METHYLMETHACRYLATE	11.602	69	156428	4.058	PPBV	81
40) HEPTANE	11.720	57	145009	4.040	PPBV	89
41) MIBK	12.372	43	327953	3.651	PPBV	90
42) CIS-1,3-DICHLOROPROPENE	12.294	75	245572	4.150	PPBV	94
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	206996	3.736	PPBV	95
45) 1,1,2-TRICHLOROETHANE	13.048	97	192065	4.448	PPBV	93
46) TOLUENE	13.379	91	548815	4.392	PPBV	100
47) 2-HEXANONE(MBK)	13.701	43	309583	3.833	PPBV	92
48) DIBROMOCHLOROMETHANE	13.840	129	304667	5.151	PPBV	99
49) 1,2-DIBROMOETHANE	14.127	107	277164	4.302	PPBV	100
50) TETRACHLOROETHENE	14.683	166	241433	4.483	PPBV	96
51) CHLOROBENZENE	15.491	112	459268	4.570	PPBV	93
52) ETHYLBENZENE	15.960	91	712403	4.516	PPBV	97
53) M/P-XYLENE	16.186	91	1204609	9.655	PPBV	100
54) BROMOFORM	16.256	173	276292	5.663	PPBV	100
55) STYRENE	16.638	104	416695	4.577	PPBV	95
56) O-XYLENE	16.786	91	588900	4.745	PPBV	96
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	432549	4.561	PPBV	99
59) 4-ETHYLTOLUENE	18.506	105	792660	4.821	PPBV	98

Data File : C:\msdchem\1\data\G021212\G021207.D
 Acq On : 12 Feb 2012 9:37 pm
 Sample : 5.0PPBV LCS
 Misc : CTWS-2643
 Quant Time: Feb 13 13:25:34 2012

Vial: 23
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

686

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	665385	4.895	PPBV	96
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	652798	4.836	PPBV	96
62) 1,3-DICHLOROBENZENE	19.462	146	470289	5.209	PPBV	98
63) BENZYL CHLORIDE	19.427	91	538089	6.105	PPBV	97
64) 1,4-DICHLOROBENZENE	19.566	146	463530	5.016	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	420218	4.913	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	325794	5.292	PPBV	100
67) NAPHTHALENE	22.946	128	792144	4.449	PPBV	98
68) HEXACHLOROBUTADIENE	23.491	225	276621	4.950	PPBV	98

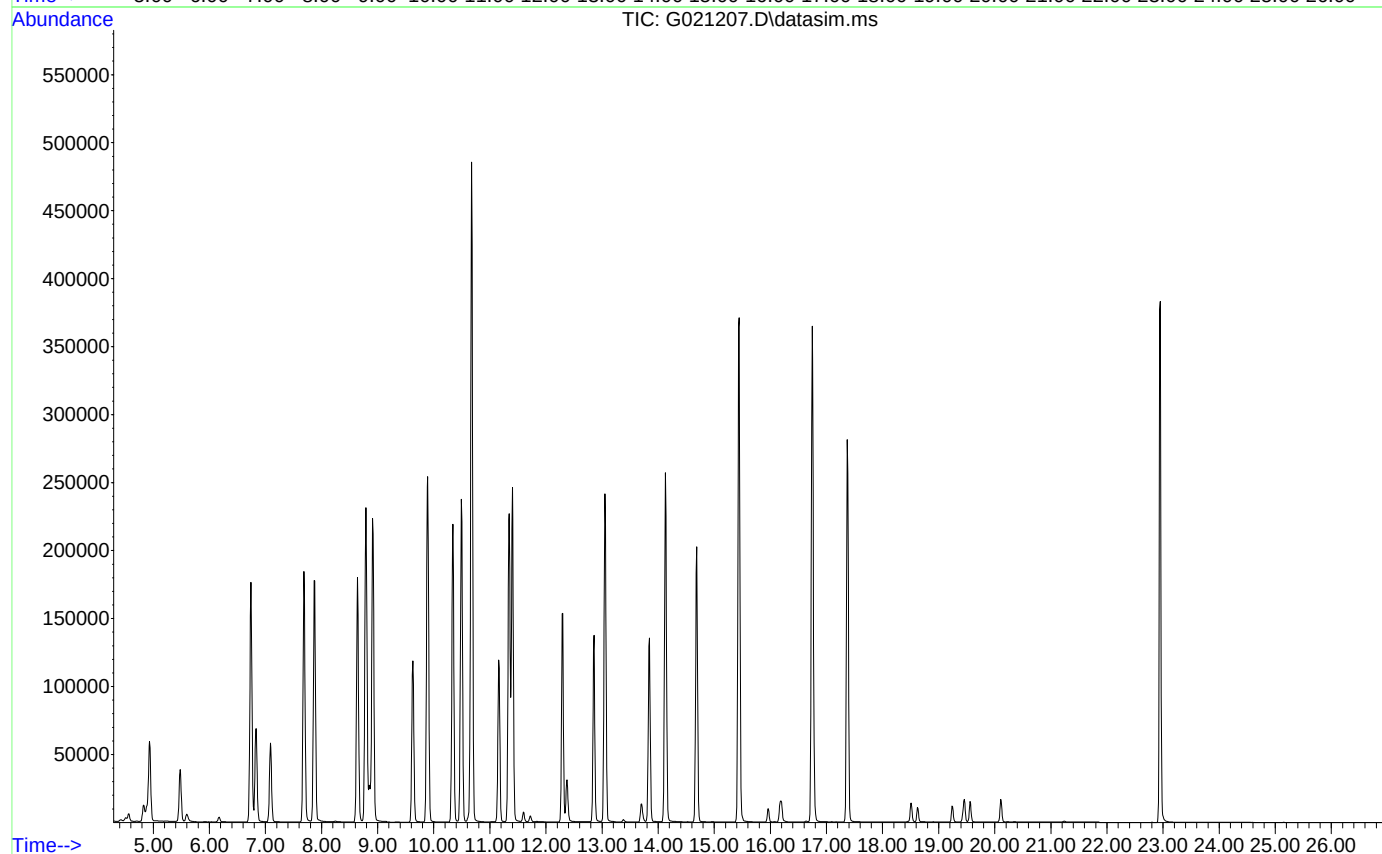
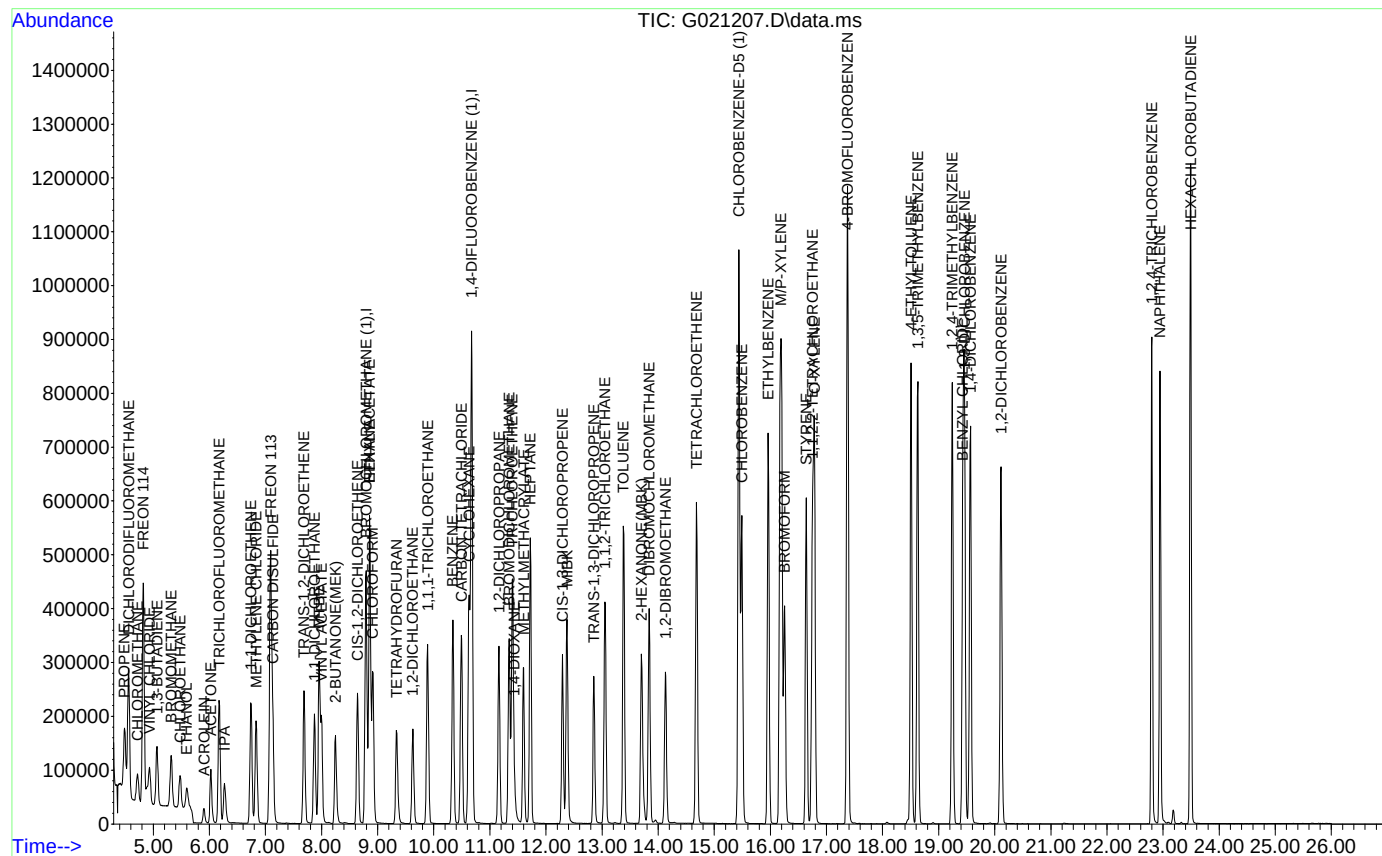
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021207.D
Acq On : 12 Feb 2012 9:37 pm
Sample : 5.0PPBV LCS
Misc : CTWS-2643
Quant Time: Feb 13 13:25:34 2012

Vial: 23
Operator: TPH
Inst : SYSG
Multiplr: 1.00

687

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



Data File : C:\msdchem\1\data\G021212\G021205.D
 Acq On : 12 Feb 2012 8:20 pm
 Sample : 6.25ug-m3 LCS
 Misc : CTWS-2646
 Quant Time: Feb 13 08:34:50 2012

Vial: 25
 Operator: TPH
 Inst : SYSG
 Multiplr: 1.00

688

Quant Method : C:\msdchem\1\methods\EX082410.M
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Wed Aug 25 10:05:43 2010
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	921729	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	165943	8.00	PPBV	0.00
System Monitoring Compounds						
10) 4-BROMOFLUOROBENZENE (2)	17.377	95	592039	9.43	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	117.88%
Target Compounds						
2) ACRYLONITRILE	6.406	53	41832	2.506	PPBV	Qvalue 100
3) METHYL ACETATE	6.797	43	105785	2.095	PPBV	96
4) TERT-BUTYL ALCOHOL	6.910	59	104796m	1.951	PPBV	
5) 2,2,4-TRIMETHYLPENTANE	11.460	57	127911	0.969	PPBV	99
6) METHYLCYCLOHEXANE	12.435	83	50608	0.932	PPBV	99
8) 1,3-DICHLOROPROPANE	13.397	76	76974	1.394	PPBV	92
9) 1,1,1,2-TETRACHLOROETHANE	15.474	131	42868	1.232	PPBV	98
11) CUMENE	17.576	105	185211	1.369	PPBV	99
12) PROPYLBENZENE	18.298	120	48714	1.337	PPBV	98
13) TERT-BUTYLBENZENE	19.236	134	29605	1.199	PPBV #	91
14) SEC-BUTYLBENZENE	19.671	105	197190	1.223	PPBV	98
15) P-CYME	19.931	119	164518	1.223	PPBV	99
16) INDANE	20.227	117	146419	1.416	PPBV	93
17) INDENE	20.374	115	141501	1.754	PPBV	98
18) BUTYLBENZENE	20.626	91	189086	1.404	PPBV	98
19) 1,2-DIBROMO-3-CHLOROPR...	20.844	157	26484	0.709	PPBV	94
20) HEXYLCYCLOHEXANE	23.794	83	116655	1.018	PPBV	97
21) 2-METHYLNAPHTHALENE	24.563	142	63152	0.612	PPBV	100
22) 1-METHYLNAPHTHALENE	24.813	142	78756	0.707	PPBV	98
23) 4-PHENYLCYCLOHEXENE	25.096	104	118297	0.795	PPBV	99

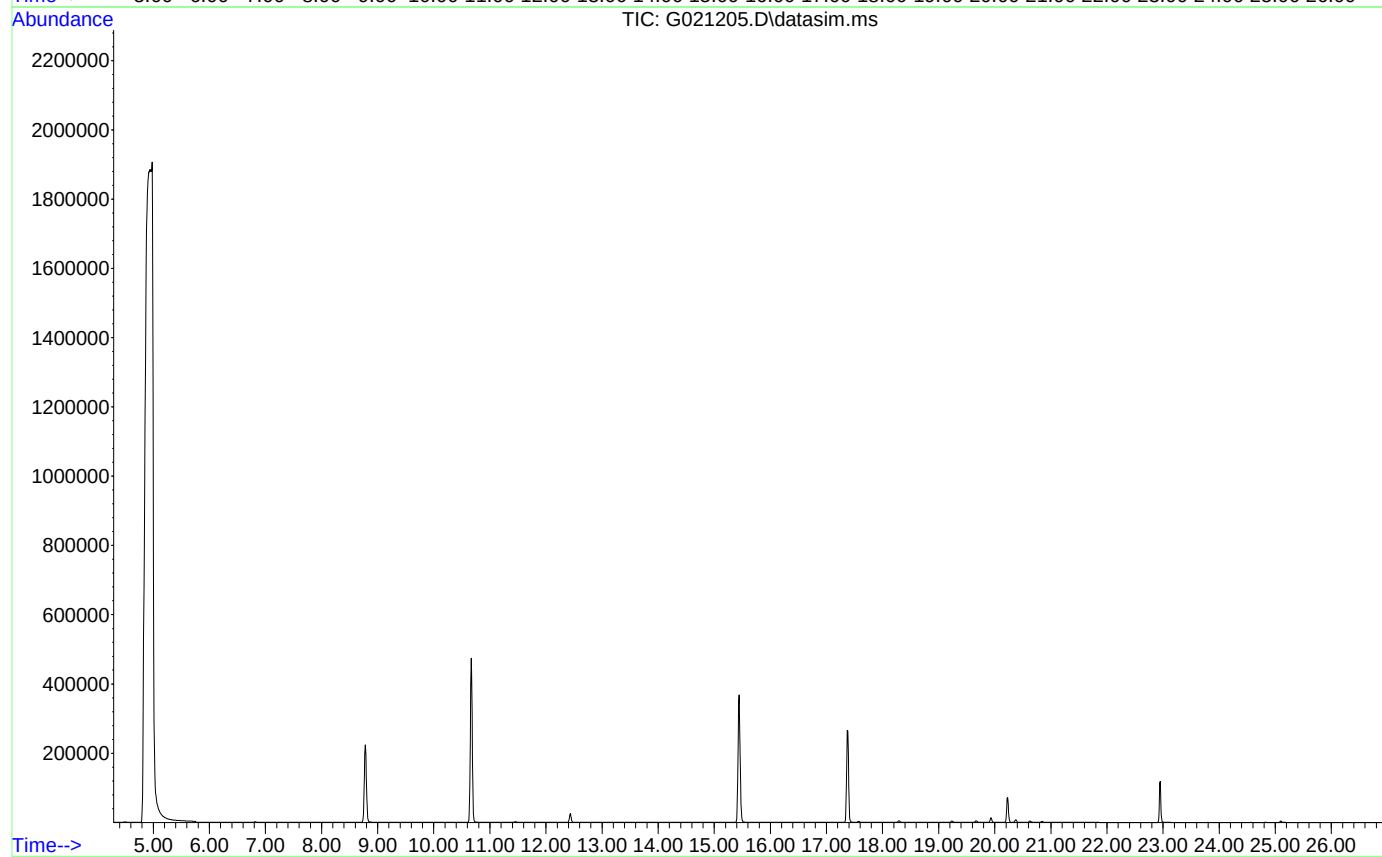
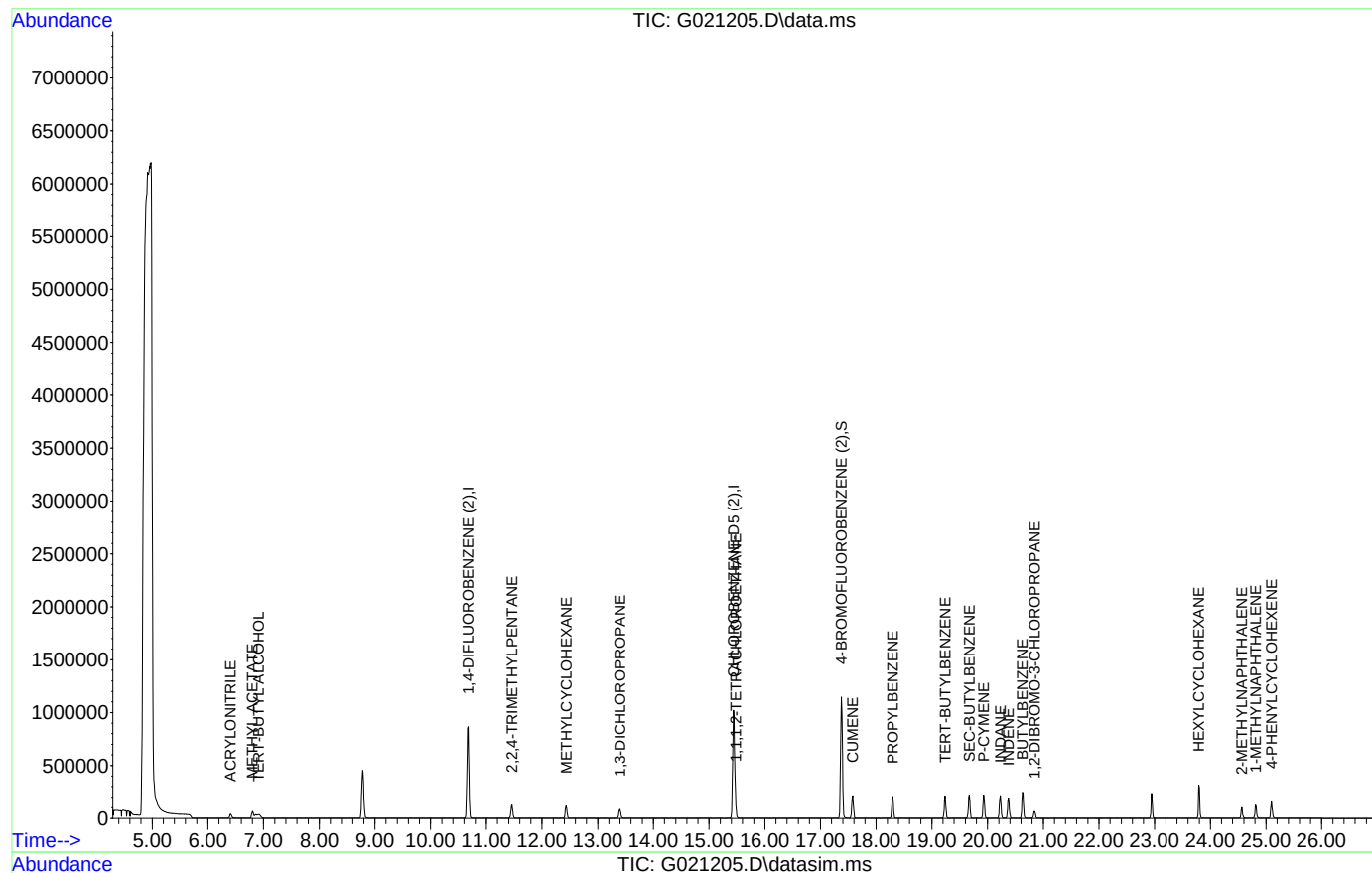
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021212\G021205.D
Acq On : 12 Feb 2012 8:20 pm
Sample : 6.25ug-m3 LCS
Misc : CTWS-2646
Quant Time: Feb 13 08:34:50 2012

Vial: 25
Operator: TPH
Inst : SYSG
Multiplr: 1.00

689

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory
 Client: Arcadis US, Inc. - Clifton Park-NY
 Matrix: Air
 Sampled:
 Solids:
 Batch: B046247
 Column: 1

Laboratory ID: B046247-BLK1
 Prepared: 02/14/12 10:43
 Preparation: TO-15 Prep
 Sequence: S001781

Work Order: 12B0323
 Project: Purex-Mitchell Field-NY
 File ID: G021409.D
 Analyzed: 02/14/12 16:59
 Dilution:
 Calibration: 1200017
 Instrument: SYSG

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene		0.013	0.025	
100-44-7	Benzyl chloride		0.0045	0.025	
75-27-4	Bromodichloromethane		0.0070	0.025	
75-25-2	Bromoform		0.0065	0.025	
74-83-9	Bromomethane		0.024	0.025	
78-93-3	2-Butanone (MEK)		0.019	1.0	
75-65-0	tert-Butyl Alcohol (TBA)		0.038	0.10	
56-23-5	Carbon Tetrachloride		0.0070	0.025	
108-90-7	Chlorobenzene		0.021	0.025	
75-00-3	Chloroethane		0.014	0.025	
67-66-3	Chloroform		0.0090	0.025	
74-87-3	Chloromethane		0.012	0.025	
110-82-7	Cyclohexane		0.024	0.025	
124-48-1	Dibromochloromethane		0.0060	0.025	
106-93-4	1,2-Dibromoethane (EDB)		0.0070	0.025	
95-50-1	1,2-Dichlorobenzene		0.013	0.025	
541-73-1	1,3-Dichlorobenzene		0.0070	0.025	
106-46-7	1,4-Dichlorobenzene		0.0065	0.025	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.010	0.025	
75-34-3	1,1-Dichloroethane		0.0075	0.025	
107-06-2	1,2-Dichloroethane		0.0085	0.025	
75-35-4	1,1-Dichloroethylene		0.0080	0.025	
156-59-2	cis-1,2-Dichloroethylene		0.0070	0.025	
156-60-5	trans-1,2-Dichloroethylene		0.0085	0.025	
78-87-5	1,2-Dichloropropane		0.010	0.025	

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Air Laboratory ID: B046247-BLK1 File ID: G021409.D
 Sampled: Prepared: 02/14/12 10:43 Analyzed: 02/14/12 16:59
 Solids: Preparation: TO-15 Prep Dilution:
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG
 Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0050	0.025	
10061-02-6	trans-1,3-Dichloropropene		0.0050	0.025	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon		0.019	0.025	
123-91-1	1,4-Dioxane		0.012	0.025	
64-17-5	Ethanol		0.12	1.0	
100-41-4	Ethylbenzene		0.0070	0.025	
87-68-3	Hexachlorobutadiene		0.0090	0.025	
110-54-3	Hexane		0.022	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0070	0.025	
75-09-2	Methylene Chloride		0.032	0.25	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0075	0.025	
100-42-5	Styrene		0.0055	0.025	
79-34-5	1,1,2,2-Tetrachloroethane		0.0085	0.025	
127-18-4	Tetrachloroethylene		0.0075	0.025	
108-88-3	Toluene		0.0070	0.025	
120-82-1	1,2,4-Trichlorobenzene		0.0095	0.025	
71-55-6	1,1,1-Trichloroethane		0.0085	0.025	
79-00-5	1,1,2-Trichloroethane		0.0080	0.025	
79-01-6	Trichloroethylene		0.0070	0.025	
75-69-4	Trichlorofluoromethane (Freon 11)		0.016	0.025	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0085	0.025	
95-63-6	1,2,4-Trimethylbenzene		0.0085	0.025	
108-67-8	1,3,5-Trimethylbenzene		0.0075	0.025	
540-84-1	2,2,4-Trimethylpentane		0.022	0.067	V-05
75-01-4	Vinyl Chloride		0.012	0.025	
1330-20-7P/M	m&p-Xylene		0.013	0.050	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Air Laboratory ID: B046247-BLK1 File ID: G021409.D
Sampled: Prepared: 02/14/12 10:43 Analyzed: 02/14/12 16:59
Solids: Preparation: TO-15 Prep Dilution:
Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG
Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
95-47-6	o-Xylene		0.0065	0.025	

Data File : C:\msdchem\1\data\G021412\G021409.D
 Acq On : 14 Feb 2012 4:59 pm
 Sample : MBL 0.5x
 Misc : 1,1,400,800,0.5x
 Quant Time: Feb 15 11:24:23 2012

Vial: 1
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

693

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	270856	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	851657	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	779269	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.376	174	443685	8.36	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	104.50%
Target Compounds						
11) ACETONE	6.041	43	19828	0.753	PPBV	Qvalue 82
15) METHYLENE CHLORIDE	6.823	49	2800	0.095	PPBV	# 76
22) 2-BUTANONE(MEK)	8.299	43	5447	0.102	PPBV	93

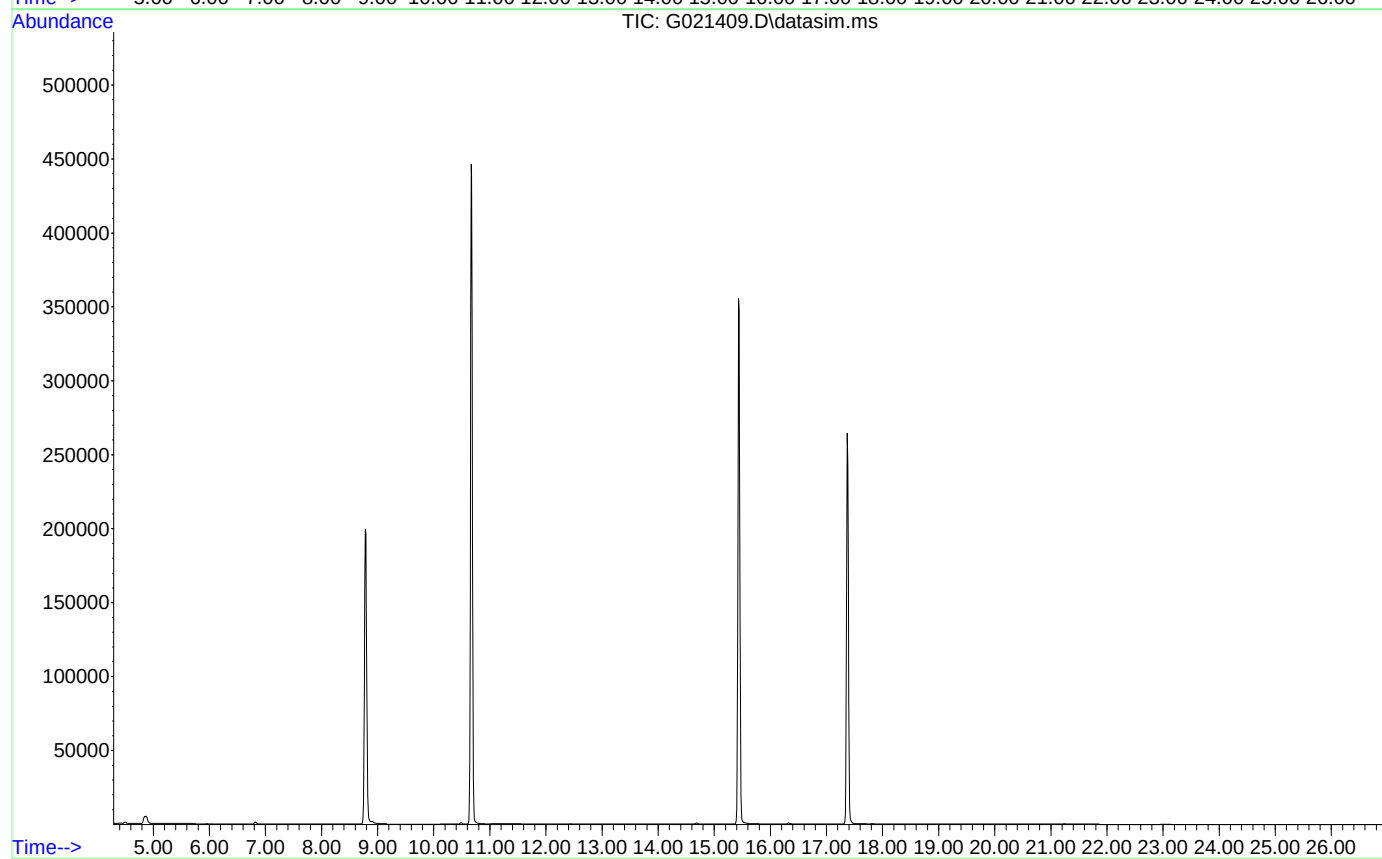
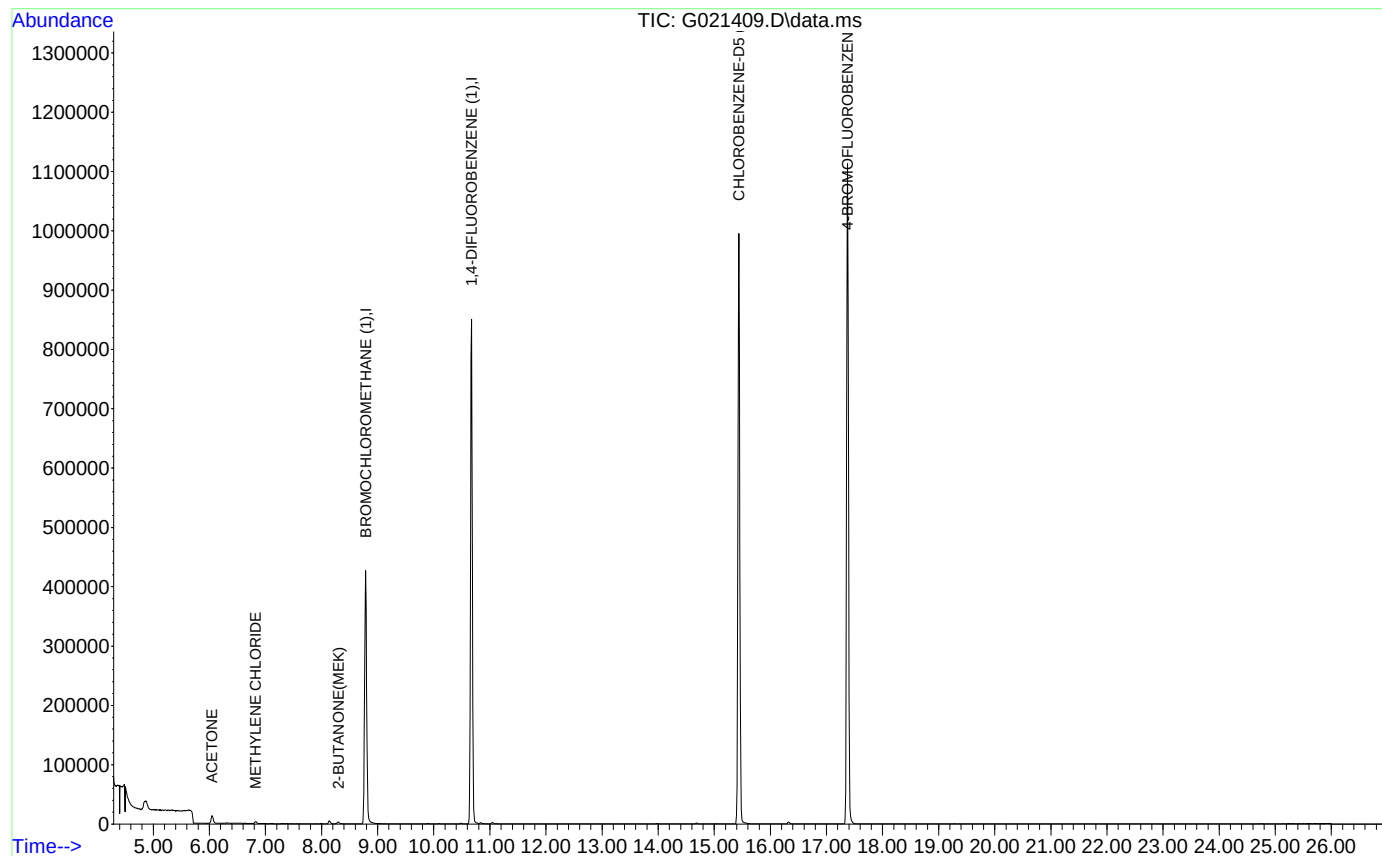
(#) = qualifier out of range (m) = manual integration (+) = signals summed

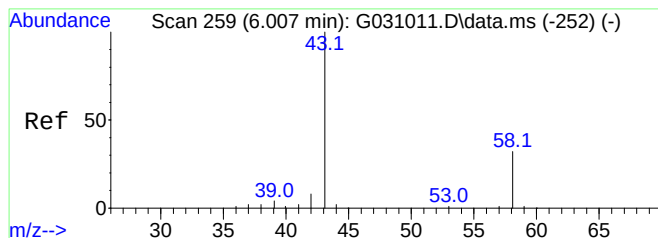
Data File : C:\msdchem\1\data\G021412\G021409.D
Acq On : 14 Feb 2012 4:59 pm
Sample : MBL 0.5x
Misc : 1,1,400,800,0.5x
Quant Time: Feb 15 11:24:23 2012

Vial: 1
Operator: WSD
Inst : SYSG
Multiplr: 1.00

694

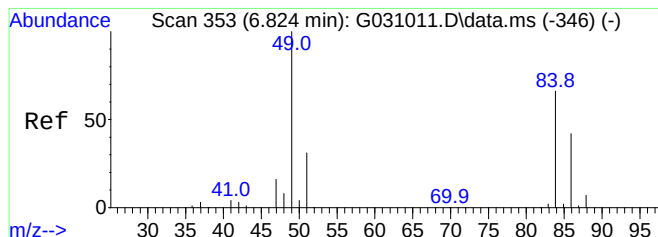
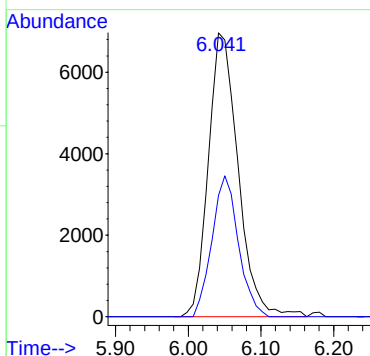
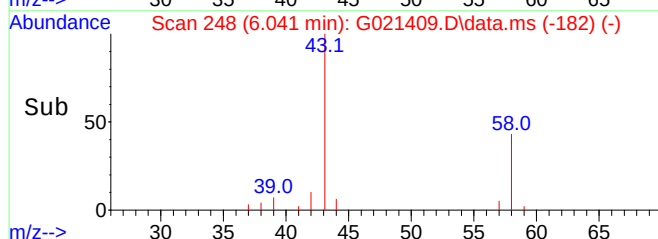
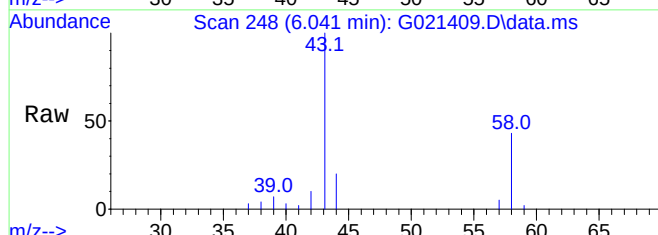
Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





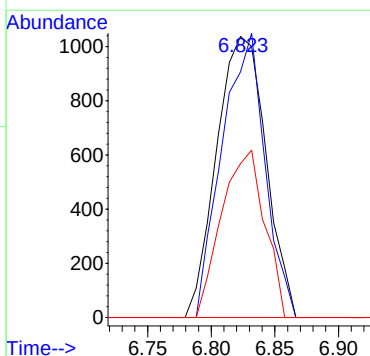
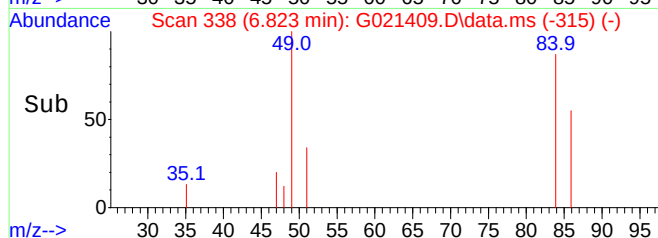
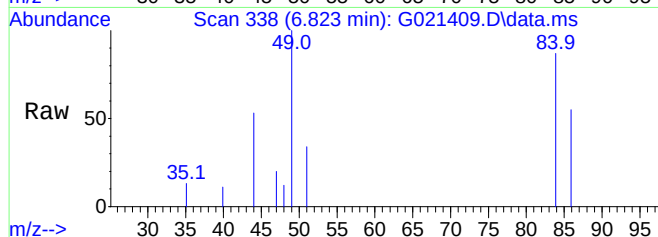
#11
ACETONE
Concen: 0.75 PPBV
RT: 6.041 min Scan# 248
Delta R.T. 0.034 min
Lab File: G021409.D
Acq: 14 Feb 2012 4:59 pm

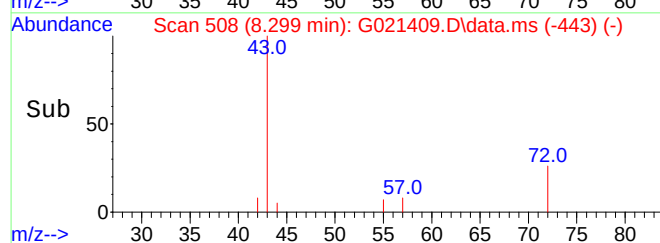
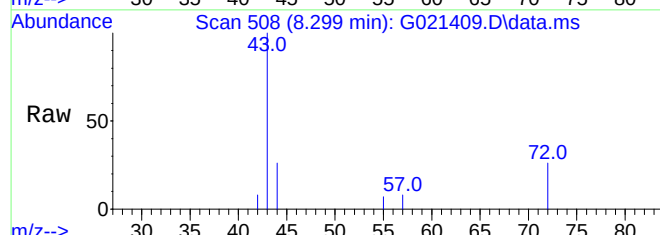
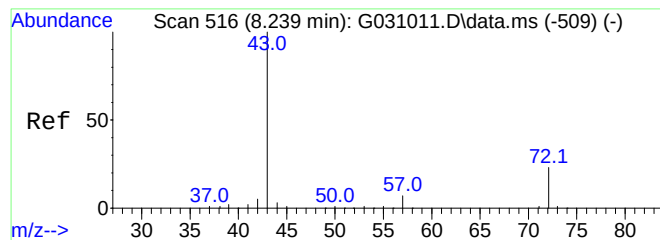
Tgt Ion: 43 Resp: 19828
Ion Ratio Lower Upper
43 100
58 44.0 13.9 53.9



#15
METHYLENE CHLORIDE
Concen: 0.09 PPBV
RT: 6.823 min Scan# 338
Delta R.T. -0.000 min
Lab File: G021409.D
Acq: 14 Feb 2012 4:59 pm

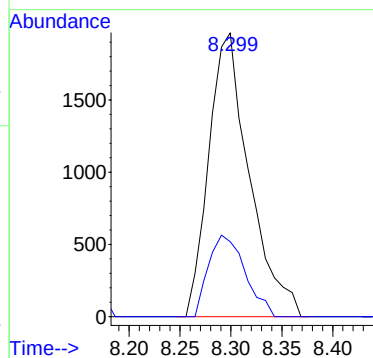
Tgt Ion: 49 Resp: 2800
Ion Ratio Lower Upper
49 100
84 87.7 45.2 85.2#
86 51.9 21.4 61.4





#22
2-BUTANONE (MEK)
Concen: 0.10 PPBV
RT: 8.299 min Scan# 508
Delta R.T. 0.060 min
Lab File: G021409.D
Acq: 14 Feb 2012 4:59 pm

Tgt Ion: 43 Resp: 5447
Ion Ratio Lower Upper
43 100
72 25.9 2.6 42.6



Data File : C:\msdchem\1\data\G021412\G021409.D
Acq On : 14 Feb 2012 4:59 pm
Sample : MBL 0.5x
Misc : 1,1,400,800,0.5x
Quant Time: Feb 15 11:24:44 2012

Vial: 1
Operator: WSD
Inst : SYSG
Multiplr: 1.00

697

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-DIFLUOROBENZENE (2)	10.671	114	851381	8.00	PPBV	0.02
7) CHLOROBENZENE-D5 (2)	15.439	54	153812	8.00	PPBV	0.00

System Monitoring Compounds

10) 4-BROMOFLUOROBENZENE (2)	17.376	95	568025	9.76	PPBV	-0.04
Spiked Amount	8.000	Range	70 - 130	Recovery	=	122.00%

Target Compounds	Qvalue

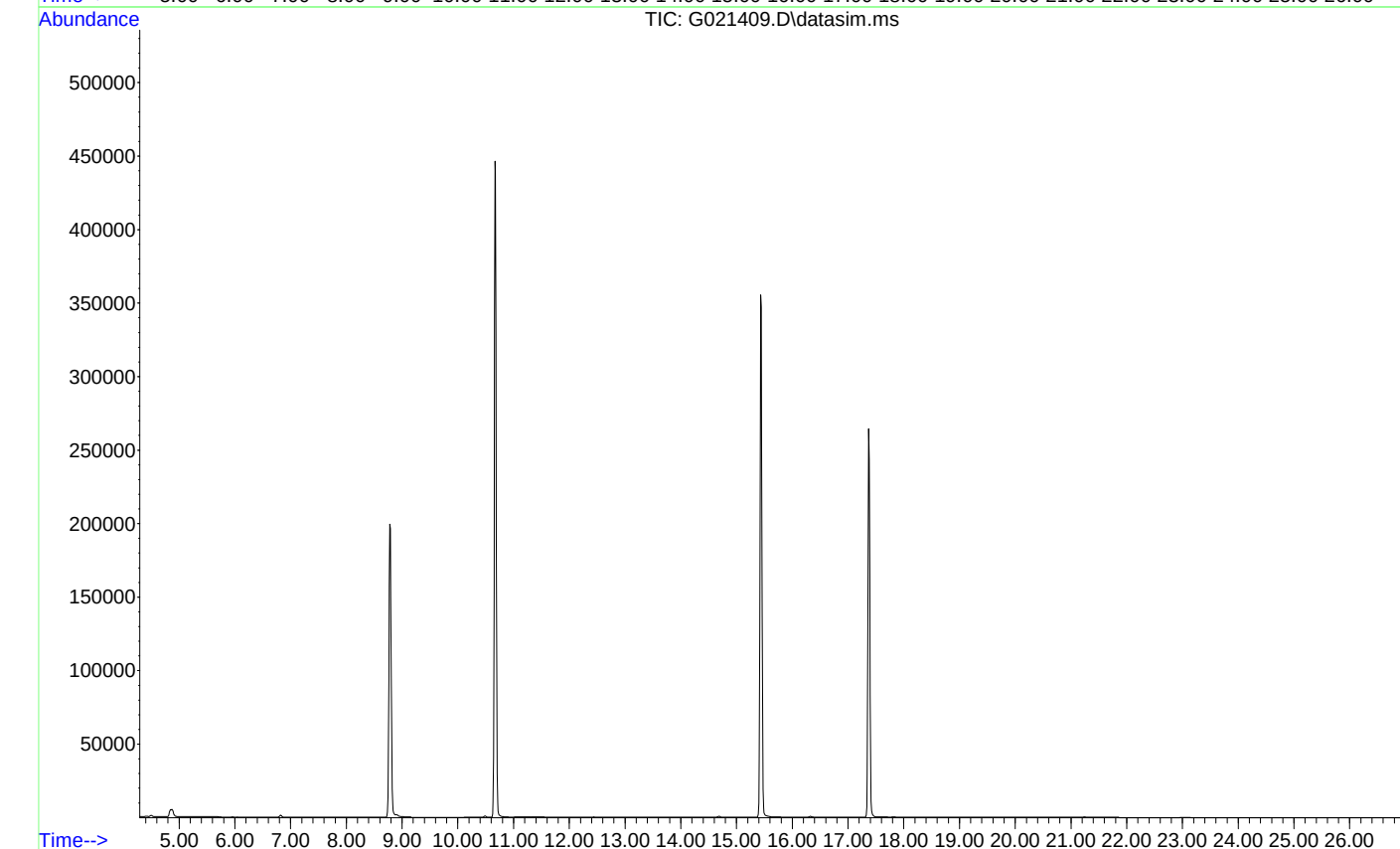
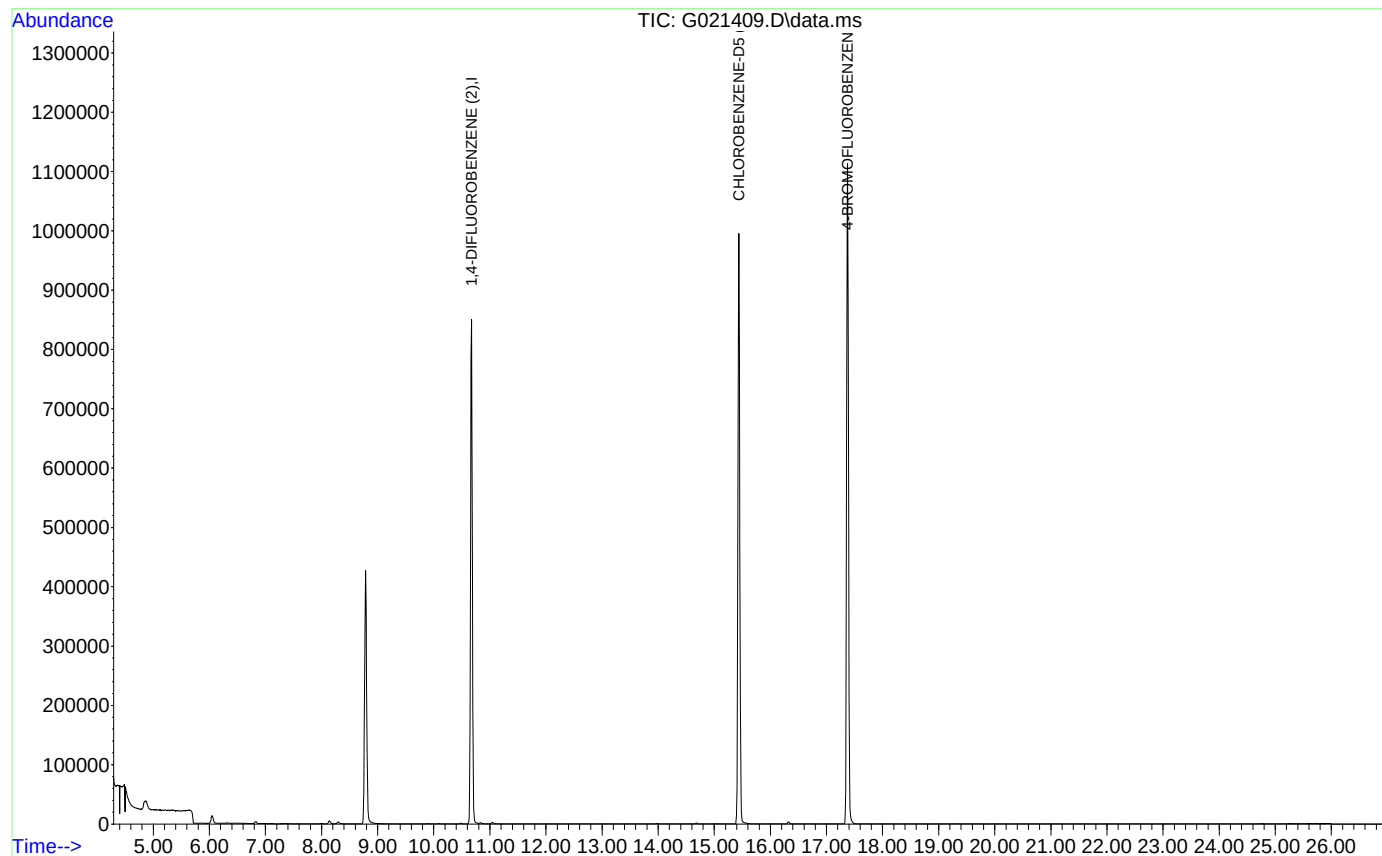
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021412\G021409.D
Acq On : 14 Feb 2012 4:59 pm
Sample : MBL 0.5x
Misc : 1,1,400,800,0.5x
Quant Time: Feb 15 11:24:44 2012

Vial: 1
Operator: WSD
Inst : SYSG
Multiplr: 1.00

698

Quant Method : C:\msdchem\1\methods\EX082410.M
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Wed Aug 25 10:05:43 2010
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Air Laboratory ID: B046247-BS1 File ID: G021403.D
 Sampled: Prepared: 02/14/12 10:43 Analyzed: 02/14/12 12:22
 Solids: Preparation: TO-15 Prep Dilution:
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG
 Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
71-43-2	Benzene	3.92			
100-44-7	Benzyl chloride	6.37			
75-27-4	Bromodichloromethane	4.23			
75-25-2	Bromoform	5.95			
74-83-9	Bromomethane	4.51			
78-93-3	2-Butanone (MEK)	4.75			
75-65-0	tert-Butyl Alcohol (TBA)	1.89			
56-23-5	Carbon Tetrachloride	5.05			
108-90-7	Chlorobenzene	4.70			
75-00-3	Chloroethane	4.64			
67-66-3	Chloroform	5.20			
74-87-3	Chloromethane	4.48			
110-82-7	Cyclohexane	4.28			
124-48-1	Dibromochloromethane	5.20			
106-93-4	1,2-Dibromoethane (EDB)	4.43			
95-50-1	1,2-Dichlorobenzene	5.25			
541-73-1	1,3-Dichlorobenzene	5.40			
106-46-7	1,4-Dichlorobenzene	5.24			
75-71-8	Dichlorodifluoromethane (Freon 12)	5.56			
75-34-3	1,1-Dichloroethane	5.00			
107-06-2	1,2-Dichloroethane	4.71			
75-35-4	1,1-Dichloroethylene	4.67			
156-59-2	cis-1,2-Dichloroethylene	4.63			
156-60-5	trans-1,2-Dichloroethylene	4.78			
78-87-5	1,2-Dichloropropane	3.81			
10061-01-5	cis-1,3-Dichloropropene	4.35			

1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
 Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
 Matrix: Air Laboratory ID: B046247-BS1 File ID: G021403.D
 Sampled: Prepared: 02/14/12 10:43 Analyzed: 02/14/12 12:22
 Solids: Preparation: TO-15 Prep Dilution:
 Batch: B046247 Sequence: S001781 Calibration: 1200017 Instrument: SYSG
 Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	3.94			
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon	4.95			
123-91-1	1,4-Dioxane	4.37			
64-17-5	Ethanol	4.59			
100-41-4	Ethylbenzene	4.62			
87-68-3	Hexachlorobutadiene	5.43			
110-54-3	Hexane	4.96			
1634-04-4	Methyl tert-Butyl Ether (MTBE)	5.14			
75-09-2	Methylene Chloride	4.94			
108-10-1	4-Methyl-2-pentanone (MIBK)	3.62			
100-42-5	Styrene	4.82			
79-34-5	1,1,2,2-Tetrachloroethane	4.57			
127-18-4	Tetrachloroethylene	4.73			
108-88-3	Toluene	4.55			
120-82-1	1,2,4-Trichlorobenzene	5.82			
71-55-6	1,1,1-Trichloroethane	4.25			
79-00-5	1,1,2-Trichloroethane	4.50			
79-01-6	Trichloroethylene	4.24			
75-69-4	Trichlorofluoromethane (Freon 11)	4.75			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	5.91			
95-63-6	1,2,4-Trimethylbenzene	5.03			
108-67-8	1,3,5-Trimethylbenzene	5.08			
540-84-1	2,2,4-Trimethylpentane	1.02			V-05
75-01-4	Vinyl Chloride	4.54			
1330-20-7P/M	m&p-Xylene	9.71			
95-47-6	o-Xylene	4.79			

Data File : C:\msdchem\1\data\G021412\G021403.D
 Acq On : 14 Feb 2012 12:22 pm
 Sample : 5.0PPBV LCS
 Misc : CTWS-2643
 Quant Time: Feb 14 12:51:58 2012

Vial: 23
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

701

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.786	49	325796	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.671	114	1086337	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	968872	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	575954	8.73	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	109.13%
Target Compounds						
						Qvalue
2) PROPENE	4.475	41	110726	5.183	PPBV	99
3) DICHLORODIFLUOROMETHANE	4.549	85	354938	5.559	PPBV	100
4) CHLOROMETHANE	4.703	50	82143	4.475	PPBV	99
5) FREON 114	4.804	85	288820	4.946	PPBV	88
6) VINYL CHLORIDE	4.918	62	98862	4.541	PPBV	99
7) 1,3-BUTADIENE	5.052	54	67650	4.539	PPBV	95
8) BROMOMETHANE	5.306	94	94362	4.510	PPBV	99
9) CHLOROETHANE	5.467	64	46016	4.637	PPBV	98
10) ACROLEIN	5.885	56	28711	3.758	PPBV	97
11) ACETONE	6.015	43	147632	4.659	PPBV	95
12) TRICHLOROFLUOROMETHANE	6.163	101	241654	4.748	PPBV	99
13) ETHANOL	5.581	45	30596	4.589	PPBV	98
14) 1,1-DICHLOROETHENE	6.728	61	230631	4.674	PPBV	89
15) METHYLENE CHLORIDE	6.823	49	175442	4.942	PPBV	76
16) FREON 113	7.075	101	340861	5.909	PPBV	89
17) CARBON DISULFIDE	7.118	76	489541	5.400	PPBV	96
18) TRANS-1,2-DICHLOROETHENE	7.674	61	235137	4.778	PPBV	83
19) 1,1-DICHLOROETHANE	7.865	63	304750	4.998	PPBV	99
20) MTBE	7.952	73	422359	5.138	PPBV	95
21) IPA	6.250	45	124593	3.737	PPBV	87
22) 2-BUTANONE(MEK)	8.239	43	305287	4.754	PPBV	84
23) CIS-1,2-DICHLOROETHENE	8.629	61	214798	4.626	PPBV	82
24) VINYL ACETATE	7.995	43	448608	4.792	PPBV	95
25) HEXANE	8.855	41	165475	4.965	PPBV	86
26) ETHYL ACETATE	8.846	61	58085	5.120	PPBV	88
27) CHLOROFORM	8.907	83	338196	5.199	PPBV	100
28) TETRAHYDROFURAN	9.325	71	78523	5.337	PPBV	99
29) 1,2-DICHLOROETHANE	9.624	62	206702	4.713	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.881	97	308940	4.248	PPBV	98
32) BENZENE	10.338	78	527668	3.917	PPBV	92
33) CARBON TETRACHLORIDE	10.488	117	324802	5.046	PPBV	99
34) CYCLOHEXANE	10.621	84	243541	4.284	PPBV	# 75
35) 1,2-DICHLOROPROPANE	11.162	63	192656	3.811	PPBV	96
36) BROMODICHLOROMETHANE	11.342	83	348518	4.229	PPBV	99
37) TRICHLOROETHENE	11.397	95	232868	4.241	PPBV	88
38) 1,4-DIOXANE	11.413	88	130972	4.366	PPBV	87
39) METHYLMETHACRYLATE	11.594	69	186613	4.296	PPBV	# 77
40) HEPTANE	11.720	57	168632	4.169	PPBV	86
41) MIBK	12.364	43	366450	3.620	PPBV	87
42) CIS-1,3-DICHLOROPROPENE	12.294	75	289884	4.348	PPBV	92
43) TRANS-1,3-DICHLOROPROPENE	12.852	75	245922	3.939	PPBV	92
45) 1,1,2-TRICHLOROETHANE	13.048	97	226671	4.495	PPBV	92
46) TOLUENE	13.379	91	664187	4.551	PPBV	99
47) 2-HEXANONE(MBK)	13.692	43	347949	3.689	PPBV	89
48) DIBROMOCHLOROMETHANE	13.840	129	359241	5.201	PPBV	100
49) 1,2-DIBROMOETHANE	14.127	107	333008	4.426	PPBV	100
50) TETRACHLOROETHENE	14.683	166	297592	4.731	PPBV	95
51) CHLOROBENZENE	15.491	112	551495	4.699	PPBV	92
52) ETHYLBENZENE	15.960	91	850760	4.619	PPBV	96
53) M/P-XYLENE	16.186	91	1414533	9.709	PPBV	99
54) BROMOFORM	16.256	173	338939	5.949	PPBV	100
55) STYRENE	16.638	104	511970	4.816	PPBV	93
56) O-XYLENE	16.786	91	693934	4.788	PPBV	95
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	505809	4.567	PPBV	99
59) 4-ETHYLTOLUENE	18.506	105	960148	5.001	PPBV	97

Data File : C:\msdchem\1\data\G021412\G021403.D
Acq On : 14 Feb 2012 12:22 pm
Sample : 5.0PPBV LCS
Misc : CTWS-2643
Quant Time: Feb 14 12:51:58 2012

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

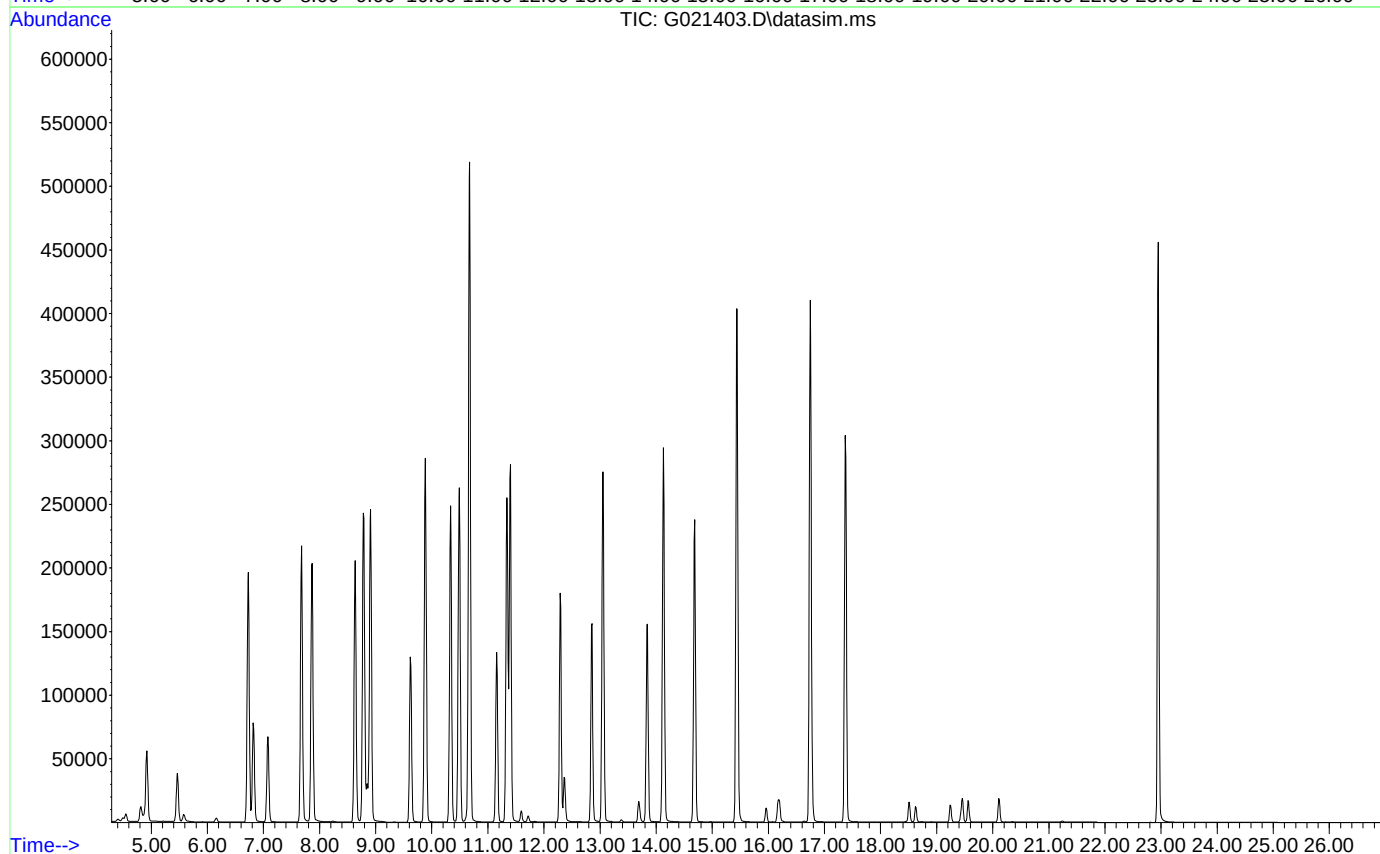
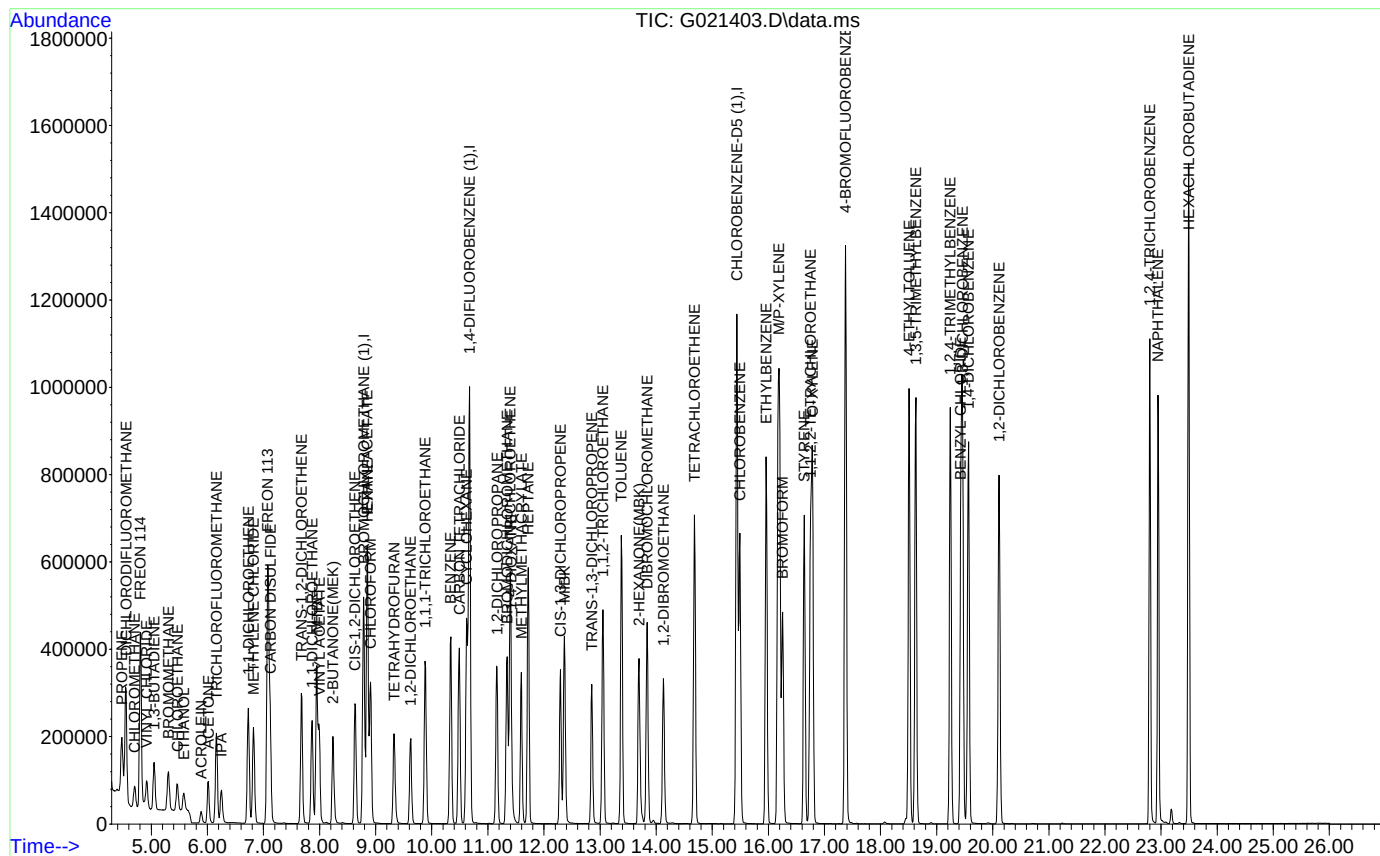
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	806976	5.083	PPBV	95
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	793321	5.033	PPBV	96
62) 1,3-DICHLOROBENZENE	19.462	146	569068	5.398	PPBV	98
63) BENZYL CHLORIDE	19.427	91	655874	6.372	PPBV	95
64) 1,4-DICHLOROBENZENE	19.566	146	565104	5.237	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	524807	5.254	PPBV	97
66) 1,2,4-TRICHLOROBENZENE	22.801	180	418636	5.823	PPBV	100
67) NAPHTHALENE	22.946	128	965235	4.642	PPBV	98
68) HEXACHLOROBUTADIENE	23.491	225	354517	5.432	PPBV	95

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

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

703

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Air Laboratory ID: B046266-BLK1 File ID: G021507.D
Sampled: Prepared: 02/15/12 11:59 Analyzed: 02/15/12 15:54
Solids: Preparation: TO-15 Prep Dilution:
Batch: B046266 Sequence: S001786 Calibration: 1200017 Instrument: SYSG
Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
64-17-5	Ethanol		0.24	2.0	

Data File : C:\msdchem\1\data\G021512\G021507.D
 Acq On : 15 Feb 2012 3:54 pm
 Sample : MBL 0.5x
 Misc : 1,1,400,800,0.5x
 Quant Time: Feb 15 16:49:06 2012

Vial: 1
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	267559	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	848158	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	786102	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.376	174	433916	8.11	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	101.38%
Target Compounds						
						Qvalue

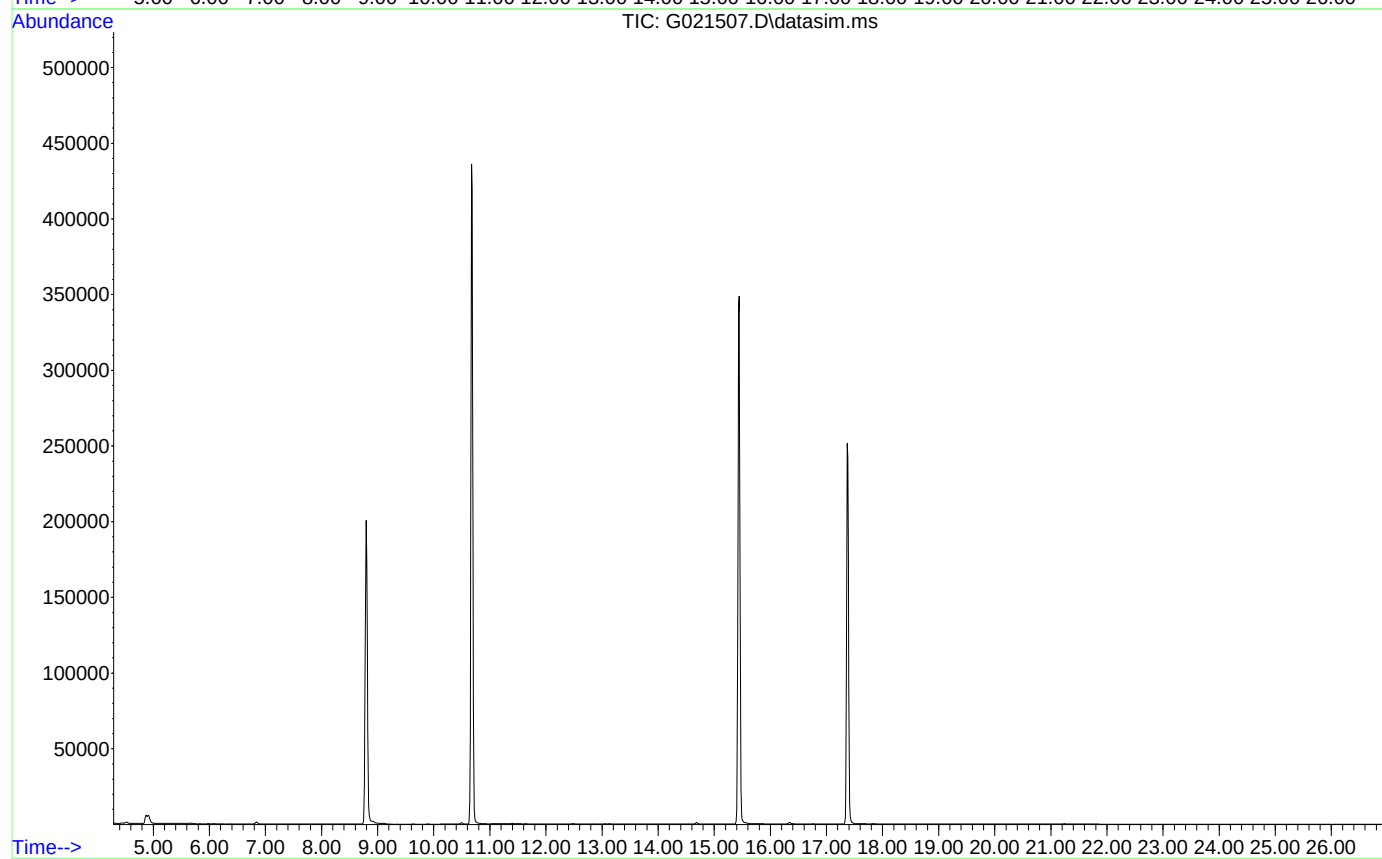
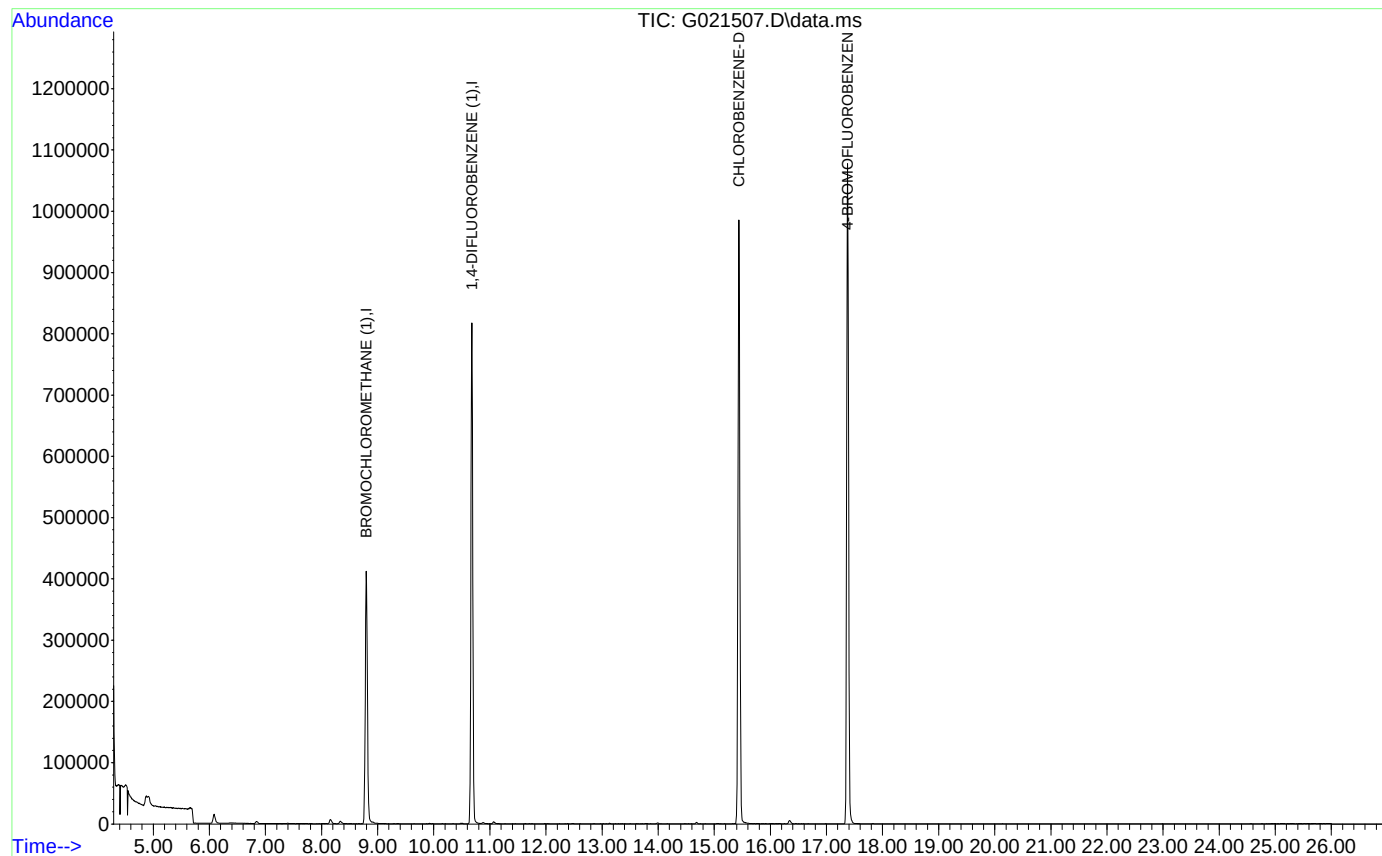
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\msdchem\1\data\G021512\G021507.D
Acq On : 15 Feb 2012 3:54 pm
Sample : MBL 0.5x
Misc : 1,1,400,800,0.5x
Quant Time: Feb 15 16:49:06 2012

Vial: 1
Operator: WSD
Inst : SYSG
Multiplr: 1.00

706

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M





39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 12B0323
Client: Arcadis US, Inc. - Clifton Park-NY Project: Purex-Mitchell Field-NY
Matrix: Air Laboratory ID: B046266-BS1 File ID: G021504.D
Sampled: Prepared: 02/15/12 11:59 Analyzed: 02/15/12 13:53
Solids: Preparation: TO-15 Prep Dilution:
Batch: B046266 Sequence: S001786 Calibration: 1200017 Instrument: SYSG
Column: 1

CAS NO.	COMPOUND	CONC. (ppbv)	MDL	RL	Q
64-17-5	Ethanol	7.14			

Data File : C:\msdchem\1\data\G021512\G021504.D
 Acq On : 15 Feb 2012 1:53 pm
 Sample : 5.0PPBV LCS
 Misc : CTWS-2643
 Quant Time: Feb 15 14:33:52 2012

Vial: 23
 Operator: WSD
 Inst : SYSG
 Multiplr: 1.00

708

Quant Method : C:\msdchem\1\methods\G081011.m
 Quant Title : QUANT FILE FOR T0-14/T0-15
 QLast Update : Mon Aug 15 11:06:02 2011
 Response via : Initial Calibration
 DataAcq Meth:T015RUN.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE (1)	8.794	49	290794	8.00	PPBV	# 0.00
30) 1,4-DIFLUOROBENZENE (1)	10.679	114	916481	8.00	PPBV	0.00
44) CHLOROBENZENE-D5 (1)	15.439	117	798902	8.00	PPBV	0.00
System Monitoring Compounds						
58) 4-BROMOFLUOROBENZENE (1)	17.377	174	469428	8.63	PPBV	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	107.88%
Target Compounds						
						Qvalue
2) PROPENE	4.489	41	94939	4.979	PPBV	98
3) DICHLORODIFLUOROMETHANE	4.562	85	333111	5.845	PPBV	100
4) CHLOROMETHANE	4.723	50	99310	6.061	PPBV	99
5) FREON 114	4.824	85	332766	6.385	PPBV	92
6) VINYL CHLORIDE	4.938	62	122258	6.291	PPBV	100
7) 1,3-BUTADIENE	5.072	54	83376	6.268	PPBV	99
8) BROMOMETHANE	5.326	94	114926	6.154	PPBV	99
9) CHLOROETHANE	5.487	64	58569	6.612	PPBV	97
10) ACROLEIN	5.920	56	36708	5.383	PPBV	97
11) ACETONE	6.041	43	174992	6.188	PPBV	99
12) TRICHLOROFLUOROMETHANE	6.180	101	311937	6.867	PPBV	99
13) ETHANOL	5.628	45	42479	7.138	PPBV	98
14) 1,1-DICHLOROETHENE	6.745	61	207070	4.701	PPBV	90
15) METHYLENE CHLORIDE	6.840	49	155608	4.911	PPBV	77
16) FREON 113	7.101	101	288683	5.606	PPBV	90
17) CARBON DISULFIDE	7.136	76	405304	5.009	PPBV	97
18) TRANS-1,2-DICHLOROETHENE	7.691	61	203569	4.634	PPBV	85
19) 1,1-DICHLOROETHANE	7.882	63	263472	4.841	PPBV	99
20) MTBE	7.969	73	365105	4.977	PPBV	96
21) IPA	6.302	45	153860	5.171	PPBV	89
22) 2-BUTANONE(MEK)	8.256	43	264378	4.612	PPBV	86
23) CIS-1,2-DICHLOROETHENE	8.647	61	191076	4.610	PPBV	86
24) VINYL ACETATE	8.013	43	385598	4.615	PPBV	96
25) HEXANE	8.864	41	146979	4.941	PPBV	88
26) ETHYL ACETATE	8.864	61	51232	5.059	PPBV	91
27) CHLOROFORM	8.925	83	299010	5.150	PPBV	100
28) TETRAHYDROFURAN	9.350	71	66973	5.100	PPBV	99
29) 1,2-DICHLOROETHANE	9.632	62	187756	4.796	PPBV	99
31) 1,1,1-TRICHLOROETHANE	9.898	97	279910	4.562	PPBV	97
32) BENZENE	10.346	78	460441	4.052	PPBV	94
33) CARBON TETRACHLORIDE	10.496	117	294195	5.418	PPBV	100
34) CYCLOHEXANE	10.629	84	211159	4.403	PPBV	# 77
35) 1,2-DICHLOROPROPANE	11.169	63	172131	4.036	PPBV	96
36) BROMODICHLOROMETHANE	11.350	83	308439	4.437	PPBV	100
37) TRICHLOROETHENE	11.405	95	198213	4.279	PPBV	90
38) 1,4-DIOXANE	11.445	88	107095	4.232	PPBV	89
39) METHYLMETHACRYLATE	11.610	69	158695	4.331	PPBV	80
40) HEPTANE	11.728	57	147356	4.318	PPBV	89
41) MIBK	12.388	43	320180	3.749	PPBV	89
42) CIS-1,3-DICHLOROPROPENE	12.301	75	246396	4.380	PPBV	93
43) TRANS-1,3-DICHLOROPROPENE	12.860	75	213134	4.047	PPBV	94
45) 1,1,2-TRICHLOROETHANE	13.056	97	193804	4.661	PPBV	93
46) TOLUENE	13.388	91	558983	4.645	PPBV	99
47) 2-HEXANONE(MBK)	13.718	43	300734	3.867	PPBV	90
48) DIBROMOCHLOROMETHANE	13.840	129	310122	5.445	PPBV	100
49) 1,2-DIBROMOETHANE	14.135	107	282086	4.547	PPBV	100
50) TETRACHLOROETHENE	14.683	166	250172	4.824	PPBV	96
51) CHLOROBENZENE	15.491	112	469735	4.854	PPBV	93
52) ETHYLBENZENE	15.960	91	730746	4.811	PPBV	96
53) M/P-XYLENE	16.195	91	1225806	10.204	PPBV	100
54) BROMOFORM	16.256	173	286481	6.098	PPBV	100
55) STYRENE	16.638	104	427679	4.879	PPBV	95
56) O-XYLENE	16.786	91	597265	4.997	PPBV	95
57) 1,1,2,2-TETRACHLOROETHANE	16.751	83	431768	4.728	PPBV	99
59) 4-ETHYLTOLUENE	18.506	105	821988	5.192	PPBV	97

Data File : C:\msdchem\1\data\G021512\G021504.D
Acq On : 15 Feb 2012 1:53 pm
Sample : 5.0PPBV LCS
Misc : CTWS-2643
Quant Time: Feb 15 14:33:52 2012

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

709

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M

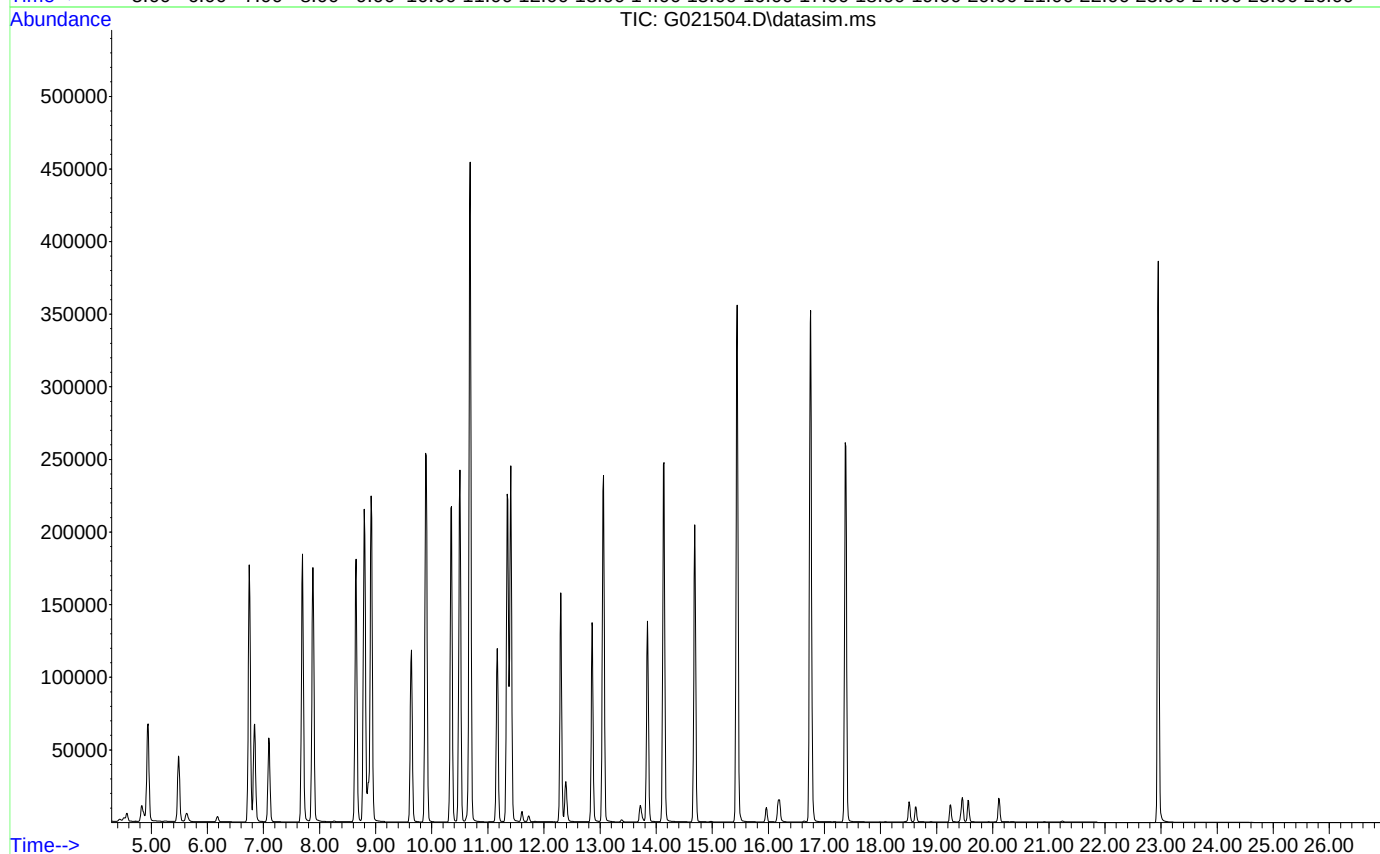
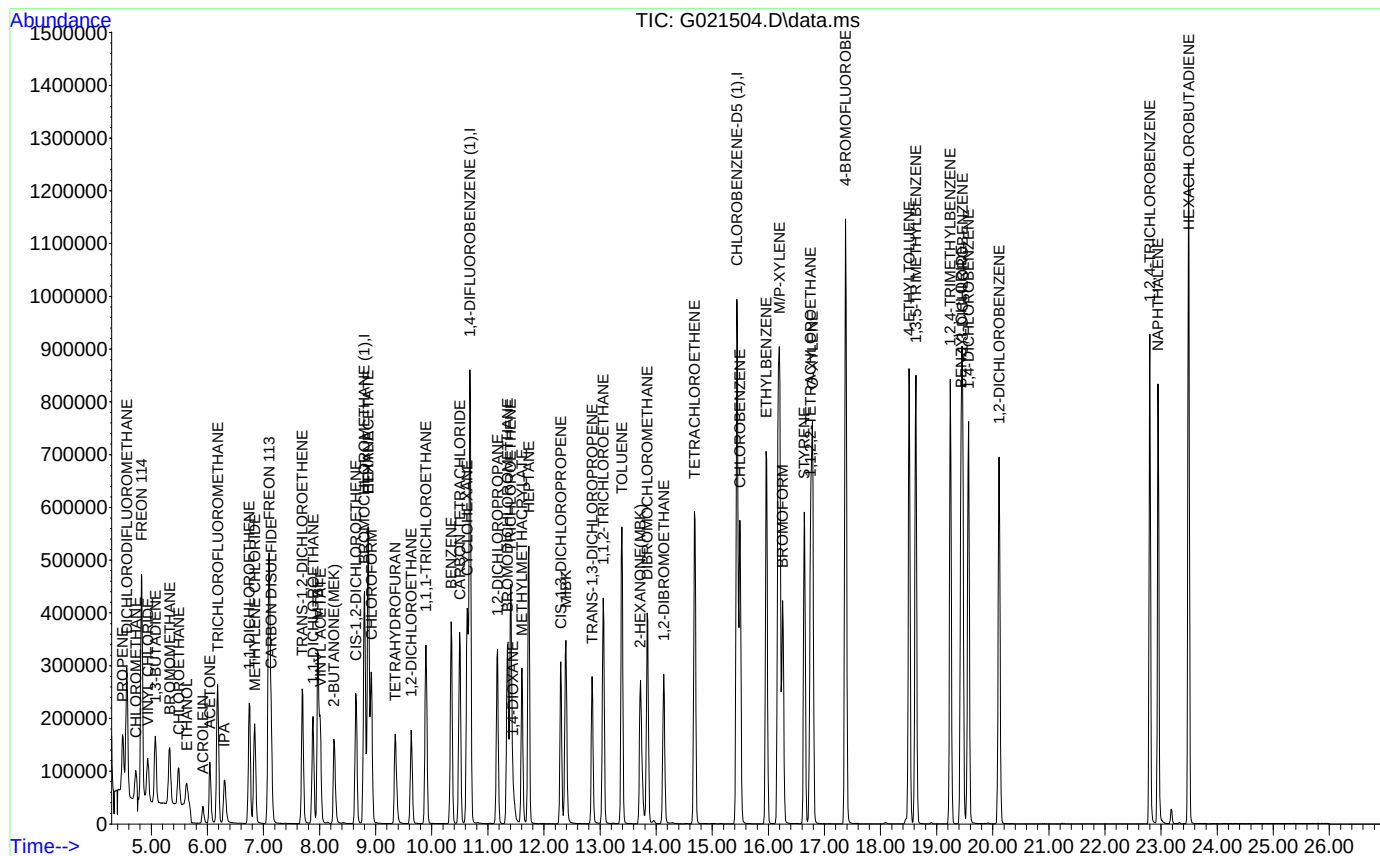
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 1,3,5-TRIMETHYLBENZENE	18.628	105	687222	5.250	PPBV	96
61) 1,2,4-TRIMETHYLBENZENE	19.245	105	671188	5.164	PPBV	96
62) 1,3-DICHLOROBENZENE	19.462	146	480241	5.524	PPBV	98
63) BENZYL CHLORIDE	19.436	91	567247	6.683	PPBV	96
64) 1,4-DICHLOROBENZENE	19.566	146	477505	5.366	PPBV	98
65) 1,2-DICHLOROBENZENE	20.114	146	441472	5.360	PPBV	98
66) 1,2,4-TRICHLOROBENZENE	22.801	180	342304	5.775	PPBV	100
67) NAPHTHALENE	22.945	128	803485	4.686	PPBV	98
68) HEXACHLOROBUTADIENE	23.491	225	287323	5.339	PPBV	97

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

Vial: 23
Operator: WSD
Inst : SYSG
Multiplr: 1.00

710

Quant Method : C:\msdchem\1\methods\G081011.m
Quant Title : QUANT FILE FOR T0-14/T0-15
QLast Update : Mon Aug 15 11:06:02 2011
Response via : Initial Calibration
DataAcq Meth:T015RUN.M



ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-IA01
 Sample ID: 12B0323-02
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1333
 Canister Size: 6 liter
 Flow Controller ID: 3120
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -
 Receipt Vacuum(in Hg): -8.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	1.0	0.035		3.2	0.11	0.702	2/14/12 19:16	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 19:16	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 19:16	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 19:16	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 19:16	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 19:16	WSD
Carbon Tetrachloride	0.071	0.035		0.45	0.22	0.702	2/14/12 19:16	WSD
Chlorobenzene	0.042	0.035		0.19	0.16	0.702	2/14/12 19:16	WSD
Chloroethane	0.10	0.035		0.27	0.093	0.702	2/14/12 19:16	WSD
Chloroform	0.055	0.035		0.27	0.17	0.702	2/14/12 19:16	WSD
Chloromethane	1.0	0.035		2.1	0.072	0.702	2/14/12 19:16	WSD
Cyclohexane	0.38	0.035		1.3	0.12	0.702	2/14/12 19:16	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 19:16	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 19:16	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 19:16	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 19:16	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 19:16	WSD
Dichlorodifluoromethane (Freon 12)	0.52	0.035		2.6	0.17	0.702	2/14/12 19:16	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD
1,2-Dichloroethane	0.041	0.035	NJ	0.17	0.14	0.702	2/14/12 19:16	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 19:16	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 19:16	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 19:16	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 19:16	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 19:16	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 19:16	WSD
Ethanol	12	1.4	J	23	2.6	0.702	2/14/12 19:16	WSD
Ethylbenzene	0.52	0.035		2.3	0.15	0.702	2/14/12 19:16	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 19:16	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 19:16	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 19:16	WSD
Methylene Chloride	0.38	0.35		1.3	1.2	0.702	2/14/12 19:16	WSD
4-Methyl-2-pentanone (MIBK)	0.16	0.035		0.64	0.14	0.702	2/14/12 19:16	WSD
Styrene	0.19	0.035		0.81	0.15	0.702	2/14/12 19:16	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-IA01
Sample ID: 12B0323-02
Sample Matrix: Indoor air
Sampled: 2/8/2012 14:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 1333
Canister Size: 6 liter
Flow Controller ID: 3120
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -
Receipt Vacuum(in Hg): -8.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 19:16	WSD
Tetrachloroethylene	0.072	0.035		0.49	0.24	0.702	2/14/12 19:16	WSD
Toluene	3.7	0.035		14	0.13	0.702	2/14/12 19:16	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 19:16	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 19:16	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 19:16	WSD
Trichloroethylene	0.094	0.035		0.51	0.19	0.702	2/14/12 19:16	WSD
Trichlorofluoromethane (Freon 11)	0.33	0.035		1.8	0.20	0.702	2/14/12 19:16	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.035		0.61	0.27	0.702	2/14/12 19:16	WSD
1,2,4-Trimethylbenzene	0.41	0.035		2.0	0.17	0.702	2/14/12 19:16	WSD
1,3,5-Trimethylbenzene	0.11	0.035		0.53	0.17	0.702	2/14/12 19:16	WSD
2,2,4-Trimethylpentane	0.37	0.094	V-05 J	1.7	0.44	0.702	2/14/12 19:16	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 19:16	WSD
m&p-Xylene	2.0	0.070		8.9	0.30	0.702	2/14/12 19:16	WSD
o-Xylene	0.68	0.035		2.9	0.15	0.702	2/14/12 19:16	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/14/12 19:16
4-Bromofluorobenzene (2)	120	70-130	2/14/12 19:16

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-SS02
 Sample ID: 12B0323-03
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:50

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1481
 Canister Size: 6 liter
 Flow Controller ID: 3192
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -8.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Flag	Results	RL		Analyzed		
Benzene	0.33	0.10		1.0	0.32	2	2/13/12 10:50	WSD	
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 10:50	WSD	
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 10:50	WSD	
Bromoform	ND	0.10		ND	1.0	2	2/13/12 10:50	WSD	
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 10:50	WSD	
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 10:50	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 10:50	WSD	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 10:50	WSD	
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 10:50	WSD	
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 10:50	WSD	
Chloroform	0.81	0.10		4.0	0.49	2	2/13/12 10:50	WSD	
Chloromethane	0.41	0.10		0.84	0.21	2	2/13/12 10:50	WSD	
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 10:50	WSD	
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 10:50	WSD	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 10:50	WSD	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 10:50	WSD	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 10:50	WSD	
1,4-Dichlorobenzene	0.16	0.10		0.95	0.60	2	2/13/12 10:50	WSD	
Dichlorodifluoromethane (Freon 12)	0.59	0.10		2.9	0.49	2	2/13/12 10:50	WSD	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 10:50	WSD	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 10:50	WSD	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 10:50	WSD	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 10:50	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 10:50	WSD	
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 10:50	WSD	
Ethanol	ND	4.0	UJ	ND	7.5	2	2/13/12 10:50	WSD	
Ethylbenzene	0.44	0.10		1.9	0.43	2	2/13/12 10:50	WSD	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 10:50	WSD	
Hexane	ND	4.0		ND	14	2	2/13/12 10:50	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 10:50	WSD	
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 10:50	WSD	
4-Methyl-2-pentanone (MIBK)	0.19	0.10	V-05 J	0.76	0.41	2	2/13/12 10:50	WSD	
Styrene	0.15	0.10		0.63	0.43	2	2/13/12 10:50	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-SS02
 Sample ID: 12B0323-03
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 14:50

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1481
 Canister Size: 6 liter
 Flow Controller ID: 3192
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -8.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analzyed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 10:50	WSD	
Tetrachloroethylene	0.45	0.10		3.1	0.68	2	2/13/12 10:50	WSD	
Toluene	3.2	0.10		12	0.38	2	2/13/12 10:50	WSD	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 10:50	WSD	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 10:50	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 10:50	WSD	
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 10:50	WSD	
Trichlorofluoromethane (Freon 11)	1.0	0.10		5.8	0.56	2	2/13/12 10:50	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 10:50	WSD	
1,2,4-Trimethylbenzene	0.21	0.10		1.1	0.49	2	2/13/12 10:50	WSD	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 10:50	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05 WJ	ND	1.3	2	2/13/12 10:50	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 10:50	WSD	
m&p-Xylene	2.0	0.20		8.6	0.87	2	2/13/12 10:50	WSD	
o-Xylene	0.57	0.10		2.5	0.43	2	2/13/12 10:50	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 10:50
4-Bromofluorobenzene (2)	118	70-130	2/13/12 10:50

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-IA02
 Sample ID: 12B0323-04
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 14:50

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1473
 Canister Size: 6 liter
 Flow Controller ID: 3191
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	0.88	0.035		2.8	0.11	0.702	2/14/12 20:02	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 20:02	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 20:02	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 20:02	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 20:02	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 20:02	WSD
Carbon Tetrachloride	0.060	0.035		0.38	0.22	0.702	2/14/12 20:02	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 20:02	WSD
Chloroform	0.057	0.035		0.28	0.17	0.702	2/14/12 20:02	WSD
Chloromethane	0.54	0.035		1.1	0.072	0.702	2/14/12 20:02	WSD
Cyclohexane	0.26	0.035		0.89	0.12	0.702	2/14/12 20:02	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 20:02	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 20:02	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:02	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:02	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:02	WSD
Dichlorodifluoromethane (Freon 12)	0.52	0.035		2.6	0.17	0.702	2/14/12 20:02	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD
1,2-Dichloroethane	0.039	0.035		0.16	0.14	0.702	2/14/12 20:02	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:02	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:02	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 20:02	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 20:02	WSD
Ethanol	10	1.4	J	20	2.6	0.702	2/14/12 20:02	WSD
Ethylbenzene	0.56	0.035		2.5	0.15	0.702	2/14/12 20:02	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 20:02	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 20:02	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 20:02	WSD
Methylene Chloride	0.56	0.35		2.0	1.2	0.702	2/14/12 20:02	WSD
4-Methyl-2-pentanone (MIBK)	0.088	0.035		0.36	0.14	0.702	2/14/12 20:02	WSD
Styrene	0.14	0.035		0.61	0.15	0.702	2/14/12 20:02	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-IA02
Sample ID: 12B0323-04
Sample Matrix: Indoor air
Sampled: 2/8/2012 14:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1473
Canister Size: 6 liter
Flow Controller ID: 3191
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 20:02	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12 20:02	WSD
Toluene	5.8	0.035		22	0.13	0.702	2/14/12 20:02	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 20:02	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 20:02	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 20:02	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 20:02	WSD
Trichlorofluoromethane (Freon 11)	0.30	0.035		1.7	0.20	0.702	2/14/12 20:02	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.035		0.59	0.27	0.702	2/14/12 20:02	WSD
1,2,4-Trimethylbenzene	0.31	0.035		1.5	0.17	0.702	2/14/12 20:02	WSD
1,3,5-Trimethylbenzene	0.078	0.035		0.38	0.17	0.702	2/14/12 20:02	WSD
2,2,4-Trimethylpentane	0.29	0.094	V-05 J	1.4	0.44	0.702	2/14/12 20:02	WSD
Vinyl Chloride	0.049	0.035		0.13	0.090	0.702	2/14/12 20:02	WSD
m&p-Xylene	2.1	0.070		8.9	0.30	0.702	2/14/12 20:02	WSD
o-Xylene	0.64	0.035		2.8	0.15	0.702	2/14/12 20:02	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/14/12 20:02
4-Bromofluorobenzene (2)	122	70-130	2/14/12 20:02

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS03
Sample ID: 12B0323-05
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:09

Sample Description/Location:
Sub Description/Location:
Canister ID: 1334
Canister Size: 6 liter
Flow Controller ID: 3176
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time	
	Results	RL	Results		RL	Analyzed		Analyst	
Benzene	ND	0.10			ND	0.32	2	2/13/12 11:31	WSD
Benzyl chloride	ND	0.10			ND	0.52	2	2/13/12 11:31	WSD
Bromodichloromethane	ND	0.10			ND	0.67	2	2/13/12 11:31	WSD
Bromoform	ND	0.10			ND	1.0	2	2/13/12 11:31	WSD
Bromomethane	ND	0.10			ND	0.39	2	2/13/12 11:31	WSD
2-Butanone (MEK)	ND	4.0			ND	12	2	2/13/12 11:31	WSD
tert-Butyl Alcohol (TBA)	ND	0.41			ND	1.2	2	2/13/12 11:31	WSD
Carbon Tetrachloride	ND	0.10			ND	0.63	2	2/13/12 11:31	WSD
Chlorobenzene	ND	0.10			ND	0.46	2	2/13/12 11:31	WSD
Chloroethane	ND	0.10			ND	0.26	2	2/13/12 11:31	WSD
Chloroform	0.27	0.10			1.3	0.49	2	2/13/12 11:31	WSD
Chloromethane	0.13	0.10			0.28	0.21	2	2/13/12 11:31	WSD
Cyclohexane	ND	0.10			ND	0.34	2	2/13/12 11:31	WSD
Dibromochloromethane	ND	0.10			ND	0.85	2	2/13/12 11:31	WSD
1,2-Dibromoethane (EDB)	ND	0.10			ND	0.77	2	2/13/12 11:31	WSD
1,2-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 11:31	WSD
1,3-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 11:31	WSD
1,4-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 11:31	WSD
Dichlorodifluoromethane (Freon 12)	0.58	0.10			2.9	0.49	2	2/13/12 11:31	WSD
1,1-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 11:31	WSD
1,2-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 11:31	WSD
1,1-Dichloroethylenc	ND	0.10			ND	0.40	2	2/13/12 11:31	WSD
cis-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 11:31	WSD
trans-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 11:31	WSD
1,2-Dichloropropane	ND	0.10			ND	0.46	2	2/13/12 11:31	WSD
cis-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 11:31	WSD
trans-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 11:31	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10			ND	0.70	2	2/13/12 11:31	WSD
1,4-Dioxane	ND	0.10			ND	0.36	2	2/13/12 11:31	WSD
Ethanol	12	4.0	J		23	7.5	2	2/13/12 11:31	WSD
Ethylbenzene	ND	0.10			ND	0.43	2	2/13/12 11:31	WSD
Hexachlorobutadiene	ND	0.10			ND	1.1	2	2/13/12 11:31	WSD
Hexane	ND	4.0			ND	14	2	2/13/12 11:31	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10			ND	0.36	2	2/13/12 11:31	WSD
Methylene Chloride	ND	1.0			ND	3.5	2	2/13/12 11:31	WSD
4-Methyl-2-pentanonc (MIBK)	ND	0.10	V-05	UJ	ND	0.41	2	2/13/12 11:31	WSD
Styrene	ND	0.10			ND	0.43	2	2/13/12 11:31	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-SS03
 Sample ID: 12B0323-05
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 15:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1334
 Canister Size: 6 liter
 Flow Controller ID: 3176
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 11:31	WSD
Tetrachloroethylene	ND	0.10		ND	0.68	2	2/13/12 11:31	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12 11:31	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 11:31	WSD
1,1,1-Trichloroethane	0.46	0.10		2.5	0.55	2	2/13/12 11:31	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 11:31	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 11:31	WSD
Trichlorofluoromethane (Freon 11)	0.96	0.10		5.4	0.56	2	2/13/12 11:31	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 11:31	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 11:31	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 11:31	WSD
2,2,4-Trimethylpentane	ND	0.27	V-05 WJ	ND	1.3	2	2/13/12 11:31	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 11:31	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 11:31	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 11:31	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 11:31
4-Bromofluorobenzene (2)	118	70-130	2/13/12 11:31

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-IA03
Sample ID: 12B0323-06
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:09

Sample Description/Location:
Sub Description/Location:
Canister ID: 1640
Canister Size: 6 liter
Flow Controller ID: 3238
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	1.6	0.035		5.0	0.11	0.702	2/14/12 20:48	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 20:48	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 20:48	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 20:48	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 20:48	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 20:48	WSD
Carbon Tetrachloride	0.074	0.035		0.47	0.22	0.702	2/14/12 20:48	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 20:48	WSD
Chloroform	0.063	0.035		0.31	0.17	0.702	2/14/12 20:48	WSD
Chloromethane	0.71	0.035		1.5	0.072	0.702	2/14/12 20:48	WSD
Cyclohexane	0.81	0.035		2.8	0.12	0.702	2/14/12 20:48	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 20:48	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 20:48	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:48	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:48	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 20:48	WSD
Dichlorodifluoromethane (Freon 12)	0.51	0.035		2.5	0.17	0.702	2/14/12 20:48	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD
1,2-Dichloroethane	0.061	0.035	NJ	0.25	0.14	0.702	2/14/12 20:48	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 20:48	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 20:48	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 20:48	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 20:48	WSD
Ethanol	53	1.4	J	99	2.6	0.702	2/14/12 20:48	WSD
Ethylbenzene	0.59	0.035		2.6	0.15	0.702	2/14/12 20:48	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 20:48	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 20:48	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 20:48	WSD
Methylene Chloride	0.36	0.35		1.2	1.2	0.702	2/14/12 20:48	WSD
4-Methyl-2-pentanone (MIBK)	0.19	0.035		0.78	0.14	0.702	2/14/12 20:48	WSD
Styrene	0.11	0.035		0.48	0.15	0.702	2/14/12 20:48	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-IA03
 Sample ID: 12B0323-06
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 15:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1640
 Canister Size: 6 liter
 Flow Controller ID: 3238
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 20:48	WSD
Tetrachloroethylene	0.036	0.035		0.25	0.24	0.702	2/14/12 20:48	WSD
Toluene	5.8	0.035		22	0.13	0.702	2/14/12 20:48	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 20:48	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 20:48	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 20:48	WSD
Trichloroethylene	0.052	0.035		0.28	0.19	0.702	2/14/12 20:48	WSD
Trichlorofluoromethane (Freon 11)	0.32	0.035		1.8	0.20	0.702	2/14/12 20:48	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.078	0.035		0.60	0.27	0.702	2/14/12 20:48	WSD
1,2,4-Trimethylbenzene	0.42	0.035		2.0	0.17	0.702	2/14/12 20:48	WSD
1,3,5-Trimethylbenzene	0.18	0.035		0.86	0.17	0.702	2/14/12 20:48	WSD
2,2,4-Trimethylpentane	0.52	0.094	V-05 J	2.4	0.44	0.702	2/14/12 20:48	WSD
Vinyl Chloride	0.13	0.035		0.34	0.090	0.702	2/14/12 20:48	WSD
m&p-Xylene	1.8	0.070		7.9	0.30	0.702	2/14/12 20:48	WSD
o-Xylene	0.69	0.035		3.0	0.15	0.702	2/14/12 20:48	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	2/14/12 20:48
4-Bromofluorobenzene (2)	121	70-130	2/14/12 20:48

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-SS04
 Sample ID: 12B0323-07
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 15:11

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1818
 Canister Size: 6 liter
 Flow Controller ID: 3038
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -6.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	ND	0.10		ND	0.32	2	2/13/12 12:12	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 12:12	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 12:12	WSD
Bromoform	ND	0.10		ND	1.0	2	2/13/12 12:12	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 12:12	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 12:12	WSD
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 12:12	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 12:12	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 12:12	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 12:12	WSD
Chloroform	ND	0.10		ND	0.49	2	2/13/12 12:12	WSD
Chloromethane	ND	0.10		ND	0.21	2	2/13/12 12:12	WSD
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 12:12	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 12:12	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 12:12	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 12:12	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 12:12	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 12:12	WSD
Dichlorodifluoromethane (Freon 12)	0.59	0.10		2.9	0.49	2	2/13/12 12:12	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 12:12	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 12:12	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 12:12	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 12:12	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 12:12	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 12:12	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 12:12	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 12:12	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 12:12	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 12:12	WSD
Ethanol	ND	4.0	UJ	ND	7.5	2	2/13/12 12:12	WSD
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12 12:12	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 12:12	WSD
Hexane	ND	4.0		ND	14	2	2/13/12 12:12	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 12:12	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	2/13/12 12:12	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05 UJ	ND	0.41	2	2/13/12 12:12	WSD
Styrene	ND	0.10		ND	0.43	2	2/13/12 12:12	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-SS04
Sample ID: 12B0323-07
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:11

Sample Description/Location:
Sub Description/Location:
Canister ID: 1818
Canister Size: 6 liter
Flow Controller ID: 3038
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 12:12	WSD
Tetrachloroethylene	0.83	0.10		5.6	0.68	2	2/13/12 12:12	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12 12:12	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 12:12	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 12:12	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 12:12	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 12:12	WSD
Trichlorofluoromethane (Freon 11)	0.74	0.10		4.1	0.56	2	2/13/12 12:12	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 12:12	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 12:12	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 12:12	WSD
2,2,4-Trimethylpentane	ND	0.27	V-05 <i>US</i>	ND	1.3	2	2/13/12 12:12	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 12:12	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 12:12	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 12:12	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	2/13/12 12:12
4-Bromofluorobenzene (2)	118	70-130	2/13/12 12:12

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-1A04
 Sample ID: 12B0323-08
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 15:11

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1263
 Canister Size: 6 liter
 Flow Controller ID: 3264
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -6.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	1.9	0.035		6.1	0.11	0.702	2/14/12 21:33	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 21:33	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 21:33	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 21:33	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 21:33	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 21:33	WSD
Carbon Tetrachloride	0.072	0.035		0.45	0.22	0.702	2/14/12 21:33	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 21:33	WSD
Chloroform	0.055	0.035		0.27	0.17	0.702	2/14/12 21:33	WSD
Chloromethane	0.64	0.035		1.3	0.072	0.702	2/14/12 21:33	WSD
Cyclohexane	0.28	0.035		0.96	0.12	0.702	2/14/12 21:33	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 21:33	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 21:33	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 21:33	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 21:33	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 21:33	WSD
Dichlorodifluoromethane (Freon 12)	0.53	0.035		2.6	0.17	0.702	2/14/12 21:33	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD
1,2-Dichloroethane	0.049	0.035		0.20	0.14	0.702	2/14/12 21:33	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 21:33	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 21:33	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 21:33	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 21:33	WSD
Ethanol	13	1.4		24	2.6	0.702	2/14/12 21:33	WSD
Ethylbenzene	0.66	0.035		2.9	0.15	0.702	2/14/12 21:33	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 21:33	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 21:33	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 21:33	WSD
Methylene Chloride	0.95	0.35		3.3	1.2	0.702	2/14/12 21:33	WSD
4-Methyl-2-pentanone (MIBK)	0.095	0.035		0.39	0.14	0.702	2/14/12 21:33	WSD
Styrene	0.47	0.035		2.0	0.15	0.702	2/14/12 21:33	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
Field Sample #: PMF-UPS-IA04
Sample ID: 12B0323-08
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 15:11

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1263
 Canister Size: 6 liter
 Flow Controller ID: 3264
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -6.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 21:33	WSD	
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12 21:33	WSD	
Toluene	5.9	0.035		22	0.13	0.702	2/14/12 21:33	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 21:33	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 21:33	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 21:33	WSD	
Trichloroethylene	0.046	0.035		0.25	0.19	0.702	2/14/12 21:33	WSD	
Trichlorofluoromethane (Freon 11)	0.30	0.035		1.7	0.20	0.702	2/14/12 21:33	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.035		0.61	0.27	0.702	2/14/12 21:33	WSD	
1,2,4-Trimethylbenzene	0.41	0.035		2.0	0.17	0.702	2/14/12 21:33	WSD	
1,3,5-Trimethylbenzene	0.11	0.035		0.55	0.17	0.702	2/14/12 21:33	WSD	
2,2,4-Trimethylpentane	0.41	0.094	V-05 J	1.9	0.44	0.702	2/14/12 21:33	WSD	
Vinyl Chloride	0.12	0.035		0.30	0.090	0.702	2/14/12 21:33	WSD	
m&p-Xylene	2.3	0.070		9.9	0.30	0.702	2/14/12 21:33	WSD	
o-Xylene	0.76	0.035		3.3	0.15	0.702	2/14/12 21:33	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/14/12 21:33
4-Bromofluorobenzene (2)	123	70-130	2/14/12 21:33

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-UPS-OA01
 Sample ID: 12B0323-09
 Sample Matrix: Ambient Air
 Sampled: 2/8/2012 15:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1665
 Canister Size: 6 liter
 Flow Controller ID: 3267
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -5.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	0.16	0.035		0.51	0.11	0.702	2/14/12 17:45	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 17:45	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 17:45	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 17:45	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 17:45	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 17:45	WSD
Carbon Tetrachloride	0.068	0.035		0.43	0.22	0.702	2/14/12 17:45	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 17:45	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/14/12 17:45	WSD
Chloromethane	0.44	0.035		0.91	0.072	0.702	2/14/12 17:45	WSD
Cyclohexane	ND	0.035		ND	0.12	0.702	2/14/12 17:45	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 17:45	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 17:45	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 17:45	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 17:45	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 17:45	WSD
Dichlorodifluoromethane (Freon 12)	0.56	0.035		2.8	0.17	0.702	2/14/12 17:45	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 17:45	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 17:45	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 17:45	WSD
Ethanol	2.9	1.4	J	5.4	2.6	0.702	2/14/12 17:45	WSD
Ethylbenzene	0.037	0.035		0.16	0.15	0.702	2/14/12 17:45	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 17:45	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 17:45	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 17:45	WSD
Methylene Chloride	ND	0.35		ND	1.2	0.702	2/14/12 17:45	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	2/14/12 17:45	WSD
Styrene	ND	0.035		ND	0.15	0.702	2/14/12 17:45	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-UPS-OA01
Sample ID: 12B0323-09
Sample Matrix: Ambient Air
Sampled: 2/8/2012 15:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1665
Canister Size: 6 liter
Flow Controller ID: 3267
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -5.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 17:45	WSD	
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12 17:45	WSD	
Toluene	0.34	0.035		1.3	0.13	0.702	2/14/12 17:45	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 17:45	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 17:45	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 17:45	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 17:45	WSD	
Trichlorofluoromethane (Freon 11)	0.25	0.035		1.4	0.20	0.702	2/14/12 17:45	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.035		0.63	0.27	0.702	2/14/12 17:45	WSD	
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 17:45	WSD	
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 17:45	WSD	
2,2,4-Trimethylpentane	0.11	0.094	V-05 J	0.50	0.44	0.702	2/14/12 17:45	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 17:45	WSD	
m&p-Xylene	0.13	0.070		0.57	0.30	0.702	2/14/12 17:45	WSD	
o-Xylene	0.042	0.035		0.18	0.15	0.702	2/14/12 17:45	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	2/14/12 17:45
4-Bromofluorobenzene (2)	122	70-130	2/14/12 17:45

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-MSBA-SS-05
 Sample ID: 12B0323-10
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 16:41

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1820
 Canister Size: 6 liter
 Flow Controller ID: 3246
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time	
	Results	RL	Results		RL	Analyzed		Analyst	
Benzene	ND	0.10			ND	0.32	2	2/13/12 16:59	WSD
Benzyl chloride	ND	0.10			ND	0.52	2	2/13/12 16:59	WSD
Bromodichloromethane	ND	0.10			ND	0.67	2	2/13/12 16:59	WSD
Bromoform	ND	0.10			ND	1.0	2	2/13/12 16:59	WSD
Bromomethane	ND	0.10			ND	0.39	2	2/13/12 16:59	WSD
2-Butanone (MEK)	ND	4.0			ND	12	2	2/13/12 16:59	WSD
tert-Butyl Alcohol (TBA)	ND	0.41			ND	1.2	2	2/13/12 16:59	WSD
Carbon Tetrachloride	ND	0.10			ND	0.63	2	2/13/12 16:59	WSD
Chlorobenzene	ND	0.10			ND	0.46	2	2/13/12 16:59	WSD
Chloroethane	ND	0.10			ND	0.26	2	2/13/12 16:59	WSD
Chloroform	ND	0.10			ND	0.49	2	2/13/12 16:59	WSD
Chloromethane	ND	0.10			ND	0.21	2	2/13/12 16:59	WSD
Cyclohexane	ND	0.10			ND	0.34	2	2/13/12 16:59	WSD
Dibromochloromethane	ND	0.10			ND	0.85	2	2/13/12 16:59	WSD
1,2-Dibromoethane (EDB)	ND	0.10			ND	0.77	2	2/13/12 16:59	WSD
1,2-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 16:59	WSD
1,3-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 16:59	WSD
1,4-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 16:59	WSD
Dichlorodifluoromethane (Freon 12)	75	0.10			370	0.49	2	2/13/12 16:59	WSD
1,1-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD
1,2-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD
1,1-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD
cis-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD
trans-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 16:59	WSD
1,2-Dichloropropane	ND	0.10			ND	0.46	2	2/13/12 16:59	WSD
cis-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 16:59	WSD
trans-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 16:59	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10			ND	0.70	2	2/13/12 16:59	WSD
1,4-Dioxane	ND	0.10			ND	0.36	2	2/13/12 16:59	WSD
Ethanol	91	4.0	J		170	7.5	2	2/13/12 16:59	WSD
Ethylbenzene	ND	0.10			ND	0.43	2	2/13/12 16:59	WSD
Hexachlorobutadiene	ND	0.10			ND	1.1	2	2/13/12 16:59	WSD
Hexane	ND	4.0			ND	14	2	2/13/12 16:59	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10			ND	0.36	2	2/13/12 16:59	WSD
Methylene Chloride	ND	1.0			ND	3.5	2	2/13/12 16:59	WSD
4-Methyl-2-pentanone (MIBK)	0.11	0.10	V-05 J		0.45	0.41	2	2/13/12 16:59	WSD
Styrene	ND	0.10			ND	0.43	2	2/13/12 16:59	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-05
Sample ID: 12B0323-10
Sample Matrix: Sub Slab
Sampled: 2/8/2012 16:41

Sample Description/Location:
Sub Description/Location:
Canister ID: 1820
Canister Size: 6 liter
Flow Controller ID: 3246
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 16:59	WSD	
Tetrachloroethylene	0.39	0.10		2.7	0.68	2	2/13/12 16:59	WSD	
Toluene	ND	0.10		ND	0.38	2	2/13/12 16:59	WSD	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 16:59	WSD	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 16:59	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 16:59	WSD	
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 16:59	WSD	
Trichlorofluoromethane (Freon 11)	1.0	0.10		5.8	0.56	2	2/13/12 16:59	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 16:59	WSD	
1,2,4-Trimethylbenzene	3.3	0.10		16	0.49	2	2/13/12 16:59	WSD	
1,3,5-Trimethylbenzene	0.73	0.10		3.6	0.49	2	2/13/12 16:59	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05 UJ	ND	1.3	2	2/13/12 16:59	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 16:59	WSD	
m&p-Xylene	0.31	0.20		1.3	0.87	2	2/13/12 16:59	WSD	
o-Xylene	0.14	0.10		0.60	0.43	2	2/13/12 16:59	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 16:59
4-Bromofluorobenzene (2)	121	70-130	2/13/12 16:59

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-05
Sample ID: 12B0323-11
Sample Matrix: Indoor air
Sampled: 2/8/2012 16:41

Sample Description/Location:
Sub Description/Location:
Canister ID: 1073
Canister Size: 6 liter
Flow Controller ID: 3350
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	0.18	0.035		0.57	0.11	0.702	2/14/12 22:19	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 22:19	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 22:19	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 22:19	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 22:19	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 22:19	WSD
Carbon Tetrachloride	0.061	0.035	NJ	0.38	0.22	0.702	2/14/12 22:19	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 22:19	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/14/12 22:19	WSD
Chloromethane	0.58	0.035		1.2	0.072	0.702	2/14/12 22:19	WSD
Cyclohexane	0.093	0.035		0.32	0.12	0.702	2/14/12 22:19	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 22:19	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 22:19	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 22:19	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 22:19	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 22:19	WSD
Dichlorodifluoromethane (Freon 12)	0.61	0.035		3.0	0.17	0.702	2/14/12 22:19	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 22:19	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 22:19	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 22:19	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 22:19	WSD
Ethanol	1000	40	J	1900	75	20	2/15/12 16:31	WSD
Ethylbenzene	4.1	0.035		18	0.15	0.702	2/14/12 22:19	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 22:19	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 22:19	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 22:19	WSD
Methylene Chloride	0.57	0.35		2.0	1.2	0.702	2/14/12 22:19	WSD
4-Methyl-2-pentanone (MIBK)	3.5	0.035		14	0.14	0.702	2/14/12 22:19	WSD
Styrene	0.036	0.035		0.15	0.15	0.702	2/14/12 22:19	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-MSBA-1A-05
 Sample ID: 12B0323-11
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 16:41

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1073
 Canister Size: 6 liter
 Flow Controller ID: 3350
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 22:19	WSD	
Tetrachloroethylene	0.055	0.035		0.38	0.24	0.702	2/14/12 22:19	WSD	
Toluene	0.58	0.035		2.2	0.13	0.702	2/14/12 22:19	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 22:19	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 22:19	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 22:19	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 22:19	WSD	
Trichlorofluoromethane (Freon 11)	0.26	0.035		1.5	0.20	0.702	2/14/12 22:19	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.035		0.62	0.27	0.702	2/14/12 22:19	WSD	
1,2,4-Trimethylbenzene	0.098	0.035		0.48	0.17	0.702	2/14/12 22:19	WSD	
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 22:19	WSD	
2,2,4-Trimethylpentane	ND	0.094	V-05 WJ	ND	0.44	0.702	2/14/12 22:19	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 22:19	WSD	
m&p-Xylene	16	0.070		71	0.30	0.702	2/14/12 22:19	WSD	
o-Xylene	5.9	0.035		25	0.15	0.702	2/14/12 22:19	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	109	70-130	2/15/12 16:31
4-Bromofluorobenzene (1)	105	70-130	2/14/12 22:19
4-Bromofluorobenzene (2)	124	70-130	2/14/12 22:19

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-06
Sample ID: 12B0323-12
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1606
Canister Size: 6 liter
Flow Controller ID: 3071
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time	
	Results	RL	Results		RL	Analyzed		Analyst	
Benzene	ND	0.10			ND	0.32	2	2/13/12 12:53	WSD
Benzyl chloride	ND	0.10			ND	0.52	2	2/13/12 12:53	WSD
Bromodichloromethane	ND	0.10			ND	0.67	2	2/13/12 12:53	WSD
Bromoform	ND	0.10			ND	1.0	2	2/13/12 12:53	WSD
Bromomethane	ND	0.10			ND	0.39	2	2/13/12 12:53	WSD
2-Butanone (MEK)	ND	4.0			ND	12	2	2/13/12 12:53	WSD
tert-Butyl Alcohol (TBA)	ND	0.41			ND	1.2	2	2/13/12 12:53	WSD
Carbon Tetrachloride	ND	0.10			ND	0.63	2	2/13/12 12:53	WSD
Chlorobenzene	ND	0.10			ND	0.46	2	2/13/12 12:53	WSD
Chloroethane	ND	0.10			ND	0.26	2	2/13/12 12:53	WSD
Chloroform	ND	0.10			ND	0.49	2	2/13/12 12:53	WSD
Chloromethane	ND	0.10			ND	0.21	2	2/13/12 12:53	WSD
Cyclohexane	ND	0.10			ND	0.34	2	2/13/12 12:53	WSD
Dibromochloromethane	ND	0.10			ND	0.85	2	2/13/12 12:53	WSD
1,2-Dibromoethane (EDB)	ND	0.10			ND	0.77	2	2/13/12 12:53	WSD
1,2-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 12:53	WSD
1,3-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 12:53	WSD
1,4-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 12:53	WSD
Dichlorodifluoromethane (Freon 12)	8.2	0.10			41	0.49	2	2/13/12 12:53	WSD
1,1-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 12:53	WSD
1,2-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 12:53	WSD
1,1-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 12:53	WSD
cis-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 12:53	WSD
trans-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 12:53	WSD
1,2-Dichloropropane	ND	0.10			ND	0.46	2	2/13/12 12:53	WSD
cis-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 12:53	WSD
trans-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 12:53	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10			ND	0.70	2	2/13/12 12:53	WSD
1,4-Dioxane	ND	0.10			ND	0.36	2	2/13/12 12:53	WSD
Ethanol	ND	4.0		UJ	ND	7.5	2	2/13/12 12:53	WSD
Ethylbenzene	ND	0.10			ND	0.43	2	2/13/12 12:53	WSD
Hexachlorobutadiene	ND	0.10			ND	1.1	2	2/13/12 12:53	WSD
Hexane	ND	4.0			ND	14	2	2/13/12 12:53	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10			ND	0.36	2	2/13/12 12:53	WSD
Methylene Chloride	ND	1.0			ND	3.5	2	2/13/12 12:53	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		V-05 UJ	ND	0.41	2	2/13/12 12:53	WSD
Styrene	ND	0.10			ND	0.43	2	2/13/12 12:53	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-06
Sample ID: 12B0323-12
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1606
Canister Size: 6 liter
Flow Controller ID: 3071
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: >20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 12:53	WSD
Tetrachloroethylene	2.1	0.10		14	0.68	2	2/13/12 12:53	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12 12:53	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 12:53	WSD
1,1,1-Trichloroethane	0.16	0.10		0.87	0.55	2	2/13/12 12:53	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 12:53	WSD
Trichloroethylene	0.38	0.10		2.0	0.54	2	2/13/12 12:53	WSD
Trichlorofluoromethane (Freon 11)	1.5	0.10		8.2	0.56	2	2/13/12 12:53	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 12:53	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 12:53	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 12:53	WSD
2,2,4-Trimethylpentane	ND	0.27	V-05 uJ	ND	1.3	2	2/13/12 12:53	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 12:53	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 12:53	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 12:53	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/13/12 12:53
4-Bromofluorobenzene (2)	120	70-130	2/13/12 12:53

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-1A-06
Sample ID: 12B0323-13
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1657
Canister Size: 6 liter
Flow Controller ID: 3102
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	0.21	0.035			0.68	0.11	0.702	2/14/12 23:04	WSD	
Benzyl chloride	ND	0.035			ND	0.18	0.702	2/14/12 23:04	WSD	
Bromodichloromethane	ND	0.035			ND	0.24	0.702	2/14/12 23:04	WSD	
Bromoform	ND	0.035			ND	0.36	0.702	2/14/12 23:04	WSD	
Bromomethane	ND	0.035			ND	0.14	0.702	2/14/12 23:04	WSD	
2-Butanone (MEK)	ND	1.4			ND	4.1	0.702	2/14/12 23:04	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14			ND	0.44	0.702	2/14/12 23:04	WSD	
Carbon Tetrachloride	0.069	0.035			0.44	0.22	0.702	2/14/12 23:04	WSD	
Chlorobenzene	ND	0.035			ND	0.16	0.702	2/14/12 23:04	WSD	
Chloroethane	ND	0.035			ND	0.093	0.702	2/14/12 23:04	WSD	
Chloroform	0.12	0.035			0.57	0.17	0.702	2/14/12 23:04	WSD	
Chloromethane	0.46	0.035			0.95	0.072	0.702	2/14/12 23:04	WSD	
Cyclohexane	ND	0.035			ND	0.12	0.702	2/14/12 23:04	WSD	
Dibromochloromethane	ND	0.035			ND	0.30	0.702	2/14/12 23:04	WSD	
1,2-Dibromoethane (EDB)	ND	0.035			ND	0.27	0.702	2/14/12 23:04	WSD	
1,2-Dichlorobenzene	ND	0.035			ND	0.21	0.702	2/14/12 23:04	WSD	
1,3-Dichlorobenzene	ND	0.035			ND	0.21	0.702	2/14/12 23:04	WSD	
1,4-Dichlorobenzene	ND	0.035			ND	0.21	0.702	2/14/12 23:04	WSD	
Dichlorodifluoromethane (Freon 12)	0.52	0.035			2.6	0.17	0.702	2/14/12 23:04	WSD	
1,1-Dichloroethane	ND	0.035			ND	0.14	0.702	2/14/12 23:04	WSD	
1,2-Dichloroethane	ND	0.035			ND	0.14	0.702	2/14/12 23:04	WSD	
1,1-Dichloroethylene	ND	0.035			ND	0.14	0.702	2/14/12 23:04	WSD	
cis-1,2-Dichloroethylene	ND	0.035			ND	0.14	0.702	2/14/12 23:04	WSD	
trans-1,2-Dichloroethylene	ND	0.035			ND	0.14	0.702	2/14/12 23:04	WSD	
1,2-Dichloropropane	ND	0.035			ND	0.16	0.702	2/14/12 23:04	WSD	
cis-1,3-Dichloropropene	ND	0.035			ND	0.16	0.702	2/14/12 23:04	WSD	
trans-1,3-Dichloropropene	ND	0.035			ND	0.16	0.702	2/14/12 23:04	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035			ND	0.25	0.702	2/14/12 23:04	WSD	
1,4-Dioxane	ND	0.035			ND	0.13	0.702	2/14/12 23:04	WSD	
Ethanol	5.7	1.4	J		11	2.6	0.702	2/14/12 23:04	WSD	
Ethylbenzene	0.087	0.035			0.38	0.15	0.702	2/14/12 23:04	WSD	
Hexachlorobutadiene	ND	0.035			ND	0.37	0.702	2/14/12 23:04	WSD	
Hexane	ND	1.4			ND	4.9	0.702	2/14/12 23:04	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035			ND	0.13	0.702	2/14/12 23:04	WSD	
Methylene Chloride	ND	0.80	0.80	U	2.8	1.2	0.702	2/14/12 23:04	WSD	
4-Methyl-2-pentanone (MIBK)	0.12	0.035			0.50	0.14	0.702	2/14/12 23:04	WSD	
Styrene	ND	0.035			ND	0.15	0.702	2/14/12 23:04	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-MSBA-IA-06
 Sample ID: 12B0323-13
 Sample Matrix: Indoor air
 Sampled: 2/8/2012 17:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1657
 Canister Size: 6 liter
 Flow Controller ID: 3102
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -7.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 23:04	WSD
Tetrachloroethylene	0.085	0.035		0.58	0.24	0.702	2/14/12 23:04	WSD
Toluene	0.76	0.035		2.8	0.13	0.702	2/14/12 23:04	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 23:04	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 23:04	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 23:04	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 23:04	WSD
Trichlorofluoromethane (Freon 11)	0.21	0.035		1.2	0.20	0.702	2/14/12 23:04	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.035		0.64	0.27	0.702	2/14/12 23:04	WSD
1,2,4-Trimethylbenzene	0.38	0.035		1.9	0.17	0.702	2/14/12 23:04	WSD
1,3,5-Trimethylbenzene	0.12	0.035		0.61	0.17	0.702	2/14/12 23:04	WSD
2,2,4-Trimethylpentane	ND	0.094	V-05 UJ	ND	0.44	0.702	2/14/12 23:04	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 23:04	WSD
m&p-Xylene	0.38	0.070		1.6	0.30	0.702	2/14/12 23:04	WSD
o-Xylene	0.17	0.035		0.73	0.15	0.702	2/14/12 23:04	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	2/14/12 23:04
4-Bromofluorobenzene (2)	129	70-130	2/14/12 23:04

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-07
Sample ID: 12B0323-14
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1824
Canister Size: 6 liter
Flow Controller ID: 3236
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -3.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	ND	0.10			ND	0.32	2	2/13/12 13:34	WSD	
Benzyl chloride	ND	0.10			ND	0.52	2	2/13/12 13:34	WSD	
Bromodichloromethane	ND	0.10			ND	0.67	2	2/13/12 13:34	WSD	
Bromoform	ND	0.10			ND	1.0	2	2/13/12 13:34	WSD	
Bromomethane	ND	0.10			ND	0.39	2	2/13/12 13:34	WSD	
2-Butanone (MEK)	ND	4.0			ND	12	2	2/13/12 13:34	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41			ND	1.2	2	2/13/12 13:34	WSD	
Carbon Tetrachloride	ND	0.10			ND	0.63	2	2/13/12 13:34	WSD	
Chlorobenzene	ND	0.10			ND	0.46	2	2/13/12 13:34	WSD	
Chloroethane	ND	0.10			ND	0.26	2	2/13/12 13:34	WSD	
Chloroform	ND	0.10			ND	0.49	2	2/13/12 13:34	WSD	
Chloromethane	ND	0.10			ND	0.21	2	2/13/12 13:34	WSD	
Cyclohexane	ND	0.10			ND	0.34	2	2/13/12 13:34	WSD	
Dibromochloromethane	ND	0.10			ND	0.85	2	2/13/12 13:34	WSD	
1,2-Dibromoethane (EDB)	ND	0.10			ND	0.77	2	2/13/12 13:34	WSD	
1,2-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 13:34	WSD	
1,3-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 13:34	WSD	
1,4-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 13:34	WSD	
Dichlorodifluoromethane (Freon 12)	5.0	0.10			25	0.49	2	2/13/12 13:34	WSD	
1,1-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 13:34	WSD	
1,2-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 13:34	WSD	
1,1-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 13:34	WSD	
cis-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 13:34	WSD	
trans-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 13:34	WSD	
1,2-Dichloropropane	ND	0.10			ND	0.46	2	2/13/12 13:34	WSD	
cis-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 13:34	WSD	
trans-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 13:34	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10			ND	0.70	2	2/13/12 13:34	WSD	
1,4-Dioxane	ND	0.10			ND	0.36	2	2/13/12 13:34	WSD	
Ethanol	8.4	4.0		J	16	7.5	2	2/13/12 13:34	WSD	
Ethylbenzene	ND	0.10			ND	0.43	2	2/13/12 13:34	WSD	
Hexachlorobutadiene	ND	0.10			ND	1.1	2	2/13/12 13:34	WSD	
Hexane	ND	4.0			ND	14	2	2/13/12 13:34	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10			ND	0.36	2	2/13/12 13:34	WSD	
Methylene Chloride	7.3	1.0			25	3.5	2	2/13/12 13:34	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05	WJ	ND	0.41	2	2/13/12 13:34	WSD	
Styrene	ND	0.10			ND	0.43	2	2/13/12 13:34	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-07
Sample ID: 12B0323-14
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1824
Canister Size: 6 liter
Flow Controller ID: 3236
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -3.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 13:34	WSD
Tetrachloroethylene	0.31	0.10		2.1	0.68	2	2/13/12 13:34	WSD
Toluene	ND	0.10		ND	0.38	2	2/13/12 13:34	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 13:34	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 13:34	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 13:34	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 13:34	WSD
Trichlorofluoromethane (Freon 11)	0.24	0.10		1.4	0.56	2	2/13/12 13:34	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 13:34	WSD
1,2,4-Trimethylbenzene	0.49	0.10		2.4	0.49	2	2/13/12 13:34	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 13:34	WSD
2,2,4-Trimethylpentane	ND	0.27	v-05 UJ	ND	1.3	2	2/13/12 13:34	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 13:34	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 13:34	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 13:34	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 13:34
4-Bromofluorobenzene (2)	119	70-130	2/13/12 13:34

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-07
Sample ID: 12B0323-15
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1125
Canister Size: 6 liter
Flow Controller ID: 3079
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	0.23	0.035		0.74	0.11	0.702	2/14/12 23:50	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/14/12 23:50	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/14/12 23:50	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/14/12 23:50	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/14/12 23:50	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/14/12 23:50	WSD
Carbon Tetrachloride	0.069	0.035		0.43	0.22	0.702	2/14/12 23:50	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/14/12 23:50	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/14/12 23:50	WSD
Chloromethane	0.60	0.035		1.2	0.072	0.702	2/14/12 23:50	WSD
Cyclohexane	ND	0.035		ND	0.12	0.702	2/14/12 23:50	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/14/12 23:50	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/14/12 23:50	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:50	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:50	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/14/12 23:50	WSD
Dichlorodifluoromethane (Freon 12)	0.57	0.035		2.8	0.17	0.702	2/14/12 23:50	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/14/12 23:50	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/14/12 23:50	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/14/12 23:50	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/14/12 23:50	WSD
Ethanol	5.1	1.4	J	9.6	2.6	0.702	2/14/12 23:50	WSD
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/14/12 23:50	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/14/12 23:50	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/14/12 23:50	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/14/12 23:50	WSD
Methylene Chloride	0.38	0.35		1.3	1.2	0.702	2/14/12 23:50	WSD
4-Methyl-2-pentanone (MIBK)	0.10	0.035		0.43	0.14	0.702	2/14/12 23:50	WSD
Styrene	ND	0.035		ND	0.15	0.702	2/14/12 23:50	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-07
Sample ID: 12B0323-15
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:17

Sample Description/Location:
Sub Description/Location:
Canister ID: 1125
Canister Size: 6 liter
Flow Controller ID: 3079
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 23:50	WSD	
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/14/12 23:50	WSD	
Toluene	0.34	0.035		1.3	0.13	0.702	2/14/12 23:50	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 23:50	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 23:50	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 23:50	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 23:50	WSD	
Trichlorofluoromethane (Freon 11)	0.26	0.035		1.4	0.20	0.702	2/14/12 23:50	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.035		0.64	0.27	0.702	2/14/12 23:50	WSD	
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 23:50	WSD	
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 23:50	WSD	
2,2,4-Trimethylpentane	ND	0.094	V-05	ND	0.44	0.702	2/14/12 23:50	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 23:50	WSD	
m&p-Xylene	0.11	0.070		0.48	0.30	0.702	2/14/12 23:50	WSD	
o-Xylene	0.041	0.035		0.18	0.15	0.702	2/14/12 23:50	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	109	70-130	2/14/12 23:50
4-Bromofluorobenzene (2)	129	70-130	2/14/12 23:50

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-08
Sample ID: 12B0323-16
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1198
Canister Size: 6 liter
Flow Controller ID: 3158
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	ND	0.10		ND	0.32		2	2/13/12 14:15	WSD	
Benzyl chloride	ND	0.10		ND	0.52		2	2/13/12 14:15	WSD	
Bromodichloromethane	ND	0.10		ND	0.67		2	2/13/12 14:15	WSD	
Bromoform	ND	0.10		ND	1.0		2	2/13/12 14:15	WSD	
Bromomethane	ND	0.10		ND	0.39		2	2/13/12 14:15	WSD	
2-Butanone (MEK)	5.0	4.0		15	12		2	2/13/12 14:15	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2		2	2/13/12 14:15	WSD	
Carbon Tetrachloride	ND	0.10		ND	0.63		2	2/13/12 14:15	WSD	
Chlorobenzene	ND	0.10		ND	0.46		2	2/13/12 14:15	WSD	
Chloroethane	ND	0.10		ND	0.26		2	2/13/12 14:15	WSD	
Chloroform	0.15	0.10		0.71	0.49		2	2/13/12 14:15	WSD	
Chloromethane	0.19	0.10		0.38	0.21		2	2/13/12 14:15	WSD	
Cyclohexane	0.13	0.10		0.45	0.34		2	2/13/12 14:15	WSD	
Dibromochloromethane	ND	0.10		ND	0.85		2	2/13/12 14:15	WSD	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77		2	2/13/12 14:15	WSD	
1,2-Dichlorobenzene	ND	0.10		ND	0.60		2	2/13/12 14:15	WSD	
1,3-Dichlorobenzene	ND	0.10		ND	0.60		2	2/13/12 14:15	WSD	
1,4-Dichlorobenzene	ND	0.10		ND	0.60		2	2/13/12 14:15	WSD	
Dichlorodifluoromethane (Freon 12)	20	0.10		99	0.49		2	2/13/12 14:15	WSD	
1,1-Dichloroethane	0.14	0.10		0.57	0.40		2	2/13/12 14:15	WSD	
1,2-Dichloroethane	ND	0.10		ND	0.40		2	2/13/12 14:15	WSD	
1,1-Dichloroethylene	ND	0.10		ND	0.40		2	2/13/12 14:15	WSD	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40		2	2/13/12 14:15	WSD	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40		2	2/13/12 14:15	WSD	
1,2-Dichloropropane	ND	0.10		ND	0.46		2	2/13/12 14:15	WSD	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45		2	2/13/12 14:15	WSD	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45		2	2/13/12 14:15	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70		2	2/13/12 14:15	WSD	
1,4-Dioxane	ND	0.10		ND	0.36		2	2/13/12 14:15	WSD	
Ethanol	ND	4.0	us	ND	7.5		2	2/13/12 14:15	WSD	
Ethylbenzene	ND	0.10		ND	0.43		2	2/13/12 14:15	WSD	
Hexachlorobutadiene	ND	0.10		ND	1.1		2	2/13/12 14:15	WSD	
Hexane	ND	4.0		ND	14		2	2/13/12 14:15	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36		2	2/13/12 14:15	WSD	
Methylene Chloride	ND	1.0		ND	3.5		2	2/13/12 14:15	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.10	v-05 us	ND	0.41		2	2/13/12 14:15	WSD	
Styrene	ND	0.10		ND	0.43		2	2/13/12 14:15	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-08
Sample ID: 12B0323-16
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1198
Canister Size: 6 liter
Flow Controller ID: 3158
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 14:15	WSD	
Tetrachloroethylene	6.1	0.10		41	0.68	2	2/13/12 14:15	WSD	
Toluene	ND	0.10		ND	0.38	2	2/13/12 14:15	WSD	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 14:15	WSD	
1,1,1-Trichloroethane	0.69	0.10		3.8	0.55	2	2/13/12 14:15	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 14:15	WSD	
Trichloroethylene	2.1	0.10		12	0.54	2	2/13/12 14:15	WSD	
Trichlorofluoromethane (Freon 11)	0.51	0.10		2.9	0.56	2	2/13/12 14:15	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.11	0.10		0.81	0.77	2	2/13/12 14:15	WSD	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 14:15	WSD	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 14:15	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05 UJ	ND	1.3	2	2/13/12 14:15	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 14:15	WSD	
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 14:15	WSD	
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 14:15	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/13/12 14:15
4-Bromofluorobenzene (2)	120	70-130	2/13/12 14:15

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-08
Sample ID: 12B0323-17
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1619
Canister Size: 6 liter
Flow Controller ID: 3326
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.23	0.035		0.72	0.11	0.702	2/15/12 0:36	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12 0:36	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12 0:36	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12 0:36	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12 0:36	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12 0:36	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12 0:36	WSD	
Carbon Tetrachloride	0.073	0.035		0.46	0.22	0.702	2/15/12 0:36	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12 0:36	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12 0:36	WSD	
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12 0:36	WSD	
Chloromethane	0.73	0.035		1.5	0.072	0.702	2/15/12 0:36	WSD	
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12 0:36	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12 0:36	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12 0:36	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12 0:36	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12 0:36	WSD	
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12 0:36	WSD	
Dichlorodifluoromethane (Freon 12)	0.56	0.035		2.8	0.17	0.702	2/15/12 0:36	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12 0:36	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12 0:36	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 0:36	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 0:36	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 0:36	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12 0:36	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12 0:36	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12 0:36	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12 0:36	WSD	
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/15/12 0:36	WSD	
Ethanol	5.0	1.4	J	9.4	2.6	0.702	2/15/12 0:36	WSD	
Ethylbenzene	0.047	0.035		0.20	0.15	0.702	2/15/12 0:36	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12 0:36	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/15/12 0:36	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12 0:36	WSD	
Methylene Chloride	0.41	0.35		1.4	1.2	0.702	2/15/12 0:36	WSD	
4-Methyl-2-pentanone (MIBK)	0.10	0.035	NJ	0.42	0.14	0.702	2/15/12 0:36	WSD	
Styrene	ND	0.035		ND	0.15	0.702	2/15/12 0:36	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-1A-08
Sample ID: 12B0323-17
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1619
Canister Size: 6 liter
Flow Controller ID: 3326
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/15/12	0:36	WSD
Tetrachloroethylene	0.038	0.035		0.26	0.24	0.702	2/15/12	0:36	WSD
Toluene	0.39	0.035		1.5	0.13	0.702	2/15/12	0:36	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12	0:36	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	0:36	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	0:36	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12	0:36	WSD
Trichlorofluoromethane (Freon 11)	0.26	0.035		1.4	0.20	0.702	2/15/12	0:36	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.088	0.035		0.67	0.27	0.702	2/15/12	0:36	WSD
1,2,4-Trimethylbenzene	0.046	0.035		0.22	0.17	0.702	2/15/12	0:36	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	0:36	WSD
2,2,4-Trimethylpentane	ND	0.094	V-05 UJ	ND	0.44	0.702	2/15/12	0:36	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/15/12	0:36	WSD
m&p-Xylene	0.18	0.070		0.77	0.30	0.702	2/15/12	0:36	WSD
o-Xylene	0.055	0.035		0.24	0.15	0.702	2/15/12	0:36	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	106	70-130	2/15/12 0:36
4-Bromofluorobenzene (2)	127	70-130	2/15/12 0:36

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-OA-02
Sample ID: 12B0323-18
Sample Matrix: Ambient Air
Sampled: 2/8/2012 17:44

Sample Description/Location:
Sub Description/Location:
Canister ID: 1613
Canister Size: 6 liter
Flow Controller ID: 3069
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -4.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Date/Time		
	Results	RL	Results		RL	Dilution	Analyzed	Analyst	
Benzene	0.14	0.035			0.44	0.11	0.702	2/14/12 18:30	WSD
Benzyl chloride	ND	0.035			ND	0.18	0.702	2/14/12 18:30	WSD
Bromodichloromethane	ND	0.035			ND	0.24	0.702	2/14/12 18:30	WSD
Bromoform	ND	0.035			ND	0.36	0.702	2/14/12 18:30	WSD
Bromomethane	ND	0.035			ND	0.14	0.702	2/14/12 18:30	WSD
2-Butanone (MEK)	ND	1.4			ND	4.1	0.702	2/14/12 18:30	WSD
tert-Butyl Alcohol (TBA)	ND	0.14			ND	0.44	0.702	2/14/12 18:30	WSD
Carbon Tetrachloride	0.071	0.035			0.45	0.22	0.702	2/14/12 18:30	WSD
Chlorobenzene	ND	0.035			ND	0.16	0.702	2/14/12 18:30	WSD
Chloroethane	ND	0.035			ND	0.093	0.702	2/14/12 18:30	WSD
Chloroform	ND	0.035			ND	0.17	0.702	2/14/12 18:30	WSD
Chloromethane	0.54	0.035			1.1	0.072	0.702	2/14/12 18:30	WSD
Cyclohexane	ND	0.035			ND	0.12	0.702	2/14/12 18:30	WSD
Dibromochloromethane	ND	0.035			ND	0.30	0.702	2/14/12 18:30	WSD
1,2-Dibromoethane (EDB)	ND	0.035			ND	0.27	0.702	2/14/12 18:30	WSD
1,2-Dichlorobenzene	ND	0.035			ND	0.21	0.702	2/14/12 18:30	WSD
1,3-Dichlorobenzene	ND	0.035			ND	0.21	0.702	2/14/12 18:30	WSD
1,4-Dichlorobenzene	ND	0.035			ND	0.21	0.702	2/14/12 18:30	WSD
Dichlorodifluoromethane (Freon 12)	0.59	0.035			2.9	0.17	0.702	2/14/12 18:30	WSD
1,1-Dichloroethane	ND	0.035			ND	0.14	0.702	2/14/12 18:30	WSD
1,2-Dichloroethane	ND	0.035			ND	0.14	0.702	2/14/12 18:30	WSD
1,1-Dichloroethylene	ND	0.035			ND	0.14	0.702	2/14/12 18:30	WSD
cis-1,2-Dichloroethylene	ND	0.035			ND	0.14	0.702	2/14/12 18:30	WSD
trans-1,2-Dichloroethylene	ND	0.035			ND	0.14	0.702	2/14/12 18:30	WSD
1,2-Dichloropropane	ND	0.035			ND	0.16	0.702	2/14/12 18:30	WSD
cis-1,3-Dichloropropene	ND	0.035			ND	0.16	0.702	2/14/12 18:30	WSD
trans-1,3-Dichloropropene	ND	0.035			ND	0.16	0.702	2/14/12 18:30	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035			ND	0.25	0.702	2/14/12 18:30	WSD
1,4-Dioxane	ND	0.035			ND	0.13	0.702	2/14/12 18:30	WSD
Ethanol	2.4	1.4	J		4.6	2.6	0.702	2/14/12 18:30	WSD
Ethylbenzene	ND	0.035			ND	0.15	0.702	2/14/12 18:30	WSD
Hexachlorobutadiene	ND	0.035			ND	0.37	0.702	2/14/12 18:30	WSD
Hexane	ND	1.4			ND	4.9	0.702	2/14/12 18:30	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035			ND	0.13	0.702	2/14/12 18:30	WSD
Methylene Chloride	0.47	0.35			1.6	1.2	0.702	2/14/12 18:30	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.035			ND	0.14	0.702	2/14/12 18:30	WSD
Styrene	ND	0.035			ND	0.15	0.702	2/14/12 18:30	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-OA-02
Sample ID: 12B0323-18
Sample Matrix: Ambient Air
Sampled: 2/8/2012 17:44

Sample Description/Location:
Sub Description/Location:
Canister ID: 1613
Canister Size: 6 liter
Flow Controller ID: 3069
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -4.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/14/12 18:30	WSD	
Tetrachloroethylene	0.044	0.035		0.30	0.24	0.702	2/14/12 18:30	WSD	
Toluene	0.20	0.035		0.74	0.13	0.702	2/14/12 18:30	WSD	
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/14/12 18:30	WSD	
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 18:30	WSD	
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/14/12 18:30	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/14/12 18:30	WSD	
Trichlorofluoromethane (Freon 11)	0.27	0.035		1.5	0.20	0.702	2/14/12 18:30	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.035		0.63	0.27	0.702	2/14/12 18:30	WSD	
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 18:30	WSD	
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/14/12 18:30	WSD	
2,2,4-Trimethylpentane	ND	0.094	V-05 UJ	ND	0.44	0.702	2/14/12 18:30	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/14/12 18:30	WSD	
m&p-Xylene	ND	0.070		ND	0.30	0.702	2/14/12 18:30	WSD	
o-Xylene	ND	0.035		ND	0.15	0.702	2/14/12 18:30	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/14/12 18:30
4-Bromofluorobenzene (2)	122	70-130	2/14/12 18:30

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-SS-09
Sample ID: 12B0323-19
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 1614
Canister Size: 6 liter
Flow Controller ID: 3243
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Flag	Results	RL		Analyzed		
Benzene	ND	0.10		ND	0.32	2	2/13/12 14:56	WSD	
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 14:56	WSD	
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 14:56	WSD	
Bromoform	ND	0.10		ND	1.0	2	2/13/12 14:56	WSD	
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 14:56	WSD	
2-Butanone (MEK)	ND	4.0		ND	12	2	2/13/12 14:56	WSD	
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 14:56	WSD	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 14:56	WSD	
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 14:56	WSD	
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 14:56	WSD	
Chloroform	ND	0.10		ND	0.49	2	2/13/12 14:56	WSD	
Chloromethane	ND	0.10		ND	0.21	2	2/13/12 14:56	WSD	
Cyclohexane	0.14	0.10		0.49	0.34	2	2/13/12 14:56	WSD	
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 14:56	WSD	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 14:56	WSD	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 14:56	WSD	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 14:56	WSD	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 14:56	WSD	
Dichlorodifluoromethane (Freon 12)	0.59	0.10		2.9	0.49	2	2/13/12 14:56	WSD	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 14:56	WSD	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 14:56	WSD	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 14:56	WSD	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 14:56	WSD	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 14:56	WSD	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 14:56	WSD	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 14:56	WSD	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 14:56	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 14:56	WSD	
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 14:56	WSD	
Ethanol	ND	4.0	uJ	ND	7.5	2	2/13/12 14:56	WSD	
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12 14:56	WSD	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 14:56	WSD	
Hexane	ND	4.0		ND	14	2	2/13/12 14:56	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 14:56	WSD	
Methylene Chloride	1.9	1.0		6.8	3.5	2	2/13/12 14:56	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05 uJ	ND	0.41	2	2/13/12 14:56	WSD	
Styrene	ND	0.10		ND	0.43	2	2/13/12 14:56	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-CONC-SS-09
 Sample ID: 12B0323-19
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 15:19

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1614
 Canister Size: 6 liter
 Flow Controller ID: 3243
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -9.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 14:56	WSD	
Tetrachloroethylene	1.2	0.10		8.0	0.68	2	2/13/12 14:56	WSD	
Toluene	0.10	0.10		0.39	0.38	2	2/13/12 14:56	WSD	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 14:56	WSD	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 14:56	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 14:56	WSD	
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 14:56	WSD	
Trichlorofluoromethane (Freon 11)	11	0.10		61	0.56	2	2/13/12 14:56	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 14:56	WSD	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 14:56	WSD	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 14:56	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05 <i>US</i>	ND	1.3	2	2/13/12 14:56	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 14:56	WSD	
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 14:56	WSD	
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 14:56	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/13/12 14:56
4-Bromofluorobenzene (2)	119	70-130	2/13/12 14:56

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-09
Sample ID: 12B0323-20
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 1849
Canister Size: 6 liter
Flow Controller ID: 3244
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Flag	Results	RL		Analyzed		
Benzene	0.29	0.035		0.93	0.11	0.702	2/15/12 1:22	WSD	
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12 1:22	WSD	
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12 1:22	WSD	
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12 1:22	WSD	
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12 1:22	WSD	
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12 1:22	WSD	
Carbon Tetrachloride	0.069	0.035		0.43	0.22	0.702	2/15/12 1:22	WSD	
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12 1:22	WSD	
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12 1:22	WSD	
Chloromethane	0.56	0.035		1.2	0.072	0.702	2/15/12 1:22	WSD	
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12 1:22	WSD	
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12 1:22	WSD	
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12 1:22	WSD	
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12 1:22	WSD	
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12 1:22	WSD	
1,4-Dichlorobenzene	0.054	0.035		0.32	0.21	0.702	2/15/12 1:22	WSD	
Dichlorodifluoromethane (Freon 12)	0.57	0.035		2.8	0.17	0.702	2/15/12 1:22	WSD	
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12 1:22	WSD	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12 1:22	WSD	
1,4-Dioxane	ND	0.035	J	ND	0.13	0.702	2/15/12 1:22	WSD	
Ethanol	58	1.4	J	110	2.6	0.702	2/15/12 1:22	WSD	
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/15/12 1:22	WSD	
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12 1:22	WSD	
Hexane	ND	1.4		ND	4.9	0.702	2/15/12 1:22	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12 1:22	WSD	
Methylene Chloride	1.4	0.35		5.0	1.2	0.702	2/15/12 1:22	WSD	
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	2/15/12 1:22	WSD	
Styrene	ND	0.035		ND	0.15	0.702	2/15/12 1:22	WSD	

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-09
Sample ID: 12B0323-20
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 1849
Canister Size: 6 liter
Flow Controller ID: 3244
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/15/12	1:22	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/15/12	1:22	WSD
Toluene	0.20	0.035		0.75	0.13	0.702	2/15/12	1:22	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12	1:22	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	1:22	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	1:22	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12	1:22	WSD
Trichlorofluoromethane (Freon 11)	9.5	0.035		54	0.20	0.702	2/15/12	1:22	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.035		0.64	0.27	0.702	2/15/12	1:22	WSD
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	1:22	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	1:22	WSD
2,2,4-Trimethylpentane	ND	0.094	V-05 U5	ND	0.44	0.702	2/15/12	1:22	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/15/12	1:22	WSD
m&p-Xylene	ND	0.070		ND	0.30	0.702	2/15/12	1:22	WSD
o-Xylene	ND	0.035		ND	0.15	0.702	2/15/12	1:22	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/15/12 1:22
4-Bromofluorobenzene (2)	126	70-130	2/15/12 1:22

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
 Date Received: 2/9/2012
 Field Sample #: PMF-CONC-SS-10
 Sample ID: 12B0323-21
 Sample Matrix: Sub Slab
 Sampled: 2/8/2012 15:27

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1115
 Canister Size: 6 liter
 Flow Controller ID: 3087
 Sample Type: 8 hr

Work Order: 12B0323
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): --
 Receipt Vacuum(in Hg): -9.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time	
	Results	RL	Results		RL	Analyzed		Analyst	
Benzene	0.48	0.10			1.5	0.32	2	2/13/12 15:37	WSD
Benzyl chloride	ND	0.10			ND	0.52	2	2/13/12 15:37	WSD
Bromodichloromethane	ND	0.10			ND	0.67	2	2/13/12 15:37	WSD
Bromoform	ND	0.10			ND	1.0	2	2/13/12 15:37	WSD
Bromomethane	ND	0.10			ND	0.39	2	2/13/12 15:37	WSD
2-Butanone (MEK)	ND	4.0			ND	12	2	2/13/12 15:37	WSD
tert-Butyl Alcohol (TBA)	ND	0.41			ND	1.2	2	2/13/12 15:37	WSD
Carbon Tetrachloride	ND	0.10			ND	0.63	2	2/13/12 15:37	WSD
Chlorobenzene	ND	0.10			ND	0.46	2	2/13/12 15:37	WSD
Chloroethane	ND	0.10			ND	0.26	2	2/13/12 15:37	WSD
Chloroform	0.25	0.10			1.2	0.49	2	2/13/12 15:37	WSD
Chloromethane	ND	0.10			ND	0.21	2	2/13/12 15:37	WSD
Cyclohexane	ND	0.10			ND	0.34	2	2/13/12 15:37	WSD
Dibromochloromethane	ND	0.10			ND	0.85	2	2/13/12 15:37	WSD
1,2-Dibromoethane (EDB)	ND	0.10			ND	0.77	2	2/13/12 15:37	WSD
1,2-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 15:37	WSD
1,3-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 15:37	WSD
1,4-Dichlorobenzene	ND	0.10			ND	0.60	2	2/13/12 15:37	WSD
Dichlorodifluoromethane (Freon 12)	0.84	0.10			4.1	0.49	2	2/13/12 15:37	WSD
1,1-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 15:37	WSD
1,2-Dichloroethane	ND	0.10			ND	0.40	2	2/13/12 15:37	WSD
1,1-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 15:37	WSD
cis-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 15:37	WSD
trans-1,2-Dichloroethylene	ND	0.10			ND	0.40	2	2/13/12 15:37	WSD
1,2-Dichloropropane	ND	0.10			ND	0.46	2	2/13/12 15:37	WSD
cis-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 15:37	WSD
trans-1,3-Dichloropropene	ND	0.10			ND	0.45	2	2/13/12 15:37	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10			ND	0.70	2	2/13/12 15:37	WSD
1,4-Dioxane	ND	0.10			ND	0.36	2	2/13/12 15:37	WSD
Ethanol	9.7	4.0		J	18	7.5	2	2/13/12 15:37	WSD
Ethylbenzene	ND	0.10			ND	0.43	2	2/13/12 15:37	WSD
Hexachlorobutadiene	ND	0.10			ND	1.1	2	2/13/12 15:37	WSD
Hexane	ND	4.0			ND	14	2	2/13/12 15:37	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10			ND	0.36	2	2/13/12 15:37	WSD
Methylene Chloride	ND	1.0			ND	3.5	2	2/13/12 15:37	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		V-05 WJ	ND	0.41	2	2/13/12 15:37	WSD
Styrene	ND	0.10			ND	0.43	2	2/13/12 15:37	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-SS-10
Sample ID: 12B0323-21
Sample Matrix: Sub Slab
Sampled: 2/8/2012 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1115
Canister Size: 6 liter
Flow Controller ID: 3087
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 15:37	WSD	
Tetrachloroethylene	0.99	0.10		6.7	0.68	2	2/13/12 15:37	WSD	
Toluene	0.29	0.10		1.1	0.38	2	2/13/12 15:37	WSD	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 15:37	WSD	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 15:37	WSD	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 15:37	WSD	
Trichloroethylene	ND	0.10		ND	0.54	2	2/13/12 15:37	WSD	
Trichlorofluoromethane (Freon 11)	19	0.10		110	0.56	2	2/13/12 15:37	WSD	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/13/12 15:37	WSD	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 15:37	WSD	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 15:37	WSD	
2,2,4-Trimethylpentane	ND	0.27	V-05 45	ND	1.3	2	2/13/12 15:37	WSD	
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 15:37	WSD	
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 15:37	WSD	
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 15:37	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/13/12 15:37
4-Bromofluorobenzene (2)	121	70-130	2/13/12 15:37

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-10
Sample ID: 12B0323-22
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1855
Canister Size: 6 liter
Flow Controller ID: 3289
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.19	0.035		0.62	0.11	0.702	2/15/12	2:53	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12	2:53	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12	2:53	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12	2:53	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12	2:53	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12	2:53	WSD
Carbon Tetrachloride	0.071	0.035		0.45	0.22	0.702	2/15/12	2:53	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12	2:53	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12	2:53	WSD
Chloromethane	0.45	0.035		0.93	0.072	0.702	2/15/12	2:53	WSD
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12	2:53	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12	2:53	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12	2:53	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:53	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:53	WSD
1,4-Dichlorobenzene	0.046	0.035		0.28	0.21	0.702	2/15/12	2:53	WSD
Dichlorodifluoromethane (Freon 12)	0.54	0.035		2.7	0.17	0.702	2/15/12	2:53	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:53	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12	2:53	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/15/12	2:53	WSD
Ethanol	44	1.4	J	84	2.6	0.702	2/15/12	2:53	WSD
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/15/12	2:53	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12	2:53	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/15/12	2:53	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12	2:53	WSD
Methylene Chloride	0.39	0.35		1.4	1.2	0.702	2/15/12	2:53	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	2/15/12	2:53	WSD
Styrene	ND	0.035		ND	0.15	0.702	2/15/12	2:53	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-CONC-IA-10
Sample ID: 12B0323-22
Sample Matrix: Indoor air
Sampled: 2/8/2012 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1855
Canister Size: 6 liter
Flow Controller ID: 3289
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -9.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/15/12	2:53	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/15/12	2:53	WSD
Toluene	0.15	0.035		0.57	0.13	0.702	2/15/12	2:53	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12	2:53	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	2:53	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12	2:53	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12	2:53	WSD
Trichlorofluoromethane (Freon 11)	9.8	0.035		55	0.20	0.702	2/15/12	2:53	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.035		0.62	0.27	0.702	2/15/12	2:53	WSD
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	2:53	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12	2:53	WSD
2,2,4-Trimethylpentane	ND	0.094	V-05	ND	0.44	0.702	2/15/12	2:53	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/15/12	2:53	WSD
m&p-Xylene	ND	0.070		ND	0.30	0.702	2/15/12	2:53	WSD
o-Xylene	ND	0.035		ND	0.15	0.702	2/15/12	2:53	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/15/12 2:53
4-Bromofluorobenzene (2)	123	70-130	2/15/12 2:53

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-11
Sample ID: 12B0323-23
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1389
Canister Size: 6 liter
Flow Controller ID: 3275
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Results		RL	Analyzed				
Benzene	ND	0.10		ND	0.32	2	2/13/12 16:18	WSD		
Benzyl chloride	ND	0.10		ND	0.52	2	2/13/12 16:18	WSD		
Bromodichloromethane	ND	0.10		ND	0.67	2	2/13/12 16:18	WSD		
Bromoform	ND	0.10		ND	1.0	2	2/13/12 16:18	WSD		
Bromomethane	ND	0.10		ND	0.39	2	2/13/12 16:18	WSD		
2-Butanone (MEK)	4.7	4.0		14	12	2	2/13/12 16:18	WSD		
tert-Butyl Alcohol (TBA)	ND	0.41		ND	1.2	2	2/13/12 16:18	WSD		
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/13/12 16:18	WSD		
Chlorobenzene	ND	0.10		ND	0.46	2	2/13/12 16:18	WSD		
Chloroethane	ND	0.10		ND	0.26	2	2/13/12 16:18	WSD		
Chloroform	0.14	0.10		0.69	0.49	2	2/13/12 16:18	WSD		
Chloromethane	ND	0.10		ND	0.21	2	2/13/12 16:18	WSD		
Cyclohexane	ND	0.10		ND	0.34	2	2/13/12 16:18	WSD		
Dibromochloromethane	ND	0.10		ND	0.85	2	2/13/12 16:18	WSD		
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/13/12 16:18	WSD		
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 16:18	WSD		
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 16:18	WSD		
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	2/13/12 16:18	WSD		
Dichlorodifluoromethane (Freon 12)	20	0.10		99	0.49	2	2/13/12 16:18	WSD		
1,1-Dichloroethane	0.13	0.10		0.53	0.40	2	2/13/12 16:18	WSD		
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/13/12 16:18	WSD		
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 16:18	WSD		
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 16:18	WSD		
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/13/12 16:18	WSD		
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/13/12 16:18	WSD		
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 16:18	WSD		
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/13/12 16:18	WSD		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/13/12 16:18	WSD		
1,4-Dioxane	ND	0.10		ND	0.36	2	2/13/12 16:18	WSD		
Ethanol	ND	4.0	UJ	ND	7.5	2	2/13/12 16:18	WSD		
Ethylbenzene	ND	0.10		ND	0.43	2	2/13/12 16:18	WSD		
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/13/12 16:18	WSD		
Hexane	ND	4.0		ND	14	2	2/13/12 16:18	WSD		
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/13/12 16:18	WSD		
Methylene Chloride	1.2	1.0		4.3	3.5	2	2/13/12 16:18	WSD		
4-Methyl-2-pentanone (MIBK)	ND	0.10	V-05 UJ	ND	0.41	2	2/13/12 16:18	WSD		
Styrene	ND	0.10		ND	0.43	2	2/13/12 16:18	WSD		

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-SS-11
Sample ID: 12B0323-23
Sample Matrix: Sub Slab
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1389
Canister Size: 6 liter
Flow Controller ID: 3275
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/13/12 16:18	WSD
Tetrachloroethylene	5.6	0.10		38	0.68	2	2/13/12 16:18	WSD
Toluene	0.92	0.10		3.5	0.38	2	2/13/12 16:18	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	2/13/12 16:18	WSD
1,1,1-Trichloroethane	0.68	0.10		3.7	0.55	2	2/13/12 16:18	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/13/12 16:18	WSD
Trichloroethylene	2.0	0.10		11	0.54	2	2/13/12 16:18	WSD
Trichlorofluoromethane (Freon 11)	0.49	0.10		2.7	0.56	2	2/13/12 16:18	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.12	0.10		0.92	0.77	2	2/13/12 16:18	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 16:18	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/13/12 16:18	WSD
2,2,4-Trimethylpentane	ND	0.27	V-05 45	ND	1.3	2	2/13/12 16:18	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/13/12 16:18	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	2/13/12 16:18	WSD
o-Xylene	ND	0.10		ND	0.43	2	2/13/12 16:18	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/13/12 16:18
4-Bromofluorobenzene (2)	120	70-130	2/13/12 16:18

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-1A-11
Sample ID: 12B0323-24
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1663
Canister Size: 6 liter
Flow Controller ID: 3013
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.19	0.035		0.59	0.11	0.702	2/15/12	2:07	WSD
Benzyl chloride	ND	0.035		ND	0.18	0.702	2/15/12	2:07	WSD
Bromodichloromethane	ND	0.035		ND	0.24	0.702	2/15/12	2:07	WSD
Bromoform	ND	0.035		ND	0.36	0.702	2/15/12	2:07	WSD
Bromomethane	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	2/15/12	2:07	WSD
tert-Butyl Alcohol (TBA)	ND	0.14		ND	0.44	0.702	2/15/12	2:07	WSD
Carbon Tetrachloride	0.065	0.035		0.41	0.22	0.702	2/15/12	2:07	WSD
Chlorobenzene	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
Chloroethane	ND	0.035		ND	0.093	0.702	2/15/12	2:07	WSD
Chloroform	ND	0.035		ND	0.17	0.702	2/15/12	2:07	WSD
Chloromethane	0.49	0.035		1.0	0.072	0.702	2/15/12	2:07	WSD
Cyclohexane	ND	0.035		ND	0.12	0.702	2/15/12	2:07	WSD
Dibromochloromethane	ND	0.035		ND	0.30	0.702	2/15/12	2:07	WSD
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	2/15/12	2:07	WSD
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:07	WSD
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:07	WSD
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	2/15/12	2:07	WSD
Dichlorodifluoromethane (Freon 12)	0.54	0.035		2.7	0.17	0.702	2/15/12	2:07	WSD
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/15/12	2:07	WSD
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	2/15/12	2:07	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	2/15/12	2:07	WSD
1,4-Dioxane	ND	0.035		ND	0.13	0.702	2/15/12	2:07	WSD
Ethanol	4.2	1.4		7.9	2.6	0.702	2/15/12	2:07	WSD
Ethylbenzene	ND	0.035		ND	0.15	0.702	2/15/12	2:07	WSD
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	2/15/12	2:07	WSD
Hexane	ND	1.4		ND	4.9	0.702	2/15/12	2:07	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	2/15/12	2:07	WSD
Methylene Chloride	0.42	0.35		1.5	1.2	0.702	2/15/12	2:07	WSD
4-Methyl-2-pentanone (MIBK)	0.072	0.035		0.30	0.14	0.702	2/15/12	2:07	WSD
Styrene	ND	0.035		ND	0.15	0.702	2/15/12	2:07	WSD

ANALYTICAL RESULTS

Project Location: Purex-Mitchel Field- NY
Date Received: 2/9/2012
Field Sample #: PMF-MSBA-IA-11
Sample ID: 12B0323-24
Sample Matrix: Indoor air
Sampled: 2/8/2012 17:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1663
Canister Size: 6 liter
Flow Controller ID: 3013
Sample Type: 8 hr

Work Order: 12B0323
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): --
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	2/15/12 2:07	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/15/12 2:07	WSD
Toluene	0.23	0.035		0.85	0.13	0.702	2/15/12 2:07	WSD
1,2,4-Trichlorobenzene	ND	0.070		ND	0.52	0.702	2/15/12 2:07	WSD
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12 2:07	WSD
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/15/12 2:07	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/15/12 2:07	WSD
Trichlorofluoromethane (Freon 11)	0.21	0.035		1.2	0.20	0.702	2/15/12 2:07	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.035		0.63	0.27	0.702	2/15/12 2:07	WSD
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12 2:07	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	2/15/12 2:07	WSD
2,2,4-Trimethylpentane	ND	0.094	V-05 UJ	ND	0.44	0.702	2/15/12 2:07	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/15/12 2:07	WSD
m&p-Xylene	ND	0.070		ND	0.30	0.702	2/15/12 2:07	WSD
o-Xylene	ND	0.035		ND	0.15	0.702	2/15/12 2:07	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	2/15/12 2:07
4-Bromofluorobenzene (2)	125	70-130	2/15/12 2:07