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SUBJECT: Final April 2013 Long-Term Monitoring Report, AOC 9, Former Griffiss AFB,
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1. Enclosed please find the Final April 2013 Long-Term Monitoring Report for AOC 9 dated March 2014. Hard copies and CDs are provided as described on the attached distribution list. USEPA and NYSDEC elected not to comment on the draft report.
2. If you have any questions, please contact Ms. Cathy Jerrard at (315) 356-0810, ext. 204.

A handwritten signature in black ink, appearing to read "Michael F. McDermott", is positioned above the printed name.

MICHAEL F. MCDERMOTT
BRAC Environmental Coordinator

Attachment:
As noted

MAR 25 2014

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AOC 9, Former Griffiss Air Force Base Rome, New York.

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**Final April 2013
Long-Term Monitoring
Data Summary Report**

**AOC 9
Former Griffiss Air Force Base
Rome, New York**

Contract No. W912DQ-09-D-3013

March 2014

Prepared for:

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Certificate of Compliance

**Draft
April 2013 Long-Term Monitoring Data Summary Report
AOC 9
Former Griffiss Air Force Base, Rome, New York**

December 2013

On behalf of Ecology and Environment Engineering, P.C. (EEEPC), the undersigned certify that the attached document(s) were developed in conformance with EEEPC's Scope of Work, contract requirements, and EEEPC's Quality Control Plan.

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List of Abbreviations and Acronyms

AFCEC	Air Force Civil Engineering Center
AOC 9	Area of Concern 9
BGS	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene
CD	compact disk
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	contaminant of concern
DCB	dichlorobenzene
DCE	dichloroethylene
DO	dissolved oxygen
DUSR	Data Usability Summary Report
EEEP	Ecology and Environment Engineering, P.C.
EPA	(United States) Environmental Protection Agency
ERPIMS	Environmental Restoration Program Information Management System
ESI	Expanded Site Investigation
FID	flame ionization detector
Griffiss AFB	former Griffiss Air Force Base
MAROS	Monitoring and Remediation Optimization System Software Version 2.2
MCL	maximum contaminant level
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MW	monitoring well

List of Abbreviations and Acronyms (cont.)

NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation reduction potential
Parsons	Parsons Government Services, Inc.
PCE	tetrachloroethylene
PDI	Predesign Investigation
PDI 2	second predesign investigation
PID	photoionization detector
QA	quality assurance
QC	quality control
RAO	remedial action objective
SI	Supplemental Investigation
SW	surface water
TCE	trichloroethylene
USACE	United States Army Corps of Engineers
VOC	volatile organic compound
WSA	Weapons Storage Area

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Introduction

Ecology and Environment Engineering, P.C. (EEEEPC), under contract to Parsons Government Services, Inc. (Parsons), which is under contract to the U.S. Army Corps of Engineers (USACE) Kansas City District (Contract No. W912DQ-09-D-3013) performed the first round of long-term groundwater and surface water monitoring at Area of Concern 9 (AOC 9) of the former Griffiss Air Force Base (Griffiss AFB) in Rome, New York, on April 8 to 10, 2013 (see Figure 1-1). The previous four rounds of performance groundwater and surface water monitoring were provided under separate cover in the *Final May 2011 and October 2011 Performance Monitoring Data Summary Report* and the *Final April and September 2012 Performance Monitoring Data Summary Report* (EEEEPC 2013b and 2013a). The results of this first round of long-term monitoring are presented in Section 2. This first round of long-term monitoring data is discussed in Section 3. In addition, figures from the four rounds of performance monitoring sampling are provided in Appendix A for comparison purposes.

1.1 Purpose of Investigation

The three-phased groundwater monitoring program consists of baseline, performance, and long-term monitoring of volatile organic compound (VOC) levels in the groundwater and in Six Mile Creek. A phased approach is consistent with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) response action process. Monitoring well data are screened against the most stringent of either the New York State Department of Environmental Conservation (NYSDEC) Class GA groundwater criteria or the United States Environmental Protection Agency (EPA) maximum contaminant levels (MCLs) (NYSDEC 2009; EPA 2006), which also represent the remedial action objectives (RAOs) established in the *Final Record of Decision* for this project (see Table 1-1; EEEPC 2010a). For the contaminants of concern (COCs) at AOC 9, the NYSDEC Class GA criteria for groundwater are the more stringent of the screening criteria. Surface water samples are screened against the NYSDEC Class C freshwater fish propagation standards and guidance values (NYSDEC 2009).

The baseline sampling conducted from July 27 to 29, 2010, consisted of groundwater sampling of eight monitoring wells (G009-MW01, G009-MW02, AOC9-MW05, MW06, MW14, MW15, MW17, and MW18) and surface water sampling of three locations (AOC9-SW01, SW02, and SW03). These groundwater and surface water samples were analyzed to establish baseline VOC concentrations in the

groundwater plume and Six Mile Creek before remediation began (EEEPC 2010c).

The performance monitoring was conducted to evaluate the short-term effectiveness of the remediation efforts with a total of four sampling events over two years (May 2011, October 2011, April 2012, and September 2012). The performance monitoring consists of groundwater sampling of five monitoring wells (AOC9-MW06, MW14, MW15, MW17, and MW19) and surface water sampling of three locations (AOC9-SW01, SW02, and SW03).

The long-term effectiveness of the remediation efforts will be monitored during the long-term monitoring for three more years with annual sampling events. The long-term monitoring consists of groundwater sampling of nine monitoring wells (G009-MW01, G009-MW02, AOC9-MW05, MW06, MW14, MW15, MW17, MW18, and MW19) and surface water sampling of three locations (AOC9-SW01, SW02, and SW03). This first sampling event is identified as the April 2013 long-term monitoring.

Following the first three years of annual long-term monitoring, it is anticipated that monitoring will continue on an every-other-year basis until concentrations of hazardous substances in groundwater are below the RAOs. Once the RAOs have been achieved, monitoring will continue until three consecutive rounds of sampling indicate that the concentrations of groundwater contaminants remain below RAOs (for a total of four consecutive sampling rounds). At that point, the Air Force will then petition the regulatory agencies for no further action. Modeling performed during evaluation of the remedial alternatives for AOC 9 indicated that the total duration of the remedial action would likely span 11 years beginning in 2011 with the implementation of the remedial action (EEEPC 2010d).

1.2 AOC 9 Site Description

AOC 9 is a grass-covered area approximately 1,500 feet long and 650 feet wide located in the southwest portion of the inactive Weapons Storage Area (WSA; see Figure 1-1). The site is part of a strip of land that lies between an airplane runway to the southwest and extends into the Weapons Storage Area (WSA) to the northeast. Perimeter Road runs through the site and Six Mile Creek borders the southwestern edge of the site.

The area comprising AOC 9 was originally farmland in the 1930s before the base was constructed. In the 1940s and 1950s, the first landfill for the base was established beneath the northern portion of the WSA extending south between Perimeter Road and Six Mile Creek. Aerial photographs show that the landfill was active between 1943 and 1957 but no later than 1960. The type of material buried at this site is unknown; however, it is reported that large quantities of the landfill material were removed during construction of the WSA.

Two munitions storage bunkers were erected between Perimeter Road and Six Mile Creek in the early 1950s. One of the bunkers (also referred to as igloos) was

removed in the late 1970s or early 1980s (before 1981), and the other bunker was removed in 1992. Although the bunkers were initially used for munitions storage, they were later used to store hazardous materials.

The site's status was changed from "Area of Interest" to "Area of Concern" in 1998 when groundwater samples collected during the Expanded Site Investigation (ESI) were found to contain chlorinated solvents at concentrations exceeding NYSDEC Class GA standards and EPA MCLs (EPA 2006; NYSDEC 2009).

AOC 9 is currently inactive and access is somewhat restricted by Perimeter Road Gates 4 and 11. The southern portion of this area is expected to remain vacant in the future, acting as a buffer zone between the runway and future development in adjacent areas. The northern portion of the site extends into the former WSA boundary and is expected to be zoned as a nonresidential, industrial area.

The ground surface at AOC 9 slopes gently downward toward Six Mile Creek. Groundwater flows southwest toward the creek. Depth to groundwater is approximately 10 to 12 feet but is closer to the ground surface between Perimeter Road and Six Mile Creek. There are several locations in this area where shallow groundwater discharges to the surface. Three intermittent drainageways that discharge to Six Mile Creek exist on the southern portion of the site.

Debris (e.g., glass, slag, bricks, ceramics, cinderblocks, asphalt, concrete, wire, and metal) encountered during test pit excavations in the southern portion of the former landfill (south of the WSA) accounted for less than 1% by volume of excavated material. The lack of waste materials observed from the test pit excavations support reports that the contents of the former WSA landfill had been removed before the WSA was built.

Prior to excavation of the contaminant source area, a contaminated groundwater plume (chlorobenzene, trichloroethylene [TCE], dichloroethylene [DCE]) extended downgradient from AOC 9 for approximately 1,500 feet and covered approximately 14.6 acres. The lateral extent of the plume was approximately 400 feet and the vertical extent range was from ground surface to approximately 20 feet below ground surface (BGS). The leading edge of the plume had reached Six Mile Creek.

The contaminated aquifer is composed of silty-fine to medium-grained sands with little coarse sand with discontinuous gravel seams. North of Perimeter Road, the aquifer is found in an interval from approximately 3 to 28 feet BGS. South of Perimeter Road there is less overburden and the aquifer extends from 1 to 18 feet BGS. A thin till layer above the Utica Shale bedrock underlies the aquifer, but contamination has not been detected in the bedrock.

1.3 AOC 9 Previous Investigation Background

In 1997, an ESI was performed (E & E 1998). The main objective of the ESI was to investigate the nature and extent of environmental contamination from histori-

cal releases at the site in order to determine whether any remedial action was necessary to prevent potential threats to human health and the environment arising from exposure to site conditions.

The ESI included the installation and sampling of four permanent monitoring wells. Analytical results indicated the presence of benzene, chlorobenzene, cis-1,2-DCE, 1,2-dichlorobenzene (DCB), 1,3-DCB, 1,4-DCB, tetrachloroethylene (PCE), and TCE in one or more wells in concentrations that exceeded screening criteria. Several metals, including aluminum, iron, manganese, and potassium, were also detected in concentrations that exceeded screening criteria in one or more wells.

In 2000, a Supplemental Investigation (SI) was performed. A total of 88 Geoprobe and six Hydropunch groundwater screening samples were collected from 45 locations. Twenty-six of the 45 locations were vertically profiled (i.e., up to three samples were collected from different depths at the same location). In addition, four new monitoring wells were installed and sampled, and four existing monitoring wells were resampled. Analytical results for the Geoprobe/samples indicated the presence of 16 VOCs at levels exceeding the most stringent criteria. Analytical results for the monitoring wells indicated the presence of 14 VOCs and five metals at concentrations exceeding the most stringent screening criteria.

In 2002, a second SI was performed to collect additional data to further delineate the chlorinated hydrocarbon plume and determine if petroleum hydrocarbons were present within the groundwater. A total of 56 Geoprobe groundwater screening samples were collected from 14 locations. Eleven of the 14 locations were vertically profiled (i.e., up to five samples were collected from different depths at the same location). Analytical results for the Geoprobe samples indicated the presence of 15 VOCs at levels exceeding the most stringent screening criteria.

Based on these results, the overall shape of the contaminant plume at that time appeared to be linear and oriented northeast/southwest (approximately 850 feet long) with a relatively narrow center. The downgradient portion appeared to be the widest due to natural dispersion and the change in direction of groundwater flow in proximity to the creeks. Subsequent investigations provided additional data to better define the entire plume.

During the SI, five test pits were excavated to the water table and groundwater samples were collected to determine if petroleum hydrocarbons were present within the groundwater. Analytical results indicated that there was no significant petroleum hydrocarbon contamination in the test pit samples.

During the first predesign investigation (PDI) conducted in September through November 2006 by EEEPC, four additional groundwater monitoring wells (MWs; AOC9-MW14 through MW17) were installed at the site. Twenty-three different VOCs were detected in at least one of the groundwater samples collected during

this investigation. The highest concentrations of total VOCs (1,2-DCB, 1,4-DCB, chlorobenzene, and benzene) were detected in presumed upgradient wells MW14 and MW15 at 2,082 micrograms per liter ($\mu\text{g/L}$) and 1,989 $\mu\text{g/L}$, respectively. These concentrations at presumed upgradient wells prompted further investigation and a potential source of groundwater contamination was found in the soil upgradient of Six Mile Creek and Perimeter Road. Two additional PDIs were conducted to determine the extent and nature of this source.

The second predesign investigation (PDI 2) was performed in February through April 2007. This study included the installation of 25 temporary monitoring wells and identified areas containing significantly higher levels of chlorobenzene and related compounds east of Building 913. Monitoring wells TW39 and TW32 had chlorobenzene concentrations of 14,400 $\mu\text{g/L}$ and 8,580 $\mu\text{g/L}$, respectively. These concentrations were five to 10 times higher than the highest concentrations historically detected at AOC 9.

A third predesign investigation (Additional PDI) was performed in June through October 2007 to better define the plume and further identify the potential soil contaminant source area. During this investigation, a total of 56 new temporary monitoring wells were installed around the site. Twenty-two different VOCs were detected in the groundwater samples collected from the temporary monitoring wells at concentrations exceeding the groundwater standards. The highest total VOC concentrations were detected in groundwater samples collected from temporary wells TW45 (3,100 $\mu\text{g/L}$), TW71 (3,300 $\mu\text{g/L}$), and TW100 (3,400 $\mu\text{g/L}$). In addition, 42 boreholes were installed in the soil and soil cores were screened continuously with a photoionization detector and flame ionization detector (PID/FID) from ground surface to refusal (in the glacial till layer, approximately between 20 and 30 feet BGS). Samples were taken at depth intervals where the highest PID/FID readings were measured. Twelve VOCs (1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,2-DCB, 1,3-DCB, 1,4-DCB, chlorobenzene, ethylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, and toluene) were detected at concentrations exceeding screening criteria in the soil samples collected from the 42 soil borings. The highest total VOC concentrations were detected in soil samples collected from boreholes SB01 (1,100 milligrams/kilogram [mg/kg]) and SB12 (1,600 mg/kg) with chlorobenzenes representing the largest fraction of VOCs. The sample results and field observations indicated that there was a 6-foot-thick gray to black smear zone of contamination at the top of the saturated zone, which is located at depths ranging from 8 to 17 feet BGS.

Based on the above PDIs, the soil east of Building 913 was identified as the source of the AOC 9 groundwater contamination.

Baseline sampling was conducted at AOC 9 from July 27 to July 29, 2010, to establish baseline VOC concentrations in the groundwater plume and Six Mile Creek, before the remedial action (source excavation) began on September 1, 2010 and are presented in the *Final Baseline Monitoring Data Summary Report*,

AOC 9 Former Griffiss Air Force Base, Rome, New York (EEEPC 2010c). Baseline sampling consisted of sampling eight monitoring wells (G009-MW01, G009-MW02, AOC9-MW05, MW06, MW14, MW15, MW17, and MW18) and three surface water (SW) locations (AOC9-SW01, SW02, and SW03). Groundwater and surface water samples were analyzed for VOCs (EPA Method SW8260B).

Twenty-one VOCs, including chlorobenzene; 1,2-DCB; 1,4-DCB; TCE; PCE; and several petroleum compounds including benzene, toluene, ethylbenzene, and xylene (BTEX) were detected in the groundwater samples collected. Eleven of the contaminants were detected in at least one sample at concentrations exceeding NYSDEC Class GA Groundwater standards. The highest total VOC concentrations were detected in monitoring wells MW14 (2,100 µg/L), MW15 (1,700 µg/L), and MW17 (890 µg/L). Monitoring wells MW14, MW15, and MW17 are located in the center of the plume downgradient of the contaminant source area (see Figure 1-2 in Appendix A).

A comparison of baseline analytical results to the historical analytical results indicated that the AOC 9 groundwater plume had, in general, remained relatively stable. Based on the analytical results obtained from monitoring wells MW01 and MW02, the plume did not appear to have widened south of Perimeter Road, nor does the leading edge of the plume appear to have continued to advance based on the analytical results obtained from monitoring wells MW05 and MW06. Surface water sample results obtained from sample locations SW01, SW02, and SW03 have also been relatively consistent. The upstream location (SW01) has had total VOC concentrations ranging from non-detect to 1.78 µg/L. The location where the center of the groundwater contaminant plume intersects Six Mile Creek (SW02) has had total VOC concentrations ranging from non-detect to 5 µg/L, and sample location SW03, at the downstream edge of the groundwater plume's intersection with Six Mile Creek has had total VOC concentrations ranging from non-detect to 4 µg/L.

1.4 AOC 9 Remedial Design and Monitoring Summary

The remedial design includes removal of the source area through excavation of contaminated soil, which was completed in December 2010, treatment of contaminated groundwater using chemical oxidation, which is currently scheduled for completion in 2013, and land use controls (EEEPC 2010d). Additionally, three groundwater and surface water monitoring phases, baseline sampling, performance monitoring, and long-term monitoring, will be performed in conjunction with the remedial action as described in the *Final Work Plan Baseline, Performance, and Long-Term Monitoring at AOC 9* (EEEPC 2010e). Baseline sampling was conducted to provide a snapshot of the groundwater contaminant levels prior to implementation of the remedial action for comparison to the groundwater monitoring, which will be performed after the remedial action. The May 2011, October 2011, April 2012, and September 2012 performance monitoring events were performed to evaluate the short-term effectiveness of the remediation efforts; by confirming the downward trend during the first two years following excavation, and determining which of the RAOs have been or have not been achieved, for

each of the monitoring wells sampled. The long-term monitoring will be performed to monitor the long-term effectiveness of the remediation efforts.

As described in the work plan, a total of eight sampling events are currently planned: one baseline sampling, four biannual performance monitoring, and three annual long-term monitoring. However, following the first three years of annual long-term monitoring, it is anticipated that monitoring will continue on an every-other-year basis until concentrations of hazardous substances in groundwater are below RAOs. After reaching the RAOs, the monitoring will again be performed annually until three consecutive rounds of sampling indicate that the concentrations of groundwater contaminants remain below the RAOs, allowing for unrestricted use of the site (EEEEPC 2010e). If an increasing trend in contaminants of concern concentration is identified in any monitoring well or surface water sampling location (e.g., three consecutive monitoring events showing a statistically increasing trend), the Air Force will propose to the EPA and NYSDEC that additional action be performed. Additional oxidant injections or additional excavations may be executed without requiring either an Explanation of Significant Differences or Record of Decision amendment (EEEEPC 2010a).

Additional activities at this site included installation and development of two new permanent monitoring wells (AOC9-MW18 and MW19). Monitoring well MW18 was installed by Parsons, prior to the baseline sampling, east of the treatment area and serves as an upgradient well (see Figure 2-1 for well locations). Total VOC concentration during baseline sampling in MW18 was 3.2 µg/L. The remedial action at AOC 9 was conducted following the installation of MW18. Well MW19 was installed in the spring 2011, prior to the May 2011 performance sampling, following the remedial excavation in the eastern portion of the groundwater contaminant source area at the location of former temporary well TW39, to function as a former source area well (see Figure 2-1 for well locations). The screened interval in MW19 targets the interval previously screened by temporary well TW39 (9.3 to 19.3 feet BGS), which contained a total VOC concentration of 21,610 µg/L. MW19 was constructed with a 10-foot (0.01-inch slot) PVC screen in accordance with USACE protocols.

All existing monitoring wells were surveyed by the subcontractor, LaFave White & McGivern, during previous investigations to obtain horizontal locations and vertical elevations of each monitoring well. The surveys utilized the existing benchmarks located on Griffiss AFB and are in the New York Central NAD 83 State Plane coordinate system. Horizontal measurements and vertical measurements were obtained to accuracy of 0.001 foot and 0.01 foot, respectively.

Table 1-1 AOC 9 Groundwater Cleanup Goals/Remedial Action Objectives

Contaminants of Concern ^a	Groundwater Cleanup Goal ^b (µg/L)
1,2-Dichlorobenzene	3
1,2-Dichloroethane	0.6
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
1,3-Dichlorobenzene	3
1,4-Dichlorobenzene	3
Acetone	50
Benzene	1
Chlorobenzene	5
cis-1,2-Dichloroethylene	5
Ethylbenzene	5
Isopropylbenzene	5
Methylene Chloride	5
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
o-Xylene	5
sec-Butylbenzene	5
Trichloroethylene	5
tert-Butylbenzene	5
Tetrachloroethylene	5
Vinyl Chloride	2
Xylene (Total)	5

Notes:

^a From the *Final Record of Decision for Area of Concern 9 (SD-62)* (EEEPC 2010a).

^b New York State Department of Environmental Conservation (NYSDEC 2009) Class GA groundwater standard.

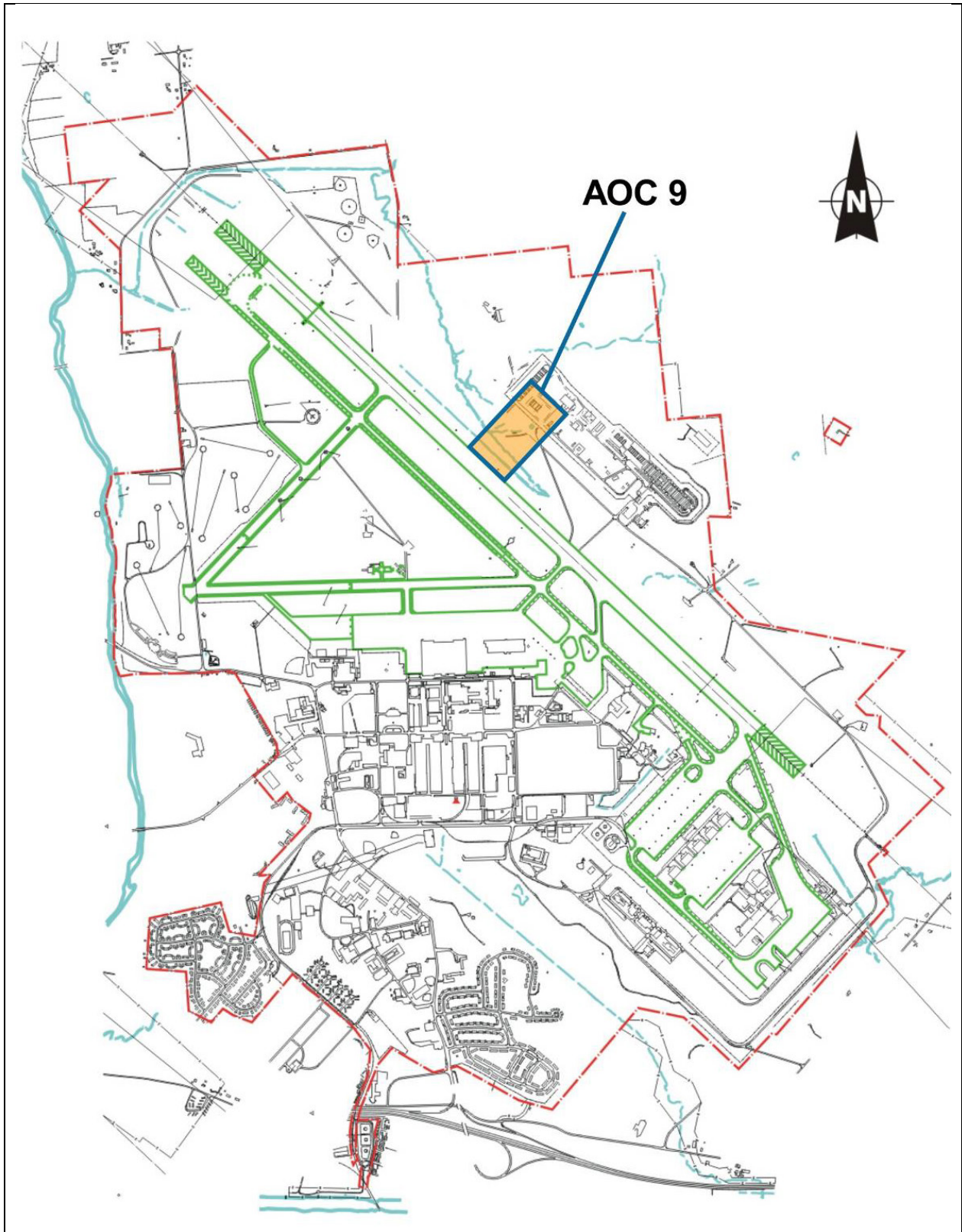


Figure 1-1 AOC 9, Former Griffiss Air Force Base, Rome, New York

2

AOC 9 Long-Term Monitoring Activities

This section presents the field activities performed during the AOC 9 April 2013 long-term monitoring (see Appendix B, Daily Activity Forms). The work performed at AOC 9 described in this report was performed in accordance with the work plan (EEPC 2010e), with minor deviations from the work plan described in Section 2.5.

2.1 Scope of Work

April 2013 long-term sampling was conducted at AOC 9 in accordance with the work plan as described in Section 1.4 (EEPC 2010e). Long-term sampling consisted of sampling nine monitoring wells (G009-MW01, MW02, AOC9-MW05, MW06, MW14, MW15, MW17, MW18, and MW19) and three surface water locations (AOC9-SW01, SW02, and SW03; see Figure 2-1):

- Wells MW01 and MW02 were sampled to monitor the width of the contaminant plume and the effectiveness of the remedial action in the lateral portions of the plume.
- Wells MW05 and MW06 were sampled as sentinel wells to evaluate the stability of the leading edge of the contaminant plume and to monitor the effectiveness of the remedial action in the area downgradient of the remedial action treatment area.
- Wells MW14, MW15, and MW17 were sampled to monitor the effectiveness of the remedial action in the center of the plume in the area being treated during the remedial action and downgradient of the treatment area.
- Well MW18 was sampled to monitor contaminant concentrations upgradient of the groundwater plume.
- Well MW19 was sampled to monitor the effectiveness of the remedial action in the center of the former source area, following completion of the source area excavation.
- Surface water sample locations SW01 through SW03 were sampled to monitor contaminant concentrations within Six Mile Creek.

2 AOC 9 Long-Term Monitoring Activities

April 2013 long-term sampling results, in conjunction with the results from the previous four performance monitoring sampling events will be used to continue to evaluate the effectiveness of the remediation efforts. Sampling was conducted from April 8 to 10, 2013.

2.1.1 Groundwater Sampling

Groundwater samples were collected from MW01, MW02, MW05, MW06, MW14, MW15, MW17, MW18, and MW19 and analyzed by Katahdin Analytical Services, located in Scarborough, Maine. Groundwater samples were analyzed for VOCs (EPA Method SW8260B), in accordance with the *Final Work Plan, Baseline, Performance, and Long-Term Monitoring at AOC 9* (EEEP 2010e). Prior to collection of the groundwater samples, a minimum of three well volumes of groundwater was purged from each well using EPA low-flow procedures. The wells were purged and sampled with a pump/controller and dedicated bladder pumps and associated tubing. Field parameters (i.e., turbidity, pH, temperature, conductivity, oxidation reduction potential [ORP], and dissolved oxygen [DO]) were collected and recorded on groundwater sampling forms during purging. The completed groundwater sampling forms are provided in Appendix C and a complete list of samples collected is provided in Table 2-1. Static water levels were also measured and recorded for each monitoring well listed on Table 2-2 to create a current groundwater contour map (see Figure 2-2). A photograph of each groundwater sample collected is provided in Appendix D in accordance with USACE protocols.

2.1.2 Surface Water Sampling

Surface water samples were collected from SW01 through SW03, and analyzed by Katahdin Analytical Services. Surface water samples were analyzed for VOCs (EPA Method SW8260B), in accordance with the work plan (EEEP 2010e). The samples were collected by filling a dedicated sample jar with water directly from Six Mile Creek, then transferring the creek water to pre-preserved approved sample containers, leaving no head space. Field parameters (i.e., turbidity, pH, temperature, conductivity, ORP, and DO) were collected and recorded during sampling. The completed surface water sampling forms are provided in Appendix C and a complete list of samples collected is provided in Table 2-1.

2.1.3 Groundwater Elevation Measurements

Groundwater elevations were collected in accordance with the work plan (EEEP 2010e) by measuring the depth to water at 16 locations (see Table 2-2) using an electronic water level indicator to measure the static water levels from the top of the casing at each location. These measurements were used to create groundwater contour maps for each event (see Figure 2-2).

2.1.4 Well Inspections and Maintenance

During groundwater elevation measurements, inspections were performed at each permanent well location and recorded on the well status log (see Appendix E). Any necessary well maintenance was completed by Parsons from May 1 to 3, 2013. A summary of the maintenance completed is provided below;

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- G009-MW02: The bollards were repaired with new concrete and painted safety yellow.
- G009-MW04: The bollards were repaired with new concrete and painted safety yellow.
- AOC9-MW06: The bollards were repaired with new concrete and painted safety yellow.
- AOC9-MW12: The annular space between the well riser and casing was filled with clean item #1 silica sand.
- AOC9-MW13: The exterior protective well cover was painted brown to cover the incorrect well number labeling and was relabeled with the correct well number. The interior steel identification tag was installed.
- AOC9-MW19: A new locking cap was installed and “MW-19” was embedded on the exterior flush mount cover.
- Various Locations: An identification tag/label was added to various wells that were not properly identified.

A summary of all work completed is attached in Appendix E.

2.2 Equipment Decontamination

Equipment decontamination was performed in accordance with the work plan (EEEPC 2010e).

Groundwater and surface water field testing instruments were decontaminated by rinsing the water level indicator, flow-through cell and pH, temperature, conductivity, DO, and ORP probes with deionized water between each use.

2.3 Investigation Derived Waste

Investigation-derived water was handled in accordance with the work plan (EEEPC 2010e). Purge water generated during groundwater sampling was collected in 5-gallon buckets and field-screened with a PID to evaluate if it was contaminated. PID readings were taken directly from the surface of the collected purge water. No PID readings above zero parts per million were detected from the field screening of the purge water; therefore, water was discharged to the ground adjacent to the sampled well.

2.4 Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) samples were collected in accordance with the work plan (EEEPC 2010e). Analytical data have been validated for sam-

ples collected as part of this investigation. Raw data and the Data Usability Summary Report (DUSR) are presented in Appendices F and G, respectively.

Field QC samples included two groundwater duplicates and one trip blank during the April 2013 sampling event. Duplicate samples provide insight as to the homogeneity of the sample matrix and establish a degree of confidence that the sample represents site conditions. Field duplicates were collected at the rate of one duplicate per 10 original samples (10%); therefore, two duplicates were collected for the nine ground and three surface water samples collected. The field duplicate collected during April 2013 showed good precision.

A trip blank was collected to establish that the transport of sample containers to and from the field did not result in the contamination of the sample from external sources. No compounds were detected in the trip blank for the April 2013 sampling event.

A few sample results were qualified “J” as estimated because of minor calibration deviations, laboratory control sample recovery and matrix spike recoveries. Some results that are deemed to be estimated are reported to be above the site clean-up goals, therefore, no significant impact of data usability is deemed to have occurred. Other results that are in the range of site clean-up goals could impact usability of the results to evaluate whether concentrations exceed site clean-up goals. The results should be usable with supporting data, trend analysis, and evaluation of laboratory error.

2.5 Work Plan Deviations

For the April 2013 sampling event, groundwater measurements were only collected from the 16 permanent monitoring wells on site. Measurements were not taken at temporary wells or piezometers as called for in the work plan, as many of them were removed during the remedial excavation. Approval for this change was received from the USACE prior to the start of the previous performance monitoring sampling rounds; therefore, a field adjustment form was not generated.

There were no other deviations to the work plan during the April 2013 sampling event.

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Table 2-1 AOC 9 Long-Term Monitoring, Groundwater and Surface Water Sample Summary, Former Griffiss Air Force Base, Rome, New York

Monitoring Well			Analyses
Sample Number	Screen Interval (feet BGS)	Comment	TCL VOCs – SW8260B
April 2013 Long-Term Monitoring			
G009-MW01LTM040913	4.0-9.0		X
G009-MW02LTM040913	4.0-9.0	MS/MSD	X
AOC9-MW05LTM040813	4.0-14.0		X
AOC9-MW06LTM040913	4.2-14.2		X
AOC9-MW14LTM040913	14.0-24.0		X
AOC9-MW14/DLTM040913	14.0-24.0	Duplicate	X
AOC9-MW15LTM040913	9.0-14.0		X
AOC9-MW15/DLTM040913	9.0-14.0	Duplicate	X
AOC9-MW17LTM040913	9.0-14.0		X
AOC9-MW18LTM041013	9.0-19.0		X
AOC9-MW19LTM041013	9.0-19.0		X
AOC9-SW01LTM040813	-		X
AOC9-SW02LTM040813	-		X
AOC9-SW03LTM040813	-		X
AOC9-TB1-04082013	-	Trip Blank	X

Key:

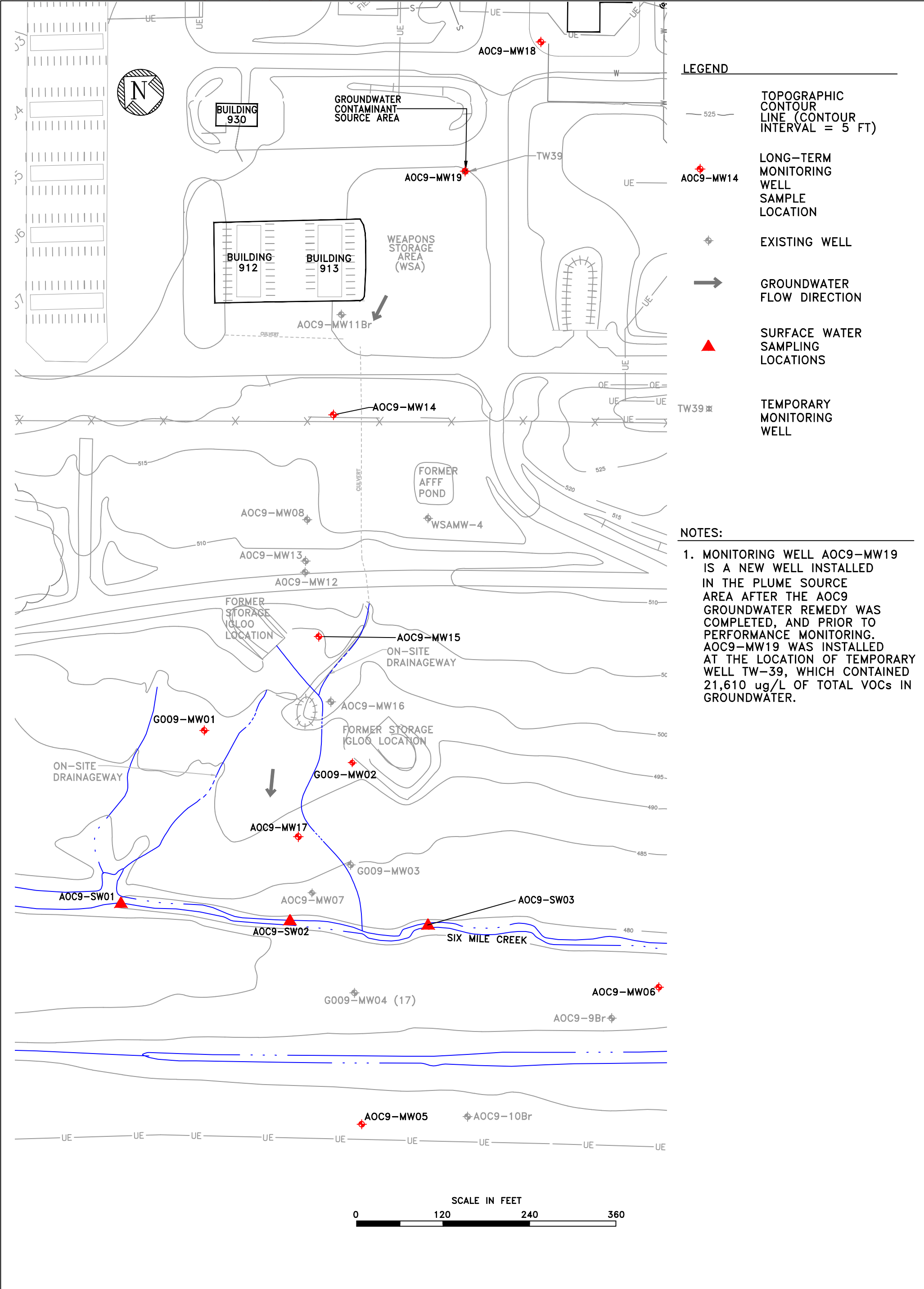
AOC = area of Concern
 BGS = below ground surface
 /D = duplicate
 MS/MSD = matrix spike/matrix spike duplicate
 TB = trip blank
 TCL = target compound list
 VOCs = volatile organic compounds

Table 2-2 AOC 9 Long-Term Monitoring Groundwater Elevation Data, Former Griffiss Air Force Base, Rome, New York

Monitoring Well ID	Date	Ground Surface Elevation (feet AMSL)	Water Level (feet bgs)	Water Level Elevation (feet AMSL)	Comments
April 2013 Long-Term Monitoring					
G009-MW01	4/8/2013	492.67	-0.37	493.04	Negative value indicates water was above ground surface.
G009-MW02	4/8/2013	494.54	3.35	491.19	
G009-MW03	4/8/2013	485.1	0.84	484.26	
G009-MW04	4/8/2013	483.97	7.47	476.50	
AOC9-MW05	4/8/2013	482.72	4.11	478.61	
AOC9-MW06	4/8/2013	482.57	5.27	477.30	
AOC9-MW07	4/8/2013	483.25	2.98	480.27	
AOC9-MW08	4/8/2013	514.28	9.14	505.14	
AOC9-MW12	4/8/2013	509.09	4.75	504.34	
AOC9-MW13	4/8/2013	508.53	3.97	504.56	
AOC9-MW14	4/8/2013	519.05	12.88	506.17	
AOC9-MW15	4/8/2013	500.04	0.99	499.05	
AOC9-MW16	4/8/2013	497.31	1.37	495.94	
AOC9-MW17	4/8/2013	487.51	1.69	485.82	
AOC9-MW18	4/8/2013	527.84	13.55	514.29	
AOC9-MW19	4/8/2013	523.38	10.80	512.58	

Key:

- AMS = above mean sea level
- AOC = area of Concern
- BGS = below Ground Surface
- MW = monitoring Well
- NA = not available





3

AOC 9 Long-Term Monitoring Findings

This section presents the results from the April 2013 long-term monitoring conducted at AOC 9 at the former Griffiss AFB in Rome, New York, as described in Section 2.

The AOC 9 April 2013 long-term monitoring was intended to evaluate the long-term effectiveness of the remediation efforts on VOC concentrations in the groundwater and Six Mile Creek. The AOC 9 April 2013 long-term monitoring groundwater data are screened against the most stringent of either the NYSDEC Class GA groundwater criteria or the EPA MCLs. For groundwater COCs at AOC 9, the NYSDEC Class GA criteria are the more stringent of the screening criteria. Surface water data is screened against the NYSDEC Class C freshwater fish propagation standards and guidance values. Data collected during the AOC 9 April 2013 long-term monitoring have been provided by the laboratory in Environmental Restoration Program Information Management System (ERPIMS)-compatible format. The long-term monitoring data will be added to the Air Force database.

3.1 April 2013 Long-Term Monitoring

3.1.1 Groundwater Sampling Results

Eleven groundwater samples were collected from nine monitoring wells, including two duplicate samples, and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. The purpose of the water sampling was to evaluate VOC concentrations within the contaminant plume following the remedial excavation activities. The water samples were collected between April 8 and 10, 2013.

Groundwater samples were collected from monitoring wells screened predominantly in very fine to medium grained sand at depths ranging from 4 to 24 feet BGS and constructed with either a 5-foot or a 10-foot (2-inch diameter, 0.01-inch slot) PVC screen. Each sample was analyzed for VOCs (EPA Method SW8260B) as described in Section 2. A summary of the positive analytical results for April 2013 long-term groundwater samples is presented in Table 3-1. Historical groundwater sampling results are presented in Table 3-3. Figure 2-1 shows the locations of the monitoring wells.

3 AOC 9 Long-Term Monitoring Findings

The completed groundwater sampling forms are provided in Appendix C; the complete analytical data are included on compact disk (CD) in Appendix F; a complete list of samples collected is provided in Table 2-1; and Figure 3-1 shows the locations of the monitoring wells with total VOC contaminant concentrations.

The primary COCs for AOC 9 include; chlorobenzene, 1,2-DCB, 1,4-DCB, and TCE, which constitute approximately 96% of the total VOCs detected on-site within the center line of the plume. Figure 3-1 illustrates the total VOC concentrations in groundwater based on the analytical data obtained during the April 2013 long-term monitoring event and the historical geoprobe data that was used to generate the non-detect contour lines.

Source Area Well (MW19)

The four primary COCs, 1,2-DCB, 1,4-DCB, chlorobenzene, and TCE, were detected in the groundwater sample collected at MW19. However, only chlorobenzene (58 µg/L) exceeded NYSDEC Class GA groundwater standards. Additionally, two other VOCs (cis-1,2-dichloroethylene [3.2 µg/L] and benzene [2.0 µg/L]), were detected with benzene exceeding the screening criteria.

Upgradient Well (MW18)

No contaminants were detected in the groundwater samples collected at MW18.

Center Line of Plume (Downgradient of Source Area) Wells (MW14, MW15, and MW17)

Nineteen VOCs, including the four primary COCs, chlorobenzene, TCE, and 1,2-DCB, and 1,4-DCB were detected in the groundwater samples collected. Four of the contaminants exceeded the NYSDEC Class GA groundwater standards. Chlorobenzene, 1,2-DCB, and 1,4-DCB exceeded the screening criteria in all three monitoring wells. TCE (15 µg/L) only exceeded the screening criteria in MW17. The highest total VOC concentrations were detected in monitoring wells MW14 (330 µg/L) and MW15 (490 µg/L) during this April 2013 sampling event.

Sentinel (Downgradient) Wells (MW05 and MW06)

No contaminants were detected in the groundwater samples collected at MW05. TCE (1.2 µg/L), a primary COC, was the only contaminant detected at MW06, however it did not exceed the screening criteria.

Lateral Wells (MW01 and MW02)

Two primary contaminants of concern, 1,2-DCB (0.42 µg/L) and TCE (0.88 µg/L) were detected at MW01. Only TCE (0.36 µg/L) was detected at MW02. No contaminants exceeded the screening criteria.

Groundwater Elevation Measurements

Groundwater elevations were collected in accordance with the work plan by measuring the depth to water at 16 locations (see Table 2-2) using a water level indicator to measure the static water levels from the top of the casing at each loca-

tion. These measurements were used to create a groundwater contour map (see Figure 2-2).

Based on these data, the groundwater on-site flows generally to the southwest from the vicinity of Building 917, through the AOC 9 contaminant source area, and ultimately towards Six Mile Creek. The depth to groundwater and direction of groundwater flow has remained consistent following the excavation and back-fill of the contaminant source area, while exhibiting typical seasonal variations.

3.1.2 Surface Water Sampling Results

Three surface water samples were collected from Six Mile Creek (SW01, SW02, SW03) and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. The purpose of the surface water samples collected was to establish April 2013 long-term monitoring VOC concentrations within Six Mile Creek following the remedial excavation activities. The surface water samples were collected on April 8, 2013.

Figure 2-1 shows the location of the surface water sampling locations and Figure 3-1 shows the total VOC contaminants in surface water based on analytical data obtained from this monitoring event.

Two VOCs were detected in the surface water samples collected during this investigation (see Table 3-2). Naphthalene (0.36 µg/L) and 1,2-DCB (0.45 µg/L) were detected only in surface water sample SW03, which was collected at the location downstream of where the center of the groundwater plume intersects Six Mile Creek. SW03 did not exceed the screening criteria for naphthalene and no screening criteria exists for 1,2-DCB under the NYSDEC Class C freshwater fish propagation standards and guidance values.

The completed surface water sampling forms are provided in Appendix C, the complete analytical data are included on CD in Appendix F, a complete list of samples collected is provided in Table 2-1, a summary of the positive analytical results for the surface water samples is presented in Table 3-2, and Figure 3-1 shows the locations of Six Mile Creek surface water sample location with total VOC contaminant concentrations.

3.1.3 Trend Analysis

Available historic data collected from monitoring wells MW01, MW02, MW05, MW06, MW014, MW15, MW17, MW18, and MW19 and surface water sample locations SW01, SW02, and SW03 are provided in Tables 3-3 and 3-4, respectively. Data collected in 2003 during the groundwater treatability study, during which Fenton's reagent was injected into the groundwater in the vicinity of monitoring well MW08, have not been included in the historical data summary tables as the analytical results were impacted by the treatability study.

However, available data for each sample location, excluding MW05 as it is historically non-detect for all sampling events, have been plotted on trend graphs and

3 AOC 9 Long-Term Monitoring Findings

are provided in Figures 3-5 through 3-12. Data from the earliest sampling event identified on Table 3-3 to the current sampling event is provided for all wells. MW19 was first sampled during the May 2011 performance monitoring event, although data from TW39 (temporary well previously at the same location and screened over the same depth below ground surface as the current permanent monitoring well) is provided on Table 3-3 under the 2006 sampling event. The trend graphs show total VOC concentration for each sampling event and a discussion of the changes observed is described below.

Source Area Well (MW19)

MW19, installed following the remedial excavation, was first sampled during the first performance monitoring event. The total VOC concentration detected during that first performance sampling in May 2011 was 31 µg/L. The total VOC concentration in MW19 increased during both the second and third rounds of performance monitoring, 42 µg/L and 57 µg/L, respectively, before showing a slight decrease in total VOC concentration (43 µg/L) during the fourth round of performance monitoring in September 2012. During this first round of long-term monitoring, MW19 has shown an increase in total concentration (69 µg/L) (see Figure 3-12). While these fluctuations of total VOC concentration could be attributed to seasonal variation or rebounding of residual contamination within the source area, it should be noted that the overall total VOC concentration has decreased from 21,610 µg/L, which was detected in temporary monitoring well TW39 at the same location during the PDI 2 sampling performed in 2007. Two primary COCs showed a slight increase during this April 2013 event. Chlorobenzene increased from 31 to 58 µg/L and TCE increased from 0.30 to 0.55 µg/L. 1,2-DCB (5.4 to 2.1 µg/L) and 1,4-DCB (4.4 to 3.0 µg/L) both decreased in concentration during this April 2013 sampling event.

Upgradient Well (MW18)

MW18, installed prior to the remedial excavation and baseline sampling, was first sampled during the baseline event. MW18 was not sampled as part of the performance monitoring program. The total VOC concentration detected during the baseline event in July 2010 was 3.2 µg/L. During this first round of long-term monitoring, total VOC concentrations decreased to non-detect (see Figure 3-11).

Center Line of Plume (Downgradient of Source Area) Wells (MW14, MW15, and MW17)

MW14 continues to show a decrease in concentration in all four primary COCs since baseline sampling in July 2010. Since baseline sampling at MW14 in July 2010; chlorobenzene has decreased in concentration from 1,400 to 250 µg/L, 1,2-DCB has decreased from 130 to 26 µg/L, 1,4-DCB has decreased from 87 to 22 µg/L, and TCE has decreased from 28 to 1.0 µg/L. The total VOC concentration in MW14 decreased from 2,100 µg/L during baseline sampling to 330 µg/L during this first long-term monitoring sampling event.

Three primary COCs (chlorobenzene, 1,2-DCB, and 1,4-DCB) exceeded the screening criteria during this April 2013 performance monitoring event. The total

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VOC concentration in MW14 decreased from 1,200 µg/L during the first performance sampling to 330 µg/L during this first long-term monitoring sampling event. However, there is a slight increase in total VOC concentration, 250 to 330 µg/L, from the fourth performance monitoring sampling event to this first long-term monitoring event. 1,2-DCB (24 to 26 µg/L), 1,4-DCB (21 to 22 µg/L), and chlorobenzene (190 to 250 µg/L) all showed an increase in concentration during this April 2013 sampling event. Historically, this has been the first increase in total VOC concentration seen during the sampling rounds, but overall total VOC concentration has decreased (see Figure 3-8).

MW15 has shown a decrease in concentration in three of the primary COCs since baseline sampling. Chlorobenzene has decreased in concentration from 1,300 to 380 µg/L, 1,4-DCB has decreased from 64 to 24 µg/L, and TCE decreased from 2.0 to 0.78 µg/L. 1,2-DCB has shown an increase since baseline sampling, 55 to 73 µg/L. The total VOC concentrations at MW15 decreased from 1,700 to 490 µg/L. Historically, similar to MW14, this has been the first increase in total VOC concentration seen during the sampling rounds, but overall total VOC concentration trends in MW15 show a decrease (see Figure 3-9).

MW15 has shown an increase in concentration in all of the primary COCs since the fourth performance monitoring sampling event. The total VOC concentrations in MW15 increased from 350 µg/L during the fourth performance monitoring sampling to 490 µg/L during this first long-term monitoring sampling event. Historically, total VOC concentration trends in MW15 show a decrease (see Figure 3-9).

MW17 has shown a decrease in concentration in two of the primary COCs since baseline sampling in July 2010. Chlorobenzene has decreased in concentration from 760 to 180 µg/L and 1,4-DCB has decreased from 38 to 12 µg/L. TCE and 1,2-DCB have shown fluctuations in concentration since baseline sampling. Over the same time period, total VOC concentrations at MW17 decreased from 890 to 270 µg/L.

MW17 has shown a decrease in concentration in all four of the primary COCs, with all four exceeding the screening criteria since the fourth performance monitoring event in September 2012. Chlorobenzene has decreased in concentration from 300 to 180 µg/L, 1,4-DCB has decreased from 22 to 12 µg/L, and 1,2-DCB has decreased from 91 to 60 µg/L. TCE has decreased from 19 to 15 µg/L since the fourth performance sampling. At the same time, total VOC concentrations at MW17 decreased from 450 to 270 µg/L. Historically, total VOC concentrations in MW17 have fluctuated, but an overall decrease can be observed since baseline sampling in July 2010 on Figure 3-10.

Sentinel (Downgradient) Wells (MW05 and MW06)

Total VOC concentrations have remained non-detect in MW05 for all sampling events.

3 AOC 9 Long-Term Monitoring Findings

Total VOC concentrations detected at MW06 were 1.0 µg/L during the baseline sampling. Total VOC concentrations have fluctuated within MW06 during the performance monitoring sampling rounds, from a high of 6.9 µg/L detected during the second performance monitoring event to non-detect during the third performance monitoring event. Since the fourth performance monitoring sampling event, total VOC concentrations have decreased from 1.4 to 1.2 µg/L (see Figure 3-7).

Lateral Wells (MW01 and MW02)

MW01 has shown a decrease in total VOC concentration since baseline sampling, 1.4 to 0.88 µg/L, although MW01 was not sampled as part of performance monitoring sampling. Historically, an overall decrease in total VOC concentrations can be observed since the initial sampling at MW01 in 1997 (see Figure 3-5).

MW02 has shown a decrease in total VOC concentration since baseline sampling, 0.70 to 0.36 µg/L, although it was not sampled as part of performance monitoring sampling. Historically, total VOC concentrations in MW02 have shown some slight fluctuations, but an overall decrease can be observed since sampling in 2004 (see Figure 3-6).

Surface Water (SW01, SW02, and SW03)

Total VOC concentrations detected during baseline sampling at surface water locations SW01, SW02, and SW03 were non-detect, 5.2 µg/L, and 3.6 µg/L, respectively. During the performance monitoring events surface water sample results showed fluctuations in total VOC concentrations (see Table 3-4). Since the fourth performance monitoring event surface water sample results have remained non-detect at SW01 and decreased at SW02. SW02 total VOC concentrations decreased from 2.4 µg/L to non-detect from the fourth performance monitoring event to this first long-term monitoring event. SW03 showed a slight increase in total VOC concentration, non-detect to 0.81 µg/L, from the fourth performance monitoring event to this first long-term monitoring event. Only one primary COC was detected during this first long-term monitoring event. 1,2-DCB (0.46 µg/L) was detected at SW03. The only other detection at SW03 was naphthalene (0.36 µg/L). Historically, the only primary COC to exceed the screening criteria was chlorobenzene (9.0 µg/L), detected at SW02 during the second performance monitoring event.

Trend Analysis Summary

Overall, the April 2013 long-term monitoring analytical results indicate that the AOC 9 total VOC concentration is decreasing in comparison to the 2010 baseline sampling and performance monitoring results. The plume appears to have remained relatively stable in VOC concentration and decreased in size compared to the fourth round of performance results, although there are some slight increases in concentrations during this first long-term monitoring event downgradient of the source area. The chlorobenzene plume overall, has decreased in size and concentration (see Figure 3-2). Although the total DCB plume has slightly increased in

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VOC concentration within MW14 and MW15, the overall total VOC concentration and size of the plume has decreased. The TCE plume has remained relatively stable (see Figures 3-3 and 3-4). Based on the analytical results obtained from monitoring wells MW05 and MW06, the leading edge of the plume has remained stable. The analytical results from monitoring wells, MW01 and MW02 show that the plume has not expanded laterally. The analytical results from MW18 indicate that there are no contamination sources located upgradient of the excavated former source area. The contaminant concentrations within MW19 may be attributed to residual contamination immediately upgradient of the excavation area reaching the vicinity of the well. Additional historical data are tabulated and trend graphs are provided in Section 3.3. A comparison of April 2013 long-term analytical results to the baseline, performance monitoring, and historical analytical results indicates that the AOC 9 groundwater plume has generally continued to show a decrease in total VOC concentration and size. The plume has decreased in size from 14.6 acres at baseline sampling to 10.3 acres during this sampling round. Figures 3-2 through 3-4 show the changes in plume size based on the concentrations of the primary COCs.

3.1.4 MAROS Evaluation

The historical and long-term sampling results collected at AOC 9 were analyzed for statistical trend analyses using the Air Force Civil Engineering Center (AFCEC's) Monitoring and Remediation Optimization System Software (MAROS) Version 2.2 program to assess trends in contaminant concentrations along the observed plume and evaluate the effectiveness of the remedy implemented at the site (see Appendix H). Currently, long-term monitoring at the site consists of sampling for VOCs at nine wells along the center line and edges of the plume. These wells include: MW01, MW02, MW05, MW06, MW14, MW15, MW17, MW18, and MW19. Additional well data was added to the program for MW01, MW02, and MW05 as necessitated by the program to fully perform plume computations; MAROS requires input of data for a minimum of six well locations with at least four sampling events to perform several of the analyses. These three additional well data sets will also provide historical reference of the plume concentrations and further delineate the plume in MAROS. Figures 3-5 through 3-12 are trend graphs for wells MW01, MW02, MW06, MW14, MW15, MW17, MW18, and MW19. A trend graph was not completed for MW05, as total VOC concentration has historically always been non-detect.

Model input required by MAROS included analytical results for each sampling event as observed at individual well locations, coordinates of each well, estimates of current plume geometry (e.g., length and width), aquifer characteristics (e.g., seepage velocity, porosity, and thickness) and the type of treatment implemented at the source location.

Several trend analyses were performed in the model for the primary COCs: 1,2-DCB, 1,4-DCB, chlorobenzene, and TCE. Output results from the MAROS evaluations are attached (see Appendix H), showing the Mann-Kendall Statistics, Linear Regression, Statistical Trend, Spatial Moment Analysis and Plume Analysis

3 AOC 9 Long-Term Monitoring Findings

Summaries. Mann-Kendall will be the analysis used for evaluating the treatment effectiveness for AOC 9; this is the most common statistical approach in the MAROS program used for groundwater assessment applications. Mann-Kendall is the most common statistical method for groundwater data evaluation as it is a nonparametric analysis that accounts for the assumptions made for the plume geometry and aquifer characteristics and does not assume a statistical distribution (i.e., normal distribution) of the groundwater data. Most groundwater data is not distributed normally, due to the problem of left censoring (no values recorded below the detection limit) and the occasional very high concentration, orders of magnitude above the detection limit.

The statistical analysis performed using the Mann-Kendall model indicates that concentrations of chlorobenzene and 1,4-DCB are decreasing within the wells (MW14 and MW15) downgradient of the former source area. 1,2-DCB also shows a decreasing trend in MW14 (see Appendix H). The model indicates that TCE and 1,2-DCB remain stable in MW15 and chlorobenzene and 1,4-DCB remain stable in MW17. The model indicates that TCE is decreasing within MW01, MW02, and MW14. Overall, the Mann-Kendall model does indicate a downward trend within the contaminant plume immediately downgradient of the groundwater remediation area, and does not indicate any increasing trends for the primary COCs at any well. Additionally, this is supported by the spatial moment analysis. The zeroth moment or the total mass of the plume indicates that all contaminants are decreasing or stable. The first moment indicates that the center of the mass is moving downward, which suggests that clean water is flushing COCs downgradient. Lastly, the second moment suggests that the plume is not spreading significantly in the x- or y-directions (see Appendix H). Long-term monitoring of the site, in accordance with the work plan, is necessary to fully examine the effectiveness of the AOC 9 remedial action and to further evaluate potential migration of contaminants.

3.1.5 April 2013 Summary

The April 2013 long-term sampling conducted at AOC 9 consists of groundwater and surface water sampling and analysis to evaluate the VOC concentrations in the groundwater plume and Six Mile Creek following the remedial excavation activities.

Eleven groundwater and three surface water samples were collected from the nine monitoring wells and Six Mile Creek, including two duplicate samples, and analyzed for VOCs (EPA Method SW8260B) by Katahdin Analytical Services. Figure 2-1 shows the sampling locations and Figure 3-1 shows the total VOC contaminant concentrations in groundwater and surface water based on the analytical data obtained during this monitoring event.

A comparison of April 2013 long-term analytical results to the baseline and historical analytical results indicates that the AOC 9 VOC concentrations have generally continued to decrease (see Table 3-3). Based on the analytical results obtained from monitoring wells MW05 and MW06, the plume appears to have re-

3 AOC 9 Long-Term Monitoring Findings

mained stable along the leading edge. Monitoring wells MW01 and MW02 indicated that the plume has not expanded laterally. MW19 results indicate the plume has decreased in concentration within the vicinity of the source area for total DCBs, while chlorobenzene and TCE have shown a slight increase. Although MW14 and MW15 showed increased in total VOC concentration, the results obtained from MW17 indicate that total VOC concentrations within the plume have begun to decrease in VOC concentrations further downgradient from the source area.

Surface water sample results obtained from sample locations SW01 and SW02 were non-detect for all VOCs. Surface water sample SW03 has shown a slight increase in VOC concentration during this long-term sampling due to the detections of 1,2-DCB and naphthalene at concentrations below screening levels. However, all other primary COCs are non-detect within surface water samples during this April 2013 long-term monitoring event.

Wells MW06 and MW17 have shown contaminant concentrations that have decreased since the fourth performance monitoring event. MW01, MW02, and MW18 have shown contaminant concentrations that have decreased since baseline sampling, while MW05 has remained non-detect. MW14 and MW15 have shown contaminant concentrations that have increased slightly since the September 2012 monitoring event, but remain significantly decreased from the baseline levels.

The next round of sampling, the second round of long-term monitoring, will take place in the spring of 2014, to monitor the long-term effectiveness of the remedial efforts. No changes to the approved long-term monitoring plan are proposed at this time.

3.1.6 PermeOx Pre-Design Sampling Summary

The PermeOx injection was chosen for two reasons: it creates an oxygen-rich environment, which allows for chlorobenzene reduction through aerobic microbe degradation; and it is more persistent, allowing it to treat the site over a one-year period. Pre-design sampling was completed in May 2013 for use in designing the injection mixture. Groundwater samples were collected from MW-14 and MW-19 and a soil sample was collected near MW-14. Results of this sampling are presented in Table 3-5.

Based on these results it was determined that PermeOx injected within the 100-parts per billion total VOC contour immediately downgradient of the source area would be the preferred treatment method. The injections will be completed using 53 temporary injection points, installed to a depth of approximately 15 to 25 feet within the treatment area. Approximately 189 pounds of PermeOx will be mixed with 113 gallons of water to create a 20% (by weight) slurry, which will be injected at each location using a grout pump located on a geoprobe rig. The complete details of the PermeOx injection are provided as a separate document, *Remedial Action Work Plan Addendum Area of Concern 9 Injection Former Griffiss Air*



3 AOC 9 Long-Term Monitoring Findings

Force Base Rome, New York (Parsons 2013). The injection will target the area immediately downgradient of the former source area and is intended to ensure that the downward trend in groundwater contaminants continues.

**Table 3-1 AOC 9 April 2013 Long-Term Monitoring
Summary of Positive Results for Groundwater Samples
Former Griffiss Air Force Base, Rome, NY**

Analyte	Sample ID: Date: Screening Criteria ⁽¹⁾	G009- MW01LTM040913 04/09/13	G009- MW02LTM040913 04/09/13	AOC9- MW05LTM040813 04/08/13	AOC9- MW06LTM040913 04/09/13	AOC9- MW14LTM040913 04/09/13	AOC9- MW15LTM040913 04/09/13	AOC9- MW17LTM040913 04/09/13
		VOCs by Method SW8260B						
1,2,4-TRIMETHYLBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	3.6	1.0 U	1.0 U
1,2-DICHLOROBENZENE	3	0.42 J	1.0 U	1.0 U	1.0 U	27	73	60
1,3-DICHLOROBENZENE	3	1.0 U	1.0 U	1.0 U	1.0 U	1.4	2.3	1.1
1,4-DICHLOROBENZENE	3	1.0 U	1.0 U	1.0 U	1.0 U	22	23	12
BENZENE	1	1.0 U	1.0 U	1.0 U	1.0 U	0.92 J	0.85 J	0.94 J
CHLOROBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	240 J	360 J	180
CIS-1,2-DICHLOROETHYLENE	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.3 J	0.59 J	3.0 J
CYCLOHEXANE	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.2	1.0 U	1.0 U
ETHYLBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.0 U	1.0 U
ISOPROPYLBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	3.1	1.7	1.0 U
METHYLCYCLOHEXANE	NA	1.0 U	1.0 U	1.0 U	1.0 U	3.7	0.36 J	1.0 U
M,P-XYLENE	NA	2.0 U	2.0 U	2.0 U	2.0 U	1.9 J	2.0 U	1.0 U
N-BUTYLBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.1	1.0 U
N-PROPYLBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	2.4	1.0 U	1.0 U
O-XYLENE	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
SEC-BUTYLBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.8	1.0 U
T-BUTYLBENZENE	5	1.0 U	1.0 U	1.0 U	1.0 U	0.66 J	0.49 J	1.0 U
TETRACHLOROETHYLENE	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8
TRICHLOROETHYLENE	5	0.46 J	0.36 J	1.0 U	1.2	1.0	0.70 J	15
TOTAL VOCs	NA	0.88 J	0.36 J	ND	1.2	320 J	470 J	270 J

Key:

= Guidance value .

J = Estimated value.

U = Not detected .

UJ = Not detected/Estimated Value.

µg/L = Micrograms per liter.

mg/L = Milligrams per liter.

-- = Analyte not analyzed for.

VOCs = Volatile organic compounds.

/D Designates field duplicate sample.

Notes:

1. Shaded cells exceed the screening value.

2. Bold values denote positive hits.

Note:

1 New York State Department of Environmental Conservation,
Technical and Operational Guidance Series Memorandum #1.1.1:
Ambient Water Quality Standards and Guidance Values and
Groundwater Effluent Limitations, 1998 , Class GA Groundwater
Standards and Guidance Values.

**Table 3-1 AOC 9 April 2013 Long-Term Monitoring
Summary of Positive Results for Groundwater Samples
Former Griffiss Air Force Base, Rome, NY**

Analyte	Sample ID: Date: Screening Criteria ⁽¹⁾	AOC9- MW18LTM041013 04/10/13	AOC9- MW19LTM041013 04/10/13	AOC9- MW14/DLTM040913 04/09/13	AOC9- MW15/DLTM040913 04/09/13
VOCs by Method SW8260B					
1,2,4-TRIMETHYLBENZENE	5	1.0 U	1.0 U	4.0	1.0 U
1,2-DICHLOROBENZENE	3	1.0 U	2.1	26	73
1,3-DICHLOROBENZENE	3	1.0 U	1.0 U	1.5	2.4
1,4-DICHLOROBENZENE	3	1.0 U	3.0	22	24
BENZENE	1	1.0 U	2.0	0.99 J	0.94 J
CHLOROBENZENE	5	1.0 U	58	250 J	380 J
CIS-1,2-DICHLOROETHYLENE	5	1.0 UJ	3.2 J	1.4 J	0.63 J
CYCLOHEXANE	NA	1.0 U	1.0 U	2.4	1.0 U
ETHYLBENZENE	5	1.0 U	1.0 U	1.5	1.0 U
ISOPROPYLBENZENE	5	1.0 U	1.0 U	3.3	2.0
METHYLCYCLOHEXANE	NA	1.0 U	1.0 U	4.5	1.0 U
M,P-XYLENE	NA	1.0 U	1.0 U	2.2	1.0 U
N-BUTYLBENZENE	5	1.0 U	1.0 U	1.4	1.2
N-PROPYLBENZENE	5	1.0 U	1.0 U	2.6	1.0 U
O-XYLENE	5	1.0 U	1.0 U	0.27 J	1.0 U
SEC-BUTYLBENZENE	5	1.0 U	1.0 U	1.9	2.1
T-BUTYLBENZENE	5	1.0 U	1.0 U	0.73 J	0.58 J
TETRACHLOROETHYLENE	5	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	5	1.0 U	0.55 J	1.0	0.78 J
TOTAL VOCs	NA	ND	69 J	330 J	490 J

Key:

= Guidance value .

J = Estimated value.

U = Not detected .

UJ = Not detected/Estimated Value.

µg/L = Micrograms per liter.

mg/L = Milligrams per liter.

-- = Analyte not analyzed for.

VOCs = Volatile organic compounds.

/D Designates field duplicate sample.

Notes:

1. Shaded cells exc

2. Bold values denc

Note:

1 New York State Department of Environmental Conservation,
Technical and Operational Guidance Series Memorandum #1.1.1:
Ambient Water Quality Standards and Guidance Values and
Groundwater Effluent Limitations, 1998 , Class GA Groundwater
Standards and Guidance Values.

**Table 3-2 AOC 9 April 2013 Long-Term Monitoring
Summary of Positive Results for Surface Water Samples
Former Griffiss Air Force Base Rome, NY**

Analyte	Sample ID: Date:	AOC9- SW01LTM040813 04/08/13	AOC9- SW02LTM040813 04/08/13	AOC9- SW03LTM040813 04/08/13
	Screening Criteria ⁽¹⁾			
VOCs by Method SW8260B (µg/L)				
1,2-DICHLOROBENZENE	5	1.0 U	1.0 U	0.45 J
NAPHTHALENE	NA	1.0 U	1.0 U	0.36 J
TOTAL VOCs	NA	ND	ND	0.81 J

Key:

(g) = Guidance value (no applicable standard).

J = Estimated value.

U = Not detected (lab reporting limit shown).

UJ = Not detected/Estimated Value.

µg/L = Micrograms per liter.

mg/L = Milligrams per liter.

-- = Analyte not analyzed for.

NA = Not applicable.

VOCs = Volatile organic compounds.

/D Designates field duplicate sample.

Notes:

1. Shaded cells exceed the screening value.

2. Bold values denote positive hits.

Note:

1 New York State Department of Environmental Conservation,
Class C Freshwater Fish Propagation Standards and Guidance Values.

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
							E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4						
G009-MW01	5	1,1-Dichloroethene	U	U	U	-	U	-	-	-	-	UJ
	3	1,2-Dichlorobenzene	U	0.36	0.6	-	0.80 J	-	-	-	-	.42 J
	0.6	1,2-Dichloroethane	U	U	U	-	U	-	-	-	-	U
	5	1,2,4-Trimethylbenzene	NA	U	U	-	U	-	-	-	-	U
	5	1,3,5-Trimethylbenzene	NA	U	U	-	U	-	-	-	-	U
	3	1,3-Dichlorobenzene	NA	U	U	-	U	-	-	-	-	U
	3	1,4-Dichlorobenzene	U	U	U	-	U	-	-	-	-	U
	5	4-Chlorotoluene	NA	U	U	-	NA	-	-	-	-	U
	1	Benzene	U	U	U	-	U	-	-	-	-	U
	5	Chlorobenzene	U	U	U	-	U	-	-	-	-	U
	5	cis-1,2-Dichloroethylene	U	U	0.123	-	U	-	-	-	-	UJ
	NA	Cyclohexane	NA	NA	NA	-	U	-	-	-	-	U
	5	Ethylbenzene	U	U	U	-	U	-	-	-	-	U
	5	Isopropylbenzene (Cumene)	NA	U	U	-	U	-	-	-	-	U
	NA	Methylcyclohexane	NA	NA	NA	-	U	-	-	-	-	U
	5	Methylene Chloride	U	U	U	-	U	-	-	-	-	U
	NA	m-p-Xylene	NA	U	U	-	U	-	-	-	-	U
	10	Naphthalene	NA	U	U	-	U	-	-	-	-	U
	5	n-Butylbenzene	NA	U	U	-	U	-	-	-	-	U
	5	n-Propylbenzene	NA	U	U	-	U	-	-	-	-	U
	5	o-Xylene (1,2-Dimethylbenzene)	NA	U	U	-	U	-	-	-	-	U
	5	p-Isopropyltoluene	NA	NA	NA	-	U	-	-	-	-	U
	5	sec-Butylbenzene	NA	U	U	-	U	-	-	-	-	U
	5	Styrene	U	U	U	-	U	-	-	-	-	U
	5	t-Butylbenzene	NA	U	U	-	U	-	-	-	-	U
	5	Tetrachloroethylene (PCE)	U	U	U	-	U	-	-	-	-	U
	5	Toluene	U	U	U	-	U	-	-	-	-	U
	5	Trans-1,2-Dichloroethene	NA	U	U	-	U	-	-	-	-	U
	5	Trichloroethylene (TCE)	U	0.87	0.88	-	0.60 J	-	-	-	-	0.46 J
	2	Vinyl Chloride	U	U	U	-	U	-	-	-	-	U
	NA	Total VOCs	0	1.2	1.6	-	1.4	-	-	-	-	0.88

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
G009-MW02	5	1,1-Dichloroethene	U	U	U	U	U	-	-	-	-	UJ
	3	1,2-Dichlorobenzene	U	U	U	U	U	-	-	-	-	U
	0.6	1,2-Dichloroethane	U	U	U	U	U	-	-	-	-	U
	5	1,2,4-Trimethylbenzene	NA	U	U	U	U	-	-	-	-	U
	5	1,3,5-Trimethylbenzene	NA	U	U	U	U	-	-	-	-	U
	3	1,3-Dichlorobenzene	NA	U	U	U	U	-	-	-	-	U
	3	1,4-Dichlorobenzene	U	U	U	U	U	-	-	-	-	U
	5	4-Chlorotoluene	NA	U	U	U	NA	-	-	-	-	U
	1	Benzene	U	U	U	U	U	-	-	-	-	U
	5	Chlorobenzene	U	U	U	U	U	-	-	-	-	U
	5	cis-1,2-Dichloroethylene	U	U	U	U	U	-	-	-	-	UJ
	NA	Cyclohexane	NA	NA	NA	NA	U	-	-	-	-	U
	5	Ethylbenzene	U	U	U	U	U	-	-	-	-	U
	5	Isopropylbenzene (Cumene)	NA	U	U	U	U	-	-	-	-	U
	NA	Methylcyclohexane	NA	NA	NA	NA	U	-	-	-	-	U
	5	Methylene Chloride	U	U	U	U	U	-	-	-	-	U
	NA	m-p-Xylene	NA	U	U	U	U	-	-	-	-	U
	10	Naphthalene	NA	U	U	U	U	-	-	-	-	U
	5	n-Butylbenzene	NA	U	U	U	U	-	-	-	-	U
	5	n-Propylbenzene	NA	U	U	U	U	-	-	-	-	U
	5	o-Xylene (1,2-Dimethylbenzene)	NA	U	U	U	U	-	-	-	-	U
	5	p-Isopropyltoluene	NA	NA	NA	U	U	-	-	-	-	U
	5	sec-Butylbenzene	NA	U	U	U	U	-	-	-	-	U
	5	Styrene	U	U	U	U	U	-	-	-	-	U
	5	t-Butylbenzene	NA	U	U	U	U	-	-	-	-	U
	5	Tetrachloroethylene (PCE)	U	U	U	U	U	-	-	-	-	U
	5	Toluene	U	U	U	U	U	-	-	-	-	U
	5	Trans-1,2-Dichloroethene	NA	U	U	U	U	-	-	-	-	U
	5	Trichloroethylene (TCE)	U	0.89	1.8	0.61 J	0.70 J	-	-	-	-	0.36 J
	2	Vinyl Chloride	U	U	U	U	U	-	-	-	-	U
	NA	Total VOCs	0	0.89	1.8	0.61	0.70	-	-	-	-	0.36

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
							E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4						
AOC9-MW05	5	1,1-Dichloroethene	-	U	U	U	U	-	-	-	-	UJ
	3	1,2-Dichlorobenzene	-	U	U	U	U	-	-	-	-	U
	0.6	1,2-Dichloroethane	-	U	U	U	U	-	-	-	-	U
	5	1,2,4-Trimethylbenzene	-	U	U	U	U	-	-	-	-	U
	5	1,3,5-Trimethylbenzene	-	U	U	U	U	-	-	-	-	U
	3	1,3-Dichlorobenzene	-	U	U	U	U	-	-	-	-	U
	3	1,4-Dichlorobenzene	-	U	U	U	U	-	-	-	-	U
	5	4-Chlorotoluene	-	U	U	U	NA	-	-	-	-	U
	1	Benzene	-	U	U	U	U	-	-	-	-	U
	5	Chlorobenzene	-	U	U	U	U	-	-	-	-	U
	5	cis-1,2-Dichloroethylene	-	U	U	U	U	-	-	-	-	UJ
	NA	Cyclohexane	-	NA	NA	NA	U	-	-	-	-	U
	5	Ethylbenzene	-	U	U	U	U	-	-	-	-	U
	5	Isopropylbenzene (Cumene)	-	U	U	U	U	-	-	-	-	U
	NA	Methylcyclohexane	-	NA	NA	NA	U	-	-	-	-	U
	5	Methylene Chloride	-	U	U	U	U	-	-	-	-	U
	NA	m-p-Xylene	-	U	U	U	U	-	-	-	-	U
	10	Naphthalene	-	U	U	U	U	-	-	-	-	U
	5	n-Butylbenzene	-	U	U	U	U	-	-	-	-	U
	5	n-Propylbenzene	-	U	U	U	U	-	-	-	-	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	U	U	U	U	-	-	-	-	U
	5	p-Isopropyltoluene	-	NA	NA	U	U	-	-	-	-	U
	5	sec-Butylbenzene	-	U	U	U	U	-	-	-	-	U
	5	Styrene	-	U	U	U	U	-	-	-	-	U
	5	t-Butylbenzene	-	U	U	U	U	-	-	-	-	U
	5	Tetrachloroethylene (PCE)	-	U	U	U	U	-	-	-	-	U
	5	Toluene	-	U	U	U	U	-	-	-	-	U
	5	Trans-1,2-Dichloroethene	-	U	U	U	U	-	-	-	-	U
	5	Trichloroethylene (TCE)	-	U	U	U	U	-	-	-	-	U
	2	Vinyl Chloride	-	U	U	U	U	-	-	-	-	U
	NA	Total VOCs	-	0	0	0	0	0	-	-	-	-

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
AOC9-MW06	5	1,1-Dichloroethene	-	U	U	-	U	U	U	U	U	UJ
	3	1,2-Dichlorobenzene	-	U	U	-	U	U	U	U	U	U
	0.6	1,2-Dichloroethane	-	U	U	-	U	U	U	U	U	U
	5	1,2,4-Trimethylbenzene	-	U	U	-	U	U	U	U	U	U
	5	1,3,5-Trimethylbenzene	-	U	U	-	U	U	U	U	U	U
	3	1,3-Dichlorobenzene	-	U	U	-	U	U	U	U	U	U
	3	1,4-Dichlorobenzene	-	U	U	-	U	U	U	U	U	U
	5	4-Chlorotoluene	-	U	U	-	NA	U	U	U	U	U
	1	Benzene	-	U	U	-	U	U	U	U	U	U
	5	Chlorobenzene	-	U	U	-	U	UJ	0.90 J	U	U	U
	5	cis-1,2-Dichloroethylene	-	U	U	-	U	U	U	U	U	UJ
	NA	Cyclohexane	-	NA	NA	-	U	U	U	U	U	U
	5	Ethylbenzene	-	U	U	-	U	U	U	U	U	U
	5	Isopropylbenzene (Cumene)	-	U	U	-	U	U	U	U	U	U
	NA	Methylcyclohexane	-	NA	NA	-	U	U	U	U	U	U
	5	Methylene Chloride	-	U	U	-	U	U	U	U	U	U
	NA	m-p-Xylene	-	U	U	-	U	U	U	U	U	U
	10	Naphthalene	-	U	U	-	U	U	3.0	U	U	U
	5	n-Butylbenzene	-	U	U	-	U	U	U	U	U	U
	5	n-Propylbenzene	-	U	U	-	U	U	2.0	U	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	U	U	-	U	U	U	U	U	U
	5	p-Isopropyltoluene	-	NA	NA	-	U	U	U	U	U	U
	5	sec-Butylbenzene	-	U	U	-	U	U	U	U	U	U
	5	Styrene	-	U	U	-	U	U	U	U	U	U
	5	t-Butylbenzene	-	U	U	-	U	U	U	U	U	U
	5	Tetrachloroethylene (PCE)	-	U	U	-	U	U	U	U	U	U
	5	Toluene	-	U	U	-	U	U	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	U	U	-	U	U	U	U	U	U
	5	Trichloroethylene (TCE)	-	0.85	1.8	-	1.0	1.0	1.0	U	1.4	1.2
	2	Vinyl Chloride	-	U	U	-	U	U	U	U	U	U
	NA	Total VOCs	-	0.85	1.8	-	1.0	1.0	6.9	0	1.4	1.2

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
AOC9-MW14	5	1,1-Dichloroethene	-	-	-	U	0.70 J	U	U	U	U	UJ
	3	1,2-Dichlorobenzene	-	-	-	170	130	76	40	22 J	24	26
	0.6	1,2-Dichloroethane	-	-	-	U	U	U	U	U	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	220	180	15	1.0	U	U	4.0
	5	1,3,5-Trimethylbenzene	-	-	-	79	64	U	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	7.6	6.0	4.0	2.0	1.1	1.3	1.5
	3	1,4-Dichlorobenzene	-	-	-	110	87	53	34	20	21	22
	5	4-Chlorotoluene	-	-	-	0.33 J	NA	U	U	U	U	U
	1	Benzene	-	-	-	3.5	19	1.0	1.0	0.43 J	0.94 J	0.99 J
	5	Chlorobenzene	-	-	-	1700	1400	950 J	350	200	190	250 J
	5	cis-1,2-Dichloroethylene	-	-	-	2.7	23	2.0	2.0	1.6	2.4	1.4 J
	NA	Cyclohexane	-	-	-	NA	22	12	1.0	U	0.55 J	2.4
	5	Ethylbenzene	-	-	-	21	10	7.0	1.0	0.28 J	0.37 J	1.5
	5	Isopropylbenzene (Cumene)	-	-	-	17	14	11	3.0	0.58 J	0.93 J	3.3
	NA	Methylcyclohexane	-	-	-	NA	46 J	17	2.0	0.55 J	1.3	4.5
	5	Methylene Chloride	-	-	-	U	NA	U	U	U	U	U
	NA	m-p-Xylene	-	-	-	68	50	11	0.70 J	U	U	U
	10	Naphthalene	-	-	-	51	27	4.0	U	U	U	U
	5	n-Butylbenzene	-	-	-	4.3	4.0	2.0	2.0 J	0.33 J	0.46 J	1.4
	5	n-Propylbenzene	-	-	-	15	14	8.0	3.0	0.70 J	1.0	2.6
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	5.9	5.0	0.30 J	U	U	U	0.27 J
	5	p-Isopropyltoluene	-	-	-	5.5	5.0	U	U	U	U	U
	5	sec-Butylbenzene	-	-	-	8.3	7.0	4.0	3.0	0.75 J	1.0	1.9
	5	Styrene	-	-	-	U	U	U	U	U	U	U
	5	t-Butylbenzene	-	-	-	3.2	2.0	2.0	1.0	U	0.32 J	0.73 J
	5	Tetrachloroethylene (PCE)	-	-	-	U	UJ	U	U	U	U	U
	5	Toluene	-	-	-	0.75 J	3.0	U	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	2.0	U	U	U	U	UJ
	5	Trichloroethylene (TCE)	-	-	-	4.8	28	2.0	2.0	U	1.2	1.0
	2	Vinyl Chloride	-	-	-	1.6	17	1.0 J	1.0 J	U	0.83 J	U
	NA	Total VOCs	-	-	-	2500	2100	1200	450	250	250	330

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
AOC9-MW15	5	1,1-Dichloroethene	-	-	-	U	0.40 J	U	U	U	U	UJ
	3	1,2-Dichlorobenzene	-	-	-	60 J	55	74	26	19	31	73
	0.6	1,2-Dichloroethane	-	-	-	U	U	U	U	U	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	8.0 J	35	0.90 J	U	U	U	U
	5	1,3,5-Trimethylbenzene	-	-	-	10 J	18	U	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	8.0 J	6.0	5.0	2.0	1.3	1.8	2.4
	3	1,4-Dichlorobenzene	-	-	-	110	64	58	28	17	19	24
	5	4-Chlorotoluene	-	-	-	U	NA	U	U	U	U	U
	1	Benzene	-	-	-	12 J	26	1.0	2.0	1.4	2.8	0.94 J
	5	Chlorobenzene	-	-	-	1900	1300	990 J	390	320	290	380 J
	5	cis-1,2-Dichloroethylene	-	-	-	U	10	2.0	0.40 J	0.80	0.65 J	0.63 J
	NA	Cyclohexane	-	-	-	NA	50	2.0	0.60 J	U	0.67 J	U
	5	Ethylbenzene	-	-	-	U	12	3.0	0.70 J	U	UJ	U
	5	Isopropylbenzene (Cumene)	-	-	-	12 J	22	7.0	2.0	1.4	2.0 J	2.0
	NA	Methylcyclohexane	-	-	-	NA	40 J	6.0	0.60 J	U	U	U
	5	Methylene Chloride	-	-	-	87	U	U	U	U	U	U
	NA	m-p-Xylene	-	-	-	U	11	0.70 J	U	U	U	U
	10	Naphthalene	-	-	-	U	U	0.40 J	U	U	U	U
	5	n-Butylbenzene	-	-	-	U	3.0	2.0	0.50 J	U	0.23 J	1.2
	5	n-Propylbenzene	-	-	-	U	8.0	5.0	U	U	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	U	2.0	U	U	U	U	U
	5	p-isopropyltoluene	-	-	-	U	0.70 J	U	U	U	U	U
	5	sec-Butylbenzene	-	-	-	U	7.0	6.0	2.0	1.1	1.5	2.1
	5	Styrene	-	-	-	U	2.0	U	U	U	U	U
	5	t-Butylbenzene	-	-	-	U	3.0	1.0	1.0	0.42 J	0.53 J	0.58 J
	5	Tetrachloroethylene (PCE)	-	-	-	U	UJ	U	U	U	U	U
	5	Toluene	-	-	-	U	2.0	0.30 J	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	0.30 J	U	U	U	U	U
	5	Trichloroethylene (TCE)	-	-	-	U	2.0	2.0	0.40 J	U	0.34 J	0.78 J
	2	Vinyl Chloride	-	-	-	U	14	0.50 J	0.70 J	1.6 J	2.5	U
	NA	Total VOCs	-	-	-	2200	1700	1100	460	360	350	490

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
AOC9-MW17	5	1,1-Dichloroethene	-	-	-	U	U	U	U	U	U	U
	3	1,2-Dichlorobenzene	-	-	-	66	50	44	69	67	91	60
	0.6	1,2-Dichloroethane	-	-	-	0.68	0.40 J	U	0.40 J	U	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	U	U	U	U	U	U	U
	5	1,3,5-Trimethylbenzene	-	-	-	U	U	U	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	1.5	3.0	2.0	2.0	0.91 J	1.7	1.1
	3	1,4-Dichlorobenzene	-	-	-	17	38	24	26	15	22	12
	5	4-Chlorotoluene	-	-	-	U	NA	U	U	U	U	U
	1	Benzene	-	-	-	2.6	4.0	5.0	6.0 J	1.6	1.6	0.94 J
	5	Chlorobenzene	-	-	-	250	760	450 J	540	270	300	180
	5	cis-1,2-Dichloroethylene	-	-	-	12	5.0	5.0	4.0	3.9	5.2	3.0 J
	NA	Cyclohexane	-	-	-	NA	2.0	3.0	0.70 J	U	U	U
	5	Ethylbenzene	-	-	-	U	0.80 J	0.40 J	1.0 J	U	U	U
	5	Isopropylbenzene (Cumene)	-	-	-	0.25 J	2.0	2.0 J	2.0 J	U	U	U
	NA	Methylcyclohexane	-	-	-	NA	0.60 J	1.0	U	U	U	U
	5	Methylene Chloride	-	-	-	U	U	U	U	U	U	U
	NA	m-p-Xylene	-	-	-	U	U	U	U	U	U	U
	10	Naphthalene	-	-	-	U	U	U	3.0	U	U	U
	5	n-Butylbenzene	-	-	-	U	U	U	U	U	U	U
	5	n-Propylbenzene	-	-	-	U	U	U	2.0	U	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	U	U	U	U	U	U	U
	5	p-Isopropyltoluene	-	-	-	U	U	U	U	U	U	U
	5	sec-Butylbenzene	-	-	-	0.33 J	1.0 J	0.80 J	0.60 J	U	U	U
	5	Styrene	-	-	-	U	U	U	U	U	U	U
	5	t-Butylbenzene	-	-	-	0.26 J	0.60 J	0.50 J	U	U	U	U
	5	Tetrachloroethylene (PCE)	-	-	-	3.0	2.0 J	0.90 J	2.0	4	2.2	1.8
	5	Toluene	-	-	-	0.39 J	U	U	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	0.90 J	1.0	U	U	0.62 J	U
	5	Trichloroethylene (TCE)	-	-	-	19	14	12	14	20	19	15
	2	Vinyl Chloride	-	-	-	0.92 J	4.0	4.0	3.0	1.2 J	2.5 J	U
	NA	Total VOCs	-	-	-	370	890	560	680	380	450	270

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
							E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4						
AOC9-MW18	5	1,1-Dichloroethene	-	-	-	-	U	-	-	-	-	UJ
	3	1,2-Dichlorobenzene	-	-	-	-	0.20 J	-	-	-	-	U
	0.6	1,2-Dichloroethane	-	-	-	-	U	-	-	-	-	U
	5	1,2,4-Trimethylbenzene	-	-	-	-	U	-	-	-	-	U
	5	1,3,5-Trimethylbenzene	-	-	-	-	U	-	-	-	-	U
	3	1,3-Dichlorobenzene	-	-	-	-	U	-	-	-	-	U
	3	1,4-Dichlorobenzene	-	-	-	-	U	-	-	-	-	U
	5	4-Chlorotoluene	-	-	-	-	NA	-	-	-	-	U
	1	Benzene	-	-	-	-	U	-	-	-	-	U
	5	Chlorobenzene	-	-	-	-	3.0	-	-	-	-	U
	5	cis-1,2-Dichloroethylene	-	-	-	-	U	-	-	-	-	UJ
	NA	Cyclohexane	-	-	-	-	U	-	-	-	-	U
	5	Ethylbenzene	-	-	-	-	U	-	-	-	-	U
	5	Isopropylbenzene (Cumene)	-	-	-	-	U	-	-	-	-	U
	NA	Methylcyclohexane	-	-	-	-	UJ	-	-	-	-	U
	5	Methylene Chloride	-	-	-	-	U	-	-	-	-	U
	NA	m-p-Xylene	-	-	-	-	U	-	-	-	-	U
	10	Naphthalene	-	-	-	-	U	-	-	-	-	U
	5	n-Butylbenzene	-	-	-	-	U	-	-	-	-	U
	5	n-Propylbenzene	-	-	-	-	U	-	-	-	-	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	-	U	-	-	-	-	U
	5	p-Isopropyltoluene	-	-	-	-	U	-	-	-	-	U
	5	sec-Butylbenzene	-	-	-	-	U	-	-	-	-	U
	5	Styrene	-	-	-	-	U	-	-	-	-	U
	5	t-Butylbenzene	-	-	-	-	U	-	-	-	-	U
	5	Tetrachloroethylene (PCE)	-	-	-	-	UJ	-	-	-	-	U
	5	Toluene	-	-	-	-	U	-	-	-	-	U
	5	Trans-1,2-Dichloroethene	-	-	-	-	U	-	-	-	-	UJ
	5	Trichloroethylene (TCE)	-	-	-	-	U	-	-	-	-	U
	2	Vinyl Chloride	-	-	-	-	U	-	-	-	-	U
	NA	Total VOCs	-	-	-	-	3.2	-	-	-	-	-

Table 3-3 AOC 9 Historic Groundwater Sample Results

			Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
Well Number	Screening Criteria 1	Parameter	Ref 1	Ref 2	Ref 3	Ref 4	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
AOC9-MW19 ²	5	1,1-Dichloroethene	-	-	-	-	-	U	U	U	U	UJ
	3	1,2-Dichlorobenzene	-	-	-	4930	-	6.0	6.0	3.8	5.4	2.1
	0.6	1,2-Dichloroethane	-	-	-	-	-	U	U	U	U	U
	5	1,2,4-Trimethylbenzene	-	-	-	170	-	U	U	U	U	U
	5	1,3,5-Trimethylbenzene	-	-	-	90	-	U	U	U	U	U
	3	1,3-Dichlorobenzene	-	-	-	100	-	U	U	U	U	U
	3	1,4-Dichlorobenzene	-	-	-	1380	-	3.0	4.0	4.5 J	4.4	3.0
	5	4-Chlorotoluene	-	-	-	U	-	U	U	U	U	U
	1	Benzene	-	-	-	90	-	U	0.40 J	0.90 J	U	2.0
	5	Chlorobenzene	-	-	-	14400	-	18 J	14	33	31	58
	5	cis-1,2-Dichloroethylene	-	-	-	U	-	3.0	15	12	1.4	3.2 J
	NA	Cyclohexane	-	-	-	-	-	U	U	U	U	U
	5	Ethylbenzene	-	-	-	U	-	U	U	U	UJ	U
	5	Isopropylbenzene (Cumene)	-	-	-	U	-	U	U	U	UJ	U
	NA	Methylcyclohexane	-	-	-	-	-	U	U	U	U	U
	5	Methylene Chloride	-	-	-	U	-	U	U	U	U	U
	NA	m-p-Xylene	-	-	-	85	-	U	U	U	U	U
	10	Naphthalene	-	-	-	230	-	U	U	U	U	U
	5	n-Butylbenzene	-	-	-	U	-	U	U	U	U	U
	5	n-Propylbenzene	-	-	-	U	-	U	U	U	U	U
	5	o-Xylene (1,2-Dimethylbenzene)	-	-	-	75	-	U	U	U	U	U
	5	p-Isopropyltoluene	-	-	-	U	-	U	U	U	U	U
	5	sec-Butylbenzene	-	-	-	U	-	U	U	U	U	U
	5	Styrene	-	-	-	-	-	U	U	U	U	U
	5	t-Butylbenzene	-	-	-	U	-	U	U	U	U	U
	5	Tetrachloroethylene (PCE)	-	-	-	U	-	U	U	U	U	U
	5	Toluene	-	-	-	60	-	U	U	U	U	U
	5	Trans-1,2-Dichloroethene	-	-	-	U	-	U	U	U	U	UJ
	5	Trichloroethylene (TCE)	-	-	-	U	-	0.50 J	0.50 J	U	0.30 J	0.55 J
	2	Vinyl Chloride	-	-	-	U	-	0.60 J	2.0	2.9	U	U
	NA	Total VOCs	-	-	-	21610	-	31	42	57	43	69

Table 3-3 AOC 9 Historic Groundwater Sample Results

Well Number	Screening Criteria ¹	Parameter	Analytical Results by Sample Date(s) (µg/L)									
			12/18/97 to 12/19/97	5/8/00 to 5/25/00	9/7/04 to 9/9/04	10/23/06 to 11/13/06	7/27/10 to 7/29/10	5/17/11 to 5/18/11	10/24/11 to 10/25/11	4/16/12 to 4/17/12	9/25/12 to 9/26/12	4/8/13 to 4/10/13
							E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
			Ref 1	Ref 2	Ref 3	Ref 4						

Key:
J = Estimated concentration.
U = Analyte not detected.
mg/L = Micrograms per liter.
- = Well was not Sampled
NA = Not Applicable.

0.411 J	Bolded values denote positive hits (detections).
14.9	Shaded values denote hits exceeding the NYSDEC standard.

Note:
¹ New York State Department of Environmental Conservation, Class GA Groundwater Standards and Guidance Values.
² Data presented under Reference 4 for MW19 is the most recent sampling data for TW39, which was in the same location as MW19. These results are presented for comparison.

- References:
- (1) E & E. July 1998. Draft Report for Expanded Site Investigation and Confirmatory Sampling of Areas of Interest and Drywell/Wastewater-Related Systems
 - (2) E & E. August 2001. AOC 9: Weapons Storage Area (WSA) Landfill Supplemental Investigation Final data Summary Report.
 - (3) FPM Group. February 2005. Groundwater Monitoring Report.
 - (4) FPM Group. August 2007. Baseline and PDI2 Sampling Final Monitoring Report.

Table 3-4 AOC 9 Historic Surface Water Sample Results

Surface Water Sample Number			Analytical Results by Sample Date(s) (µg/L)								
			11/4/97	5/10/00	11/13/06	7/27/10	5/17/11	10/24/11	4/16/12	9/25/12	4/8/2013
			Ref 1	Ref 2	Ref 3	E & E 2010 AOC 9 Baseline Sampling	E & E 2011 AOC 9 Performance Sampling Event 1	E & E 2011 AOC 9 Performance Sampling Event 2	E & E 2012 AOC 9 Performance Sampling Event 3	E & E 2012 AOC 9 Performance Sampling Event 4	E & E 2013 AOC 9 Long-Term Sampling Event 1
Screening Criteria ¹	Parameter										
SW01 ²	5	Chlorobenzene	U	0.85 J	U	U	0.60 J	U	U	U	U
	NA	1,2-DCB	NA	U	U	U	U	U	U	U	U
	NA	1,4-DCB	NA	U	U	U	U	U	U	U	U
	5	Total DCB	NA	U	U	U	U	U	U	U	U
	NA	Acetone	U	NA	1.8 J	U	U	U	2.5 J	U	U
	NA	cis-1,2-Dichloroethene	U	U	U	U	U	0.40 J	U	U	UJ
	NA	Tetrachloroethene	U	U	U	U	U	1.0 J	U	U	U
	NA	Trichloroethene	U	U	U	U	U	0.70 J	U	U	U
SW02 ³	5	Chlorobenzene	U	0.84	4.0	3.0	2.0 J	9.0	U	U	U
	NA	1,2-DCB	NA	0.41 J	0.29 J	0.20 J	U	0.30 J	U	U	U
	NA	1,4-DCB	NA	U	0.26 J	U	U	0.40 J	U	U	U
	5	Total DCB	NA	0.41 J	0.55 J	0.20 J	U	0.70 J	U	U	U
	NA	Acetone	U	NA	1.8 J	2.0 J	U	U	3.2 J	2.4 J	U
	NA	Total VOCs	0	1.3	4.5	5.2	2.0 J	9.7 J	3.2 J	2.4 J	0
SW03 ⁴	5	Chlorobenzene	U	0.24 J	1.2	3.0	2.0 J	2.0	U	U	U
	NA	1,2-DCB	NA	U	0.12 J	0.30 J	0.20 J	0.20 J	U	U	0.45 J
	NA	1,4-DCB	NA	U	U	0.30 J	U	U	U	U	U
	5	Total DCB	NA	U	0.12 J	0.60 J	0.20 J	0.20 J	U	U	U
	NA	Acetone	U	NA	1.9 J	U	U	U	2.9 J	U	U
	NA	Naphthalene	U	U	U	U	U	U	U	U	0.36 J
	NA	Total VOCs	0	0.24	1.3	3.6	2.2 J	2.2 J	2.9 J	0	0.81 J

Key:
J = Estimated concentration.
U = Analyte not detected.
mg/L = Micrograms per liter.
NA = Not Applicable.

0.411 J	Bolded values denote positive hits (detections).
14.9	Shaded values denote hits exceeding the NYSDEC standard.

Note:
¹ New York State Department of Environmental Conservation, Class C Freshwater Fish Propagation Standards and Guidance Values.
² SW01 is labeled as SW05 in Reference 1; SW01 is labeled as SW09 in Reference 2
³ SW02 is labeled as SW07 in Reference 1; SW02 is labeled as SW10 in Reference 2
⁴ SW03 is labeled as SW06 in Reference 1; SW03 is labeled as SW11 in Reference 2

References:
(1) E & E. July 1998. Draft Report for Expanded Site Investigation and Confirmatory Sampling of Areas of Interest and Drywell/Wastewater-Related Systems
(2) E & E. August 2001. AOC 9: Weapons Storage Area (WSA) Landfill Supplemental Investigation Final data Summary Report.
(3) FPM Group. August 2007. Baseline and PDI2 Sampling Final Monitoring Report.

Table3-5 PermeOx Injection Pre-Design Sampling Results

Parameter	Units	AOC9-MW14	AOC9-MW19	GAFB-AOC9-SS001
Alkalinity	mg/L	220	300	-
Chemical Oxygen Demand	mg/L	10 U	10 U	-
Dissolved Oxygen	mg/L	6.6	7.4	-
Ferrous Iron	mg/L	0.053 J	0.05 U	-
Hardness	mg/L	200	180	-
Oxidation-Reduction Potential (ORP)	mV	241	276	-
Total Biochemical Oxygen Demand	mg/L	20.71	0.81 J	-
Total Organic Carbon (TOC)	mg/L	2.6	3.2	-
pH (laboratory)	pH	7.7	7.4	-
TOC in Soil	ug/gdrywt	-	-	910
Total Solids	%	-	-	95

Key:

J = estimated value

mg/L = milligram per liter

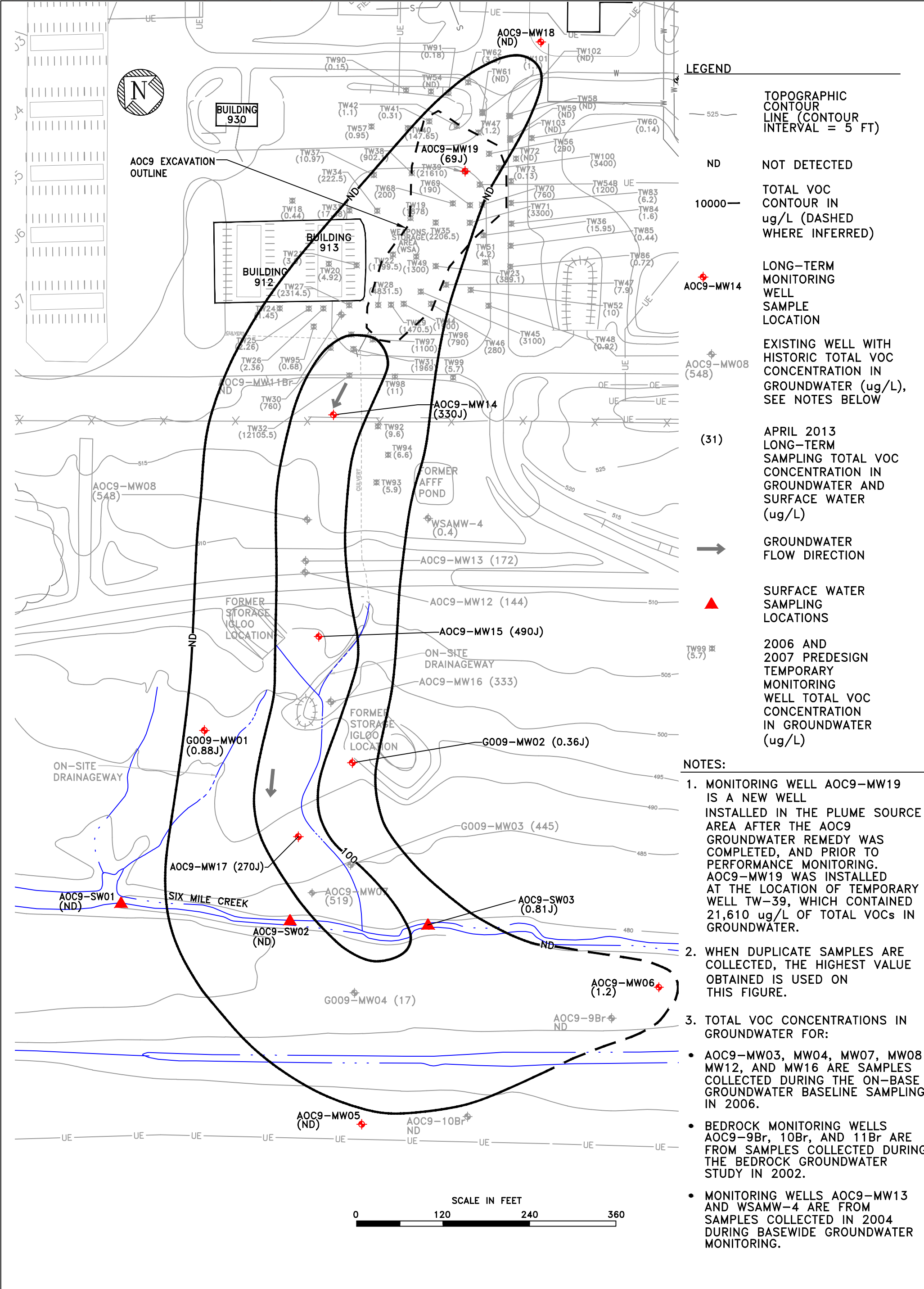
mV = millivolt

U = non-detect

ug/gdrywt = microgram per gram dry weight

- = not applicable

% = percent



FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

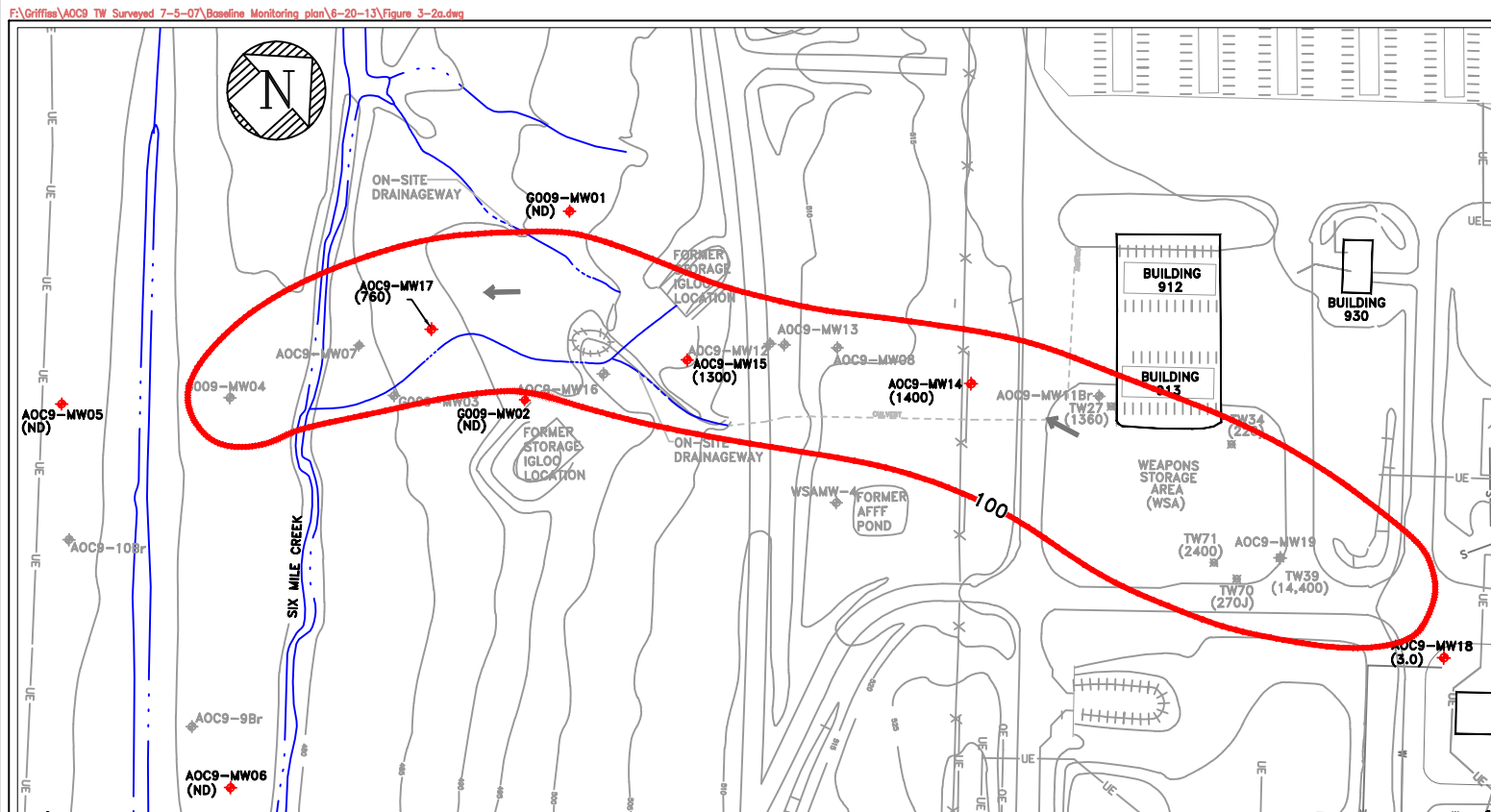


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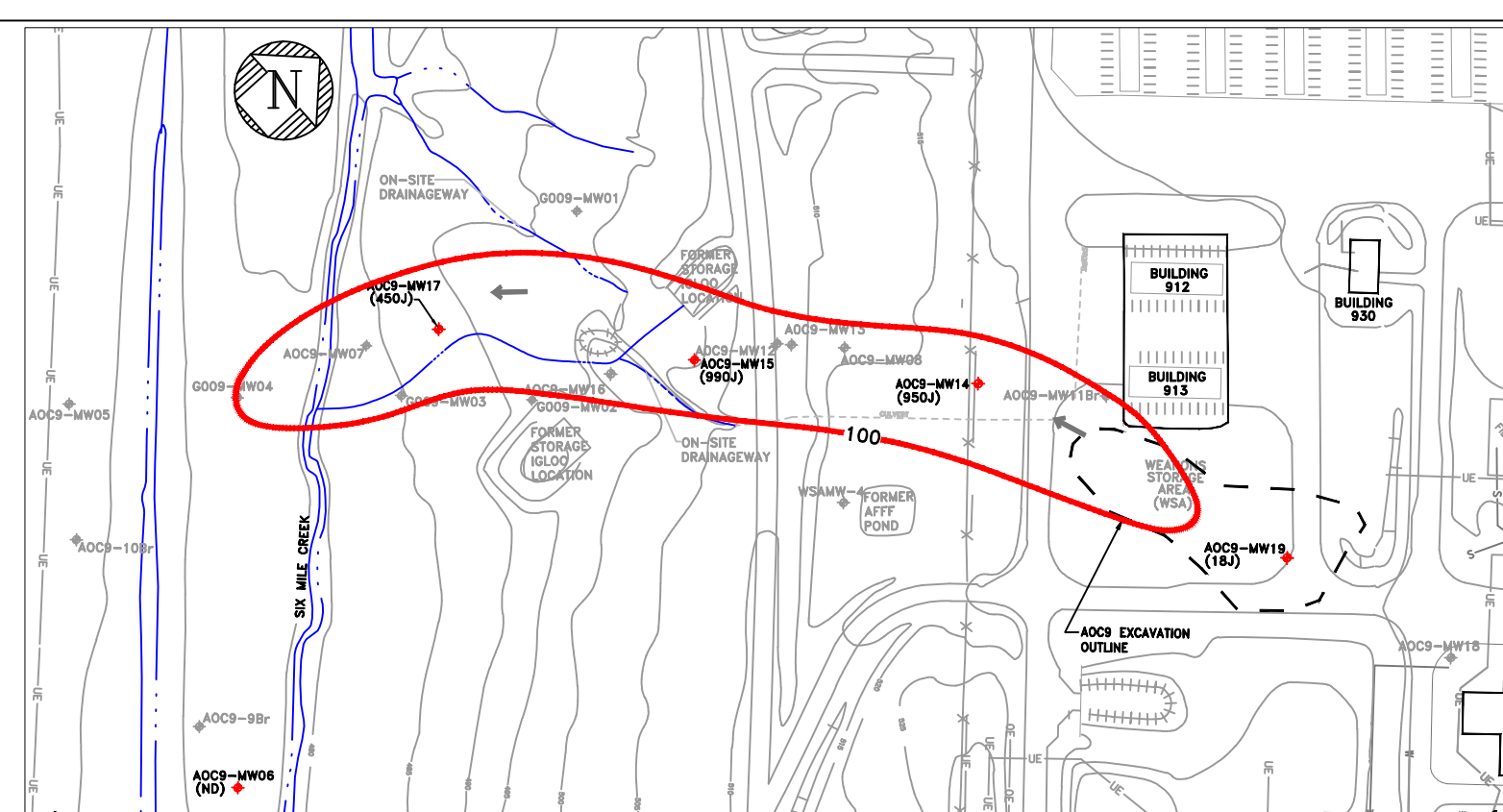
In association with:

parsons

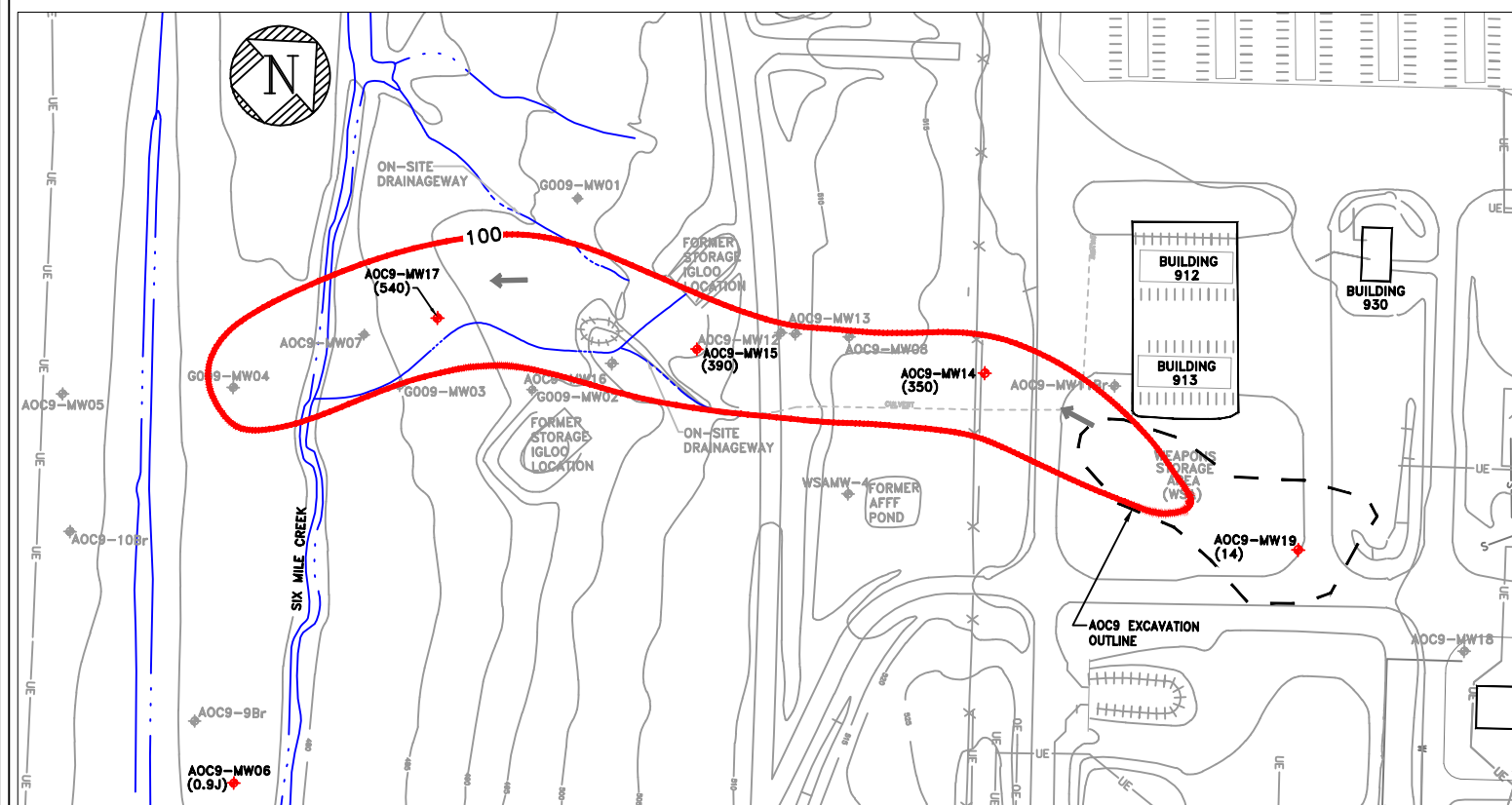
DRAWING TITLE: AOC9
APRIL 2013 LONG-TERM
MONITORING TOTAL VOLATILE
ORGANIC COMPOUND CONCENTRATIONS
IN GROUNDWATER
AND SURFACE WATER
FIGURE 3-1



BASELINE SAMPLING JULY 2010



PERFORMANCE MONITORING MAY 2011



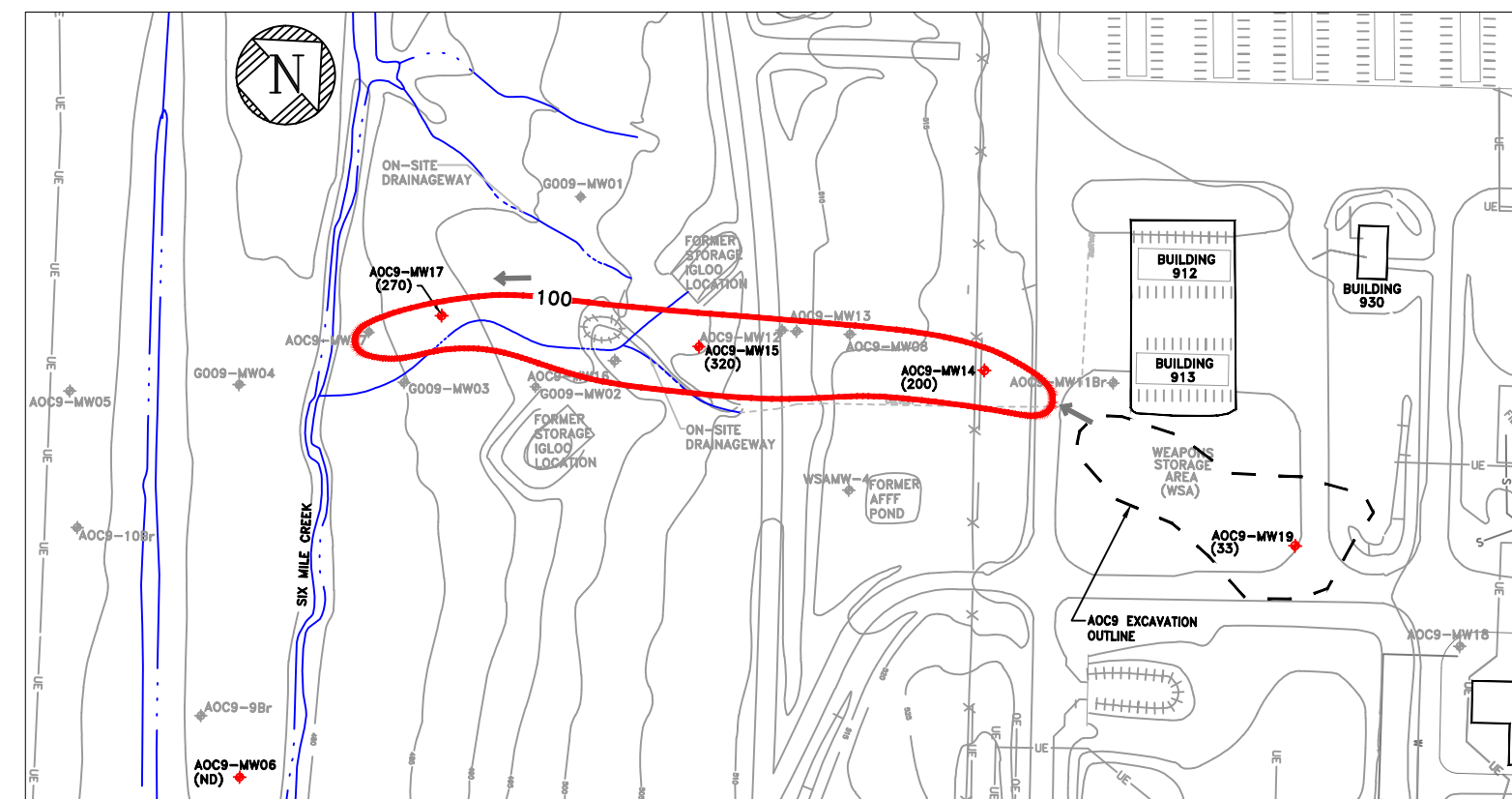
PERFORMANCE MONITORING OCTOBER 2011

LEGEND

◆ AOC9-MW14
◆ EXISTING WELL
— 100
CHLOROBENZENE
PLUME CONTOUR IN
PARTS PER BILLION

◆ BASELINE MONITORING
WELL SAMPLE LOCATION
◆ EXISTING WELL
— 100
CHLOROBENZENE
PLUME CONTOUR IN
PARTS PER BILLION

— 100
CHLOROBENZENE
PLUME CONTOUR IN
PARTS PER BILLION

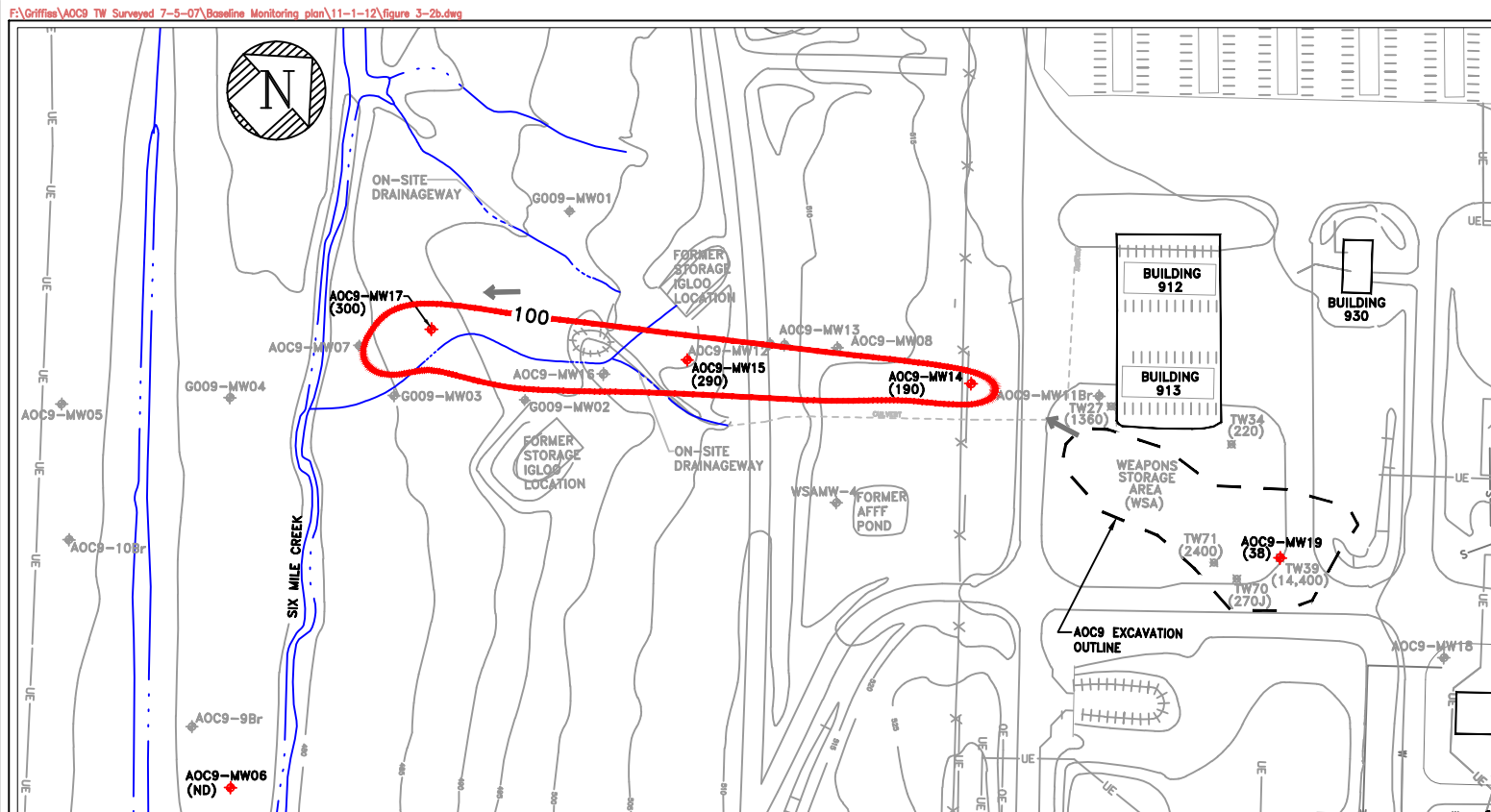


PERFORMANCE MONITORING APRIL 2012

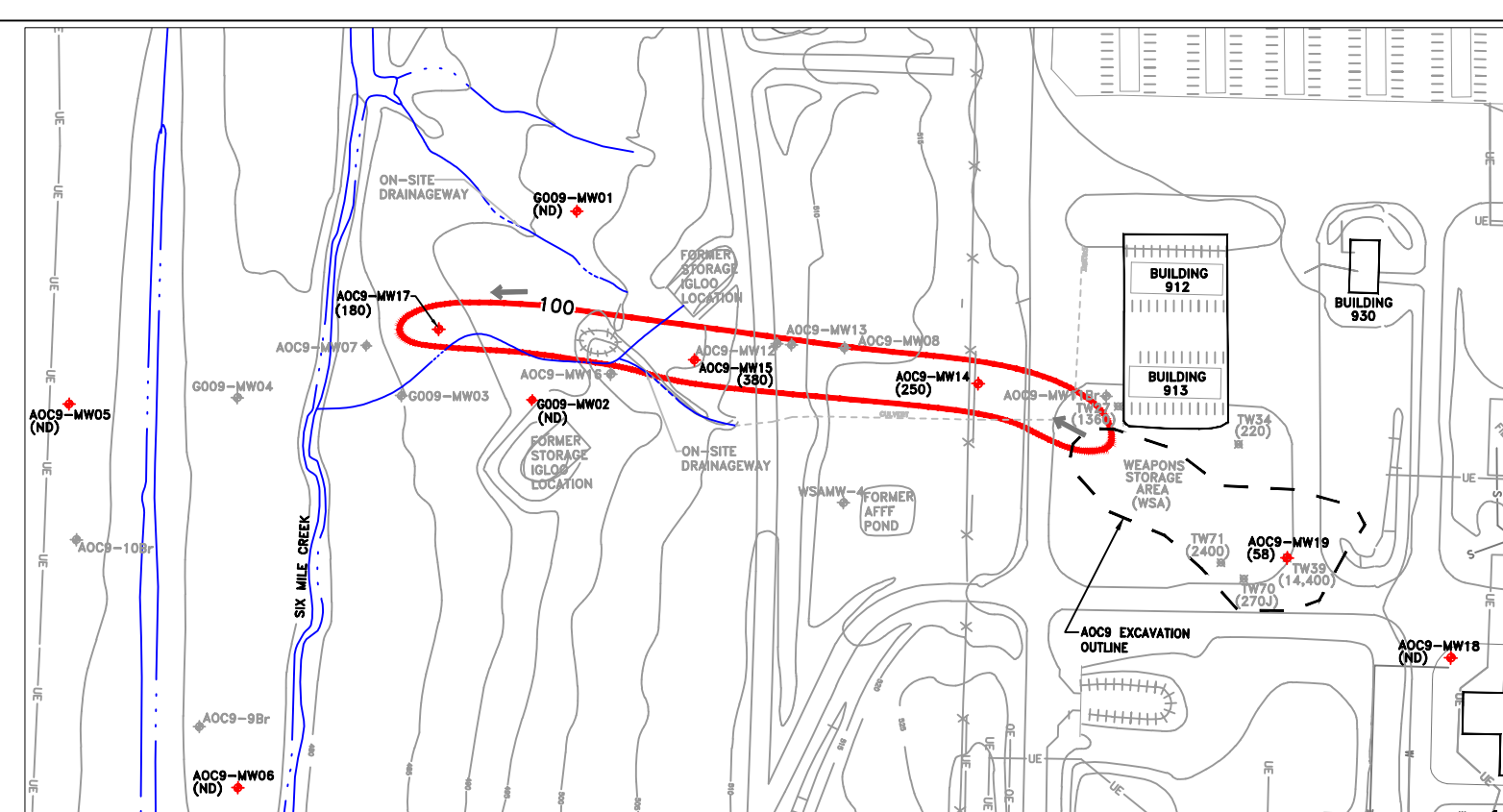
— 100
CHLOROBENZENE
PLUME CONTOUR IN
PARTS PER BILLION

◆ PREDESIGN INVESTIGATION
TEMPORARY MONITORING
WELL
(ND) NOT DETECTED

SCALE IN FEET
0 200 400 600



PERFORMANCE MONITORING SEPTEMBER 2012



LONG-TERM MONITORING APRIL 2013

RESERVED FOR FUTURE
SAMPLING EVENT

RESERVED FOR FUTURE
SAMPLING EVENT

LEGEND

◆ AOC9-MW14
◆
100

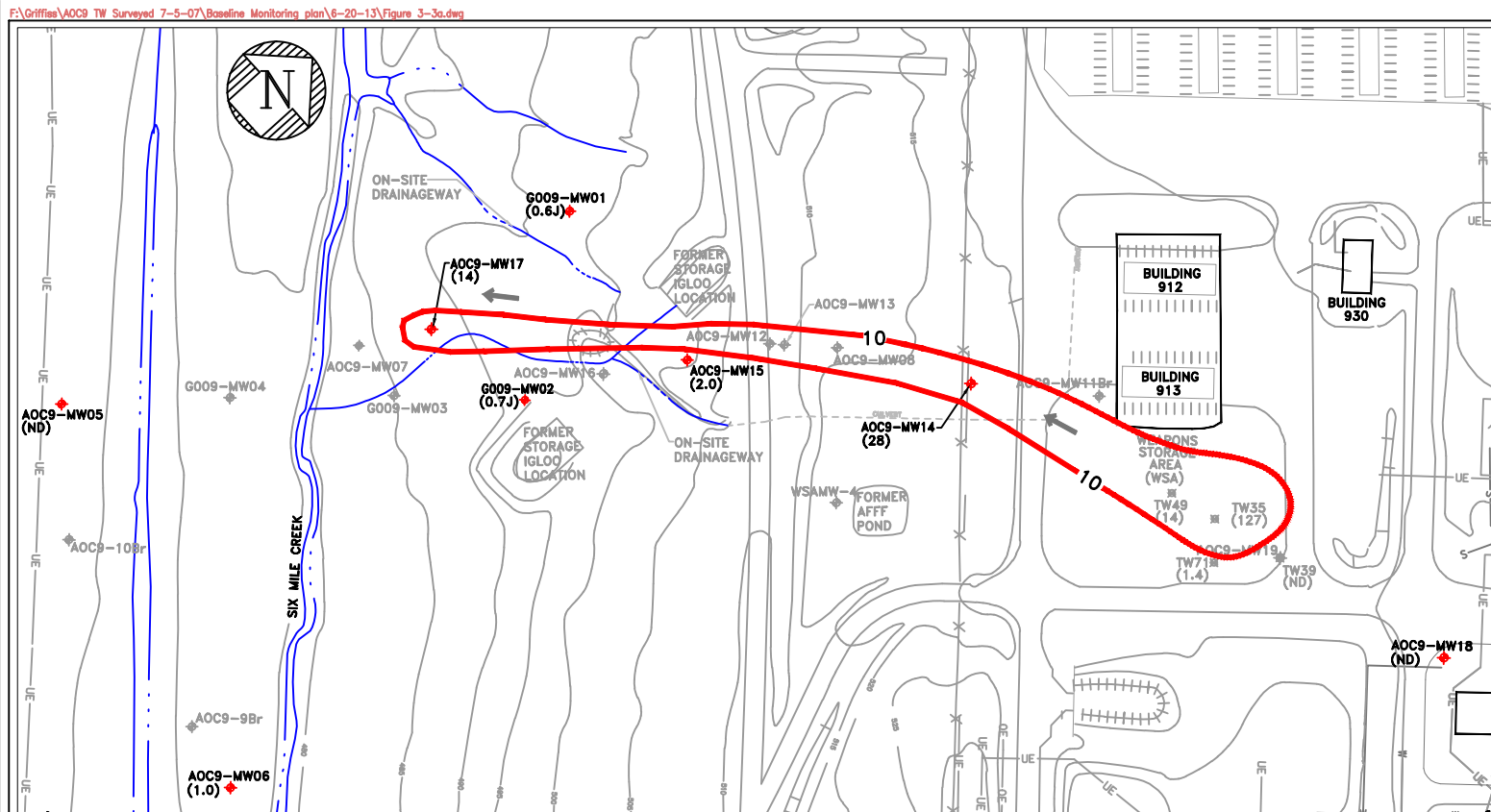
◆ BASELINE MONITORING
WELL SAMPLE LOCATION
◆ EXISTING WELL
◆ CHLOROBENZENE
PLUME CONTOUR IN
PARTS PER BILLION

→
(0.5)

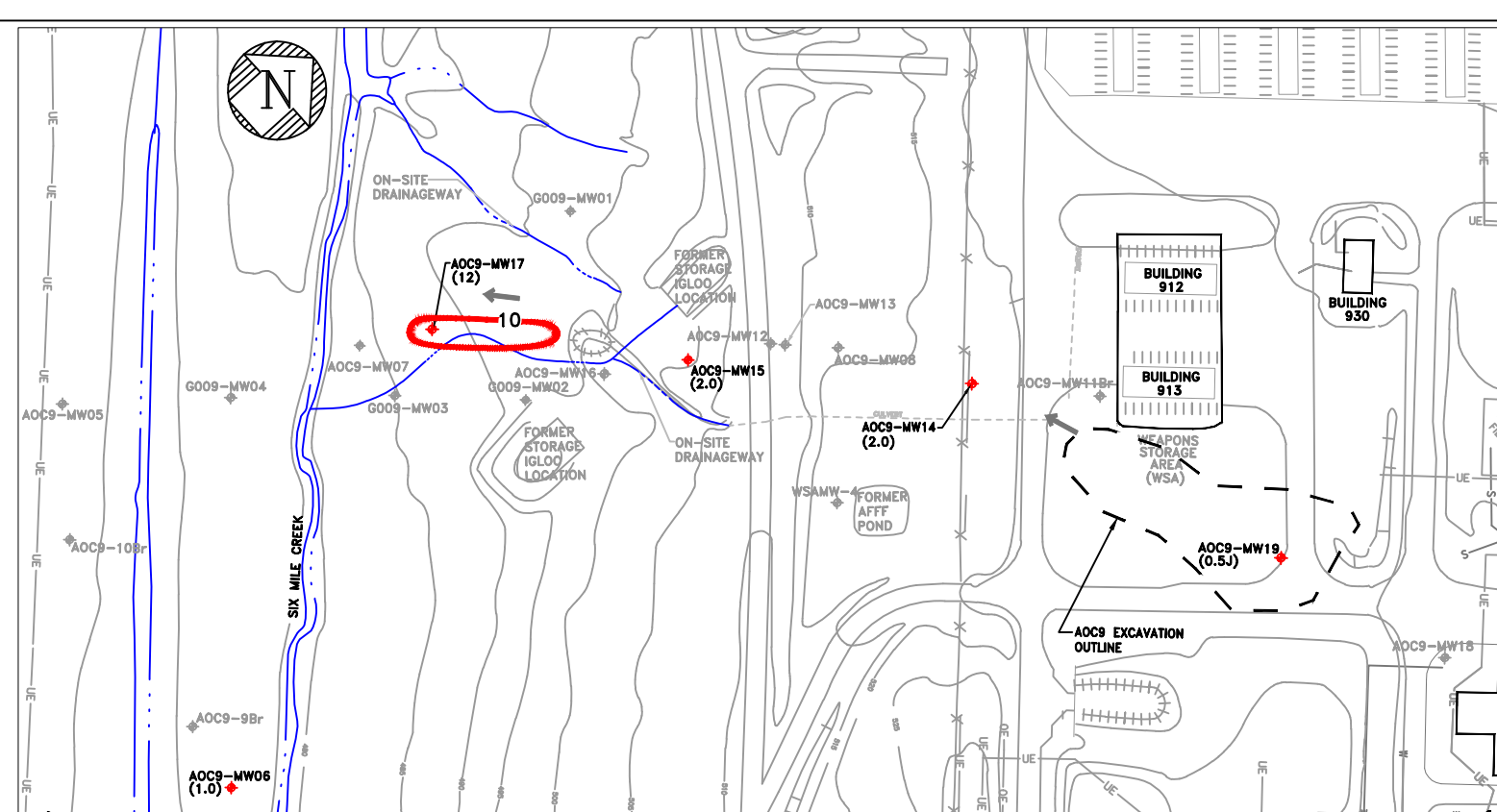
— TOPOGRAPHIC CONTOUR LINE
(CONTOUR INTERVAL = 5 FT)
→ GROUNDWATER FLOW DIRECTION
— CHLOROBENZENE IN PARTS
PER BILLION

◆ TW39 PREDESIGN INVESTIGATION
TEMPORARY MONITORING
WELL
(ND) NOT DETECTED

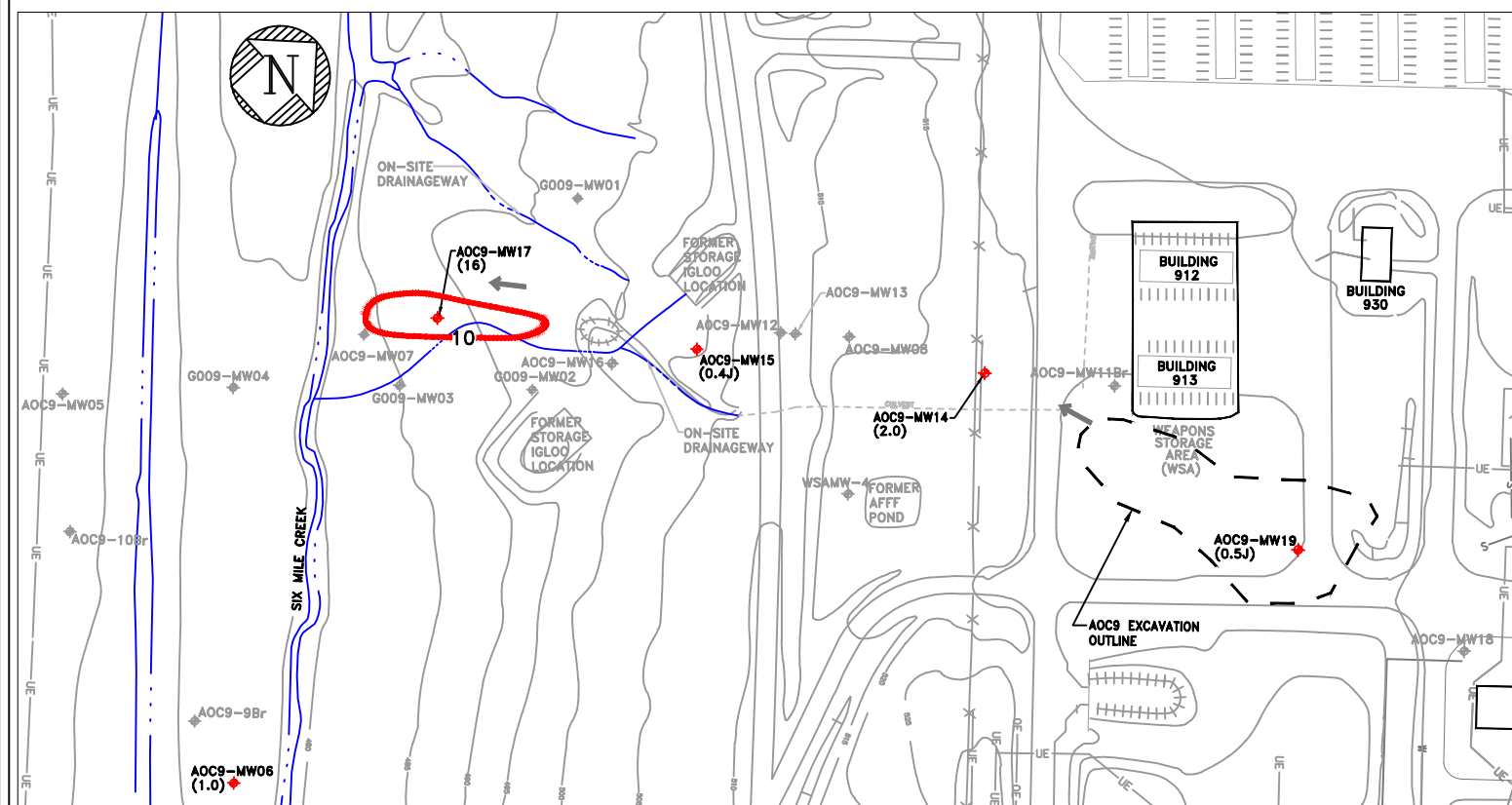
SCALE IN FEET
0 200 400 600



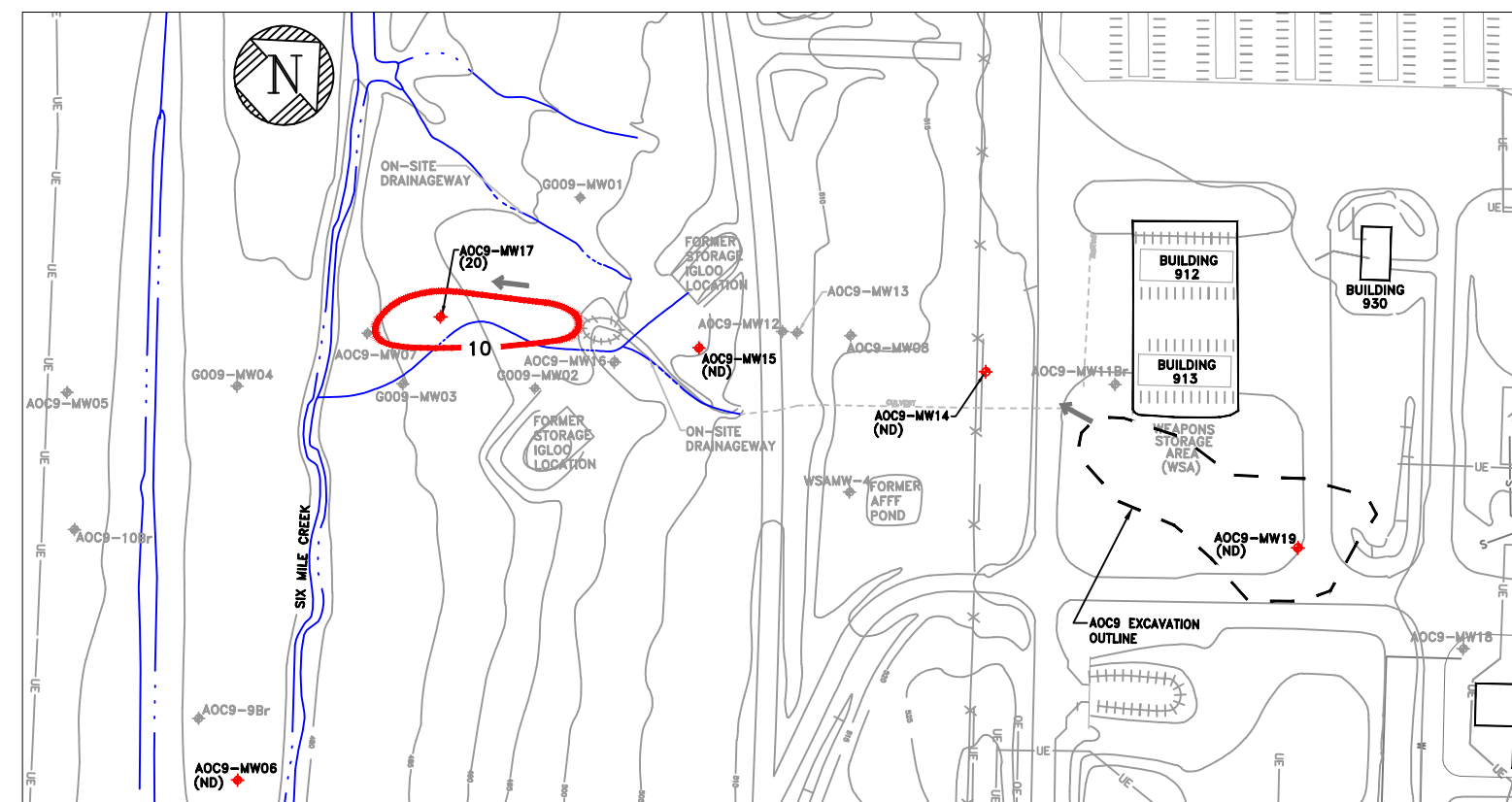
BASELINE SAMPLING JULY 2010



PERFORMANCE MONITORING MAY 2011



PERFORMANCE MONITORING OCTOBER 2011



PERFORMANCE MONITORING APRIL 2012

LEGEND

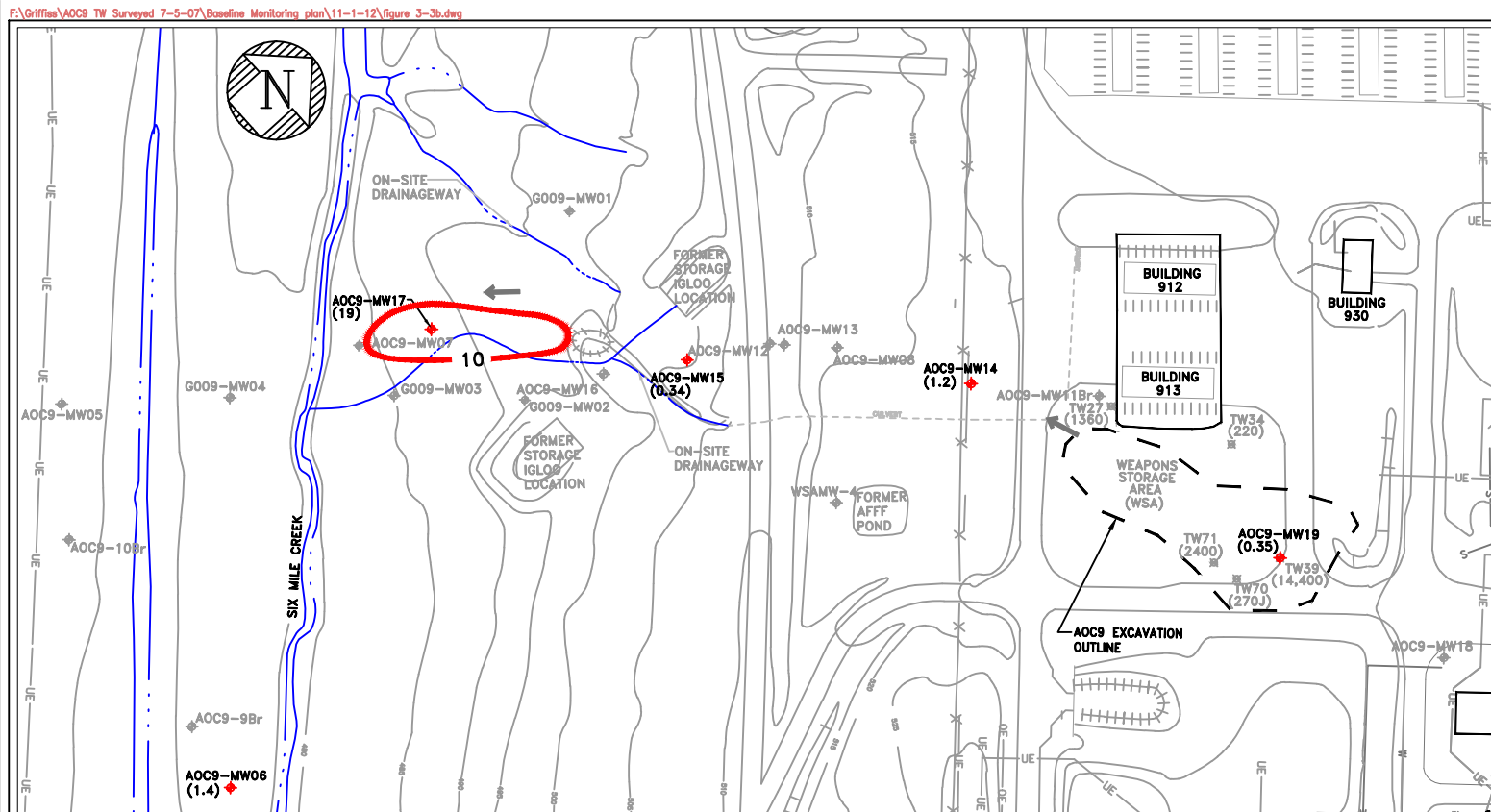
◆ AOC9-MW14
◆ EXISTING WELL
— 10
TCE PLUME CONTOUR IN PARTS PER BILLION

◆ BASELINE MONITORING WELL SAMPLE LOCATION
◆ EXISTING WELL
— 10
TCE PLUME CONTOUR IN PARTS PER BILLION
(0.5J)

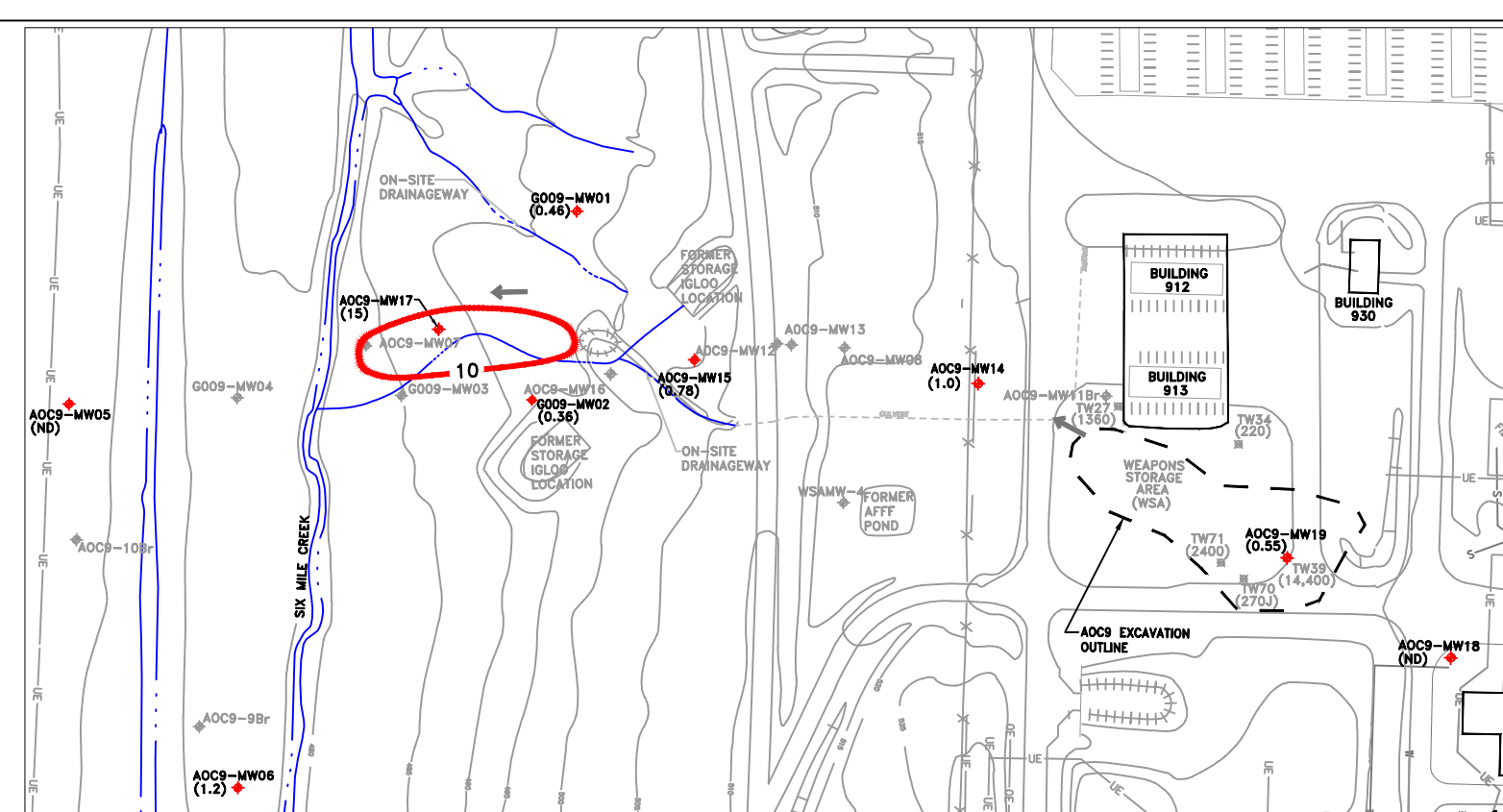
— TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
— GROUNDWATER FLOW DIRECTION
TCE IN PARTS PER BILLION

◆ PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
(ND) NOT DETECTED

SCALE IN FEET
0 200 400 600



PERFORMANCE MONITORING SEPTEMBER 2012



LONG-TERM MONITORING APRIL 2013

RESERVED FOR FUTURE
SAMPLING EVENT

RESERVED FOR FUTURE
SAMPLING EVENT

LEGEND

◆ AOC9-MW14
◆
10

BASELINE MONITORING
WELL SAMPLE LOCATION

EXISTING WELL

TCE
PLUME CONTOUR IN
PARTS PER BILLION

→
(0.5J)

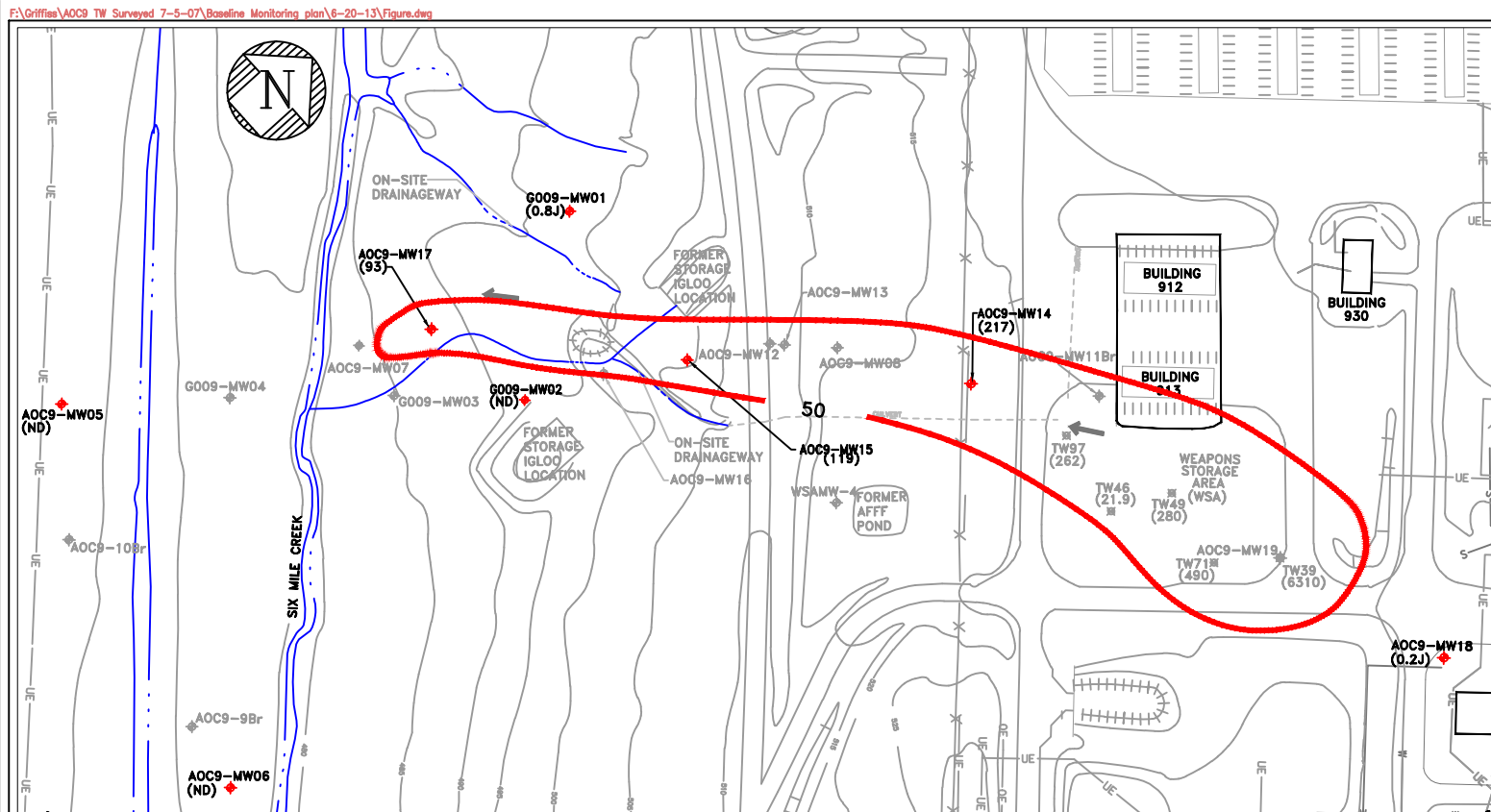
TOPOGRAPHIC CONTOUR LINE
(CONTOUR INTERVAL = 5 FT)

GROUNDWATER FLOW DIRECTION

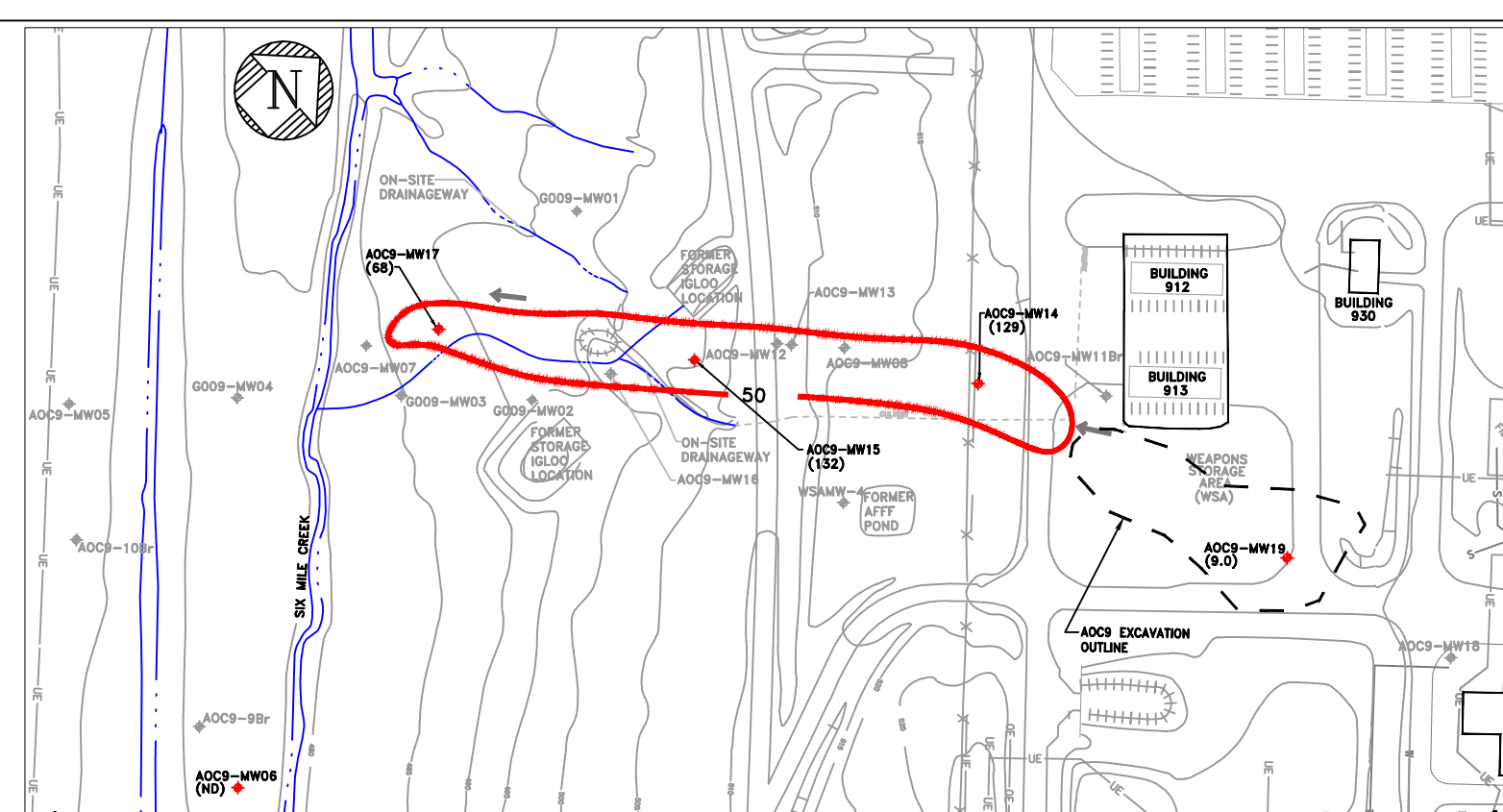
TCE IN PARTS
PER BILLION

◆ TW39
(ND) NOT DETECTED

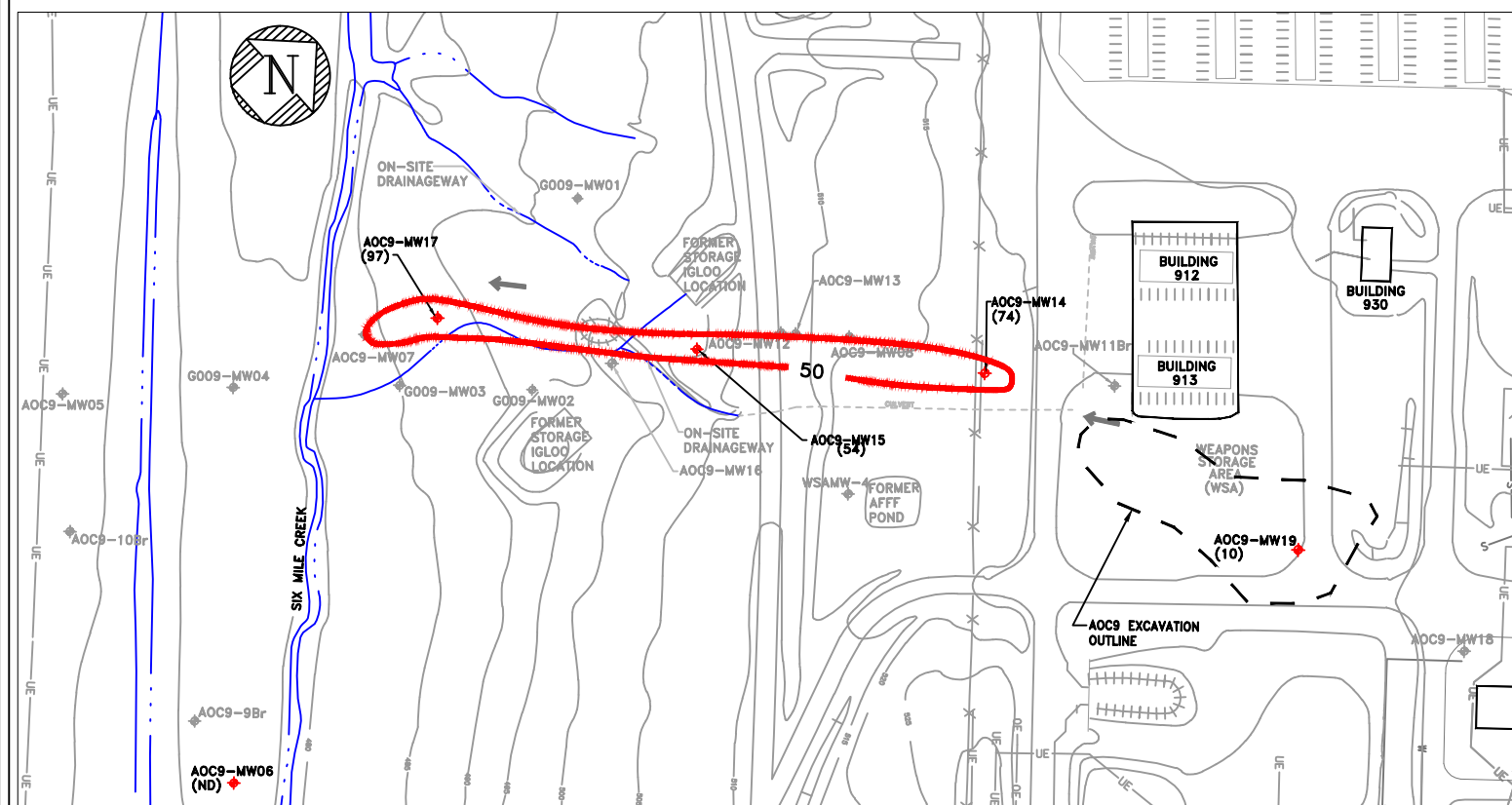
SCALE IN FEET
0 200 400 600



BASELINE SAMPLING JULY 2010



PERFORMANCE MONITORING MAY 2011

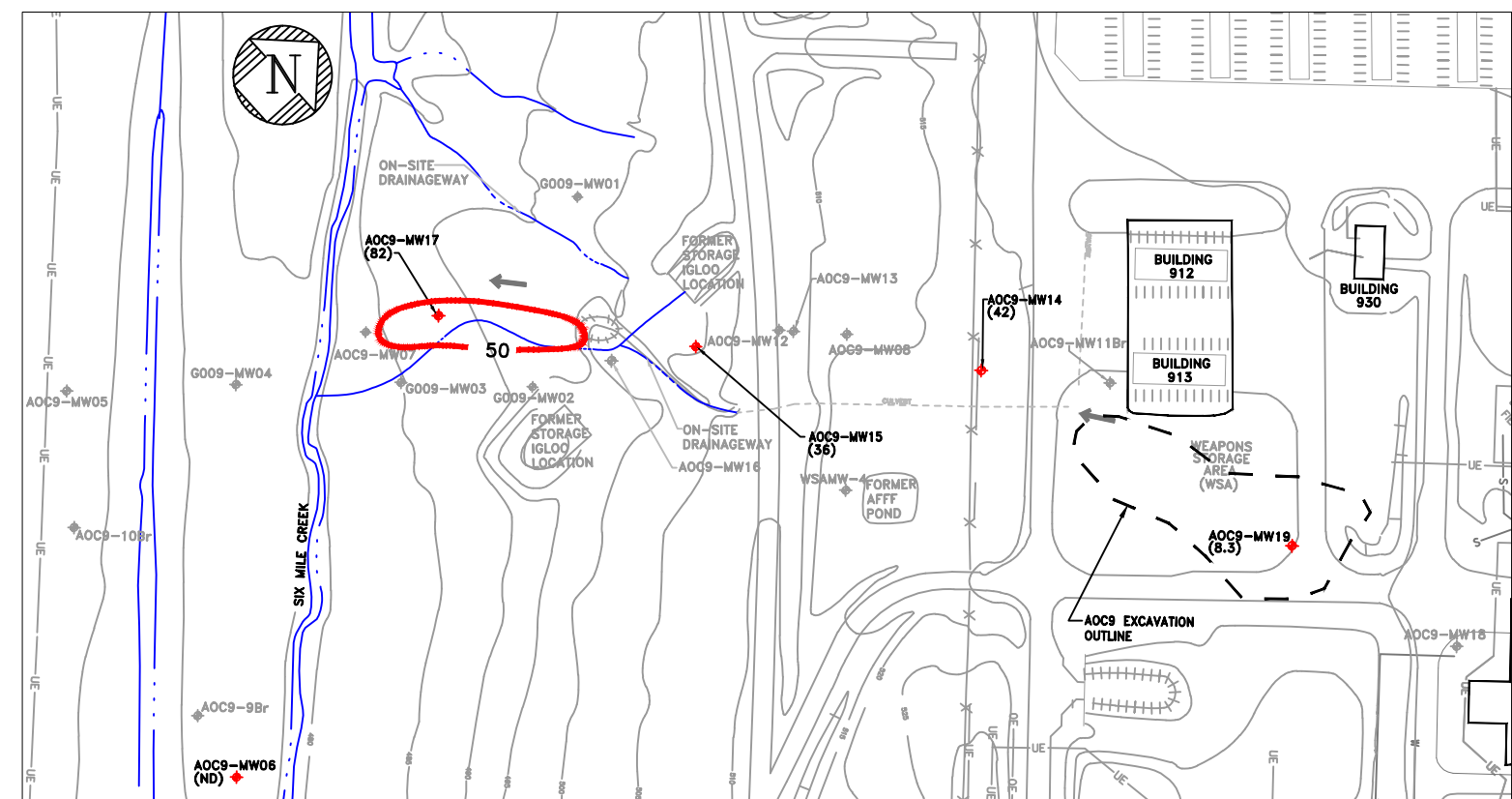


PERFORMANCE MONITORING OCTOBER 2011

LEGEND

AOC9-MW14
EXISTING WELL
TOTAL DCB PLUME CONTOUR IN PARTS PER BILLION
50

BASELINE MONITORING WELL SAMPLE LOCATION
GROUNDWATER FLOW DIRECTION
(0.5J)

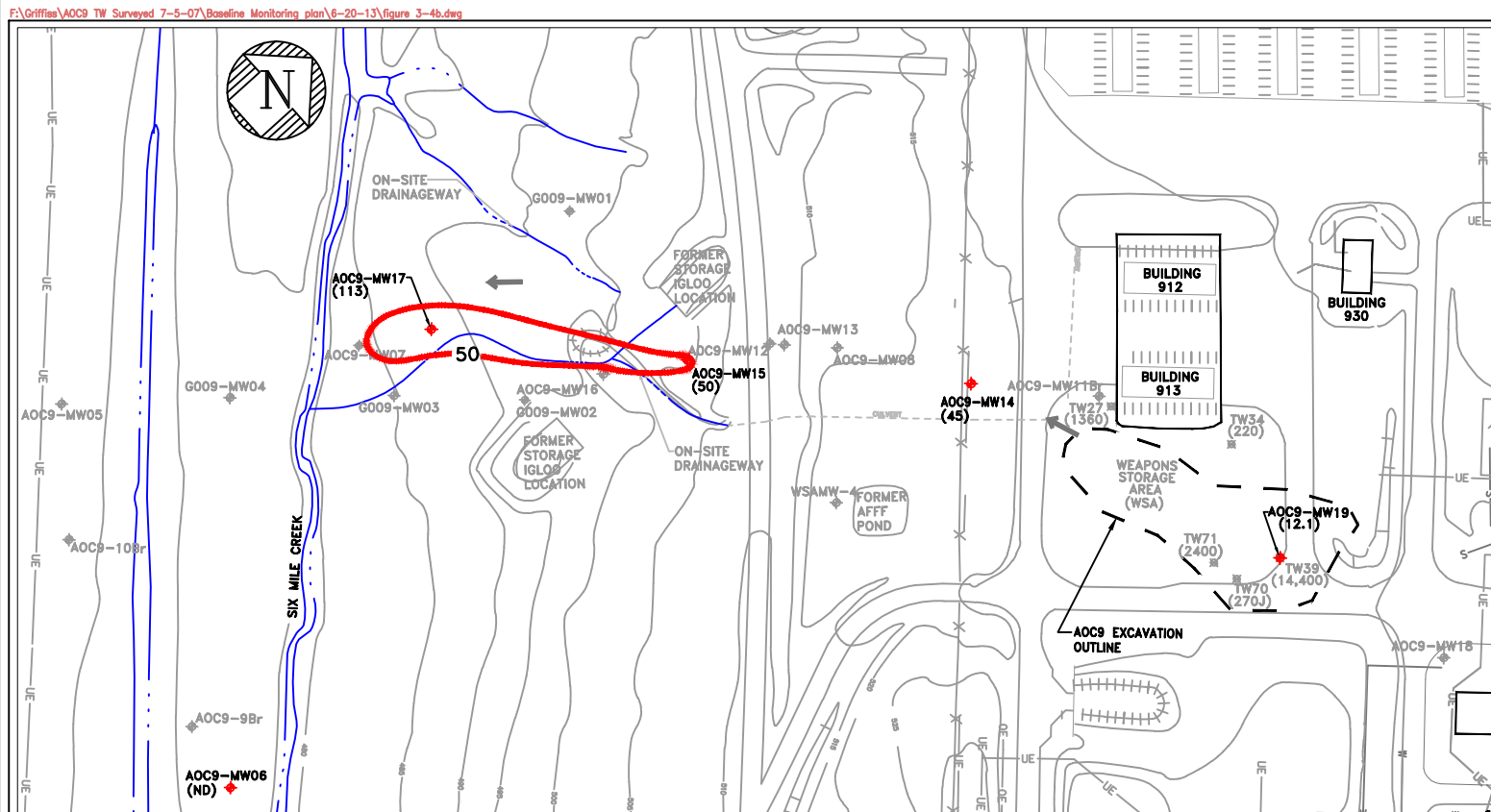


PERFORMANCE MONITORING APRIL 2012

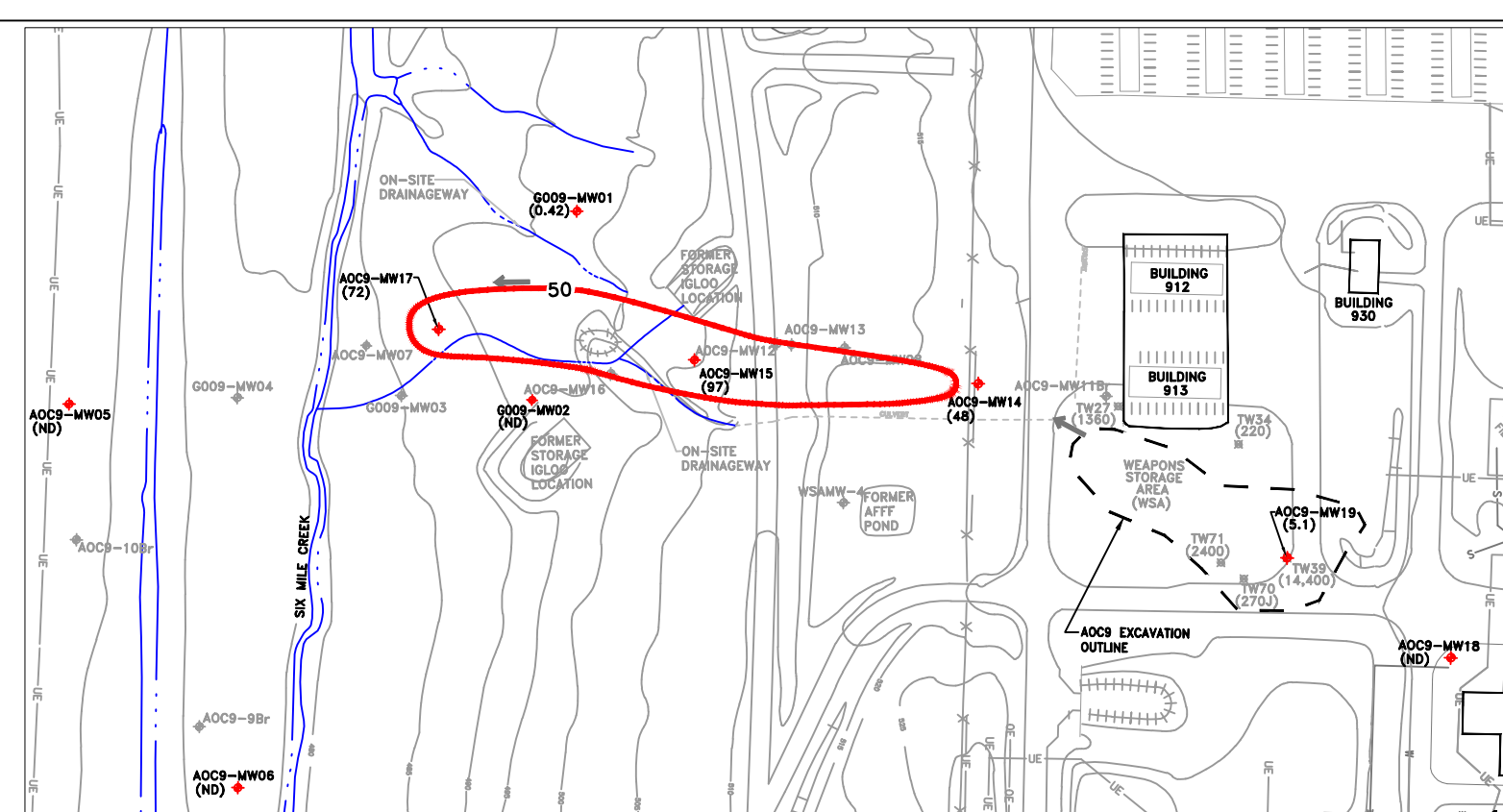
TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
GROUNDWATER FLOW DIRECTION
TOTAL DCB IN PARTS PER BILLION

PREDESIGN INVESTIGATION TEMPORARY MONITORING WELL
(ND) NOT DETECTED

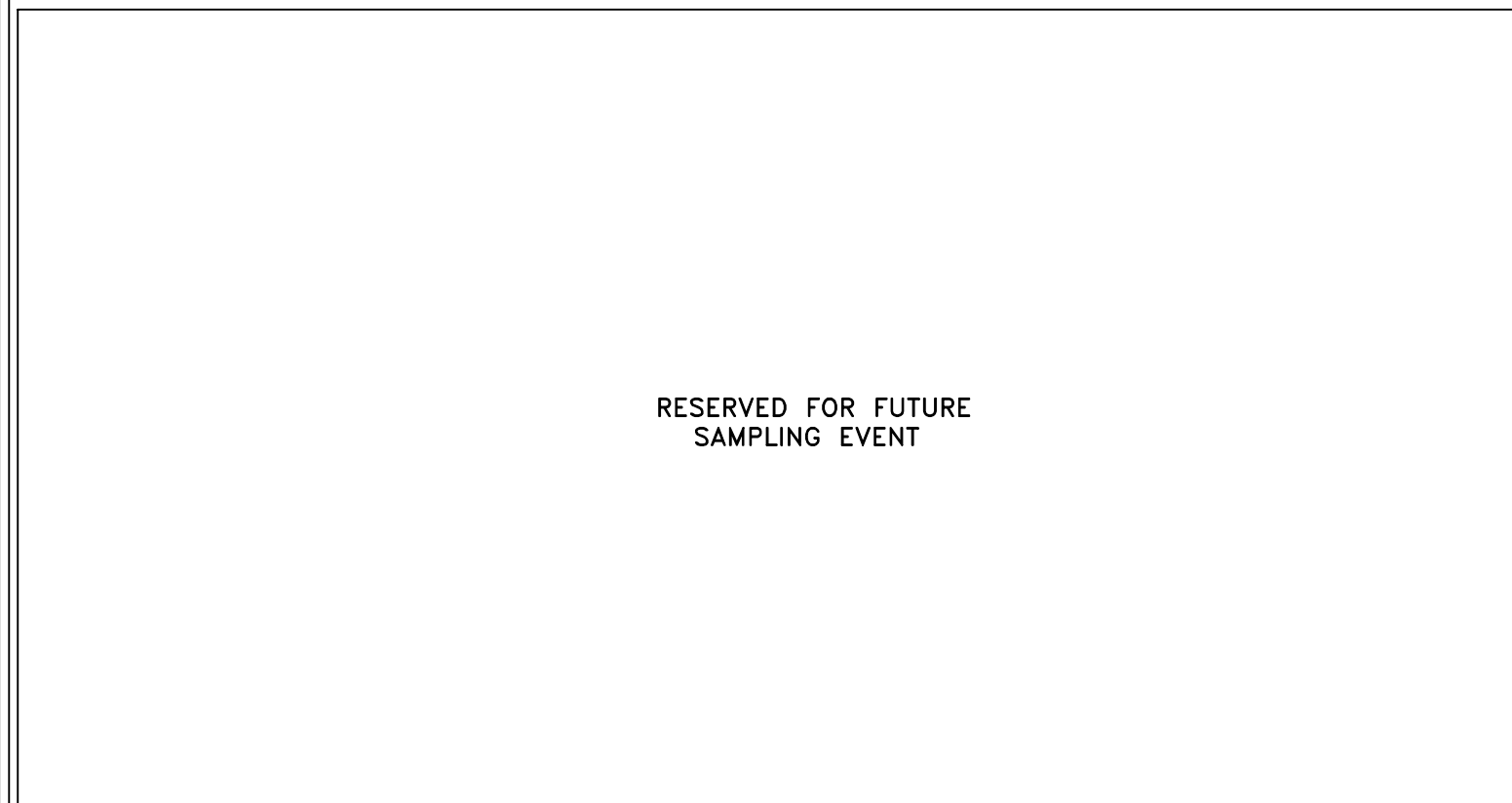
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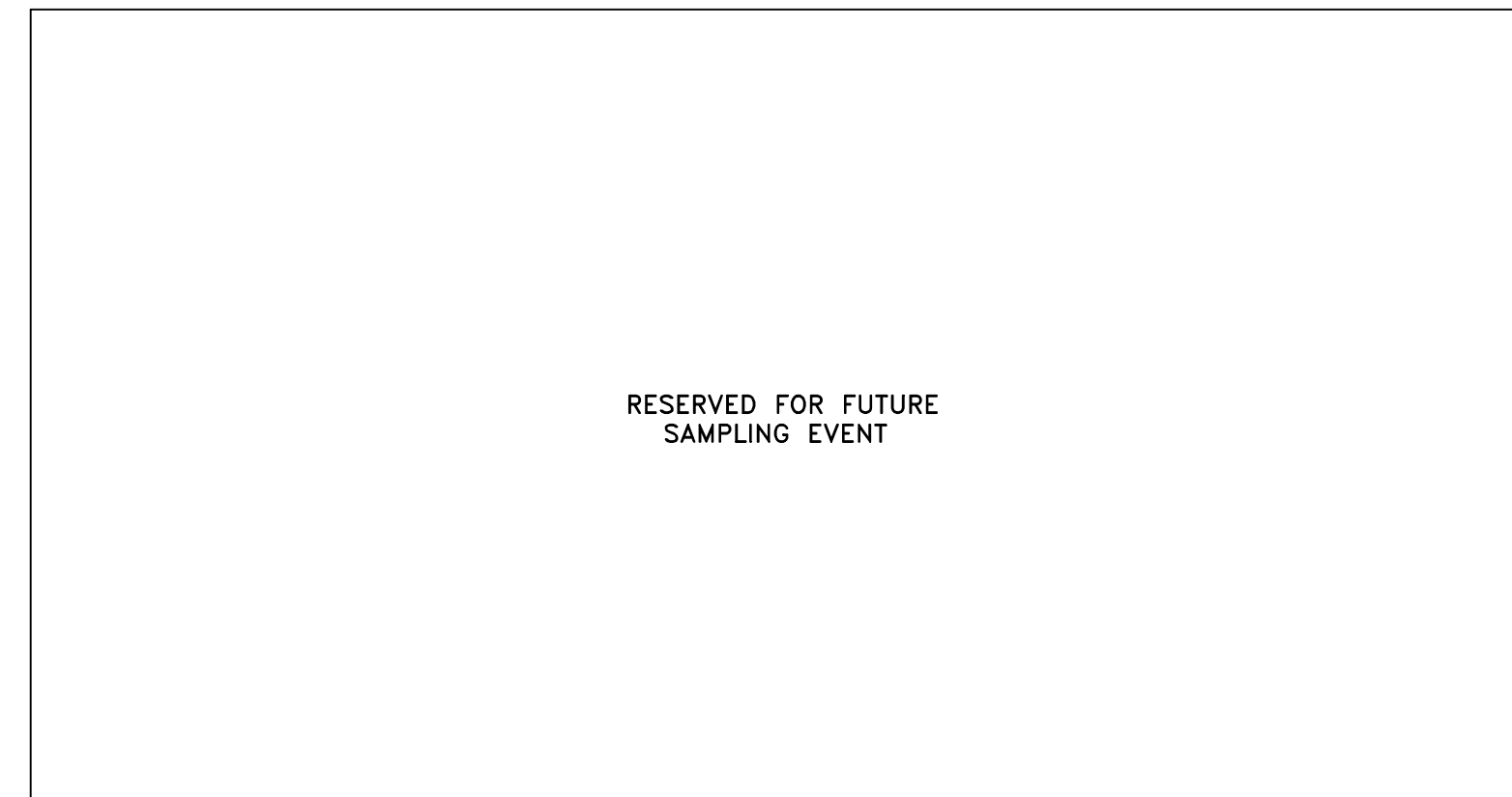
PERFORMANCE MONITORING SEPTEMBER 2012



LONG-TERM MONITORING APRIL 2013



RESERVED FOR FUTURE
SAMPLING EVENT



RESERVED FOR FUTURE
SAMPLING EVENT

LEGEND

◆ AOC9-MW14
◆ EXISTING WELL
— 50

BASELINE MONITORING
WELL SAMPLE LOCATION
EXISTING WELL
TOTAL DCB
PLUME CONTOUR IN
PARTS PER BILLION

→
(0.5)

TOPOGRAPHIC CONTOUR LINE
(CONTOUR INTERVAL = 5 FT)
GROUNDWATER FLOW DIRECTION
TOTAL DCB IN PARTS
PER BILLION

◆ PREDESIGN INVESTIGATION
TEMPORARY MONITORING
WELL
(ND) NOT DETECTED

SCALE IN FEET
0 200 400 600

Figure 3-5 G009-MW01 Trend Analysis

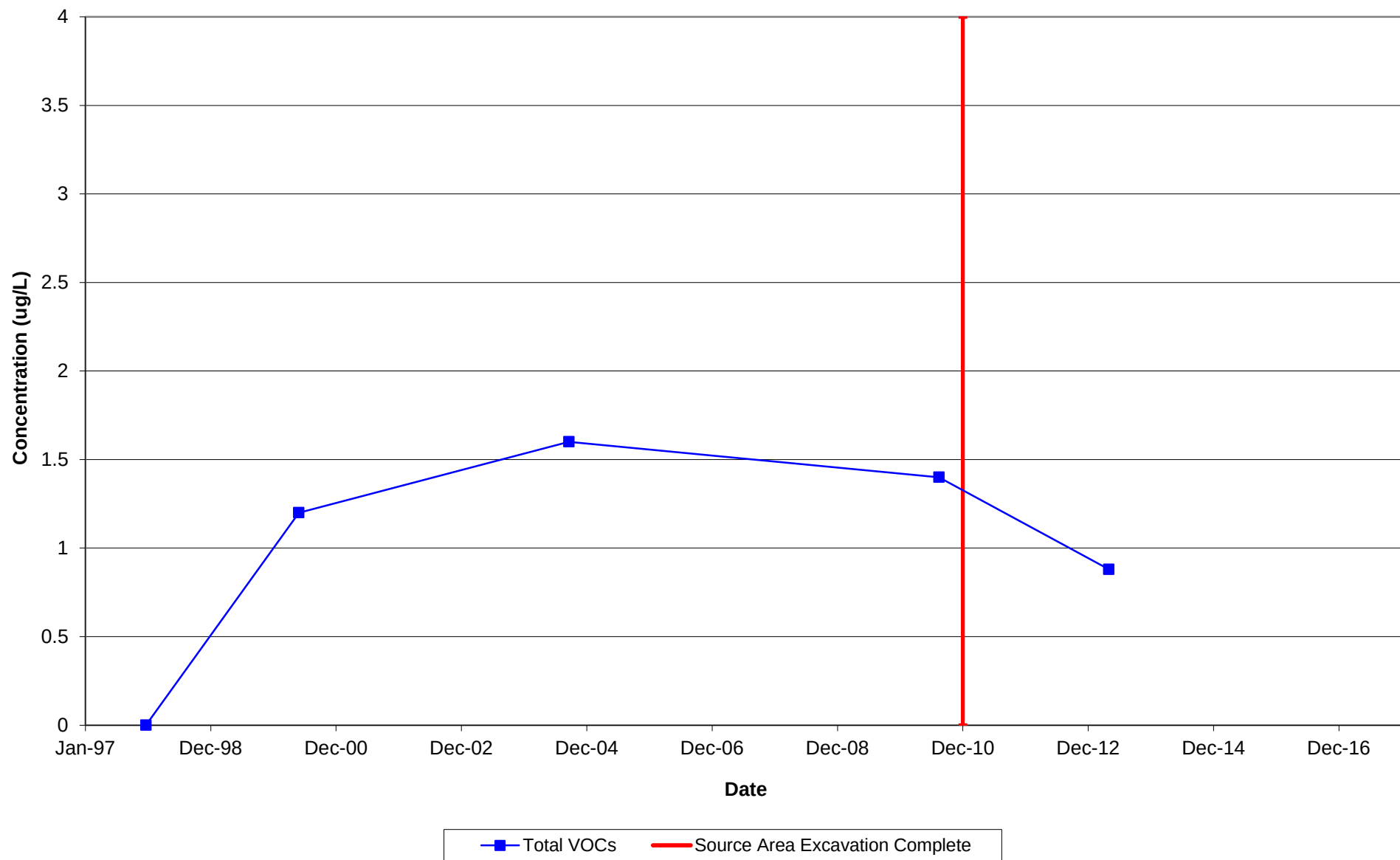


Figure 3-6 G009-MW02 Trend Analysis

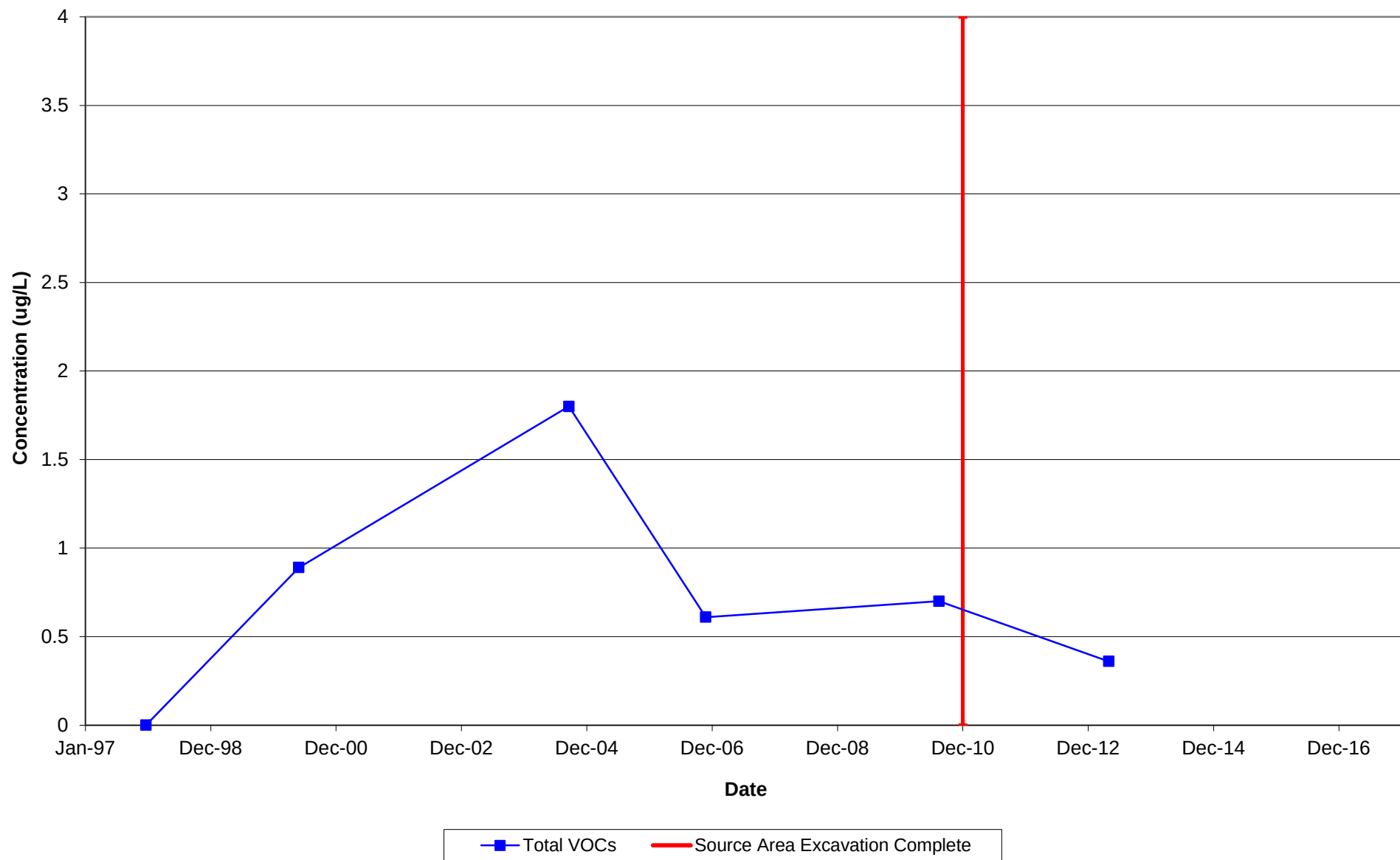


Figure 3-7 AOC9-MW06 Trend Analysis

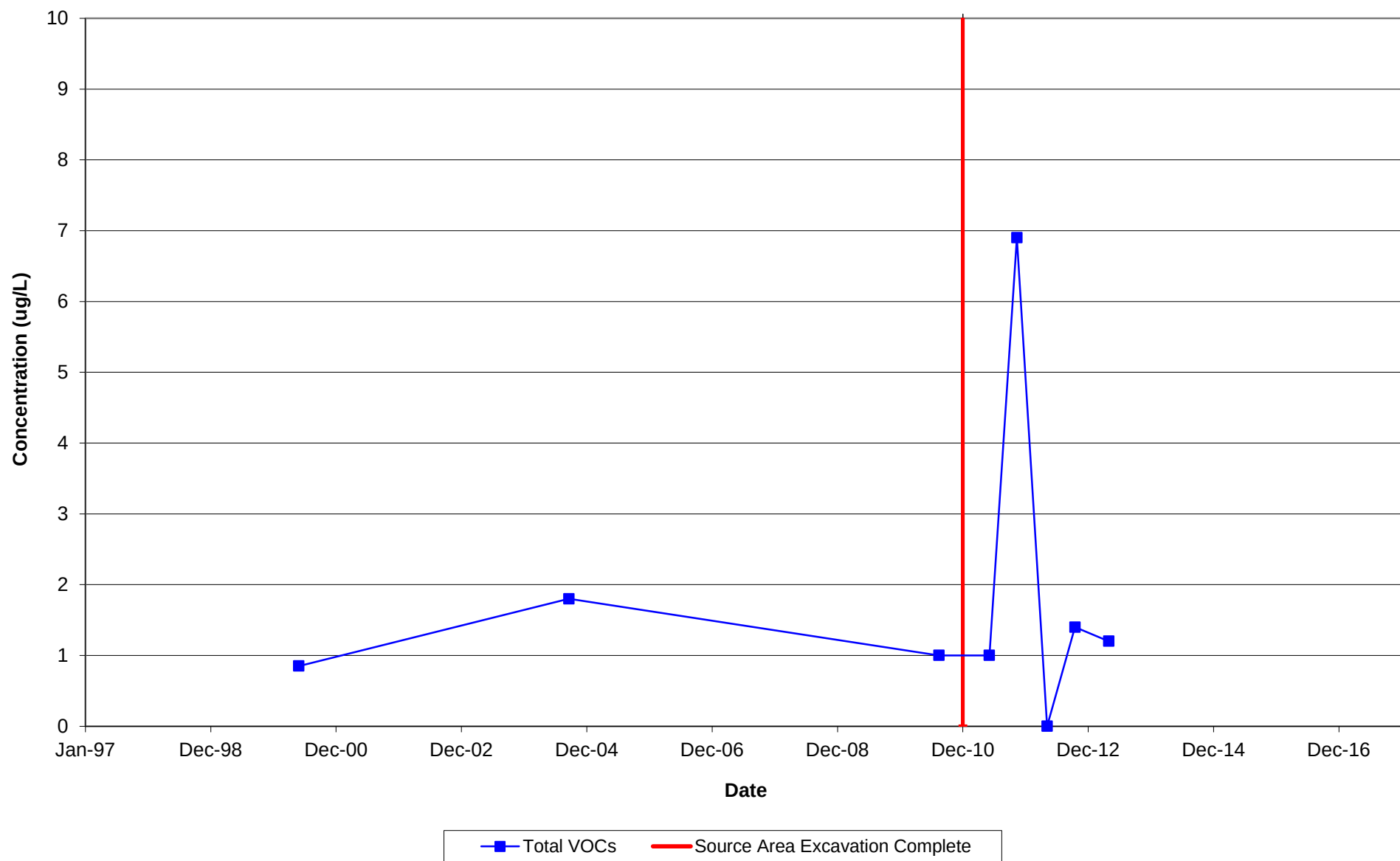


Figure 3-8 AOC9-MW14 Trend Analysis

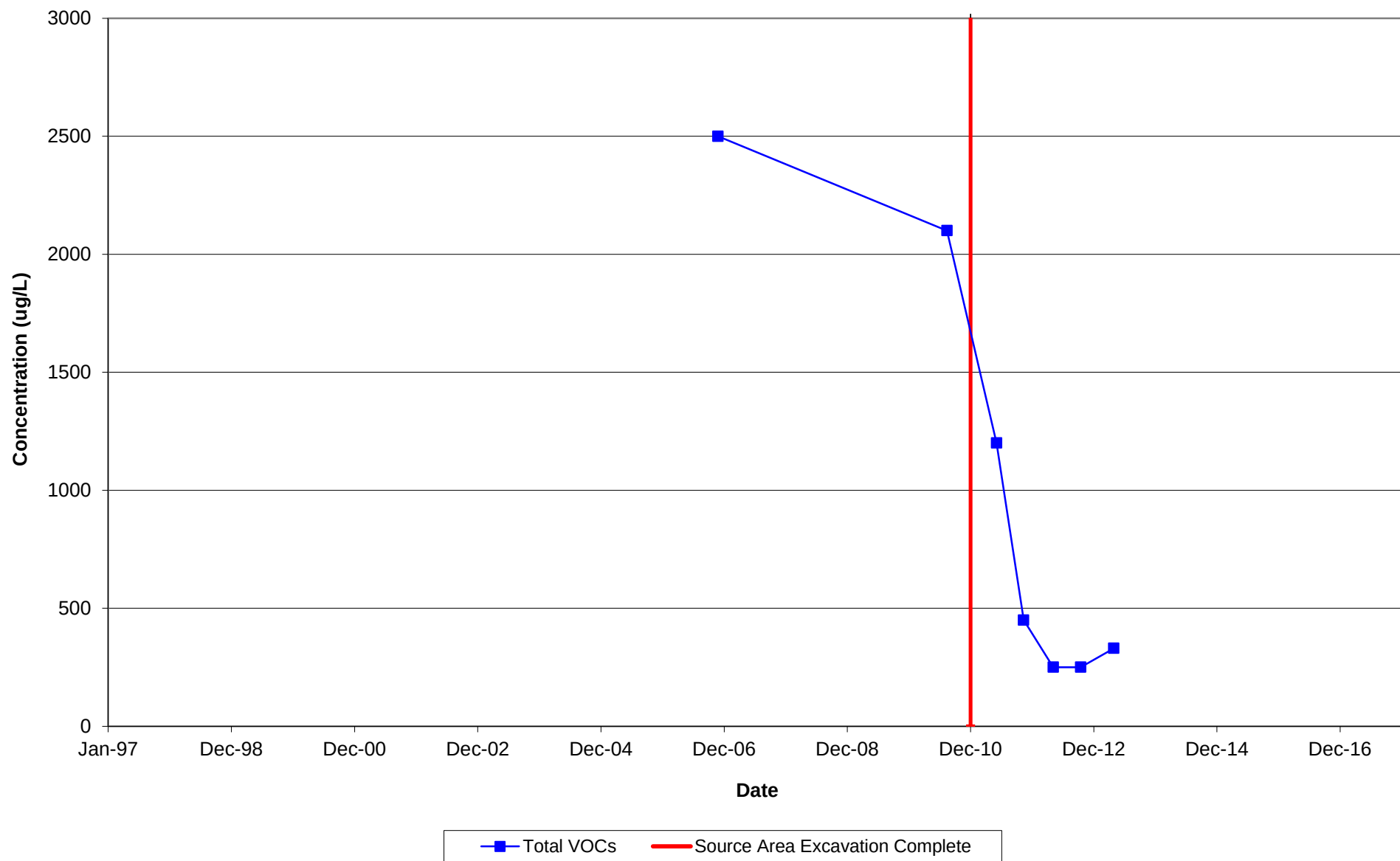


Figure 3-9 AOC9-MW15 Trend Analysis

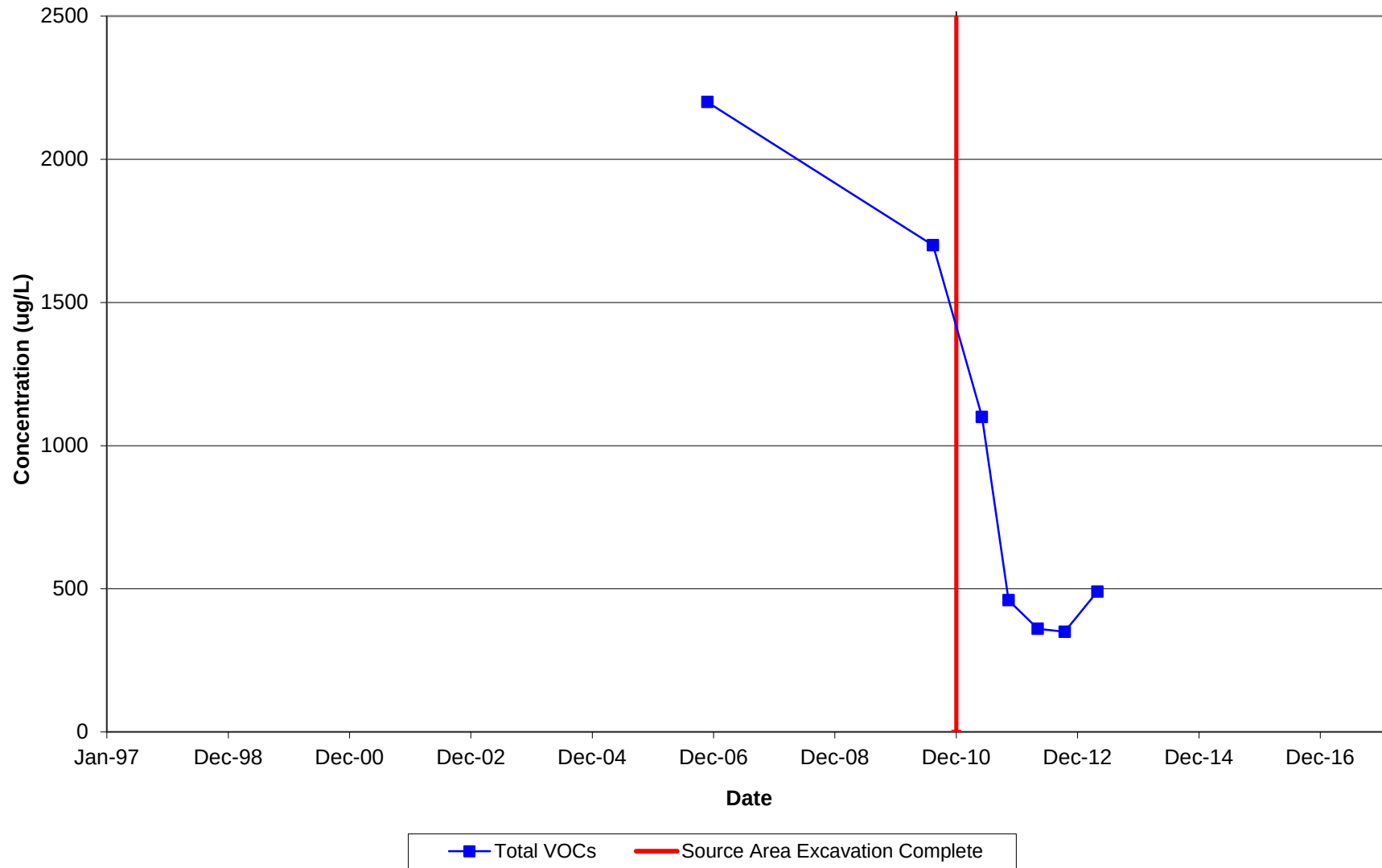


Figure 3-10 AOC9-MW17 Trend Analysis

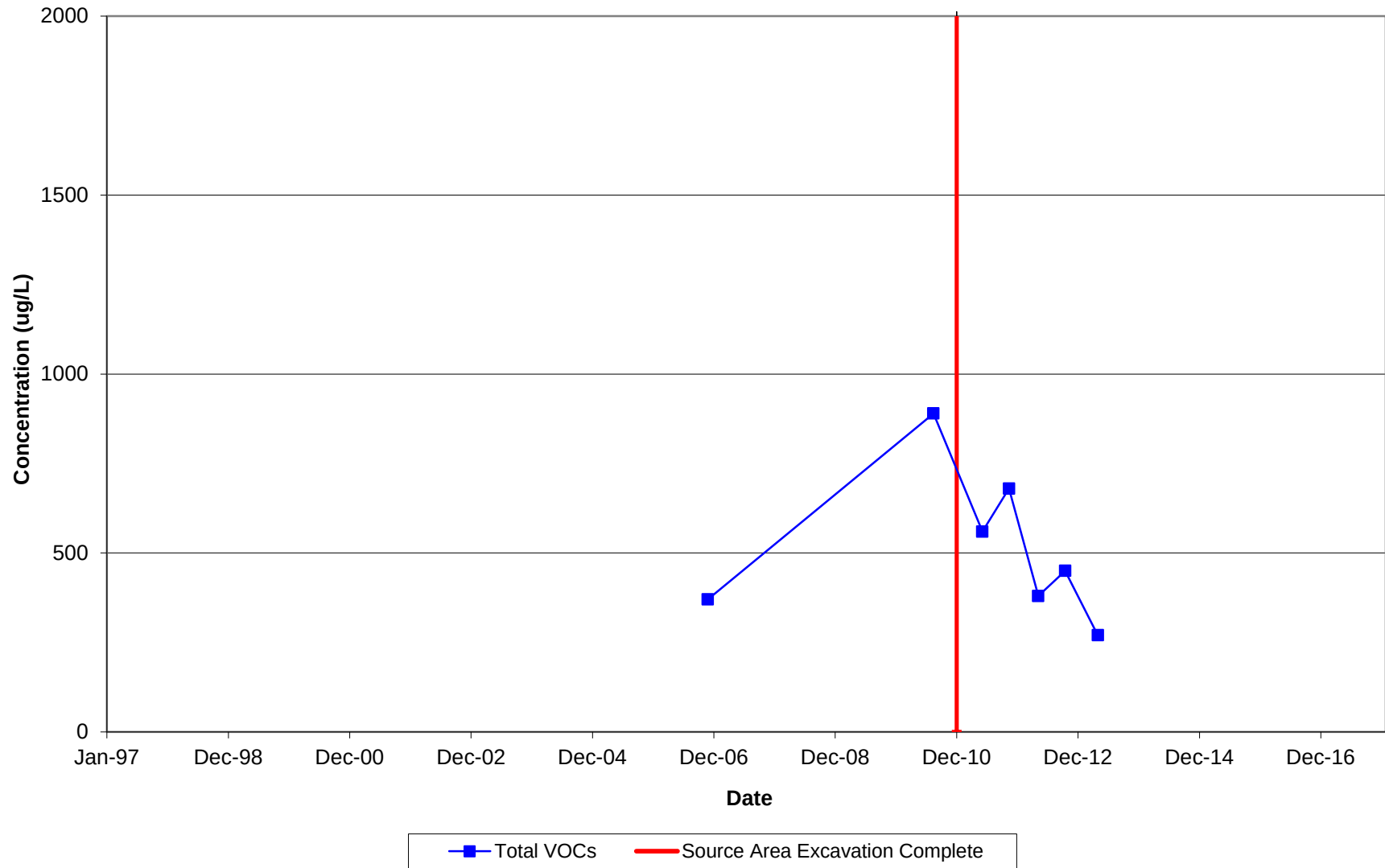


Figure 3-11 AOC9-MW18 Trend Analysis

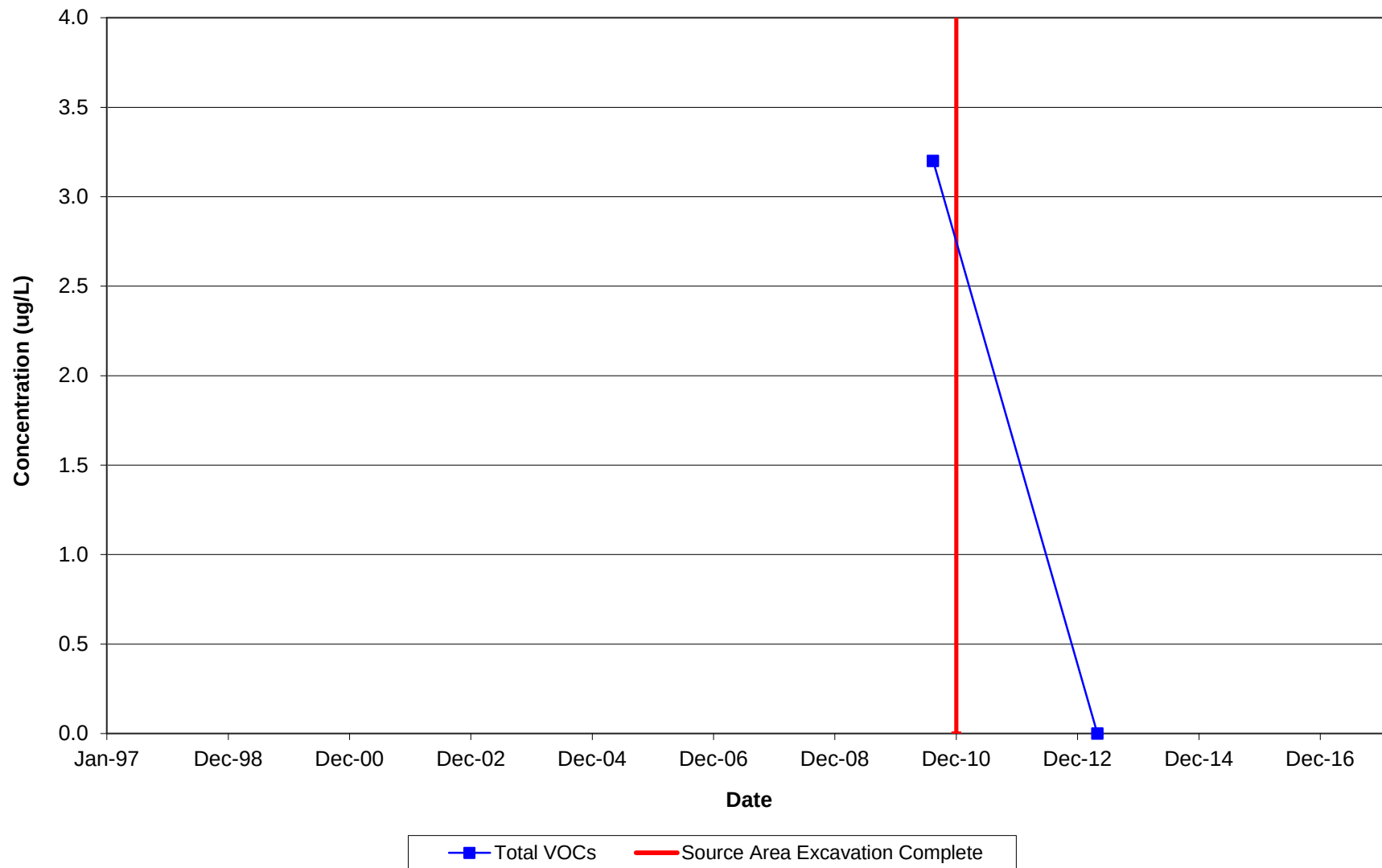
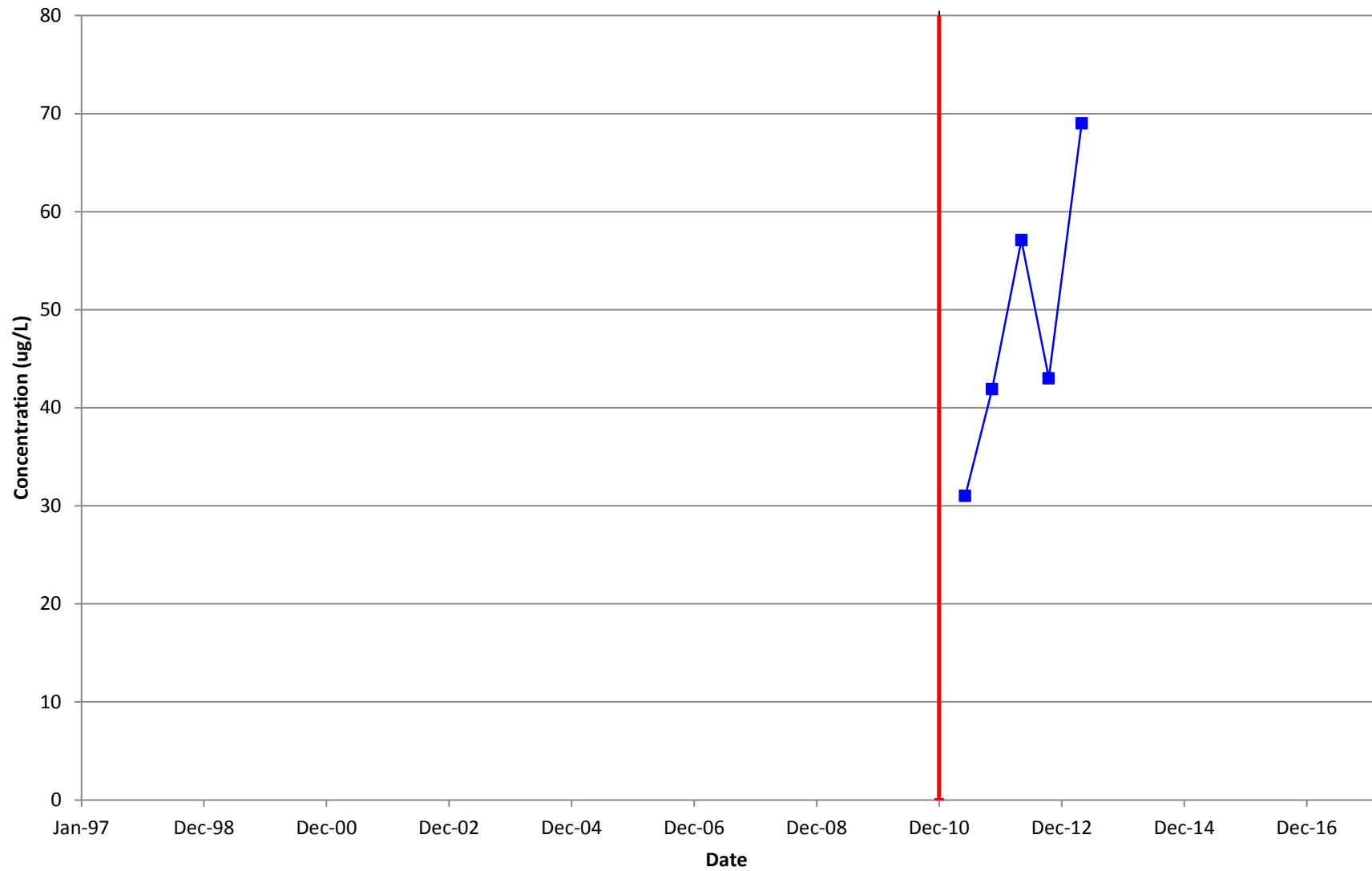


Figure 3-12 AOC9-MW19 Trend Analysis



—■— Total VOCs — Source Area Excavation Complete

4

Effectiveness of Remedy

Since baseline sampling, the center line of plume monitoring wells (MW14, MW15, and MW17) have seen a reduction in total VOC contamination concentration. A reduction of 84%, 71%, and 70%, respectively is shown from baseline to the April 2013 long-term monitoring event. MW06 has shown small fluctuations in total VOC contamination from non-detect to 6.9 µg/L since the remedial excavation, while MW05 remains non-detect, indicating a stable leading edge of the plume. The lateral wells, MW01 and MW02, and the upgradient well, MW18, have shown a decrease in concentration since baseline sampling. MW19 was not installed until after baseline sampling and has also shown an increase in total VOC contamination, from 31 µg/L to 69 µg/L since the May 2011 performance monitoring event, which is the highest total VOC concentration since its installation, but an overall decrease from 21,610 µg/L detected at TW39 at the same location during the PDI 2 investigation in 2007.

Based on the significant reductions seen in VOC concentrations in source area well MW19 and within the centerline of the contaminant plume in comparison to sample data collected prior to the remedial excavation, and the stability of the leading edge of the plume as indicated by the VOC concentrations obtained from MW06, the AOC 9 groundwater remedy has been effective during this long-term monitoring period.

No changes to the approved long-term monitoring plan are proposed at this time. Long-term monitoring will occur for two more years with annual sampling events planned for spring of 2014, and 2015. Nine wells (MW-01, MW-02, MW-05, MW-06, MW-14, MW-15, MW-17, MW-18, and MW-19) and three surface water locations (SW-01, SW-02, and SW-03) will be sampled as part of long-term monitoring. Additionally, a calcium peroxide (PermeOx) injection is planned for fall 2013.

5

References

- Ecology and Environment Engineering, P.C. (EEEEPC). 2013a. *Final April and September 2012 Performance Monitoring Data Summary Report AOC 9 Former Griffiss Air Force Base, Rome, New York*. August 2013.
- _____. 2013a. *Final May 2011 and October 2011 Performance Monitoring Data Summary Report AOC 9 Former Griffiss Air Force Base, Rome, New York*. April 2013.
- _____. 2010a. *Final Record of Decision for Area of Concern 9 (SD-62) at the Former Griffiss Air Force Base, Rome, New York*. July 2010.
- _____. 2010b. *Final Area of Concern (AOC) 9 Feasibility Study Addendum, Former Griffiss Air Force Base, Rome, New York*. March 2010.
- _____. 2010c. *Final Baseline Monitoring Data Summary Report, AOC 9 Former Griffiss Air Force Base, Rome, New York*. November 2010.
- _____. 2010d. *Final Remedial Design Work Plan and Construction Drawings for Area of Concern (AOC) 9 Former Griffiss Air Force Base, Rome, New York*, September 2010.
- _____. 2010e. *Final Work Plan Baseline, Performance, and Long-Term Monitoring at AOC 9 Former Griffiss Air Force Base, Rome, New York*. June 2010.
- Ecology and Environment, Inc. (E & E). 1998. *Draft Report for Expanded Site Investigation and Confirmatory Sampling of Areas of Interest and Drywell/Wastewater-Related Systems, Former Griffiss Air Force Base, Rome, New York*. July 1998.
- New York State Department of Environmental Conservation (NYSDEC). 2009. *Draft DER-10 Technical Guidance for Site Investigation and Remediation*. November.
- Parsons. 2013. *Remedial Action Work Plan Addendum Area of Concern 9 Injection Former Griffiss Air Force Base, Rome, New York*. August 2013.

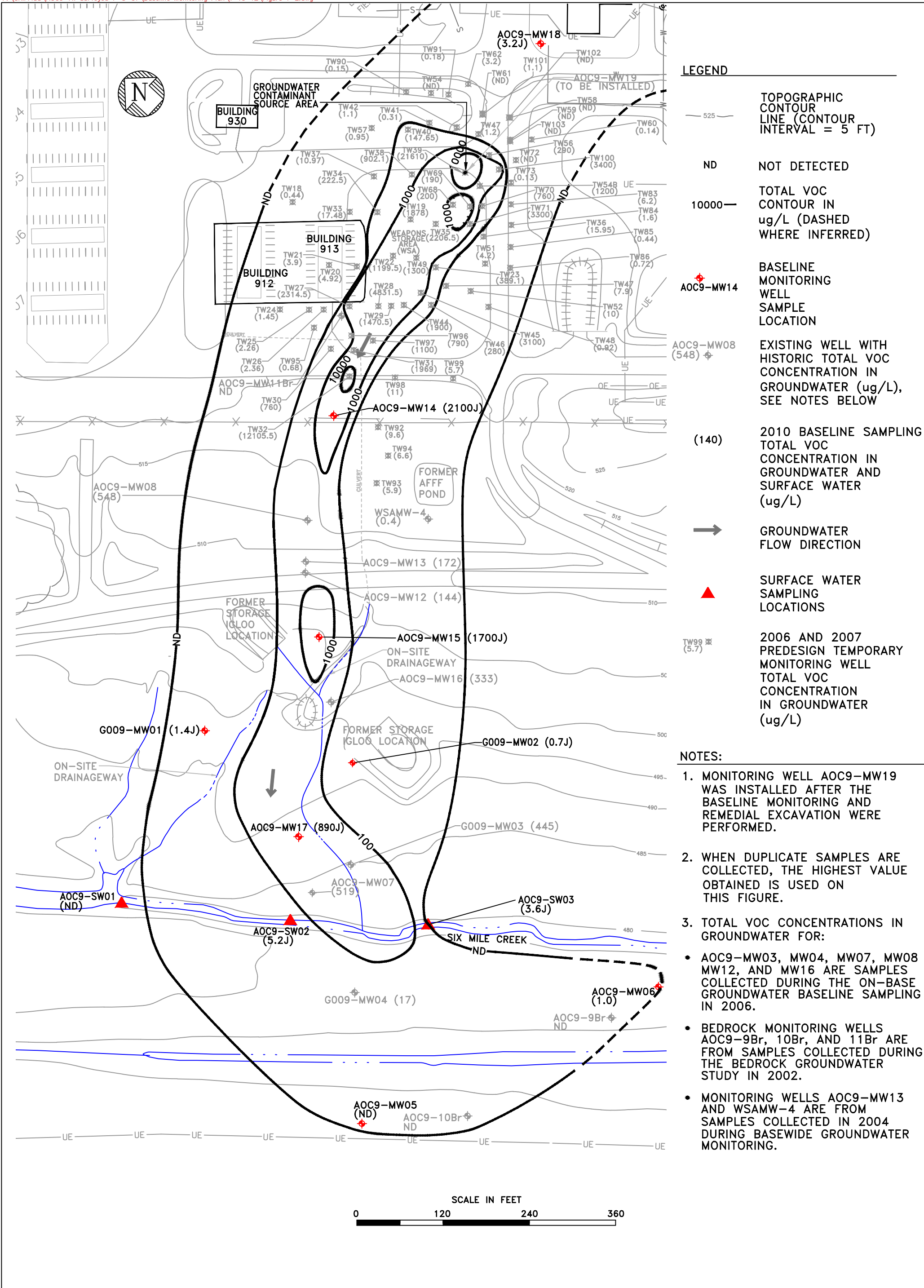


5 References

United States Environmental Protection Agency (EPA). 2006. National Primary Drinking Water Standards. January 23, 2006 update.

A

Final Performance Monitoring Data Summary Report Figures



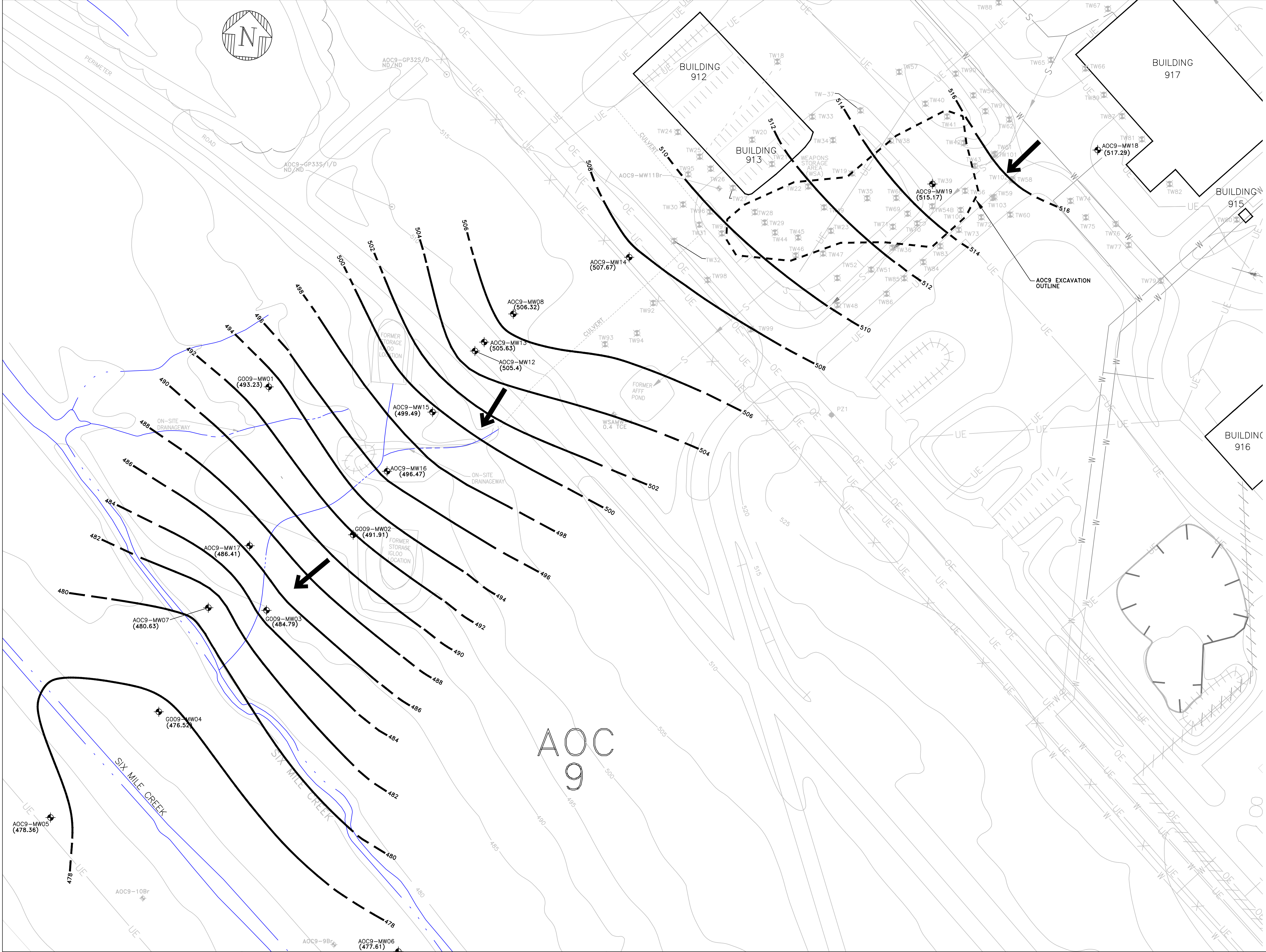
FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK



Prepared by:
**ecology and environment
engineering p.c.**

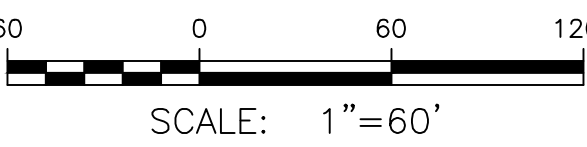
In association with:
parsons

DRAWING TITLE: AOC 9
2010 BASELINE MONITORING TOTAL
VOLATILE ORGANIC COMPOUND
CONCENTRATIONS IN GROUNDWATER
AND SURFACE WATER
FIGURE 1-2



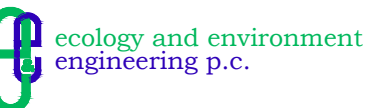
LEGEND	
	FENCE
	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
	UNDERGROUND ELECTRIC
	WATER LINE
	SANITARY SEWER
	OVERHEAD ELECTRIC
	ABANDONED UNDERGROUND ELECTRIC
	AMS
	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	DIRECTION OF GROUNDWATER FLOW
	PERMANENT MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION
	TEMPORARY MONITORING WELL LOCATION
	PIEZOMETER LOCATION
	MAY 17, 2011 GROUNDWATER ELEVATION (FEET AMSL)

NOTE:
1. GROUNDWATER ELEVATIONS WERE COLLECTED ON 5/17/2011.



GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by:



In Association with:



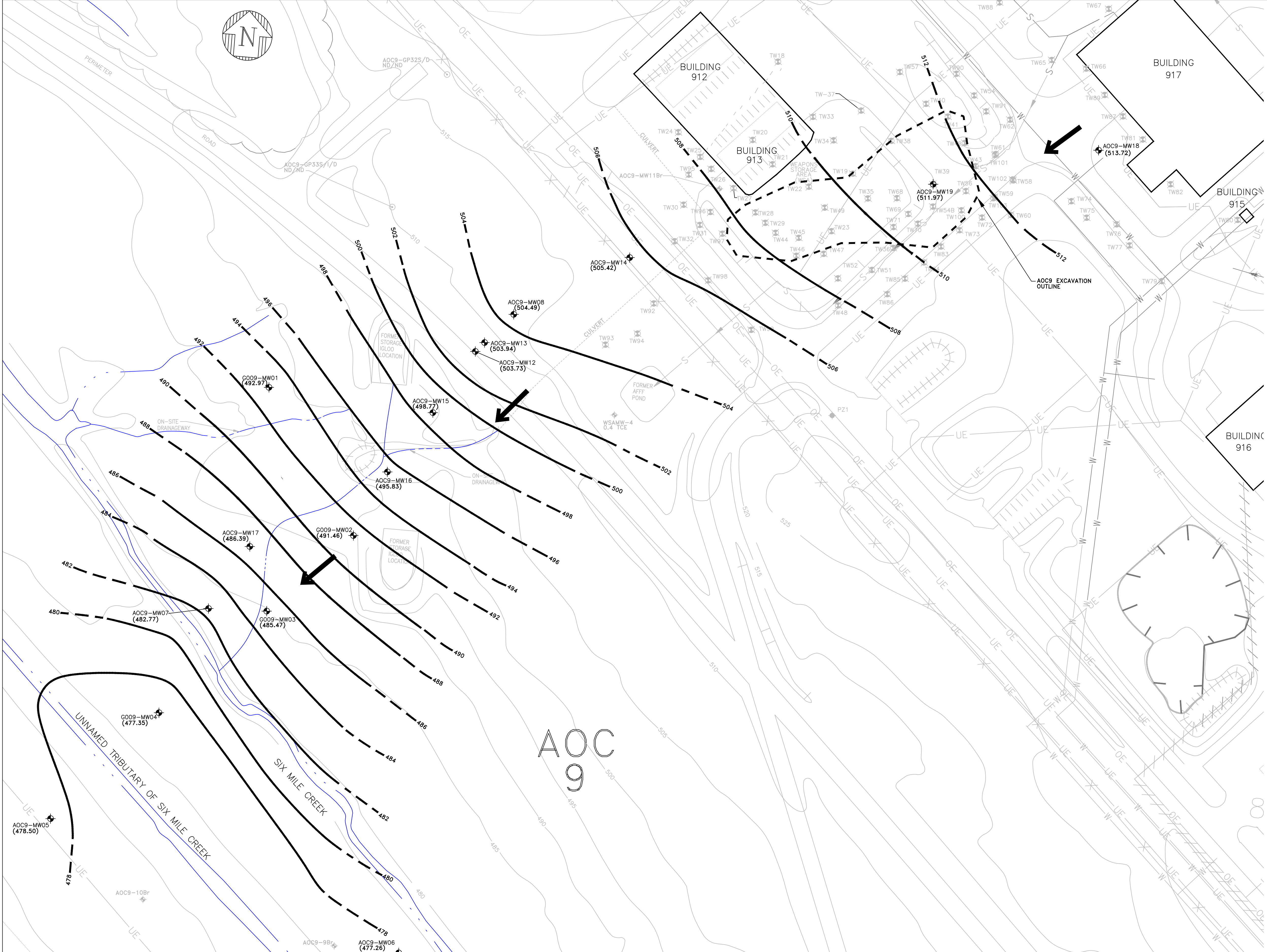
DRAWING TITLE:

AOC 9: GROUNDWATER
CONTOUR MAP
MAY 17, 2011

FIGURE 2-2a

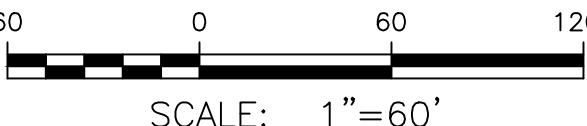






LEGEND	
	FENCE
	TOPOGRAPHIC CONTOUR LINE (CONTOUR INTERVAL = 5 FT)
	UNDERGROUND ELECTRIC
	WATER LINE
	SANITARY SEWER
	OVERHEAD ELECTRIC
	ABANDONED UNDERGROUND ELECTRIC
	AMS
	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	DIRECTION OF GROUNDWATER FLOW
	PERMANENT MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION
	TEMPORARY MONITORING WELL LOCATION
	PIEZOMETER LOCATION
	SEPTEMBER 25, 2012 GROUNDWATER ELEVATION (FEET AMSL)

NOTE:
1. GROUNDWATER ELEVATIONS WERE COLLECTED ON 9/25/2012.



GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK

Prepared by:

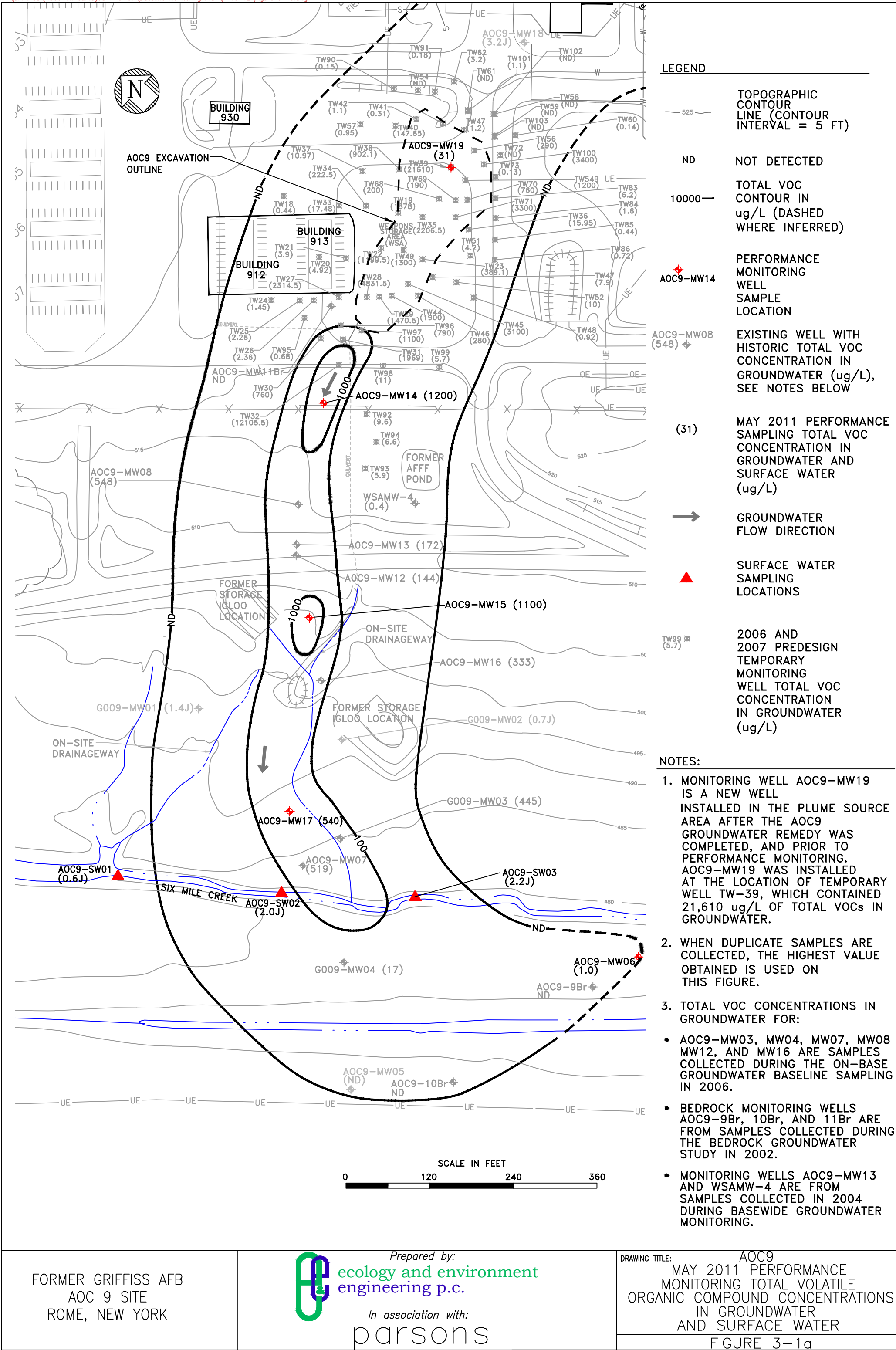


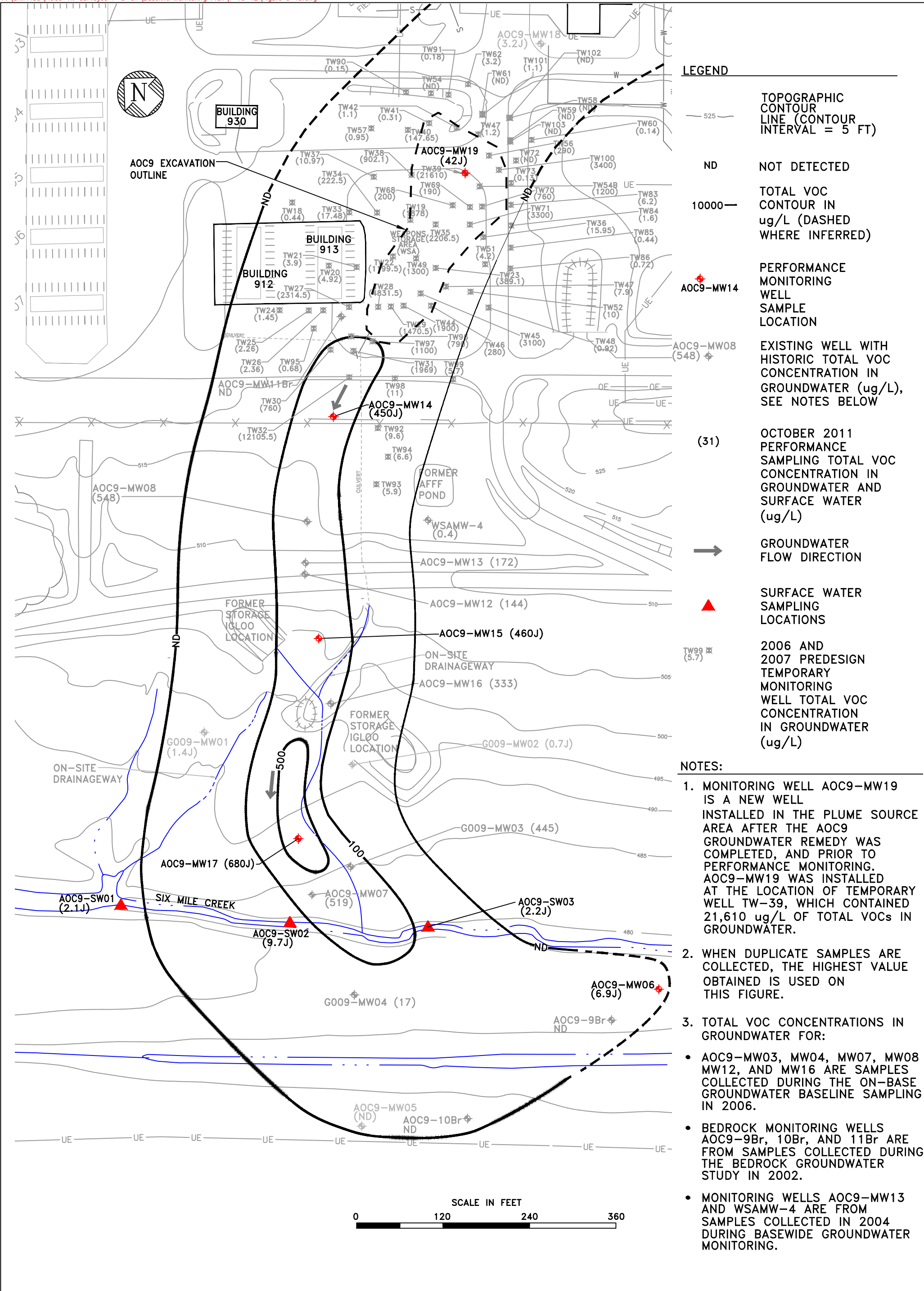
In Association with:



DRAWING TITLE:
AOC 9: GROUNDWATER
CONTOUR MAP
SEPTEMBER 25, 2012

FIGURE 2-2b



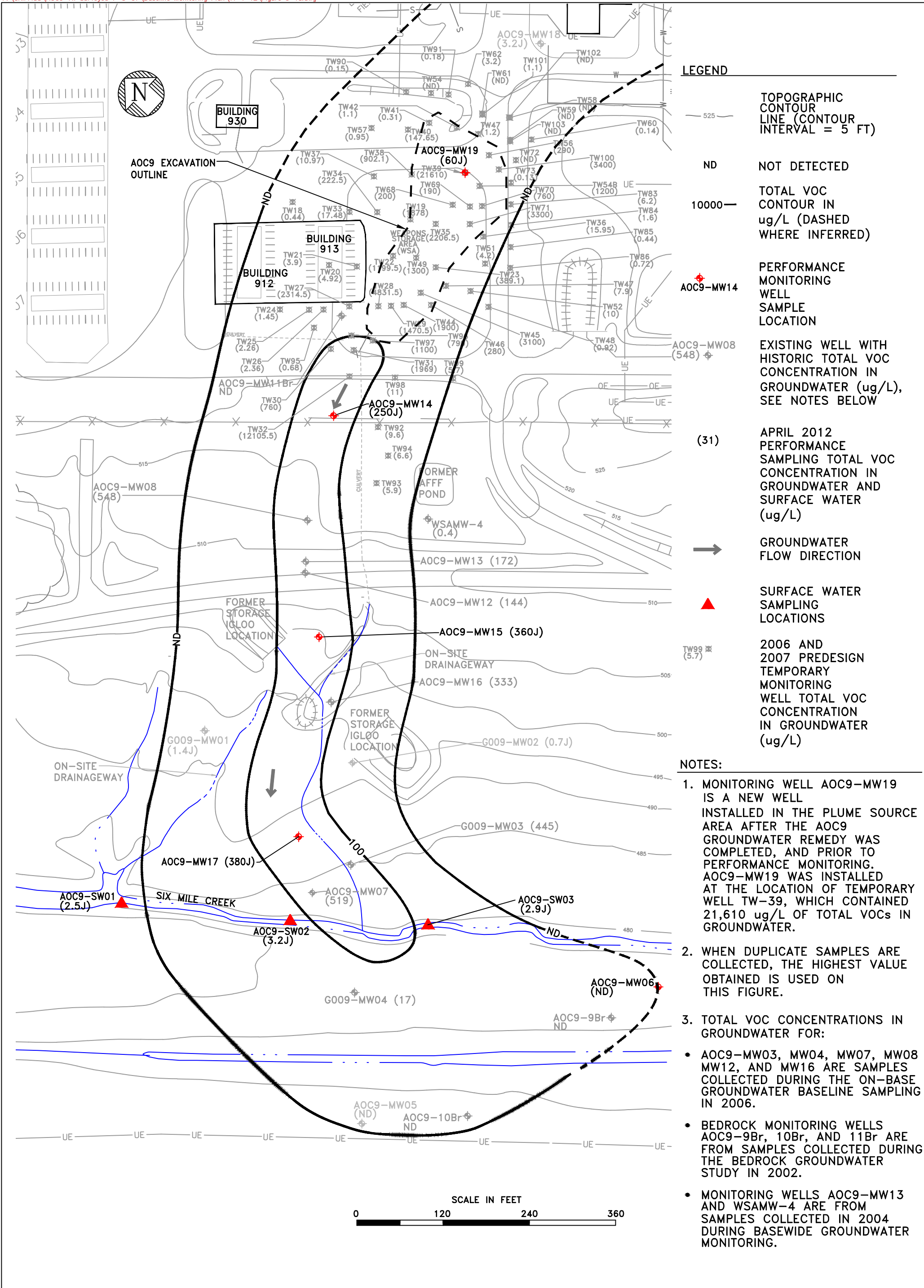


FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK



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**ecology and environment
engineering p.c.**
In association with:
parsons

DRAWING TITLE: AOC9
OCTOBER 2011 PERFORMANCE
MONITORING TOTAL VOLATILE
ORGANIC COMPOUND CONCENTRATIONS
IN GROUNDWATER
AND SURFACE WATER
FIGURE 3-1b



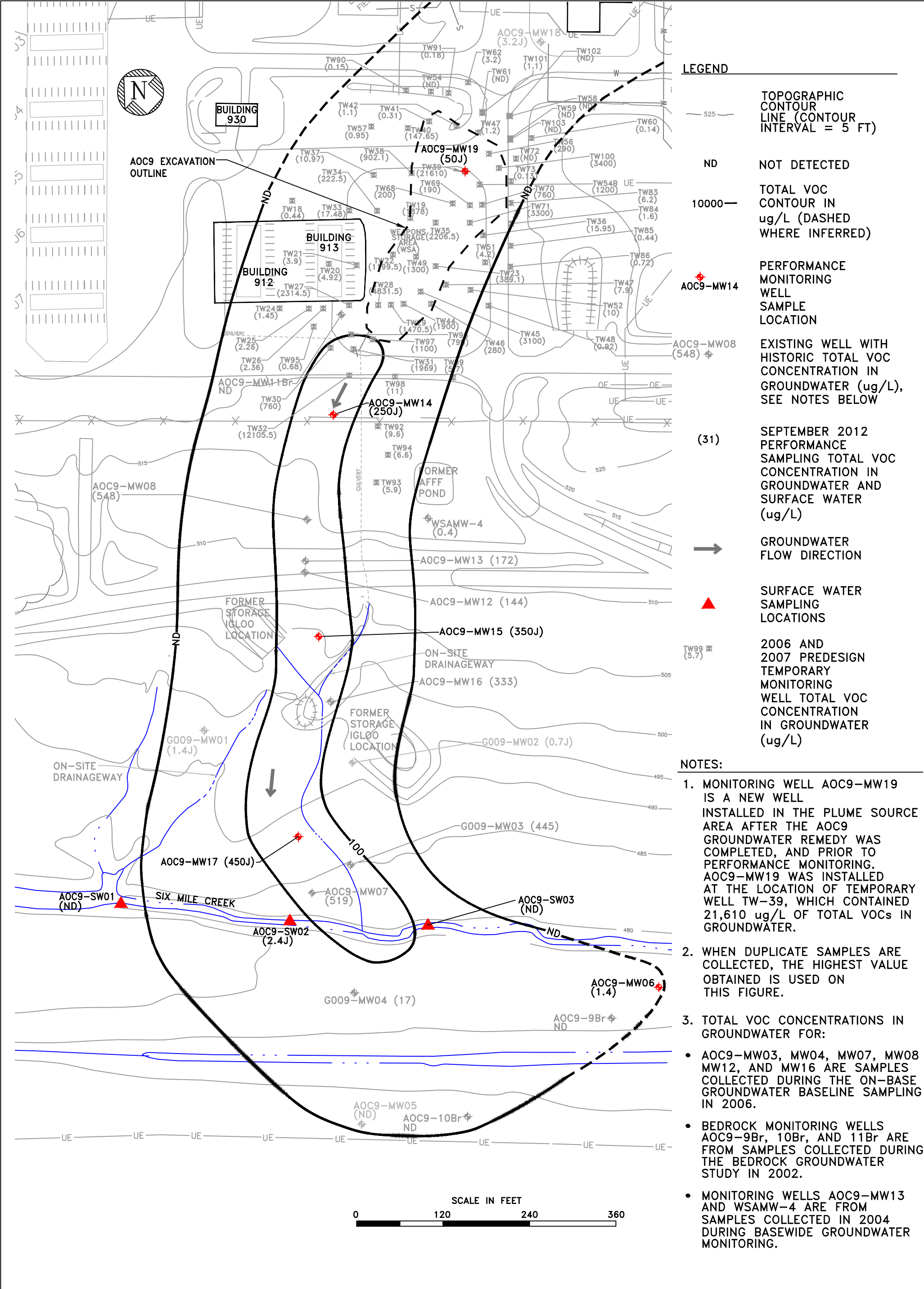
FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK



Prepared by:
**ecology and environment
& engineering p.c.**

In association with:
parsons

DRAWING TITLE: AOC9
APRIL 2012 PERFORMANCE
MONITORING TOTAL VOLATILE
ORGANIC COMPOUND CONCENTRATIONS
IN GROUNDWATER
AND SURFACE WATER
FIGURE 3-1a



FORMER GRIFFISS AFB
AOC 9 SITE
ROME, NEW YORK



Prepared by:
**ecology and environment
engineering p.c.**
In association with:
parsons

DRAWING TITLE: AOC9
SEPTEMBER 2012 PERFORMANCE
MONITORING TOTAL VOLATILE
ORGANIC COMPOUND CONCENTRATIONS
IN GROUNDWATER
AND SURFACE WATER
FIGURE 3-1b

B

Daily Activity Forms

Figure 3-5 Daily Activity Summary Form

Daily Activity Summary	
Date: Monday, 4/8/13	Report No.: 001
Project Name: AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB	Weather: See page 1.
Field Tests Performed (Sampling, Field Screening, Chemical Testing, etc.)	
Screen wells and purge water with PID. Sampled surface water locations (SW01, SW02, and SW03). Sampled permanent well MW05. Measured pH, temp, cond, turbidity, and ORP of all samples and purge water. Measure DO of groundwater.	
Work Delays (Due to Weather, Maintenance, Breakdowns, Waiting for Decisions)	
None.	
Problems Encountered and Deviations From Work Plan	
No deviations from work plan. Had trouble establishing a flow rate at MW05 that would not cause a water level drawdown of more than 0.3 ft. - Flow rate was eventually established.	
Written and Verbal Instruction by the Government	
None.	
Safety Issues	
None.	
Planned Activities for Next Work Day	
Continue with purging and sampling of permanent wells. (8 locations left to sample).	
Remarks: (Visitors, Completion of Field Work at an AOC, etc.)	
Water levels and surface water sampling complete. Beaverdam in location of SW03 has been removed. A new dam is being formed upstream of SW02.	
Site Manager: <i>[Signature]</i>	Date: 4/8/13

Figure 3-5 Daily Activity Summary Form

Figure 3-5 Daily Activity Summary Form



Daily Activity Summary	
Date: <u>Tuesday, 4/9/13</u>	Report No.: <u>002</u>
Project Name: <u>AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB</u>	Weather: <u>see page 1</u>
Field Tests Performed (Sampling, Field Screening, Chemical Testing, etc.)	
<u>Screen wells and purge water with PID. Sampled permanent wells MW06, MW02, MW01, MW17, MW15, and MW14. Measured pH, temp, conductivity, turbidity, DO, ORP of all samples and purge water.</u>	
Work Delays (Due to Weather, Maintenance, Breakdowns, Waiting for Decisions)	
<u>Approximate 1/2 hour delay to change out ball valve and screen in MW-15 due to air in lines and pump not functioning properly.</u>	
Problems Encountered and Deviations From Work Plan	
<u>MW-15 pump not functioning properly (lower ball valve and screened changed out). MW-14 lower ball valve was stuck, had to pull pump and give tap to release, caused no delay. No deviations from work plan for either well.</u>	
Written and Verbal Instruction by the Government	
<u>None.</u>	
Safety Issues	
<u>Light rain today could increase slips, trips, and falls.</u>	
Planned Activities for Next Work Day	
<u>continue with purging and sampling of permanent wells (2 locations remain to be sampled). Ship samples to lab via FedEx.</u>	
Remarks: (Visitors, Completion of Field Work at an AOC, etc.)	
<u>None.</u>	
Site Manager: <u>[Signature]</u>	Date: <u>4/9/13</u>

Figure 3-5 Daily Activity Summary Form

3. Field Methodology

[illegible]

Figure 3-5 Daily Activity Summary Form

Daily Activity Summary	
Date: <u>Wednesday, 4/10/13</u>	Report No.: <u>003</u>
Project Name: <u>AOC 9 Baseline, Performance, and Long-Term Monitoring, Former Griffiss AFB</u>	Weather: <u>See page 1</u>
Field Tests Performed (Sampling, Field Screening, Chemical Testing, etc.) <u>Screen wells and purge water with PID. Sampled permanent wells MW18 and MW19. Measured pH, temp, cond., turbidity, DO, and ORP of all samples and purge water.</u>	
Work Delays (Due to Weather, Maintenance, Breakdowns, Waiting for Decisions) <u>None</u>	
Problems Encountered and Deviations From Work Plan <u>None</u>	
Written and Verbal Instruction by the Government <u>None</u>	
Safety Issues <u>None</u>	
Planned Activities for Next Work Day <u>None</u>	
Remarks: (Visitors, Completion of Field Work at an AOC, etc.) <u>All sampling complete. Samples shipped to Katahdin via FedEx.</u>	
Site Manager: <u>[Signature]</u>	Date: <u>4/10/13</u>

Figure 3-5 Daily Activity Summary Form

C

Sampling Forms

Initial PID Reading (ppm): 0.0

Casing Type: PVC

AKS

ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

9.0
-1.85
7.15 x .163 = 1.17 = 1 well Vol
x3 = 3.51 = 3 Vol

1

Groundwater Sampling Form

Project: AOC 9 Baseline, Performance, Long Term Monitoring

Site: AOC 9-Former Griffiss Air Force Base

Well No.: MW-05

Sample Date: 4/8/13

Sampling Device: QED T1200 bladder pump

Well Depth (feet TOIC): 14.0

Screen Interval (feet BGS): 4-14.0

Casing Inner Diameter (inches): 2.0

Initial PID Reading (ppm): 0.0

Sample ID: AOC9-MW05LTM040313

Sample Time: 1550

Sample Tubing: QED teflon-lined polyethylene

Sample Turbidity (NTUs): 3.15

Initial Water Level (Feet TOIC): 5.50

Final Water Level (feet TOIC): 5.90

Casing Type: PVC

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Flow Rate (LPM)	Purge Volume (gallons)	Comments
1415	6.87	6.3	9.1	10.17	5.92	224	5.50	—	0	
1420	6.84	5.7	8.8	18.8	5.79	197.6	6.20	.34/min	—	adjust flow rate
1435	6.91	6.4	4.6	9.80	3.22	168.5	5.95	220 mL/min	1.5	see logbook for notes.
1450	6.87	6.7	7.4	6.22	2.32	166.4	6.10	"	1.8	
1455	6.59	6.4	101.1	6.25	4.22	172.0	6.22	"	2.1	
1500	6.84	6.5	87.8	3.77	2.59	172.5	6.23	"	2.4	
1505	6.90	8.4	94.1	3.04	2.65	167.9	6.10	"	2.7	
1510	6.94	8.3	99.7	2.99	2.15	178.8	6.01	"	3.0	
1515	6.94	8.7	99.8	2.87	2.00	163.1	6.01	"	3.3	
1520	6.93	8.4	98.3	2.40	2.23	169.0	6.01	"	3.6	
1525	6.96	9.2	190.9	2.11	1.74	166.5	6.01	"	3.9	Adjust lines to flow cell, insert connected backwards.
1530	6.88	8.8	186.0	2.78	1.08	168.5	6.01	"	4.2	
1535	6.89	8.6	187.4	2.97	0.99	166.5	6.01	"	4.5	
1540	6.86	8.6	186.3	2.63	1.01	167.2	6.01	"	4.8	
<i>[Signature]</i> 4/8/13										

Key:

°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute

mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.

ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

$$\begin{array}{r} 14.0 \\ - 5.50 \\ \hline \end{array}$$

$$8.5 \times .163 = 1.4 = 1 \text{ well volume}$$

$$\times 3 = 4.2$$

Initial PID Reading (ppm): 2.0

Casing Type: PVC

~~Mr. Original 4/2/13~~

ORP = Redox potential
 ppm = Parts per million.
 PVC = Polyvinyl chloride.
 TOIC = Top of inner (PVC) casing.

$$\begin{array}{r} 14.2 \\ - 6.74 \\ \hline 7.46 \end{array} \times .163 = 1.22 = 1 \text{ well vol.}$$

$$3.66 = 3 \text{ vol.}$$

Initial PID Reading (ppm): 0.0

Sample ID: AD09-MW14/LTM040913/AD09-MW14/LTM040913 Dupe:
Sample Time: 1755
Sample Tubing: OED teflon-lined polyethylene
Sample Turbidity (NTUs): 6.77
Initial Water Level (Feet TOIC): 94.59
Final Water Level (feet TOIC): 14.70
Casing Type: PVC

[illegible]

TOIC = Top of inner (PVC)

TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form

24.0
- 14.59

$$9.41 \times 163 = 1.53 = 1 \text{ well vol.}$$

$$X_3 = 4.59 = 3 \text{ vol.}$$

Initial PID Reading (ppm): 0.0

DUPE:
Sample ID: AOC9-MW15/LTM040913 / AOC9-MW15/D/LTM040913
Sample Time: 1610
Sample Tubing: QED teflon-lined polyethylene
Sample Turbidity (NTUs): 2.69
Initial Water Level (Feet TOIC): 2.84
Final Water Level (feet TOIC): 3.02
Casing Type: PVC

[illegible]

TOIC = Top of inner (PVC)

TOIC = Top of inner (PVC) casing.

Figure 3-4 Groundwater Sampling Form.

14.0
- 2.84

$$11.14 \times .163 = 1.82 = 1 \text{ well vol.}$$
$$x3 = 5.46 = 3 \text{ vol.}$$

Initial PID Reading (ppm): 0.0

Casing Type: PVC

Revised 4/9/13

TOIC = Top of inner (PVC) casing.

$$10.45 \times .163 = 1.70 = 1 \text{ well vol}$$

$$1.70 \times 3 = 5.1 = 3 \text{ vol.}$$

Initial PID Reading (ppm): 0.0

Casing Type: PVC

ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Page 1 of 2

Initial PID Reading (ppm): 0.0

Casing Type: PVC

M. S. G. 4/10/13

TOIC = Top of inner (PVC) casing.

$$8.79 \times 1.63 = 1.43 = 1 \text{ well vol}$$
$$\times 3 = 4.29 = 3 \text{ vol.}$$

Project: AOC 9 Baseline, Performance, Long Term Monitoring

Well No.: NA

Sample Date: 6/8/13

Sampling Device: clean jar by hand

Well Depth (feet TOIC): NA

Screen Interval (feet BGS): NA

Casing Inner Diameter (inches):NA

Initial PID Reading (ppm): NA

Sample ID: AOC9-SWD1LTMD40B13

Sample Time: 1640

Sample Tubing: NA

Sample Turbidity (NTUs): 2.00

Initial Water Level (Feet TOIC):NA

Final Water Level (feet TOIC):NA

Casing Type: NA

~~M. R. J. 4/8/13~~

°C = Degrees centigrade.
BGS = Below ground surface.
DO = Dissolved Oxygen
LPM = Liters per minute

mg/L = Milligrams per liter
mS/cm = microSiemens per centimeter
NTU = Nephelometric turbidity unit.
NTU = Nephelometric turbidity unit.

ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

1

Project: AOC 9 Baseline, Performance, Long Term Monitoring

Well No.: NA

Sample Date: 4/9/13

Sampling Device: clean jar by hand

Well Depth (feet TOIC): NA

Screen Interval (feet BGS): NA

Casing Inner Diameter (inches):NA

Initial PID Reading (ppm): NA

Sample ID: A069-SW02LTM040813

Sample Time: 11030

Sample Tubing: NA

Sample Turbidity (NTUs): 2.27

Initial Water Level (Feet TOIC):NA

Final Water Level (feet TOIC):NA

Casing Type: NA

~~M. S. G. J. M.~~

Key:

°C = Degrees centigrade.

BGS = Below ground surface.

DO = Dissolved Oxygen

LPM = Liters per minute

mg/L = Milligrams per liter

mS/cm = microSiemens per centimeter

NTU = Nephelometric turbidity unit.

NTU = Nephelometric turbidity unit.

ORP = Redox potential

ppm = Parts per million.

PVC = Polyvinyl chloride.

TOIC = Top of inner (PVC) casing.

~~4/8/13~~

Initial PID Reading (ppm): NA

Casing Type: NA

M. P. Journal

ORP = Redox potential
ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Page 1 of 1

D

Photolog

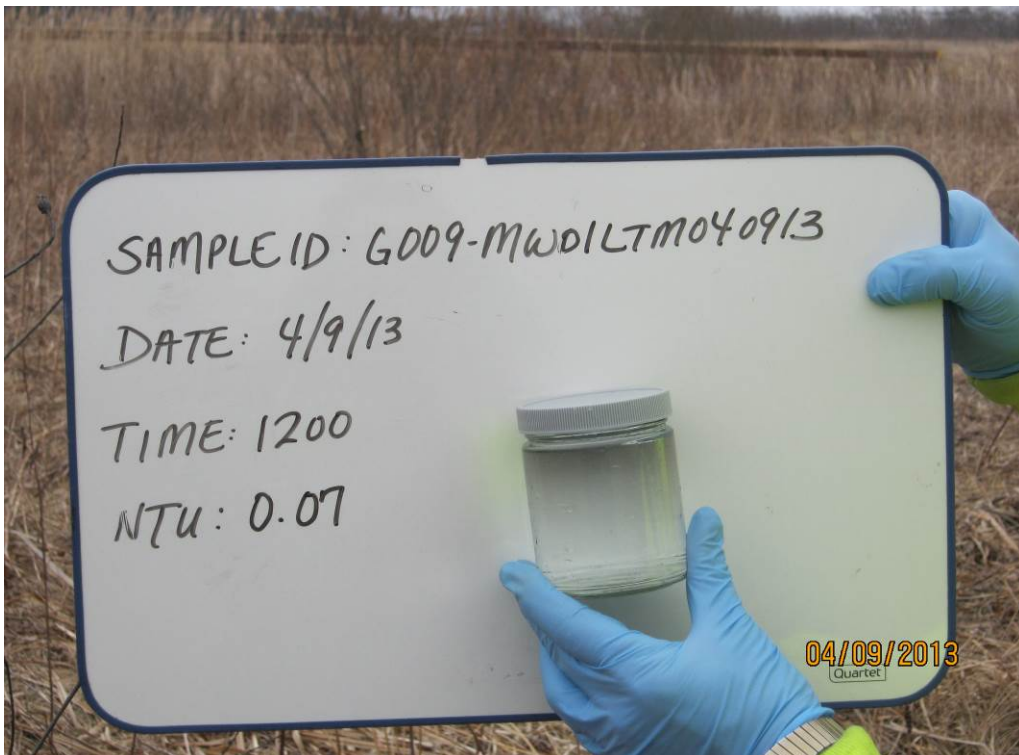


Photo No.:	IMG_0018	Description: Sample: G009-MW01LTM040913
Date:	4/9/2013	
Photographer:	M. Fronckowiak	

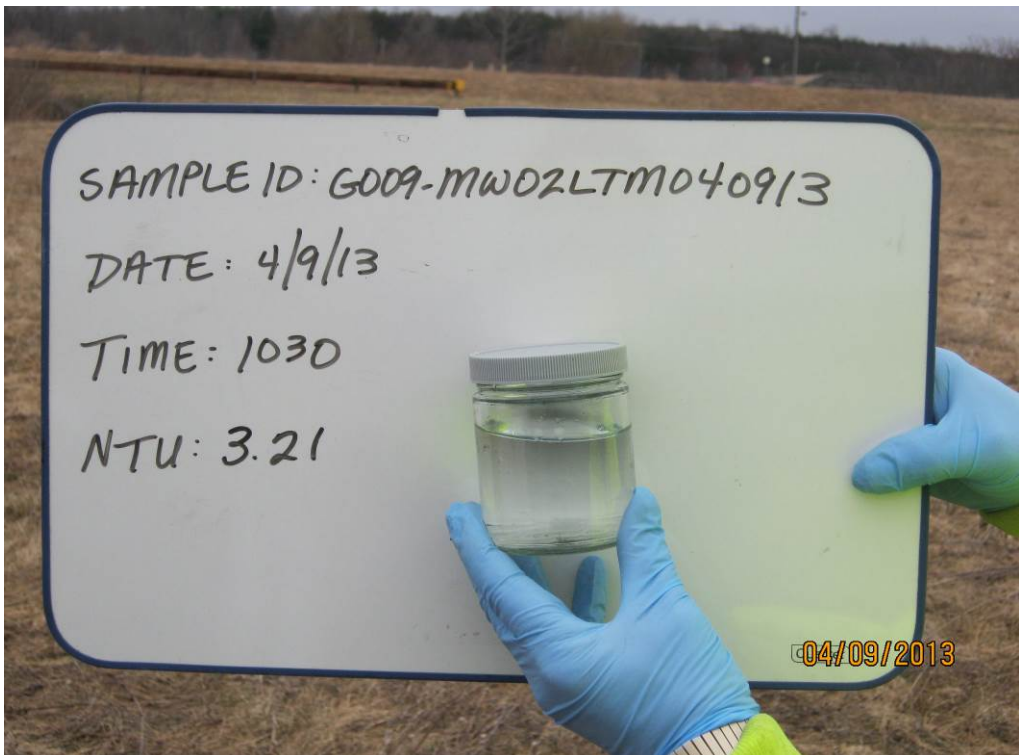


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Date:	4/9/2013	
Photographer:	M. Fronckowiak	

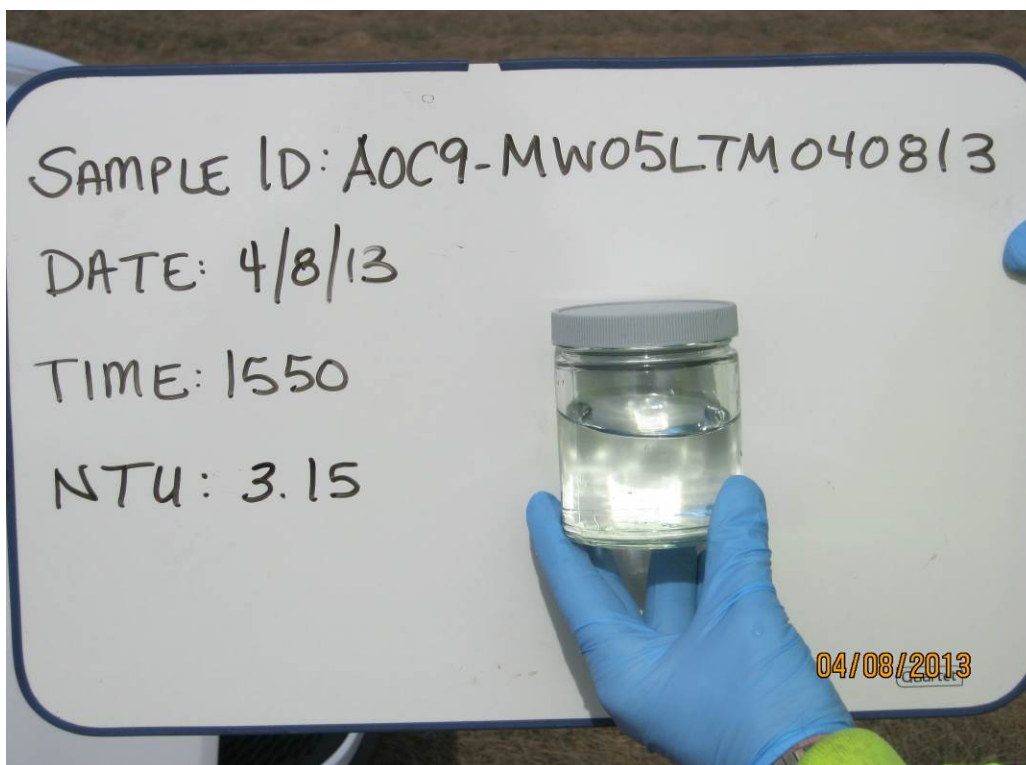


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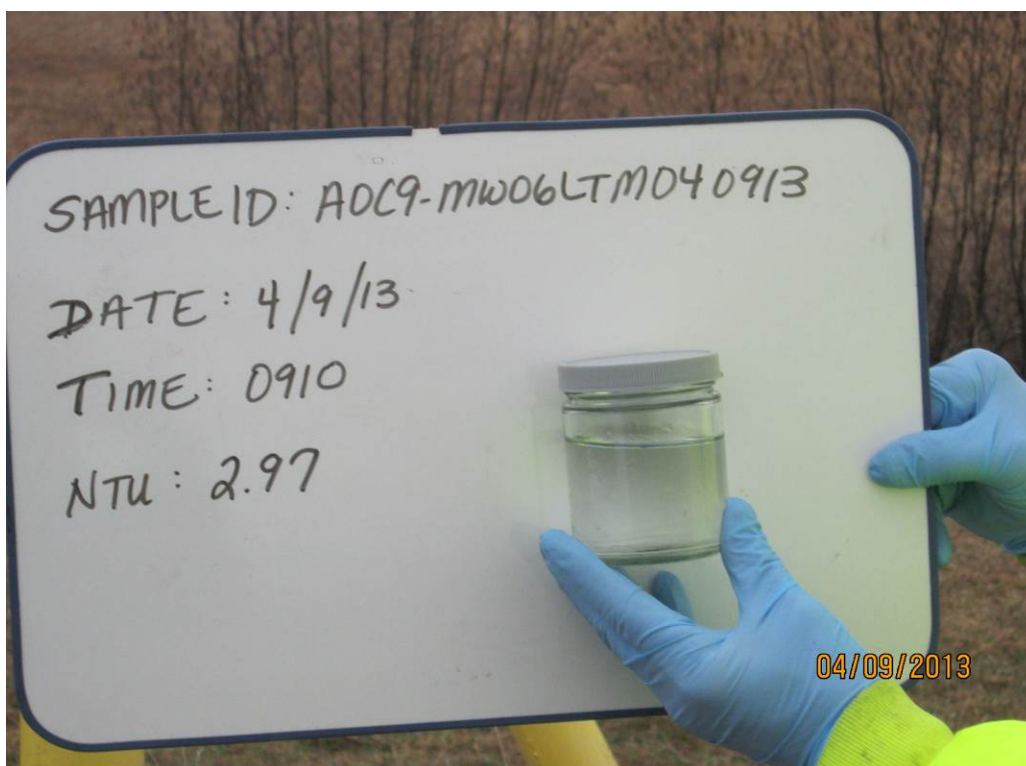


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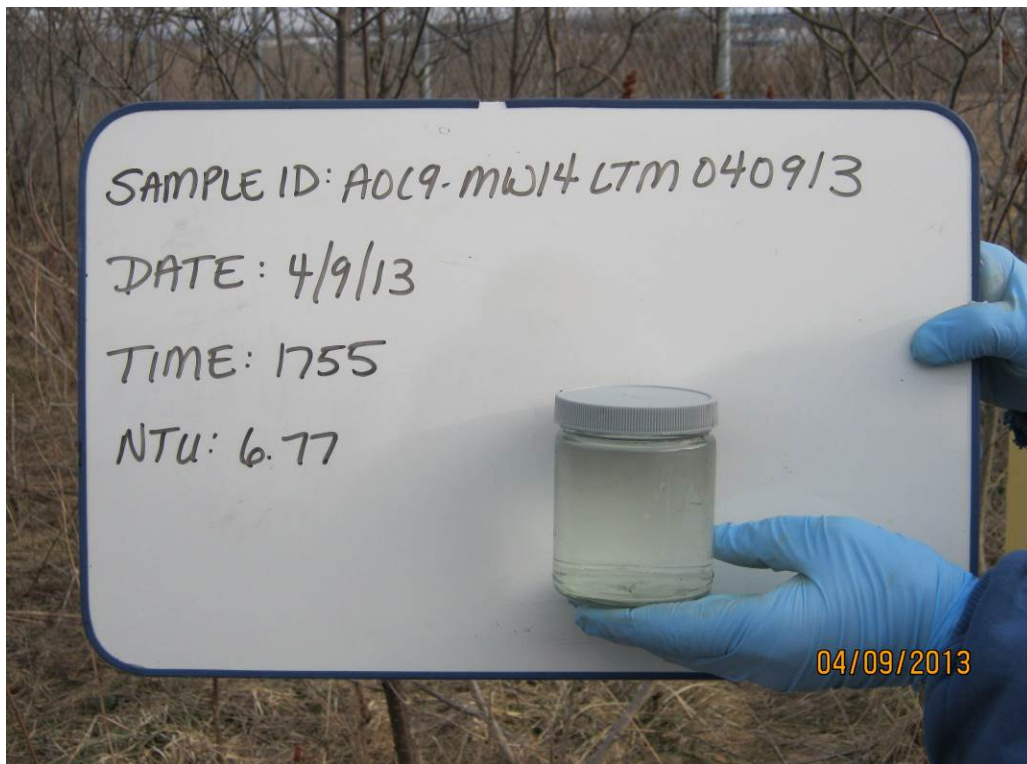


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Date:	4/9/2013	
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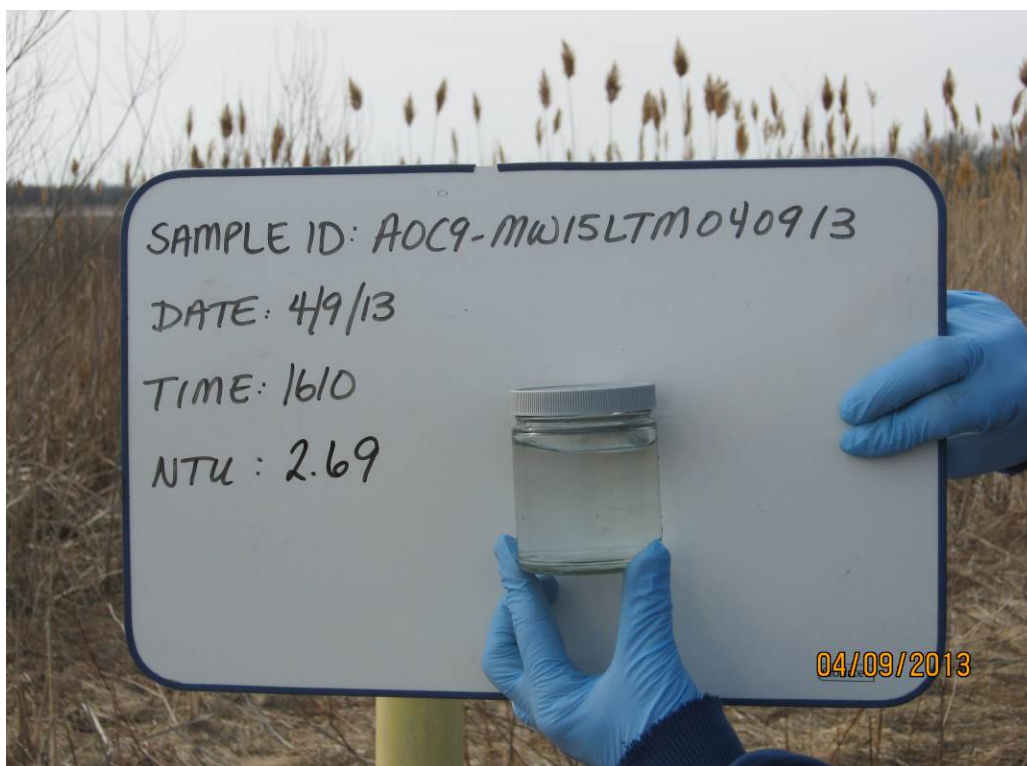


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Date:	4/9/2013	
Photographer:	M. Fronckowiak	

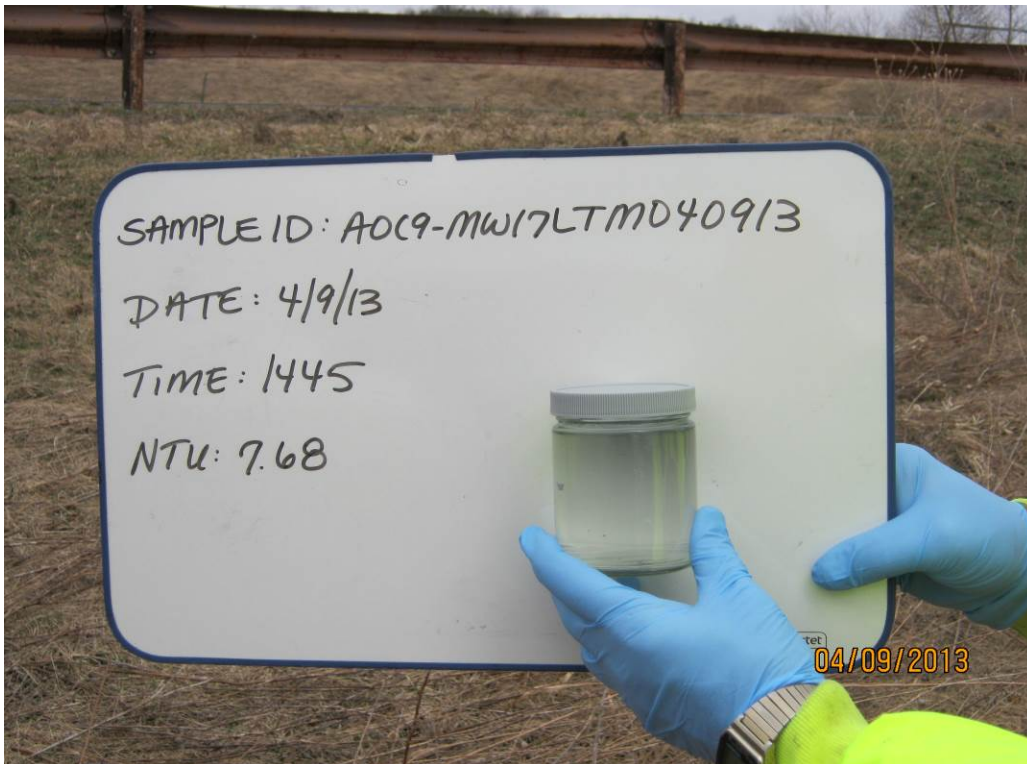


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Date:	4/9/2013	Sample: AOC9-MW17LTM040913
Photographer:	M. Fronckowiak	

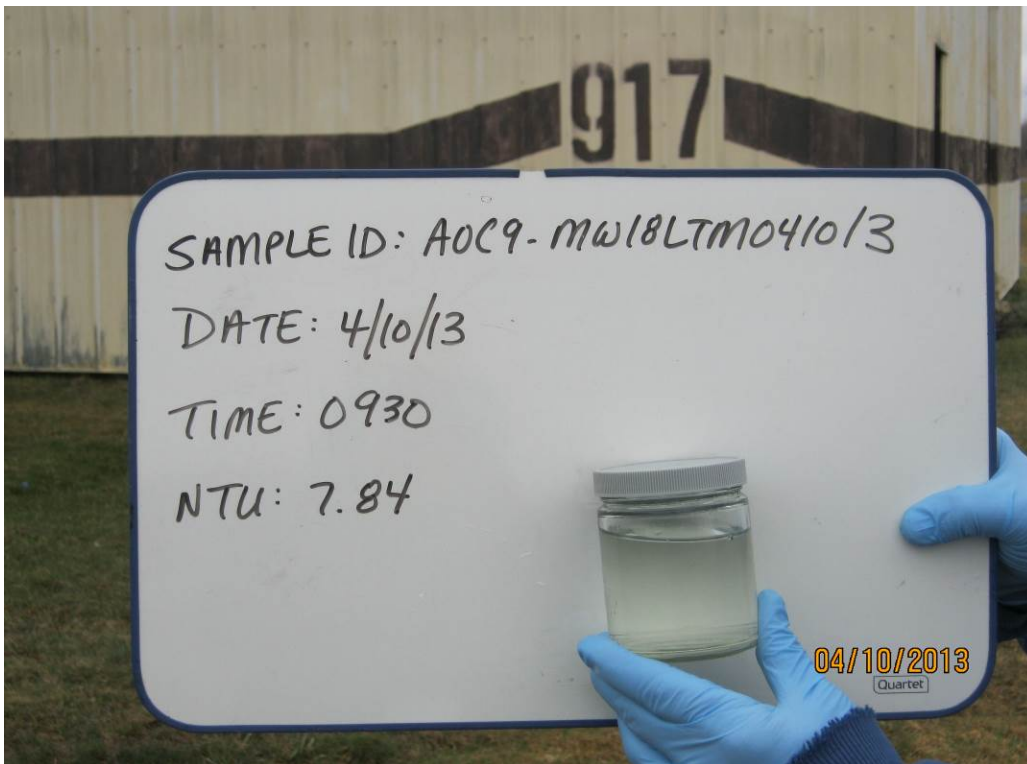


Photo No.:	IMG 0027	Description:
Date:	4/10/2013	Sample: AOC9-MW18LTM041013
Photographer:	M. Fronckowiak	

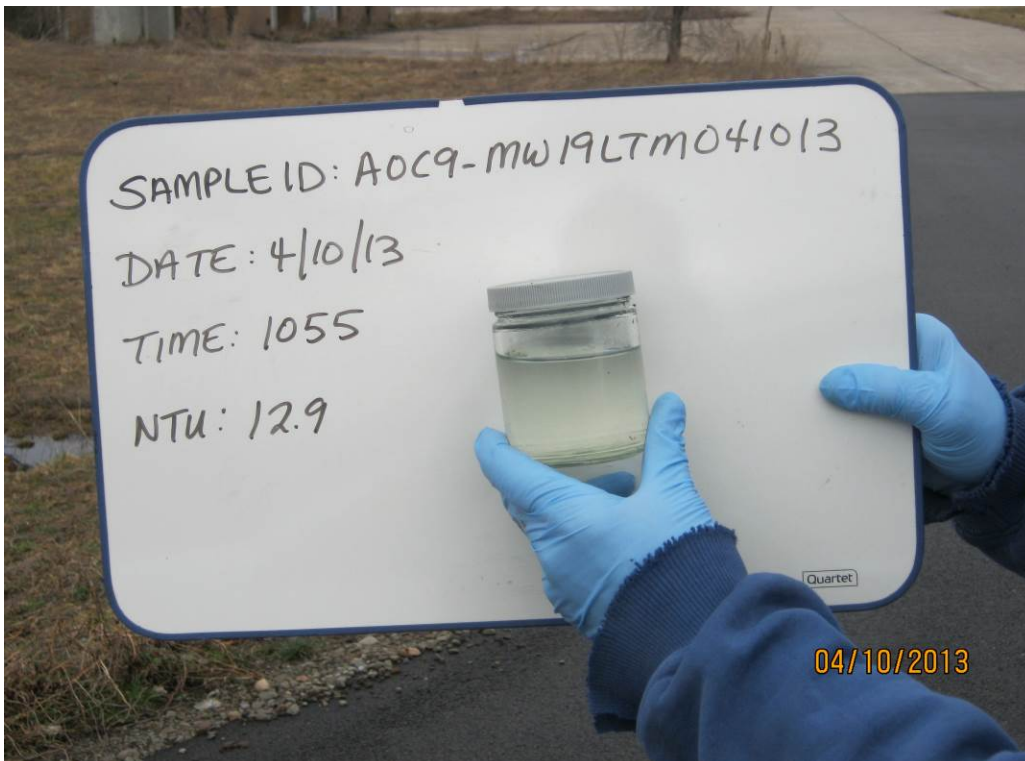


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Date:	4/10/2013	Sample: AOC9-MW19LTM041013
Photographer:	M. Fronckowiak	

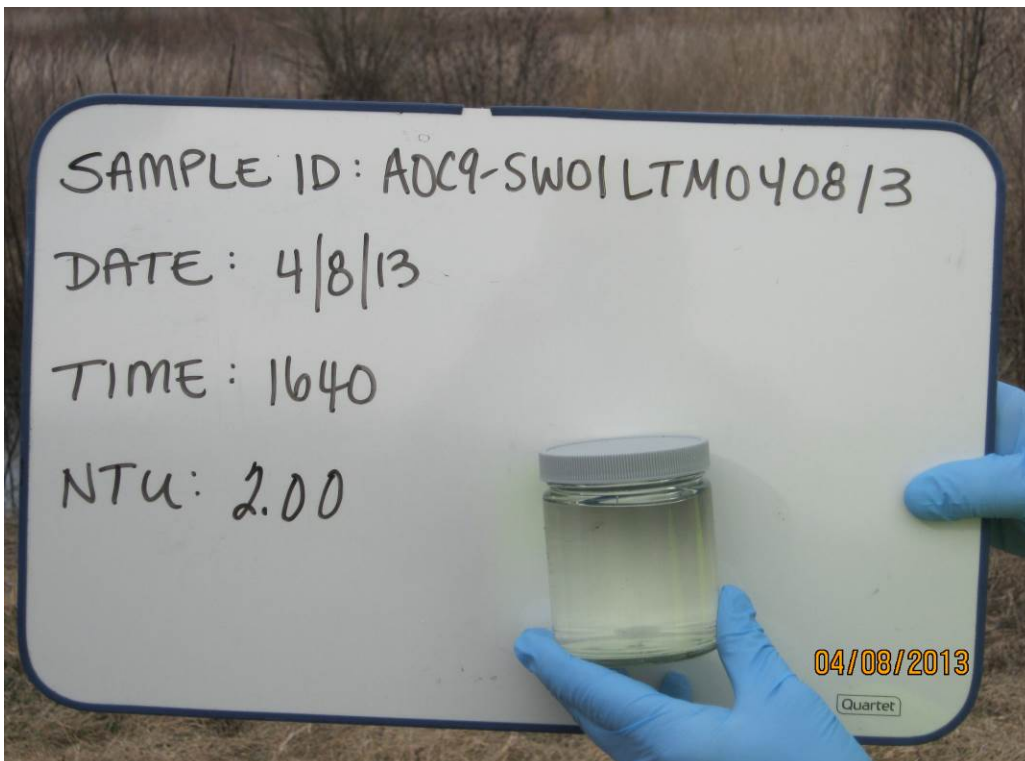


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Date:	4/8/2013	Sample: AOC9-SW01LTM040813
Photographer:	M. Fronckowiak	

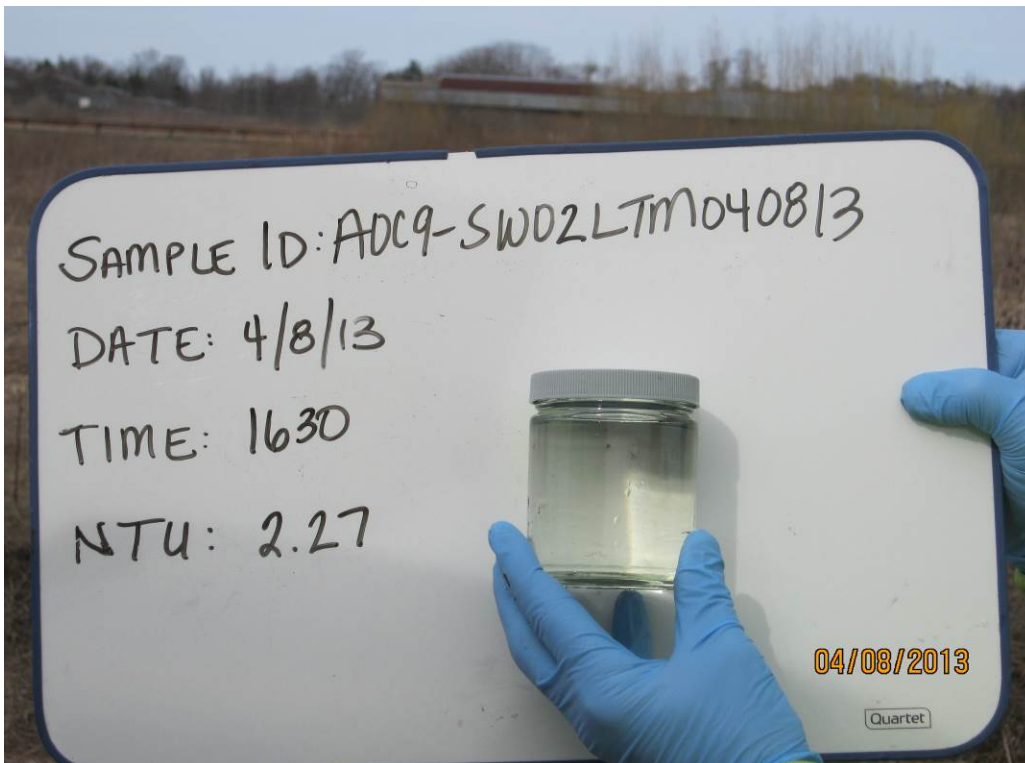


Photo No.:	IMG 0009	Description: Sample: AOC9-SW02LTM040813
Date:	4/8/2013	
Photographer:	M. Fronckowiak	

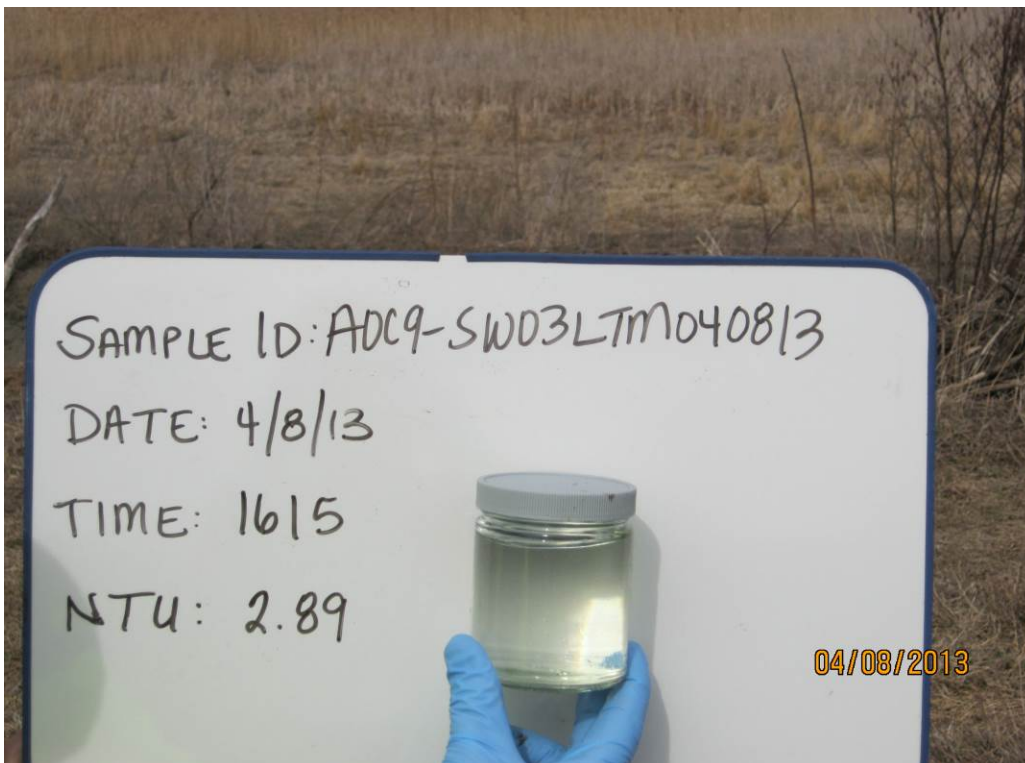


Photo No.:	IMG 0005	Description: Sample: AOC9-SW03LTM040813
Date:	4/08/2013	
Photographer:	M. Fronckowiak	



Well Status Log and Maintenance Summary

**GRIFFISS AFB AOC 9 NETWORK WELLS
STATUS APRIL 2013**

AOC 9													
Well Name	Well Type	Screened Groundwater Zone	Screen Interval (ft MSL)	Well Condition							Comments	Actions Planned	Actions Completed / Date Completed
				Bollards or flush mount	Bollard Condition	Well Plate / Well Identification	Pad Condition	Lock	Well Cap	Dedicated Pump Condition			
G009-MW01	Stick Up	Shallow	4.0-9.0 ft bgs	bollards	F-G	G	NA	G	G	G	Bollards starting to lean. Pad covered by overgrown vegetation.	Remove vegetation from well pad.	Yes/May 1-2, 2013
G009-MW02	Stick Up	Shallow	4.0-9.0 ft bgs	bollards	P	G	G	G	G	G	2 of 3 bollards are fallen.	Fix and paint bollards.	Yes/May 1-2, 2013
G009-MW03	Stick Up	Shallow	4.0-9.0 ft bgs	bollards	F	G	G	G	G	TBD	1 bollard missing.	None at this time. Continue to monitor during future sampling events.	NA
G009-MW04	Stick Up	Shallow	6.7-16.7 ft bgs	bollards	P	G	P	F	G	TBD	2 of 3 bollards are fallen. Pad cracked and ground missing below. Need new lock.	Fix and paint bollards.	Yes/May 1-2, 2013
AOC9-MW05	Flush Mount	Shallow	4.0-14.0 ft bgs	flush mount	NA	NA	G	NA	G	G	No identification or lock on j-plug.	Install steel identification tag and lock for j-plug.	Yes/May 1-2, 2013
AOC9-MW06	Stick Up	Shallow	4.2-14.2 ft bgs	bollards	P	G	G	G	G	G	1 bollard fallen, other starting to fall.	Fix and paint bollards.	Yes/May 1-2, 2013
AOC9-MW07	Stick Up	Shallow	4.2-9.2 ft bgs	bollards	G	G	G	G	G	TBD	--	None at this time. Continue to monitor during future sampling events.	NA
AOC9-MW08	Stick Up	Shallow	15.4-20.4 ft bgs	bollards	G	G	G	G	G	TBD	--	None at this time. Continue to monitor during future sampling events.	NA
AOC9-MW12	Flush Mount	Shallow	10.0-20.0 ft bgs	flush mount	G	G	G	G	G	TBD	--	None at this time. Continue to monitor during future sampling events.	NA
AOC9-MW13	Stick Up	Shallow	10.0-20.0 ft bgs	bollards	G	F	G	G	G	TBD	Well labeled incorrectly - Labeled on outside of lid with sharpie.	Paint protective cover and label with correct well ID. Install steel identificaiton tag.	Yes/May 1-2, 2013
AOC9-MW14	Stick Up	Shallow	14.0-24.0 ft bgs	bollards	G	NA	G	G	G	G	Well has no identification.	Add identification label/tag to well.	Yes/May 1-2, 2013
AOC9-MW15	Stick Up	Shallow	9.0-14.0 ft bgs	bollards	G	NA	G	G	G	G	Well has no identification.	Add identification label/tag to well.	Yes/May 1-2, 2013
AOC9-MW16	Stick Up	Shallow	9.0-14.0 ft bgs	bollards	G	F	G	G	G	TBD	Well has no identification - Labeled on inside of lid with sharpie.	Add identification label/tag to well.	Yes/May 1-2, 2013
AOC9-MW17	Stick Up	Shallow	9.0-14.0 ft bgs	bollards	G	F	G	G	G	G	Well has no identification - Labeled on inside of lid with sharpie.	Add identification label/tag to well.	Yes/May 1-2, 2013
AOC9-MW18	Stick Up	Shallow	9.0-19.0 ft bgs	bollards	G	NA	G	G	G	G	Well has no identification.	Add identification label/tag to well.	Yes/May 1-2, 2013
AOC9-MW19	Flush Mount	Shallow	9.0-19.0 ft bgs	flush mount	G	NA	G	P	P	G	Lock does not open and j-plug does not fit properly. Well has no identification.	Install new lock and j-plug.	Yes/May 1-2, 2013
Surface Water													
AOC9-SW01	--	--	--	--	--	F	--	--	--	--	Marker found - spray painted orange.	None at this time. Continue to monitor during future sampling events.	NA
AOC9-SW02	--	--	--	--	--	F	--	--	--	--	Marker found - spray painted orange.	None at this time. Continue to monitor during future sampling events.	NA
AOC9-SW03	--	--	--	--	--	F	--	--	--	--	Marker found - spray painted orange.	None at this time. Continue to monitor during future sampling events.	NA

bgs = below ground surface

G = Good

F = Fair

P = Poor

NA = Not applicable

TBD = To Be Determined. Regarding pump condition, well was not sampled during this round of sampling.

Signed: M.Fronckowiak 4/8/13

DAILY FIELD REPORT

JOB NAME	AOC 9	DATE	Wednesday, May 1, 2013
CONTRACT	W912DQ-09-D-3013	REPORT NO.	AOC 9- DFR 050113
PROJECT	Former Griffiss Air Force Base	WEATHER	Sunny, warm
JOB #	747054	TEMPERATURE	AM 60 / PM 80
CLIENT	AFRPA/USACE	TIME/HRS	1030 – 1700

PERSONNEL ONSITE

Dale Dolph Parsons – Site Health and Safety Officer

EQUIPMENT ON SITE

Personal Vehicle P/U

MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

None

3 PHASE INSPECTION NOTES:

DFW	Prep Phase Meeting	Initial Inspection
Mobilization	8-25-10	8-30-10
Overburden Removal	8-25-10	9-1-10
Transite Pipe Removal	9-9-10	9-9-10
Sheet Pile	9-13-10	9-16-10
Contaminated Soil Handling, Load out and Disposal	9-21-10	10-14-10
Water Handling System, and Disposal	9-21-10	10-14-10
Drum Sampling	9-21-10	9-21-10
Persulfate Application	10-13-10	10-13-10
Groundwater Monitoring Well Installation (AOC9-MW19)	4-7-11	4-7-11
Road Paving Restoration	5-6-11	

WORK IN PROGRESS OR COMPLETE:

- 1) DRD completed maintenance items for monitoring well AOC9-MW-12 (photo attached). Items completed:
 - a) Annular space between well riser and casing filled with clean Item #1 silica sand.
- 2) DRD completed maintenance items for monitoring well AOC9-MW-13 (photo attached). Items completed:
 - a) Exterior well stick up protective cover painted brown to cover incorrect well # label.
 - b) Exterior of well protective cover labeled with proper well number with white paint pen.
 - c) Interior steel tag installed.
- 3) DRD completed maintenance items for monitoring well G009-MW-04 (photo attached). Items completed:
 - a) Bollards reburied with new concrete.
 - b) Bollards repainted safety yellow.
- 4) DRD completed maintenance items for monitoring well AOC9-MW-06 (photo attached). Items completed:
 - a) Bollards reburied with new concrete.
 - b) Bollards repainted safety yellow.

- 5) DRD conducted check of Bldg. 817. Bldg. and interior Parsons storage room. All areas found to be secured and locked.

VERBAL DISCUSSIONS/INSTRUCTIONS:

- 1) DRD coordinated runway area access thru Ed Arcuri (GAFB Security Dept.)

H&S ISSUES:

- 1) DRD completed review and sign off of AHA-015 – “Power/Hand Tool Operation” from the GAFB AOC9 Accident Prevention Plan.

ACCIDENTS REPORTED TODAY: **0**

NEAR MISSES REPORTED TODAY: **0**

DEFICIENCIES/CORRECTIVE ACTIONS

- 1) None.

ATTACHMENTS

None

PARSONS REPRESENTATIVE

J.H.L. DFR



AOC-9-MW-12



AOC9-MW-13



G009-MW-04
050113 GAFB AOC 9 DFR



AOC9-MW-06

DAILY FIELD REPORT

JOB NAME	AOC 9	DATE	Thursday, May 2, 2013
CONTRACT	W912DQ-09-D-3013	REPORT NO.	AOC 9- DFR 050213
PROJECT	Former Griffiss Air Force Base	WEATHER	Sunny, warm
JOB #	747054	TEMPERATURE	AM 60 / PM 80
CLIENT	AFRPA/USACE	TIME/HRS	0730 – 1730

PERSONNEL ONSITE

Dale Dolph Parsons – Site Health and Safety Officer

EQUIPMENT ON SITE

Personal Vehicle P/U

MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

Environmental samples collected were shipped to Katahdin Analytical Services via FEDEX.

3 PHASE INSPECTION NOTES:

DFW	Prep Phase Meeting	Initial Inspection
Mobilization	8-25-10	8-30-10
Overburden Removal	8-25-10	9-1-10
Transite Pipe Removal	9-9-10	9-9-10
Sheet Pile	9-13-10	9-16-10
Contaminated Soil Handling, Load out and Disposal	9-21-10	10-14-10
Water Handling System, and Disposal	9-21-10	10-14-10
Drum Sampling	9-21-10	9-21-10
Persulfate Application	10-13-10	10-13-10
Groundwater Monitoring Well Installation (AOC9-MW19)	4-7-11	4-7-11
Road Paving Restoration	5-6-11	

WORK IN PROGRESS OR COMPLETE:

- 1) DRD completed maintenance items for monitoring well G009-MW-02 (photo attached). Items completed:
 - a) Bollards reburied with new concrete.
 - b) Bollards repainted safety yellow.
- 2) DRD completed maintenance items for monitoring well AOC9-MW-19 (photo attached). Items completed:
 - a) Installed new locking cap.
 - b) Embedded “MW-19” on exterior flush mount cover.
- 3) DRD collected low flow groundwater sample from AOC9-MW19.
- 4) DRD collected low flow groundwater sample from AOC9-MW-14.
- 5) DRD collected GAFB-AOC9-SS001 from ditch area east of MW-14 monitoring well (photo attached).

VERBAL DISCUSSIONS/INSTRUCTIONS:

- 1) DRD checked in with Joe Wojnas prior to start of daily site activities.

- 2) DRD coordinated runway area access thru Ed Arcuri (GAFB Security Dept.)

H&S ISSUES:

- 1) DRD completed review and sign off of AHA-010 – “Sample Processing” from the GAFB AOC9 Accident Prevention Plan.

ACCIDENTS REPORTED TODAY: 0

NEAR MISSES REPORTED TODAY: 0

DEFICIENCIES/CORRECTIVE ACTIONS

- 1) None.

ATTACHMENTS

None

PARSONS REPRESENTATIVE

J.H. L. 2/2/13



G009-MW-02



AOC9-MW-19



Location of GAFB-AOC9-SS001 soil sample

050213 GAFB AOC 9 DFR

DAILY FIELD REPORT

JOB NAME	BLDG 775	DATE	Friday, May 3, 2013
CONTRACT	W912DQ-09-D-3013	REPORT NO.	AOC 9- DFR 050313
PROJECT	Former Griffiss Air Force Base	WEATHER	Sunny, warm
JOB #	747054	TEMPERATURE	AM 60 / PM 80
CLIENT	AFRPA/USACE	TIME/HRS	0700 – 1300

PERSONNEL ONSITE

Dale Dolph Parsons – Site Health and Safety Officer

EQUIPMENT ON SITE

Personal Vehicle P/U

MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

Concrete mix for water valve cover repair.

3 PHASE INSPECTION NOTES:

DFW	Prep Phase Meeting	Initial Inspection
Mobilization	8-25-10	8-30-10
Overburden Removal	8-25-10	9-1-10
Transite Pipe Removal	9-9-10	9-9-10
Sheet Pile	9-13-10	9-16-10
Contaminated Soil Handling, Load out and Disposal	9-21-10	10-14-10
Water Handling System, and Disposal	9-21-10	10-14-10
Drum Sampling	9-21-10	9-21-10
Persulfate Application	10-13-10	10-13-10
Groundwater Monitoring Well Installation (AOC9-MW19)	4-7-11	4-7-11
Road Paving Restoration	5-6-11	

WORK IN PROGRESS OR COMPLETE:

- 1) DRD completed maintenance item for repair of water valve flush mount cover at Bldg. 775 recovery system (photo attached). Items completed:
 - a) Installed new flush mount protective cover.
 - b) Painted new cover blue to indicate water valve.
 - c) Installed flush mount cover bolts in adjacent recovery well cover.
- 2) DRD secured and locked Bldg. 817 following completion of the Bldg. 775 valve cover replacement.

VERBAL DISCUSSIONS/INSTRUCTIONS:

- 1) DRD checked in with Joe Wojnas prior to start of daily site activities.

H&S ISSUES:

- 1) DRD completed review of AHA-015 – “Power/Hand Tool Operation” from the GAFB AOC9 Accident Prevention Plan.

ACCIDENTS REPORTED TODAY: **0**

DEFICIENCIES/CORRECTIVE ACTIONS

- 1) None.

ATTACHMENTS

None

PARSONS REPRESENTATIVE

J. L. 8/13



Bldg. 775 Water Cover replaced

DAILY FIELD REPORT



GAFB G009-MW-04 Before and after maintenance performed
GAFBAOC9_MW_04_Maint_Photo_

DAILY FIELD REPORT



GAFB AOC9 MW-06 Before and after maintenance items

GAFBAOC9_MW_06_Maint_Photo_

DAILY FIELD REPORT



GAFB AOC9 MW-13 Before and after maintenance

GAFBAOC9_MW_13_Maint_Photo

DAILY FIELD REPORT



GAFB AOC9 MW-19 Before and after maintenance

F

Analytical Data

The analytical data are provided in the attached CD.

**ECOLOGY AND ENVIRONMENT, INC.
FORMER GRIFFISS
AIR FORCE BASE, AOC 9
SG2375**

**KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074**

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SAMPLE DATA PACKAGE

0000001

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ECOLOGY AND ENVIRONMENT, INC
FORMER GRIFFISS AIR FORCE BASE, AOC 9
SG2375

Sample Receipt

The following samples were received on April 11, 2013 and were logged in under Katahdin Analytical Services work order number SG2375 for a hardcopy due date of April 30, 2013.

KATAHDIN <u>Sample No.</u>	ECOLOGY AND ENVIRONMENT <u>Sample Identification</u>
SG2375-1	AOC9-TB1-04082013
SG2375-2	AOC9-MW05LTM040813
SG2375-3	AOC9-SW03LTM040813
SG2375-4	AOC9-SW02LTM040813
SG2375-5	AOC9-SW01LTM040813
SG2375-6	AOC9-MW06LTM040913
SG2375-7	G009-MW02LTM040913
SG2375-8	G009-MW01LTM040913
SG2375-9	AOC9-MW17LTM040913
SG2375-10	AOC9-MW15LTM040913
SG2375-11	AOC9-MW15/DLTM040913
SG2375-12	AOC9-MW14LTM040913
SG2375-13	AOC9-MW14/DLTM040913
SG2375-14	AOC9-MW18LTM041013
SG2375-15	AOC9-MW19LTM041013

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Some of the client IDs on the Chain of Custody exceeds the 19-character limit of the Katahdin Analytical Information Management System. Therefore, the first character "A" in the client ID for SG2375-11 and 13 were omitted on all forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of work order SG2375 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8260 Analysis

Samples SG2375-9, 10, 11, 12, 12DL, 13, and 13DL were manually integrated for one or more of the following target analytes: benzene or 1,3-dichlorobenzene. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The independent check standard (file C0400A), associated with the initial calibration analyzed on the C instrument on 04/11/13, had high concentrations for the target analytes dichlorodifluoromethane, chloromethane, vinyl chloride, and chloroethane, which exceeded the DoD QSM acceptance limit of $\pm 20\%$ of the expected value from the ICAL.

The calibration verification standards (CV's) (files C0509, C0535, and C0557) had high responses for the compounds dichlorodifluoromethane, chloroethane, and/or bromoform. These responses resulted in %D's that were greater than the DoD QSM version 4.1 acceptance limits of 20%.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are based on the laboratory established acceptance limits for all analytes. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

The LCS WG122737-1 had five spiked target analytes with recoveries that were high and outside of the laboratory established acceptance limits. The DoD QSM allowable number of exceedances for 61 target analytes is three analytes. Since a high recovery would indicate a high bias and these target analytes were not detected above the LOD in the associated samples, the samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
04.26.13
Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

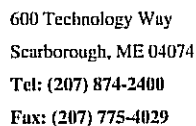
Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Client: <u>Ecology + Environment</u>	KAS PM: <u>SO</u>	Sampled By: <u>Chert</u>
Project:	KIMS Entry By: <u>GN</u>	Delivered By: <u>Fed Ex</u>
KAS Work Order#: <u>562375</u>	KIMS Review By: <u>GN</u>	Received By: <u>GN</u>
SDG #:	Cooler: <u>1</u> of <u>1</u>	Date/Time Rec.: <u>4-11-13/09:50</u>

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): <u>0.9</u>
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: Aqueous: No bubble larger than a pea Soil/Sediment: Received in airtight container?	✓				
Received in methanol?	✓			✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2 Sulfide - >9 Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments



**PLEASE BEAR DOWN AND
PRINT LEGIBLY IN PEN**

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS

Apr. 11, 2013

02:19 PM

Login Number: SG2375

Quote/Incoming: ENGRF

Account: ENE001

NoWeb

Ecology and Environment, Inc.

Project: ENEGFS

Former Griffiss Air Force Base, AOC 9

Login Information:

ANALYSIS INSTRUCTIONS : DoD QSM w/lab limits. Please run samples - 3,4,5 first.
CHECK NO. :
CLIENT PO# : 002888.PI02.09
CLIENT PROJECT MANAGE :
CONTRACT : Project #EE-003186-0001-05TTO
COOLER TEMPERATURE : 0.9
DELIVERY SERVICES : Fedex
EDD FORMAT : KAS103QC-TXT
LOGIN INITIALS : GN
PM : JO
PROJECT NAME : Former Griffiss Air Force Base, AOC 9
QC LEVEL : IV
REGULATORY LIST : NYSDEC Category B
REPORT INSTRUCTIONS : Send HC & CD.
SDG ID :
SDG STATUS :

Primary Report Address:

Robert Meyers
Ecology and Environment, Inc.
368 Pleasant View Dr.

Lancaster, NY 14086

Primary Invoice Address:

Accounts Payable
Ecology and Environment, Inc.
368 Pleasant View Dr.

Lancaster, NY 14086

Report CC Addresses:

Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG2375-1	AOC9-TB1-04082013	08-APR-13 11:55	11-APR-13			30-APR-13	
Matrix Aqueous	Product S SW8260OLM-S	Hold Date (shortest) 22-APR-13	Bottle Type 40mL Vial+HCl		Bottle Count	Comments	
SG2375-2	AOC9-MW05LTM040813	08-APR-13 15:50	11-APR-13			30-APR-13	
Matrix Aqueous	Product S SW8260OLM-S	Hold Date (shortest) 22-APR-13	Bottle Type 40mL Vial+HCl		Bottle Count	Comments	
SG2375-3	AOC9-SW03LTM040813	08-APR-13 16:15	11-APR-13			30-APR-13	
Matrix Aqueous	Product S SW8260OLM-S	Hold Date (shortest) 22-APR-13	Bottle Type 40mL Vial+HCl		Bottle Count	Comments Run SW samples first.	
SG2375-4	AOC9-SW02LTM040813	08-APR-13 16:30	11-APR-13			30-APR-13	
Matrix Aqueous	Product S SW8260OLM-S	Hold Date (shortest) 22-APR-13	Bottle Type 40mL Vial+HCl		Bottle Count	Comments Run SW samples first.	
SG2375-5	AOC9-SW01LTM040813	08-APR-13 16:40	11-APR-13			30-APR-13	
Matrix Aqueous	Product S SW8260OLM-S	Hold Date (shortest) 22-APR-13	Bottle Type 40mL Vial+HCl		Bottle Count	Comments Run SW samples first.	
SG2375-6	AOC9-MW06LTM040913	09-APR-13 09:10	11-APR-13			30-APR-13	
Matrix Aqueous	Product S SW8260OLM-S	Hold Date (shortest) 23-APR-13	Bottle Type 40mL Vial+HCl		Bottle Count	Comments	
SG2375-7	G009-MW02LTM040913	09-APR-13 10:30	11-APR-13			30-APR-13	
Matrix Aqueous	Product S SW8260OLM-S	Hold Date (shortest) 23-APR-13	Bottle Type 40mL Vial+HCl		Bottle Count	Comments MS/MSD	

JP
04-11-13

0000008

Login Number: SG2375

Quote/Incoming: ENGRF

Account: ENE001

NoWeb

Ecology and Environment, Inc.

Project: ENEGFS

Former Griffiss Air Force Base, AOC 9

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG2375-8	G009-MW01LTM040913	09-APR-13 12:00	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 23-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i>	
SG2375-9	AOC9-MW17LTM040913	09-APR-13 14:45	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 23-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i>	
SG2375-10	AOC9-MW15LTM040913	09-APR-13 16:10	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 23-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i>	
SG2375-11	OC9-MW15/DLTM040913	09-APR-13 16:10	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 23-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i> AOC9-MW15/DLTM040913	
SG2375-12	AOC9-MW14LTM040913	09-APR-13 17:55	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 23-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i>	
SG2375-13	OC9-MW14/DLTM040913	09-APR-13 17:55	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 23-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i> AOC9-MW14/DLTM040913	
SG2375-14	AOC9-MW18LTM041013	10-APR-13 09:30	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 24-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i>	
SG2375-15	AOC9-MW19LTM041013	10-APR-13 10:55	11-APR-13			30-APR-13	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8260OLM-S	<i>Hold Date (shortest)</i> 24-APR-13	<i>Bottle Type</i> 40mL Vial+HCl		<i>Bottle Count</i>	<i>Comments</i>	

Total Samples: 15
Total Analyses: 15

04-11-13

0000009

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-1
Client ID: AOC9-TB1-04082013
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0440.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	UL	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-1
Client ID: AOC9-TB1-04082013
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0440.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UL	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	UL	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		116.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		98.6	%					
Dibromofluoromethane		105.	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-2
Client ID: AOC9-MW05LTM04081
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0518.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-2
Client ID: AOC9-MW05LTM04081
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0518.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		110.	%					
Toluene-d8		98.3	%					
P-Bromofluorobenzene		96.6	%					
Dibromofluoromethane		97.6	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-3
Client ID: AOC9-SW03LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0446.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	UL	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-3
Client ID: AOC9-SW03LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0446.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UL	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	JL	0.45	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	J	0.36	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		120.	%					
Toluene-d8		104.	%					
P-Bromofluorobenzene		101.	%					
Dibromofluoromethane		106.	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-4
Client ID: AOC9-SW02LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0516.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-4
Client ID: AOC9-SW02LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0516.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		99.0	%					
P-Bromofluorobenzene		95.8	%					
Dibromofluoromethane		94.6	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-5
Client ID: AOC9-SW01LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0517.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-5
Client ID: AOC9-SW01LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0517.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		110.	%					
Toluene-d8		100.	%					
P-Bromofluorobenzene		97.0	%					
Dibromofluoromethane		95.0	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-6
Client ID: AOC9-MW06LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0519.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.2	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-6
Client ID: AOC9-MW06LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0519.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		110.	%					
Toluene-d8		99.1	%					
P-Bromofluorobenzene		96.8	%					
Dibromofluoromethane		92.5	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-7
Client ID: G009-MW02LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0520.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	ULMM	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	UMM	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.36	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-7
Client ID: G009-MW02LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0520.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UM	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	UM	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		98.4	%					
P-Bromofluorobenzene		94.6	%					
Dibromofluoromethane		91.6	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-8
Client ID: G009-MW01LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0521.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.46	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-8
Client ID: G009-MW01LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0521.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	J	0.42	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		109.	%					
Toluene-d8		99.0	%					
P-Bromofluorobenzene		99.2	%					
Dibromofluoromethane		92.3	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-9
Client ID: AOC9-MW17LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0525.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	3.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.94	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		15	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		1.8	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-9
Client ID: AOC9-MW17LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0525.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		180	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.1	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		12	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		60	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		111.	%					
Toluene-d8		98.2	%					
P-Bromofluorobenzene		95.1	%					
Dibromofluoromethane		93.9	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0526.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	JL	0.59	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.85	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.70	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	J	0.36	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0526.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	340	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		1.7	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		2.3	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		23	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		73	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.1	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.8	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.49	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		98.9	%					
P-Bromofluorobenzene		97.2	%					
Dibromofluoromethane		91.1	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10DL
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0523.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	8.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	UL	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	UL	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	J	1.1	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	U	20	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	U	20	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10DL
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0523.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		360	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.4	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	2.1	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		22	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		64	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	U	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	U	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene	U	4.0	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	U	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	1.5	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		98.0	%					
P-Bromofluorobenzene		94.9	%					
Dibromofluoromethane		93.2	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0524.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	JL	0.63	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.94	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.78	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0524.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	360	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		2.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		2.4	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		24	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		73	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.2	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		2.1	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.58	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		112.	%					
Toluene-d8		99.2	%					
P-Bromofluorobenzene		98.4	%					
Dibromofluoromethane		93.9	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11DL
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0547.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	8.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	UL	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	UL	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	UL	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	U	4.0	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	U	20	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	U	20	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11DL
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0547.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		380	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.7	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	2.1	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		21	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		60	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	U	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	U	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene		4.2	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	U	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	1.7	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		99.1	%					
P-Bromofluorobenzene		96.5	%					
Dibromofluoromethane		91.3	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0548.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	1.3	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane		2.2	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.92	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane		3.7	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0548.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	250	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene		1.5	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	J	1.9	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		3.1	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.4	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		22	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		27	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene		3.6	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.4	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene		2.4	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.8	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.66	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		100.	%					
P-Bromofluorobenzene		98.5	%					
Dibromofluoromethane		91.4	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12DL
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0565.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	JL	1.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	J	1.7	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene	U	5.0	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	J	3.3	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12DL
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0565.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		240	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	J	1.3	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	J	2.6	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	J	1.4	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		19	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		25	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	J	2.8	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene		5.4	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene		6.1	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	J	1.6	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		97.8	%					
Toluene-d8		98.0	%					
P-Bromofluorobenzene		96.6	%					
Dibromofluoromethane		89.8	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0549.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	1.4	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane		2.4	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.99	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane		4.5	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0549.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	270	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene		1.5	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes		2.2	ug/L	1	2	2.0	0.59	1.0
o-Xylene	J	0.27	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		3.3	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.5	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		22	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		26	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene		4.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.4	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene		2.6	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.9	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.73	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		109.	%					
Toluene-d8		99.9	%					
P-Bromofluorobenzene		102.	%					
Dibromofluoromethane		95.9	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13DL
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0566.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	JL	1.1	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	J	1.7	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene	U	5.0	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	J	3.6	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13DL
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0566.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		250	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	J	1.4	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	J	2.4	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	J	1.6	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		20	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		23	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	J	2.5	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene		5.4	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene		6.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	J	1.4	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		99.0	%					
Toluene-d8		98.0	%					
P-Bromofluorobenzene		96.4	%					
Dibromofluoromethane		92.6	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-14
Client ID: AOC9-MW18LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0567.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-14
Client ID: AOC9-MW18LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0567.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		96.8	%					
P-Bromofluorobenzene		96.0	%					
Dibromofluoromethane		94.6	%					

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-15
Client ID: AOC9-MW19LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0551.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	3.2	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		2.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.55	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-15
Client ID: AOC9-MW19LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0551.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		58	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		3.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		2.1	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		112.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		99.2	%					
Dibromofluoromethane		93.9	%					

VOLATILES DATA

QC Summary Section

Form 2 System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services
Lab Code: KAS

Project: Former Griffiss Air Force Base, AOC 9
SDG: SG2375

Matrix: AQ

Client Sample ID	Lab Sample ID	Col. ID	BFB	# DBF	# DCA	# TOL	#
AOC9-TB1-04082013	SG2375-1		98.6	105.	116.	102.	
AOC9-MW15LTM040913	SG2375-10		97.2	91.1	103.	98.9	
AOC9-MW15LTM040913	SG2375-10DL		94.9	93.2	108.	98.0	
OC9-MW15/DLTM040913	SG2375-11		98.4	93.9	112.	99.2	
OC9-MW15/DLTM040913	SG2375-11DL		96.5	91.3	108.	99.1	
AOC9-MW14LTM040913	SG2375-12		98.5	91.4	106.	100.	
AOC9-MW14LTM040913	SG2375-12DL		96.6	89.8	97.8	98.0	
OC9-MW14/DLTM040913	SG2375-13		102.	95.9	109.	99.9	
OC9-MW14/DLTM040913	SG2375-13DL		96.4	92.6	99.0	98.0	
AOC9-MW18LTM041013	SG2375-14		96.0	94.6	103.	96.8	
AOC9-MW19LTM041013	SG2375-15		99.2	93.9	112.	101.	
AOC9-MW05LTM040813	SG2375-2		96.6	97.6	110.	98.3	
AOC9-SW03LTM040813	SG2375-3		101.	106.	120.	104.	
AOC9-SW02LTM040813	SG2375-4		95.8	94.6	104.	99.0	
AOC9-SW01LTM040813	SG2375-5		97.0	95.0	110.	100.	
AOC9-MW06LTM040913	SG2375-6		96.8	92.5	110.	99.1	
G009-MW02LTM040913	SG2375-7		94.6	91.6	108.	98.4	
G009-MW01LTM040913	SG2375-8		99.2	92.3	109.	99.0	
AOC9-MW17LTM040913	SG2375-9		95.1	93.9	111.	98.2	
Laboratory Control S	WG122737-1		95.7	92.4	93.1	97.3	
Method Blank Sample	WG122737-2		96.6	97.8	113.	100.	
Laboratory Control S	WG122853-1		94.6	89.4	89.9	95.8	
Method Blank Sample	WG122853-2		93.6	90.9	97.4	98.4	
Matrix Spike	WG122853-5		97.2	87.1	99.6	98.0	
Matrix Spike Duplica	WG122853-6		96.4	90.7	91.4	96.3	
Laboratory Control S	WG122901-1		96.8	86.0	89.5	98.5	
Method Blank Sample	WG122901-2		94.3	89.7	96.1	97.9	
Laboratory Control S	WG123007-1		96.2	90.2	88.4	97.0	
Method Blank Sample	WG123007-2		94.6	90.0	93.0	97.0	

QC Limits

DBF	DIBROMOFLUOROMETHANE	68-128
BFB	P-BROMOFLUOROBENZENE	56-133

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services
Lab Code: KAS

Project: Former Griffiss Air Force Base, AOC 9
SDG: SG2375

Matrix: AQ

TOL	TOLUENE-D8	65-128
DCA	1,2-DICHLOROETHANE-D4	67-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

Form 4 Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : C0438.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : SG2375
Lab Sample ID : WG122737-2
Date Analyzed : 15-APR-13
Time Analyzed : 11:54

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG122737-1	C0434.D	04/15/13	09:29
AOC9-TB1-04082013	SG2375-1	C0440.D	04/15/13	12:56
AOC9-SW03LTM040813	SG2375-3	C0446.D	04/15/13	16:03

Form 4

Method Blank Summary

Lab Name : Katahdin Analytical Services Project : Former Griffiss Air Force Base, AOC 9 Lab File ID : C0513.D Instrument ID : GCMS-C Heated Purge : No	SDG : SG2375 Lab Sample ID : WG122853-2 Date Analyzed : 18-APR-13 Time Analyzed : 11:37

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG122853-1	C0510.D	04/18/13	09:42
AOC9-SW02LTM040813	SG2375-4	C0516.D	04/18/13	13:11
AOC9-SW01LTM040813	SG2375-5	C0517.D	04/18/13	13:42
AOC9-MW05LTM040813	SG2375-2	C0518.D	04/18/13	14:14
AOC9-MW06LTM040913	SG2375-6	C0519.D	04/18/13	14:45
G009-MW02LTM040913	SG2375-7	C0520.D	04/18/13	15:16
G009-MW01LTM040913	SG2375-8	C0521.D	04/18/13	15:48
AOC9-MW15LTM040913	SG2375-10DL	C0523.D	04/18/13	16:51
OC9-MW15/DLTM040913	SG2375-11	C0524.D	04/18/13	17:22
AOC9-MW17LTM040913	SG2375-9	C0525.D	04/18/13	17:54
AOC9-MW15LTM040913	SG2375-10	C0526.D	04/18/13	18:27
Matrix Spike	WG122853-5	C0527.D	04/18/13	19:00
Matrix Spike Duplica	WG122853-6	C0528.D	04/18/13	19:34

Form 4

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : C0539.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : SG2375
Lab Sample ID : WG122901-2
Date Analyzed : 19-APR-13
Time Analyzed : 12:19

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG122901-1	C0536.D	04/19/13	10:34
OC9-MW15/DLTM040913	SG2375-11DL	C0547.D	04/19/13	16:28
AOC9-MW14LTM040913	SG2375-12	C0548.D	04/19/13	16:59
OC9-MW14/DLTM040913	SG2375-13	C0549.D	04/19/13	17:30
AOC9-MW19LTM041013	SG2375-15	C0551.D	04/19/13	18:34

Form 4 Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : C0564.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : SG2375
Lab Sample ID : WG123007-2
Date Analyzed : 22-APR-13
Time Analyzed : 13:28

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG123007-1	C0559.D	04/22/13	10:40
AOC9-MW14LTM040913	SG2375-12DL	C0565.D	04/22/13	13:59
OC9-MW14/DLTM040913	SG2375-13DL	C0566.D	04/22/13	14:31
AOC9-MW18LTM041013	SG2375-14	C0567.D	04/22/13	15:02

Form 5

Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : CB533.D
Instrument ID : GCMS-C

SDG : SG2375
Date Analyzed : 11-APR-13
Time Analyzed : 09:31
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0 - 40.0% of mass 95	20.6	
75	30.0 - 60.0% of mass 95	50.8	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.0	0.0 ¹
174	Greater than 50.0% of mass 95	67.6	
175	5.0 - 9.0% of mass 174	6.1	8.98 ¹
176	95.0 - 101.0% of mass 174	66.3	98.08 ¹
177	5.0 - 9.0% of mass 176	4.7	7.16 ²

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG122628-2	C0390.D	04/11/13	12:00
Initial Calibration	WG122628-1	C0391.D	04/11/13	12:31
Initial Calibration	WG122628-3	C0394.D	04/11/13	14:05
Initial Calibration	WG122628-5	C0396.D	04/11/13	15:18
Initial Calibration	WG122628-6	C0397.D	04/11/13	15:49
Initial Calibration	WG122628-4	C0399.D	04/11/13	17:16
Independent Source	WG122628-7	C0400A.D	04/11/13	17:47

Form 5

Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : CB535.D
Instrument ID : GCMS-C

SDG : SG2375
Date Analyzed : 15-APR-13
Time Analyzed : 08:23
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0 - 40.0% of mass 95	24.1	
75	30.0 - 60.0% of mass 95	54.9	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	5.9	
173	Less than 2.0% of mass 174	0.0	0.0 ¹
174	Greater than 50.0% of mass 95	66.1	
175	5.0 - 9.0% of mass 174	4.6	6.92 ¹
176	95.0 - 101.0% of mass 174	63.5	96.07 ¹
177	5.0 - 9.0% of mass 176	4.0	6.29 ²

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG122737-4	C0433.D	04/15/13	08:45
Laboratory Control S	WG122737-1	C0434.D	04/15/13	09:29
Method Blank Sample	WG122737-2	C0438.D	04/15/13	11:54
AOC9-TB1-04082013	SG2375-1	C0440.D	04/15/13	12:56
AOC9-SW03LTM040813	SG2375-3	C0446.D	04/15/13	16:03

Form 5

Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : CB538.D
Instrument ID : GCMS-C

SDG : SG2375
Date Analyzed : 18-APR-13
Time Analyzed : 07:49
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0 - 40.0% of mass 95	22.7	
75	30.0 - 60.0% of mass 95	57.1	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	7.1	
173	Less than 2.0% of mass 174	0.9	1.36 ¹
174	Greater than 50.0% of mass 95	66.6	
175	5.0 - 9.0% of mass 174	5.2	7.77 ¹
176	95.0 - 101.0% of mass 174	65.1	97.66 ¹
177	5.0 - 9.0% of mass 176	4.2	6.46 ²

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG122853-4	C0509.D	04/18/13	09:00
Laboratory Control S	WG122853-1	C0510.D	04/18/13	09:42
Method Blank Sample	WG122853-2	C0513.D	04/18/13	11:37
AOC9-SW02LTM040813	SG2375-4	C0516.D	04/18/13	13:11
AOC9-SW01LTM040813	SG2375-5	C0517.D	04/18/13	13:42
AOC9-MW05LTM040813	SG2375-2	C0518.D	04/18/13	14:14
AOC9-MW06LTM040913	SG2375-6	C0519.D	04/18/13	14:45
G009-MW02LTM040913	SG2375-7	C0520.D	04/18/13	15:16
G009-MW01LTM040913	SG2375-8	C0521.D	04/18/13	15:48
AOC9-MW15LTM040913	SG2375-10DL	C0523.D	04/18/13	16:51
OC9-MW15/DLTM040913	SG2375-11	C0524.D	04/18/13	17:22
AOC9-MW17LTM040913	SG2375-9	C0525.D	04/18/13	17:54
AOC9-MW15LTM040913	SG2375-10	C0526.D	04/18/13	18:27
Matrix Spike	WG122853-5	C0527.D	04/18/13	19:00
Matrix Spike Duplica	WG122853-6	C0528.D	04/18/13	19:34

Form 5

Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : CB539.D
Instrument ID : GCMS-C

SDG : SG2375
Date Analyzed : 19-APR-13
Time Analyzed : 07:58
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0 - 40.0% of mass 95	21.3	
75	30.0 - 60.0% of mass 95	53.8	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	7.3	
173	Less than 2.0% of mass 174	0.0	0.0 ¹
174	Greater than 50.0% of mass 95	74.0	
175	5.0 - 9.0% of mass 174	4.3	5.77 ¹
176	95.0 - 101.0% of mass 174	72.6	98.04 ¹
177	5.0 - 9.0% of mass 176	4.7	6.43 ²

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG122901-4	C0535.D	04/19/13	09:52
Laboratory Control S	WG122901-1	C0536.D	04/19/13	10:34
Method Blank Sample	WG122901-2	C0539.D	04/19/13	12:19
OC9-MW15/DLTM040913	SG2375-11DL	C0547.D	04/19/13	16:28
AOC9-MW14LTM040913	SG2375-12	C0548.D	04/19/13	16:59
OC9-MW14/DLTM040913	SG2375-13	C0549.D	04/19/13	17:30
AOC9-MW19LTM041013	SG2375-15	C0551.D	04/19/13	18:34

Form 5

Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab File ID : CB540.D
Instrument ID : GCMS-C

SDG : SG2375
Date Analyzed : 22-APR-13
Time Analyzed : 08:02
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0 - 40.0% of mass 95	24.5	
75	30.0 - 60.0% of mass 95	56.3	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.2	
173	Less than 2.0% of mass 174	0.0	0.0 ¹
174	Greater than 50.0% of mass 95	70.6	
175	5.0 - 9.0% of mass 174	5.9	8.32 ¹
176	95.0 - 101.0% of mass 174	67.5	95.60 ¹
177	5.0 - 9.0% of mass 176	4.4	6.56 ²

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG123007-4	C0557.D	04/22/13	09:27
Laboratory Control S	WG123007-1	C0559.D	04/22/13	10:40
Method Blank Sample	WG123007-2	C0564.D	04/22/13	13:28
AOC9-MW14LTM040913	SG2375-12DL	C0565.D	04/22/13	13:59
OC9-MW14/DLTM040913	SG2375-13DL	C0566.D	04/22/13	14:31
AOC9-MW18LTM041013	SG2375-14	C0567.D	04/22/13	15:02

Form 8

Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, J
Lab ID : WG122628-4
Lab File ID : C0399.D

SDG: SG2375
Analytical Date: 04/11/13 17:16
Instrument ID: GCMS-C

	Std .	PENTAFLUOROBENZENE				1,4-DIFLUOROBENZENE				CHLOROBENZENE-D5			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
		696694		8.18		1232859		8.84		1196598		12.34	
	Upper Limit	1393388		8.68		2465718		9.34		2393196		12.84	
	Lower Limit	348347		7.68		616429.5		8.34		598299		11.84	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG122737-4	628076		8.18		1100383		8.84		1031879		12.34	
Laboratory Control S	WG122737-1	646434		8.18		1120485		8.84		1051416		12.34	
Method Blank Sample	WG122737-2	541181		8.18		971500		8.84		929005		12.34	
AOC9-TB1-04082013	SG2375-1	496395		8.18		918160		8.84		889807		12.34	
AOC9-SW03LTM0408	SG2375-3	494543		8.18		923050		8.84		919811		12.34	
Continuing Calibrati	WG122853-4	633033		8.18		1046560		8.84		999356		12.34	
Laboratory Control S	WG122853-1	634635		8.18		1079956		8.84		1030442		12.34	
Method Blank Sample	WG122853-2	588863		8.18		977661		8.84		936304		12.34	
AOC9-SW02LTM0408	SG2375-4	537896		8.18		914199		8.84		870935		12.34	
AOC9-SW01LTM0408	SG2375-5	519494		8.18		889996		8.84		855234		12.34	
AOC9-MW05LTM040	SG2375-2	506002		8.18		872499		8.84		827261		12.34	
AOC9-MW06LTM040	SG2375-6	513585		8.18		874218		8.84		840336		12.34	
G009-MW02LTM0409	SG2375-7	505564		8.18		859726		8.84		831221		12.34	
G009-MW01LTM0409	SG2375-8	516837		8.18		864563		8.84		834008		12.34	
AOC9-MW15LTM040	SG2375-10DL	504005		8.18		853083		8.84		822718		12.34	
OC9-MW15/DLTM040	SG2375-11	490661		8.18		856976		8.84		858040		12.34	
AOC9-MW17LTM040	SG2375-9	514962		8.18		890007		8.84		859927		12.34	
AOC9-MW15LTM040	SG2375-10	505129		8.18		847745		8.84		855214		12.34	
Matrix Spike	WG122853-5	544025		8.18		922669		8.84		898142		12.34	
Matrix Spike Duplica	WG122853-6	569787		8.18		942613		8.84		920669		12.34	
Continuing Calibrati	WG122901-4	621081		8.18		1033442		8.84		1006965		12.34	
Laboratory Control S	WG122901-1	651136		8.19		1054034		8.84		1023500		12.34	
Method Blank Sample	WG122901-2	598391		8.18		982781		8.84		939577		12.34	
OC9-MW15/DLTM040	SG2375-11DL	499471		8.18		839020		8.85		812169		12.34	
AOC9-MW14LTM040	SG2375-12	501219		8.19		833098		8.84		834154		12.34	
OC9-MW14/DLTM040	SG2375-13	487306		8.19		834731		8.84		857587		12.35	
AOC9-MW19LTM041	SG2375-15	499727		8.18		828455		8.84		825003		12.34	
Continuing Calibrati	WG123007-4	597282		8.18		974481		8.84		947992		12.34	
Laboratory Control S	WG123007-1	618357		8.18		1029093		8.84		1005672		12.33	
Method Blank Sample	WG123007-2	582908		8.18		973208		8.84		942972		12.33	
AOC9-MW14LTM040	SG2375-12DL	558602		8.18		937851		8.84		918779		12.33	
OC9-MW14/DLTM040	SG2375-13DL	560983		8.18		942252		8.84		919878		12.34	
AOC9-MW18LTM041	SG2375-14	530855		8.17		901754		8.84		884963		12.34	

Form 8

Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, ,
Lab ID : WG122628-4
Lab File ID : C0399.D

SDG: SG2375
Analytical Date: 04/11/13 17:16
Instrument ID: GCMS-C

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	637940		15.69	
	Upper Limit	1275880		16.19	
	Lower Limit	318970		15.19	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG122737-4	559023		15.69	
Laboratory Control S	WG122737-1	573375		15.69	
Method Blank Sample	WG122737-2	455948		15.69	
AOC9-TB1-04082013	SG2375-1	440291		15.69	
AOC9-SW03LTM0408	SG2375-3	449939		15.69	
Continuing Calibrati	WG122853-4	557442		15.69	
Laboratory Control S	WG122853-1	583465		15.69	
Method Blank Sample	WG122853-2	489223		15.69	
AOC9-SW02LTM0408	SG2375-4	458383		15.69	
AOC9-SW01LTM0408	SG2375-5	448649		15.69	
AOC9-MW05LTM040	SG2375-2	443102		15.69	
AOC9-MW06LTM040	SG2375-6	438605		15.69	
G009-MW02LTM0409	SG2375-7	436909		15.69	
G009-MW01LTM0409	SG2375-8	437179		15.69	
AOC9-MW15LTM040	SG2375-10DL	432729		15.69	
OC9-MW15/DLTM040	SG2375-11	437540		15.69	
AOC9-MW17LTM040	SG2375-9	447927		15.69	
AOC9-MW15LTM040	SG2375-10	440010		15.69	
Matrix Spike	WG122853-5	502216		15.69	
Matrix Spike Duplica	WG122853-6	516434		15.69	
Continuing Calibrati	WG122901-4	563482		15.69	
Laboratory Control S	WG122901-1	575403		15.69	
Method Blank Sample	WG122901-2	493744		15.69	
OC9-MW15/DLTM040	SG2375-11DL	425183		15.69	
AOC9-MW14LTM040	SG2375-12	441036		15.69	
OC9-MW14/DLTM040	SG2375-13	438588		15.69	
AOC9-MW19LTM041	SG2375-15	429965		15.69	
Continuing Calibrati	WG123007-4	557758		15.69	
Laboratory Control S	WG123007-1	579597		15.69	
Method Blank Sample	WG123007-2	523175		15.69	
AOC9-MW14LTM040	SG2375-12DL	495942		15.69	
OC9-MW14/DLTM040	SG2375-13DL	501731		15.69	
AOC9-MW18LTM041	SG2375-14	480540		15.68	

Form 8

Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, ,
Lab ID : WG122628-4
Lab File ID : C0399.D

SDG: SG2375
Analytical Date: 04/11/13 17:16
Instrument ID: GCMS-C

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-1
Client ID: AOC9-TB1-04082013
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0440.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	UL	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-1
Client ID: AOC9-TB1-04082013
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0440.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UL	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	UL	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		116.	%					
Toluene-d8		102.	%					
P-Bromofluorobenzene		98.6	%					
Dibromofluoromethane		105.	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041513.b\C0440.D
 Report Date: 23-Apr-2013 10:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041513.b\C0440.D
 Lab Smp Id: SG2375-1 Client Smp ID: AOC9-TB1-04082013
 Inj Date : 15-APR-2013 12:56 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : SG2375-1
 Misc Info : WG122737,WG122628-4
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041513.b\C826A67.m
 Meth Date : 23-Apr-2013 10:52 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.12
 Compound Sublist: all.sub

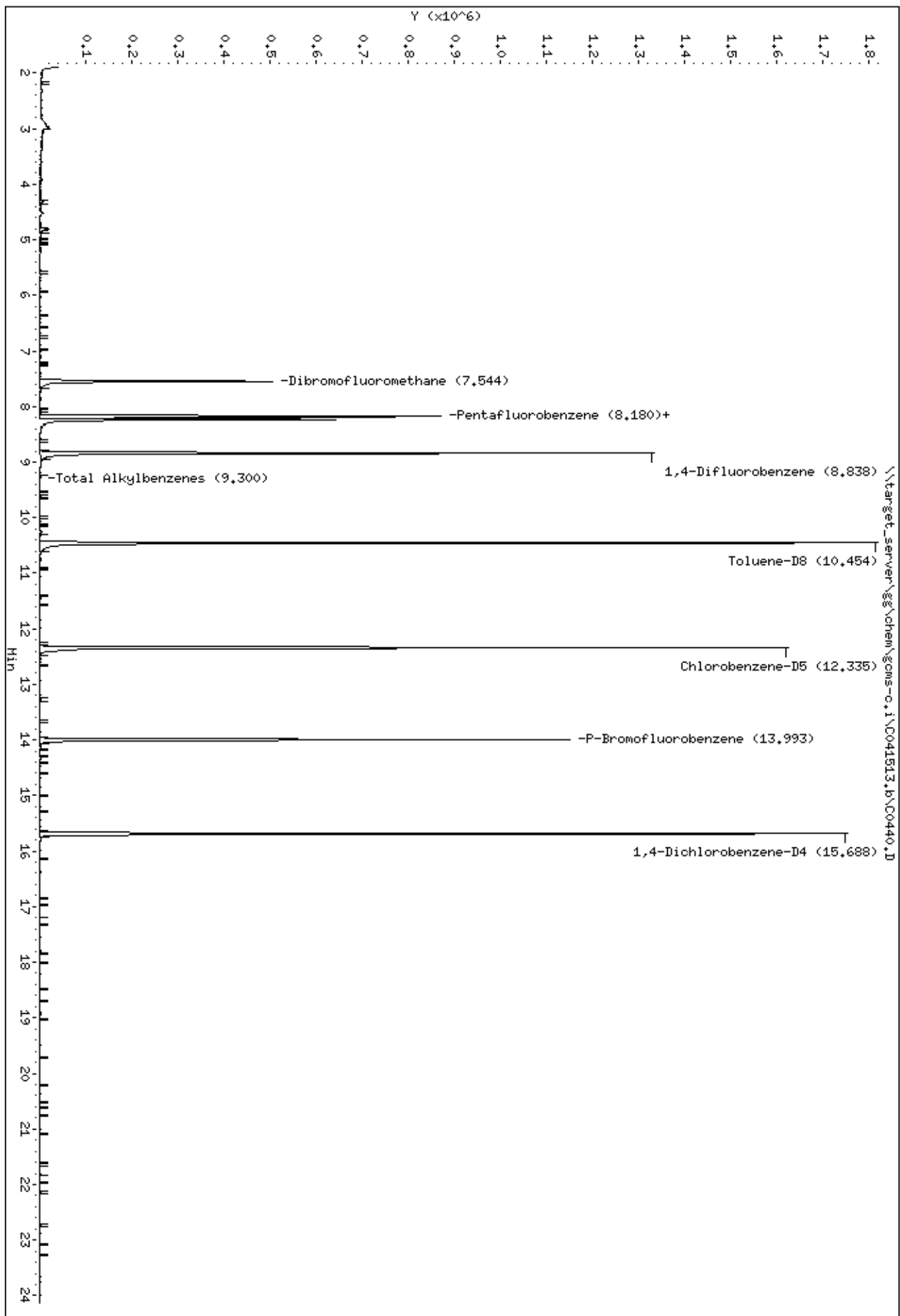
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/l)	FINAL (ug/l)	
\$ 37 Dibromofluoromethane	113	7.543	7.550	(0.922)	312593	52.5496	52.5	
* 42 Pentafluorobenzene	168	8.180	8.179	(1.000)	496395	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.230	8.236	(1.006)	450820	58.0385	58.0	
* 49 1,4-Difluorobenzene	114	8.838	8.844	(1.000)	918160	50.0000		
\$ 55 Toluene-D8	98	10.454	10.453	(1.183)	1024591	50.9066	50.9	
* 66 Chlorobenzene-D5	117	12.341	12.340	(1.000)	889807	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.993	13.999	(1.583)	445936	49.3071	49.3	
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.694	(1.000)	440291	50.0000		

Data File: \\target_server\gs\chem\gms-c.i\CO41513.b\CO440.D
Date: 15-APR-2013 12:56
Client ID: AOC9-TB1-04082013
Sample Info: SG2375-1

Instrument: gms-c.i



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-2
Client ID: AOC9-MW05LTM04081
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0518.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-2
Client ID: AOC9-MW05LTM04081
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0518.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		110.	%					
Toluene-d8		98.3	%					
P-Bromofluorobenzene		96.6	%					
Dibromofluoromethane		97.6	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0518.D
 Report Date: 23-Apr-2013 11:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0518.D
 Lab Smp Id: SG2375-2 Client Smp ID: AOC9-MW05LTM040813
 Inj Date : 18-APR-2013 14:14 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : SG2375-2
 Misc Info : WG122853, WG122628-4
 Comment : SW846 5030
 Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
 Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.12
 Compound Sublist: all.sub

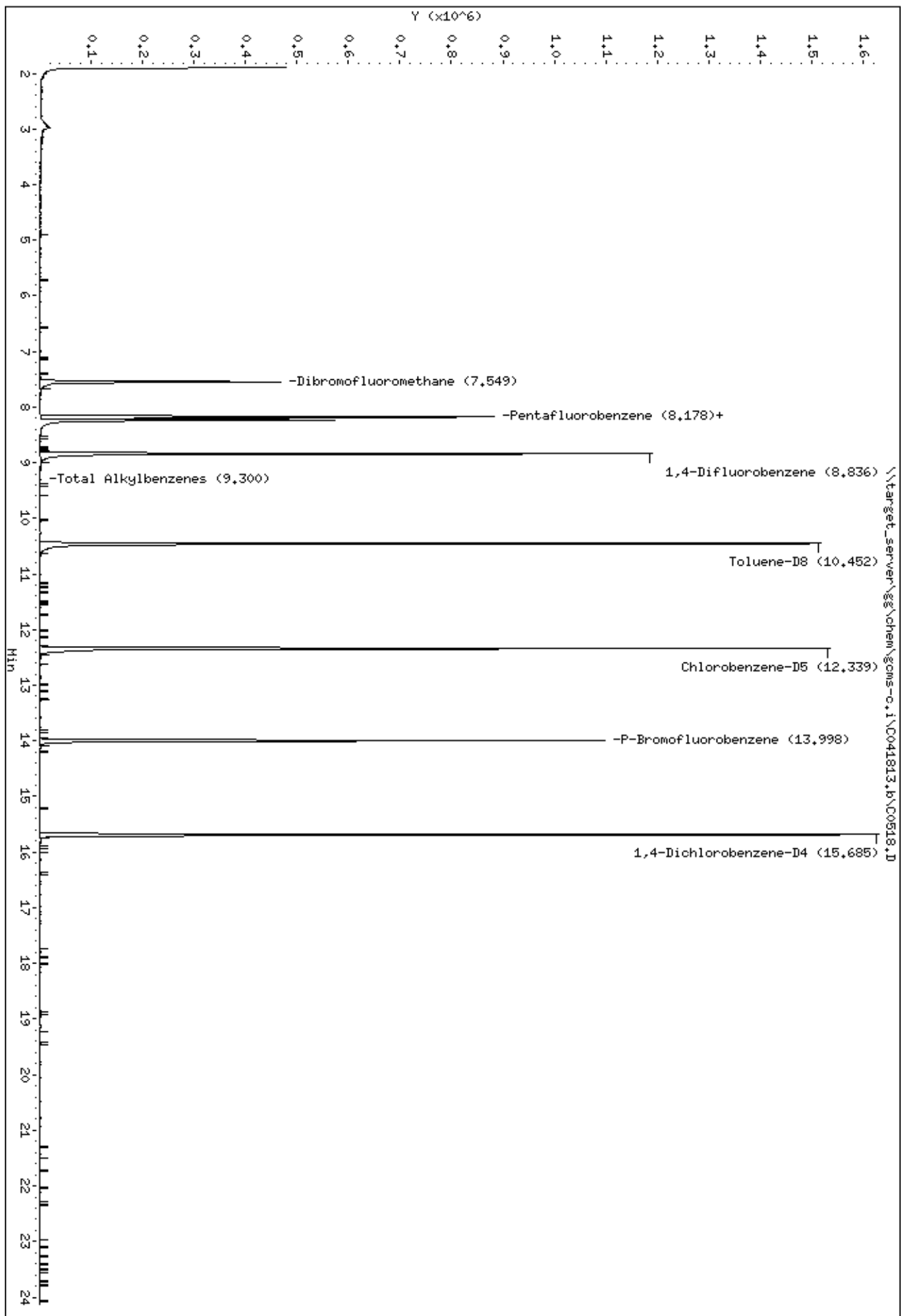
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 37 Dibromofluoromethane	113	7.548	7.550	(0.923)	295871	48.7941	48.8		
* 42 Pentafluorobenzene	168	8.177	8.179	(1.000)	506002	50.0000			
\$ 45 1,2-Dichloroethane-D4	65	8.227	8.236	(1.006)	437279	55.2264	55.2		
* 49 1,4-Difluorobenzene	114	8.835	8.844	(1.000)	872499	50.0000			
\$ 55 Toluene-D8	98	10.451	10.453	(1.183)	939776	49.1362	49.1		
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	827261	50.0000			
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.584)	415096	48.2990	48.3		
* 91 1,4-Dichlorobenzene-D4	152	15.685	15.694	(1.000)	443102	50.0000			

Data File: \\target_server\gs\chem\gms-c.i\CO41813.b\CO518.D
Date : 18-APR-2013 14:14
Client ID: AOC9-HW05LTH040813
Sample Info: SG2375-2

Instrument: gms-c.i



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-3
Client ID: AOC9-SW03LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0446.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	UL	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-3
Client ID: AOC9-SW03LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0446.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	UL	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UL	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	JL	0.45	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	J	0.36	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		120.	%					
Toluene-d8		104.	%					
P-Bromofluorobenzene		101.	%					
Dibromofluoromethane		106.	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041513.b\C0446.D
Report Date: 23-Apr-2013 10:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041513.b\C0446.D
Lab Smp Id: SG2375-3 Client Smp ID: AOC9-SW03LTM040813
Inj Date : 15-APR-2013 16:03 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-3
Misc Info : WG122737,WG122628-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C041513.b\C826A67.m
Meth Date : 23-Apr-2013 10:52 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

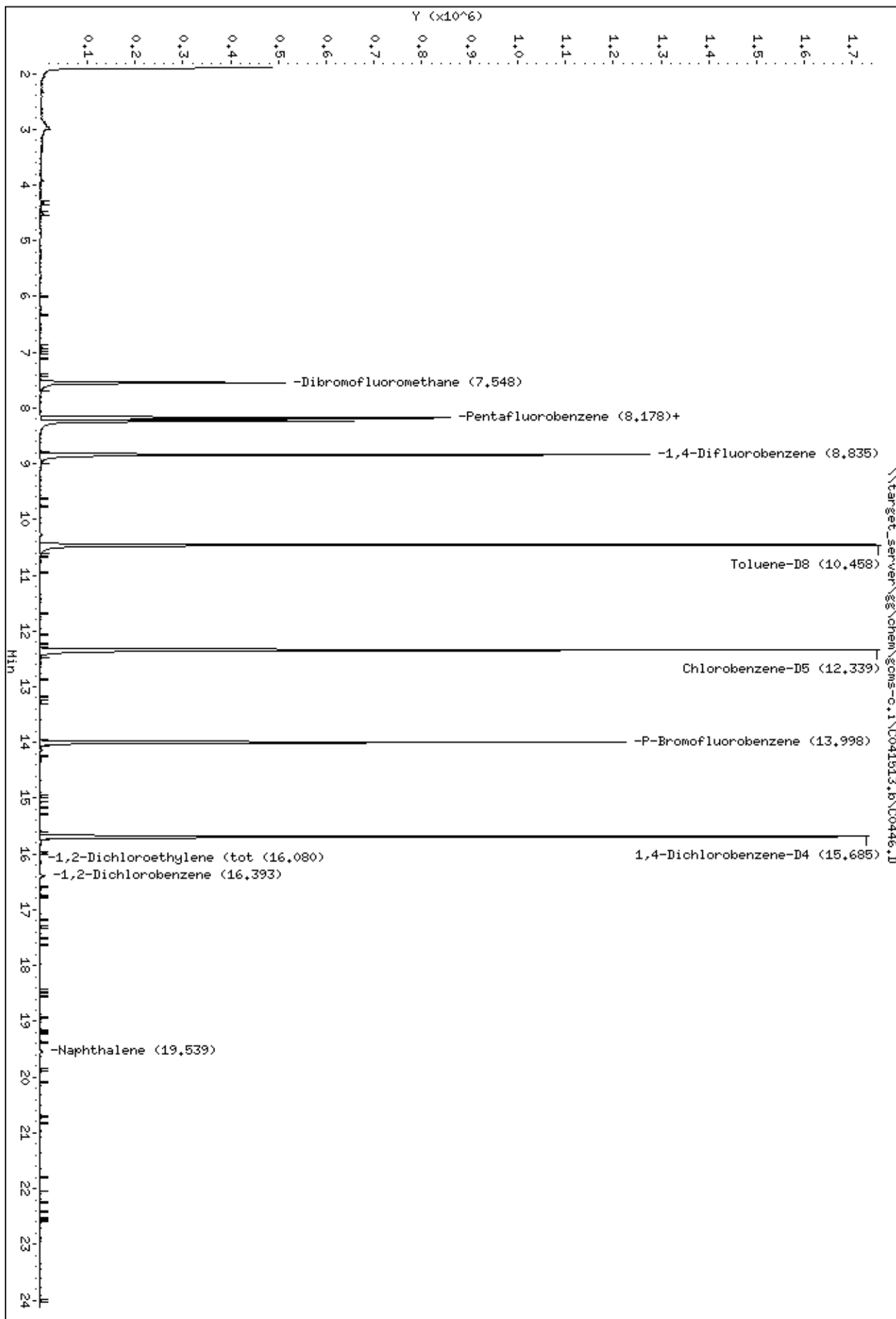
						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 37 Dibromofluoromethane	113	7.548	7.550	(0.923)	313791	52.9485	52.9	
* 42 Pentafluorobenzene	168	8.177	8.179	(1.000)	494543	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.234	8.236	(1.007)	462437	59.7570	59.8	
* 49 1,4-Difluorobenzene	114	8.842	8.844	(1.000)	923050	50.0000		
\$ 55 Toluene-D8	98	10.458	10.453	(1.183)	1053711	52.0761	52.1	
* 66 Chlorobenzene-D5	117	12.338	12.340	(1.000)	919811	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.997	13.999	(1.583)	458562	50.4345	50.4	
* 91 1,4-Dichlorobenzene-D4	152	15.685	15.694	(1.000)	449939	50.0000		
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	4386	0.45103	0.45(a)	
101 Naphthalene	128	19.539	19.541	(1.246)	5378	0.35979	0.36(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\goms-c.i\CO41513.b\CO446.D
Date: 15-APR-2013 16:03
Client ID: AOC9-SW03LTH040813
Sample Info: SG2375-3

Instrument: goms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041513,b\C0446.D

Date : 15-APR-2013 16:03

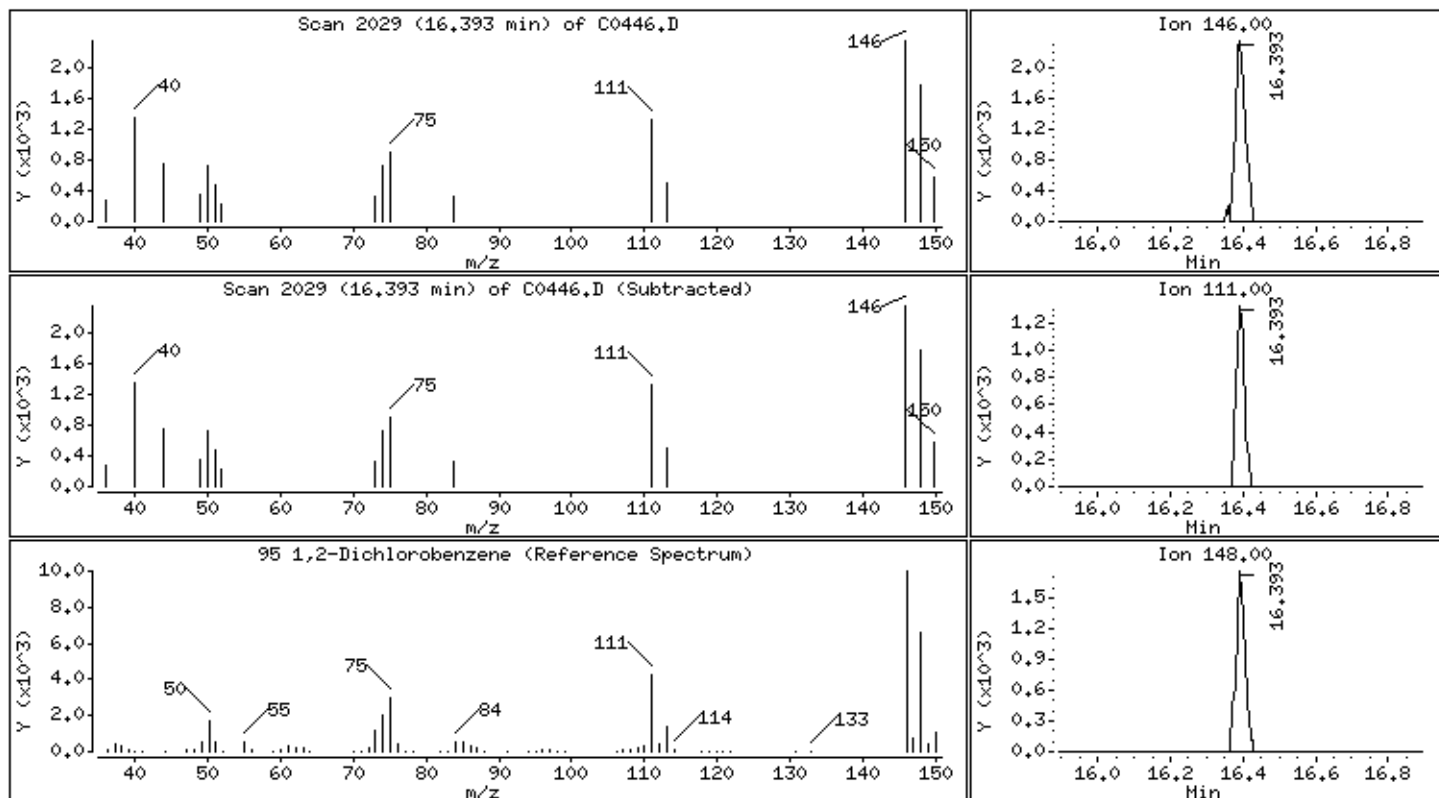
Client ID: AOC9-SW03LTH040813

Instrument: gcms-c.i

Sample Info: SG2375-3

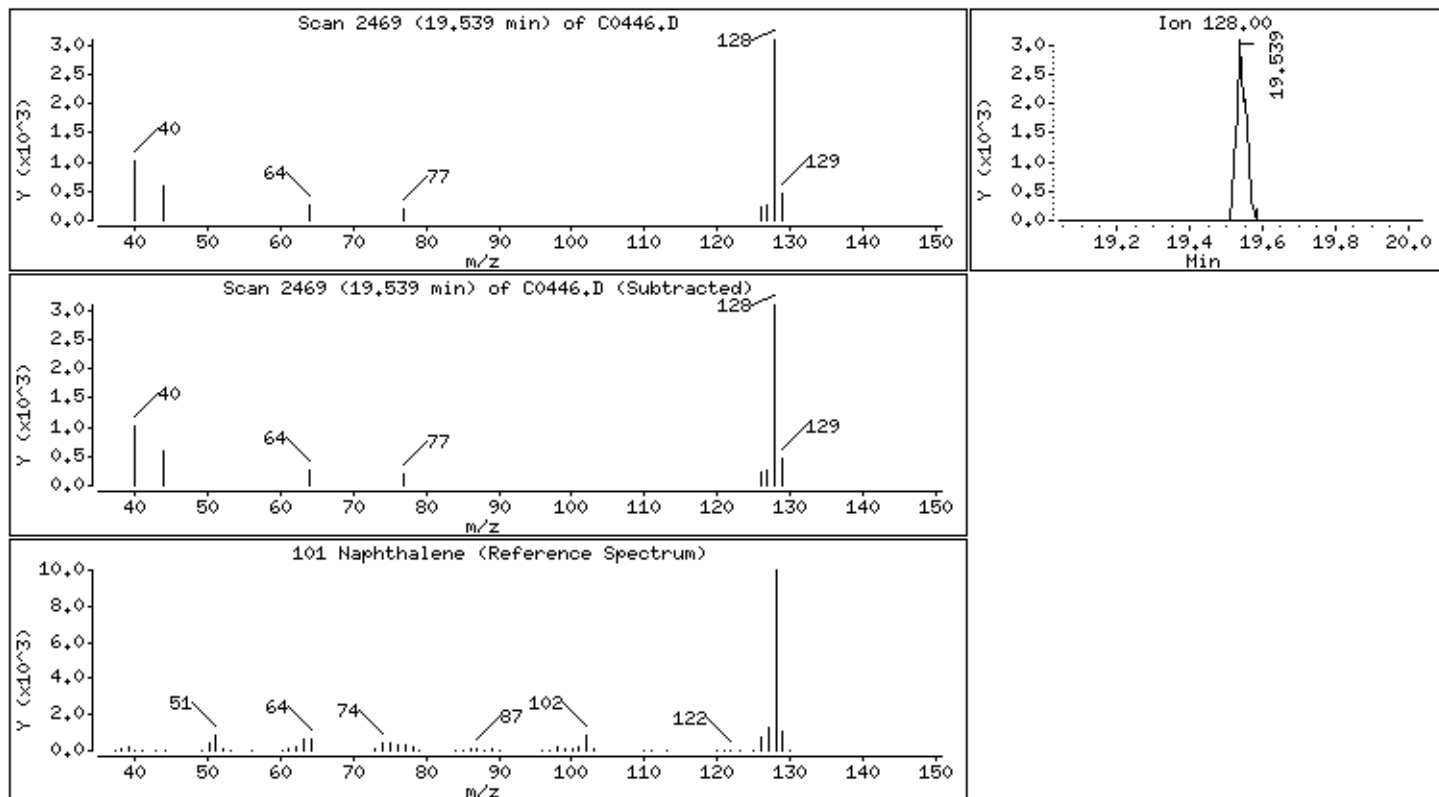
95 1,2-Dichlorobenzene

Concentration: 0.45 ug/l



101 Naphthalene

Concentration: 0.36 ug/l



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-4
Client ID: AOC9-SW02LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0516.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-4
Client ID: AOC9-SW02LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0516.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		104.	%					
Toluene-d8		99.0	%					
P-Bromofluorobenzene		95.8	%					
Dibromofluoromethane		94.6	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0516.D
Report Date: 23-Apr-2013 11:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0516.D
Lab Smp Id: SG2375-4 Client Smp ID: AOC9-SW02LTM040813
Inj Date : 18-APR-2013 13:11 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-4
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

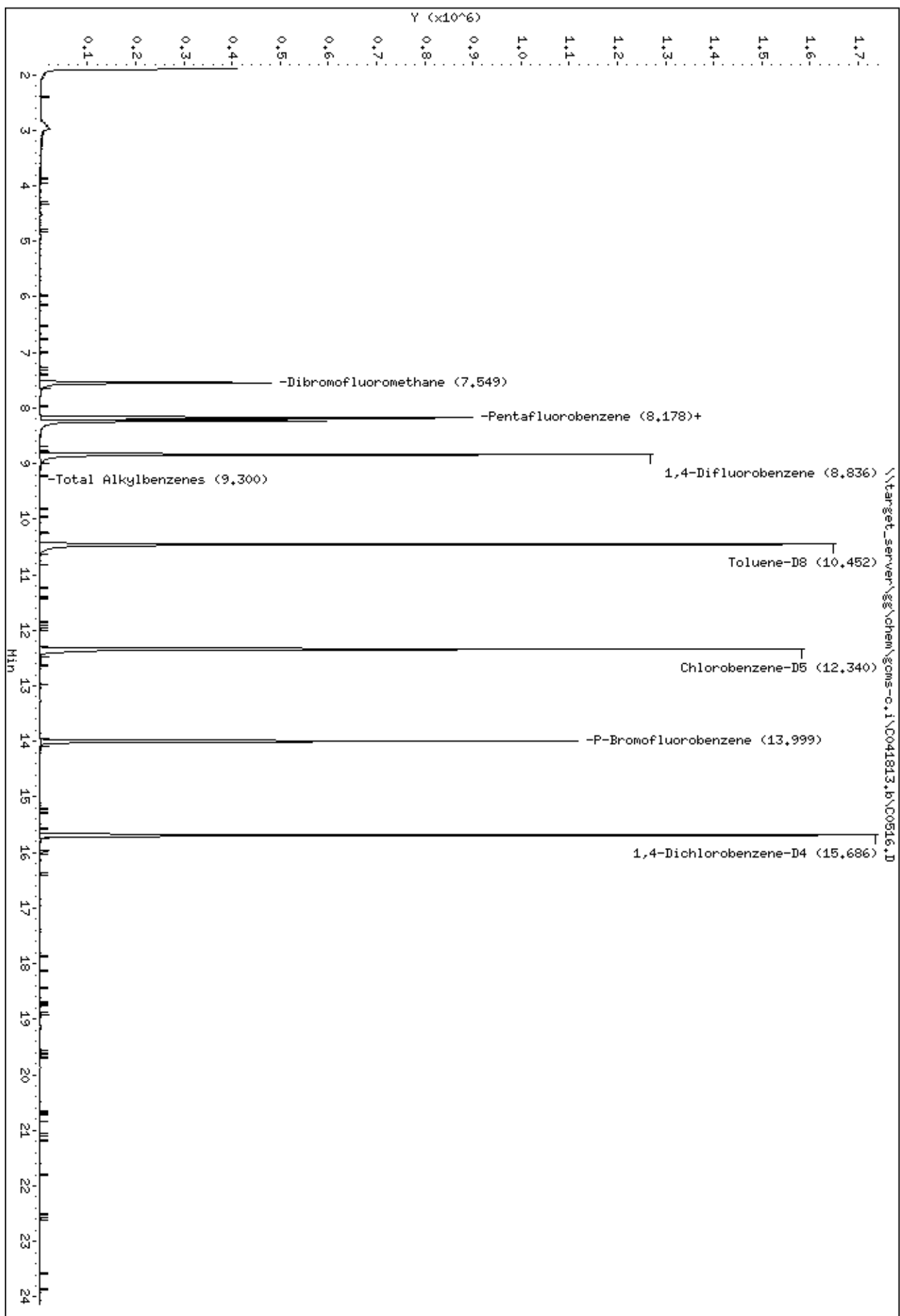
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/l)	FINAL (ug/l)	
\$ 37 Dibromofluoromethane	113	7.549	7.550	(0.923)	304915	47.3040	47.3	
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	537896	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236	(1.006)	437618	51.9921	52.0	
* 49 1,4-Difluorobenzene	114	8.836	8.844	(1.000)	914199	50.0000		
\$ 55 Toluene-D8	98	10.452	10.453	(1.183)	992577	49.5297	49.5	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	870935	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.991	13.999	(1.583)	431324	47.8980	47.9	
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	458383	50.0000		

Data File: \\target_server\gs\chem\gms-c.i\CO41813.b\CO516.D
 Date : 18-APR-2013 13:11
 Client ID: AOC9-SM02LTH040813
 Sample Info: SG2375-4

Instrument: gms-c.i



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-5
Client ID: AOC9-SW01LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0517.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-5
Client ID: AOC9-SW01LTM040813
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0517.D

Sample Date: 08-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		110.	%					
Toluene-d8		100.	%					
P-Bromofluorobenzene		97.0	%					
Dibromofluoromethane		95.0	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0517.D
 Report Date: 23-Apr-2013 11:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0517.D
 Lab Smp Id: SG2375-5 Client Smp ID: AOC9-SW01LTM040813
 Inj Date : 18-APR-2013 13:42 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : SG2375-5
 Misc Info : WG122853, WG122628-4
 Comment : SW846 5030
 Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
 Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.12
 Compound Sublist: all.sub

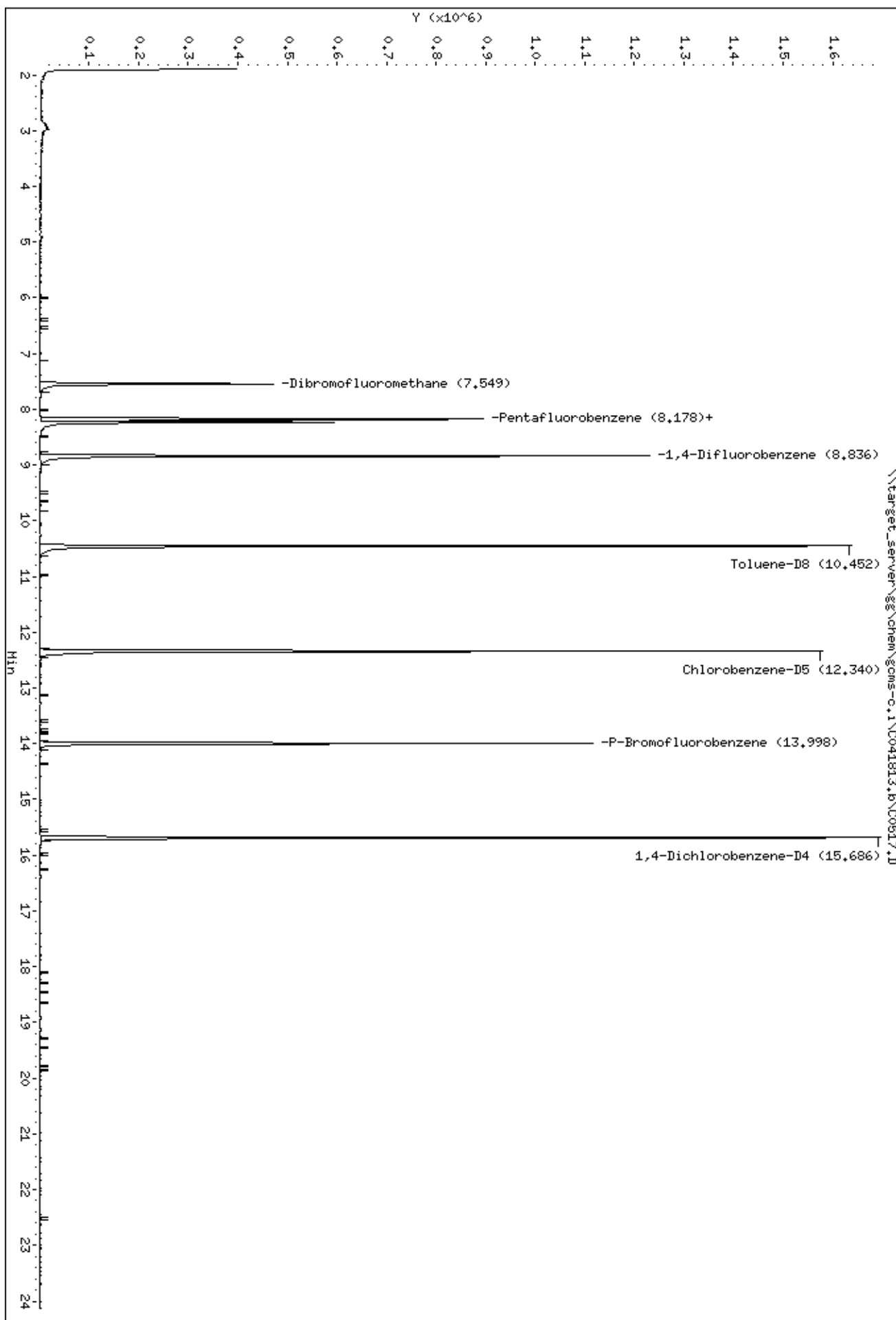
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 37 Dibromofluoromethane	113	7.548	7.550	(0.923)	295886	47.5293	47.5		
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	519494	50.0000			
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236	(1.006)	445210	54.7677	54.8		
* 49 1,4-Difluorobenzene	114	8.835	8.844	(1.000)	889996	50.0000			
\$ 55 Toluene-D8	98	10.451	10.453	(1.183)	977753	50.1168	50.1		
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	855234	50.0000			
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.584)	425232	48.5057	48.5		
* 91 1,4-Dichlorobenzene-D4	152	15.685	15.694	(1.000)	448649	50.0000			

Data File: \\target_server\gs\chem\gms-c.i\CO41813.b\CO517.D
Date : 18-APR-2013 13:42
Client ID: AOC9-SM01LTH040813
Sample Info: SG2375-5

Instrument: gms-c.i



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-6
Client ID: AOC9-MW06LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0519.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.2	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-6
Client ID: AOC9-MW06LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0519.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		110.	%					
Toluene-d8		99.1	%					
P-Bromofluorobenzene		96.8	%					
Dibromofluoromethane		92.5	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0519.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0519.D
Lab Smp Id: SG2375-6 Client Smp ID: AOC9-MW06LTM040913
Inj Date : 18-APR-2013 14:45 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-6
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

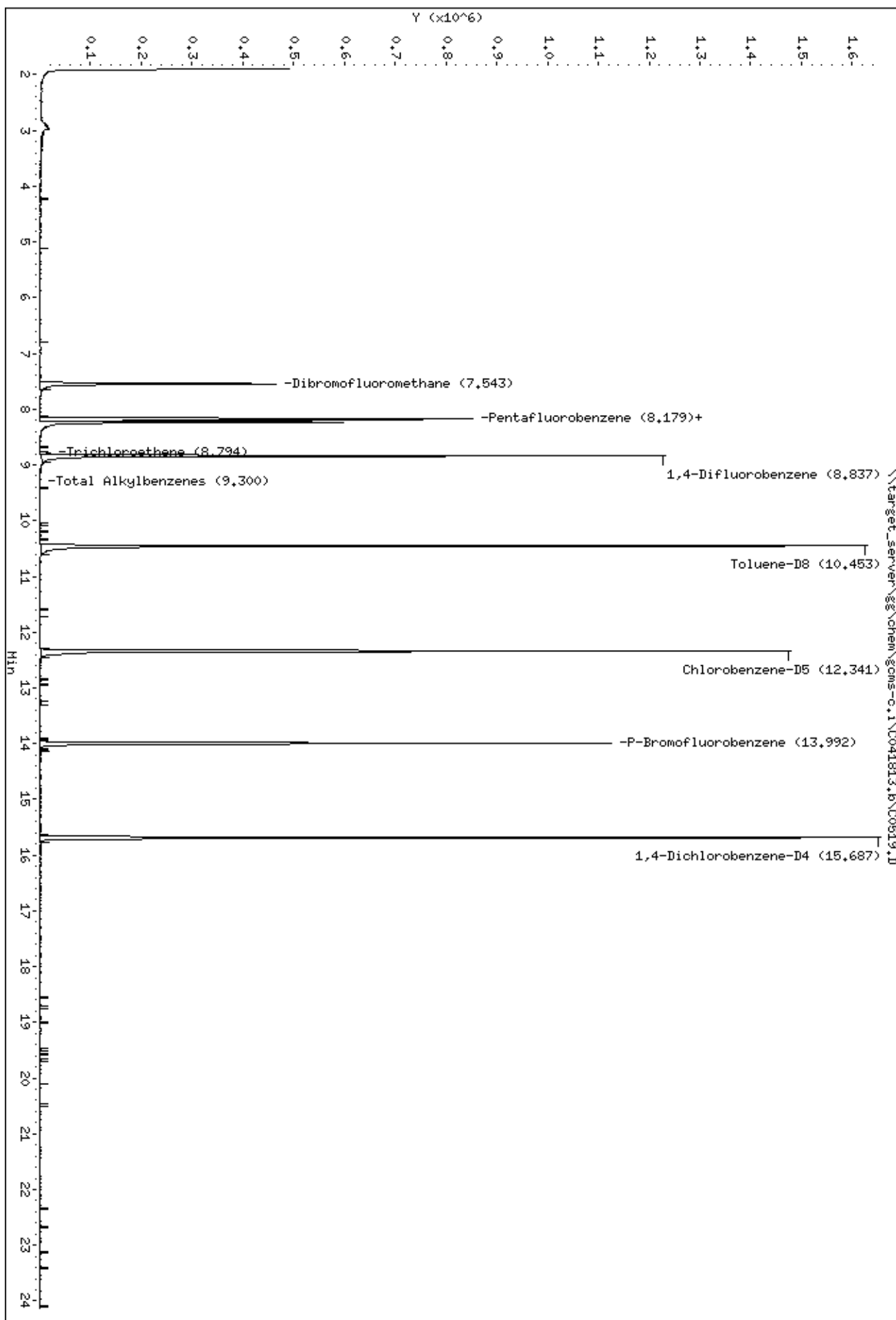
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/l)	FINAL (ug/l)	
\$ 37 Dibromofluoromethane	113	7.543	7.550	(0.922)	284705	46.2594	46.2	
* 42 Pentafluorobenzene	168	8.179	8.179	(1.000)	513585	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.229	8.236	(1.006)	440716	54.8387	54.8	
48 Trichloroethene	95	8.787	8.794	(0.994)	6670	1.20766	1.2	
* 49 1,4-Difluorobenzene	114	8.837	8.844	(1.000)	874218	50.0000		
\$ 55 Toluene-D8	98	10.453	10.453	(1.183)	949238	49.5333	49.5	
* 66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	840336	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.992	13.999	(1.583)	417016	48.4270	48.4	
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.694	(1.000)	438605	50.0000		

Data File: \\target_server\gs\chem\gms-c.i\CO41813.b\CO519.D
Date: 18-APR-2013 14:45
Client ID: AOC9-HM06LTH040913
Sample Info: SG2375-6

Instrument: gms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0519.D

Date : 18-APR-2013 14:45

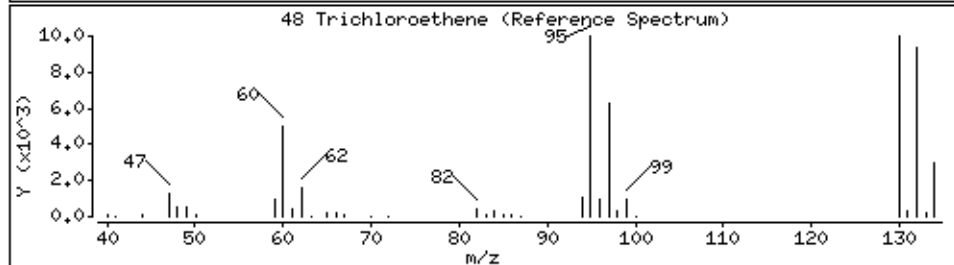
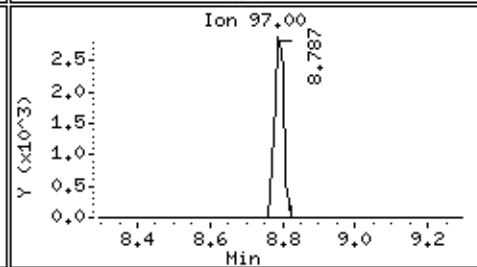
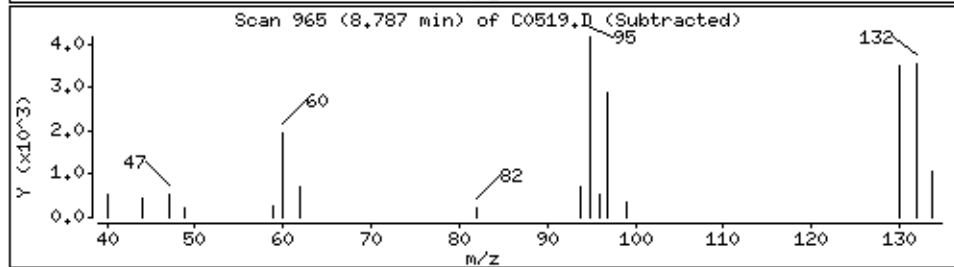
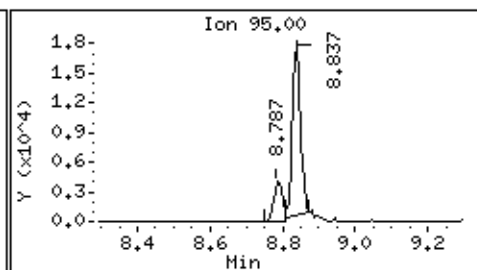
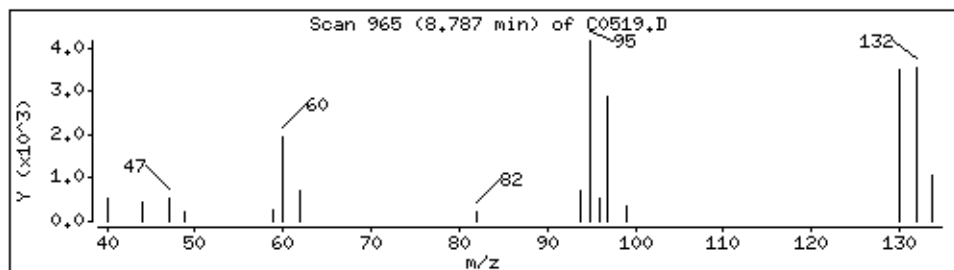
Client ID: AOC9-MW06LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-6

48 Trichloroethene

Concentration: 1.2 ug/l



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-7
Client ID: G009-MW02LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0520.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	ULMM	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	UMM	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.36	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-7
Client ID: G009-MW02LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0520.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UM	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	UM	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		98.4	%					
P-Bromofluorobenzene		94.6	%					
Dibromofluoromethane		91.6	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0520.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0520.D
Lab Smp Id: SG2375-7 Client Smp ID: G009-MW02LTM040913
Inj Date : 18-APR-2013 15:16 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-7
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

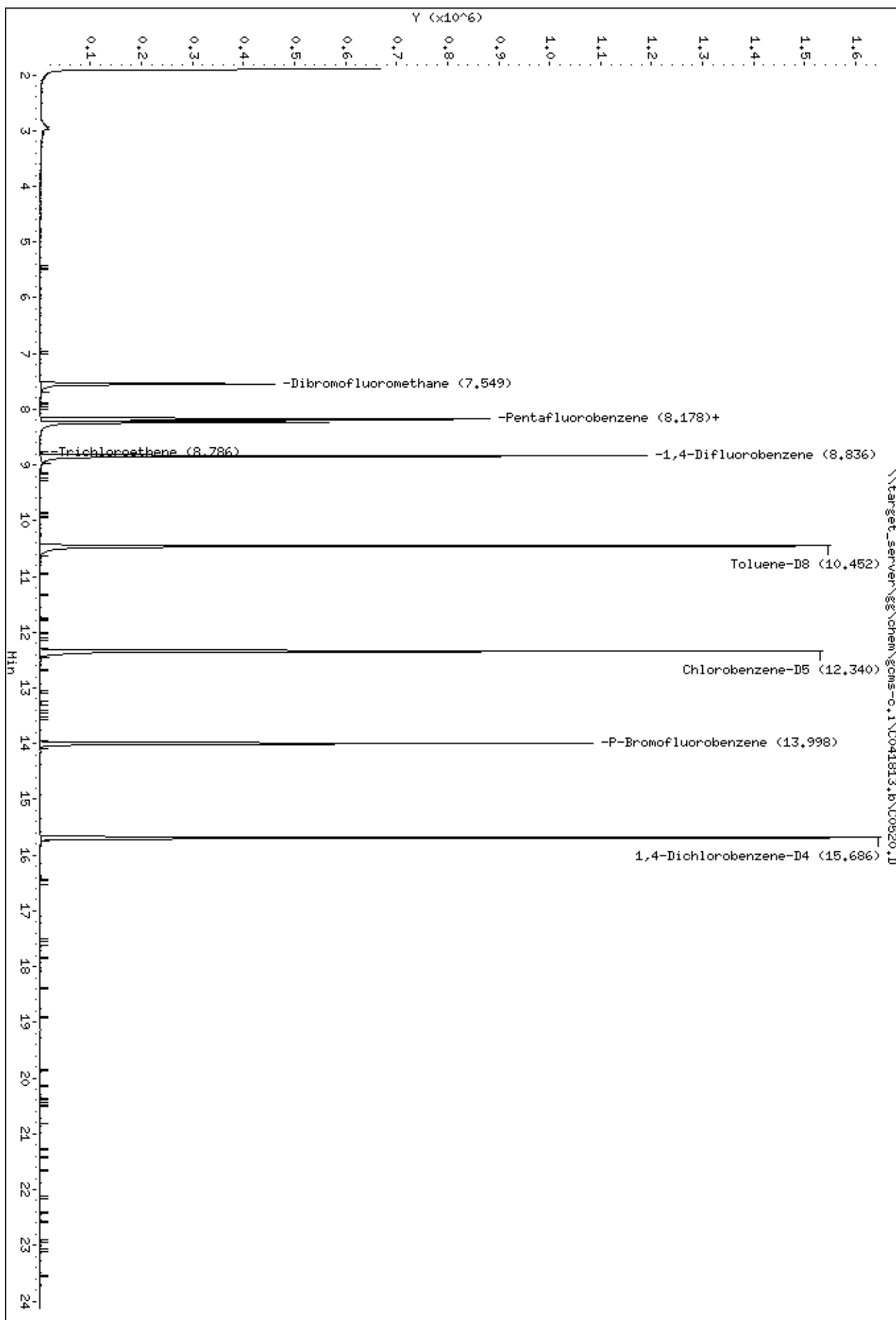
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						ON-COLUMN	FINAL	
Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 37 Dibromofluoromethane	113		7.548	7.550	(0.923)	277394	45.7866	45.8
* 42 Pentafluorobenzene	168		8.178	8.179	(1.000)	505564	50.0000	
\$ 45 1,2-Dichloroethane-D4	65		8.235	8.236	(1.007)	429413	54.2799	54.3
48 Trichloroethene	95		8.785	8.794	(0.994)	1979	0.36435	0.36(a)
* 49 1,4-Difluorobenzene	114		8.835	8.844	(1.000)	859726	50.0000	
\$ 55 Toluene-D8	98		10.451	10.453	(1.183)	927739	49.2275	49.2
* 66 Chlorobenzene-D5	117		12.339	12.340	(1.000)	831221	50.0000	
\$ 76 P-Bromofluorobenzene	95		13.998	13.999	(1.584)	400460	47.2883	47.3
* 91 1,4-Dichlorobenzene-D4	152		15.685	15.694	(1.000)	436909	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\gms-c.i\CO41813.b\CO520.D
Date: 18-APR-2013 15:16
Client ID: G009-HW02LTH040913
Sample Info: SG2375-7

Instrument: gms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0520.D

Date : 18-APR-2013 15:16

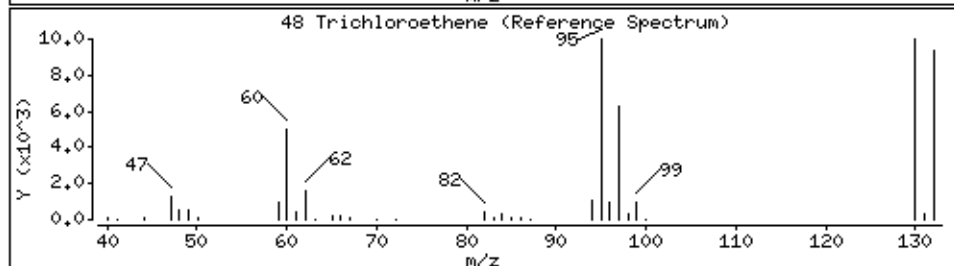
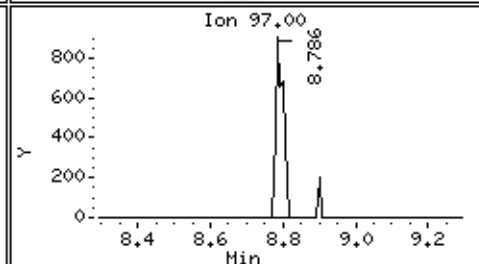
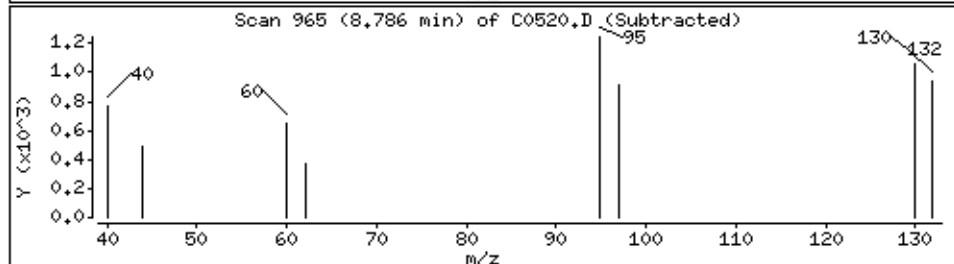
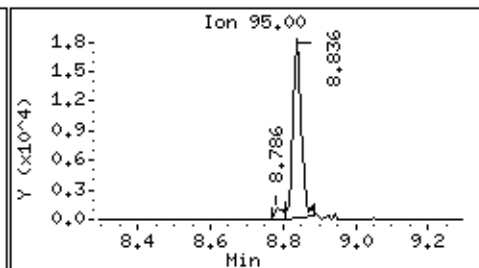
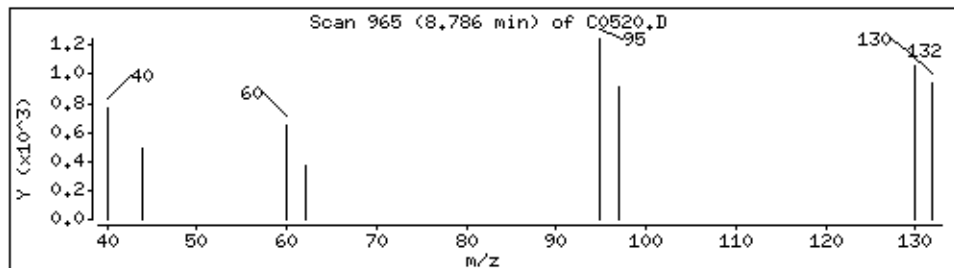
Client ID: G009-MW02LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-7

48 Trichloroethene

Concentration: 0,36 ug/l



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-8
Client ID: G009-MW01LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0521.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.46	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-8
Client ID: G009-MW01LTM040913
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0521.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	J	0.42	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		109.	%					
Toluene-d8		99.0	%					
P-Bromofluorobenzene		99.2	%					
Dibromofluoromethane		92.3	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0521.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0521.D
Lab Smp Id: SG2375-8 Client Smp ID: G009-MW01LTM040913
Inj Date : 18-APR-2013 15:48 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-8
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12

Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

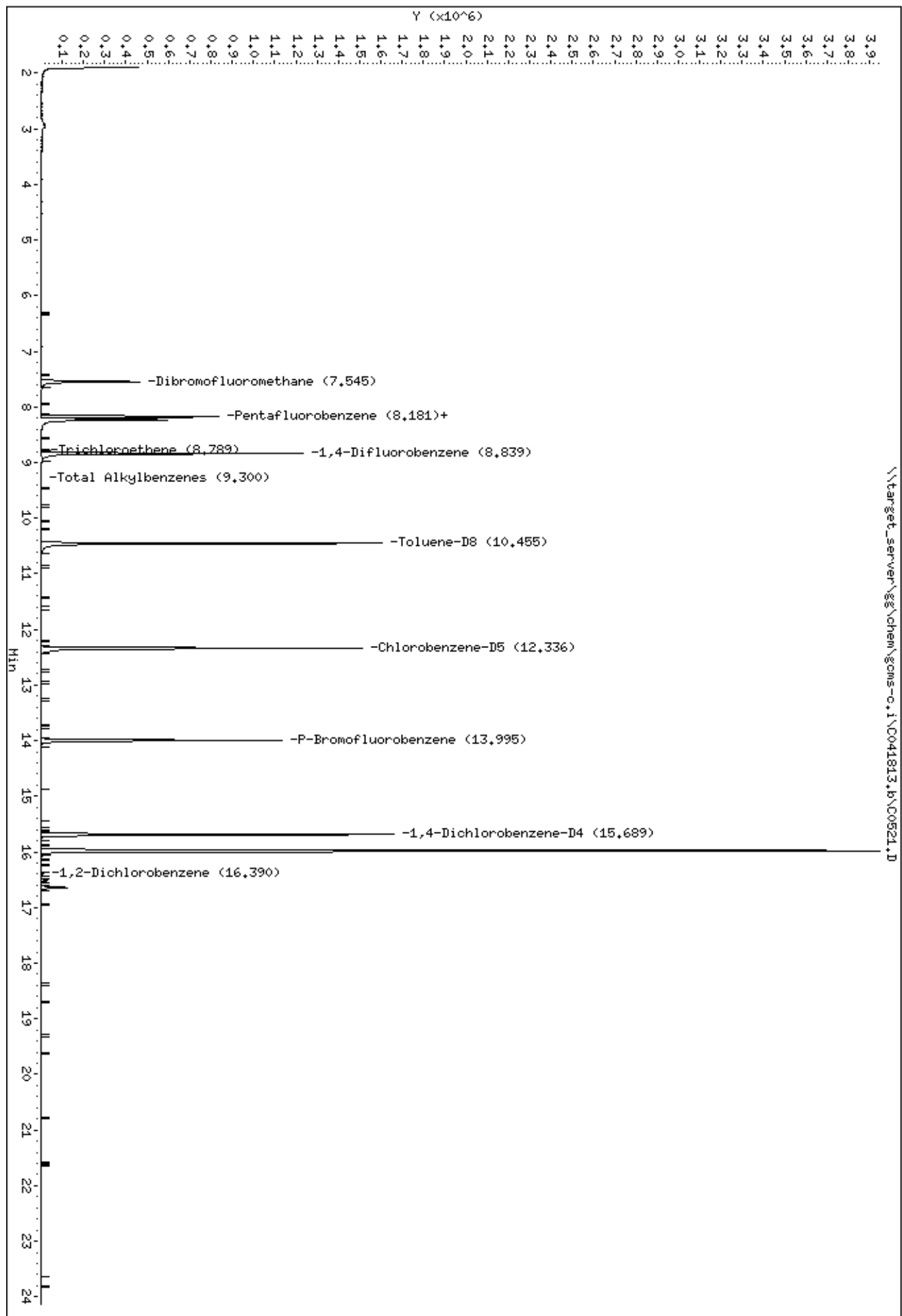
Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
\$ 37 Dibromofluoromethane	113	7.545	7.550	(0.922)	285921		46.1647	46.2	
* 42 Pentafluorobenzene	168	8.181	8.179	(1.000)	516837		50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236	(1.006)	439990		54.4038	54.4	
48 Trichloroethene	95	8.796	8.794	(0.995)	2491		0.45605	0.46(a)	
* 49 1,4-Difluorobenzene	114	8.839	8.844	(1.000)	864563		50.0000		
\$ 55 Toluene-D8	98	10.455	10.453	(1.183)	938669		49.5288	49.5	
* 66 Chlorobenzene-D5	117	12.335	12.340	(1.000)	834008		50.0000		
\$ 76 P-Bromofluorobenzene	95	13.994	13.999	(1.583)	422577		49.6208	49.6	
* 91 1,4-Dichlorobenzene-D4	152	15.689	15.694	(1.000)	437179		50.0000		
95 1,2-Dichlorobenzene	146	16.397	16.393	(1.045)	3982		0.42144	0.42(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\gms-c.i\CO41813.b\CO521.D
 Date : 18-APR-2013 15:48
 Client ID: G009-HW01LTH040913
 Sample Info: SG2375-8

Instrument: gms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0521.D

Date : 18-APR-2013 15:48

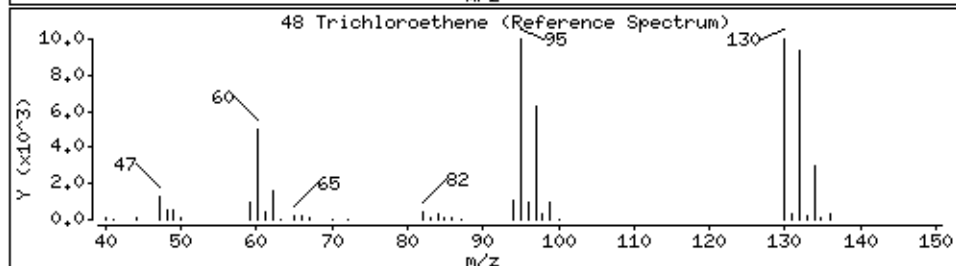
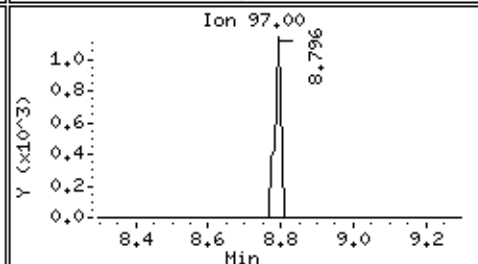
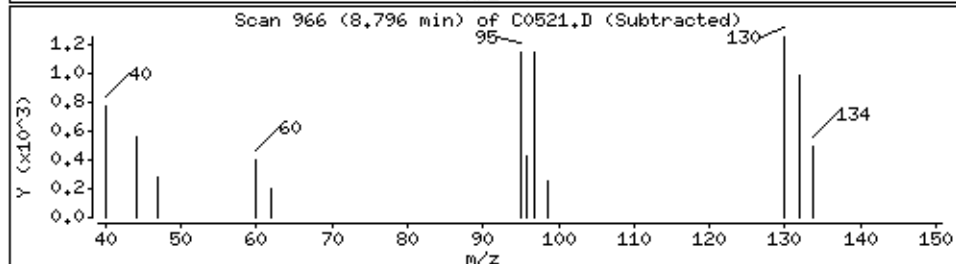
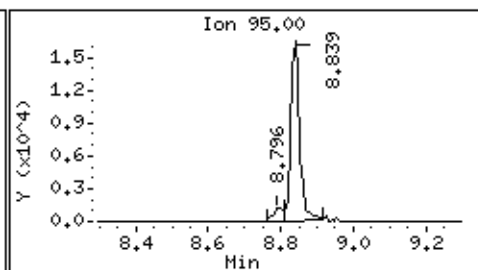
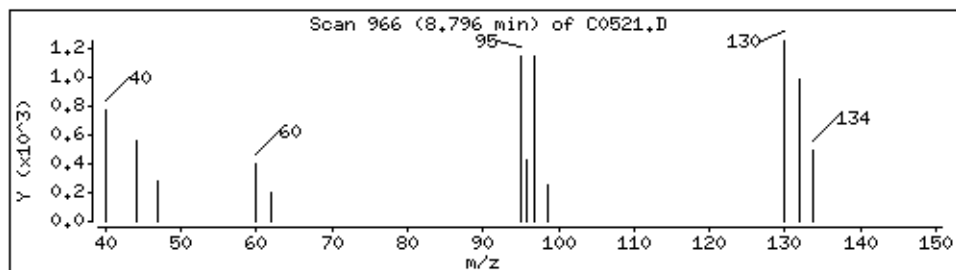
Client ID: G009-MW01LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-8

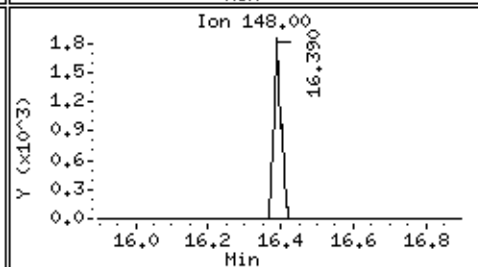
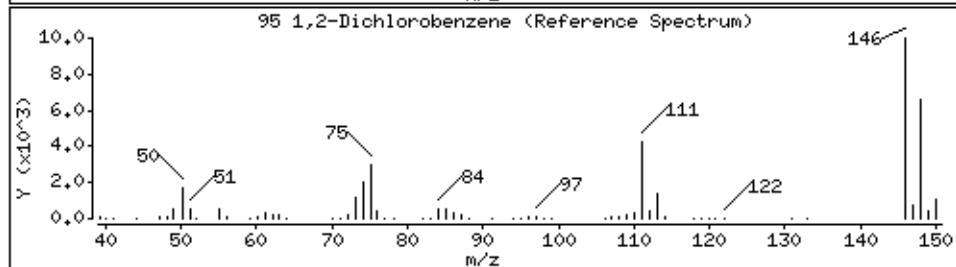
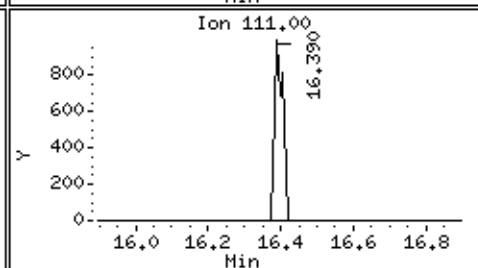
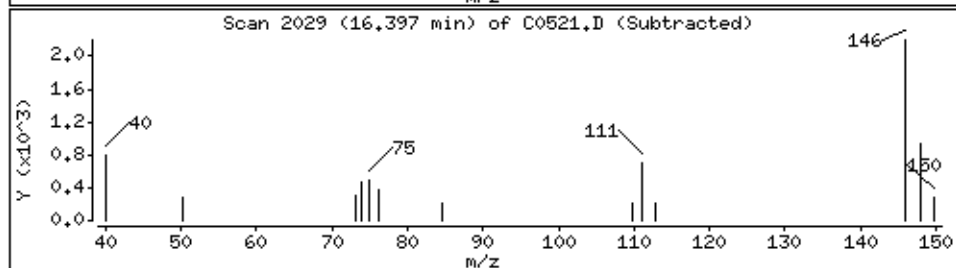
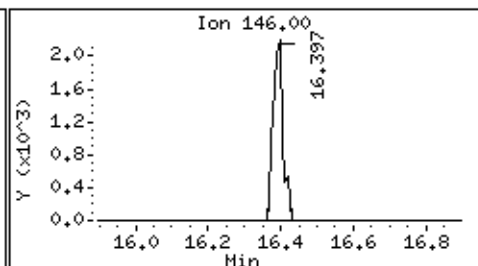
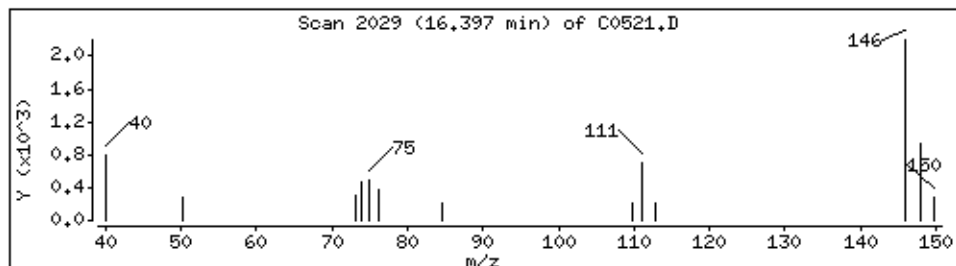
48 Trichloroethene

Concentration: 0.46 ug/l



95 1,2-Dichlorobenzene

Concentration: 0.42 ug/l



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-9
Client ID: AOC9-MW17LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0525.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	3.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.94	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		15	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		1.8	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-9
Client ID: AOC9-MW17LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0525.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		180	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.1	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		12	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		60	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		111.	%					
Toluene-d8		98.2	%					
P-Bromofluorobenzene		95.1	%					
Dibromofluoromethane		93.9	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0525.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0525.D
Lab Smp Id: SG2375-9 Client Smp ID: AOC9-MW17LTM040913
Inj Date : 18-APR-2013 17:54 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-9
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	18239	2.95102	3.0	
M 30 1,2-Dichloroethylene (total)	96				18239	2.95102	3.0	
\$ 37 Dibromofluoromethane	113	7.549	7.550	(0.923)	289701	46.9453	46.9	
41 Benzene	78	8.056	8.057	(0.911)	19821	0.94487	0.94(aM)	M10
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	514962	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.235	8.236	(1.007)	447291	55.5080	55.5	
48 Trichloroethene	95	8.793	8.794	(0.994)	83297	14.8141	14.8	
* 49 1,4-Difluorobenzene	114	8.843	8.844	(1.000)	890007	50.0000		
\$ 55 Toluene-D8	98	10.452	10.453	(1.182)	957835	49.0952	49.1	
59 Tetrachloroethene	164	10.959	10.960	(0.888)	7238	1.78697	1.8	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	859927	50.0000		
67 Chlorobenzene	112	12.361	12.362	(1.002)	2437893	183.805	184	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.583)	417044	47.5711	47.6	
90 1,3-Dichlorobenzene	146	15.571	15.572	(0.993)	11041	1.06988	1.1	
* 91 1,4-Dichlorobenzene-D4	152	15.685	15.694	(1.000)	447927	50.0000		
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.002)	144431	12.3612	12.4	
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	576101	59.5091	59.5	

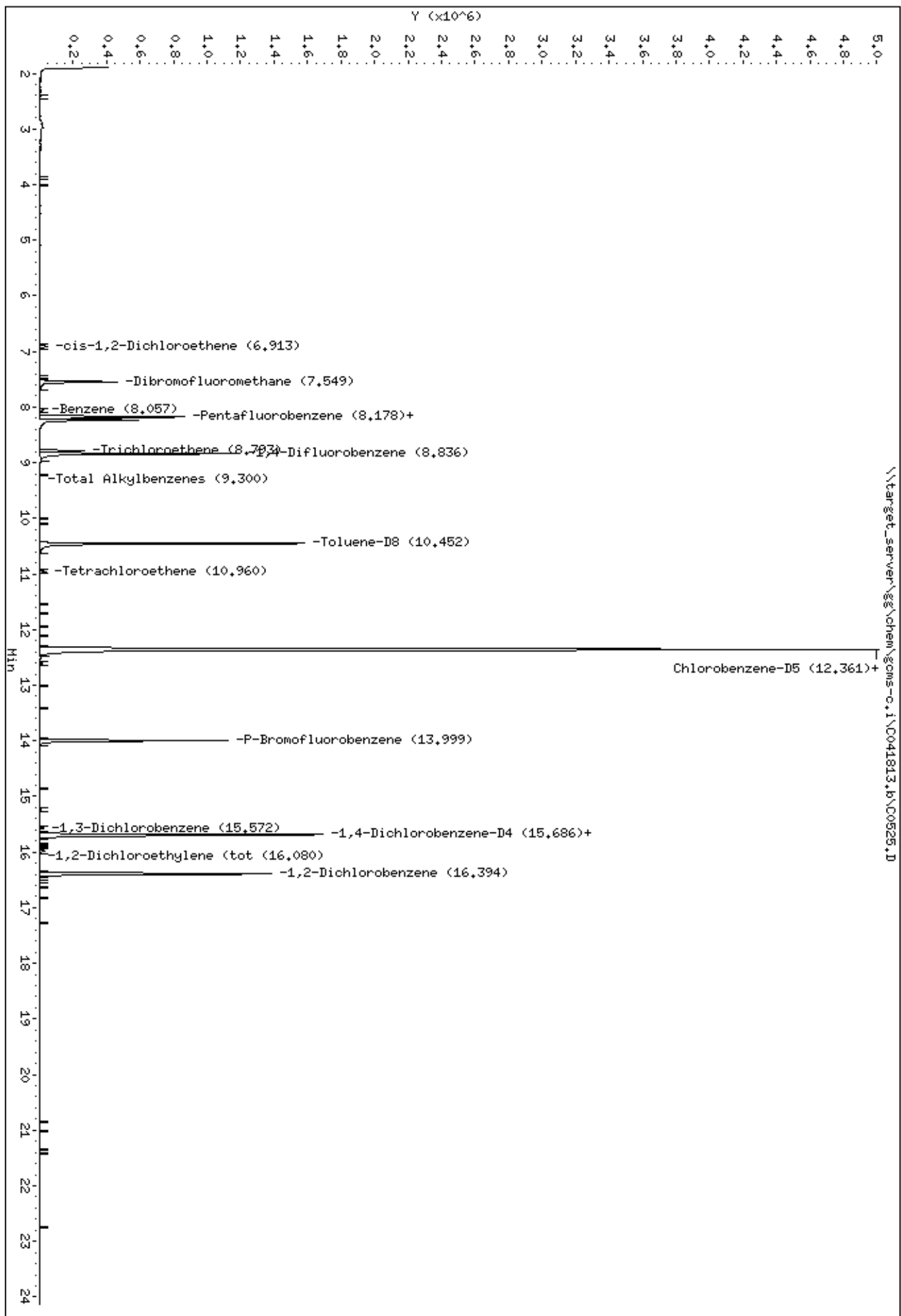
11:31 am, Apr 23, 2013

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

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 Date : 18-APR-2013 17:54
 Client ID: AOC9-HM17LTH040913
 Sample Info: SG2375-9

Instrument: gms-c.i



Data File: \\target_server\gg\chem\gms-c.i\C041813,b\C0525.D

Date : 18-APR-2013 17:54

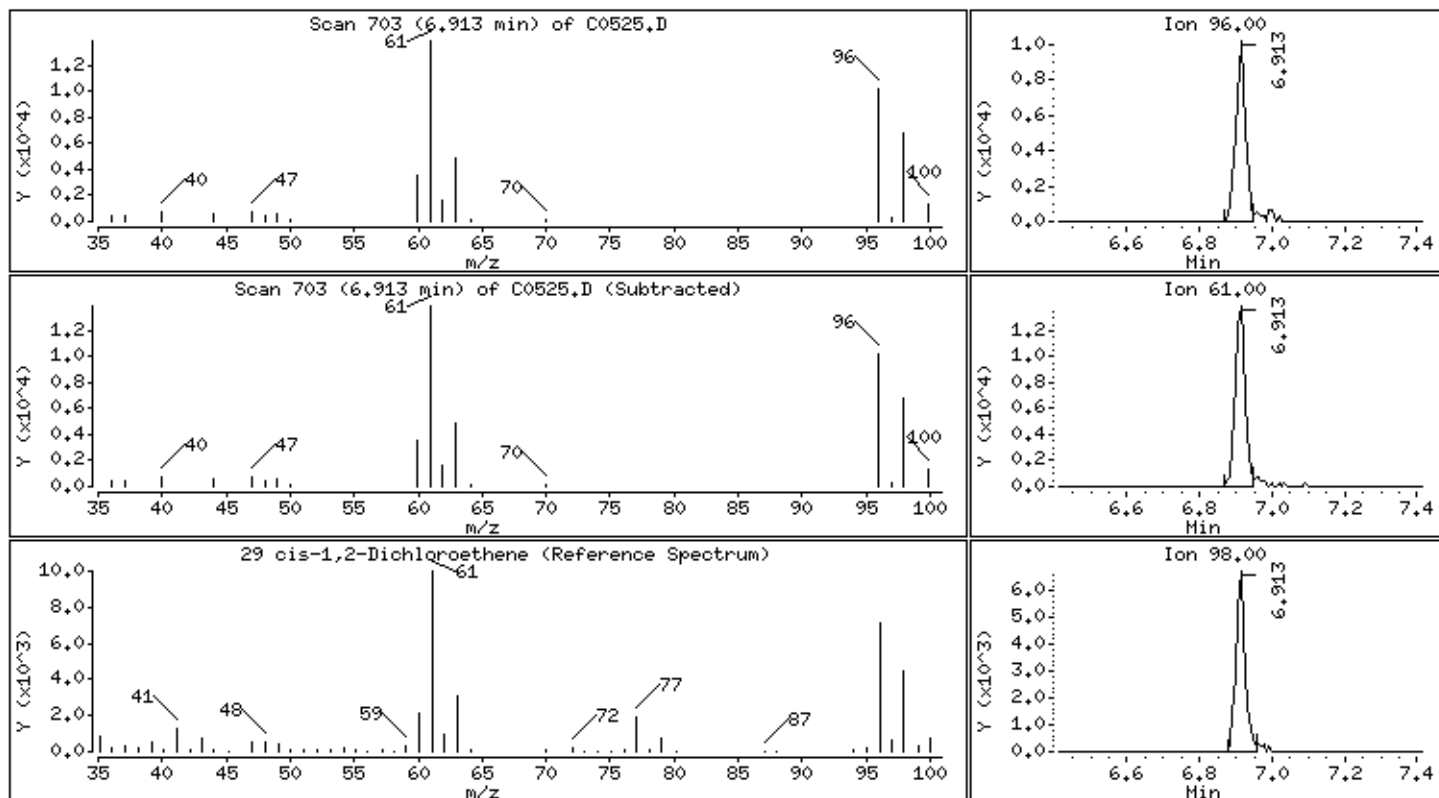
Client ID: AOC9-MW17LTH040913

Instrument: gms-c.i

Sample Info: SG2375-9

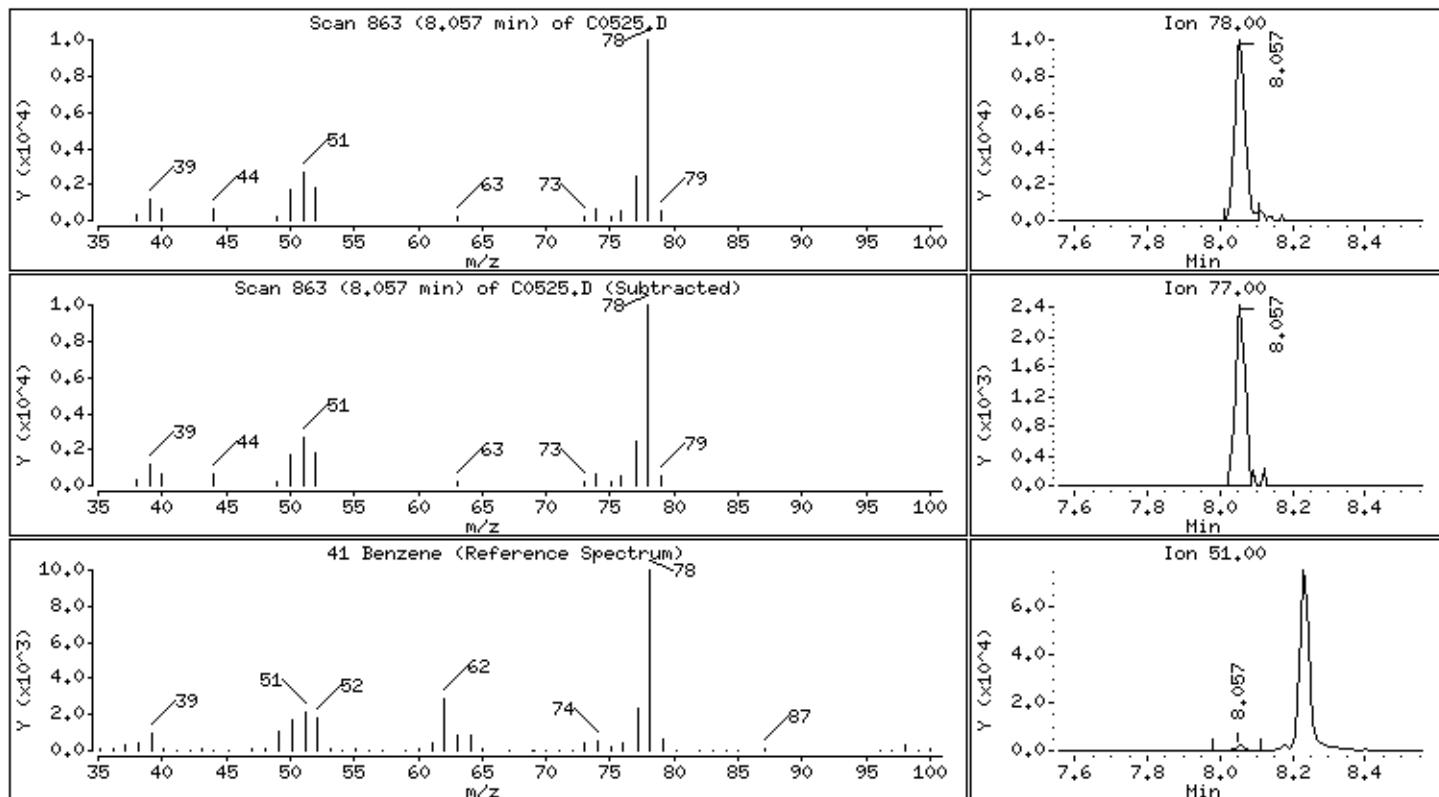
29 cis-1,2-Dichloroethene

Concentration: 3.0 ug/l



41 Benzene

Concentration: 0.94 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0525.D

Date : 18-APR-2013 17:54

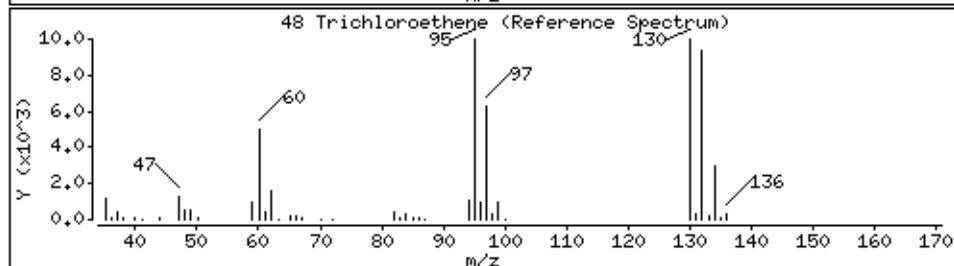
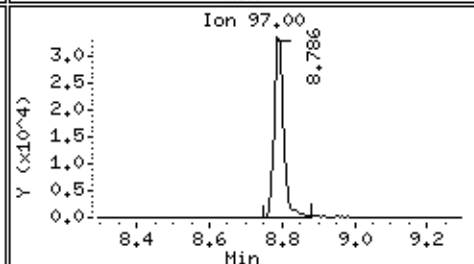
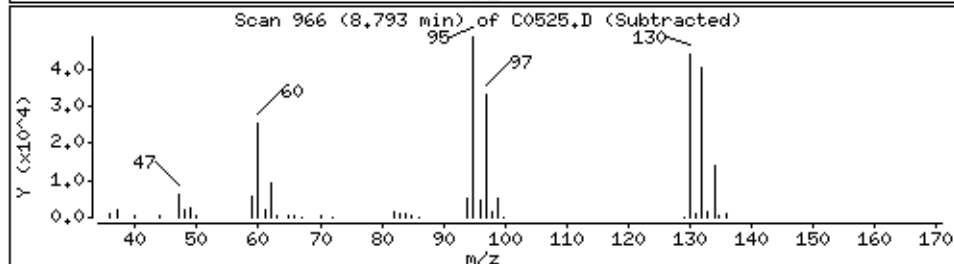
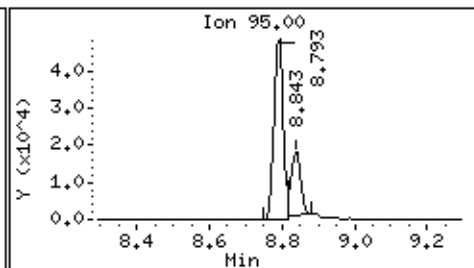
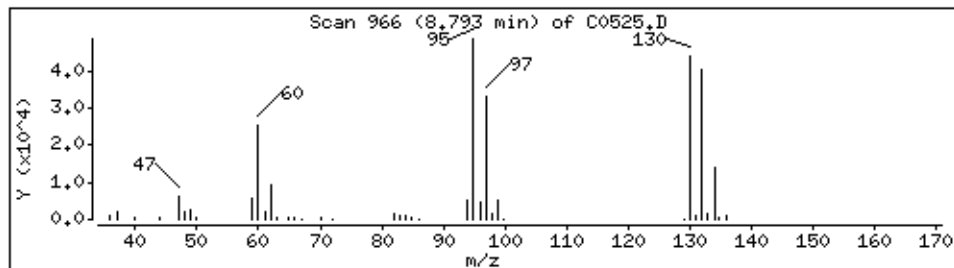
Client ID: AOC9-MW17LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-9

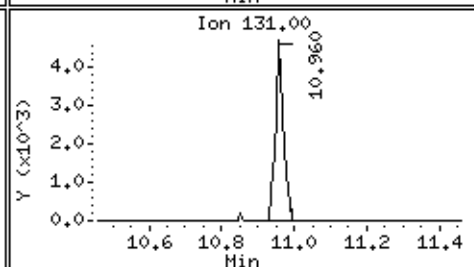
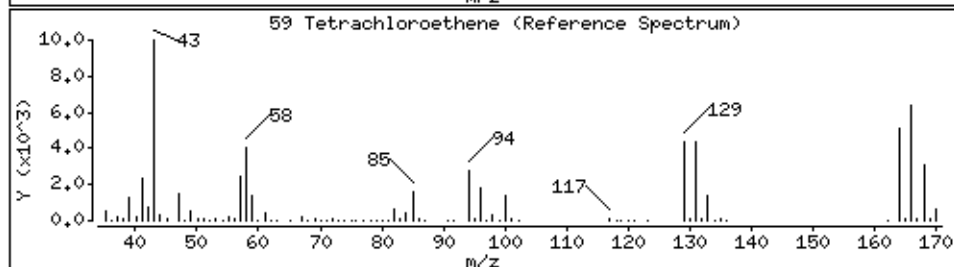
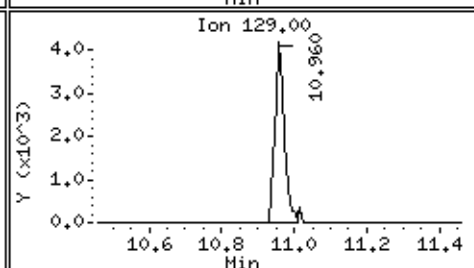
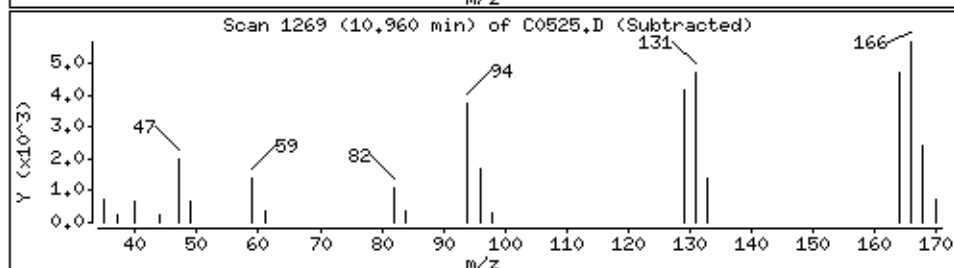
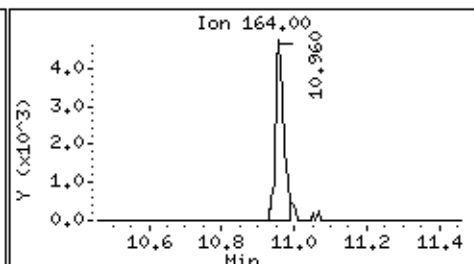
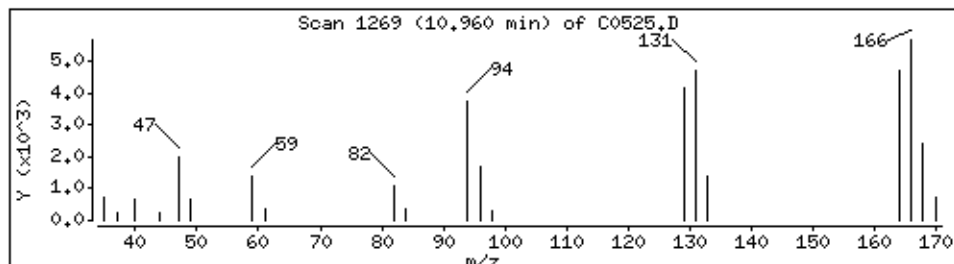
48 Trichloroethene

Concentration: 14.8 ug/l



59 Tetrachloroethene

Concentration: 1.8 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041813,b\C0525.D

Date : 18-APR-2013 17:54

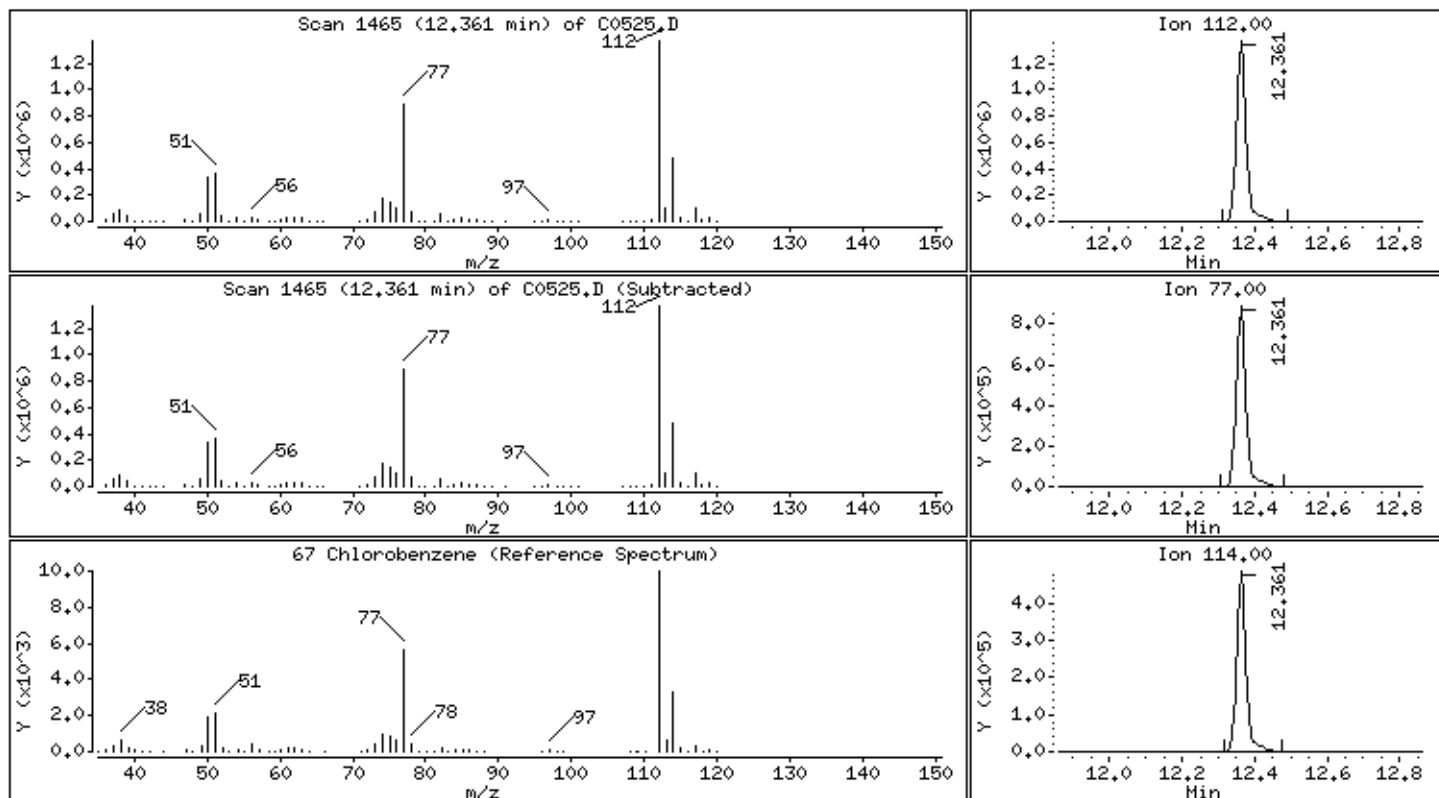
Client ID: AOC9-MW17LTH040913

Instrument: gms-c.i

Sample Info: SG2375-9

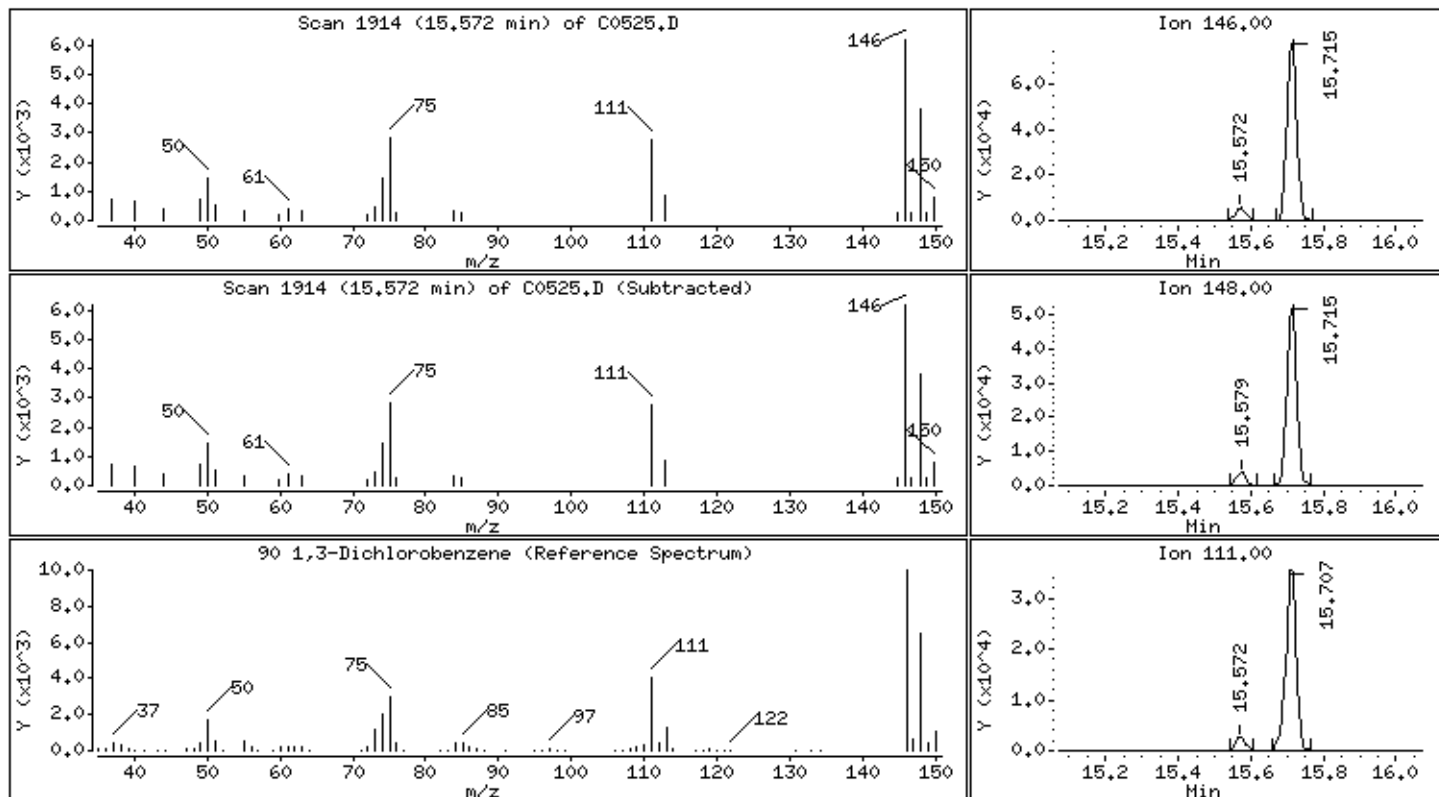
67 Chlorobenzene

Concentration: 184 ug/l



90 1,3-Dichlorobenzene

Concentration: 1.1 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0525.D

Date : 18-APR-2013 17:54

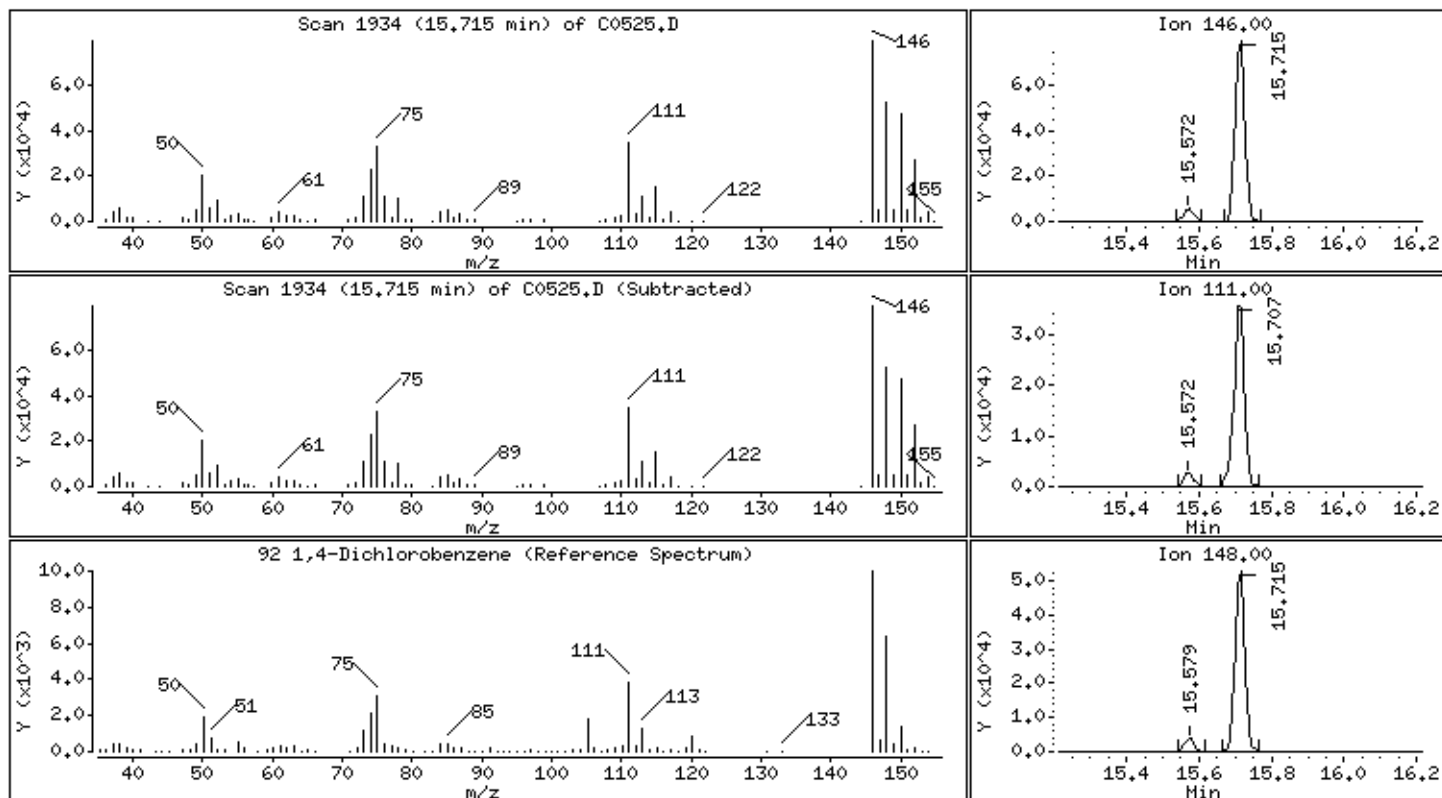
Client ID: AOC9-MW17LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-9

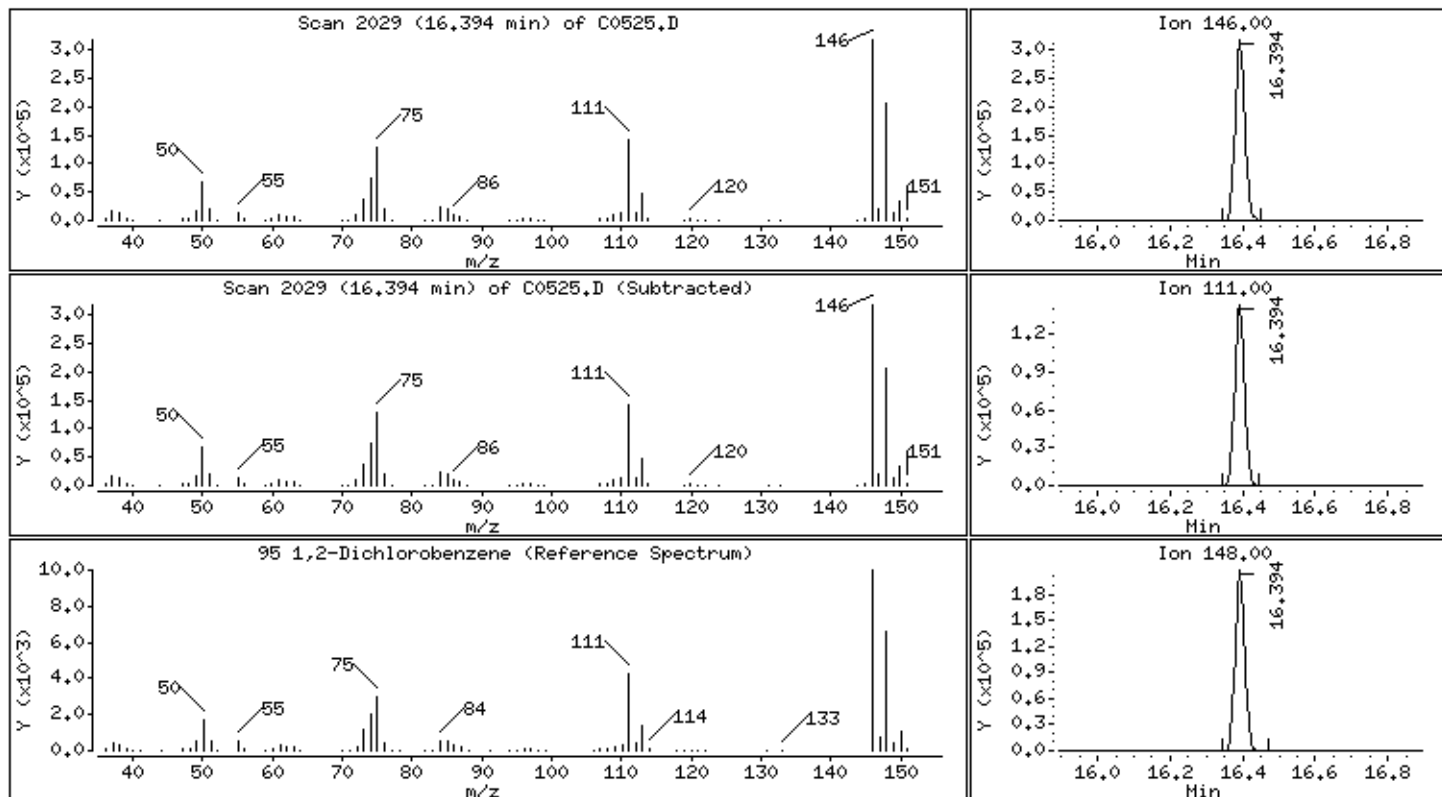
92 1,4-Dichlorobenzene

Concentration: 12.4 ug/l



95 1,2-Dichlorobenzene

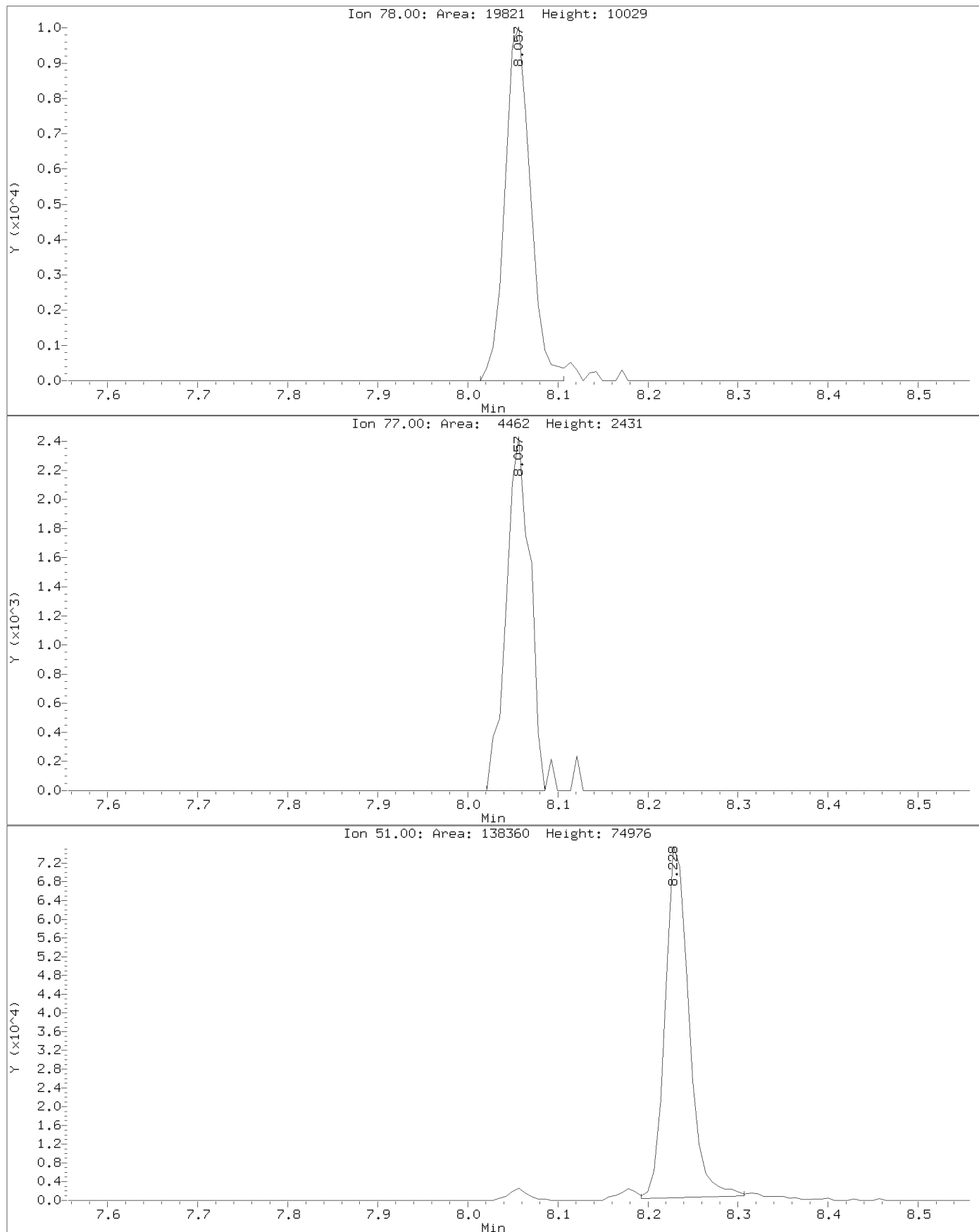
Concentration: 59.5 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\0041813.b\00525.D
Injection Date: 18-APR-2013 17:54
Instrument: gcms-c.i
Client Sample ID: AOC9-MW17LTM040913

BEFORE MANUAL INTEGRATION

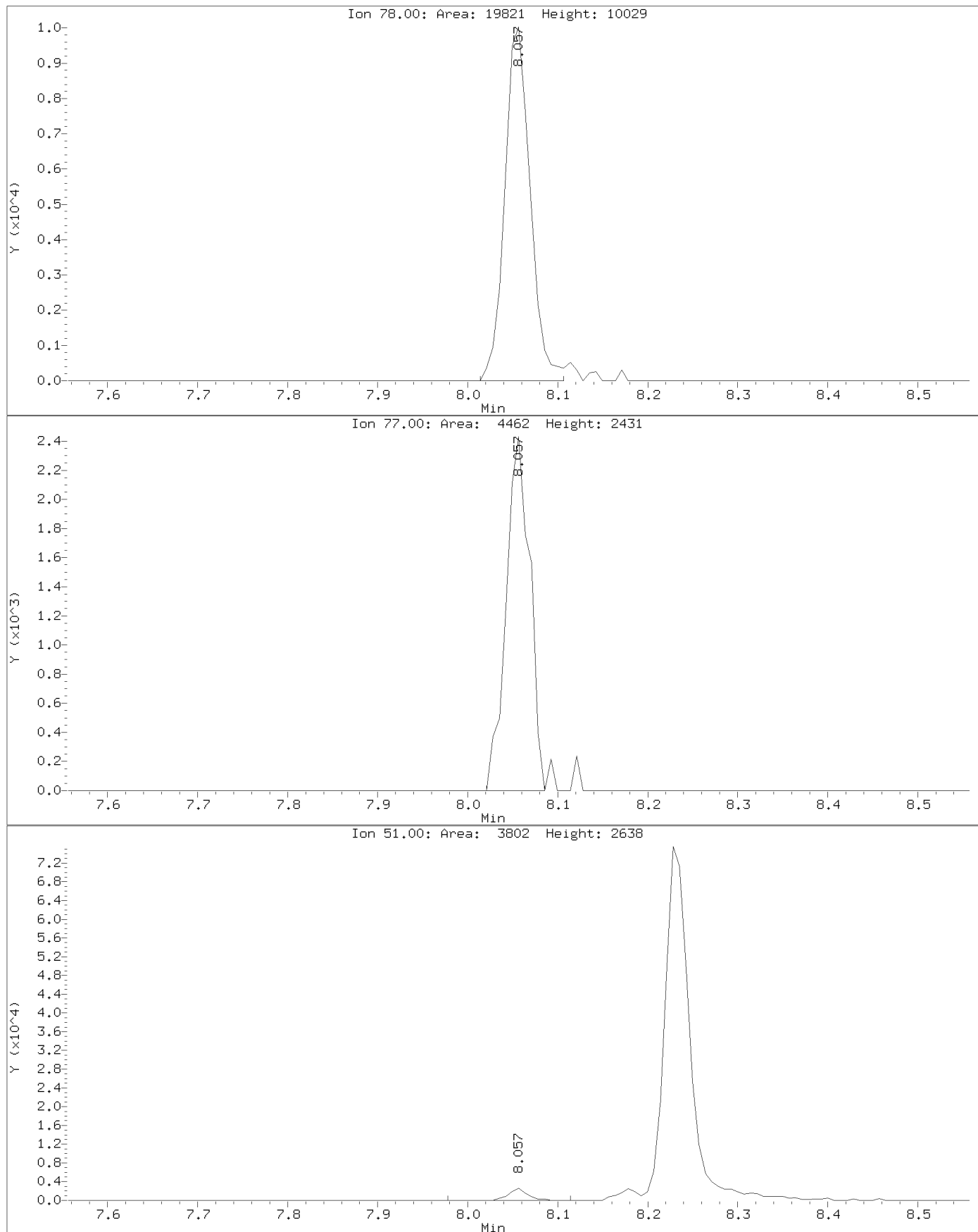
Compound: Benzene
CAS Number: 71-43-2



Data File: \\target_server\gg\chem\gcms-c.i\0041813.b\00525.D
Injection Date: 18-APR-2013 17:54
Instrument: gcms-c.i
Client Sample ID: AOC9-MW17LTM040913

AFTER MANUAL INTEGRATION

Compound: Benzene
CAS Number: 71-43-2



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0526.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	JL	0.59	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.85	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.70	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	J	0.36	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0526.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	340	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		1.7	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		2.3	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		23	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		73	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.1	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.8	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.49	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		98.9	%					
P-Bromofluorobenzene		97.2	%					
Dibromofluoromethane		91.1	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0526.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0526.D
Lab Smp Id: SG2375-10 Client Smp ID: AOC9-MW15LTM040913
Inj Date : 18-APR-2013 18:27 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-10
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12

Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

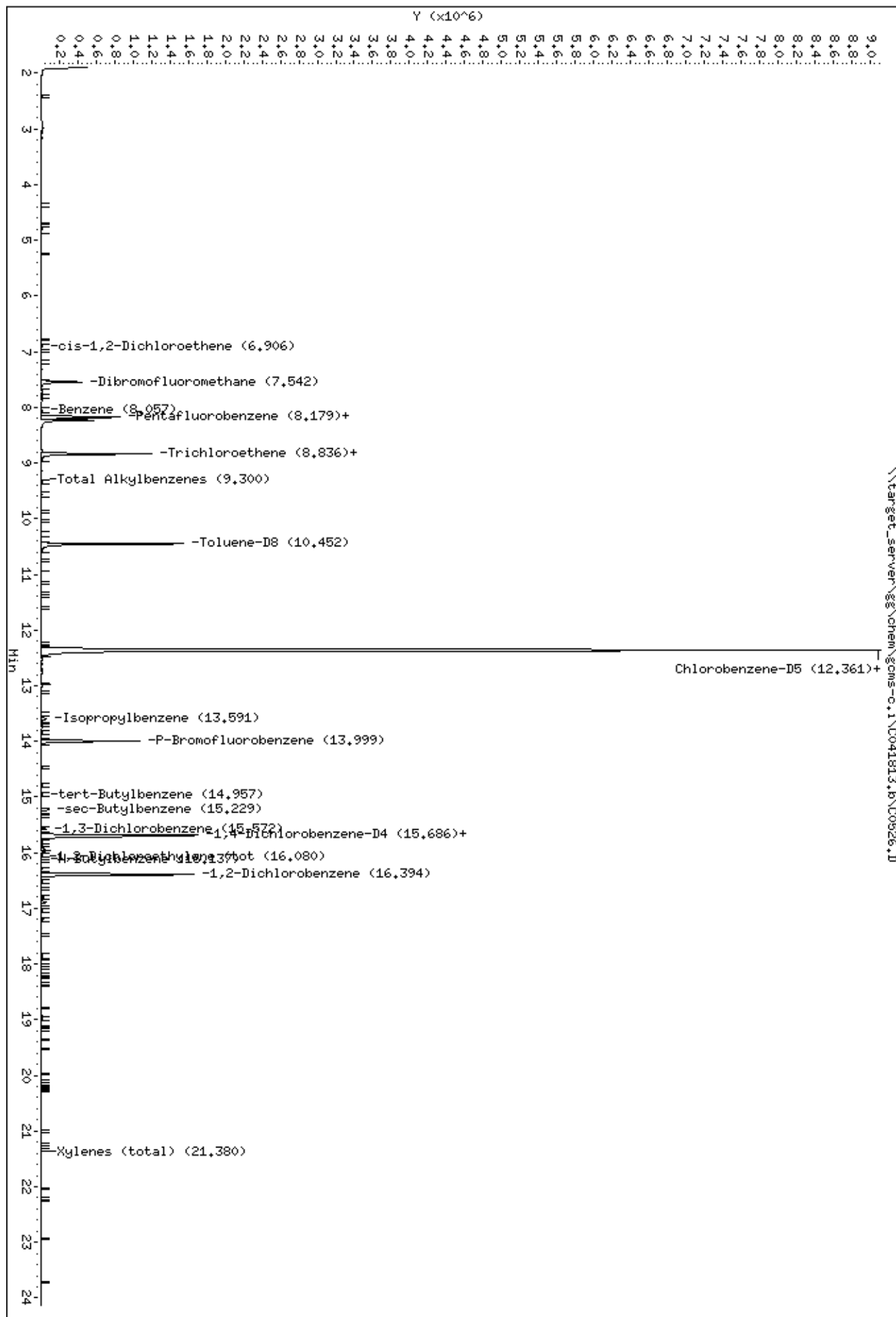
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	3581	0.59068	0.59(a)		
M 30 1,2-Dichloroethylene (total)	96				3581	0.59068	0.59(a)		
\$ 37 Dibromofluoromethane	113	7.542	7.550	(0.922)	275802	45.5630	45.6		
41 Benzene	78	8.056	8.057	(0.912)	16954	0.84849	0.85(aM)		M10
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	505129	50.0000			
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236	(1.006)	407842	51.5976	51.6		
48 Trichloroethene	95	8.786	8.794	(0.994)	3745	0.69924	0.70(a)		
* 49 1,4-Difluorobenzene	114	8.836	8.844	(1.000)	847745	50.0000			
\$ 55 Toluene-D8	98	10.452	10.453	(1.183)	918803	49.4423	49.4		
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	855214	50.0000			
67 Chlorobenzene	112	12.361	12.362	(1.002)	4528739	343.326	343(A)		
75 Isopropylbenzene	105	13.591	13.592	(0.866)	35959	1.71101	1.7		
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.584)	405646	48.5777	48.6		
86 tert-Butylbenzene	119	14.956	14.957	(0.954)	8828	0.48817	0.49(a)		
90 1,3-Dichlorobenzene	146	15.571	15.572	(0.993)	23596	2.32760	2.3		
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	440010	50.0000			
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.002)	265342	23.1181	23.1		
93 N-Butylbenzene	91	16.136	16.143	(1.029)	4532	1.13864	1.1		
94 sec-Butylbenzene	105	15.235	15.236	(0.971)	43338	1.75287	1.8		
95 1,2-Dichlorobenzene	146	16.394	16.393	(1.045)	695492	73.1343	73.1		
104 Methylcyclohexane	83	8.786	8.772	(1.074)	2906	0.36048	0.36(a)		
M 153 Total Alkylbenzenes	100				56698	3.37968	3.4(a)		

11:31 am, Apr 23, 2013

Data File: \\target_server\gs\chem\goms-c.i\CO41813.b\CO526.D
 Date: 18-APR-2013 18:27
 Client ID: AOC9-HM15LTH040913
 Sample Info: SG2375-10

Instrument: goms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0526.D

Date : 18-APR-2013 18:27

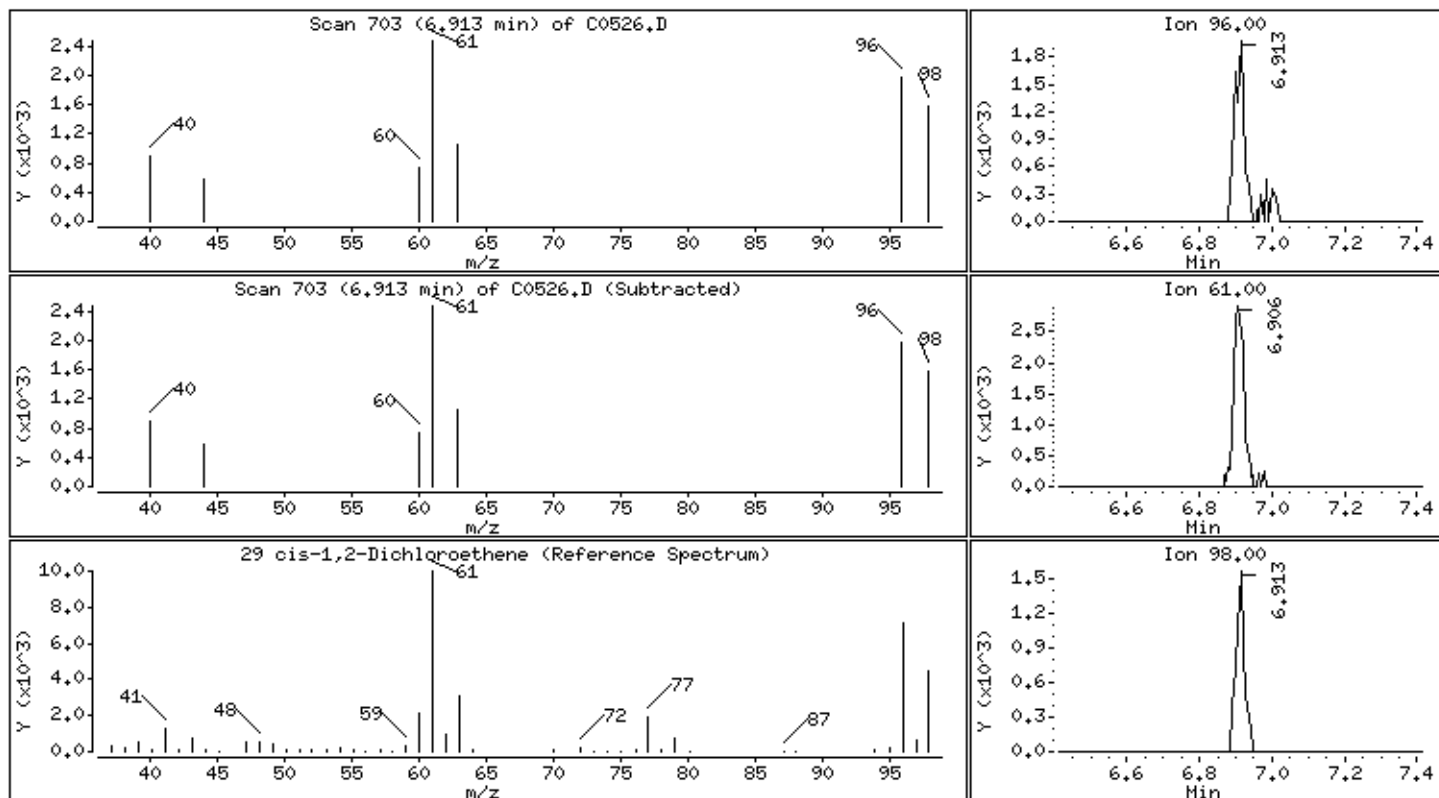
Client ID: AOC9-MW15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10

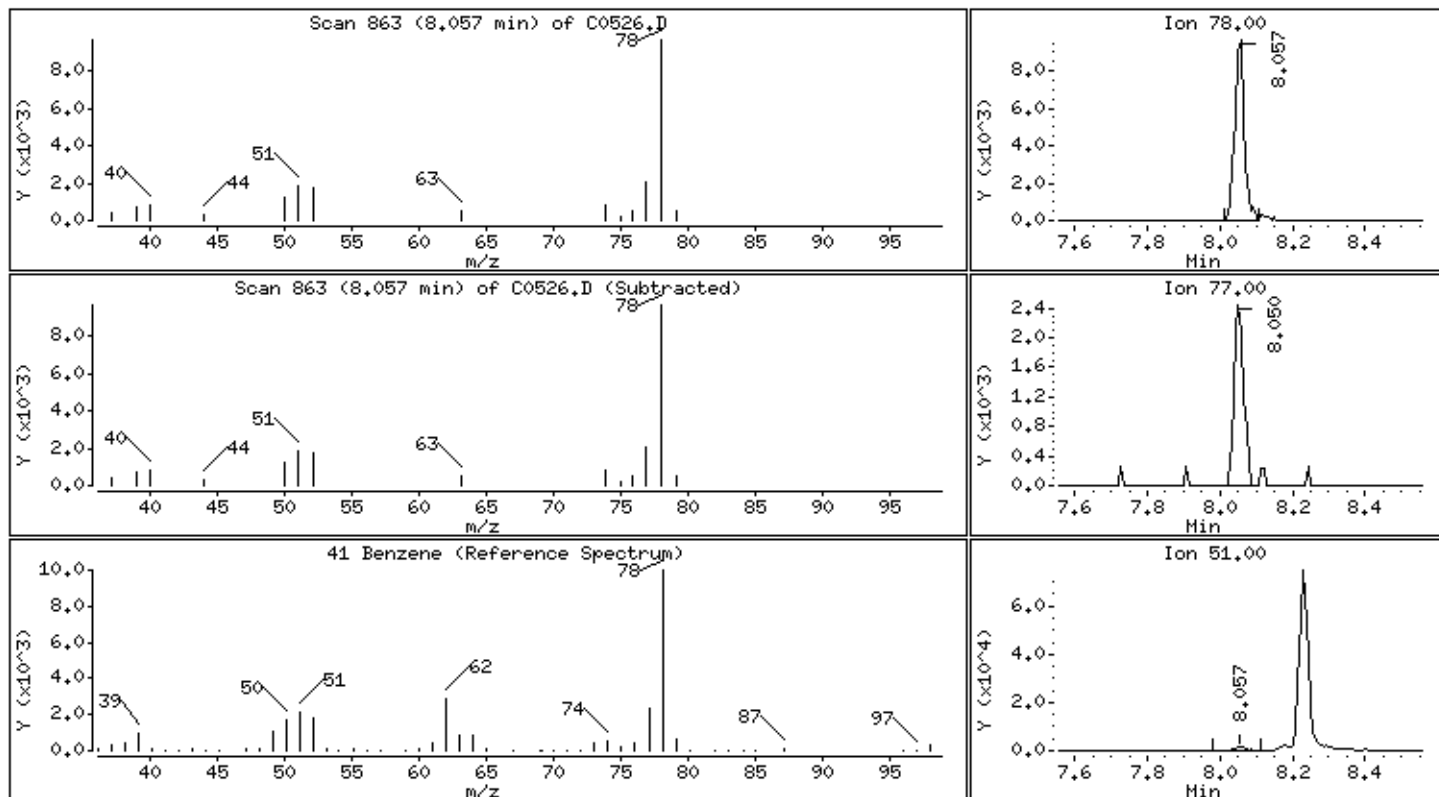
29 cis-1,2-Dichloroethene

Concentration: 0.59 ug/l



41 Benzene

Concentration: 0.85 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0526.D

Date : 18-APR-2013 18:27

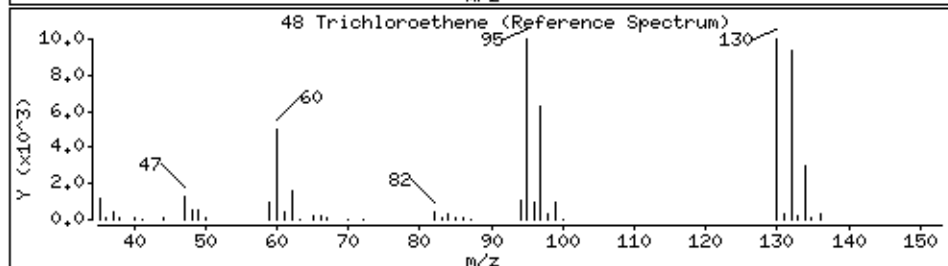
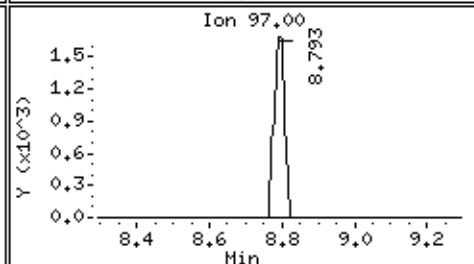
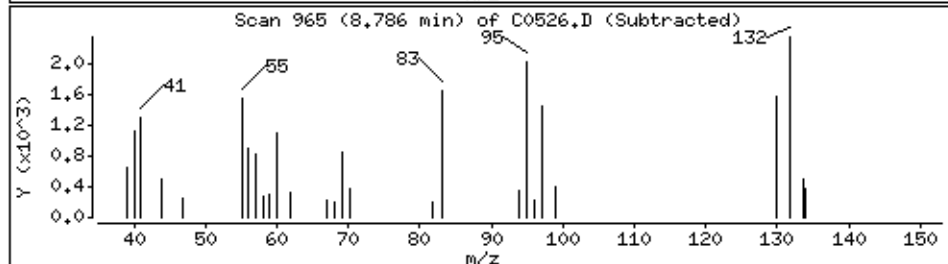
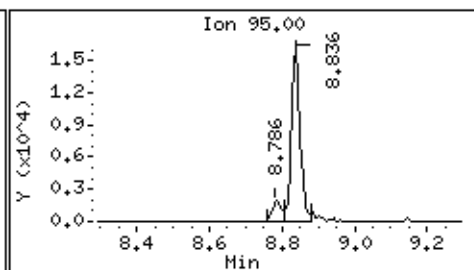
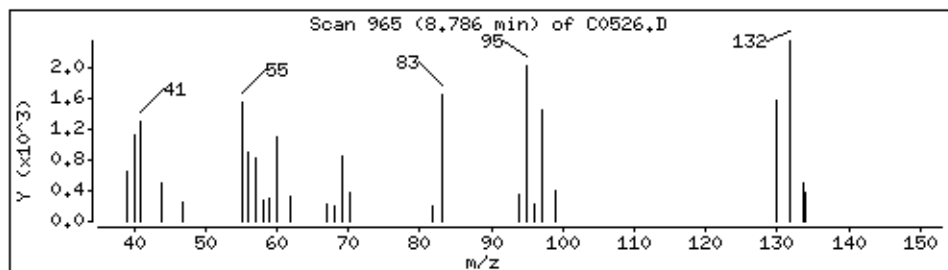
Client ID: AOC9-MW15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10

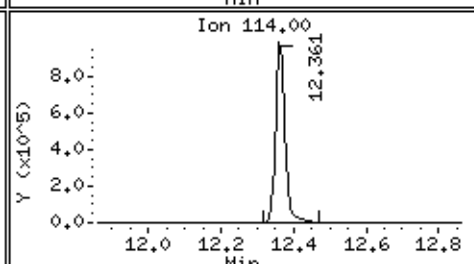
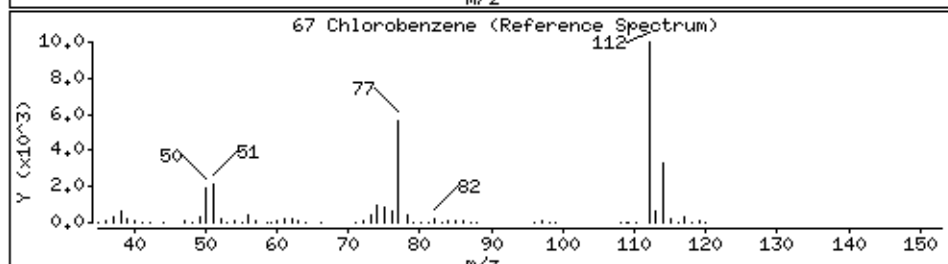
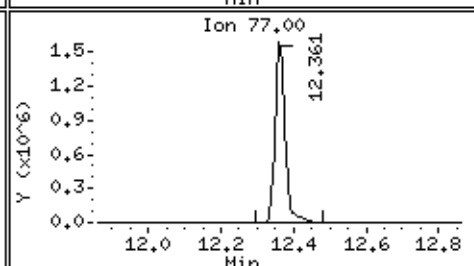
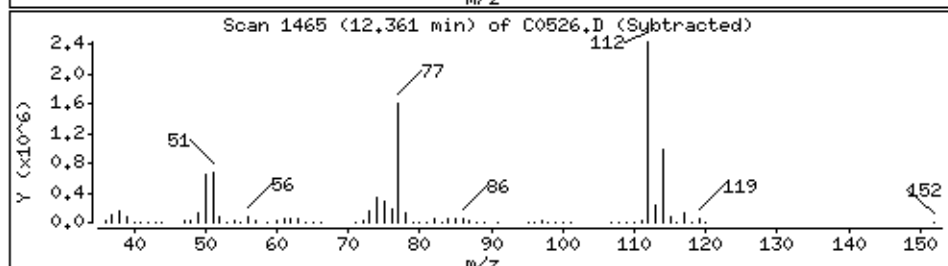
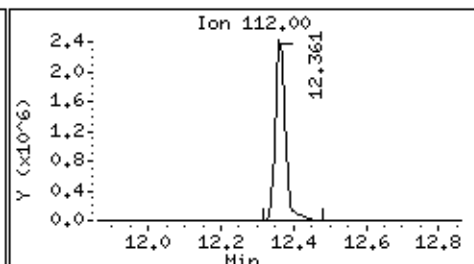
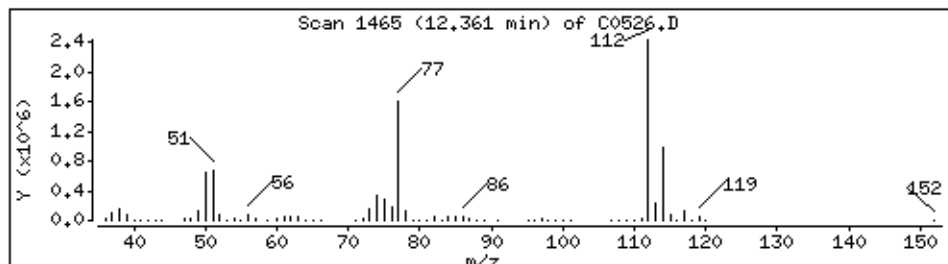
48 Trichloroethene

Concentration: 0.70 ug/l



67 Chlorobenzene

Concentration: 343 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041813,b\C0526.D

Date : 18-APR-2013 18:27

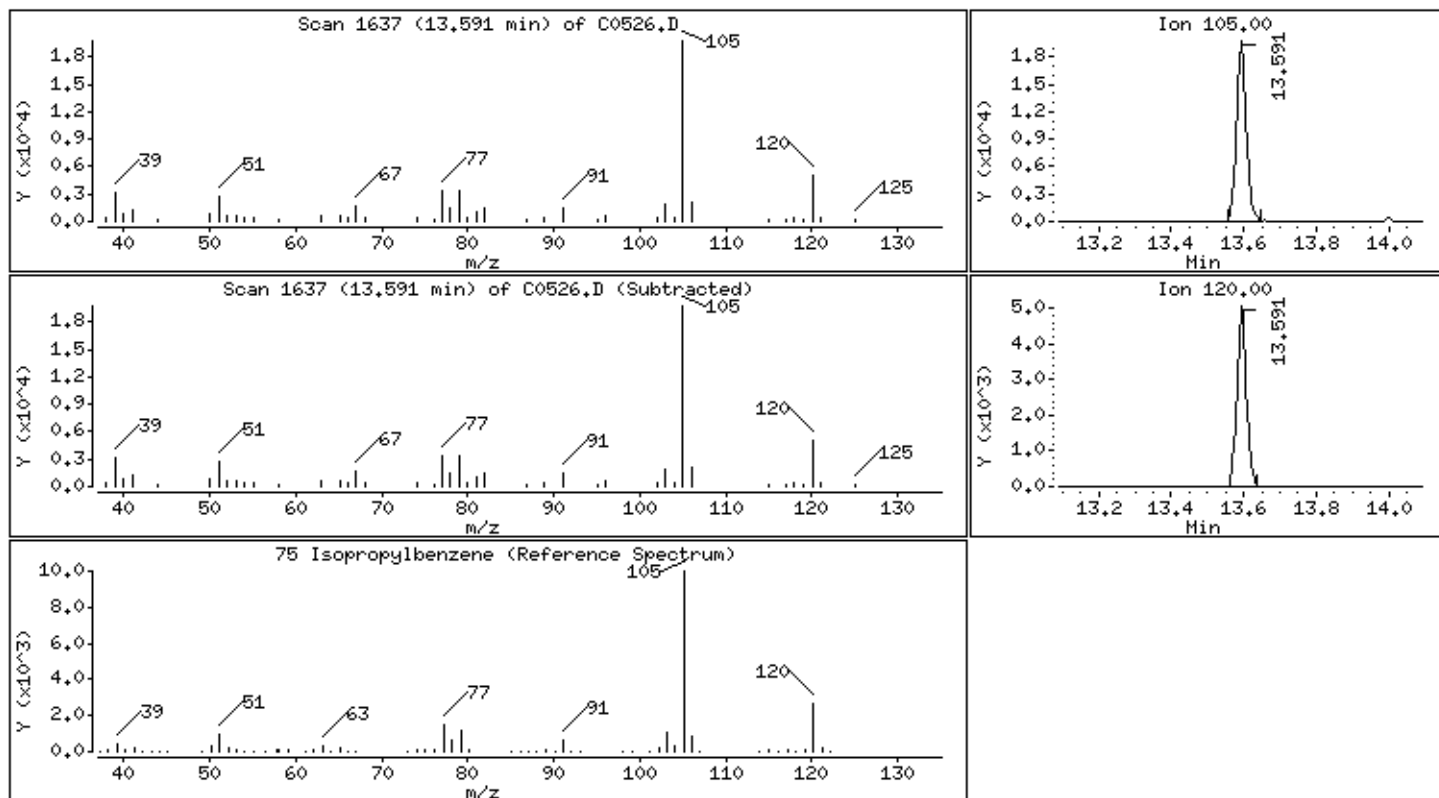
Client ID: AOC9-MW15LTH040913

Instrument: gms-c.i

Sample Info: SG2375-10

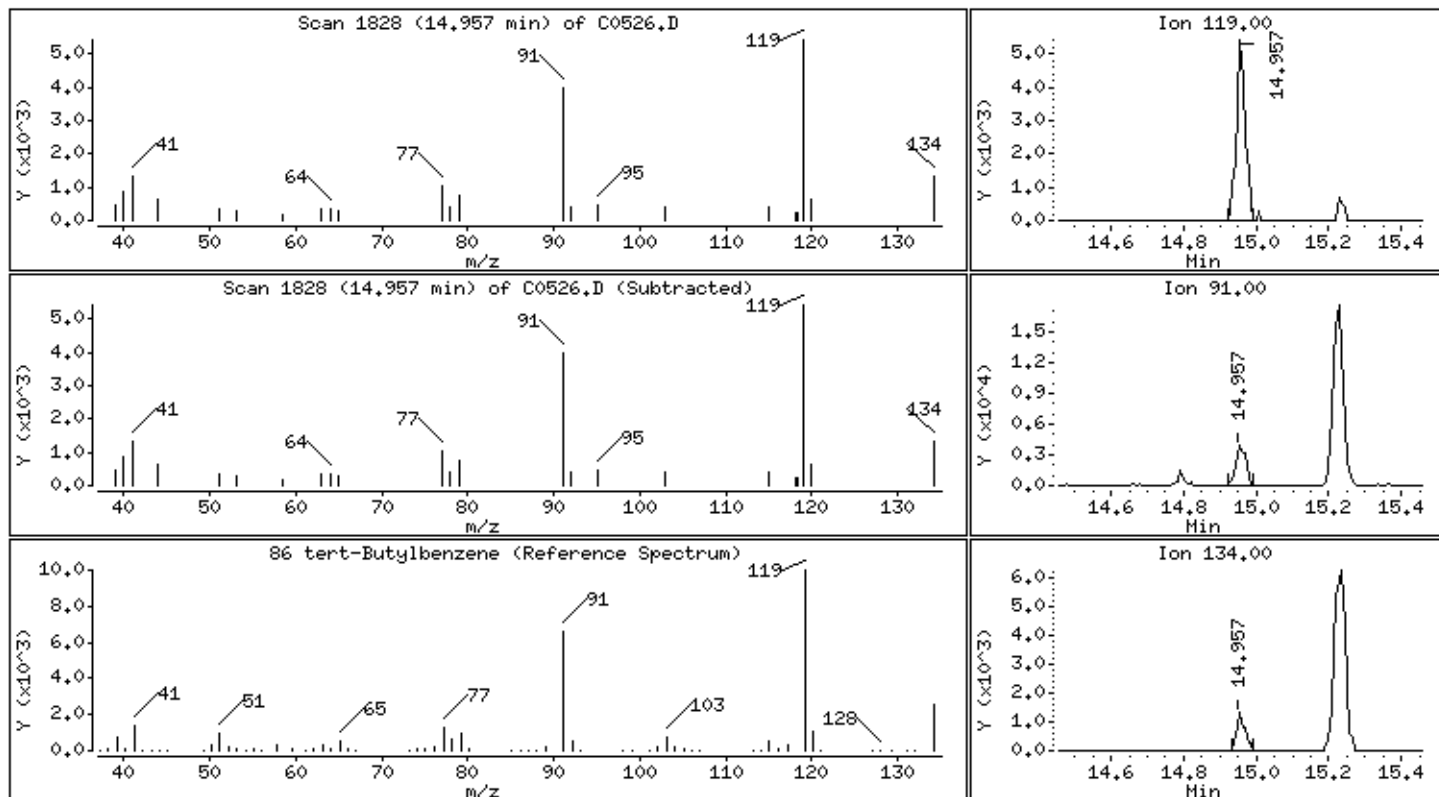
75 Isopropylbenzene

Concentration: 1.7 ug/l



86 tert-Butylbenzene

Concentration: 0.49 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0526.D

Date : 18-APR-2013 18:27

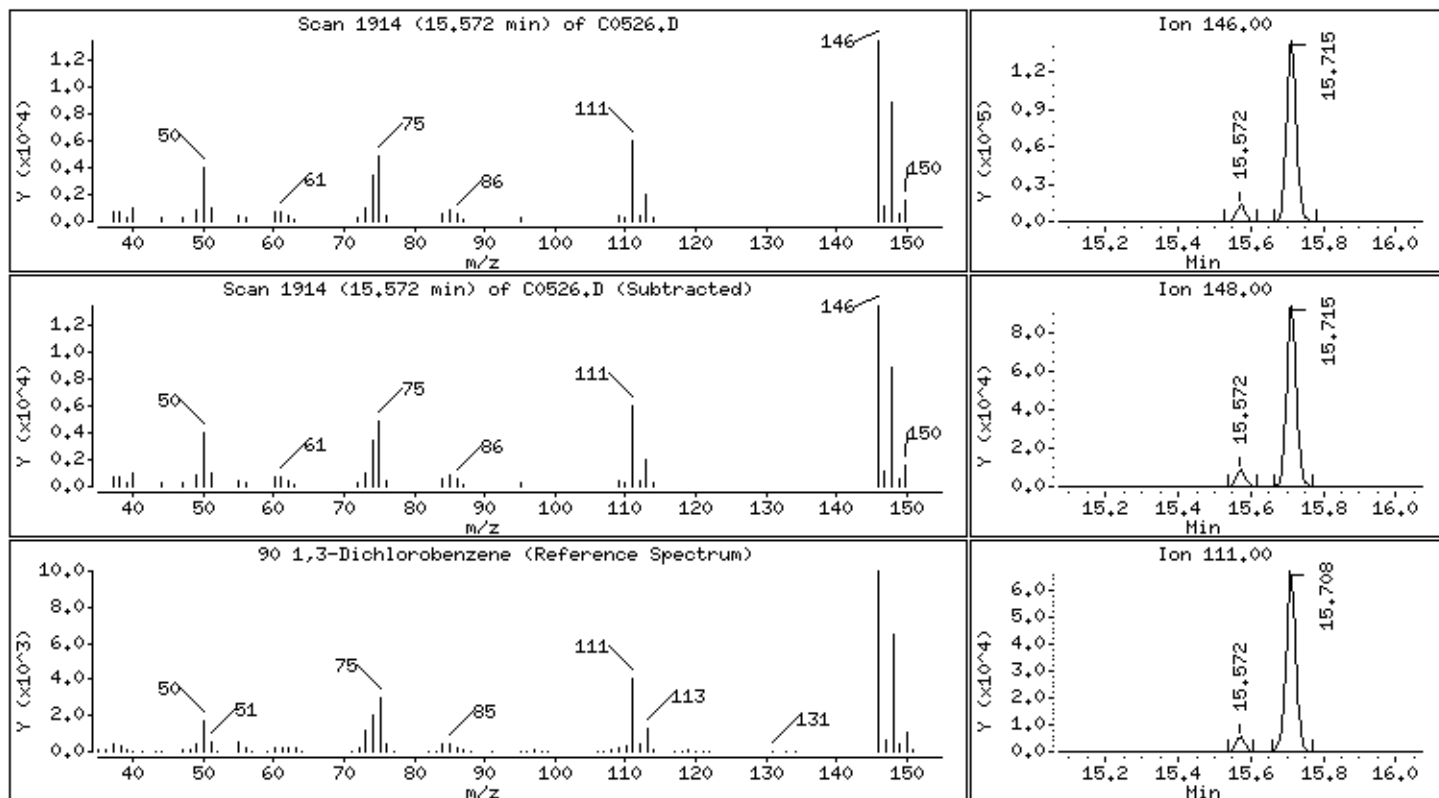
Client ID: AOC9-MW15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10

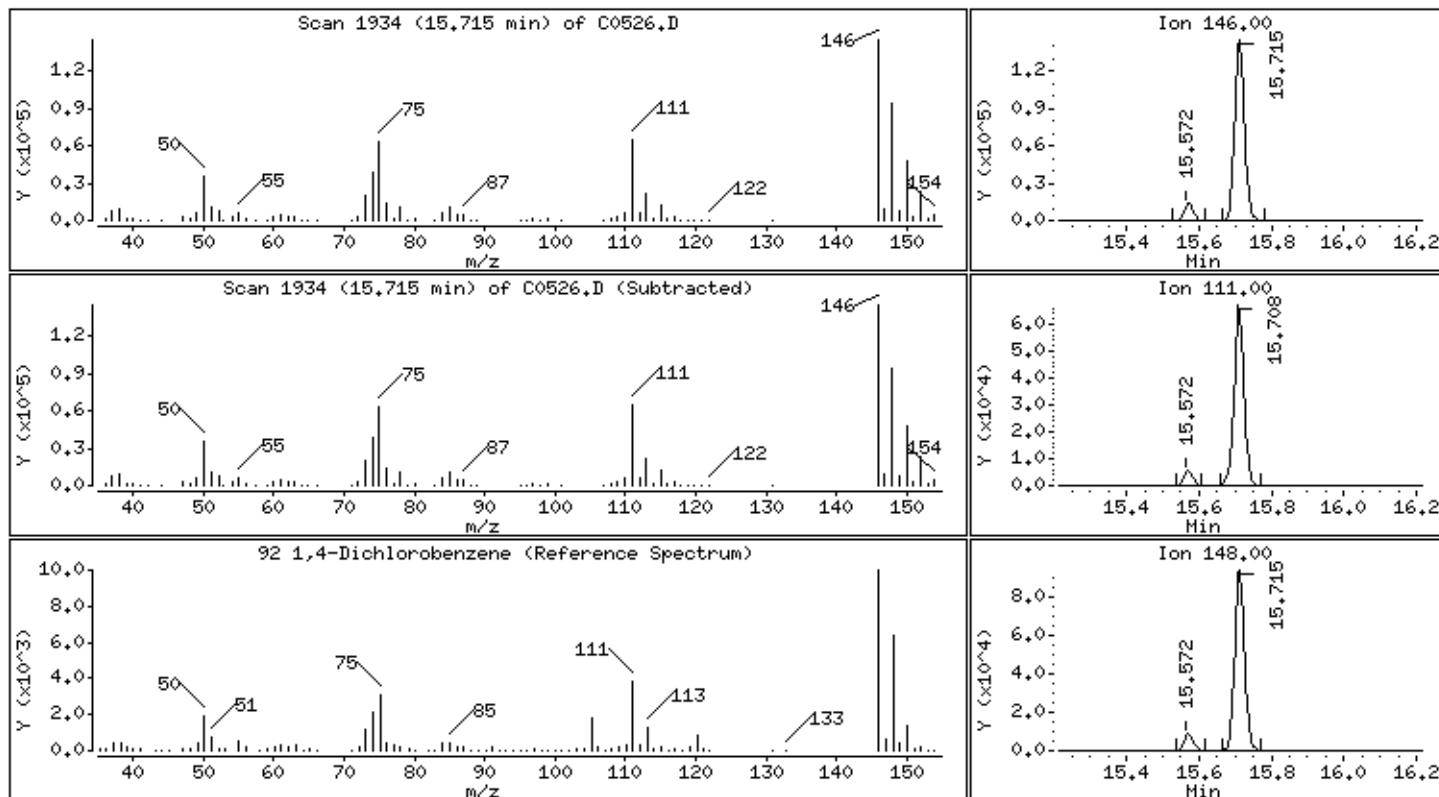
90 1,3-Dichlorobenzene

Concentration: 2,3 ug/l



92 1,4-Dichlorobenzene

Concentration: 23.1 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0526.D

Date : 18-APR-2013 18:27

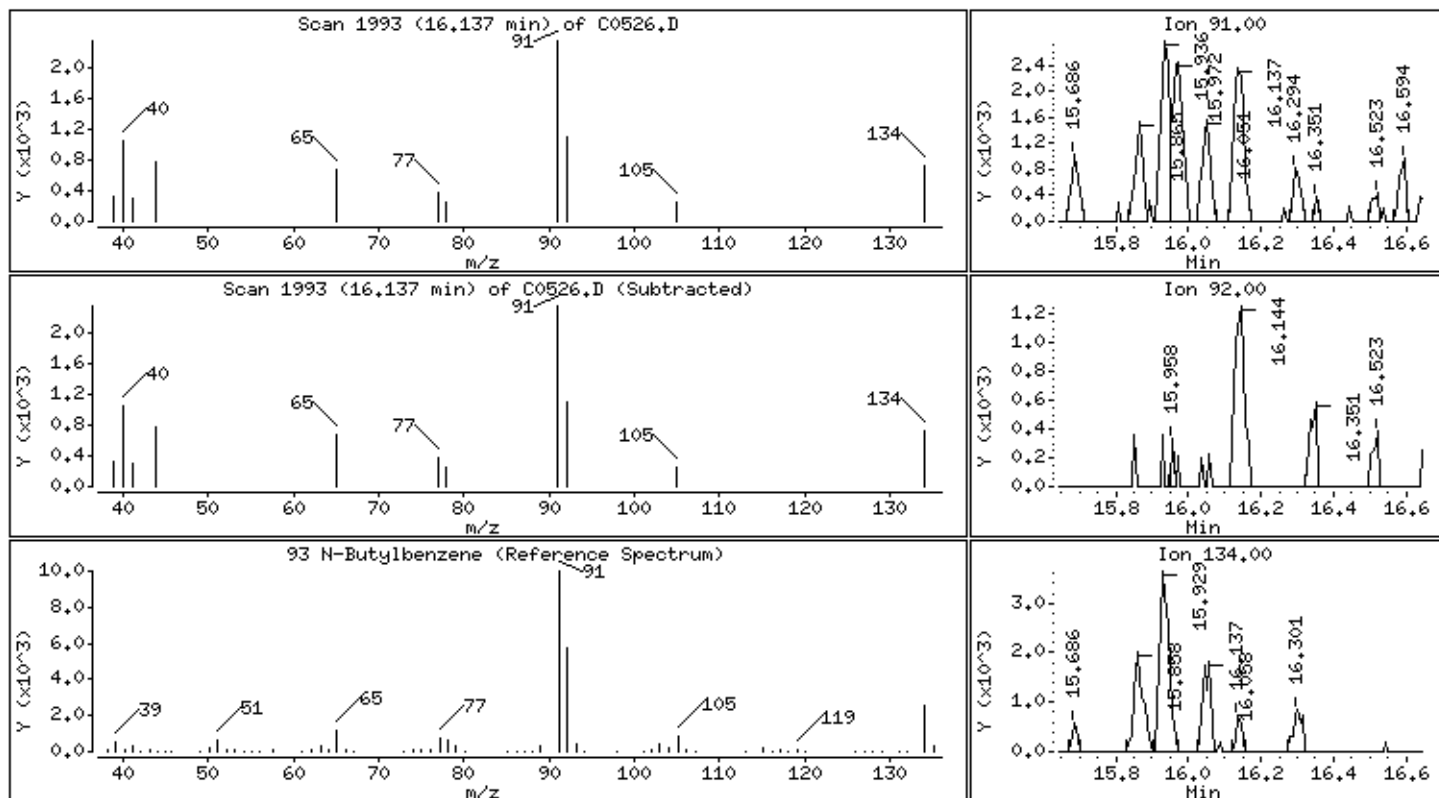
Client ID: AOC9-MW15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10

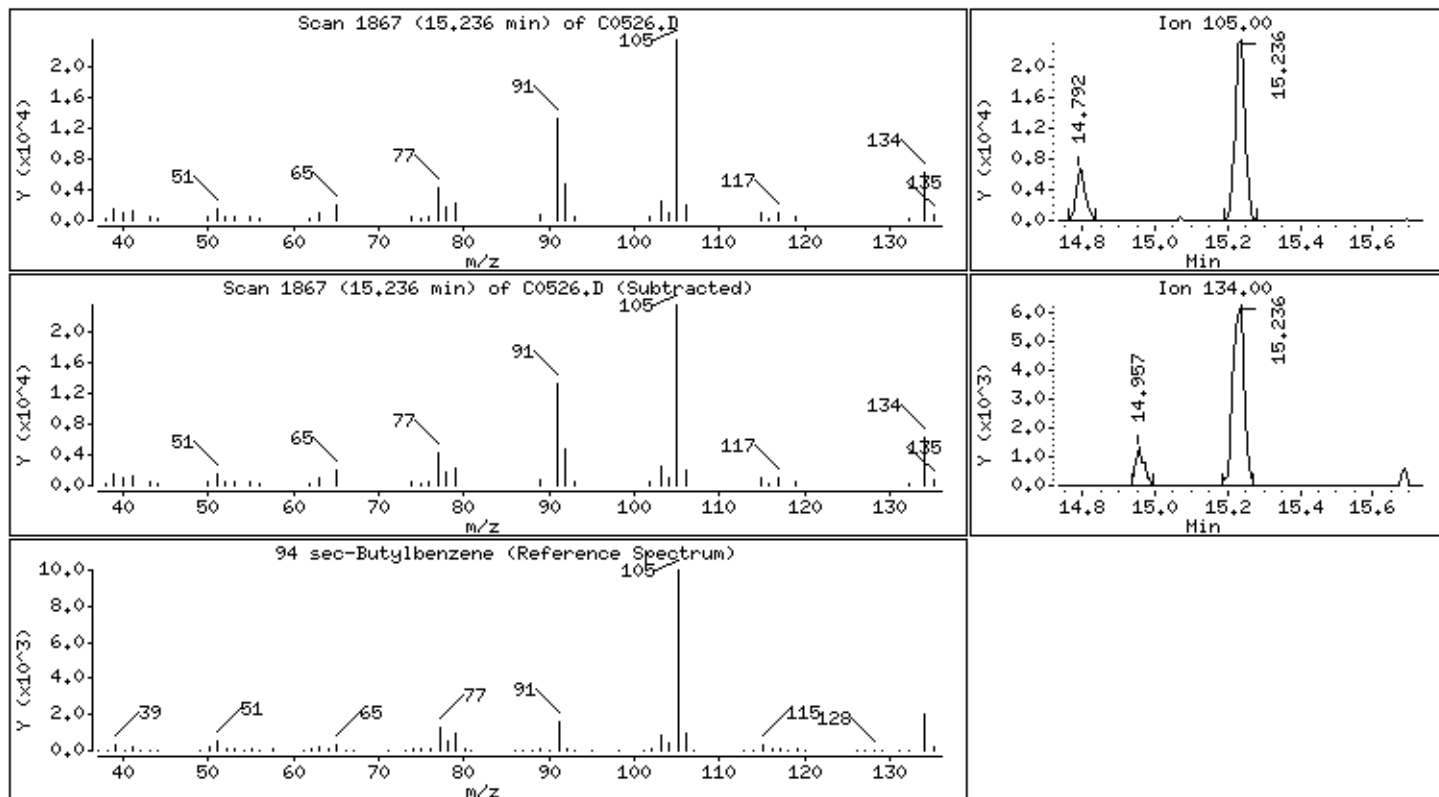
93 N-Butylbenzene

Concentration: 1.1 ug/l



94 sec-Butylbenzene

Concentration: 1.8 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0526.D

Date : 18-APR-2013 18:27

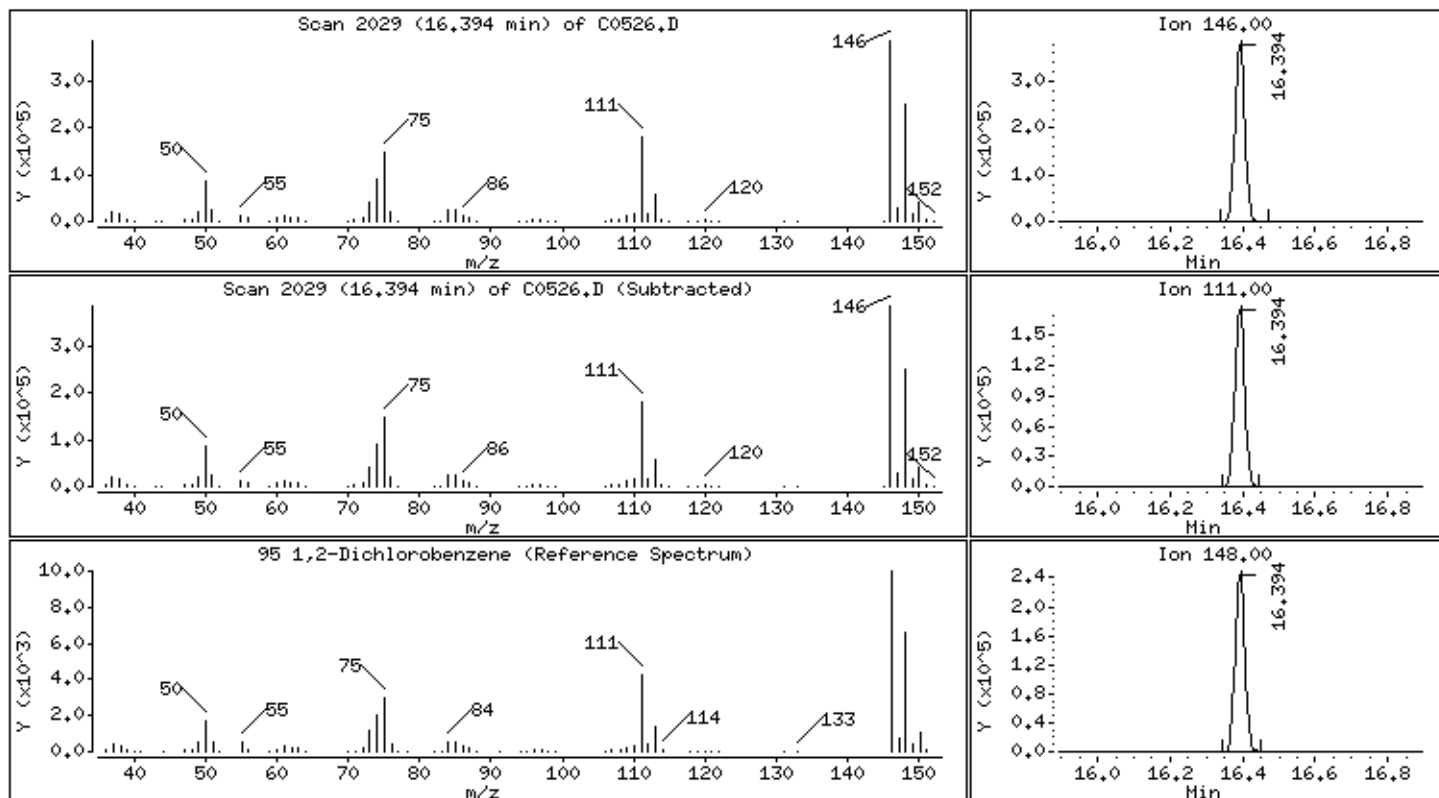
Client ID: AOC9-MM15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10

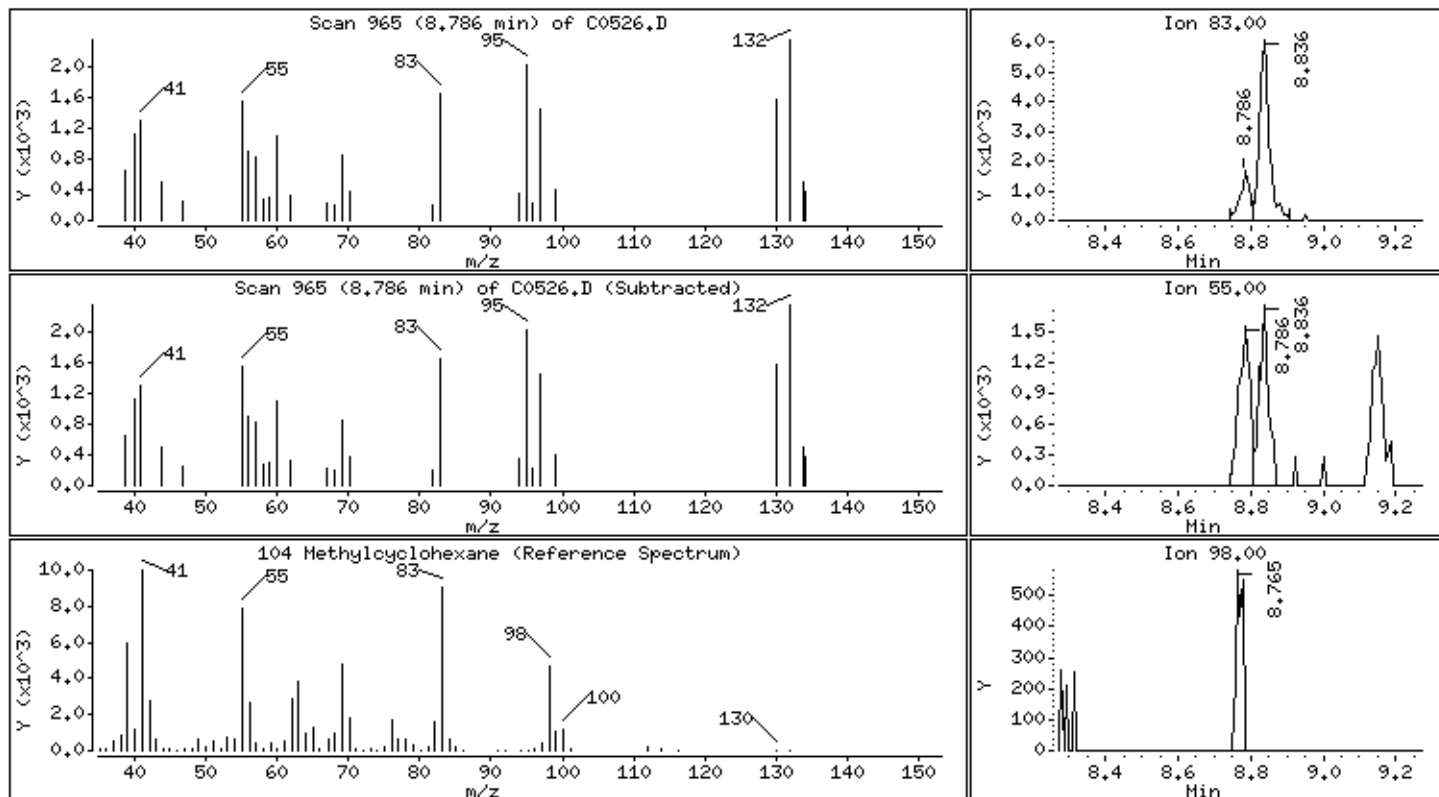
95 1,2-Dichlorobenzene

Concentration: 73.1 ug/l



104 Methylcyclohexane

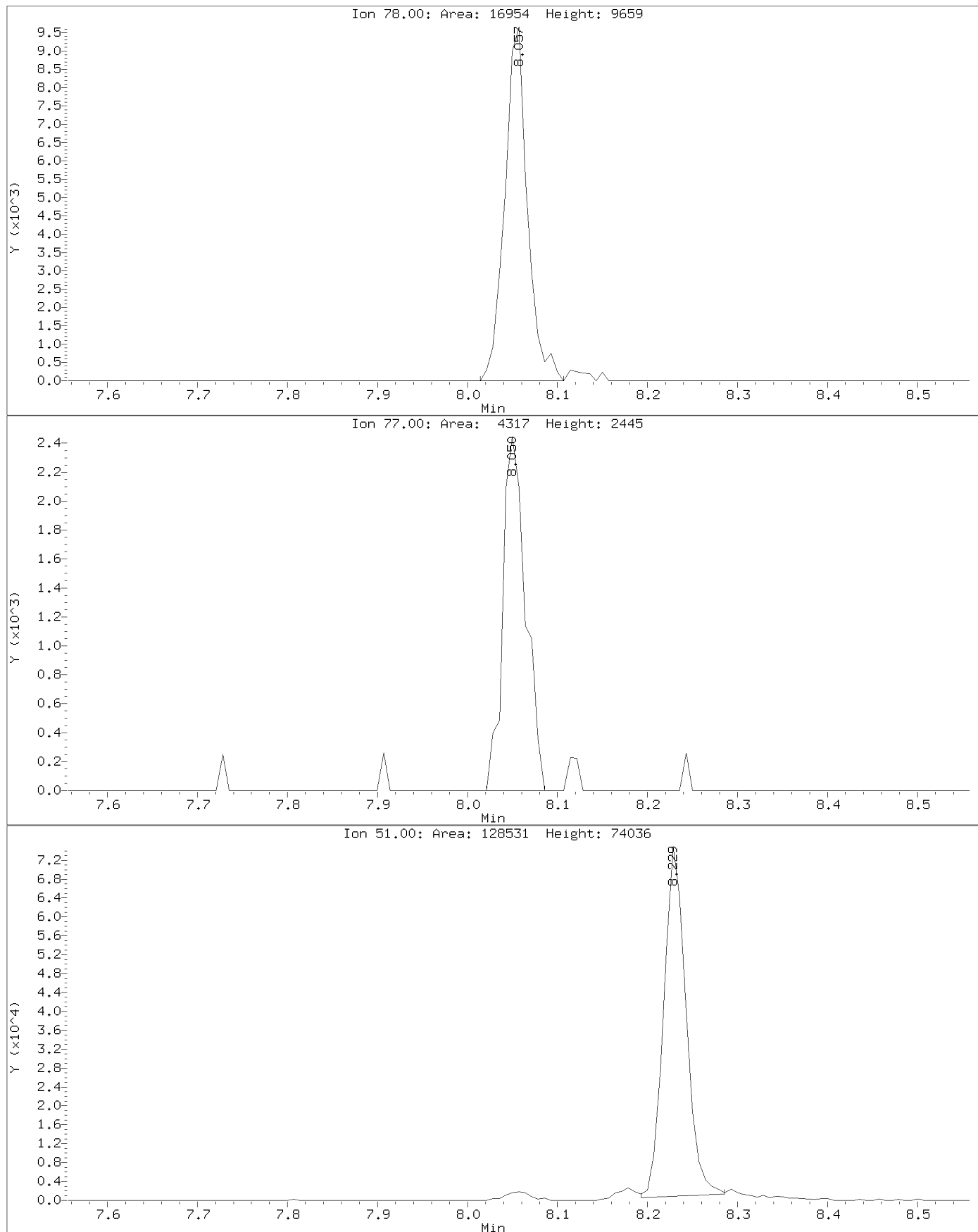
Concentration: 0.36 ug/l



BEFORE MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-c.i\0041813.b\00526.D
Injection Date: 18-APR-2013 18:27
Instrument: gcms-c.i
Client Sample ID: AOC9-MW15LTM040913

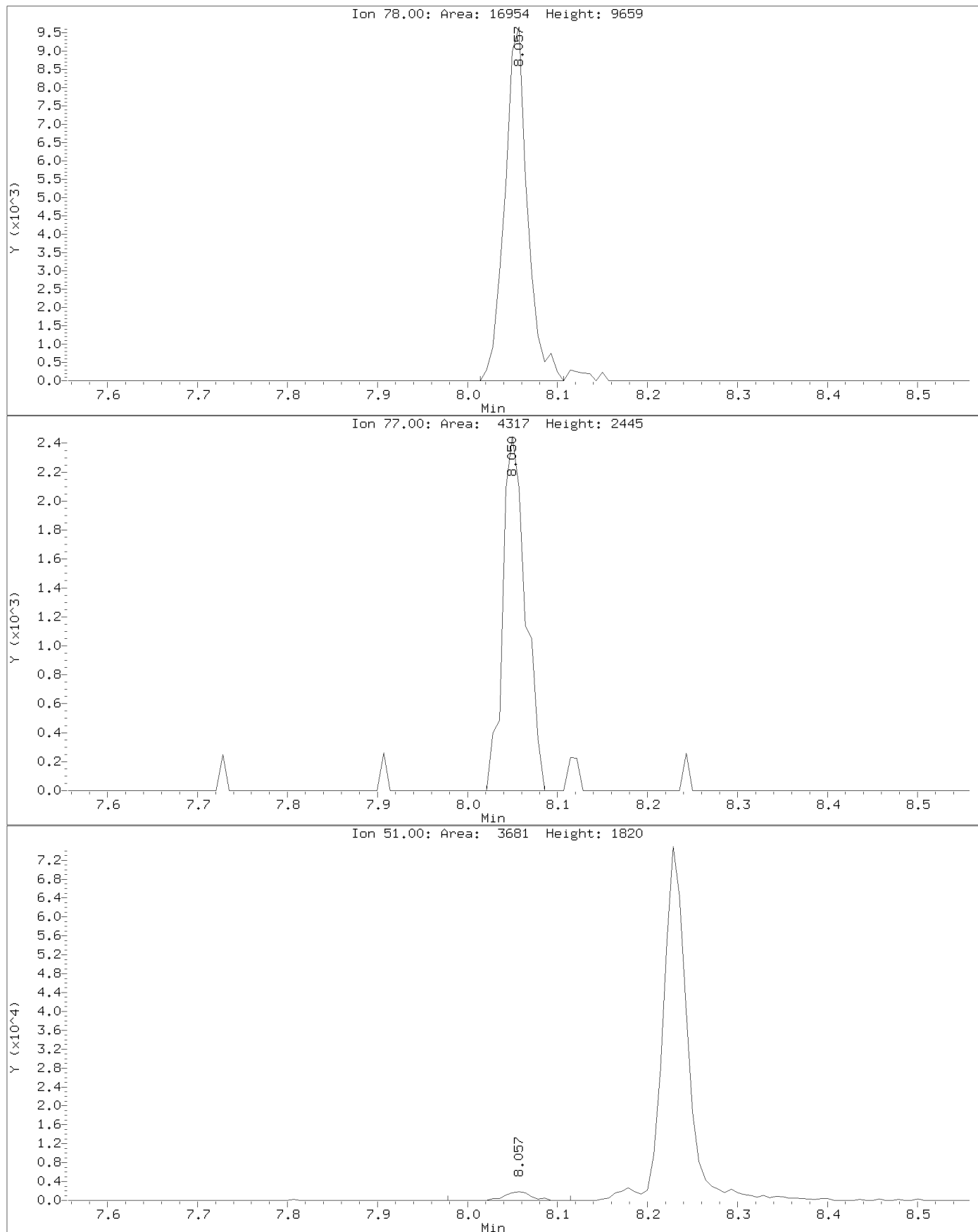
Compound: Benzene
CAS Number: 71-43-2



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-c.i\0041813.b\00526.D
Injection Date: 18-APR-2013 18:27
Instrument: gcms-c.i
Client Sample ID: AOC9-MW15LTM040913

Compound: Benzene
CAS Number: 71-43-2



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10DL
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0523.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	8.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	UL	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	UL	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	J	1.1	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	U	20	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	U	20	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-10DL
Client ID: AOC9-MW15LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0523.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		360	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.4	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	2.1	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		22	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		64	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	U	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	U	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene	U	4.0	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	U	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	1.5	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		98.0	%					
P-Bromofluorobenzene		94.9	%					
Dibromofluoromethane		93.2	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0523.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0523.D
Lab Smp Id: SG2375-10DL Client Smp ID: AOC9-MW15LTM040913
Inj Date : 18-APR-2013 16:51 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-10DL
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE
Target Version: 4.12

Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

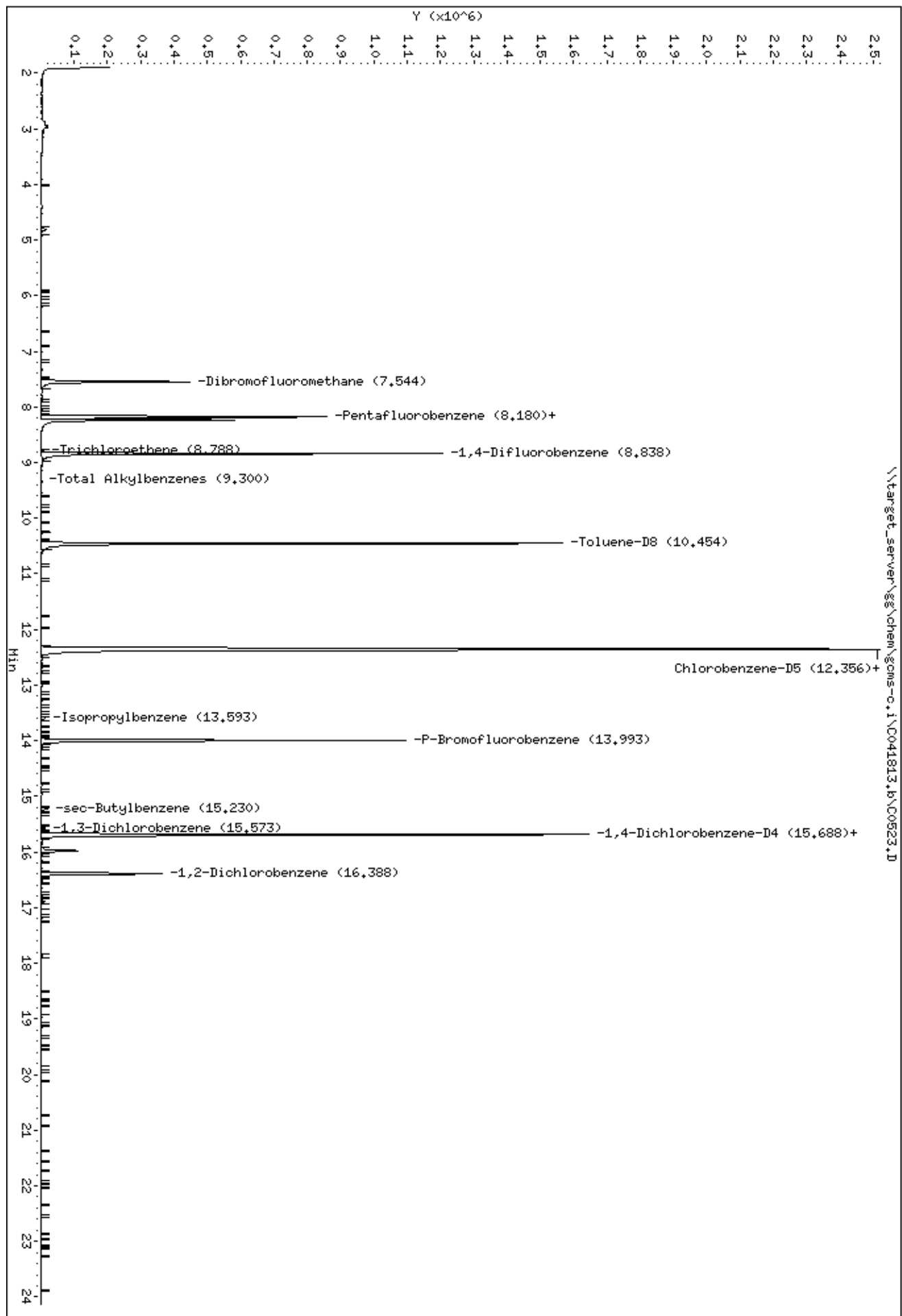
						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 37 Dibromofluoromethane	113	7.543	7.550	(0.922)	281424	46.5955	46.6	
* 42 Pentafluorobenzene	168	8.180	8.179	(1.000)	504005	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.230	8.236	(1.006)	427635	54.2224	54.2	
48 Trichloroethene	95	8.795	8.794	(0.995)	1531	0.28407	1.1(a)	
* 49 1,4-Difluorobenzene	114	8.837	8.844	(1.000)	853083	50.0000		
\$ 55 Toluene-D8	98	10.453	10.453	(1.183)	916057	48.9861	49.0	
* 66 Chlorobenzene-D5	117	12.341	12.340	(1.000)	822718	50.0000		
67 Chlorobenzene	112	12.362	12.362	(1.002)	1156026	91.1006	364	
75 Isopropylbenzene	105	13.599	13.592	(0.867)	7229	0.34976	1.4(a)	
\$ 76 P-Bromofluorobenzene	95	13.993	13.999	(1.583)	398921	47.4734	47.5	
90 1,3-Dichlorobenzene	146	15.573	15.572	(0.993)	5187	0.52027	2.1(a)	
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.694	(1.000)	432729	50.0000		
92 1,4-Dichlorobenzene	146	15.709	15.715	(1.001)	61813	5.47611	21.9	
94 sec-Butylbenzene	105	15.230	15.236	(0.971)	9103	0.37438	1.5(a)	
95 1,2-Dichlorobenzene	146	16.388	16.393	(1.045)	149505	15.9857	63.9	
M 153 Total Alkylbenzenes	100				9103	0.37438	1.5(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\goms-c.i\CO41813.b\CO523.D
Date : 18-APR-2013 16:51
Client ID: AOC9-HM1SLTH040913
Sample Info: SG2375-10DL

Instrument: goms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0523.D

Date : 18-APR-2013 16:51

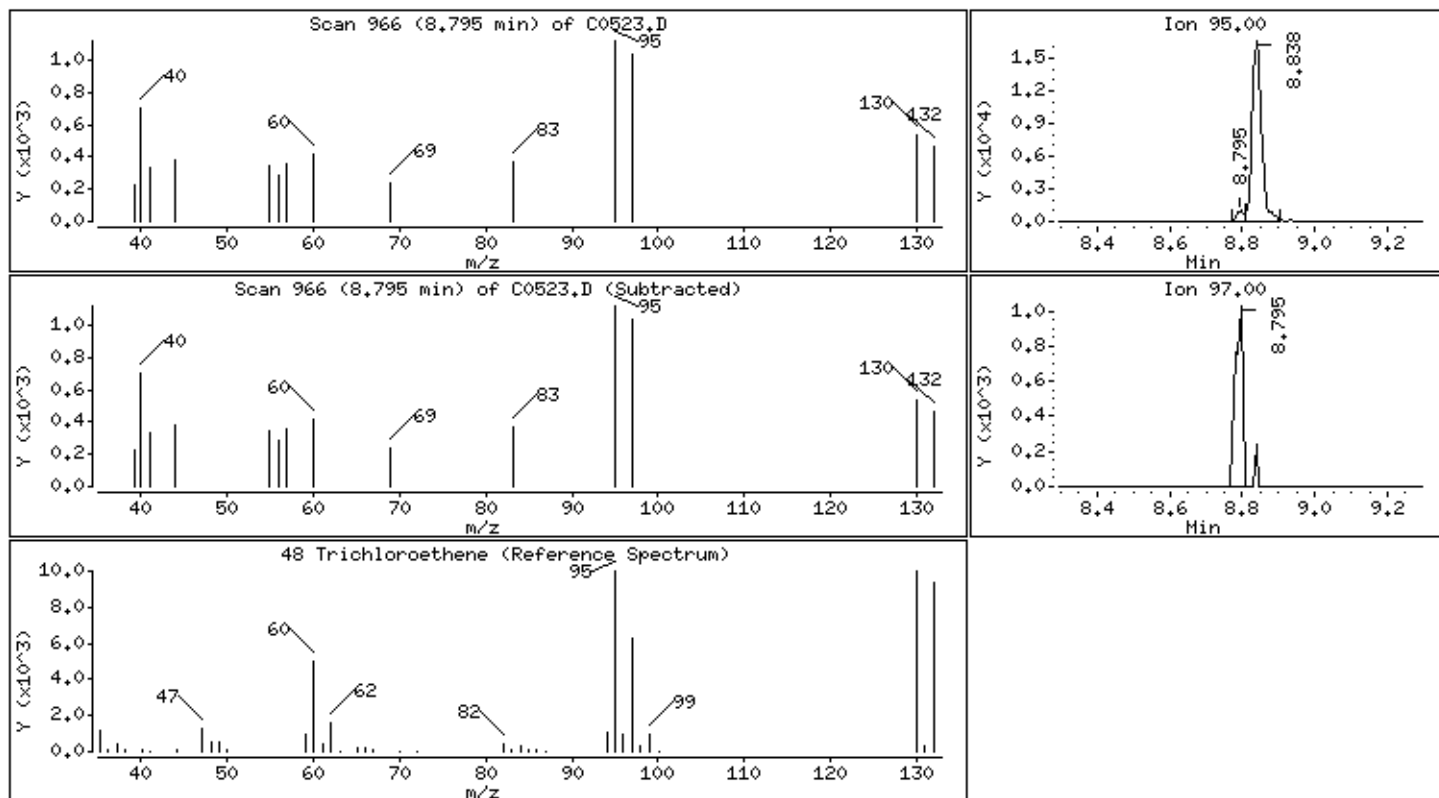
Client ID: AOC9-MW15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10DL

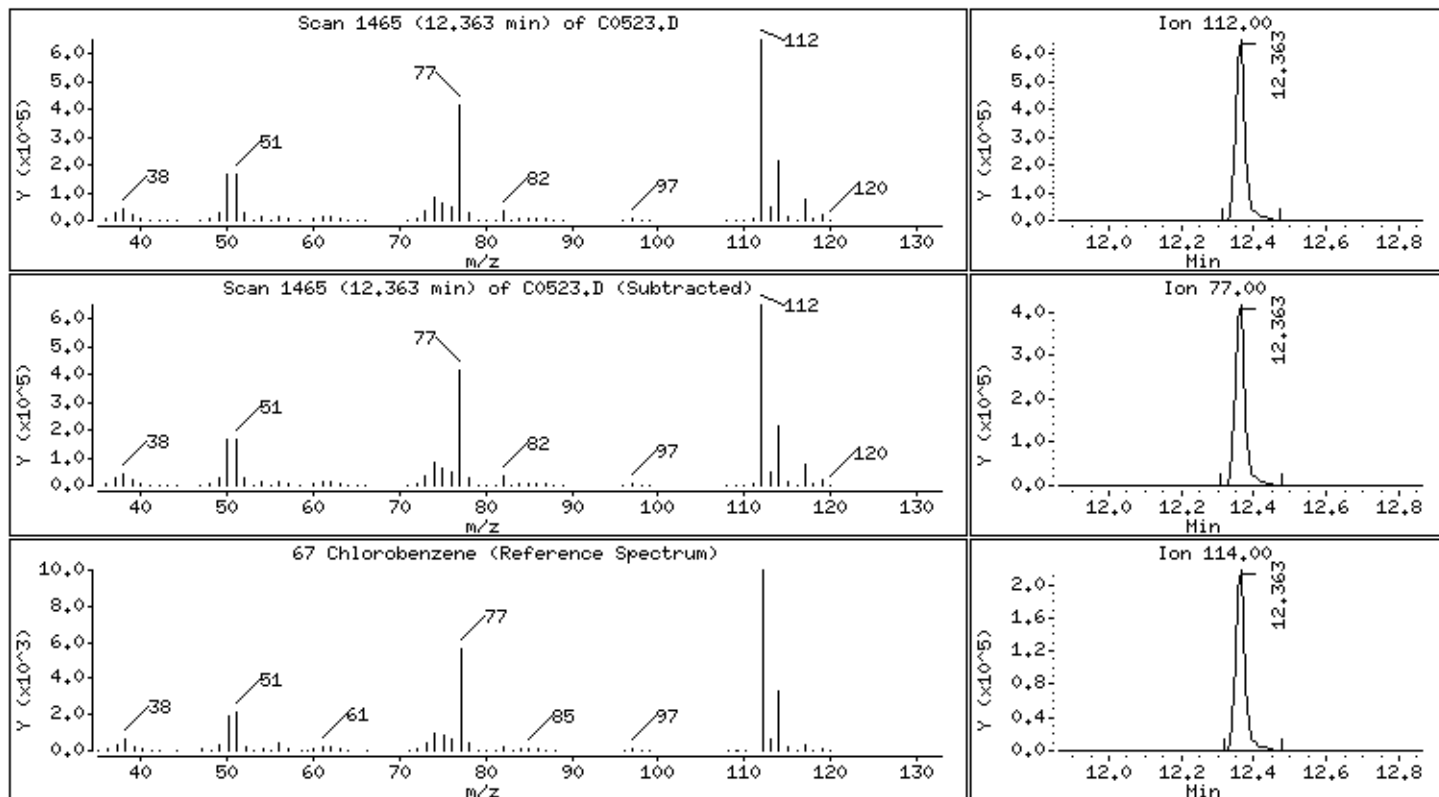
48 Trichloroethene

Concentration: 1.1 ug/l



67 Chlorobenzene

Concentration: 364 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0523.D

Date : 18-APR-2013 16:51

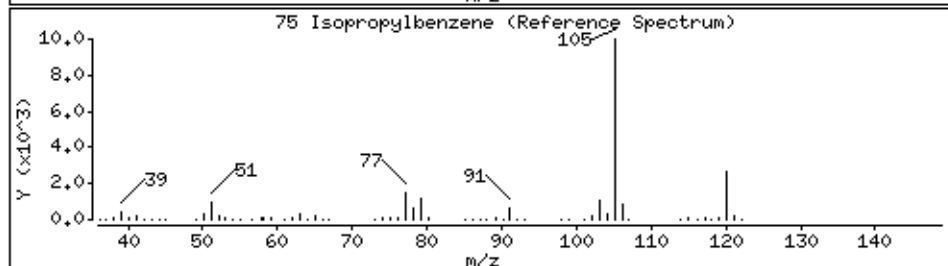
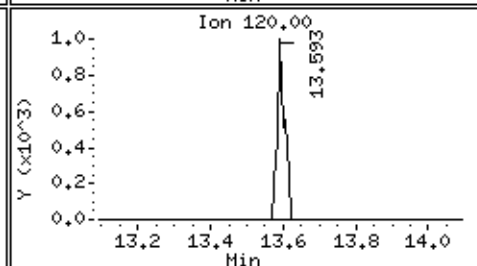
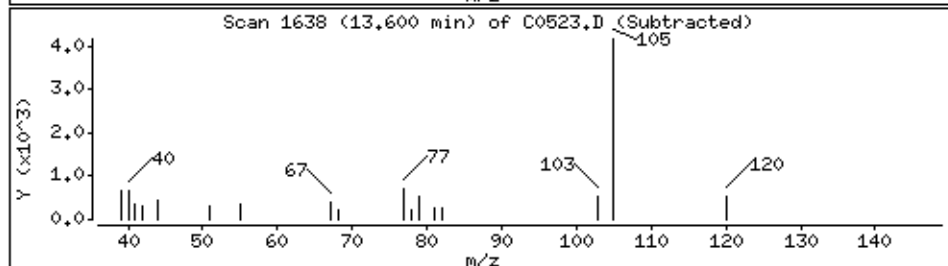
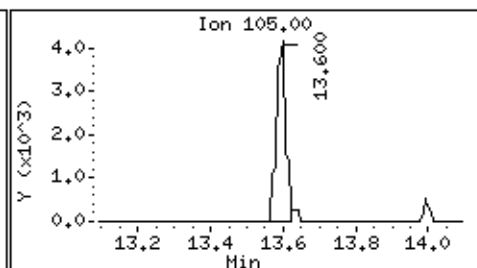
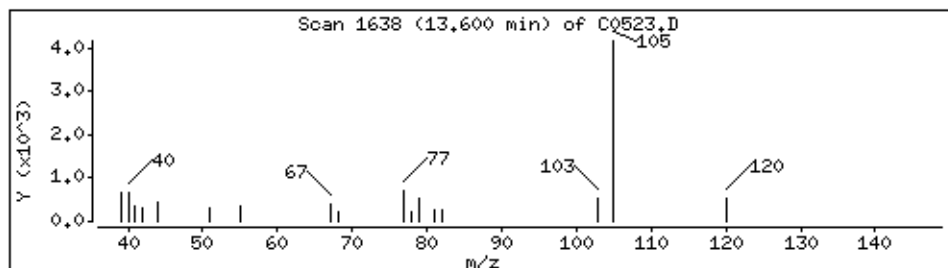
Client ID: AOC9-MW15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10DL

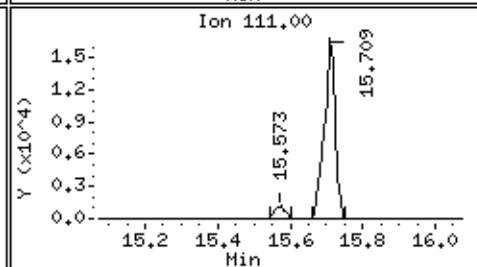
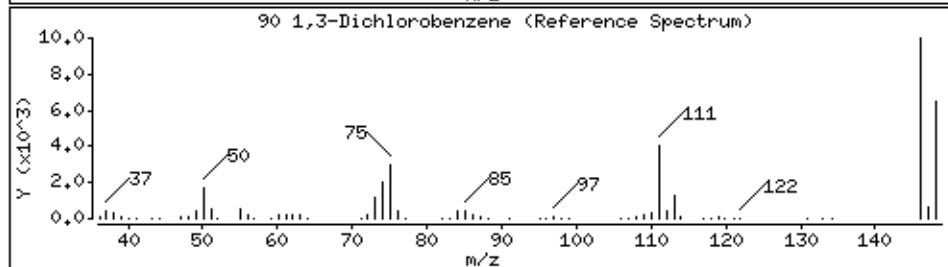
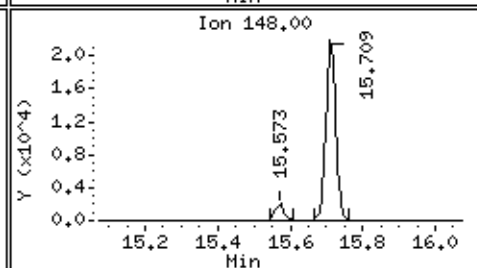
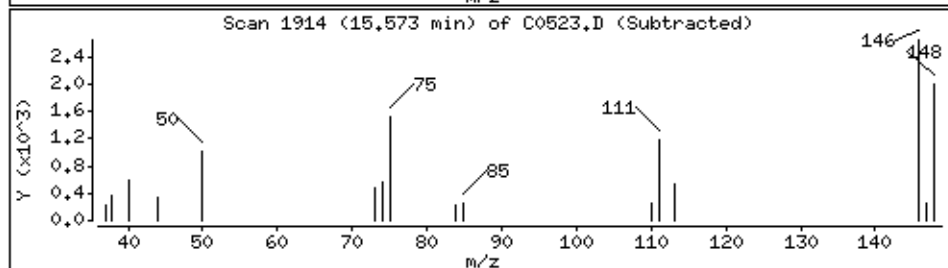
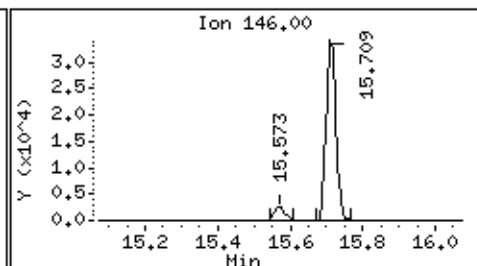
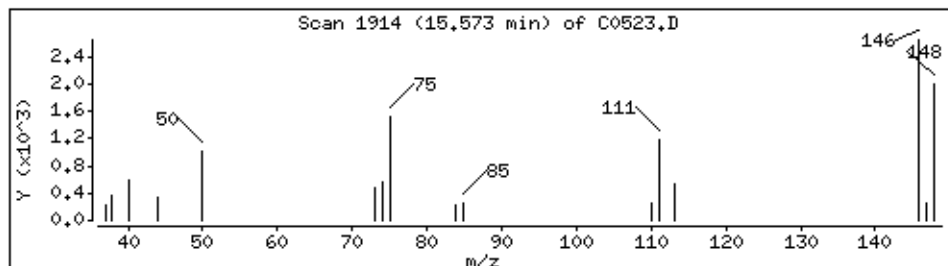
75 Isopropylbenzene

Concentration: 1.4 ug/l



90 1,3-Dichlorobenzene

Concentration: 2.1 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0523.D

Date : 18-APR-2013 16:51

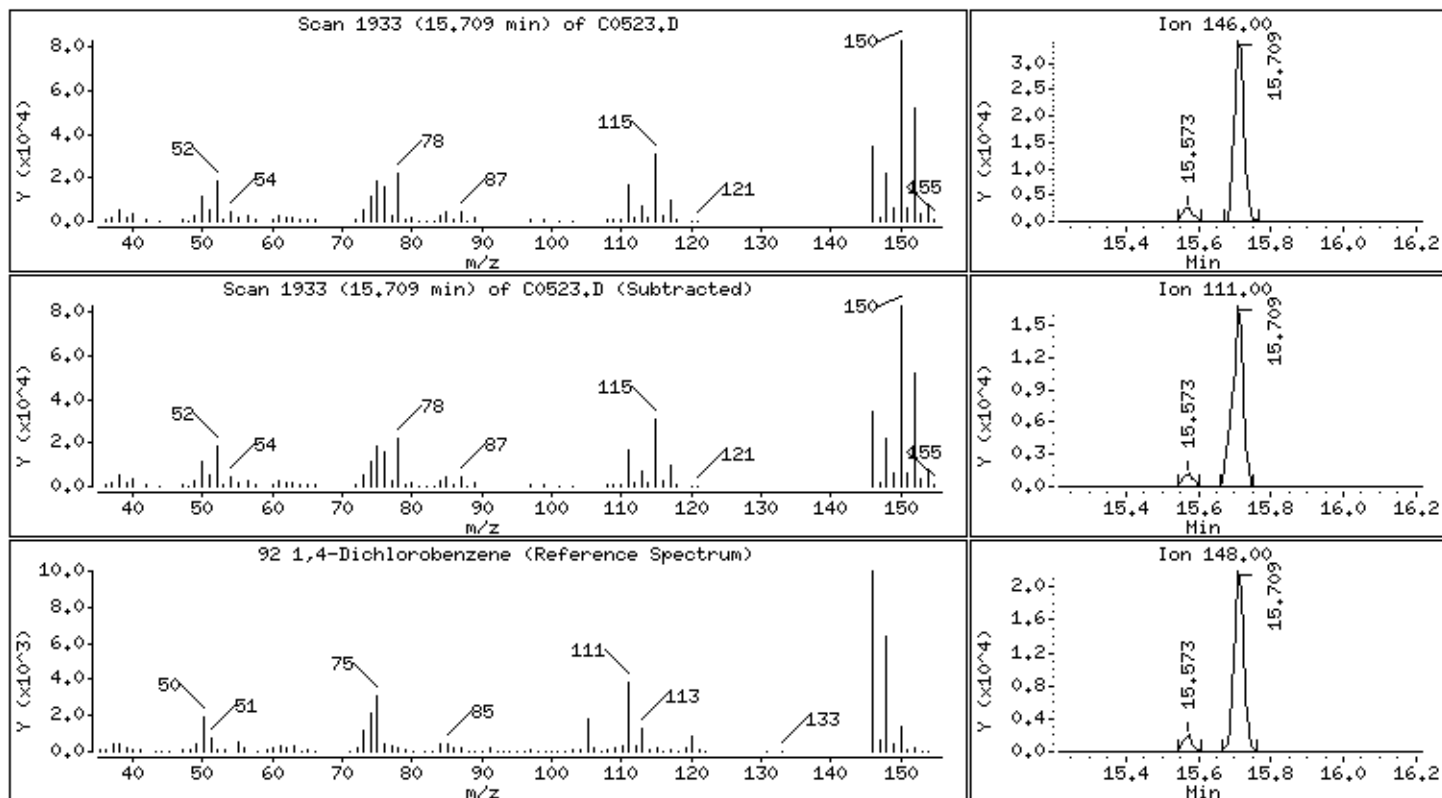
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Instrument: gcms-c.i

Sample Info: SG2375-10DL

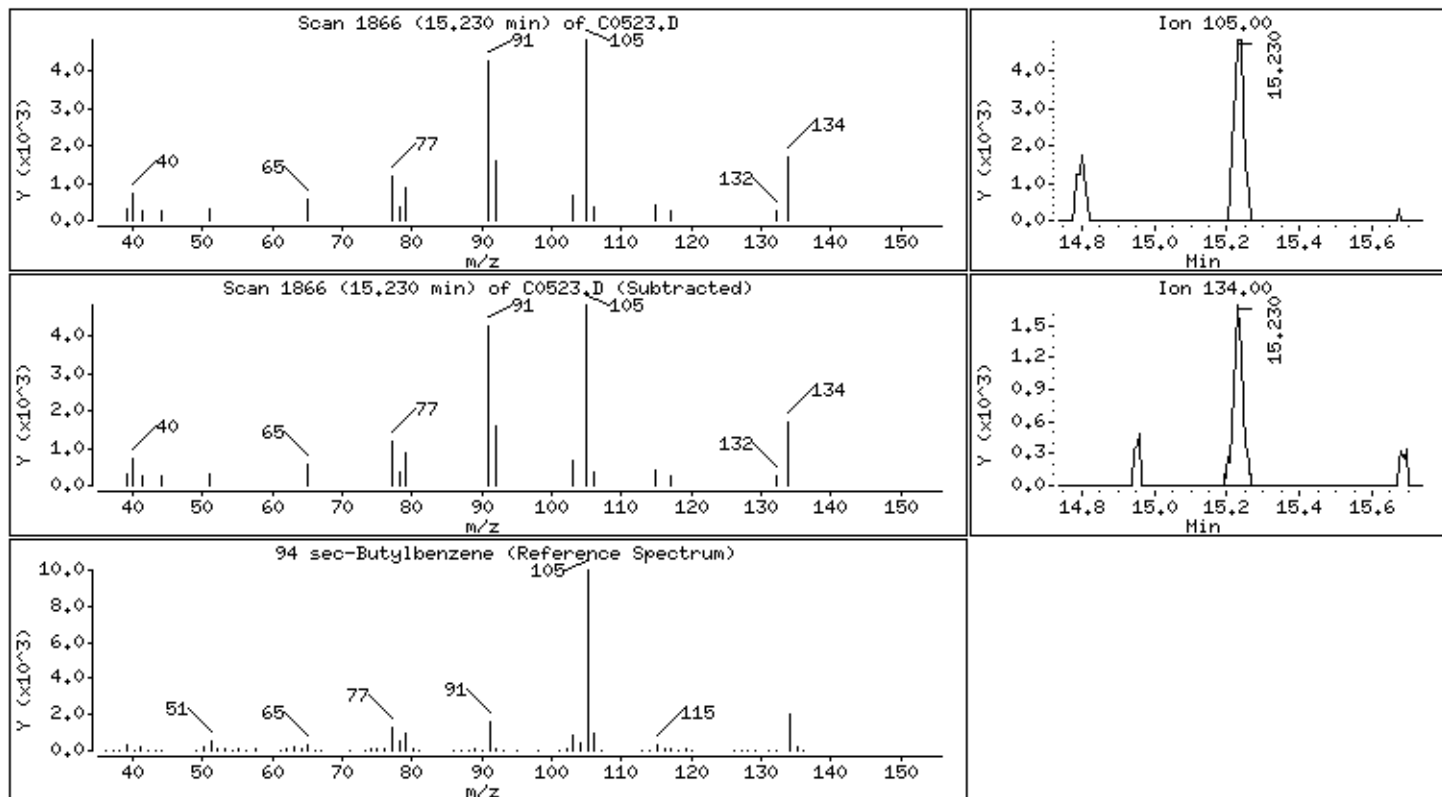
92 1,4-Dichlorobenzene

Concentration: 21.9 ug/l



94 sec-Butylbenzene

Concentration: 1.5 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0523.D

Date : 18-APR-2013 16:51

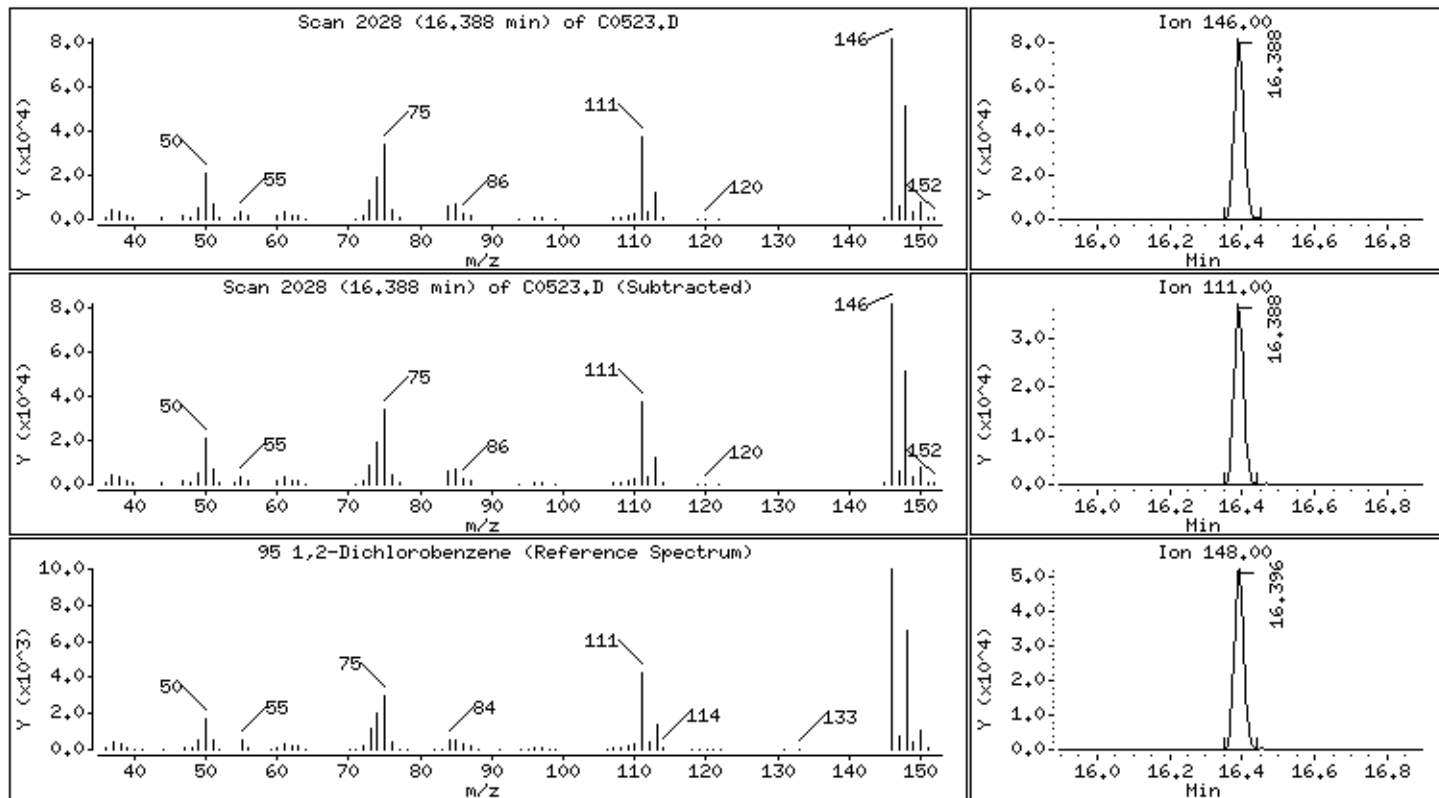
Client ID: AOC9-MW15LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-10DL

95 1,2-Dichlorobenzene

Concentration: 63.9 ug/l



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0524.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	JL	0.63	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.94	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.78	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0524.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	360	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		2.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		2.4	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		24	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		73	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.2	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		2.1	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.58	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		112.	%					
Toluene-d8		99.2	%					
P-Bromofluorobenzene		98.4	%					
Dibromofluoromethane		93.9	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0524.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0524.D
Lab Smp Id: SG2375-11 Client Smp ID: OC9-MW15/DLTM040913
Inj Date : 18-APR-2013 17:22 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-11
Misc Info : WG122853, WG122628-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

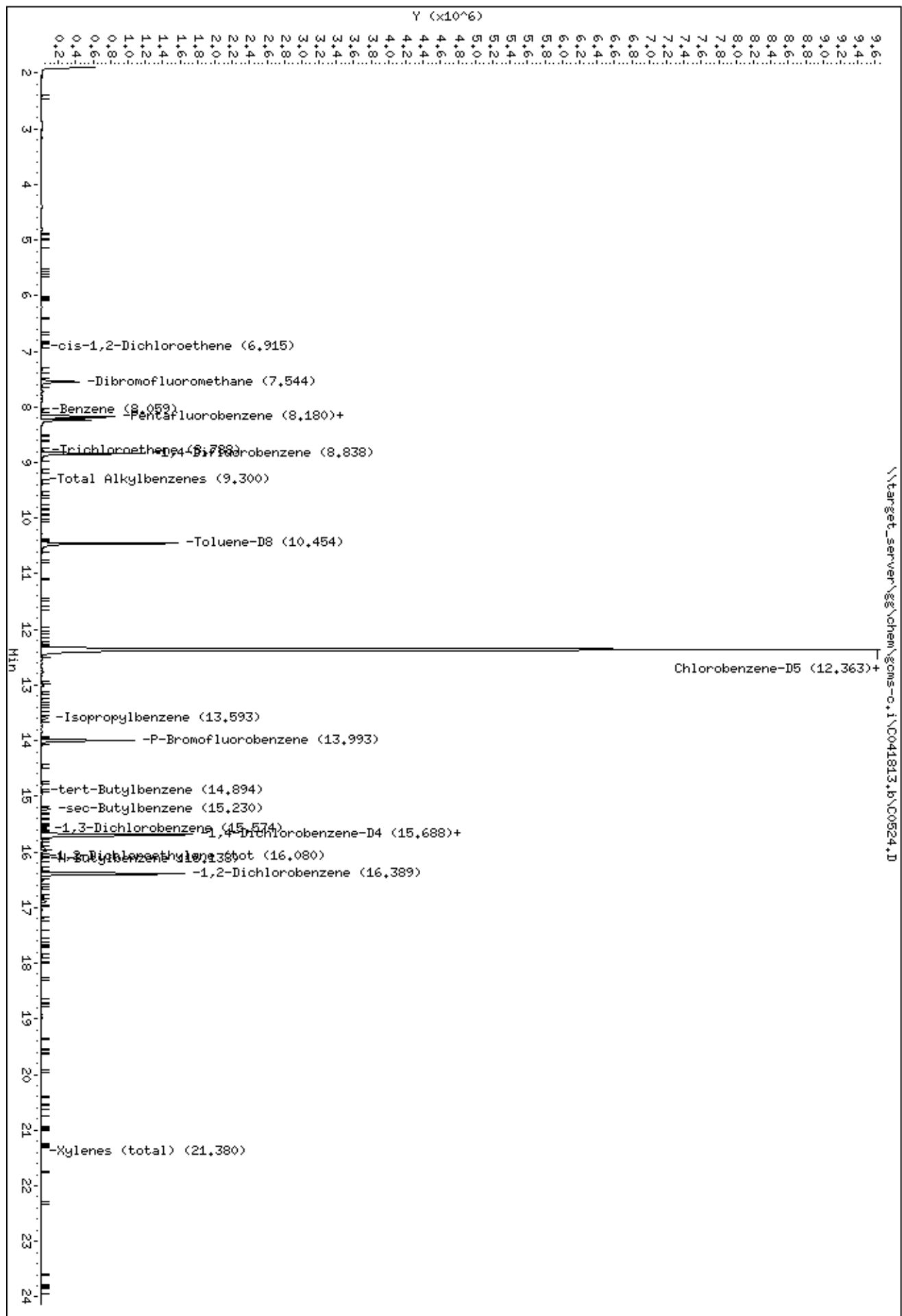
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.914	6.913	(0.845)	3727	0.63288	0.63(a)	
M 30 1,2-Dichloroethylene (total)	96				3727	0.63288	0.63(a)	
\$ 37 Dibromofluoromethane	113	7.543	7.550	(0.922)	276113	46.9594	47.0	
41 Benzene	78	8.058	8.057	(0.912)	18930	0.93717	0.94(aM)	M10
* 42 Pentafluorobenzene	168	8.180	8.179	(1.000)	490661	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.230	8.236	(1.006)	428438	55.8016	55.8	
48 Trichloroethene	95	8.788	8.794	(0.994)	4210	0.77759	0.78(a)	
* 49 1,4-Difluorobenzene	114	8.838	8.844	(1.000)	856976	50.0000		
\$ 55 Toluene-D8	98	10.454	10.453	(1.183)	932146	49.6200	49.6	
* 66 Chlorobenzene-D5	117	12.341	12.340	(1.000)	858040	50.0000		
67 Chlorobenzene	112	12.363	12.362	(1.002)	4774361	360.755	361(A)	
75 Isopropylbenzene	105	13.592	13.592	(0.866)	42592	2.03806	2.0	
\$ 76 P-Bromofluorobenzene	95	13.993	13.999	(1.583)	415332	49.2019	49.2	
86 tert-Butylbenzene	119	14.958	14.957	(0.954)	10466	0.58202	0.58(a)	
90 1,3-Dichlorobenzene	146	15.566	15.572	(0.992)	23969	2.37774	2.4	
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.694	(1.000)	437540	50.0000		
92 1,4-Dichlorobenzene	146	15.709	15.715	(1.001)	269701	23.6305	23.6	
93 N-Butylbenzene	91	16.145	16.143	(1.029)	5009	1.15430	1.2	
94 sec-Butylbenzene	105	15.230	15.236	(0.971)	51987	2.11456	2.1	
95 1,2-Dichlorobenzene	146	16.395	16.393	(1.045)	691606	73.1362	73.1	
M 153 Total Alkylbenzenes	100				67462	3.85088	3.8(a)	

11:32 am, Apr 23, 2013

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 Date: 18-APR-2013 17:22
 Client ID: OC9-MW15/DLTH040913
 Sample Info: SG2375-11

Instrument: gms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0524.D

Date : 18-APR-2013 17:22

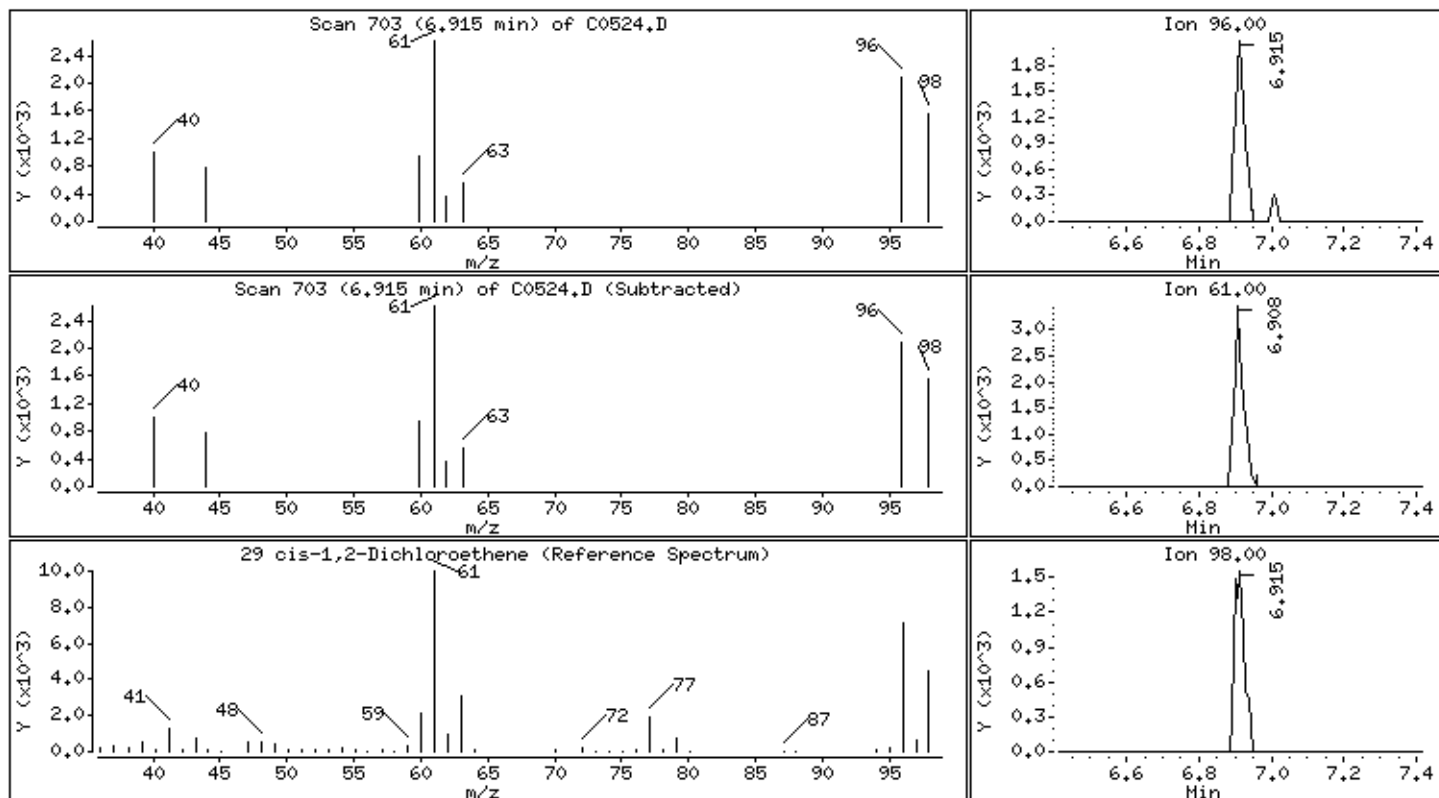
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Instrument: gcms-c.i

Sample Info: SG2375-11

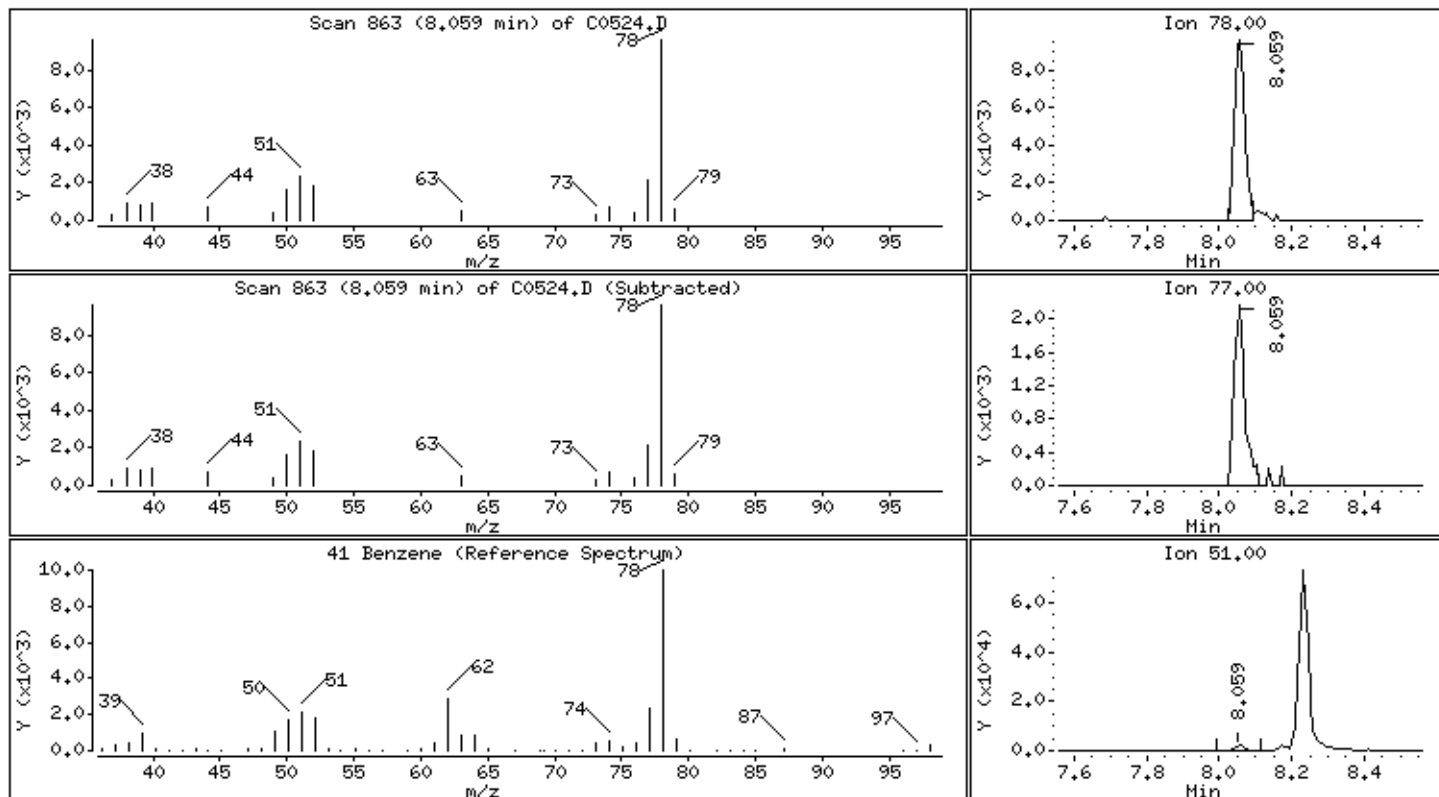
29 cis-1,2-Dichloroethene

Concentration: 0.63 ug/l



41 Benzene

Concentration: 0.94 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041813,b\C0524.D

Date : 18-APR-2013 17:22

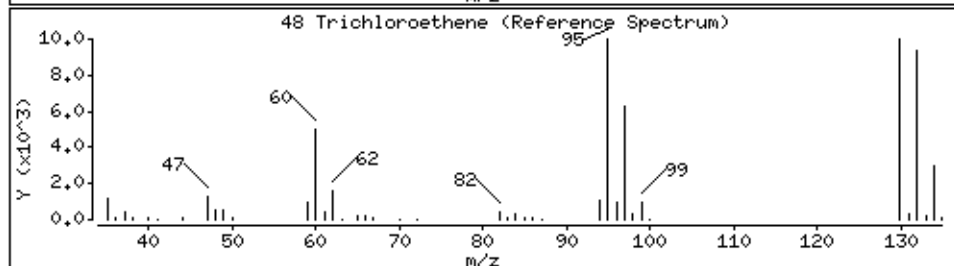
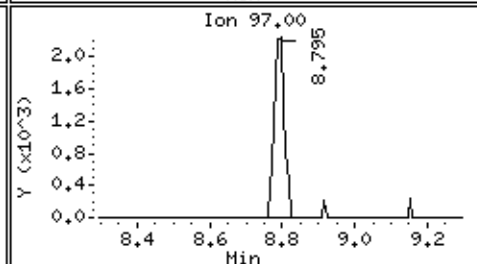
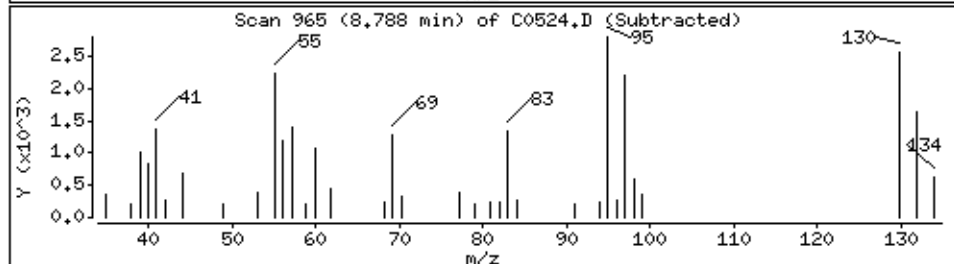
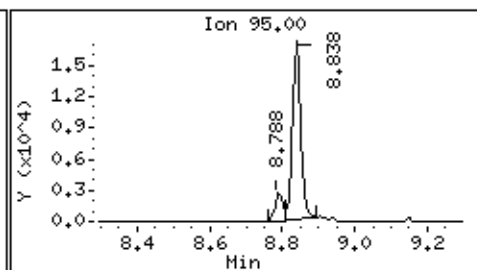
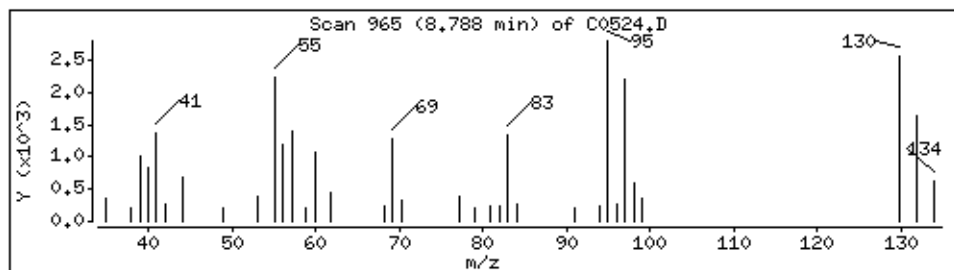
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Instrument: gms-c.i

Sample Info: SG2375-11

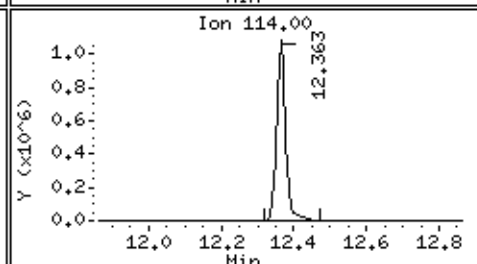
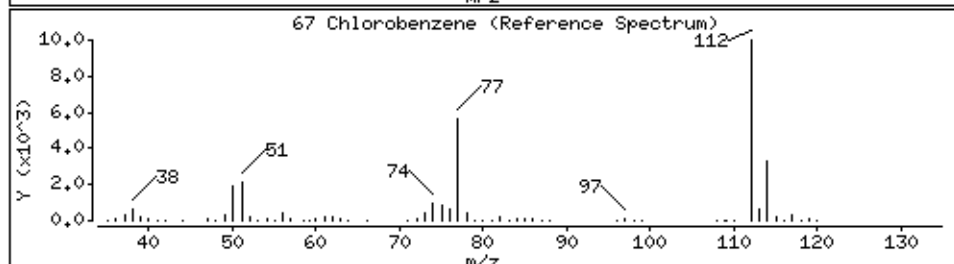
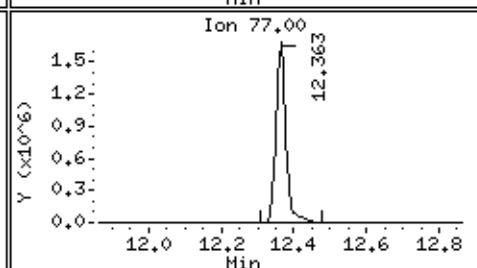
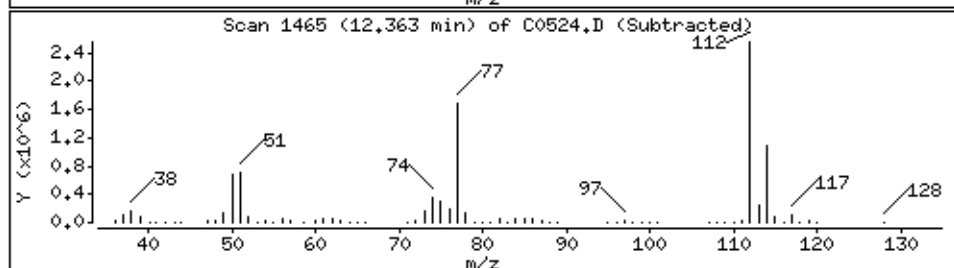
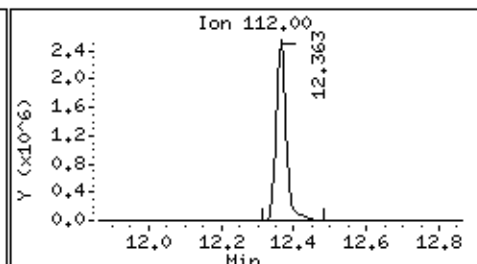
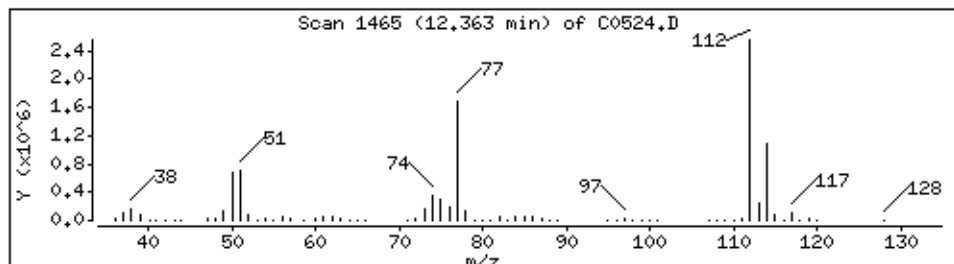
48 Trichloroethene

Concentration: 0.78 ug/l



67 Chlorobenzene

Concentration: 361 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041813,b\C0524.D

Date : 18-APR-2013 17:22

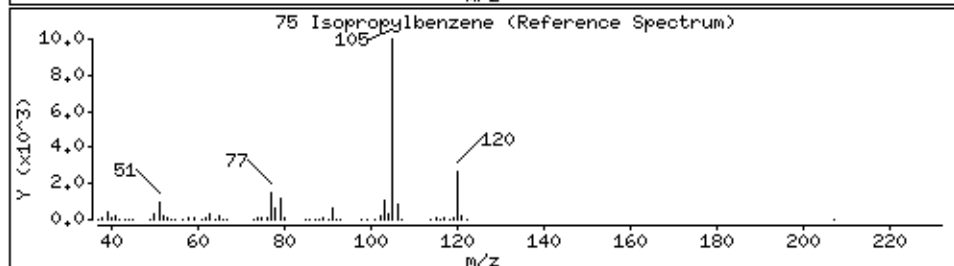
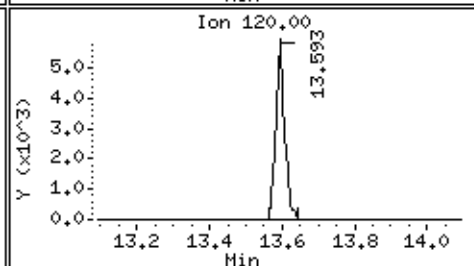
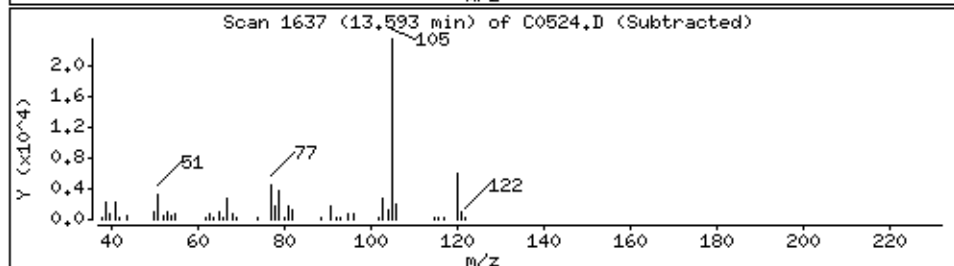
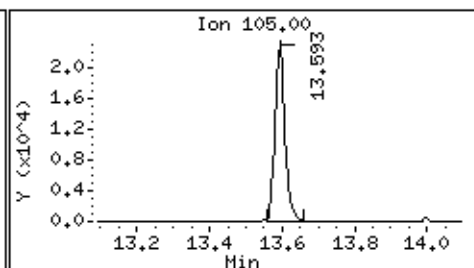
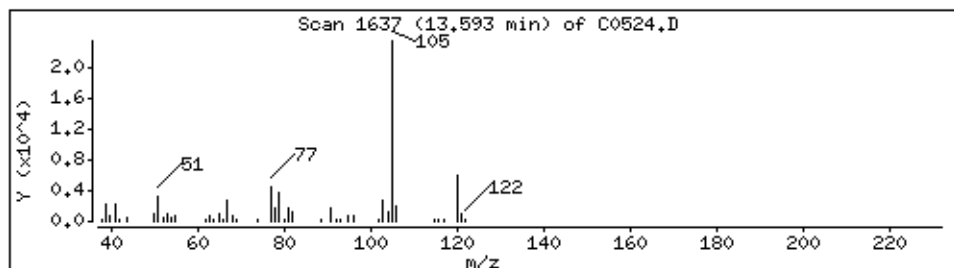
Client ID: OC9-MM15/DLTM040913

Instrument: gms-c.i

Sample Info: SG2375-11

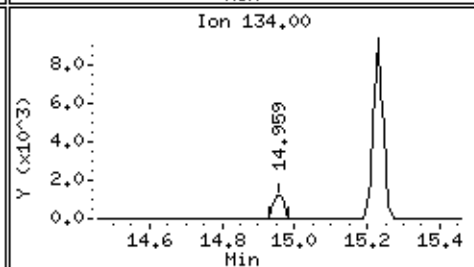
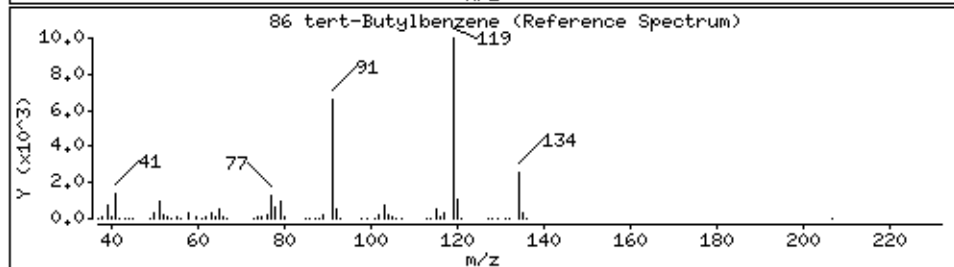
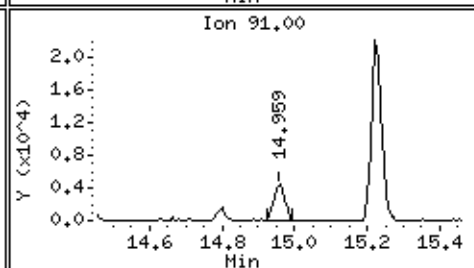
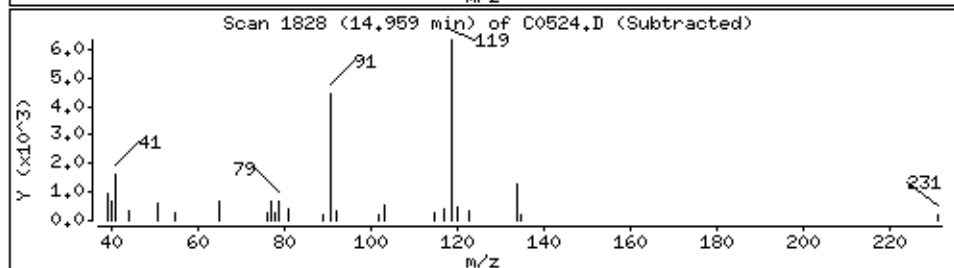
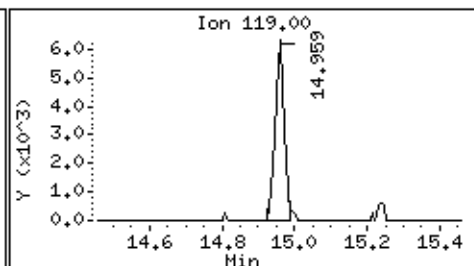
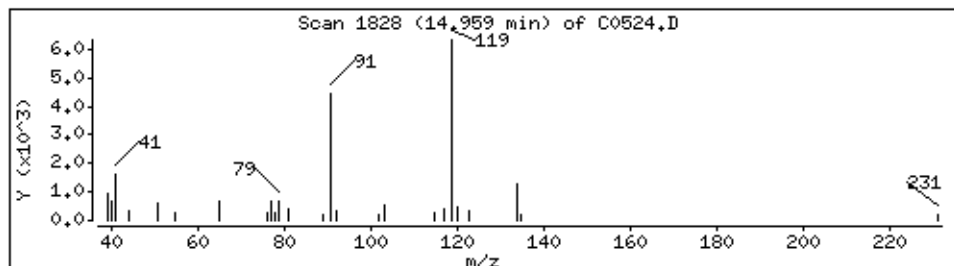
75 Isopropylbenzene

Concentration: 2.0 ug/l



86 tert-Butylbenzene

Concentration: 0.58 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0524.D

Date : 18-APR-2013 17:22

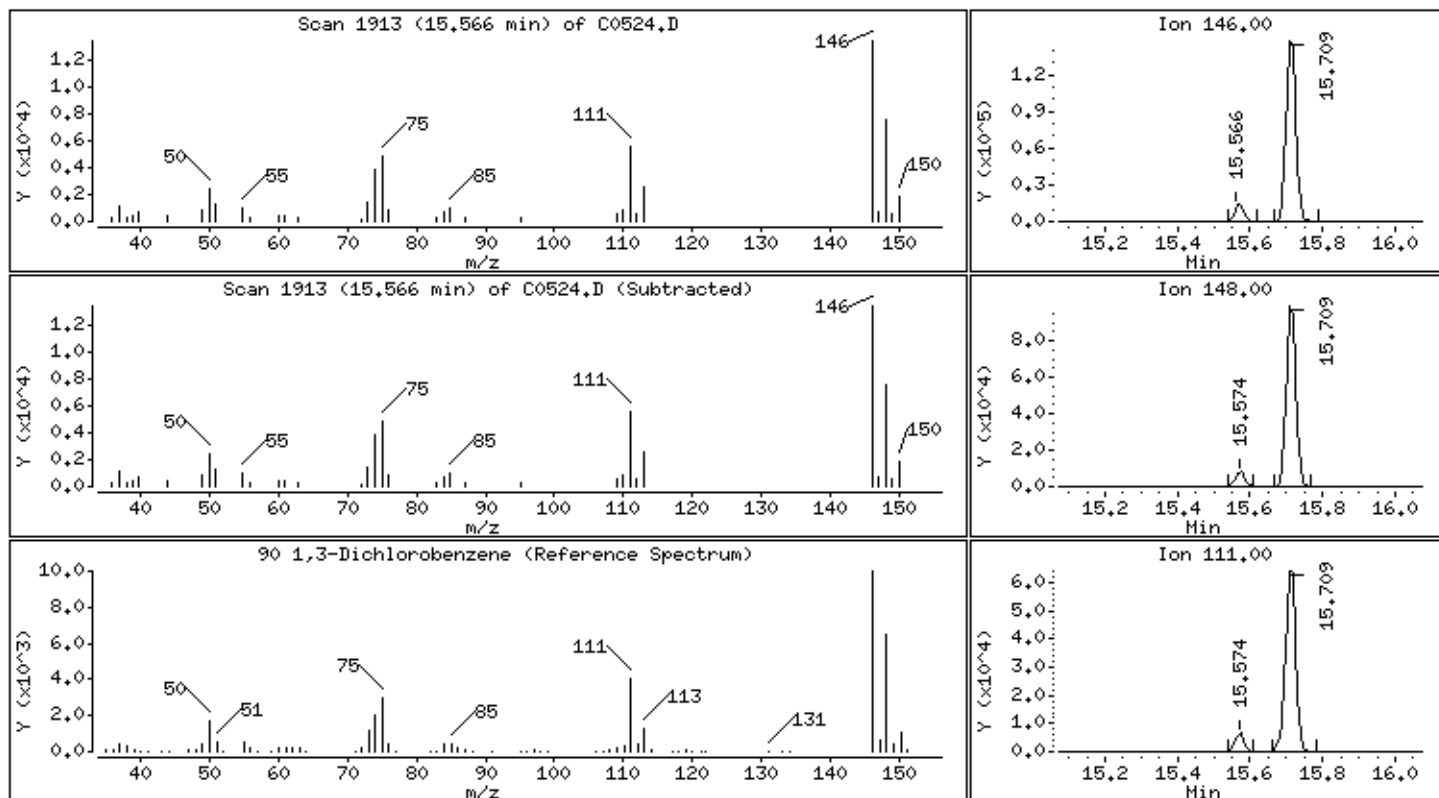
Client ID: OC9-MM15/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-11

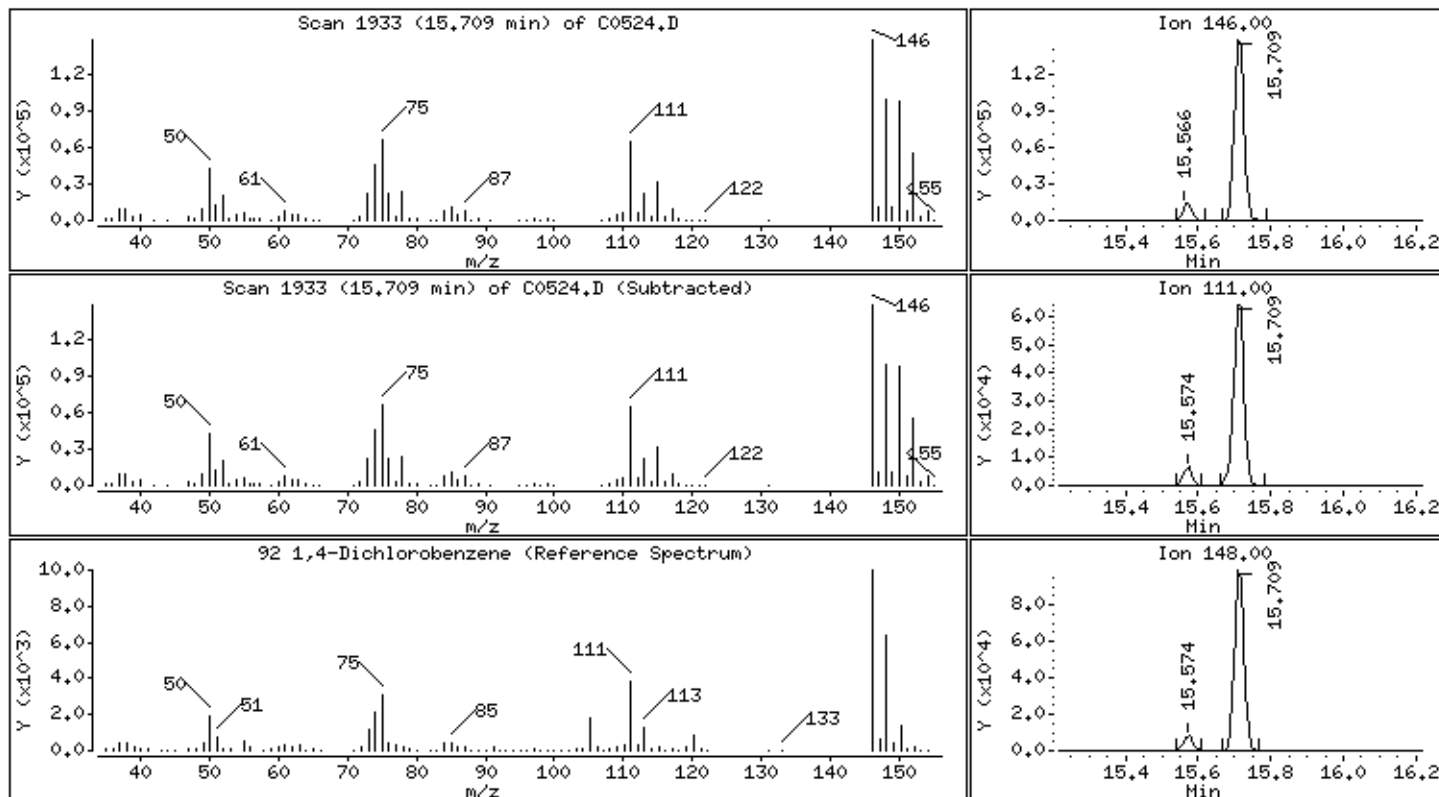
90 1,3-Dichlorobenzene

Concentration: 2.4 ug/l



92 1,4-Dichlorobenzene

Concentration: 23.6 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041813,b\C0524.D

Date : 18-APR-2013 17:22

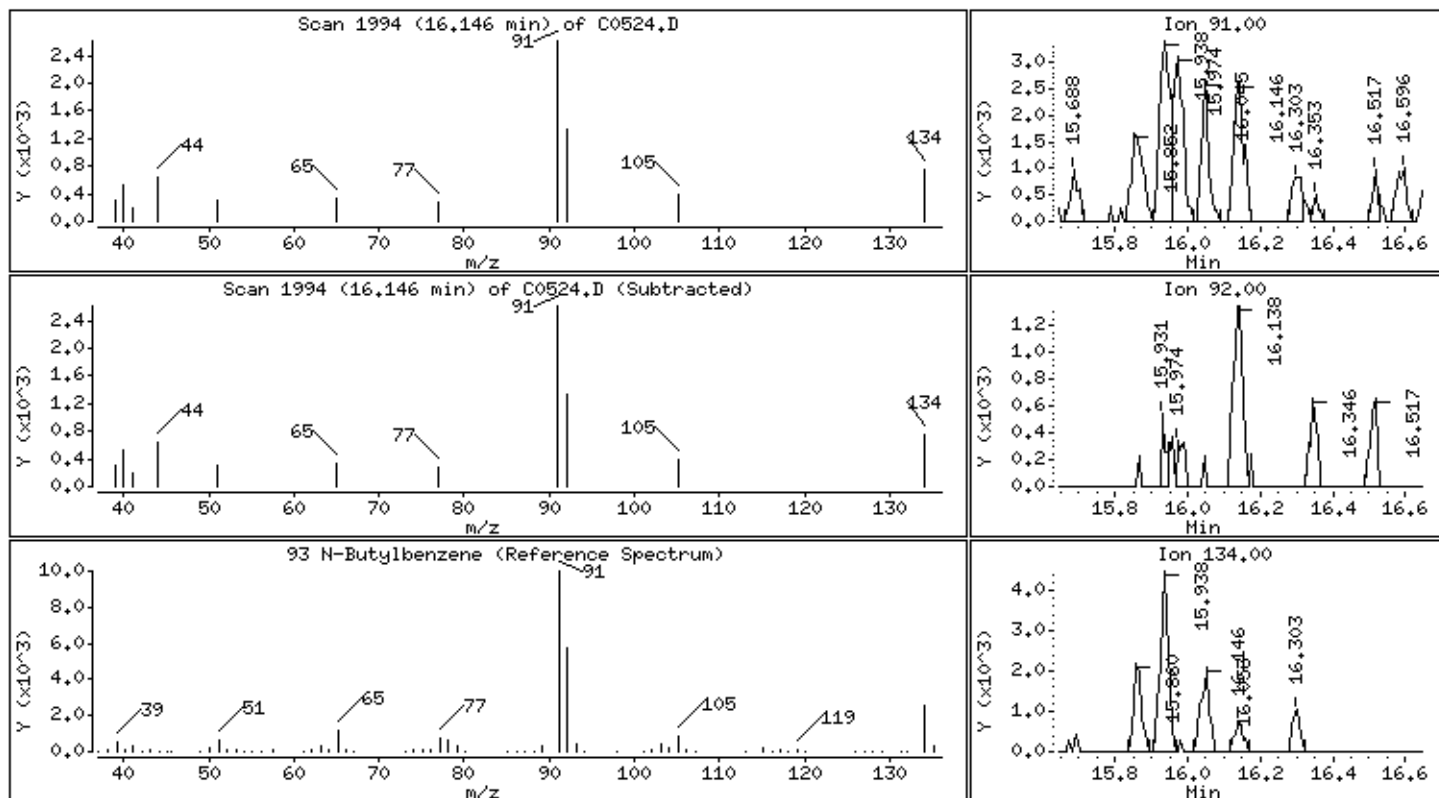
Client ID: OC9-MM15/DLTM040913

Instrument: gms-c.i

Sample Info: SG2375-11

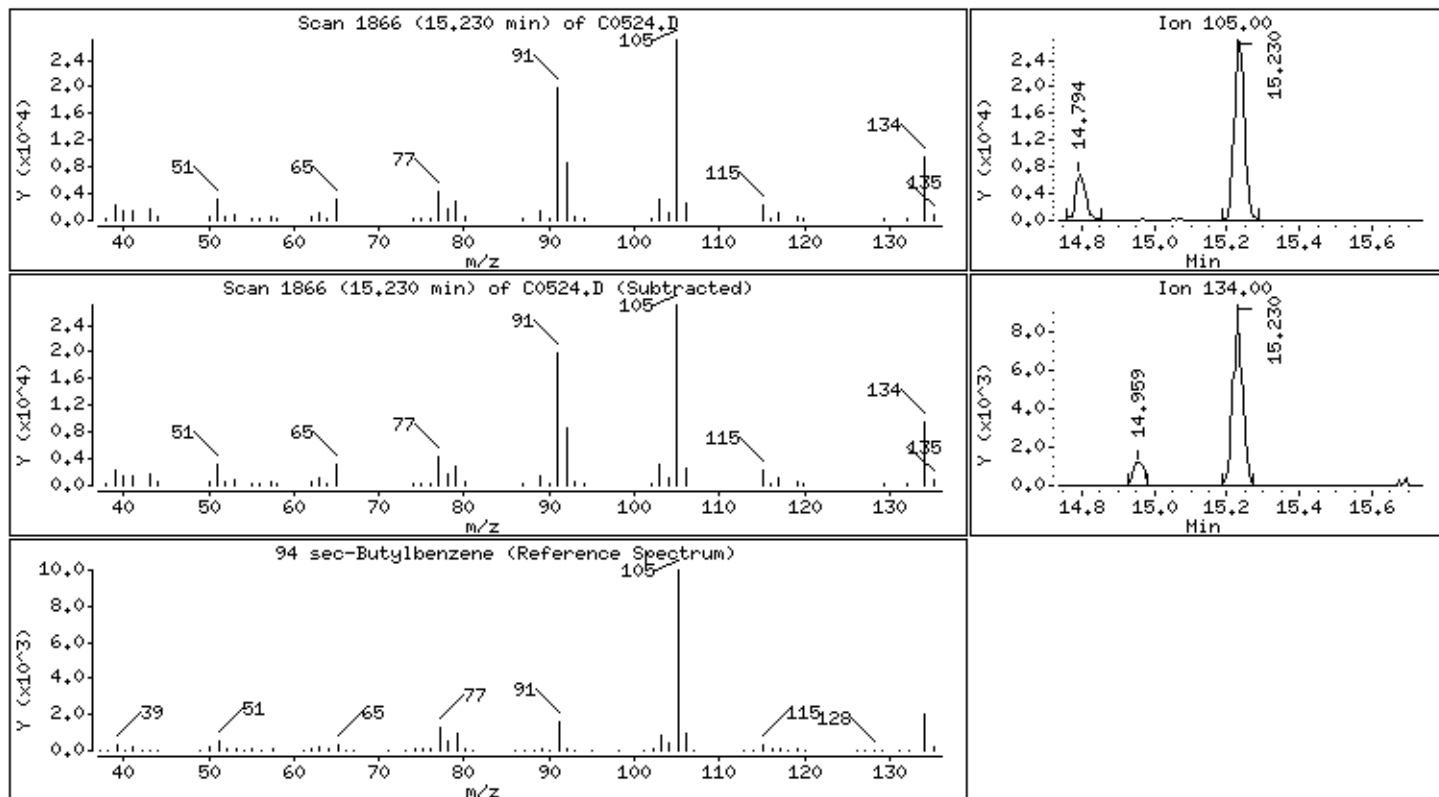
93 N-Butylbenzene

Concentration: 1.2 ug/l



94 sec-Butylbenzene

Concentration: 2.1 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041813,b\C0524.D

Date : 18-APR-2013 17:22

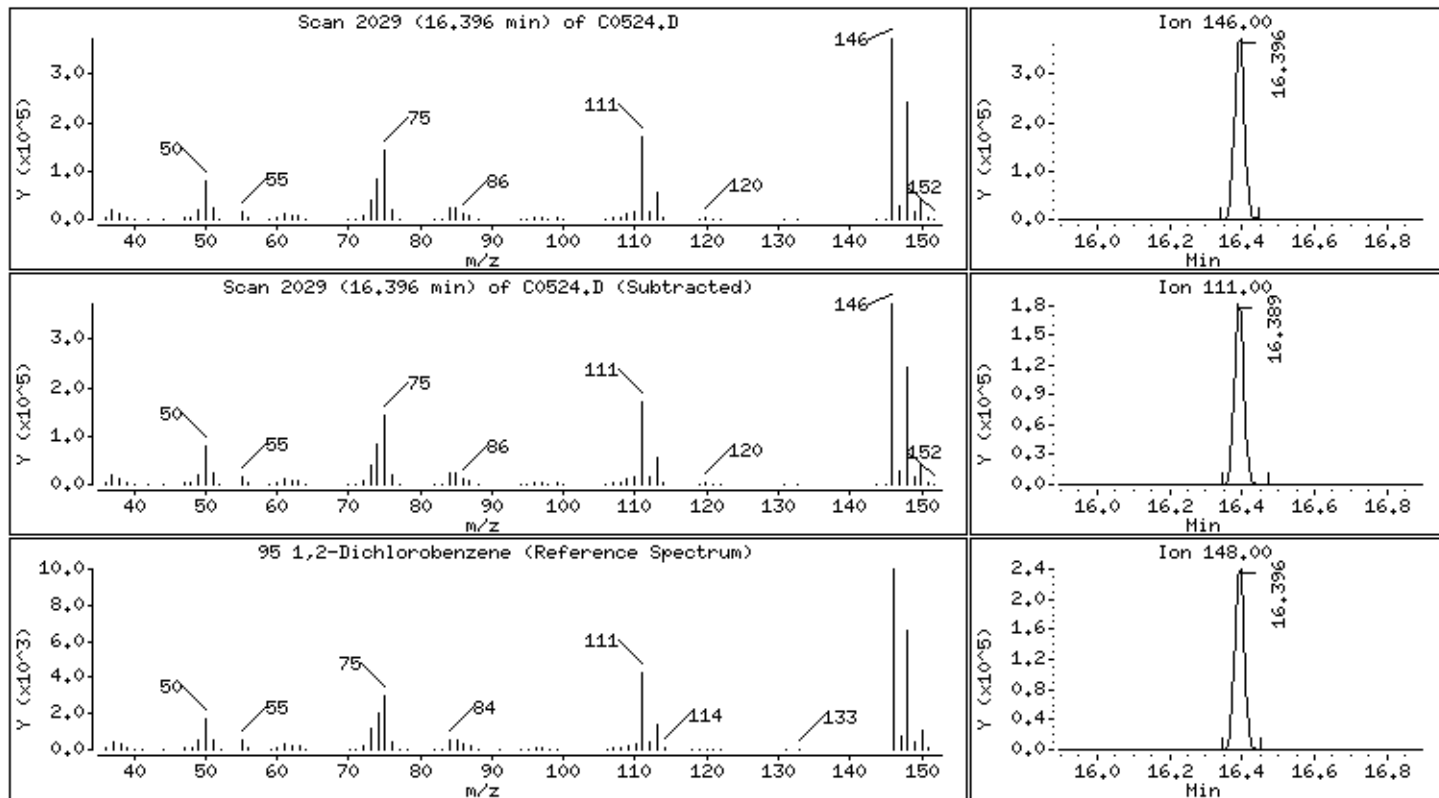
Client ID: OC9-MM15/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-11

95 1,2-Dichlorobenzene

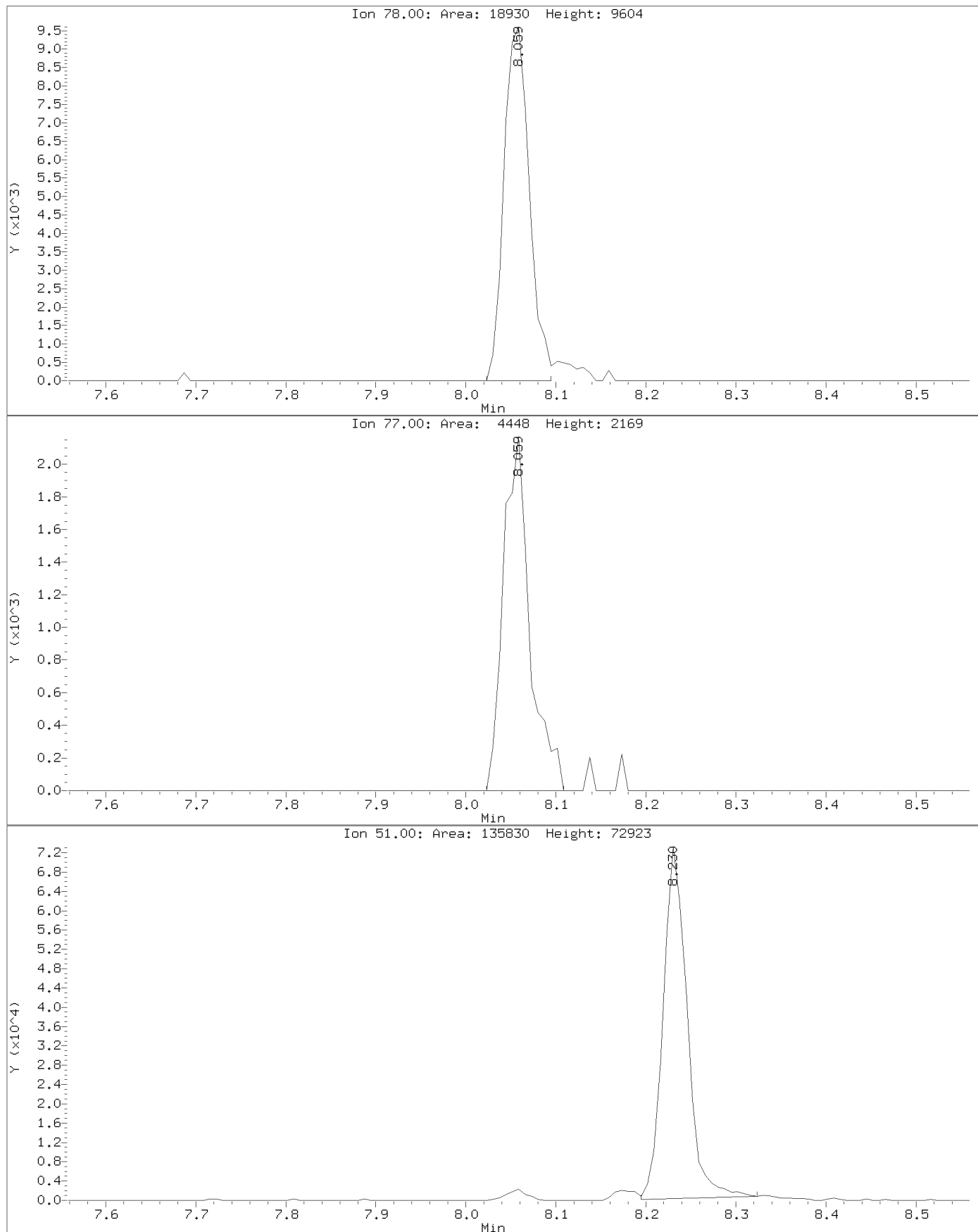
Concentration: 73.1 ug/l



BEFORE MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-c.i\0041813.b\00524.D
Injection Date: 18-APR-2013 17:22
Instrument: gcms-c.i
Client Sample ID: 009-MW15/DLTM040913

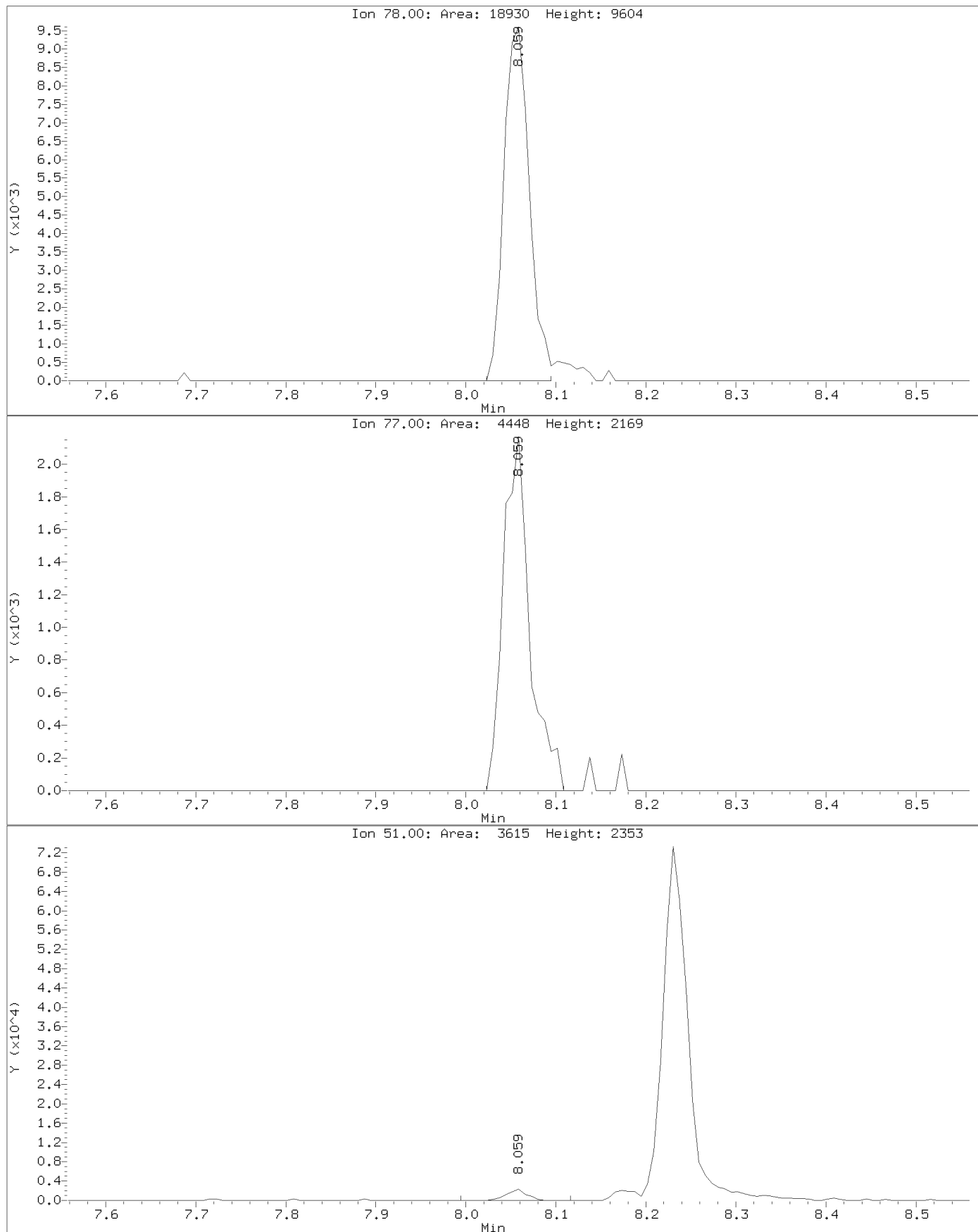
Compound: Benzene
CAS Number: 71-43-2



Data File: \\target_server\gg\chem\gcms-c.i\0041813.b\00524.D
Injection Date: 18-APR-2013 17:22
Instrument: gcms-c.i
Client Sample ID: 009-MW15/DLTM040913

AFTER MANUAL INTEGRATION

Compound: Benzene
CAS Number: 71-43-2



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11DL
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0547.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	8.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	8.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	8.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	8.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	8.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	UL	4.0	ug/L	4	1	4.0	1.4	2.0
Freon-113	U	4.0	ug/L	4	1	4.0	1.2	2.0
Acetone	U	20	ug/L	4	5	20.	8.8	10.
Carbon Disulfide	U	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl Acetate	U	4.0	ug/L	4	1	4.0	2.1	3.0
Methylene Chloride	U	20	ug/L	4	5	20.	4.5	10.
trans-1,2-Dichloroethene	UL	4.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	4.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	UL	4.0	ug/L	4	1	4.0	0.84	2.0
2-Butanone	U	20	ug/L	4	5	20.	5.2	10.
Chloroform	U	4.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Cyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	4.0	ug/L	4	1	4.0	0.88	2.0
Benzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	4.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	U	4.0	ug/L	4	1	4.0	1.1	2.0
Methylcyclohexane	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloropropane	U	4.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Methyl-2-Pentanone	U	20	ug/L	4	5	20.	5.3	10.
Toluene	U	4.0	ug/L	4	1	4.0	1.1	2.0
trans-1,3-Dichloropropene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	4.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	4.0	ug/L	4	1	4.0	1.6	2.0
2-Hexanone	U	20	ug/L	4	5	20.	6.8	10.
Dibromochloromethane	U	4.0	ug/L	4	1	4.0	1.2	2.0

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-11DL
Client ID: OC9-MW15/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0547.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	4.0	ug/L	4	1	4.0	0.88	2.0
Chlorobenzene		380	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	4.0	ug/L	4	1	4.0	0.84	2.0
M+P-Xylenes	U	8.0	ug/L	4	2	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Styrene	U	4.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	4.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	J	1.7	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	J	2.1	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene		21	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene		60	ug/L	4	1	4.0	0.60	2.0
1,2-Dibromo-3-Chloropropane	U	4.0	ug/L	4	1	4.0	2.0	2.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.5	2.0
bromochloromethane	U	4.0	ug/L	4	1	4.0	0.84	2.0
1,4-Dioxane	U	400	ug/L	4	100	400	35.	200
1,2,3-trichlorobenzene	U	4.0	ug/L	4	1	4.0	1.1	2.0
1,3,5-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.80	2.0
1,2,4-Trimethylbenzene	U	4.0	ug/L	4	1	4.0	0.76	2.0
4-Chlorotoluene	U	4.0	ug/L	4	1	4.0	0.76	2.0
n-Butylbenzene		4.2	ug/L	4	1	4.0	0.92	2.0
n-Propylbenzene	U	4.0	ug/L	4	1	4.0	1.0	2.0
Naphthalene	U	4.0	ug/L	4	1	4.0	1.2	2.0
p-Isopropyltoluene	U	4.0	ug/L	4	1	4.0	1.0	2.0
sec-Butylbenzene	J	1.7	ug/L	4	1	4.0	0.84	2.0
tert-Butylbenzene	U	4.0	ug/L	4	1	4.0	1.2	2.0
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		99.1	%					
P-Bromofluorobenzene		96.5	%					
Dibromofluoromethane		91.3	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0547.D
 Report Date: 23-Apr-2013 11:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041913.b\C0547.D
 Lab Smp Id: SG2375-11DL Client Smp ID: OC9-MW15/DLTM040913
 Inj Date : 19-APR-2013 16:28 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : SG2375-11DL
 Misc Info : WG122901, WG122628-4
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041913.b\C826A67.m
 Meth Date : 23-Apr-2013 11:05 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 15
 Dil Factor: 4.00000
 Integrator: HP RTE
 Target Version: 4.12
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

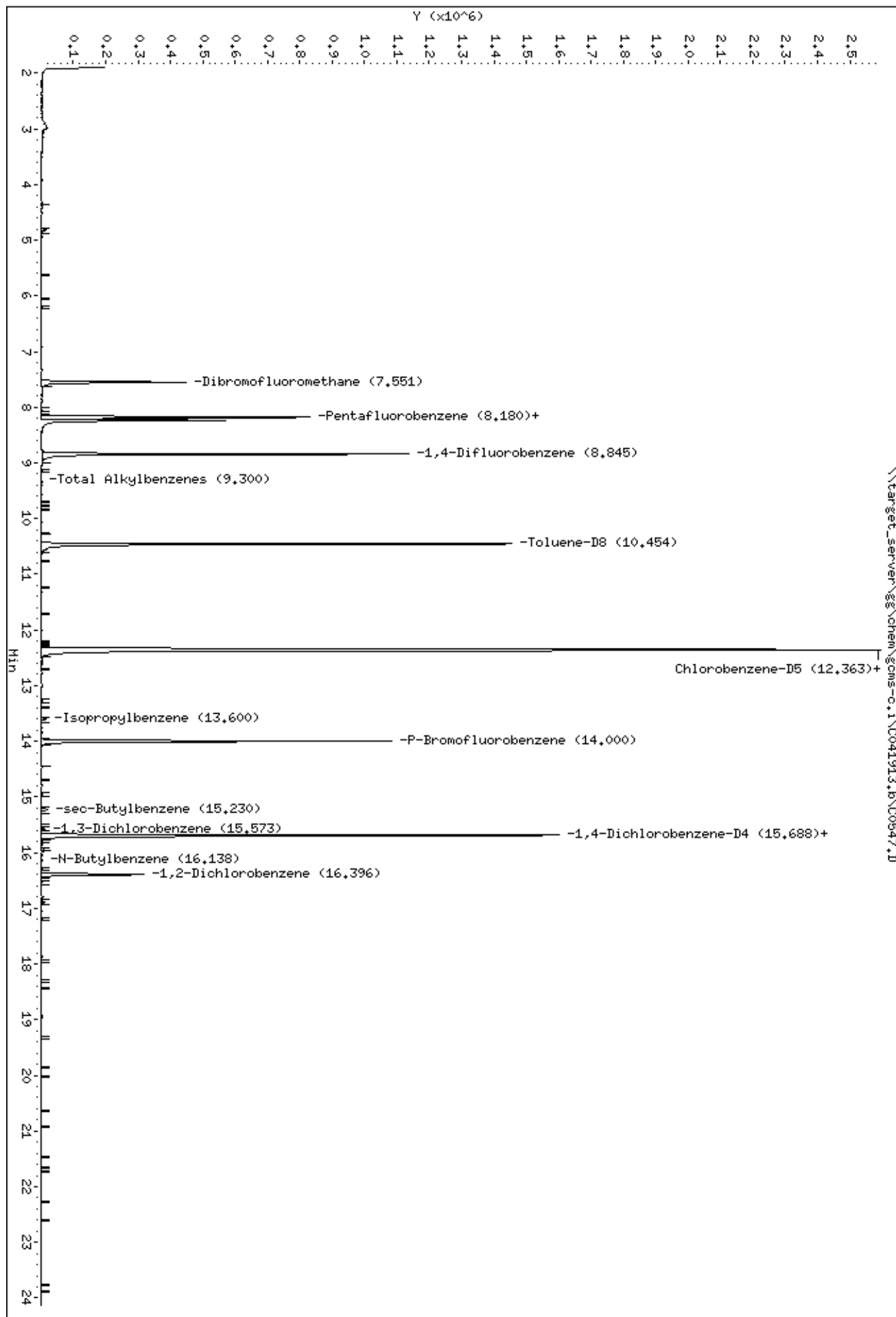
Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 37 Dibromofluoromethane	113	7.550	7.550	(0.923)	273270	45.6561	45.6		
* 42 Pentafluorobenzene	168	8.180	8.179	(1.000)	499471	50.0000			
\$ 45 1,2-Dichloroethane-D4	65	8.237	8.236	(1.007)	420145	53.7563	53.8		
* 49 1,4-Difluorobenzene	114	8.845	8.844	(1.000)	839020	50.0000			
\$ 55 Toluene-D8	98	10.453	10.453	(1.182)	911324	49.5498	49.5		
* 66 Chlorobenzene-D5	117	12.341	12.340	(1.000)	812169	50.0000			
67 Chlorobenzene	112	12.362	12.362	(1.002)	1197085	95.5616	382		
75 Isopropylbenzene	105	13.599	13.592	(0.867)	8578	0.42239	1.7(a)		
\$ 76 P-Bromofluorobenzene	95	14.000	13.999	(1.583)	398739	48.2471	48.2		
90 1,3-Dichlorobenzene	146	15.573	15.572	(0.992)	5193	0.53012	2.1(a)		
* 91 1,4-Dichlorobenzene-D4	152	15.694	15.694	(1.000)	425183	50.0000			
92 1,4-Dichlorobenzene	146	15.716	15.715	(1.001)	59084	5.32724	21.3		
93 N-Butylbenzene	91	16.138	16.143	(1.028)	1767	1.05493	4.2		
94 sec-Butylbenzene	105	15.230	15.236	(0.970)	10247	0.42891	1.7(a)		
95 1,2-Dichlorobenzene	146	16.395	16.393	(1.045)	137539	14.9672	59.9		
M 153 Total Alkylbenzenes	100				12014	1.48384	5.9(a)		

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\goms-c.i\CO41913.b\CO547.D
Date: 19-APR-2013 16:28
Client ID: OC9-MM15/DLTH040913
Sample Info: SG2375-11DL

Instrument: goms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0547.D

Date : 19-APR-2013 16:28

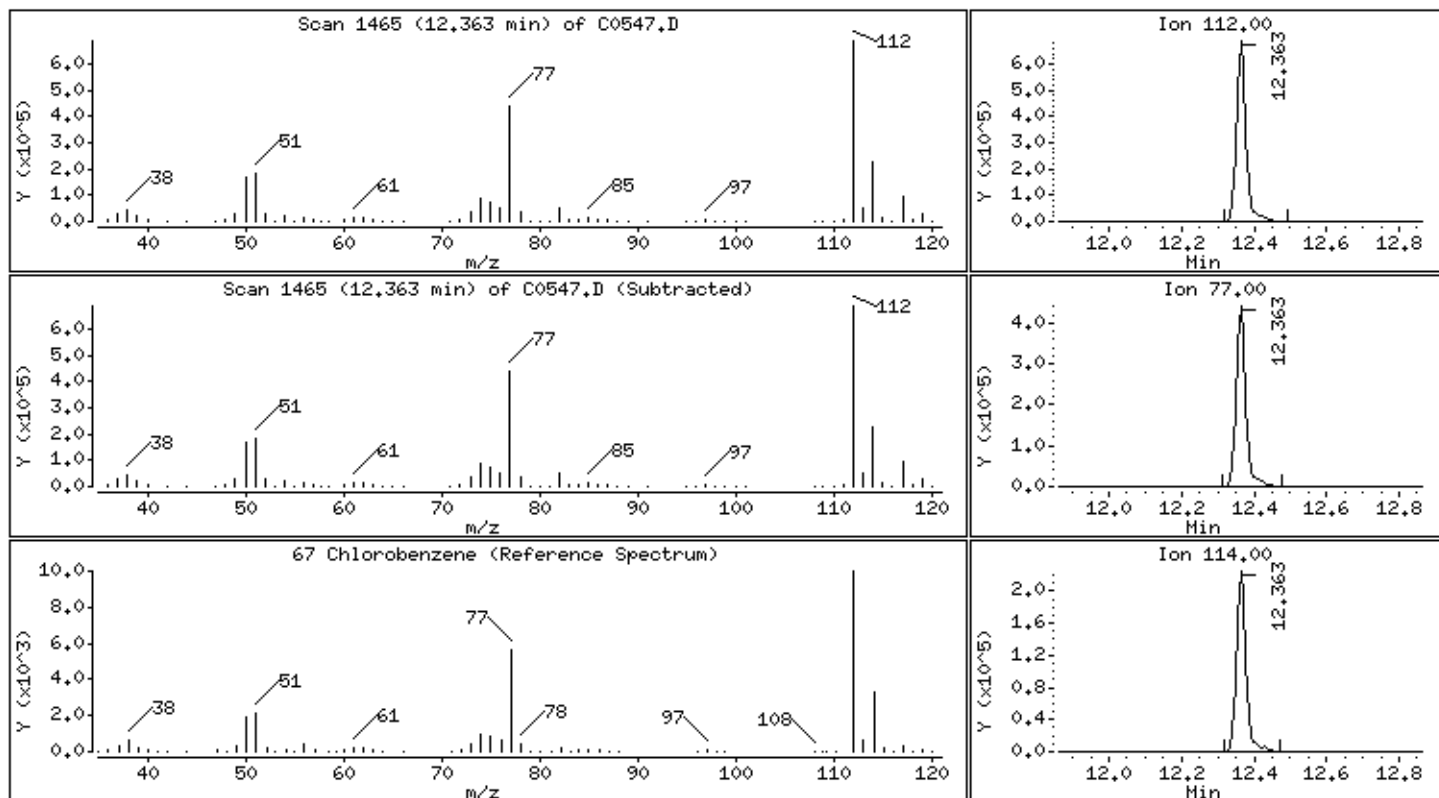
Client ID: OC9-MM15/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-11DL

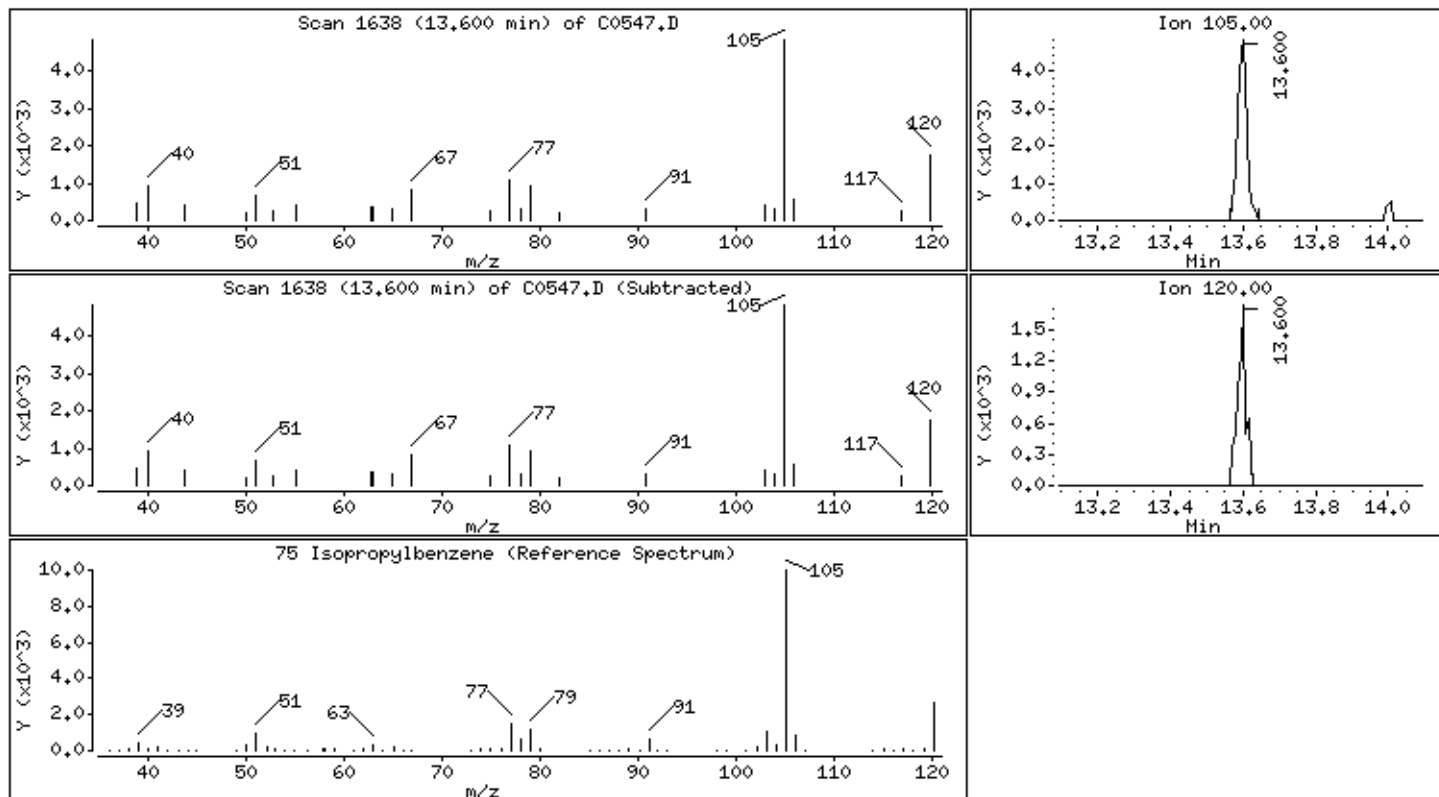
67 Chlorobenzene

Concentration: 382 ug/l



75 Isopropylbenzene

Concentration: 1.7 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041913,b\C0547.D

Date : 19-APR-2013 16:28

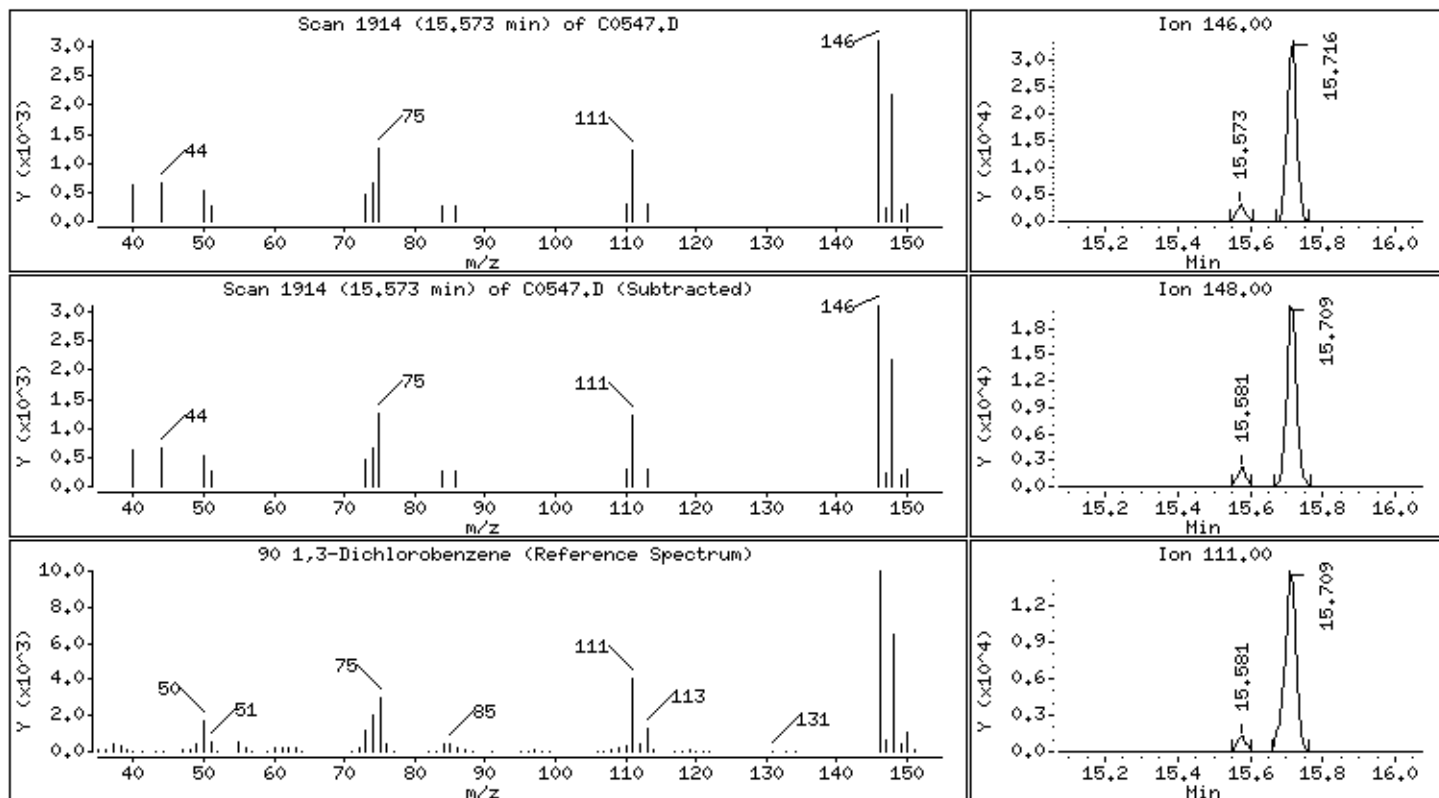
Client ID: OC9-MM15/DLTM040913

Instrument: gms-c.i

Sample Info: SG2375-11DL

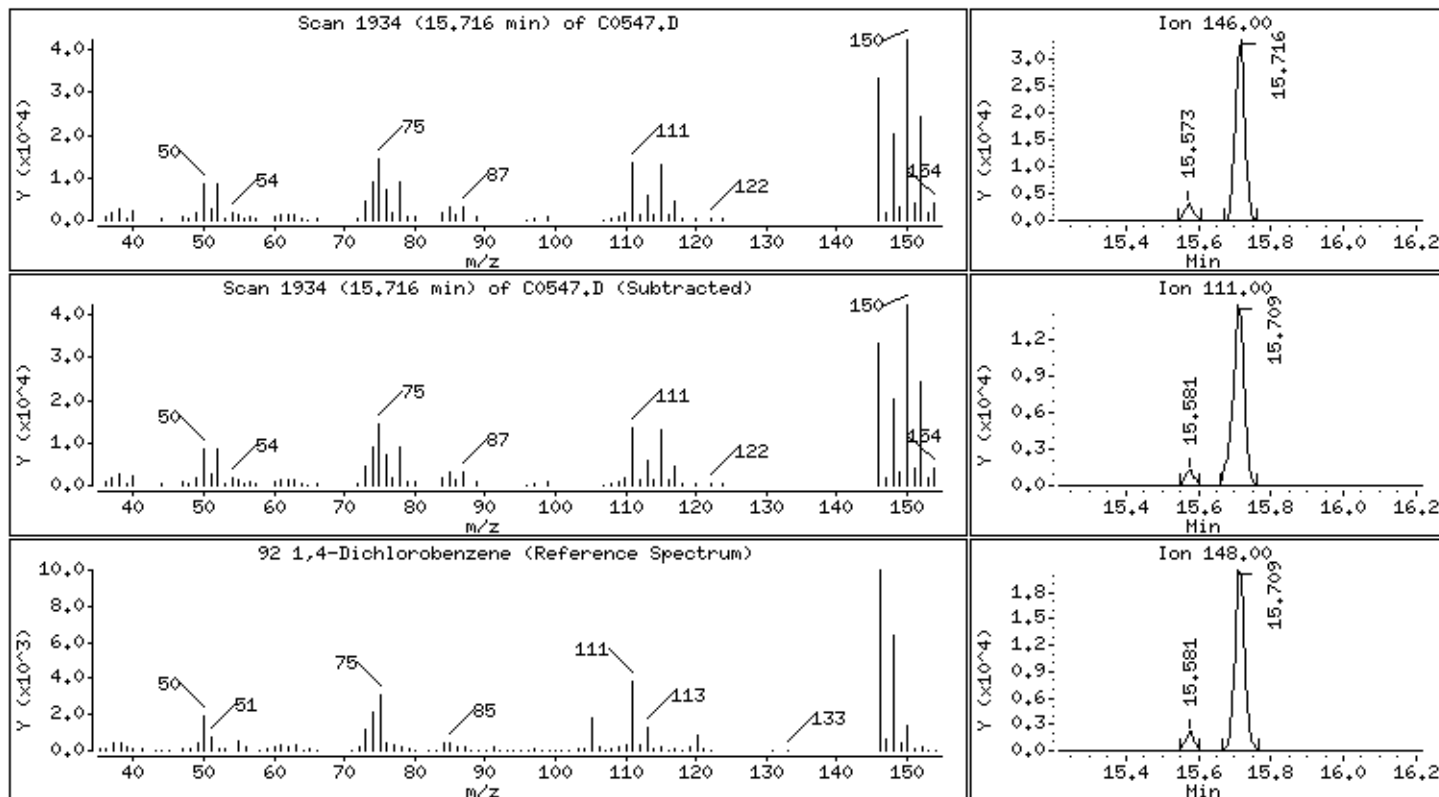
90 1,3-Dichlorobenzene

Concentration: 2.1 ug/l



92 1,4-Dichlorobenzene

Concentration: 21.3 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0547.D

Date : 19-APR-2013 16:28

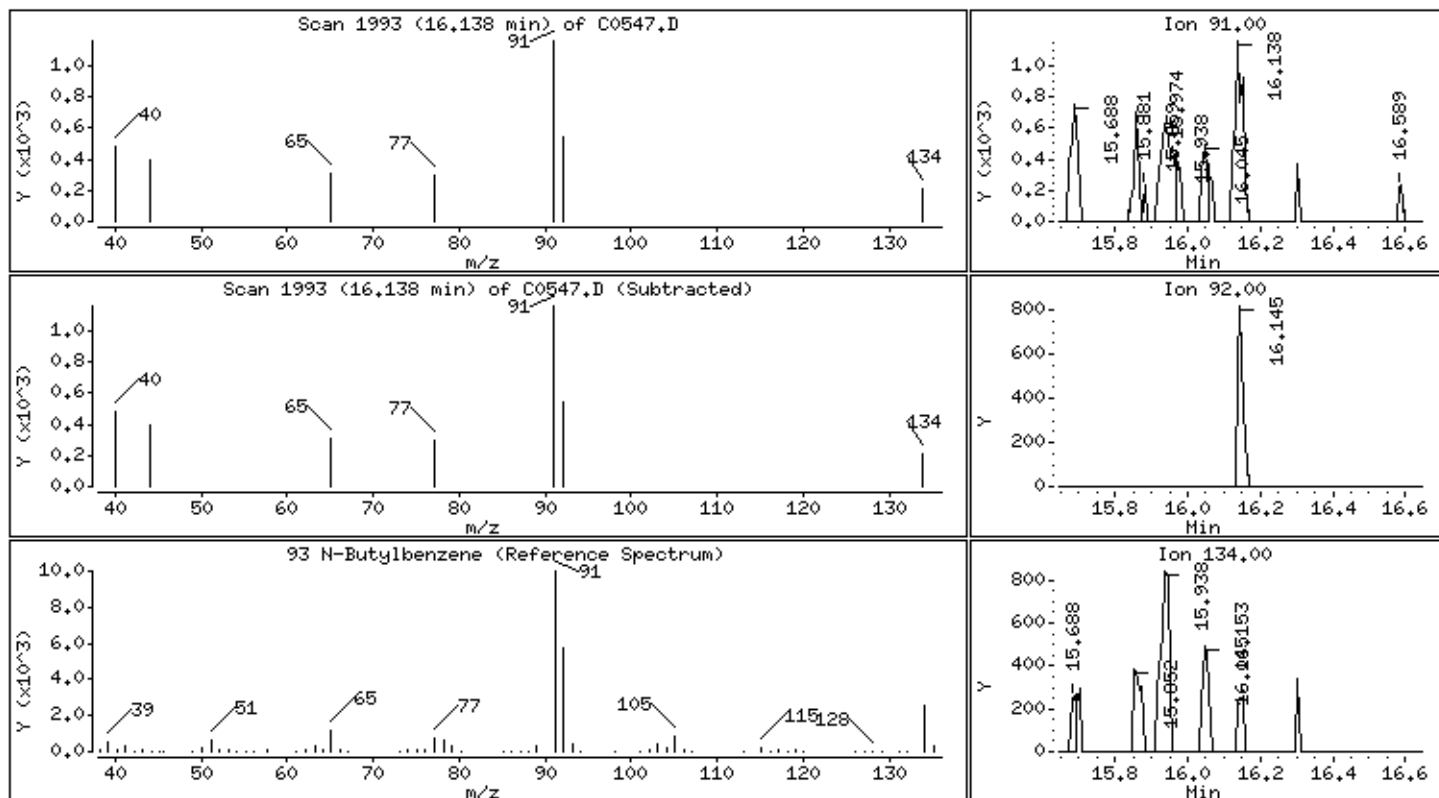
Client ID: OC9-MM15/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-11DL

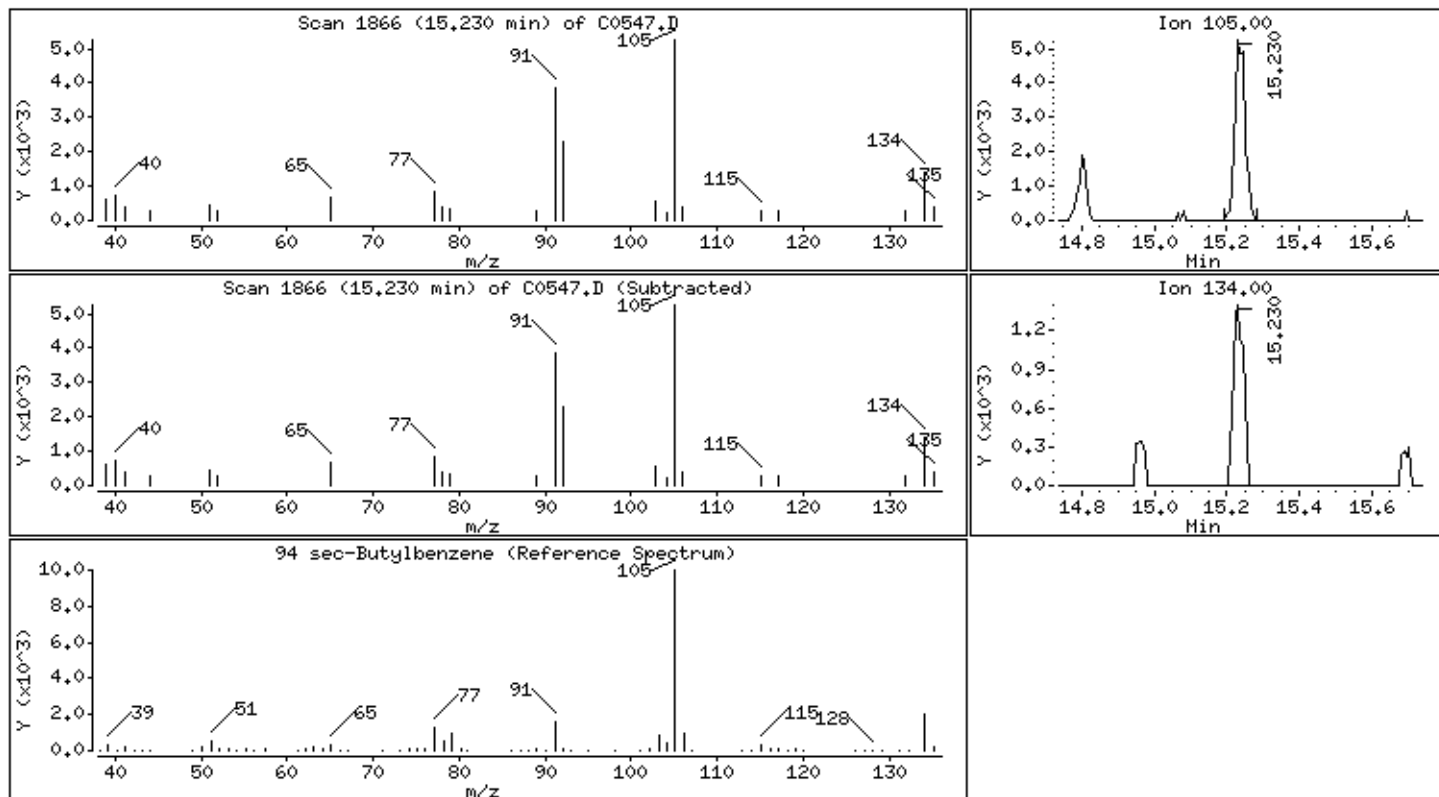
93 N-Butylbenzene

Concentration: 4.2 ug/l



94 sec-Butylbenzene

Concentration: 1.7 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0547.D

Date : 19-APR-2013 16:28

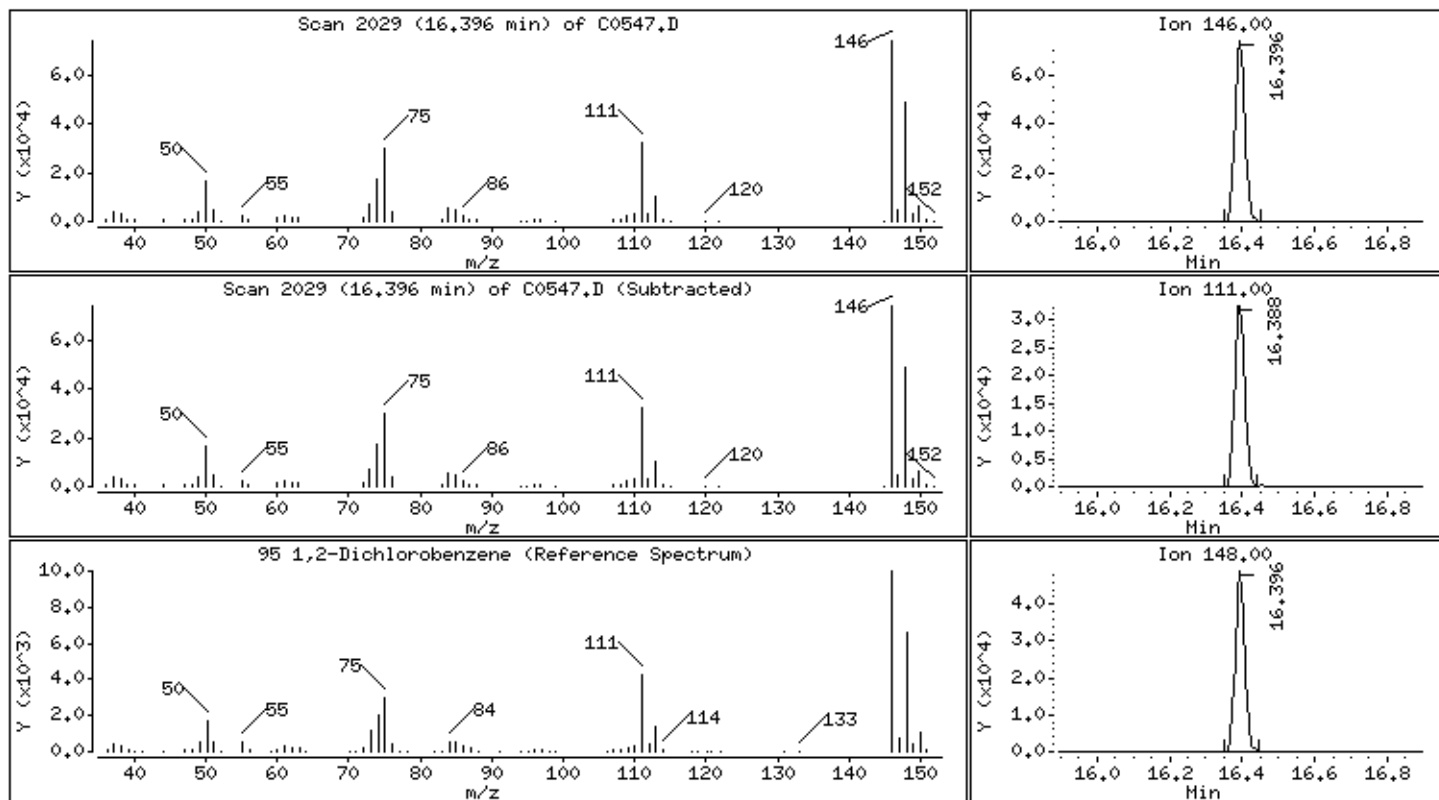
Client ID: OC9-MM15/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-11DL

95 1,2-Dichlorobenzene

Concentration: 59.9 ug/l



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0548.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	1.3	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane		2.2	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.92	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane		3.7	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0548.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	250	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene		1.5	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	J	1.9	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		3.1	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.4	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		22	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		27	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene		3.6	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.4	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene		2.4	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.8	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.66	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		106.	%					
Toluene-d8		100.	%					
P-Bromofluorobenzene		98.5	%					
Dibromofluoromethane		91.4	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0548.D
Report Date: 23-Apr-2013 11:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041913.b\C0548.D
Lab Smp Id: SG2375-12 Client Smp ID: AOC9-MW14LTM040913
Inj Date : 19-APR-2013 16:59 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-12
Misc Info : WG122901, WG122628-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C041913.b\C826A67.m
Meth Date : 23-Apr-2013 11:05 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	7702	1.28033	1.3	
M 30 1,2-Dichloroethylene (total)	96				7702	1.28033	1.3(a)	
\$ 37 Dibromofluoromethane	113	7.548	7.550	(0.922)	274513	45.7038	45.7	
41 Benzene	78	8.063	8.057	(0.912)	18157	0.92467	0.92(aM)	M10
* 42 Pentafluorobenzene	168	8.185	8.179	(1.000)	501219	50.0000		
43 Cyclohexane	56	7.169	7.178	(0.876)	19769	2.20603	2.2	
\$ 45 1,2-Dichloroethane-D4	65	8.235	8.236	(1.006)	416314	53.0803	53.1	
48 Trichloroethene	95	8.792	8.794	(0.994)	5300	1.00697	1.0	
* 49 1,4-Difluorobenzene	114	8.842	8.844	(1.000)	833098	50.0000		
\$ 55 Toluene-D8	98	10.458	10.453	(1.183)	914047	50.0512	50.0	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	834154	50.0000		
67 Chlorobenzene	112	12.367	12.362	(1.002)	3234410	251.393	251(A)	
68 Ethylbenzene	106	12.396	12.398	(1.005)	10914	1.49325	1.5	
M 70 Xylenes (total)	106				16687	1.93048	1.9(a)	11:32 am, Apr 23, 2013
71 m+p-Xylenes	106	12.589	12.583	(1.020)	16687	1.93048	1.9(a)	
75 Isopropylbenzene	105	13.597	13.592	(0.866)	65362	3.10283	3.1	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.583)	404056	49.2380	49.2	
80 N-Propylbenzene	91	14.191	14.192	(0.904)	52246	2.40613	2.4	
86 tert-Butylbenzene	119	14.963	14.957	(0.954)	12029	0.66363	0.66(a)	
88 1,2,4-Trimethylbenzene	105	15.070	15.072	(0.960)	72746	3.61527	3.6	
90 1,3-Dichlorobenzene	146	15.578	15.572	(0.993)	14731	1.44974	1.4	
* 91 1,4-Dichlorobenzene-D4	152	15.692	15.694	(1.000)	441036	50.0000		
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.001)	247300	21.4960	21.5	
93 N-Butylbenzene	91	16.143	16.143	(1.029)	12453	1.38368	1.4	

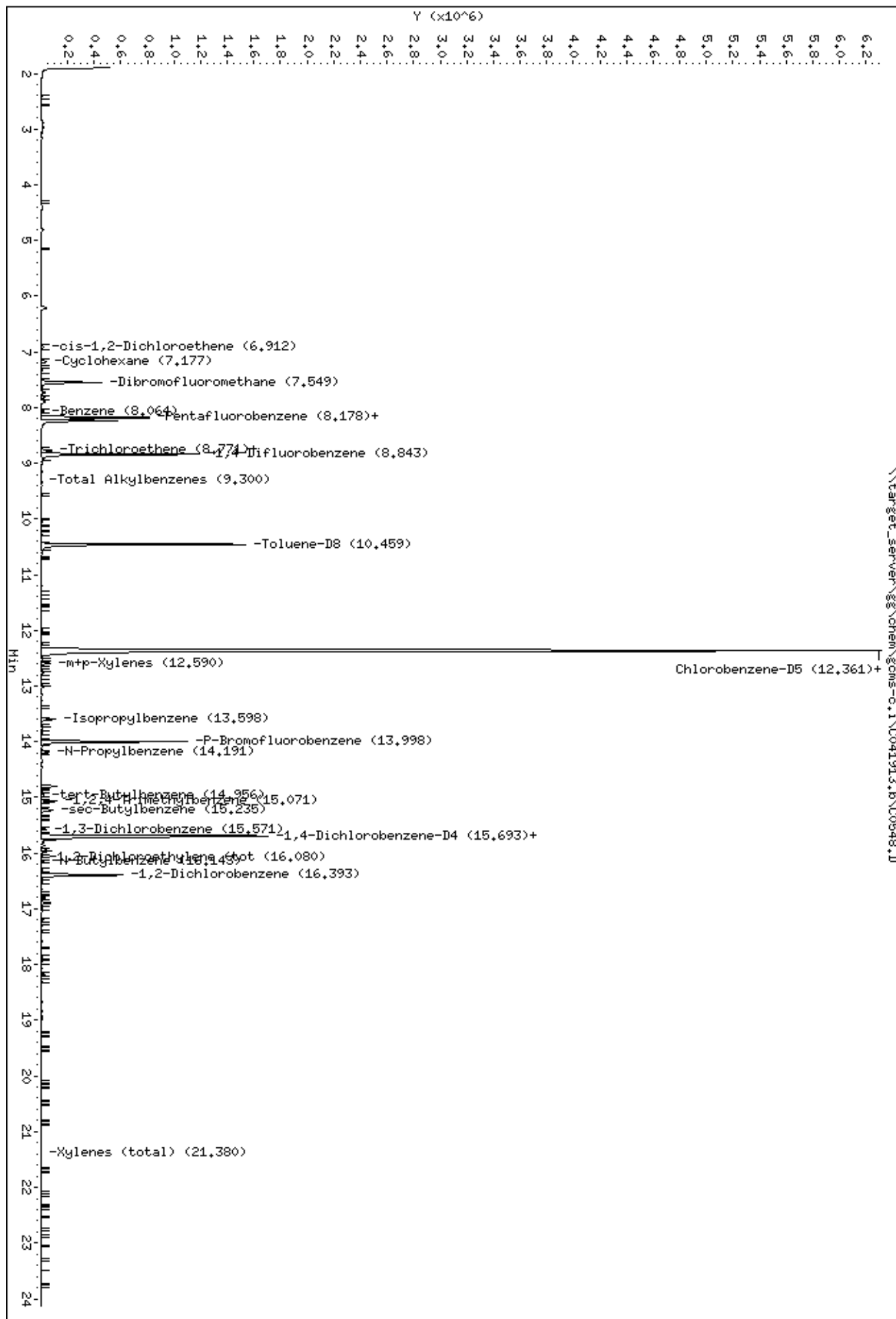
Compounds	QUANT SIG							CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
94 sec-Butylbenzene	105	15.235	15.236	(0.971)	45809	1.84851	1.8			
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	255102	26.7628	26.8			
100 1,2,3-Trimethylbenzene	105	15.757	15.758	(1.004)	75364	4.03281	4.0			
104 Methylcyclohexane	83	8.771	8.772	(1.072)	29692	3.71195	3.7			
M 153 Total Alkylbenzenes	100				195283	9.91721	9.9			

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount
exceeded maximum amount.
- M - Compound response manually integrated.

Data File: \\target_server\gs\chem\goms-c.i\CO41913.b\CO548.D
 Date : 19-APR-2013 16:59
 Client ID: AOC9-HM14LTH040913
 Sample Info: SG2375-12

Instrument: goms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

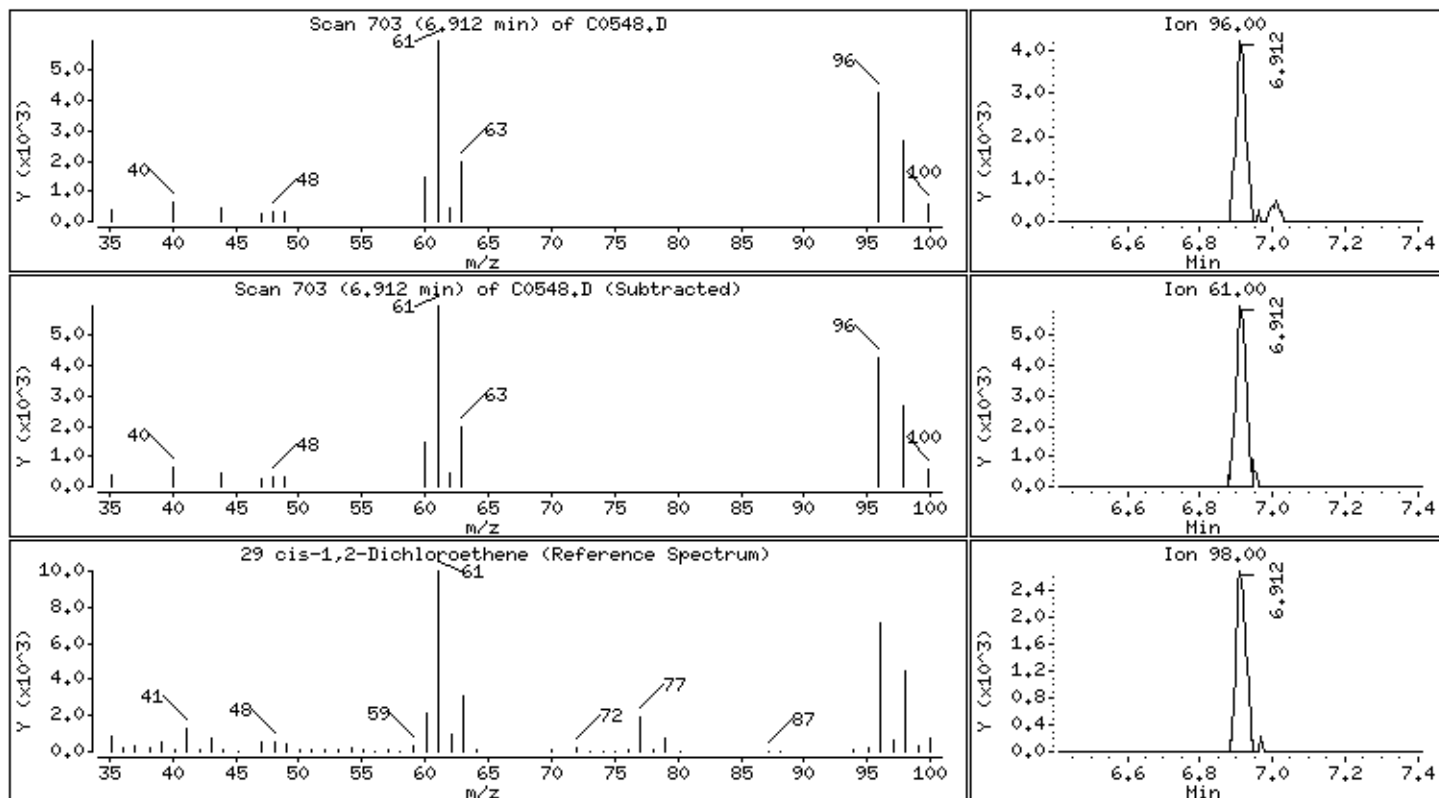
Client ID: AOC9-MW14LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-12

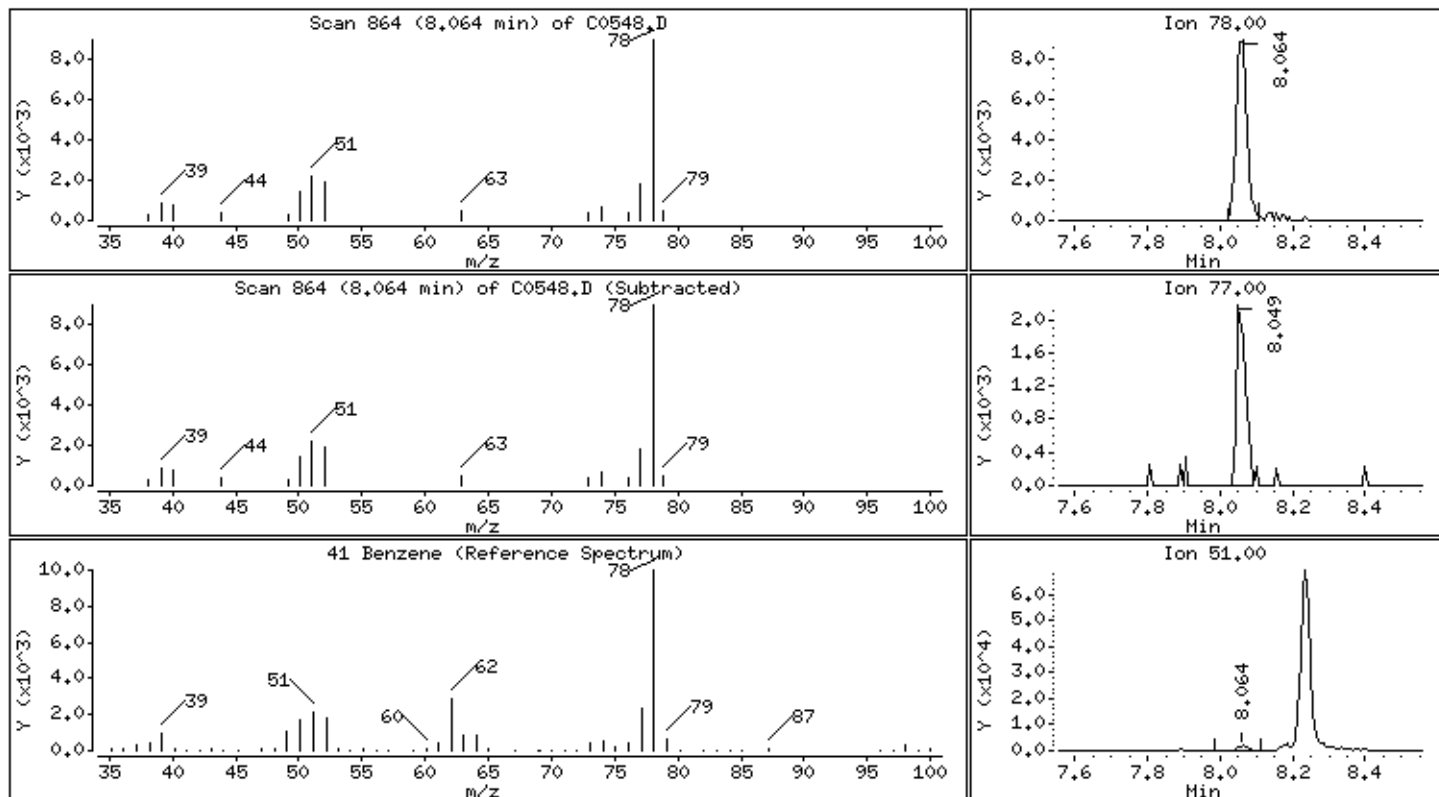
29 cis-1,2-Dichloroethene

Concentration: 1.3 ug/l



41 Benzene

Concentration: 0.92 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

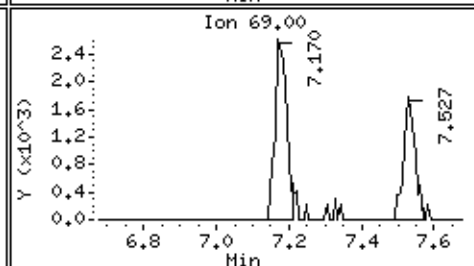
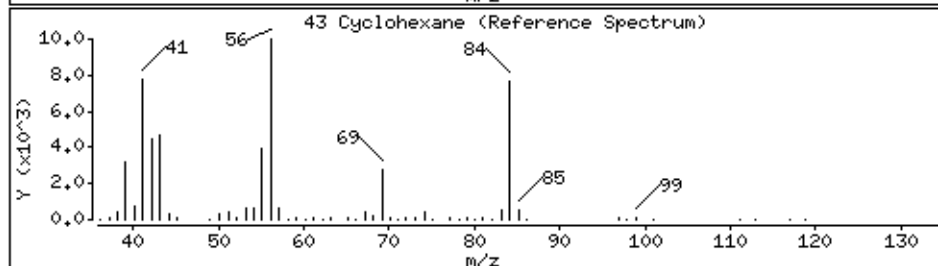
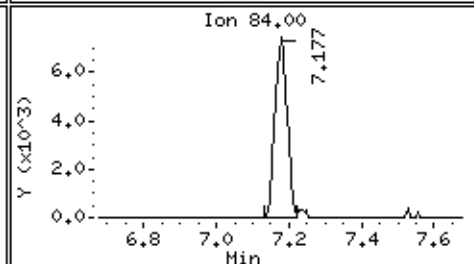
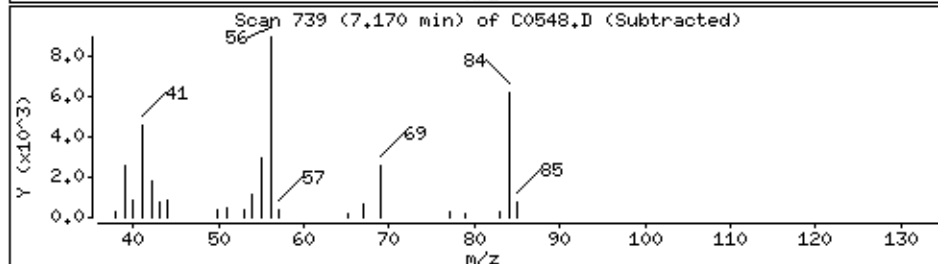
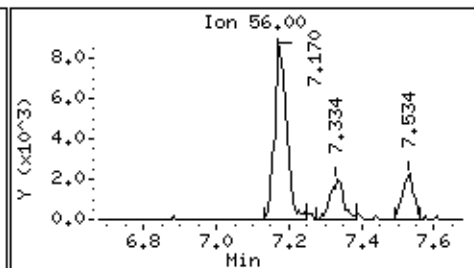
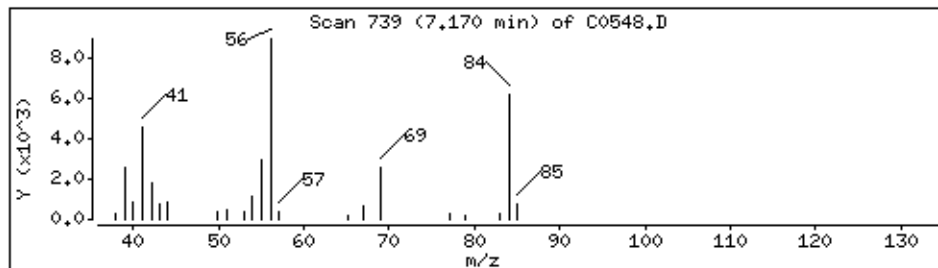
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Instrument: gcms-c.i

Sample Info: SG2375-12

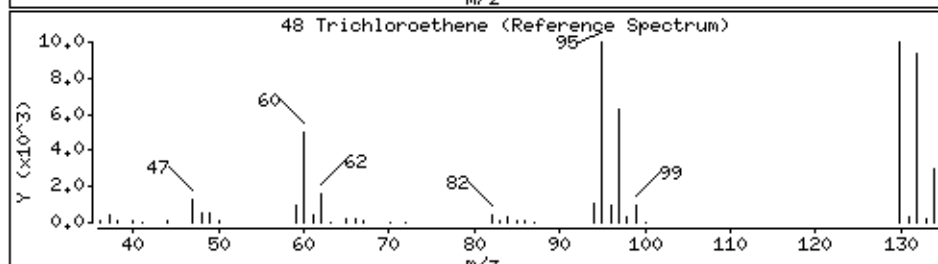
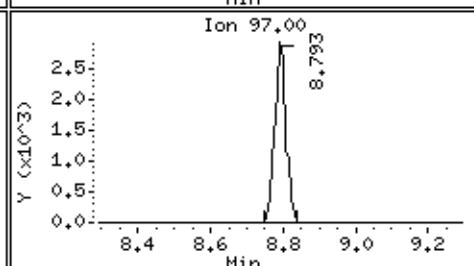
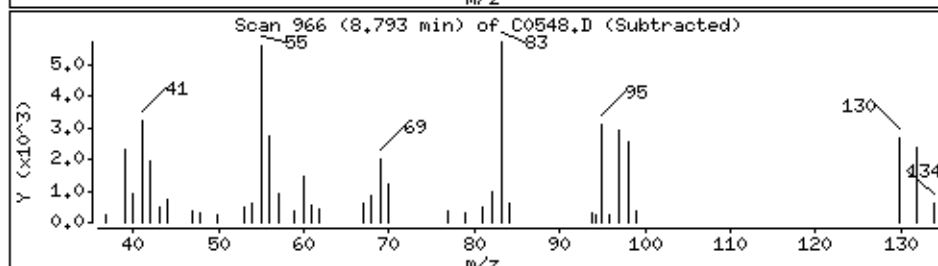
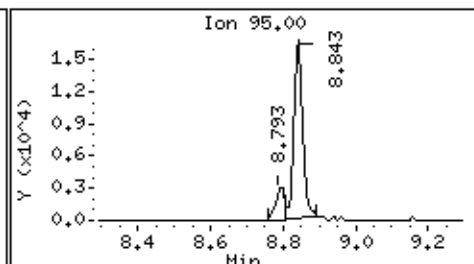
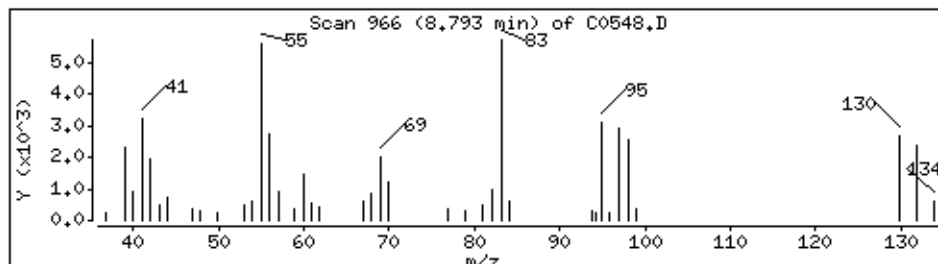
43 Cyclohexane

Concentration: 2.2 ug/l



48 Trichloroethene

Concentration: 1.0 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

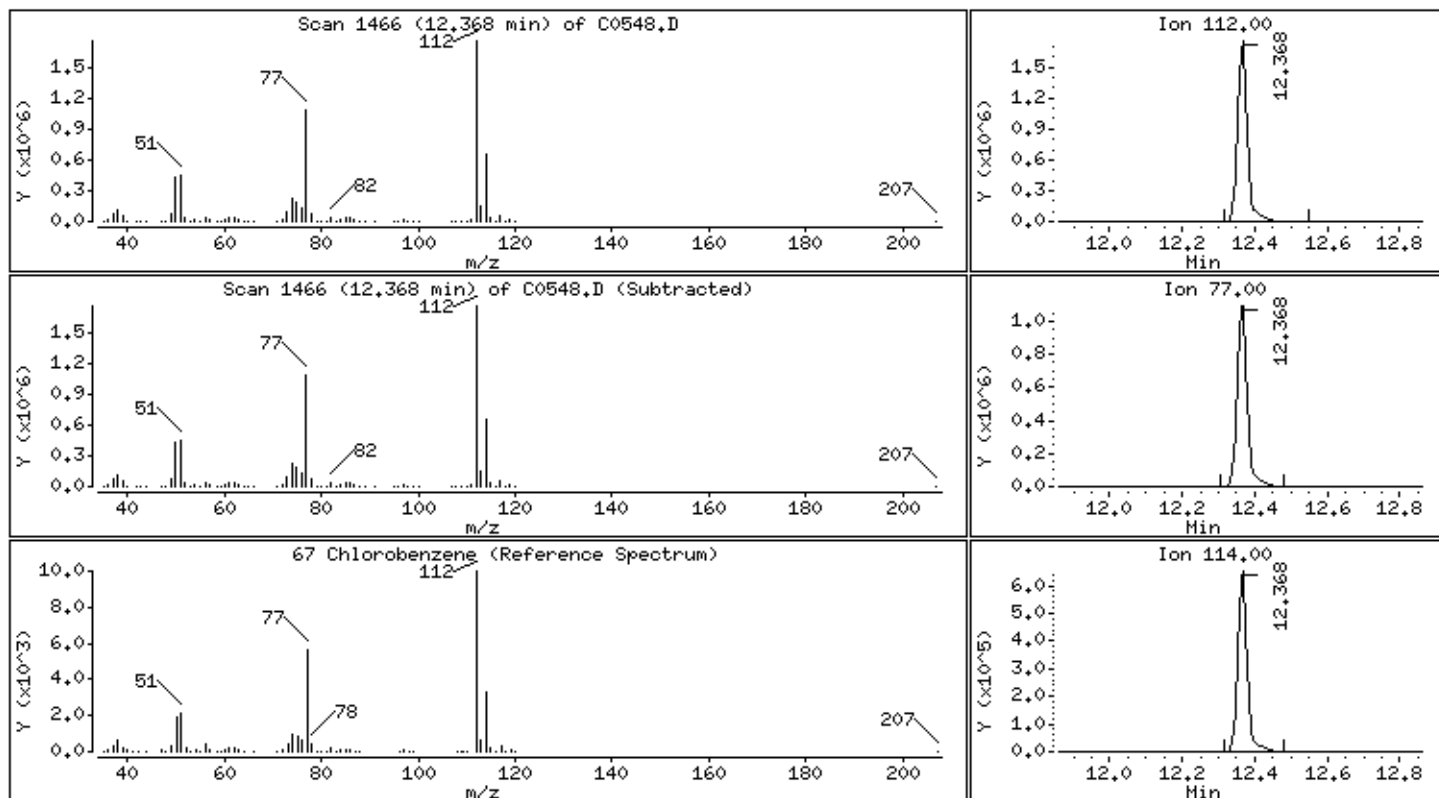
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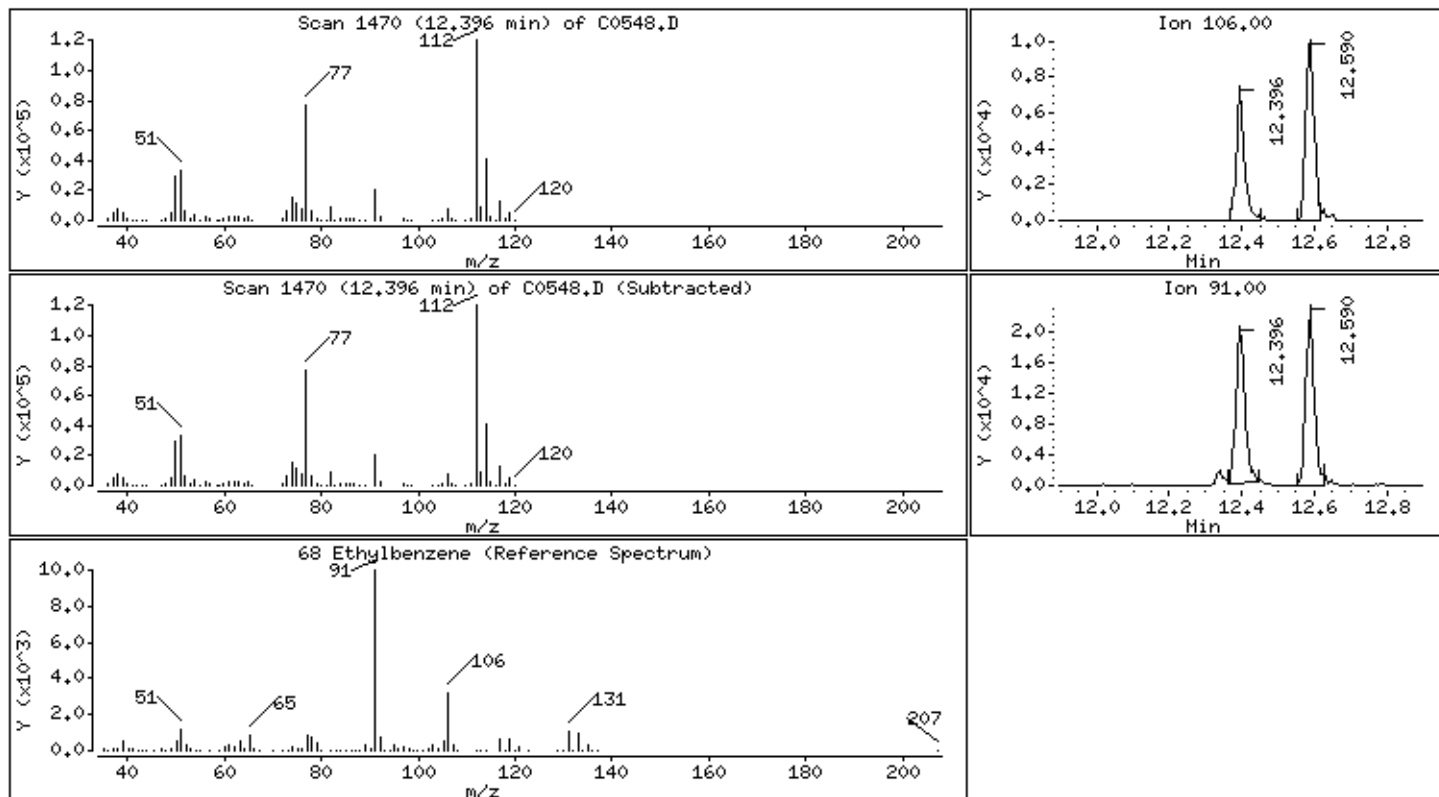
67 Chlorobenzene

Concentration: 251 ug/l



68 Ethylbenzene

Concentration: 1.5 ug/l



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Date : 19-APR-2013 16:59

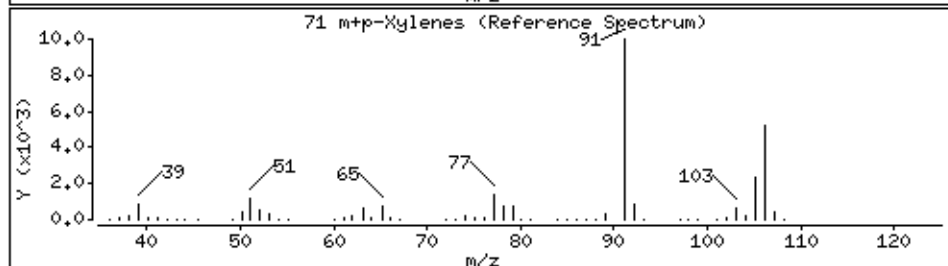
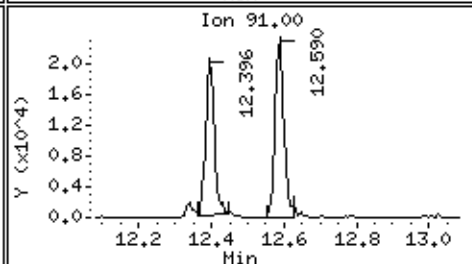
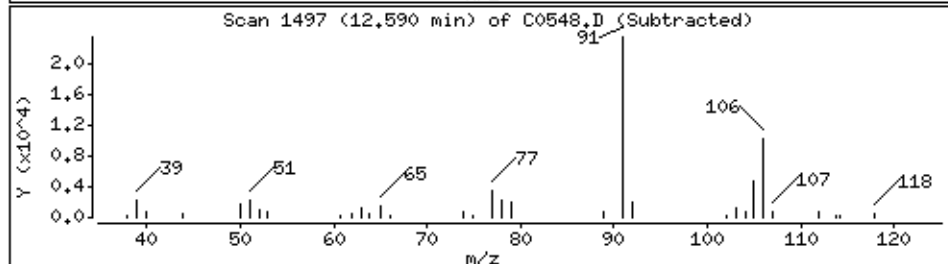
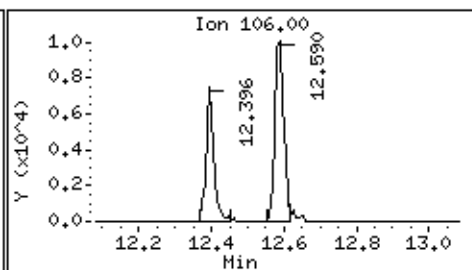
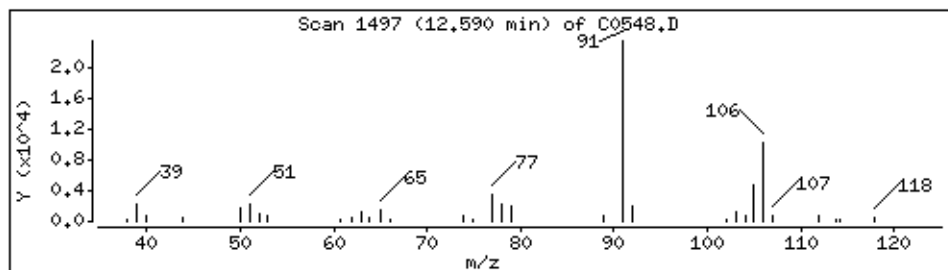
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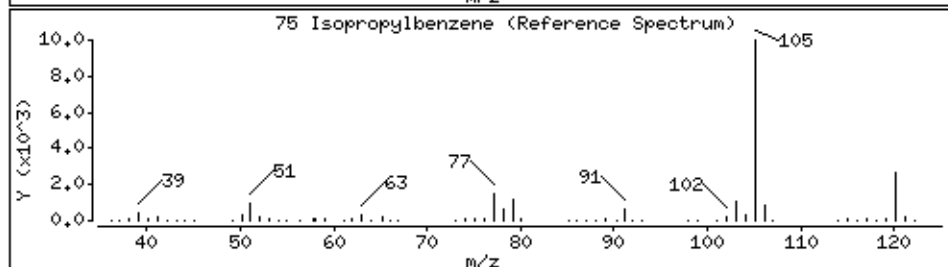
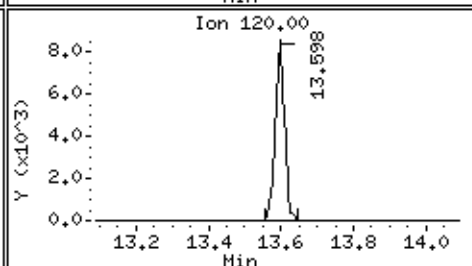
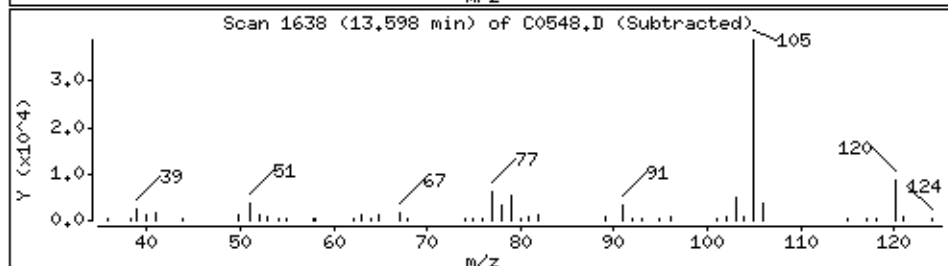
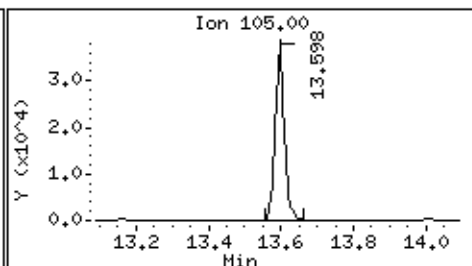
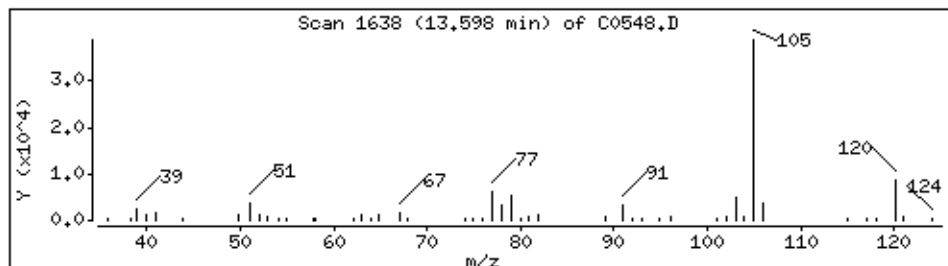
71 m+p-Xylenes

Concentration: 1.9 ug/l



75 Isopropylbenzene

Concentration: 3.1 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

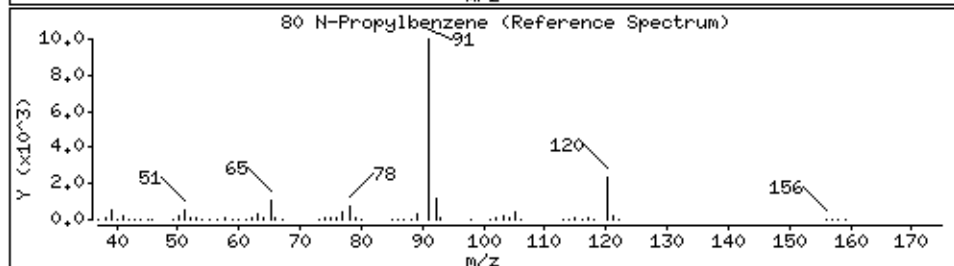
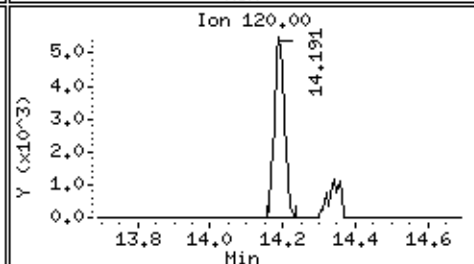
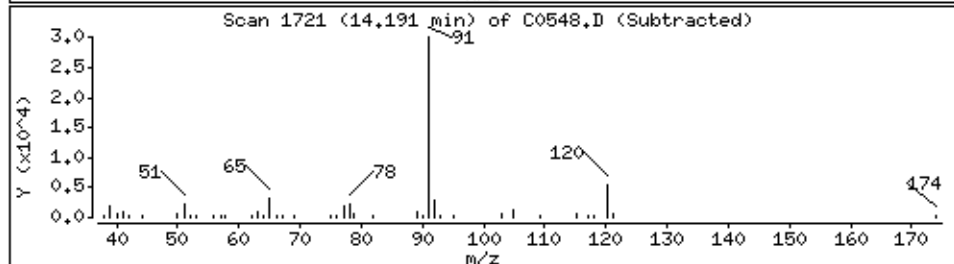
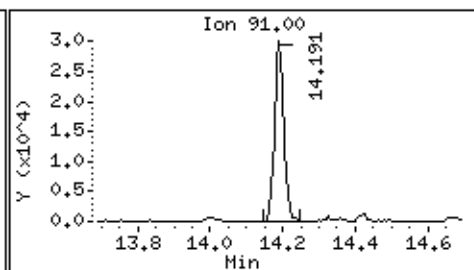
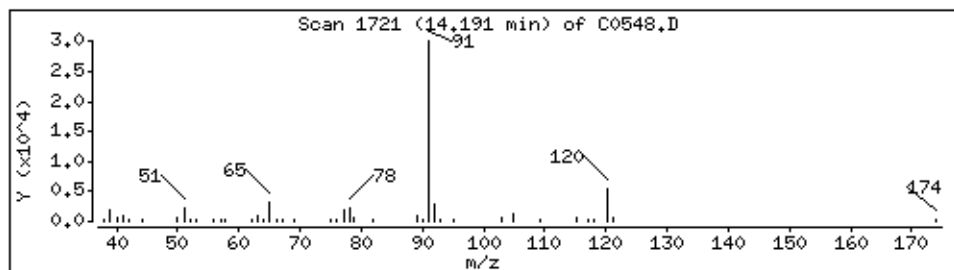
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Sample Info: SG2375-12

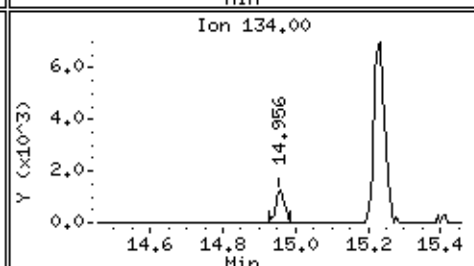
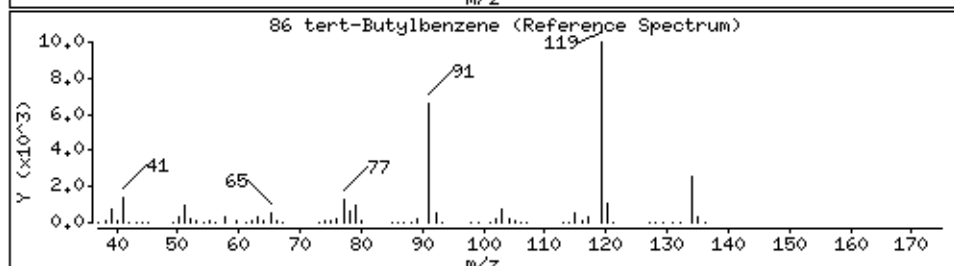
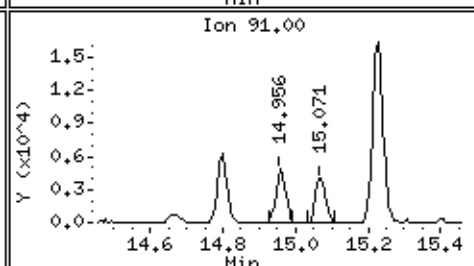
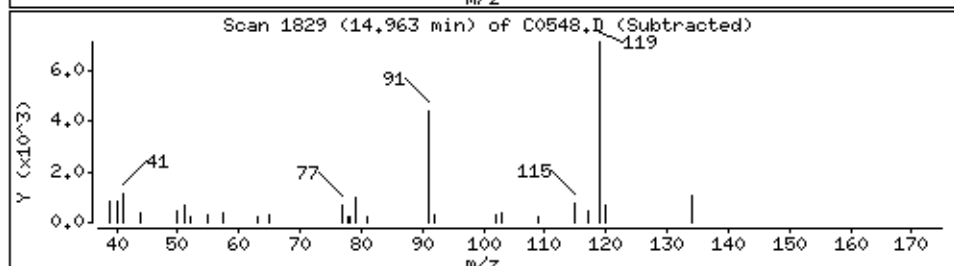
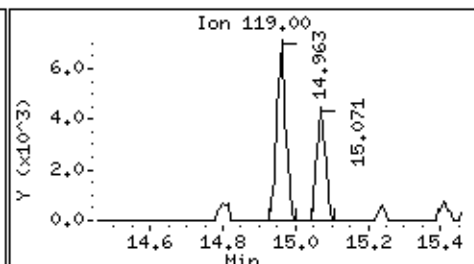
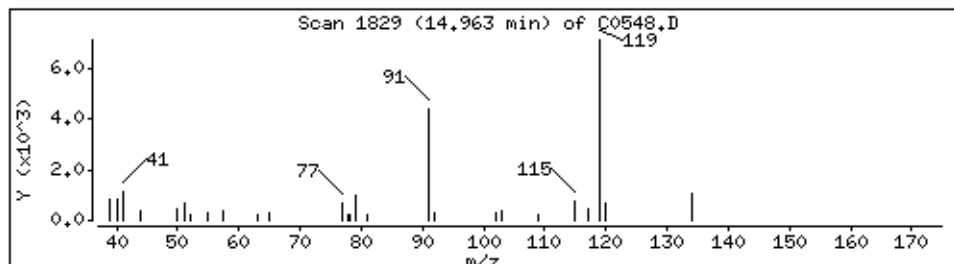
80 N-Propylbenzene

Concentration: 2.4 ug/l



86 tert-Butylbenzene

Concentration: 0.66 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

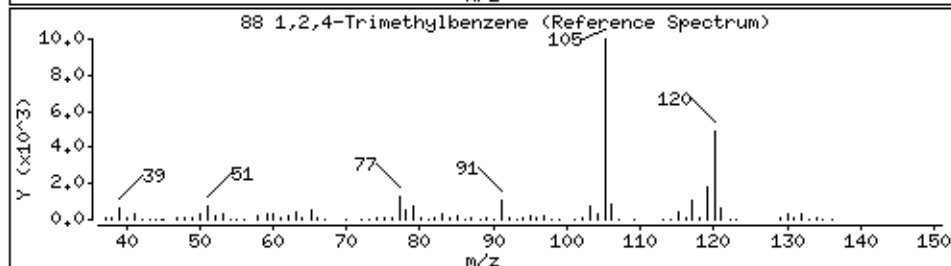
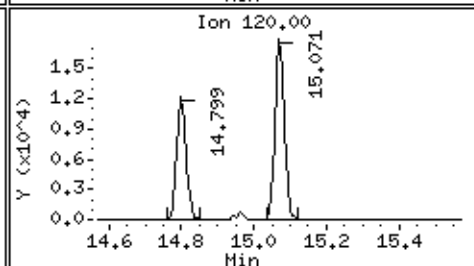
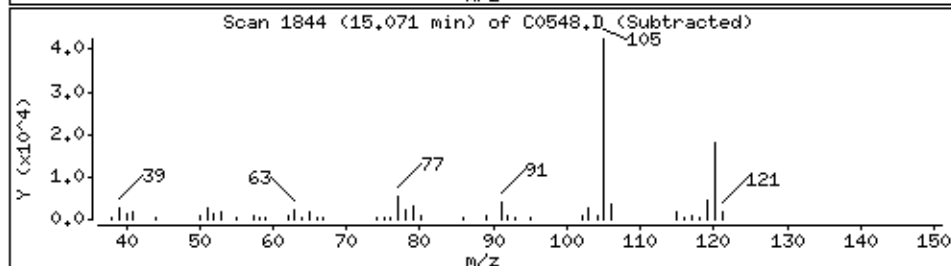
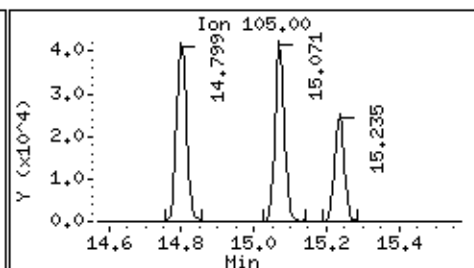
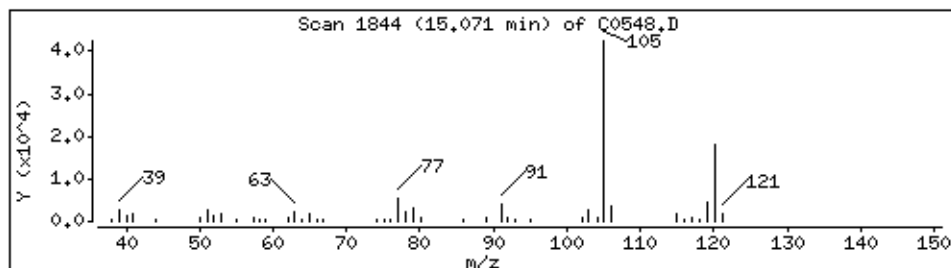
Client ID: AOC9-MW14LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-12

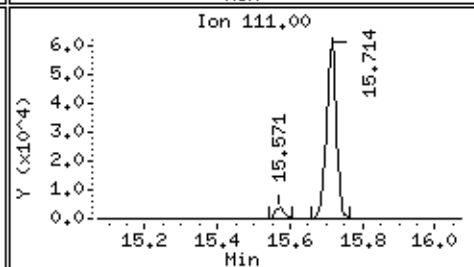
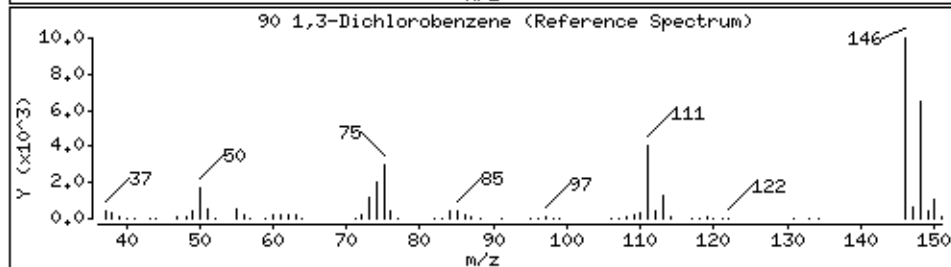
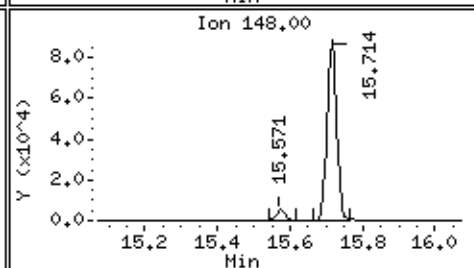
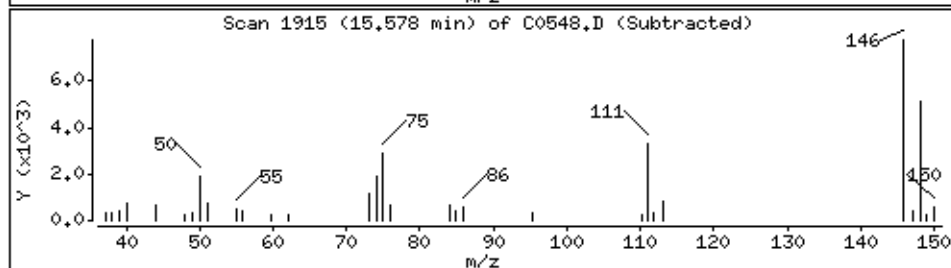
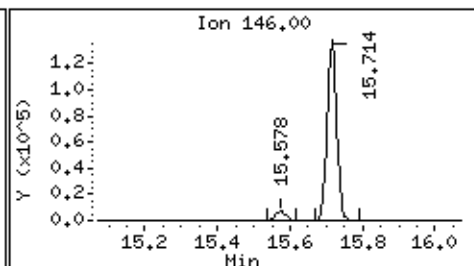
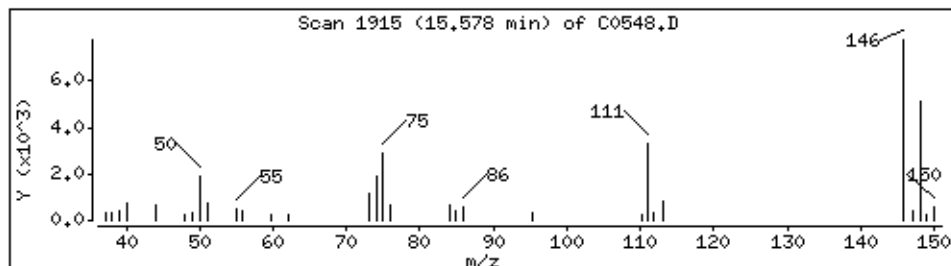
88 1,2,4-Trimethylbenzene

Concentration: 3,6 ug/l



90 1,3-Dichlorobenzene

Concentration: 1,4 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

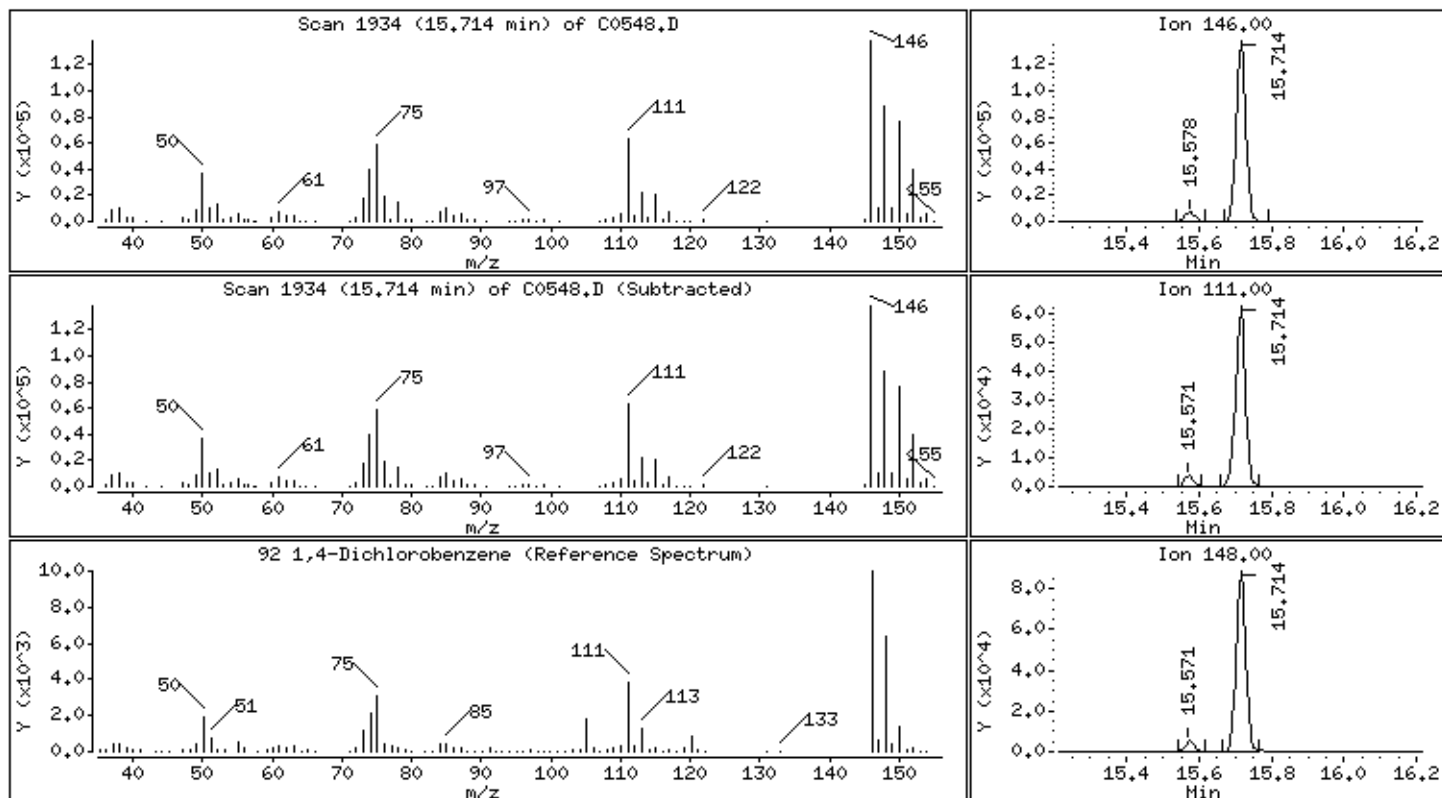
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Sample Info: SG2375-12

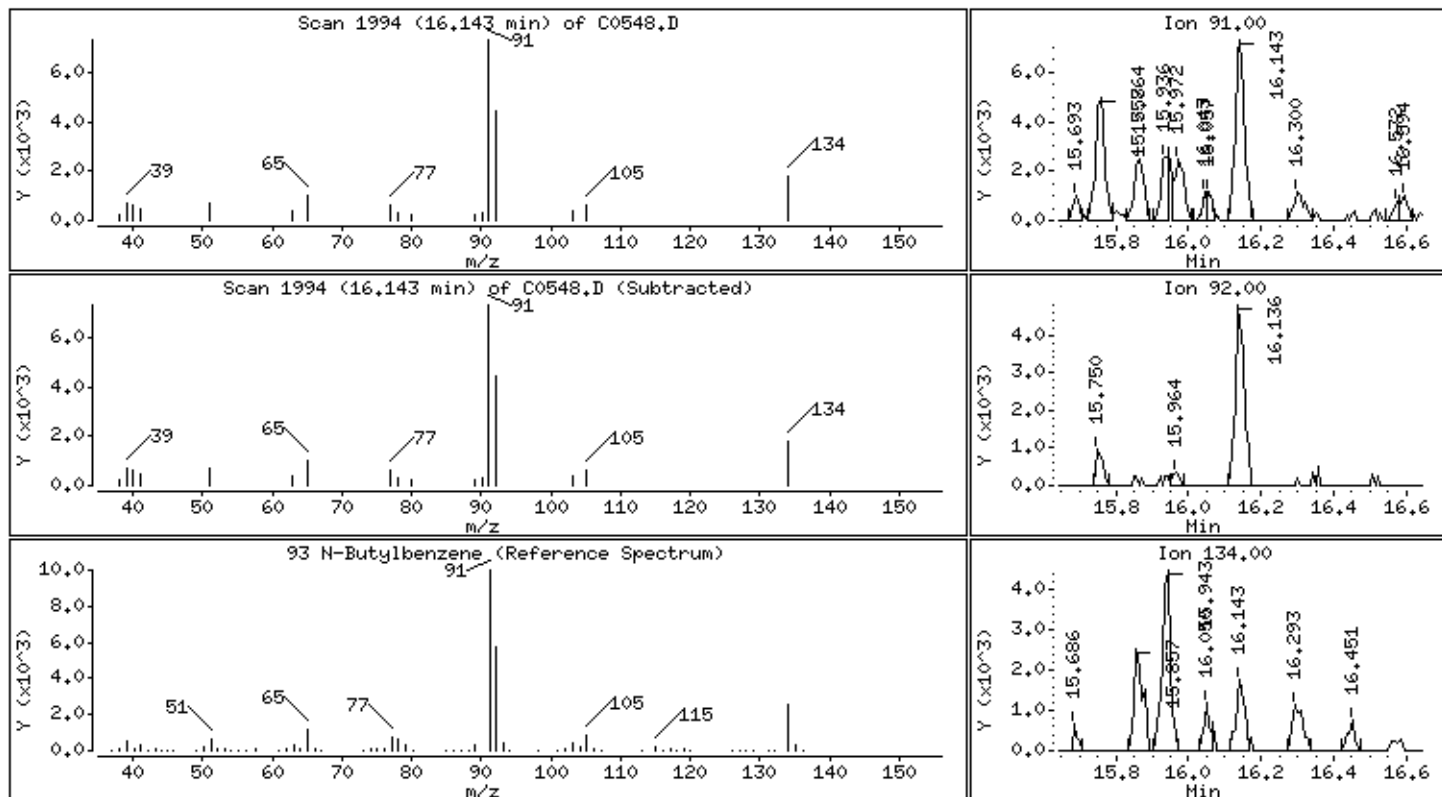
92 1,4-Dichlorobenzene

Concentration: 21.5 ug/l



93 N-Butylbenzene

Concentration: 1.4 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

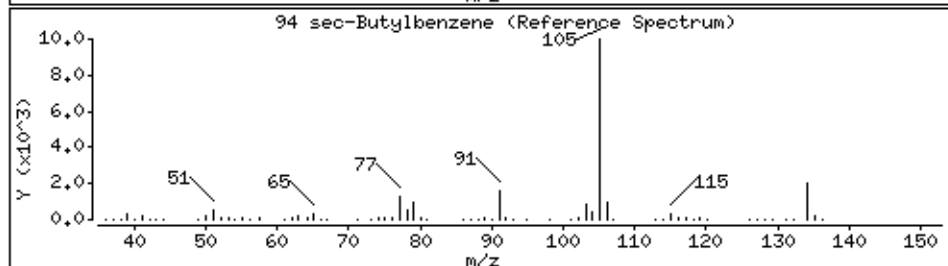
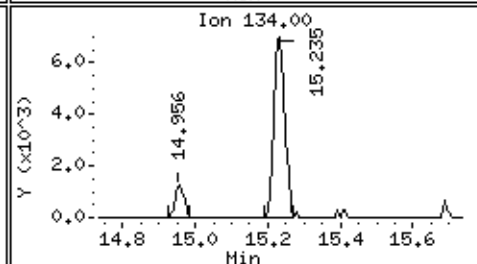
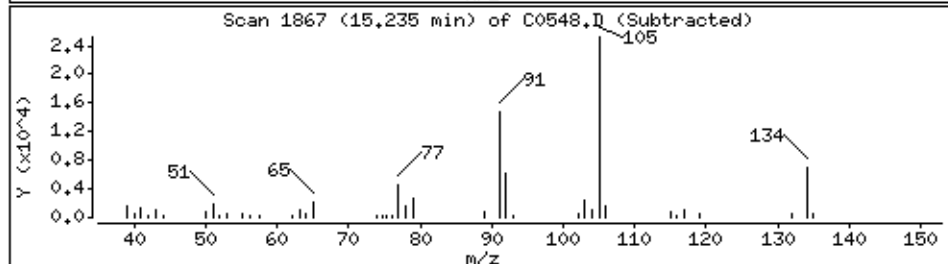
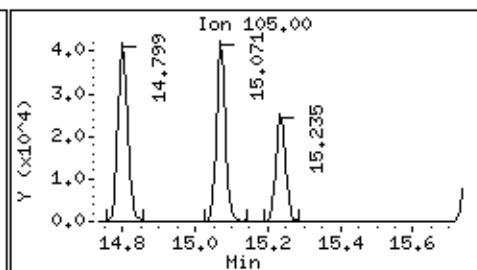
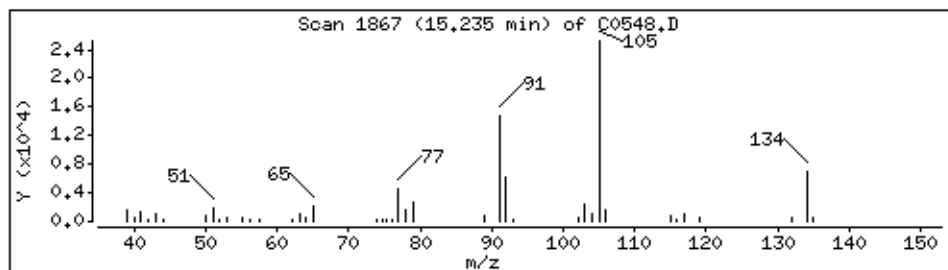
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Instrument: gcms-c.i

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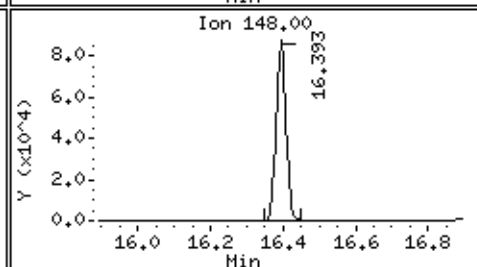
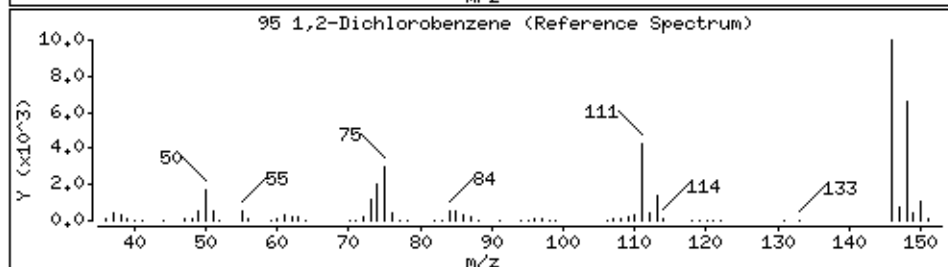
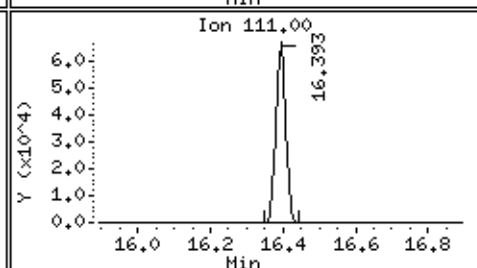
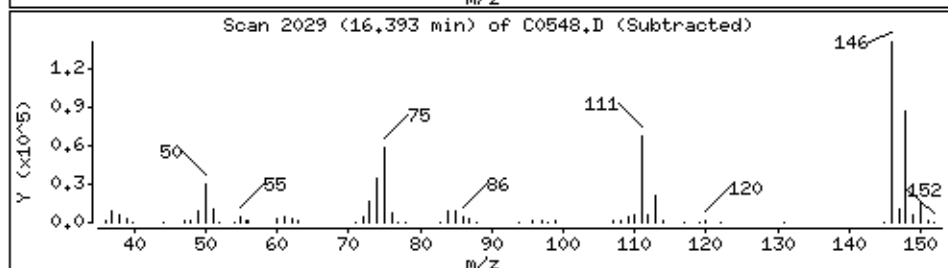
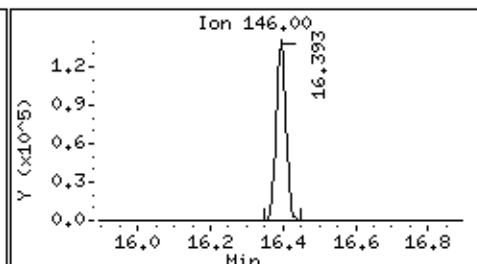
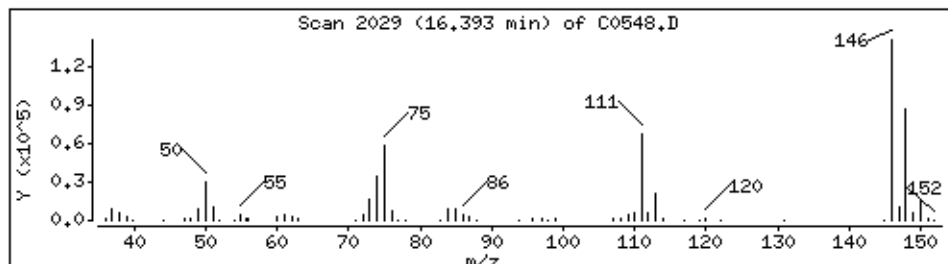
94 sec-Butylbenzene

Concentration: 1.8 ug/l



95 1,2-Dichlorobenzene

Concentration: 26.8 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0548.D

Date : 19-APR-2013 16:59

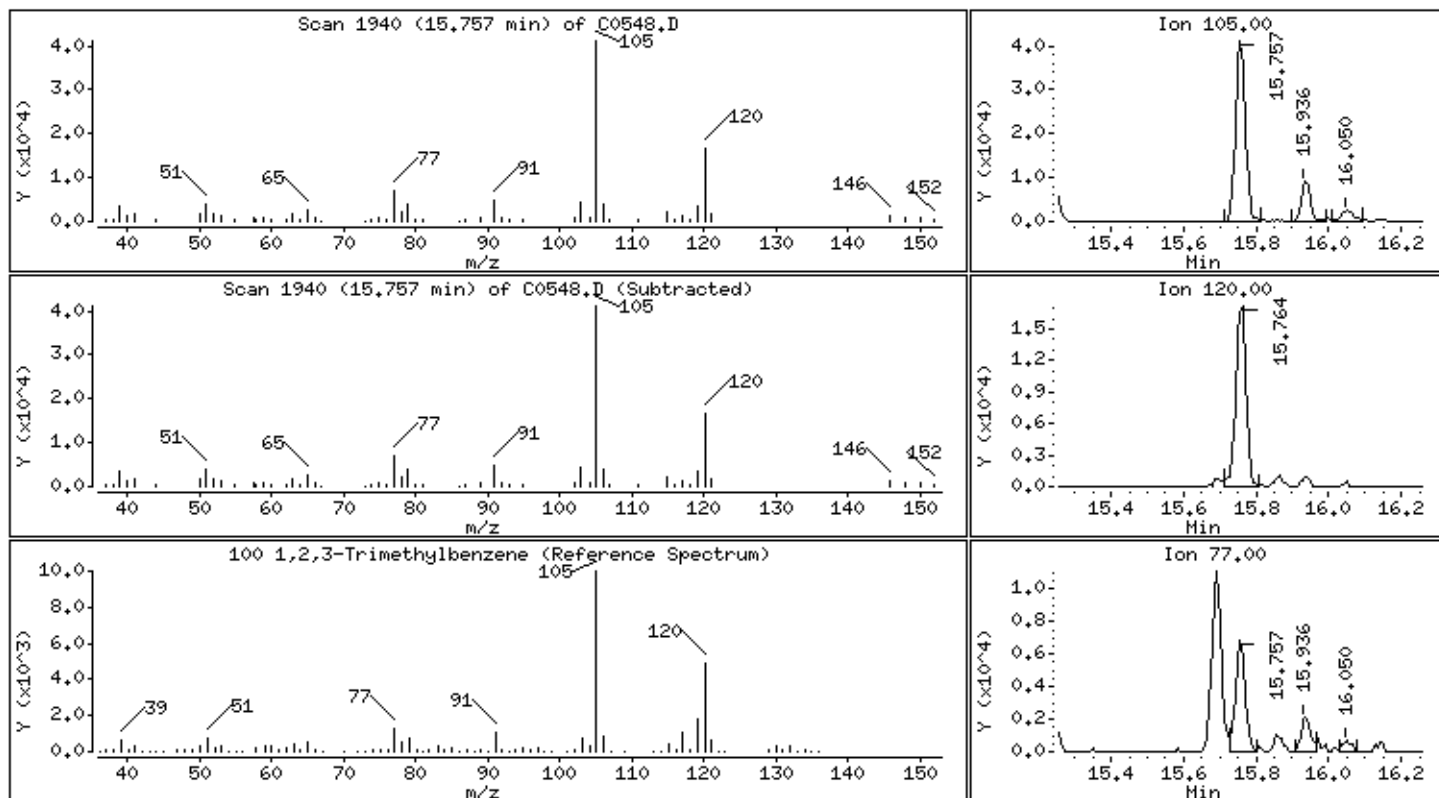
Client ID: AOC9-MM14LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-12

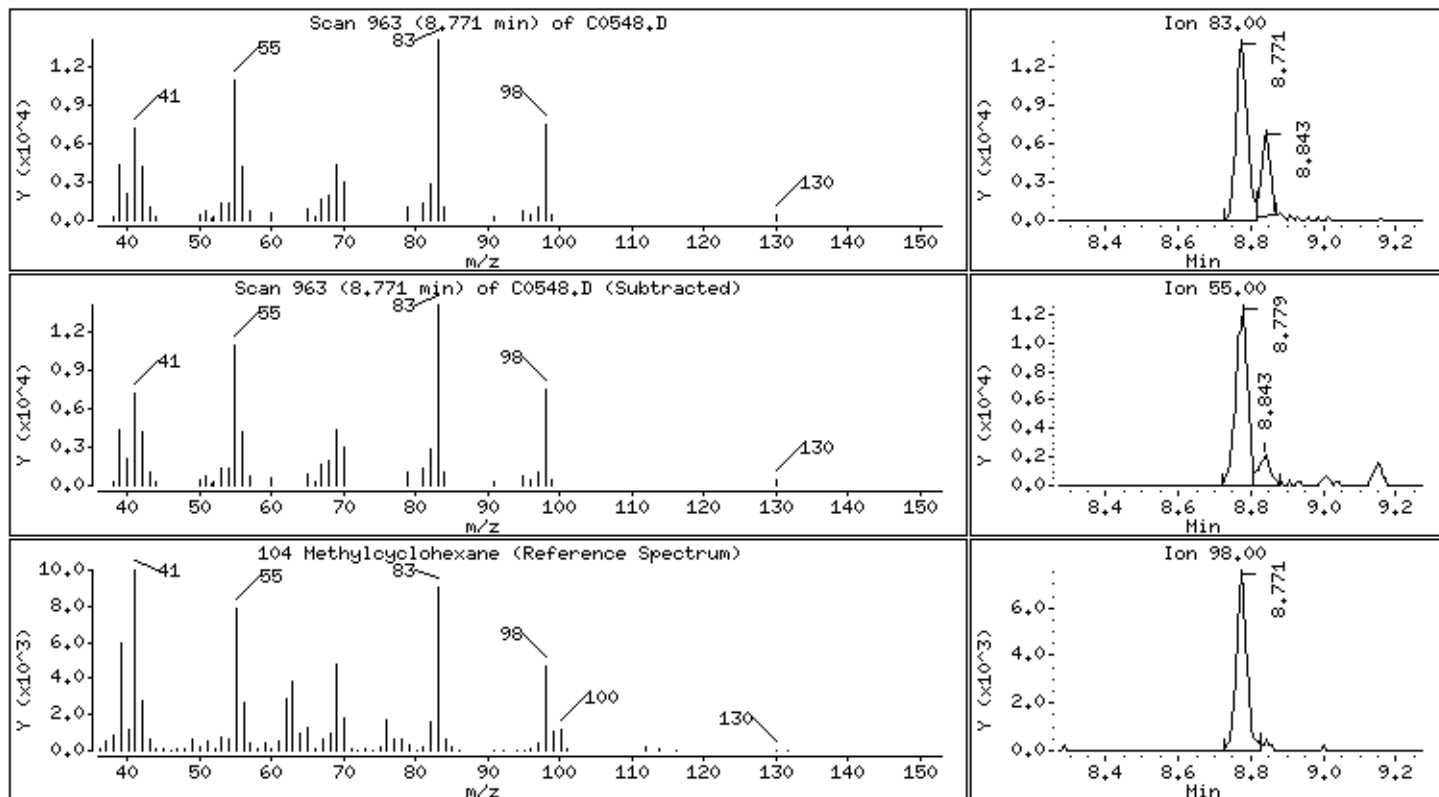
100 1,2,3-Trimethylbenzene

Concentration: 4.0 ug/l



104 Methylcyclohexane

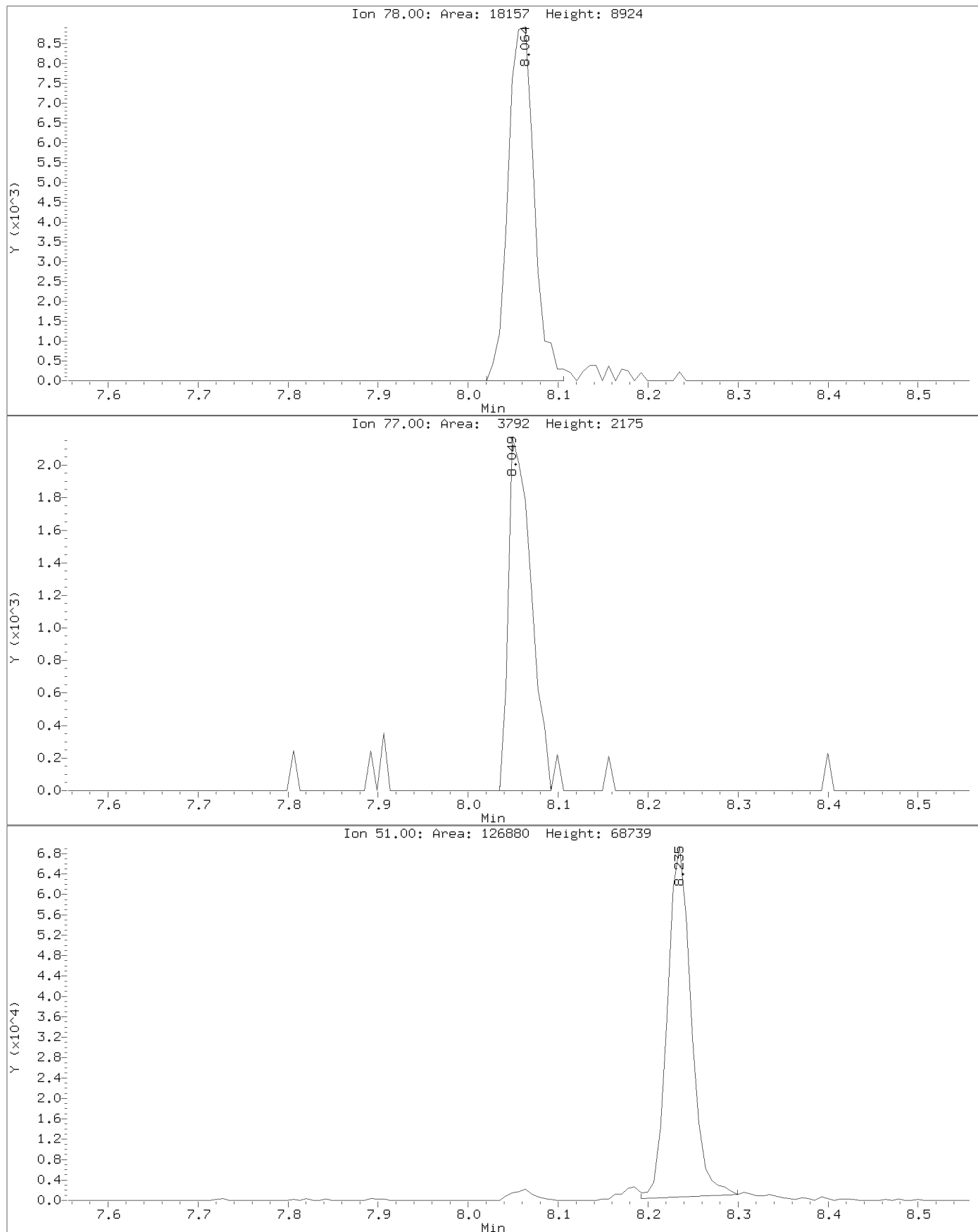
Concentration: 3.7 ug/l



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Injection Date: 19-APR-2013 16:59
Instrument: gcms-c.i
Client Sample ID: AOC9-MW14LTM040913

BEFORE MANUAL INTEGRATION

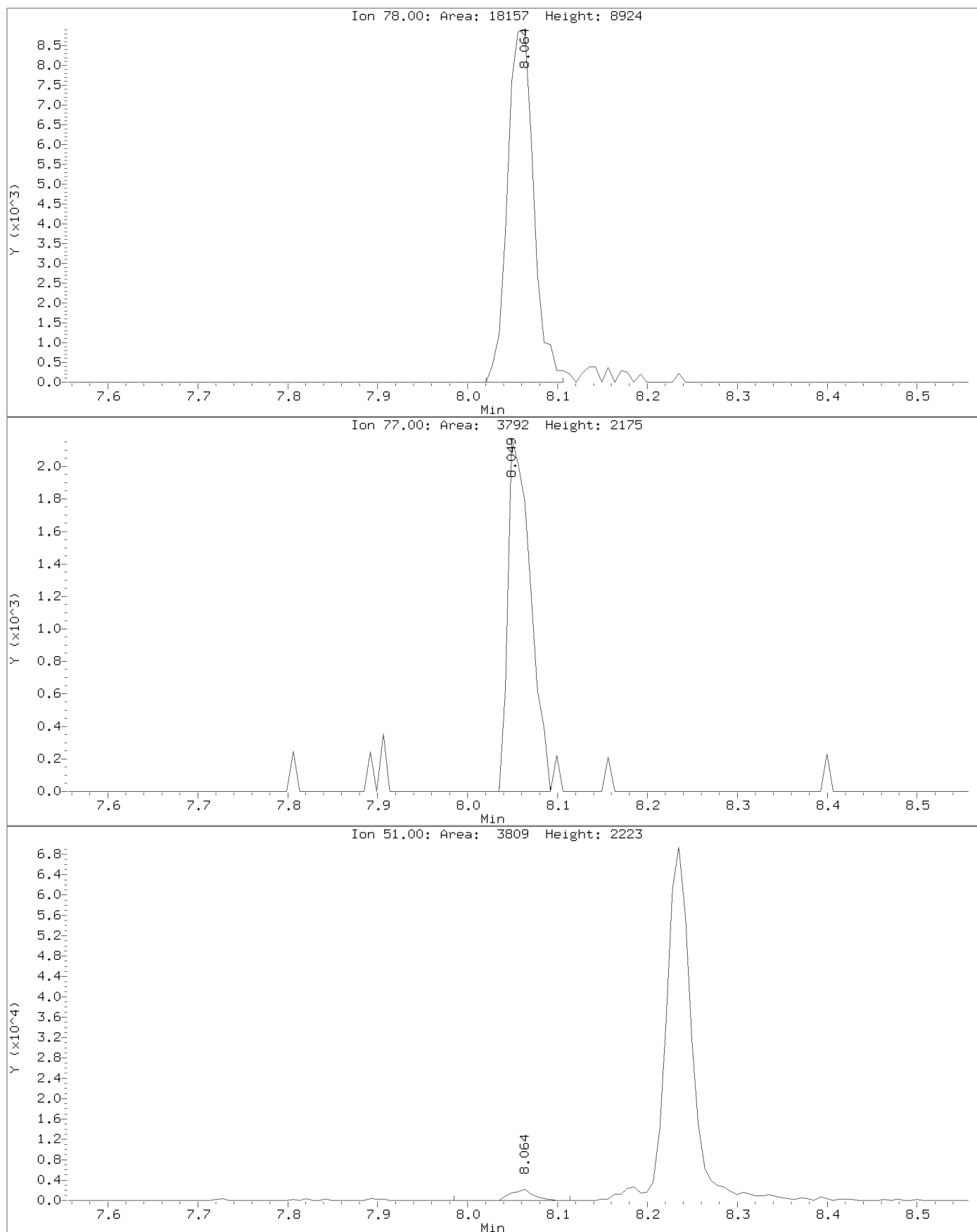
Compound: Benzene
CAS Number: 71-43-2



Data File: \\target_server\gg\chem\gcms-c.i\0041913.b\00548.D
Injection Date: 19-APR-2013 16:59
Instrument: gcms-c.i
Client Sample ID: AOC9-MW14LTM040913

AFTER MANUAL INTEGRATION

Compound: Benzene
CAS Number: 71-43-2



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12DL
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0565.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	JL	1.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	J	1.7	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene	U	5.0	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	J	3.3	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-12DL
Client ID: AOC9-MW14LTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0565.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		240	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	J	1.3	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	J	2.6	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	J	1.4	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		19	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		25	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	J	2.8	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene		5.4	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene		6.1	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	J	1.6	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		97.8	%					
Toluene-d8		98.0	%					
P-Bromofluorobenzene		96.6	%					
Dibromofluoromethane		89.8	%					

Data File: \\target_server\gg\chem\gcms-c.i\C042213.b\C0565.D
Report Date: 23-Apr-2013 11:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C042213.b\C0565.D
Lab Smp Id: SG2375-12DL Client Smp ID: AOC9-MW14LTM040913
Inj Date : 22-APR-2013 13:59 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-12DL
Misc Info : WG123007, WG122628-4
Comment : SW846 5030
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Meth Date : 23-Apr-2013 11:14 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 10
Dil Factor: 5.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

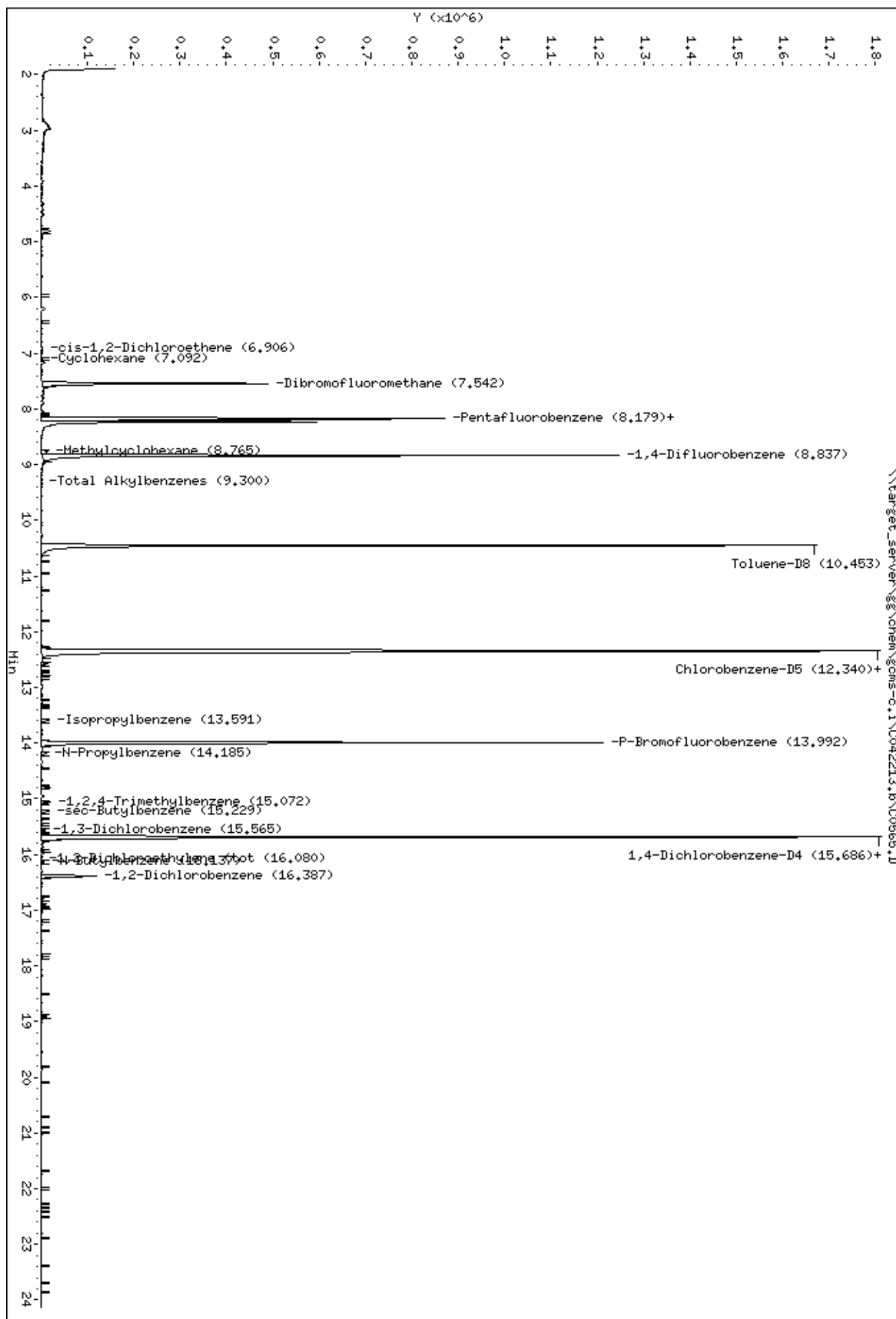
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.906	6.913	(0.844)	2060	0.30726	1.5(a)	
M 30 1,2-Dichloroethylene (total)	96				2060	0.30726	1.5(a)	
\$ 37 Dibromofluoromethane	113	7.542	7.550	(0.922)	300657	44.9145	44.9	
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	558602	50.0000		
43 Cyclohexane	56	7.170	7.178	(0.877)	3494	0.34984	1.7(a)	
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236	(1.006)	427671	48.9269	48.9	
* 49 1,4-Difluorobenzene	114	8.836	8.844	(1.000)	937851	50.0000		
\$ 55 Toluene-D8	98	10.452	10.453	(1.183)	1007896	49.0257	49.0	
* 66 Chlorobenzene-D5	117	12.333	12.340	(1.000)	918779	50.0000		
67 Chlorobenzene	112	12.361	12.362	(1.002)	684555	48.3061	242	
68 Ethylbenzene	106	12.390	12.398	(1.005)	2045	0.25403	1.3(a)	
75 Isopropylbenzene	105	13.591	13.592	(0.866)	12252	0.51723	2.6(a)	
\$ 76 P-Bromofluorobenzene	95	13.991	13.999	(1.583)	446291	48.3102	48.3	11:32 am, Apr 23, 2013
80 N-Propylbenzene	91	14.184	14.192	(0.904)	9990	1.21720	6.1	
88 1,2,4-Trimethylbenzene	105	15.071	15.072	(0.961)	12516	0.55315	2.8(a)	
90 1,3-Dichlorobenzene	146	15.564	15.572	(0.992)	3335	0.29188	1.4(aM)	M10
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	495942	50.0000		
92 1,4-Dichlorobenzene	146	15.707	15.715	(1.001)	50157	3.87711	19.4	
93 N-Butylbenzene	91	16.144	16.143	(1.029)	3286	1.08857	5.4	
94 sec-Butylbenzene	105	15.228	15.236	(0.971)	8748	0.31392	1.6(a)	
95 1,2-Dichlorobenzene	146	16.387	16.393	(1.045)	52848	4.93048	24.6	
100 1,2,3-Trimethylbenzene	105	15.750	15.758	(1.004)	14952	0.71152	3.6(a)	
104 Methylcyclohexane	83	8.765	8.772	(1.072)	5833	0.65430	3.3(a)	
M 153 Total Alkylbenzenes	100				34540	3.17284	15.9(a)	

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 Client ID: AOC9-HM14LTH040913
 Sample Info: SG2375-12DL

Instrument: goms-c.i



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Date : 22-APR-2013 13:59

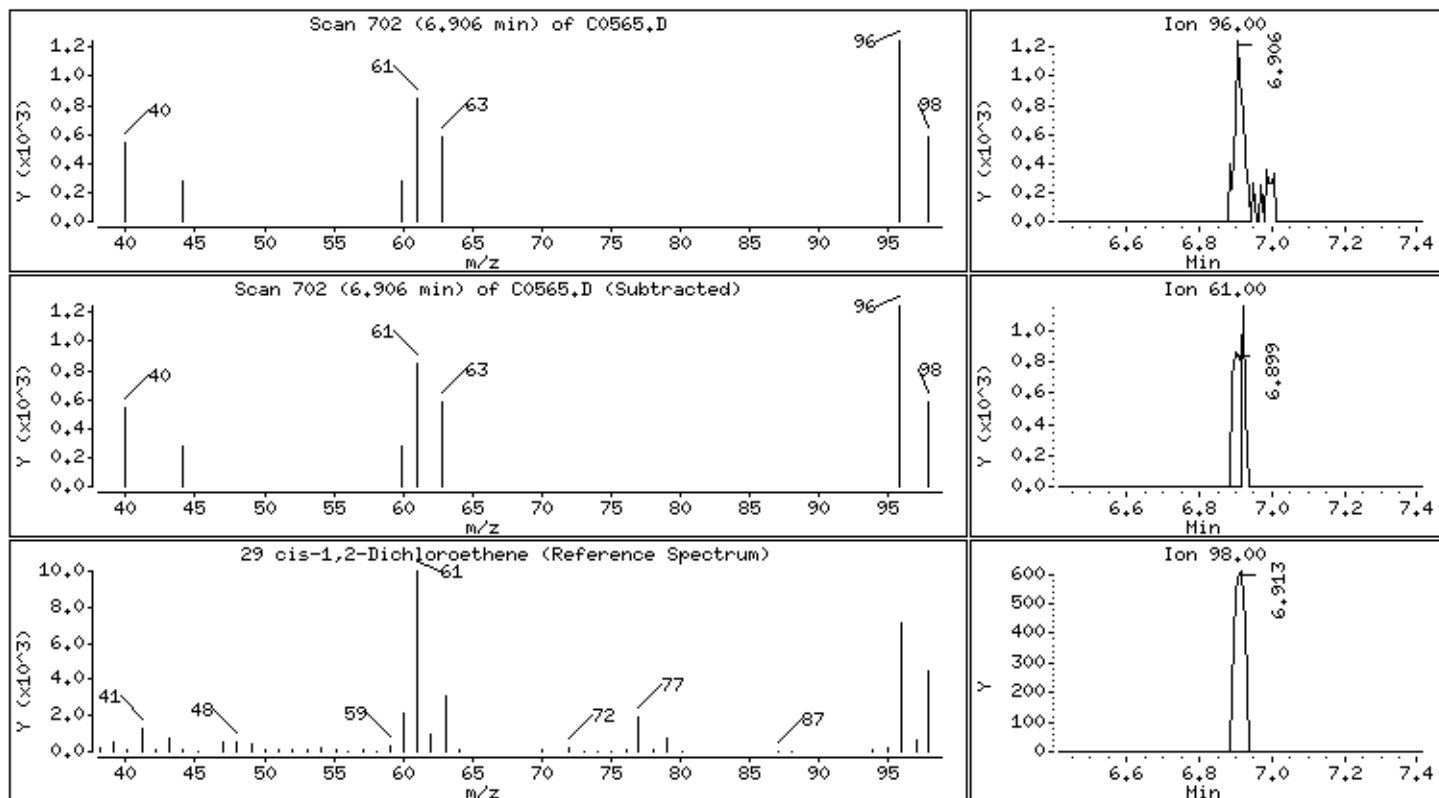
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Instrument: gcms-c.i

Sample Info: SG2375-12DL

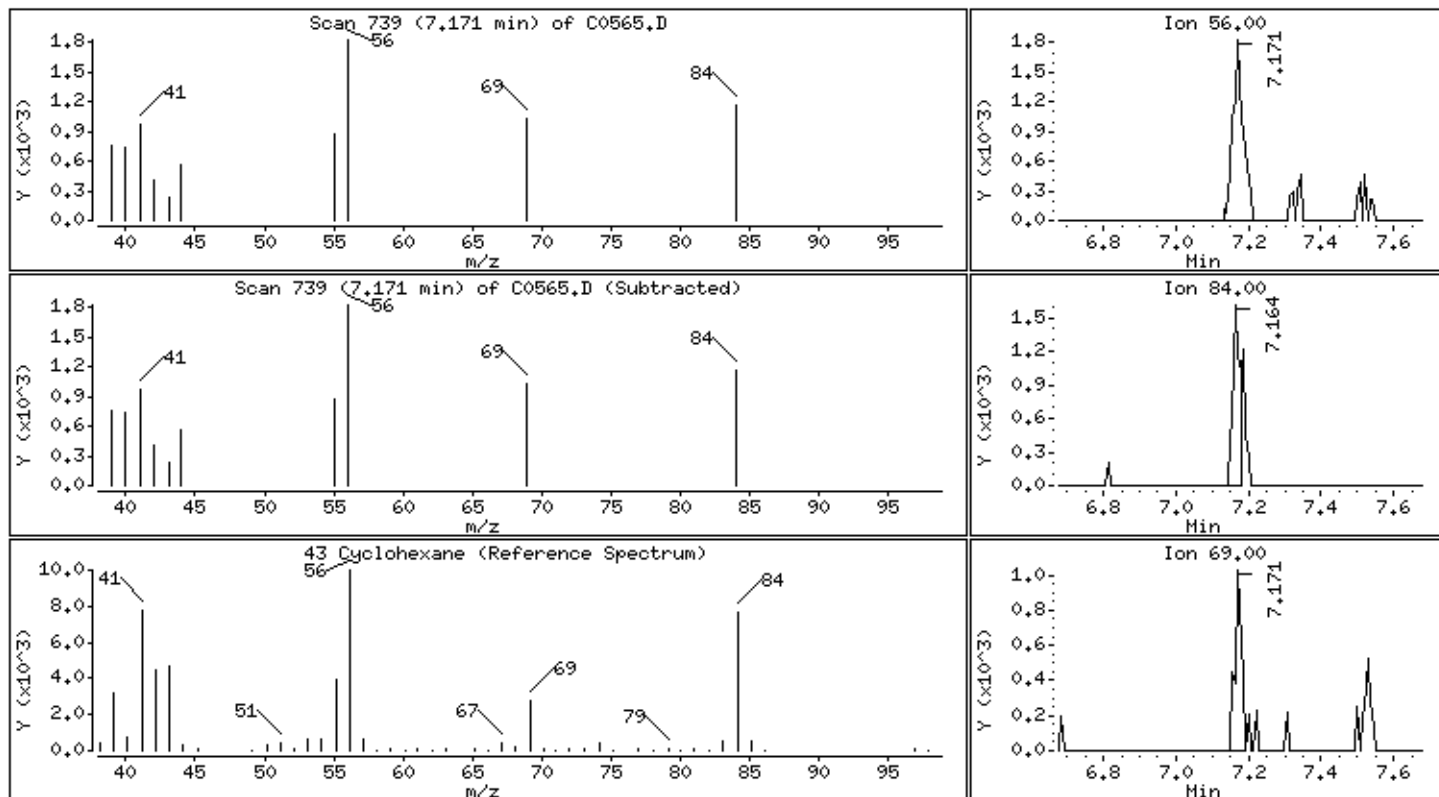
29 cis-1,2-Dichloroethene

Concentration: 1.5 ug/l



43 Cyclohexane

Concentration: 1.7 ug/l



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Date : 22-APR-2013 13:59

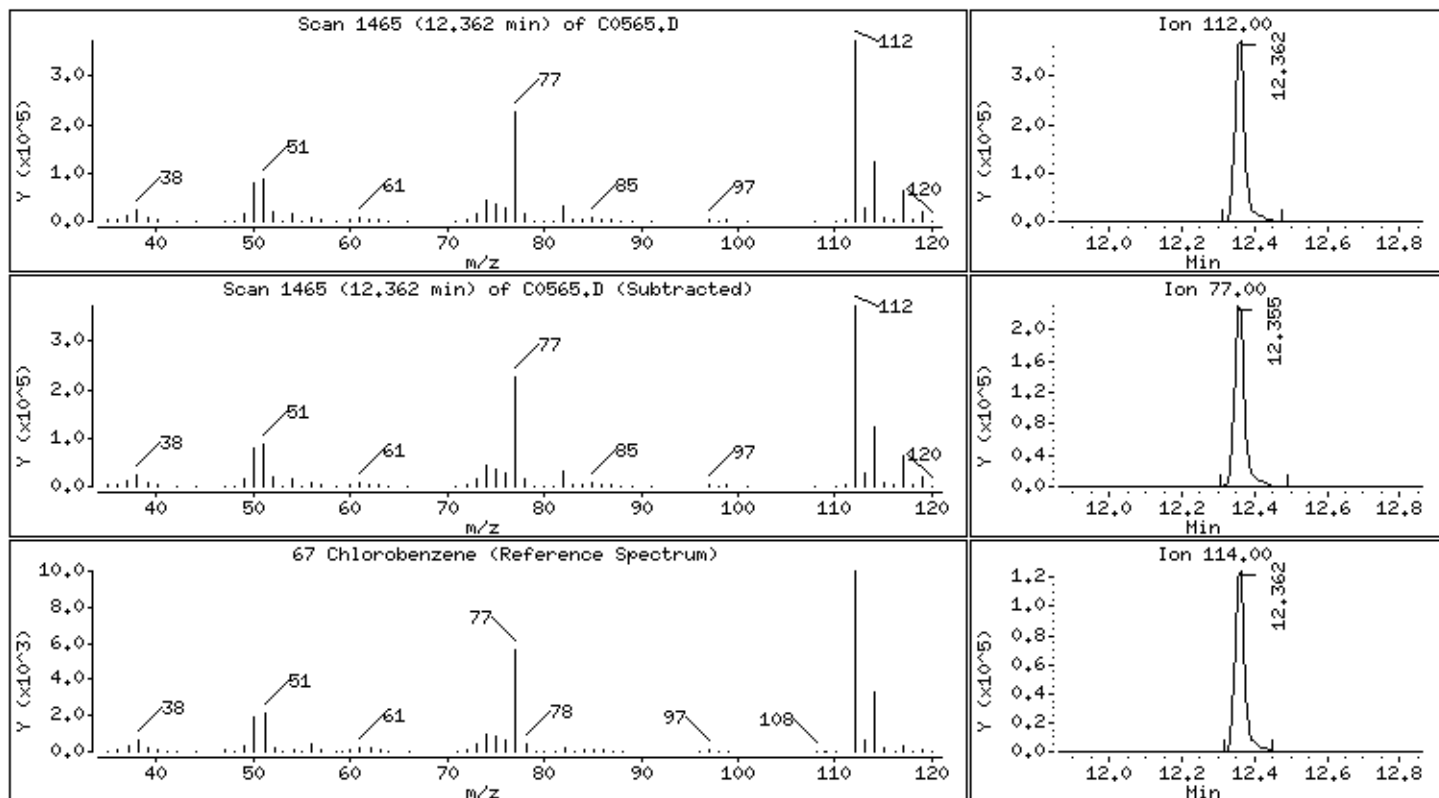
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Sample Info: SG2375-12DL

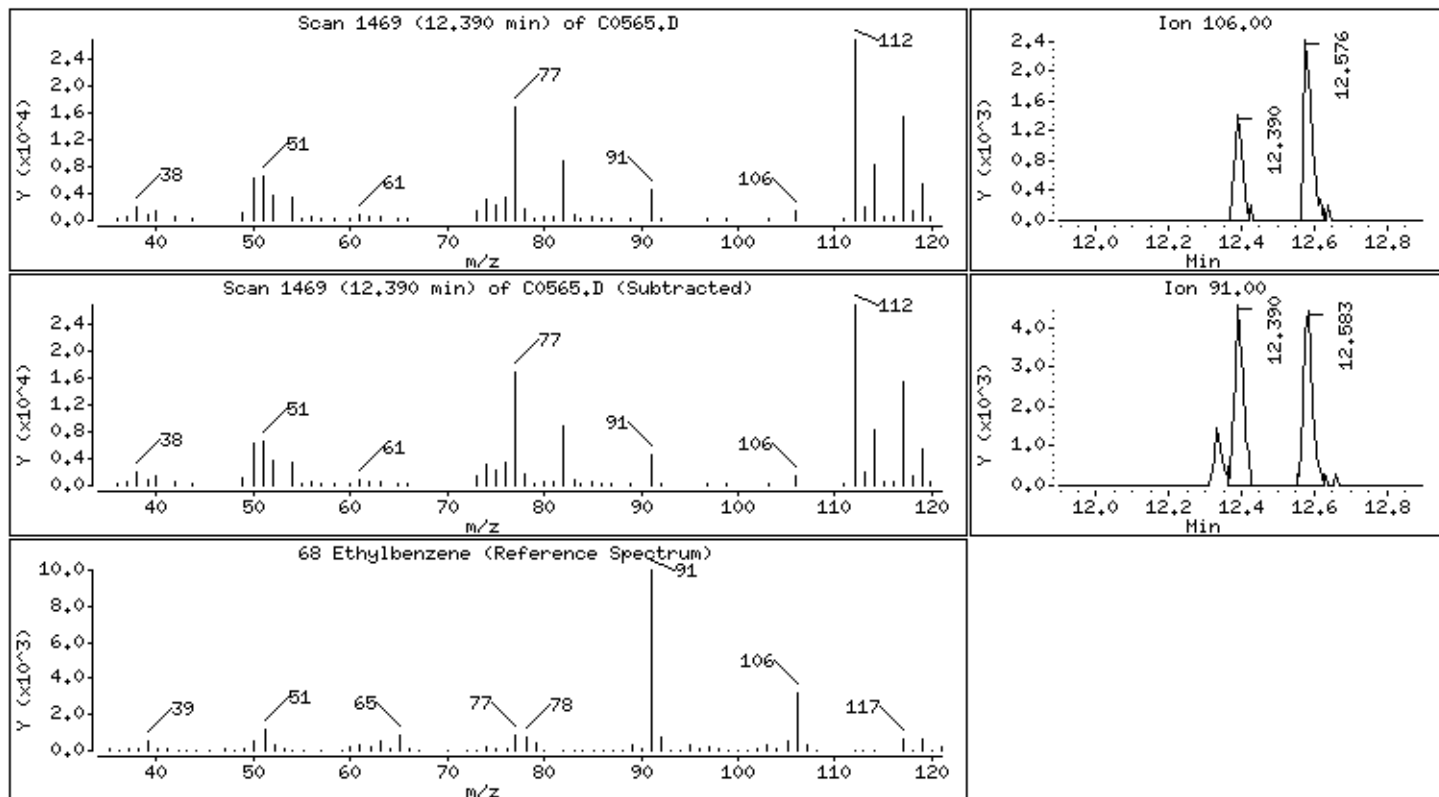
67 Chlorobenzene

Concentration: 242 ug/l



68 Ethylbenzene

Concentration: 1.3 ug/l



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Date : 22-APR-2013 13:59

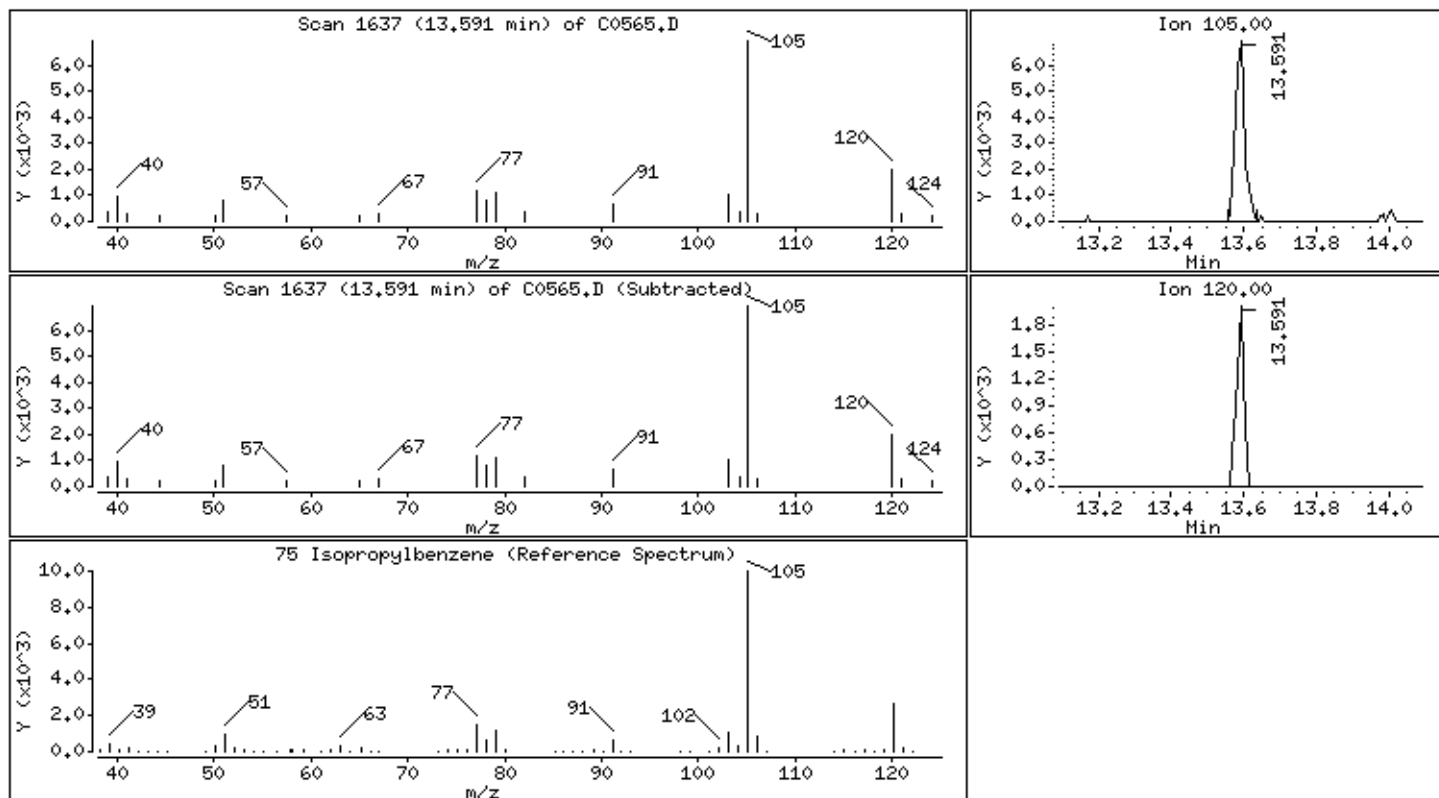
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Sample Info: SG2375-12DL

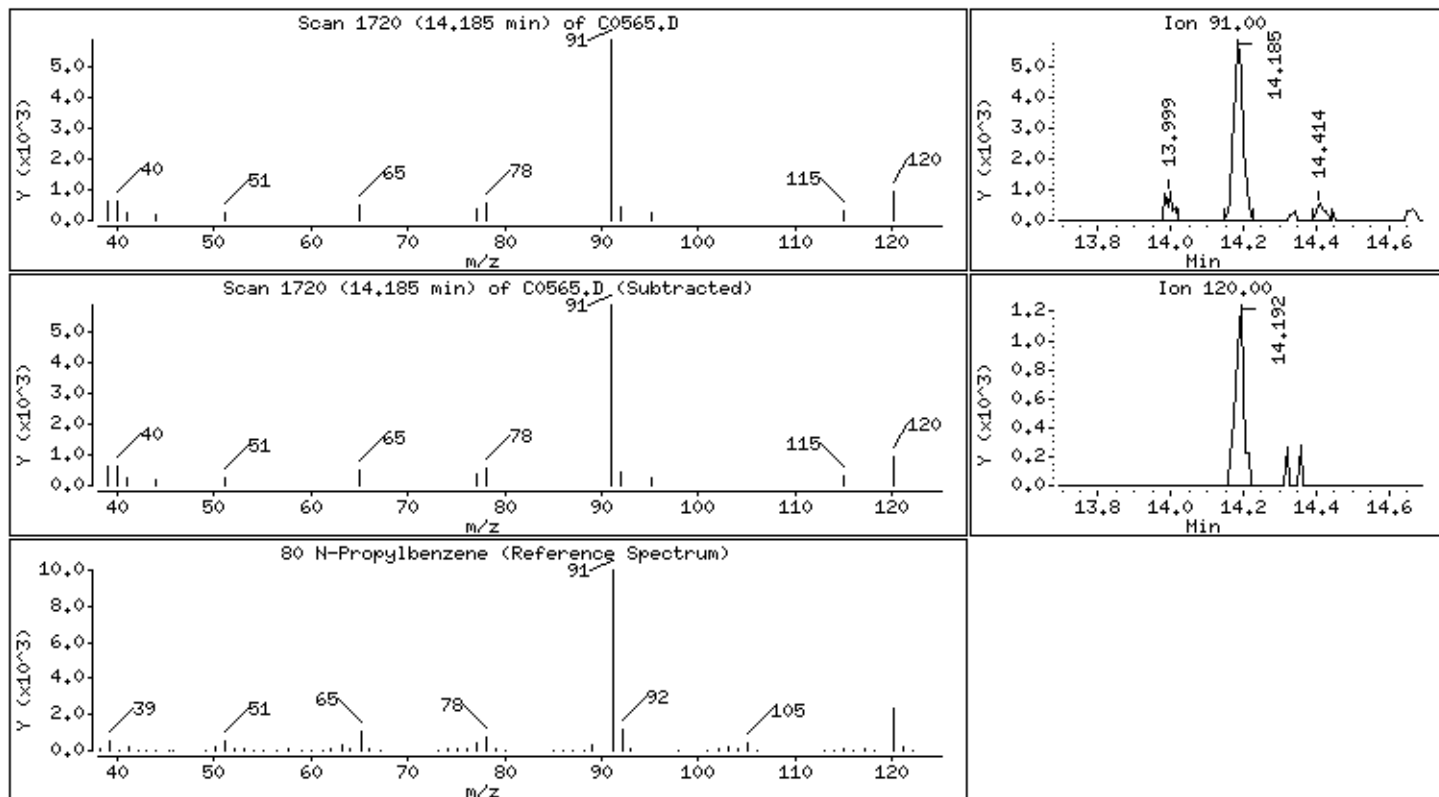
75 Isopropylbenzene

Concentration: 2.6 ug/l



80 N-Propylbenzene

Concentration: 6.1 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0565.D

Date : 22-APR-2013 13:59

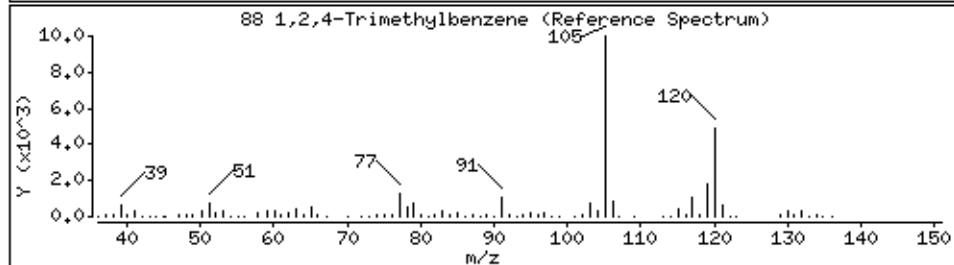
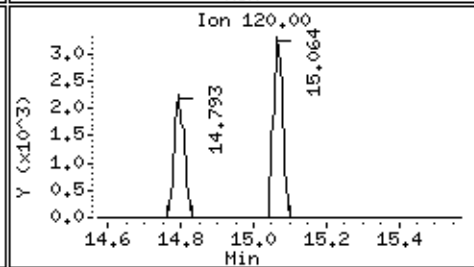
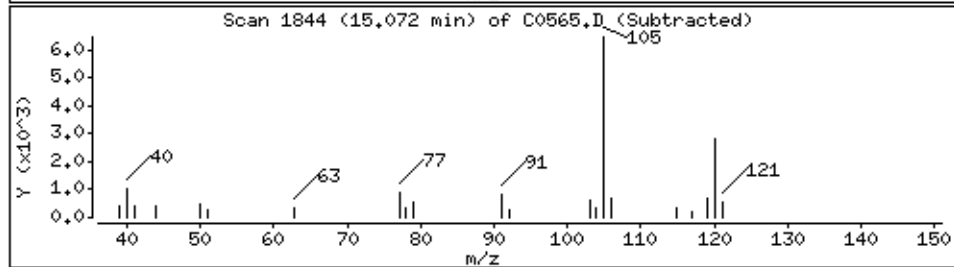
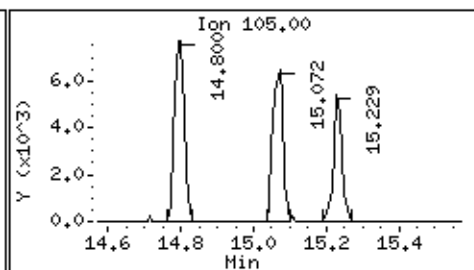
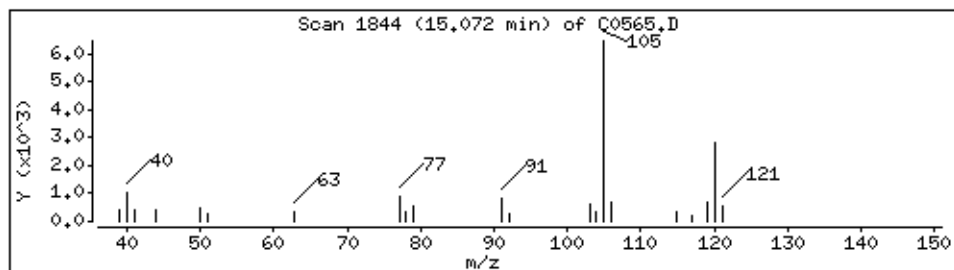
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Instrument: gcms-c.i

Sample Info: SG2375-12DL

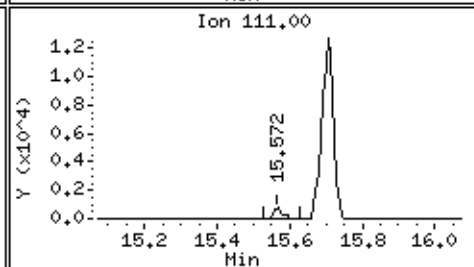
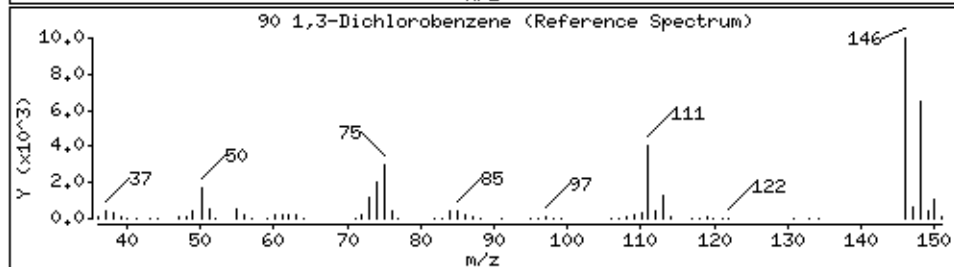
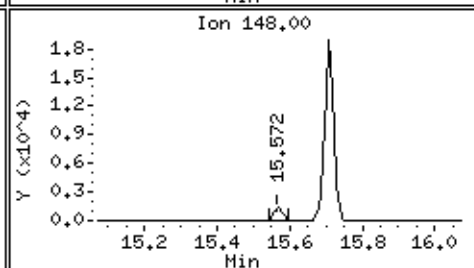
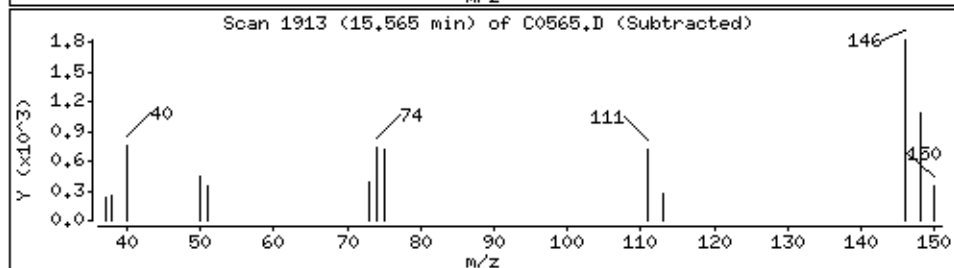
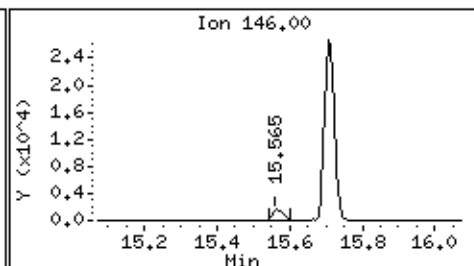
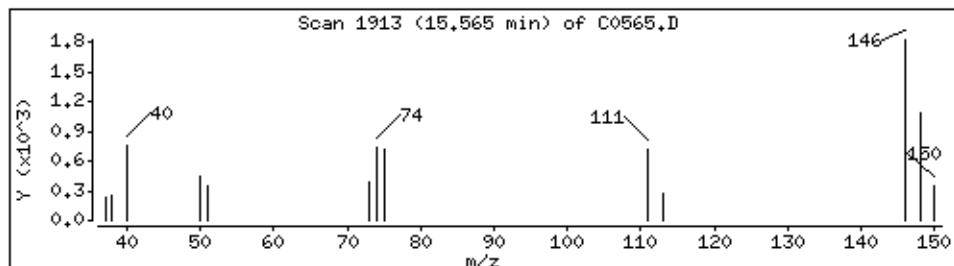
88 1,2,4-Trimethylbenzene

Concentration: 2.8 ug/l



90 1,3-Dichlorobenzene

Concentration: 1.4 ug/l



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Date : 22-APR-2013 13:59

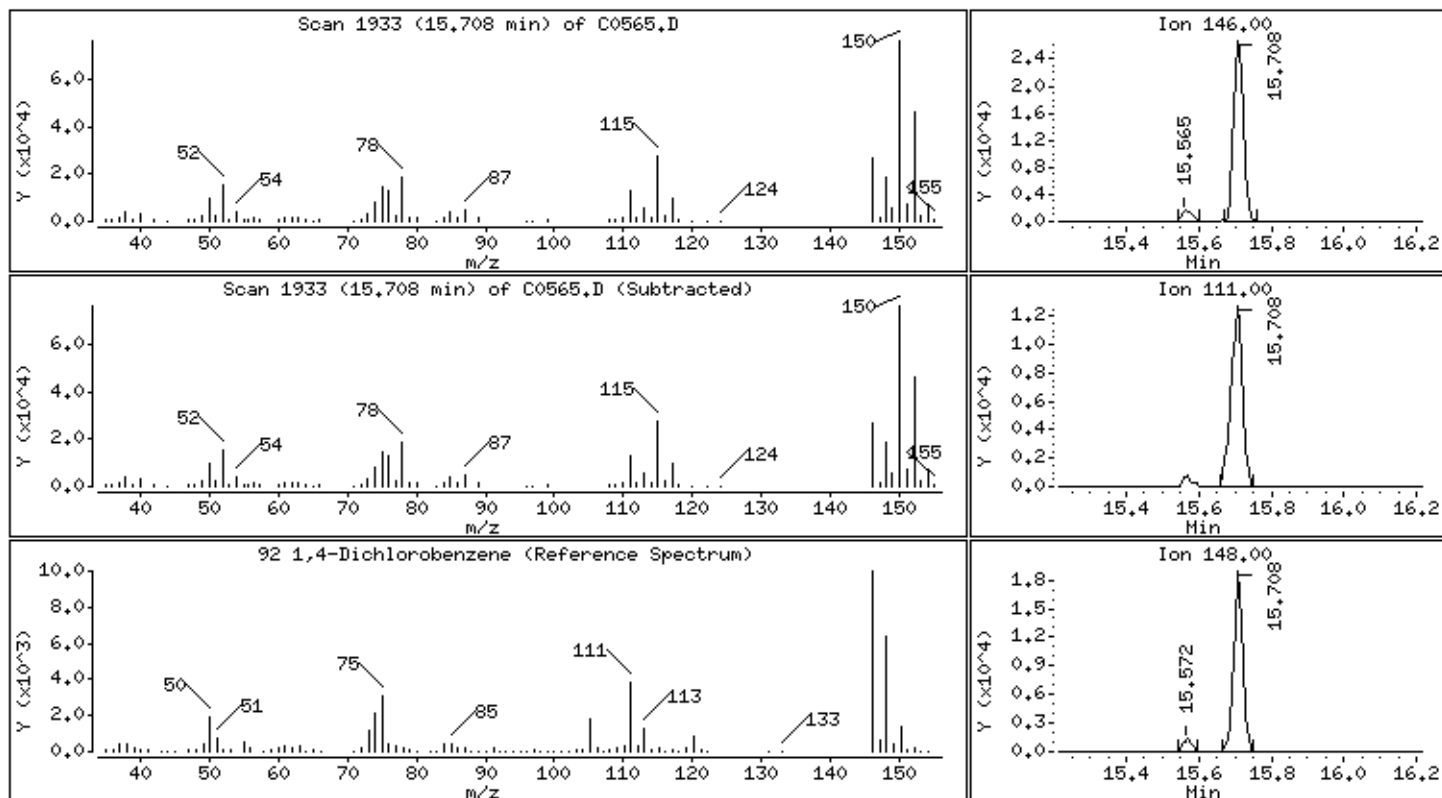
Client ID: AOC9-MW14LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-12DL

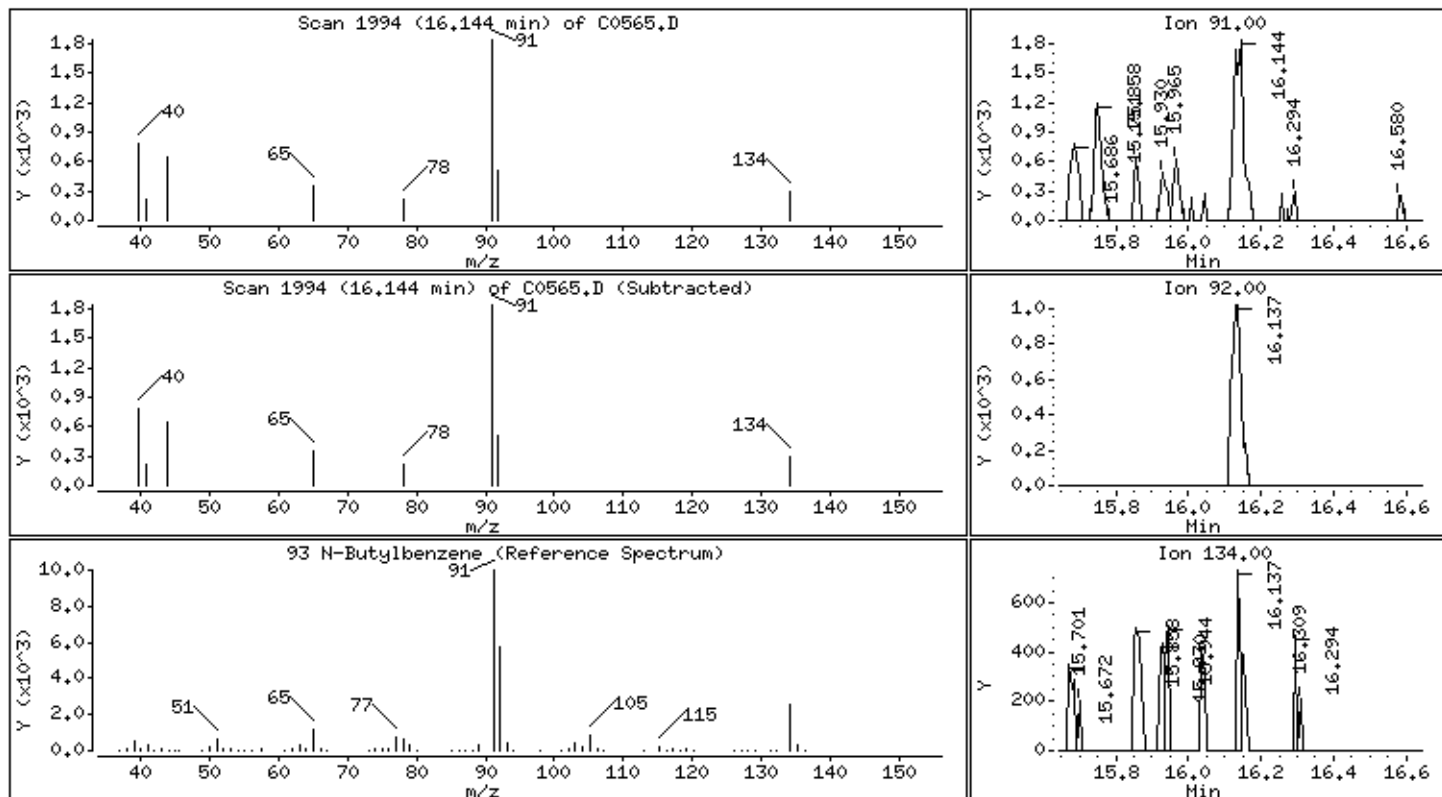
92 1,4-Dichlorobenzene

Concentration: 19.4 ug/l



93 N-Butylbenzene

Concentration: 5.4 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C042213,b\C0565.D

Date : 22-APR-2013 13:59

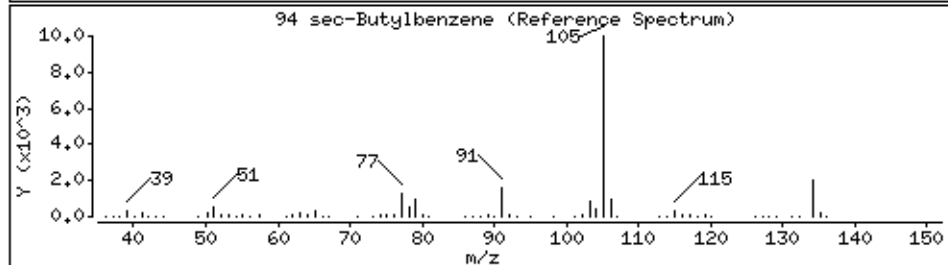
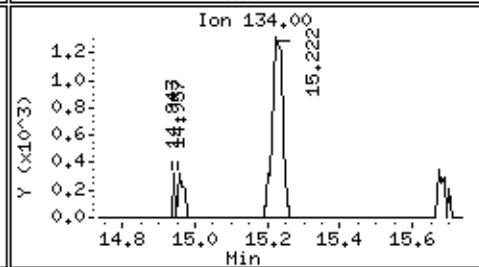
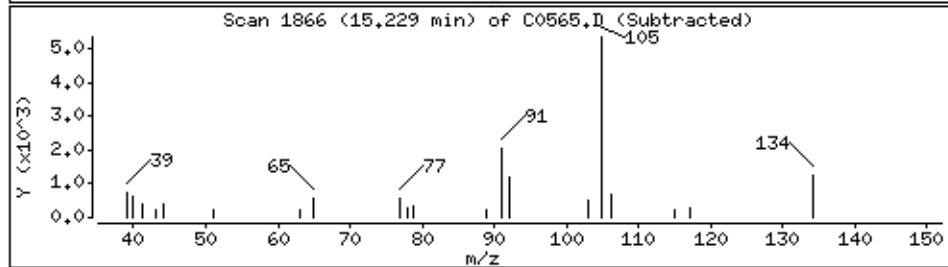
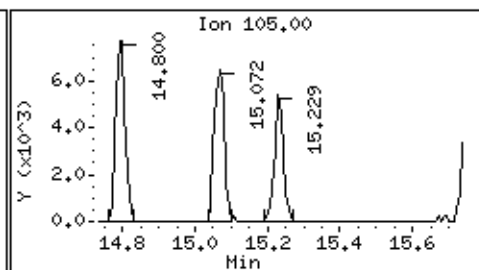
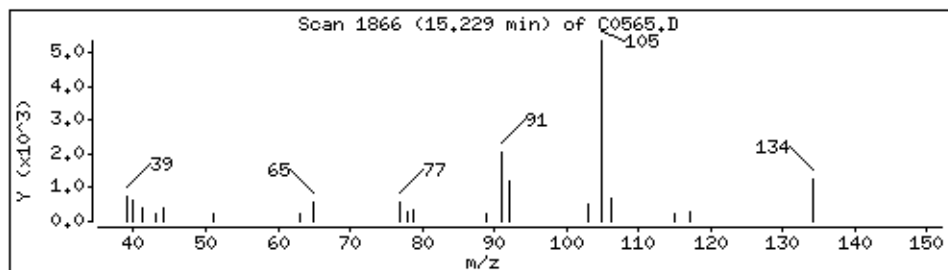
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Instrument: gms-c.i

Sample Info: SG2375-12DL

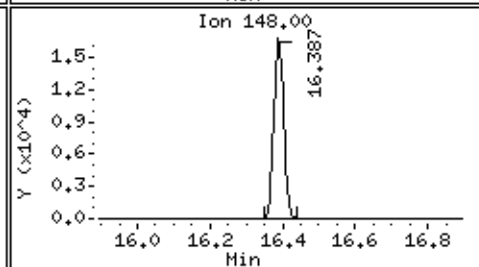
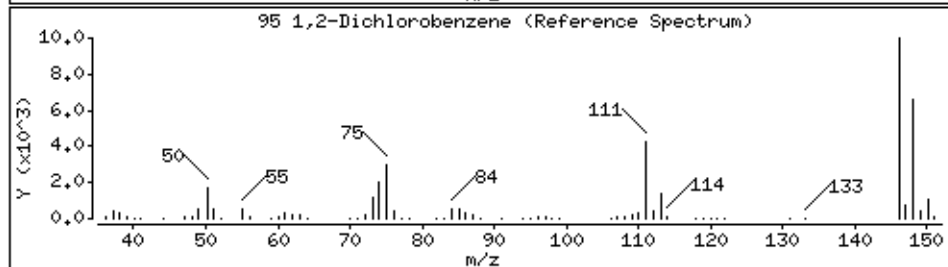
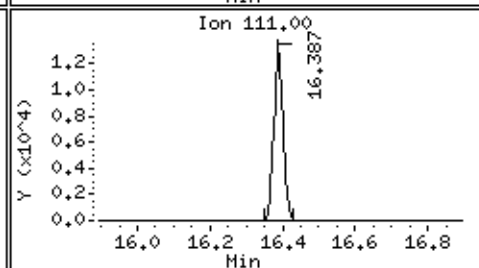
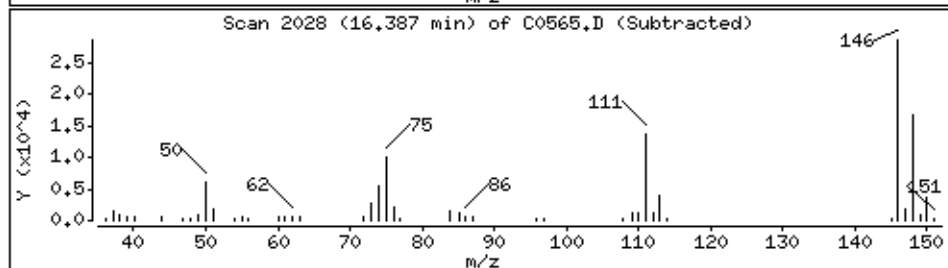
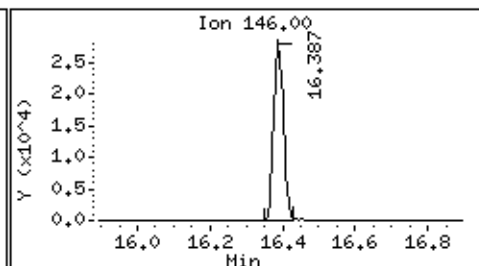
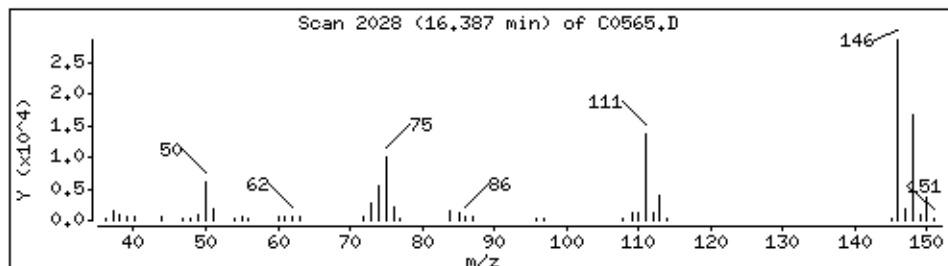
94 sec-Butylbenzene

Concentration: 1,6 ug/l



95 1,2-Dichlorobenzene

Concentration: 24,6 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0565.D

Date : 22-APR-2013 13:59

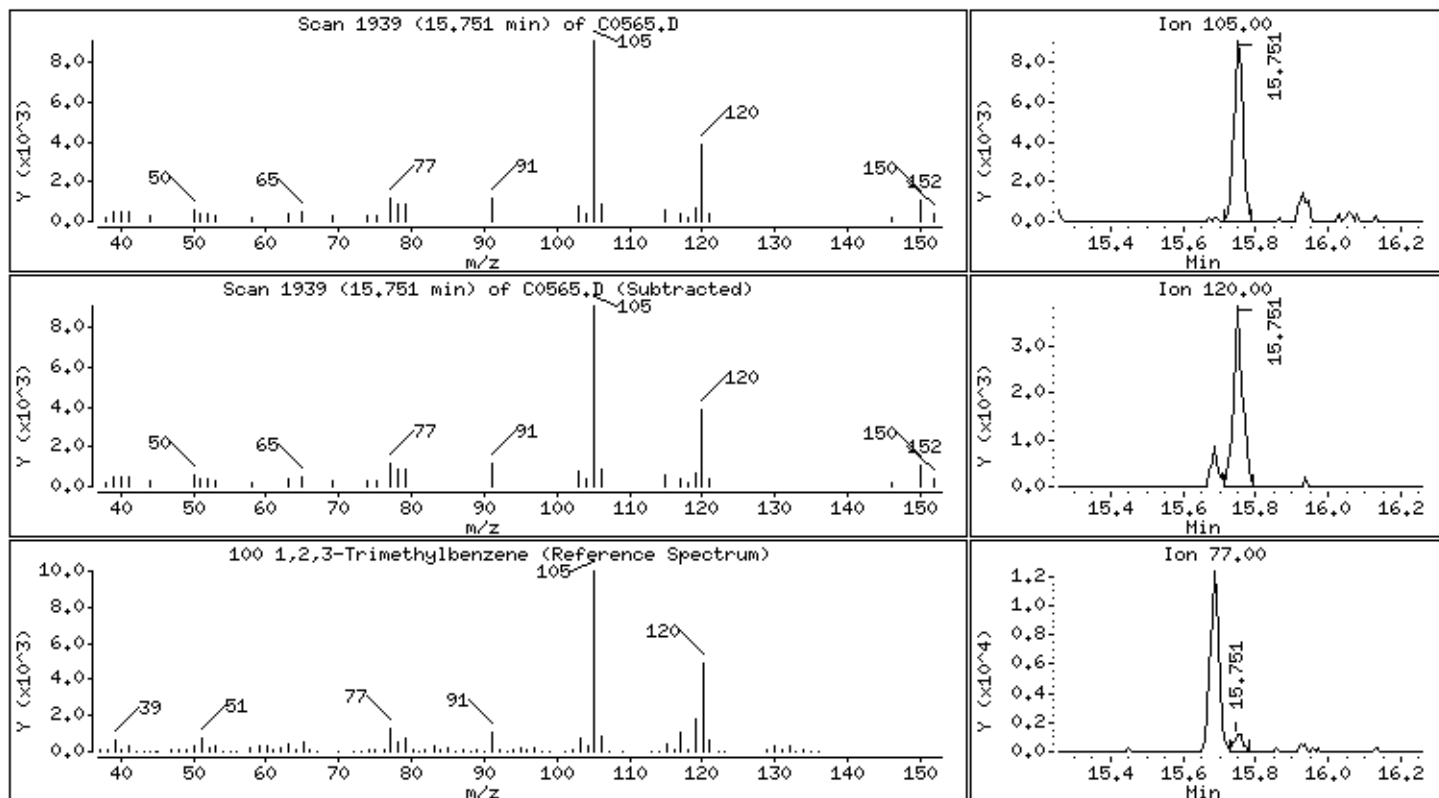
Client ID: AOC9-MW14LTH040913

Instrument: gcms-c.i

Sample Info: SG2375-12DL

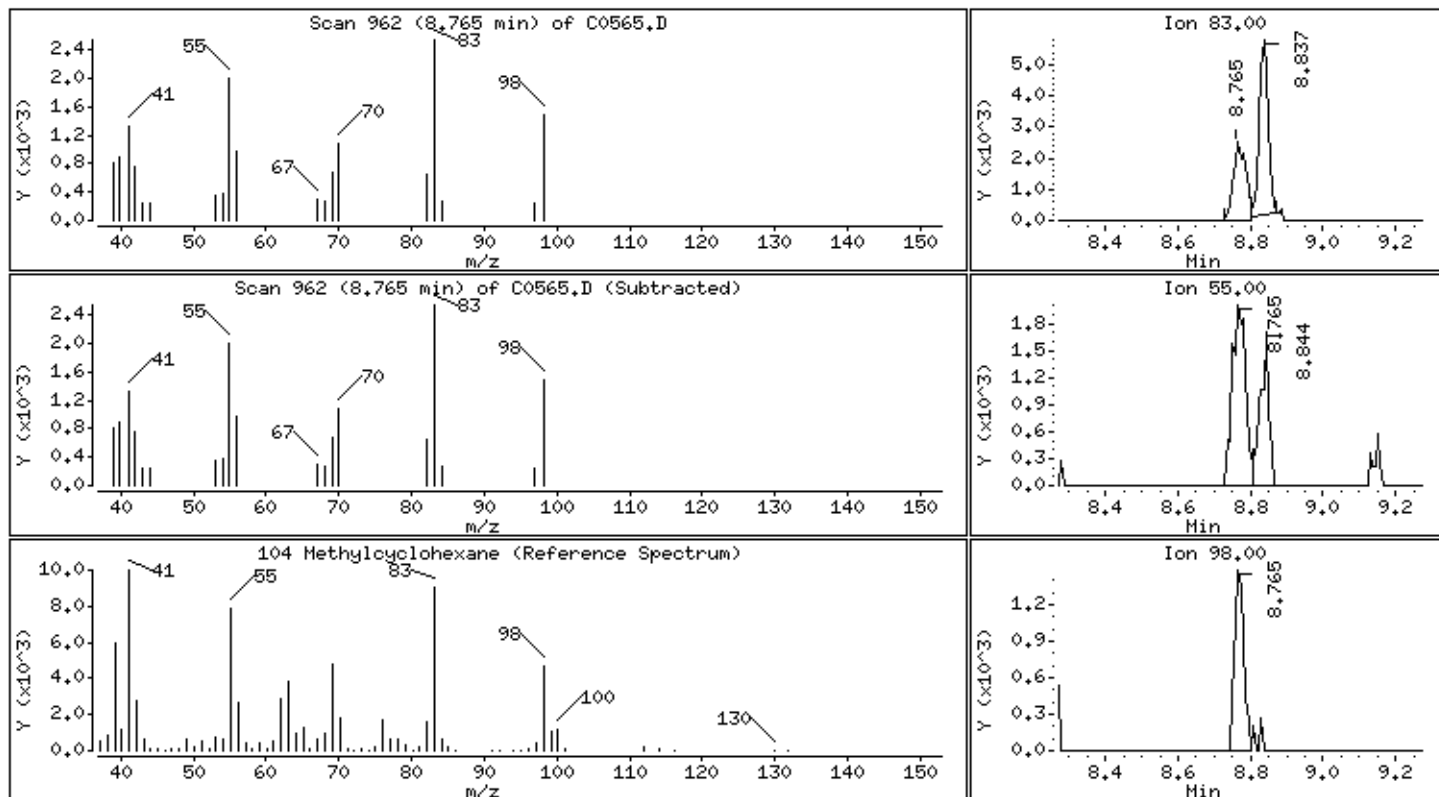
100 1,2,3-Trimethylbenzene

Concentration: 3,6 ug/l



104 Methylcyclohexane

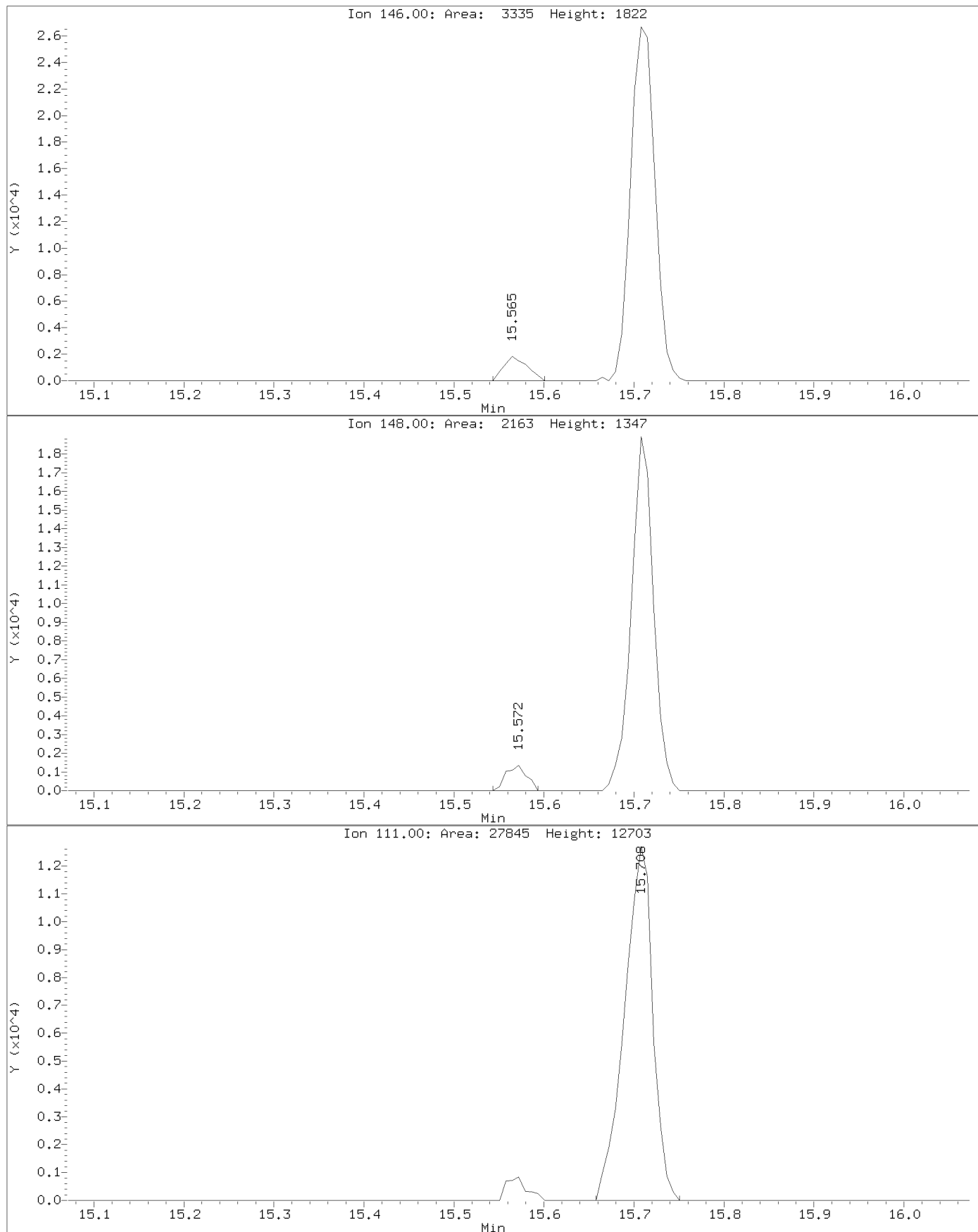
Concentration: 3,3 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\0042213.b\00565.D
Injection Date: 22-APR-2013 13:59
Instrument: gcms-c.i
Client Sample ID: AOC9-MW14LTM040913

BEFORE MANUAL INTEGRATION

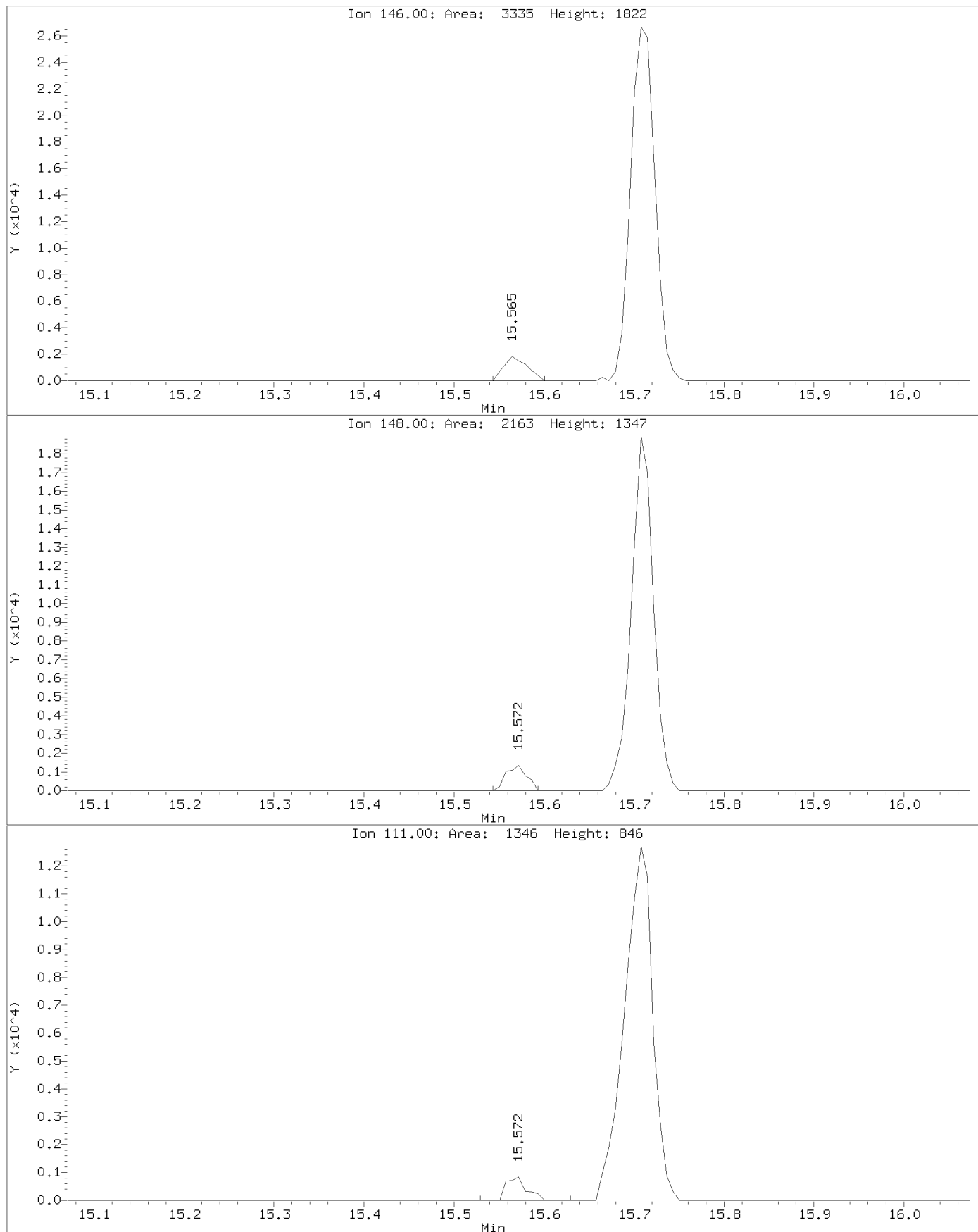
Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1



Data File: \\target_server\gg\chem\gcms-c.i\0042213.b\00565.D
Injection Date: 22-APR-2013 13:59
Instrument: gcms-c.i
Client Sample ID: AOC9-MW14LTM040913

AFTER MANUAL INTEGRATION

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0549.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	1.4	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane		2.4	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	J	0.99	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane		4.5	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0549.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	E	270	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene		1.5	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes		2.2	ug/L	1	2	2.0	0.59	1.0
o-Xylene	J	0.27	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene		3.3	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene		1.5	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		22	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		26	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene		4.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene		1.4	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene		2.6	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene		1.9	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	J	0.73	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		109.	%					
Toluene-d8		99.9	%					
P-Bromofluorobenzene		102.	%					
Dibromofluoromethane		95.9	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0549.D
Report Date: 23-Apr-2013 11:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041913.b\C0549.D
Lab Smp Id: SG2375-13 Client Smp ID: OC9-MW14/DLTM040913
Inj Date : 19-APR-2013 17:30 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-13
Misc Info : WG122901, WG122628-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C041913.b\C826A67.m
Meth Date : 23-Apr-2013 11:05 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	8207	1.40323	1.4	
M 30 1,2-Dichloroethylene (total)	96				8207	1.40323	1.4(a)	
\$ 37 Dibromofluoromethane	113	7.548	7.550	(0.922)	279976	47.9442	47.9	
41 Benzene	78	8.063	8.057	(0.912)	19434	0.98777	0.99(aM)	M10
* 42 Pentafluorobenzene	168	8.185	8.179	(1.000)	487306	50.0000		
43 Cyclohexane	56	7.177	7.178	(0.877)	21431	2.45977	2.4	
\$ 45 1,2-Dichloroethane-D4	65	8.235	8.236	(1.006)	415018	54.4259	54.4	
48 Trichloroethene	95	8.793	8.794	(0.994)	5291	1.00330	1.0	
* 49 1,4-Difluorobenzene	114	8.843	8.844	(1.000)	834731	50.0000		
\$ 55 Toluene-D8	98	10.459	10.453	(1.183)	914399	49.9725	50.0	
* 66 Chlorobenzene-D5	117	12.346	12.340	(1.000)	857587	50.0000		
67 Chlorobenzene	112	12.368	12.362	(1.002)	3559329	269.088	269(A)	11:32 am, Apr 23, 2013
68 Ethylbenzene	106	12.396	12.398	(1.004)	11064	1.47241	1.5	
M 70 Xylenes (total)	106				22211	2.51326	2.5(a)	
71 m+p-Xylenes	106	12.582	12.583	(1.019)	19906	2.23995	2.2	
72 o-Xylene	106	13.154	13.163	(1.065)	2305	0.27331	0.27(a)	
75 Isopropylbenzene	105	13.597	13.592	(0.867)	68995	3.29358	3.3	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.583)	421040	51.2073	51.2	
80 N-Propylbenzene	91	14.191	14.192	(0.904)	57433	2.55877	2.6	
86 tert-Butylbenzene	119	14.956	14.957	(0.953)	13104	0.72697	0.73(a)	
88 1,2,4-Trimethylbenzene	105	15.070	15.072	(0.960)	80423	4.01910	4.0	
90 1,3-Dichlorobenzene	146	15.578	15.572	(0.993)	15443	1.52829	1.5	
* 91 1,4-Dichlorobenzene-D4	152	15.692	15.694	(1.000)	438588	50.0000		
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.001)	256893	22.4545	22.4	

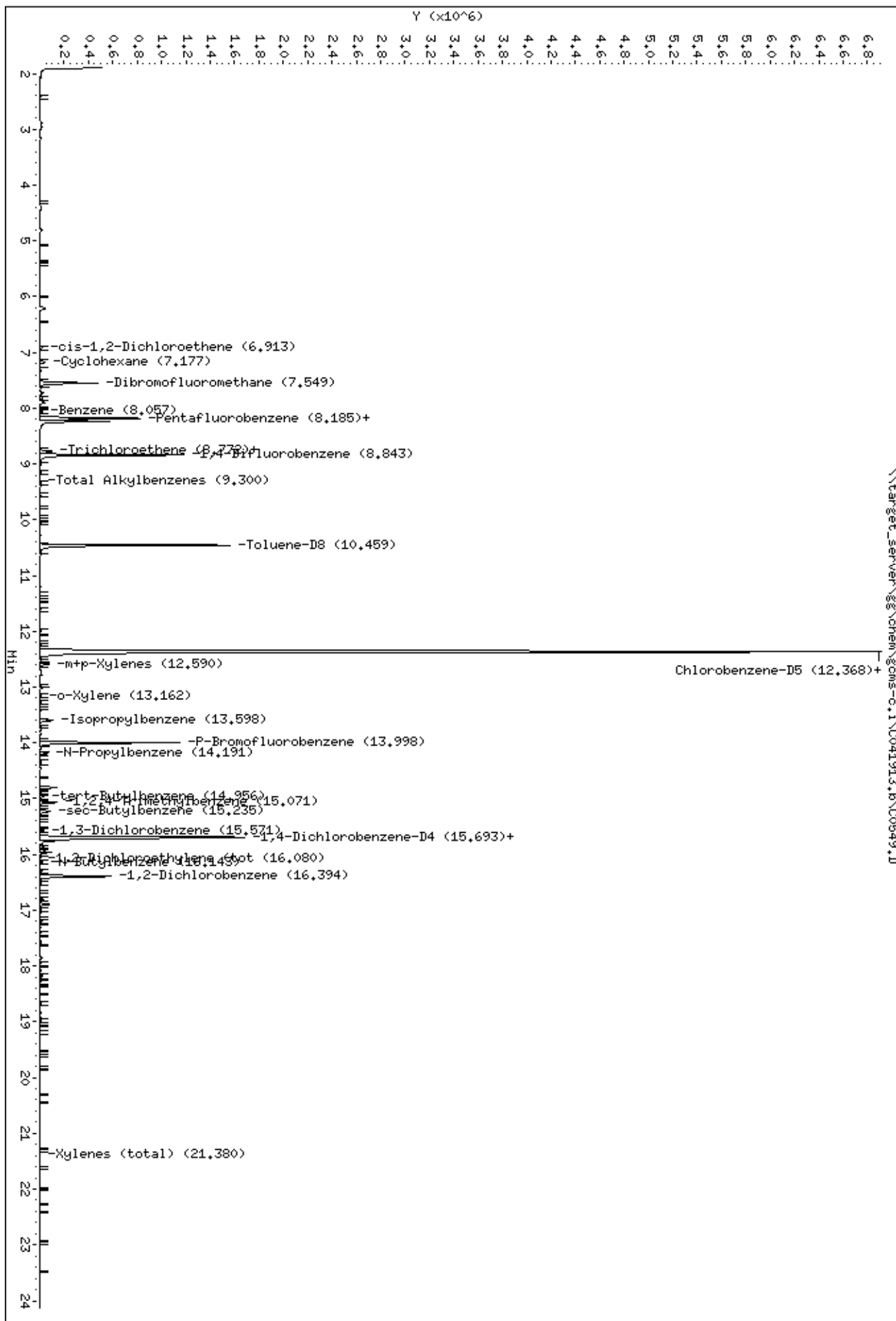
Compounds	QUANT SIG					CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	====	====	=====	=====	=====	=====	=====	=====
93 N-Butylbenzene	91	16.143	16.143	(1.029)	13329	1.41319	1.4	
94 sec-Butylbenzene	105	15.235	15.236	(0.971)	45872	1.86138	1.9	
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	241465	25.4735	25.5	
100 1,2,3-Trimethylbenzene	105	15.757	15.758	(1.004)	85461	4.59864	4.6	
104 Methylcyclohexane	83	8.778	8.772	(1.073)	34932	4.49172	4.5	
M 153 Total Alkylbenzenes	100				210161	10.5794	10.6	

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount
exceeded maximum amount.
- M - Compound response manually integrated.

Data File: \\target_server\gs\chem\goms-c.i\CO41913.b\CO549.D
 Date: 19-APR-2013 17:30
 Client ID: OC9-MM14/DLTH040913
 Sample Info: SG2375-13

Instrument: goms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

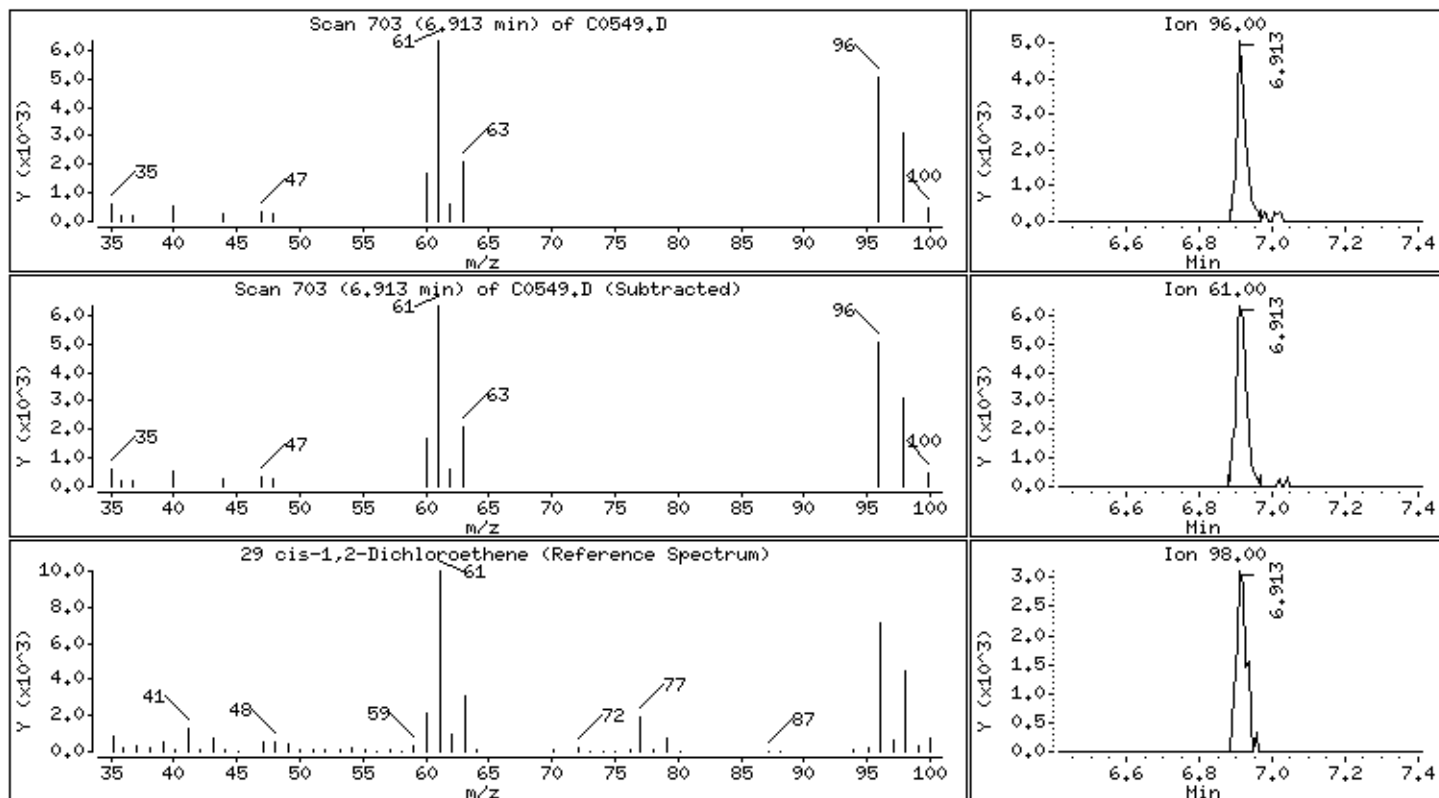
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13

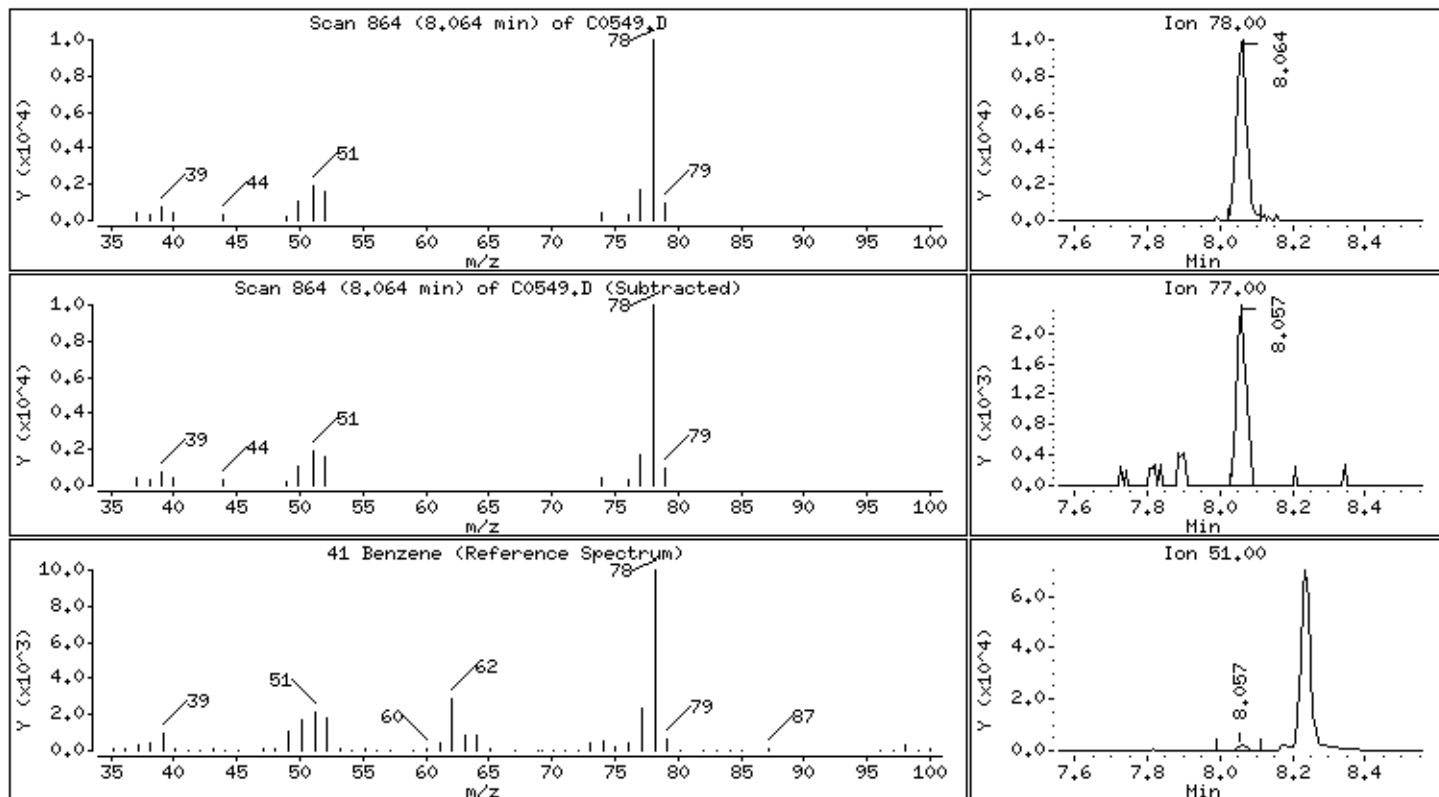
29 cis-1,2-Dichloroethene

Concentration: 1.4 ug/l



41 Benzene

Concentration: 0.99 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

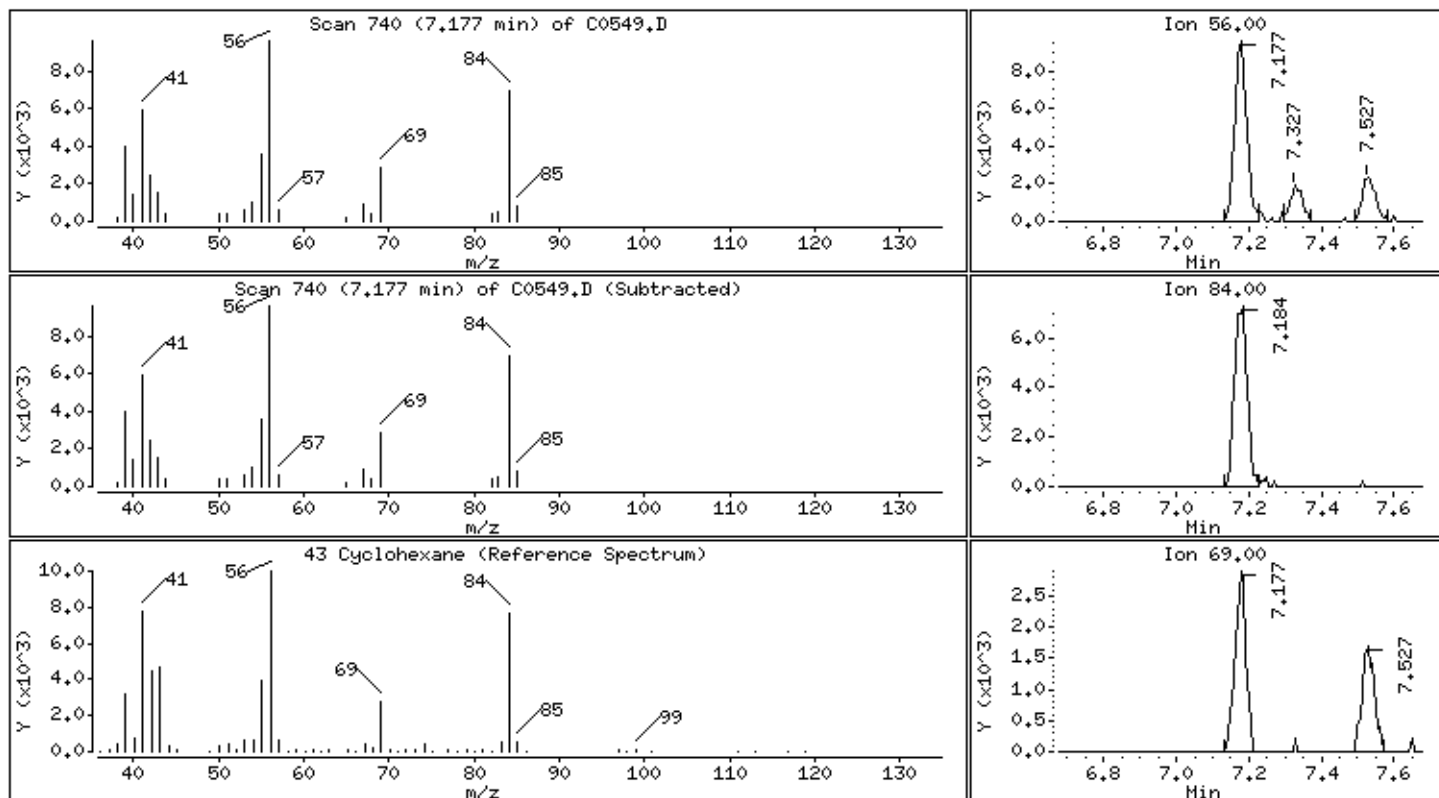
Client ID: OC9-MW14/DLTM040913

Instrument: gms-c.i

Sample Info: SG2375-13

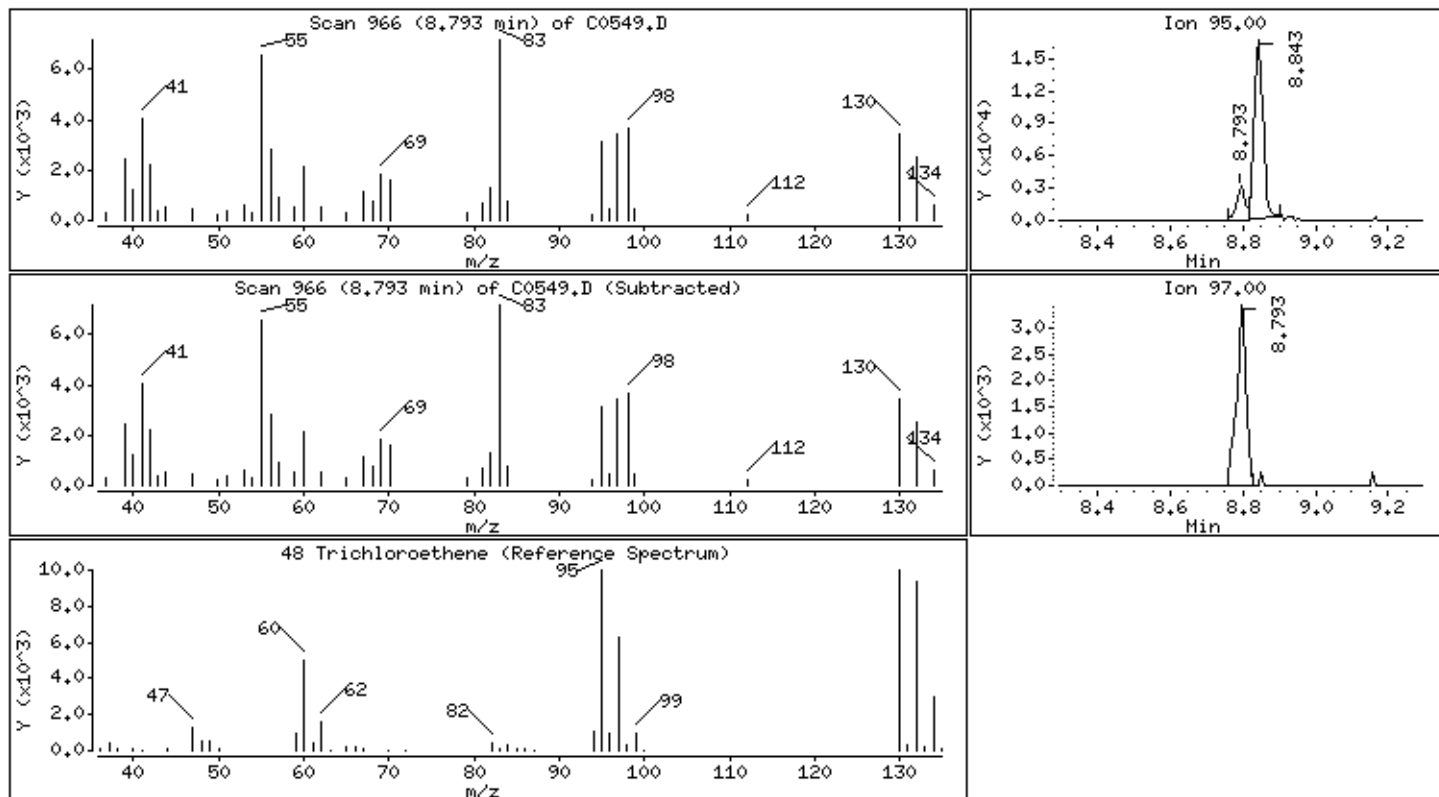
43 Cyclohexane

Concentration: 2.4 ug/l



48 Trichloroethene

Concentration: 1.0 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

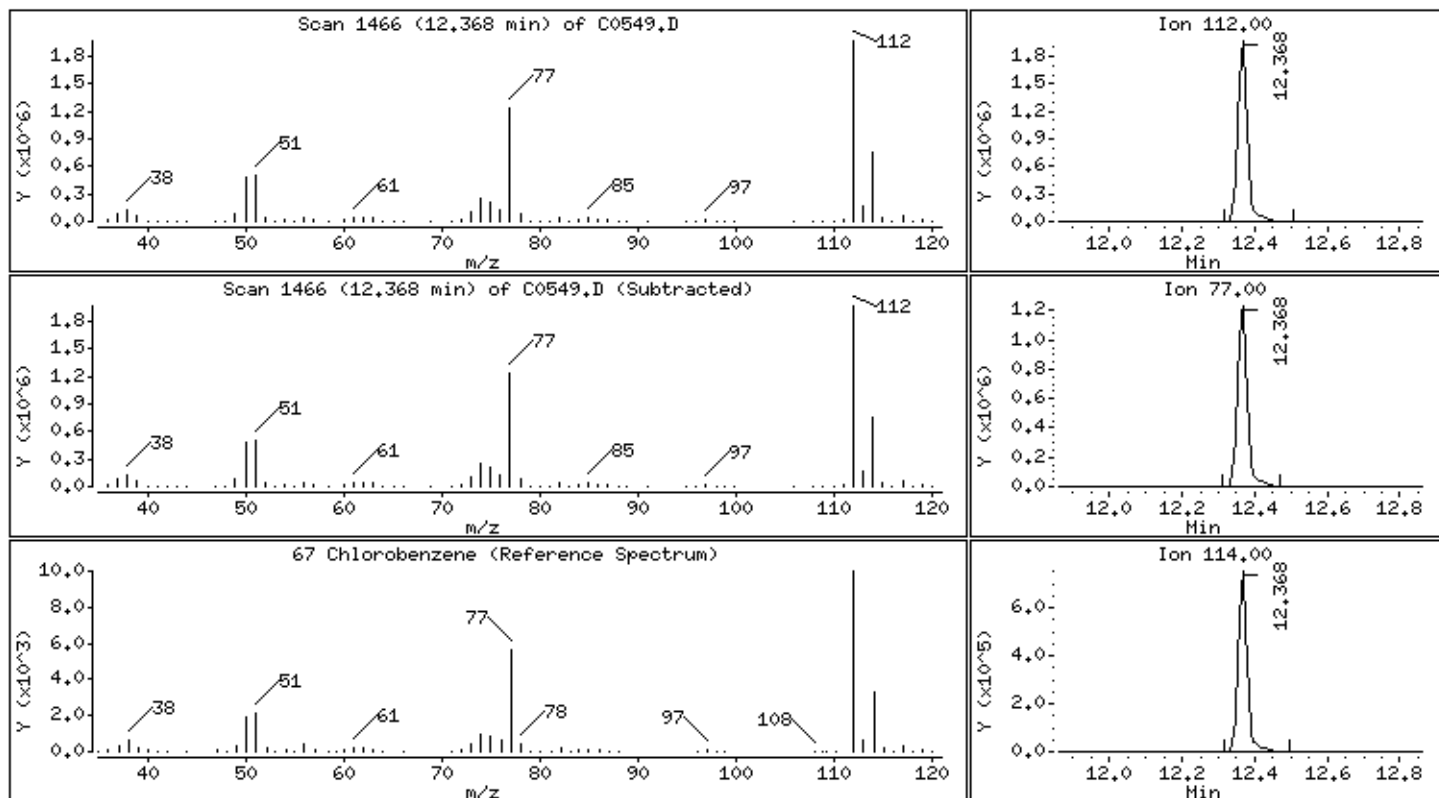
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13

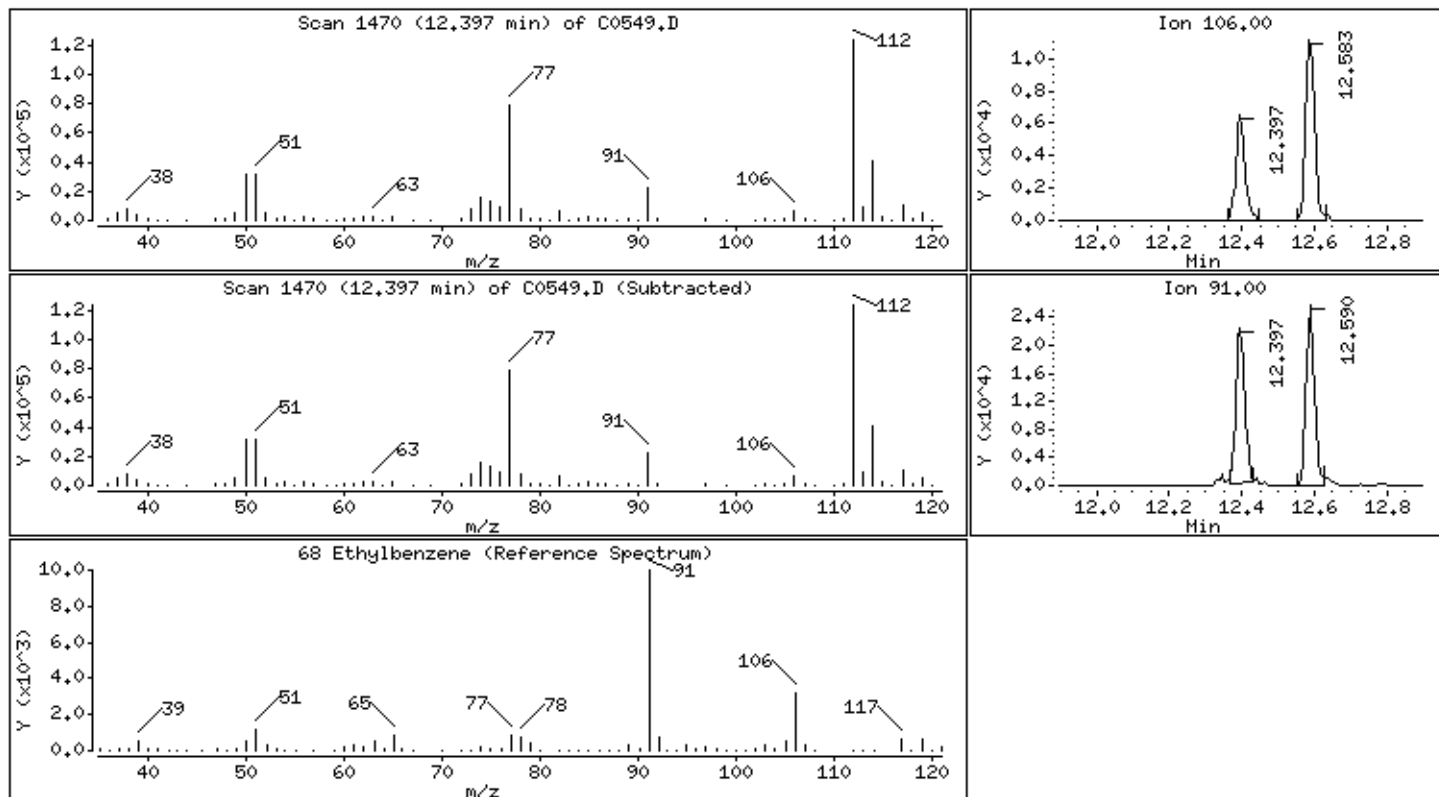
67 Chlorobenzene

Concentration: 269 ug/l



68 Ethylbenzene

Concentration: 1.5 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

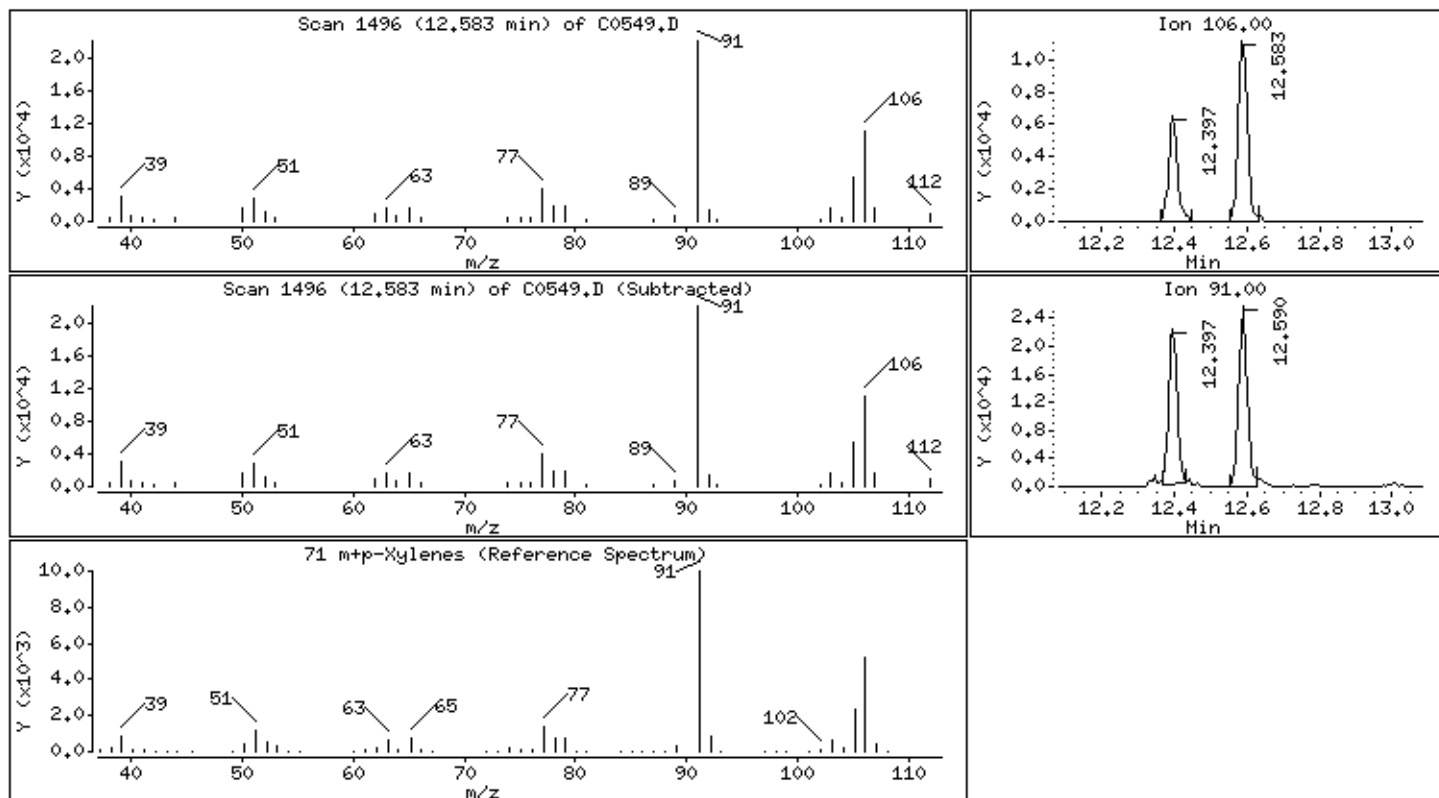
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13

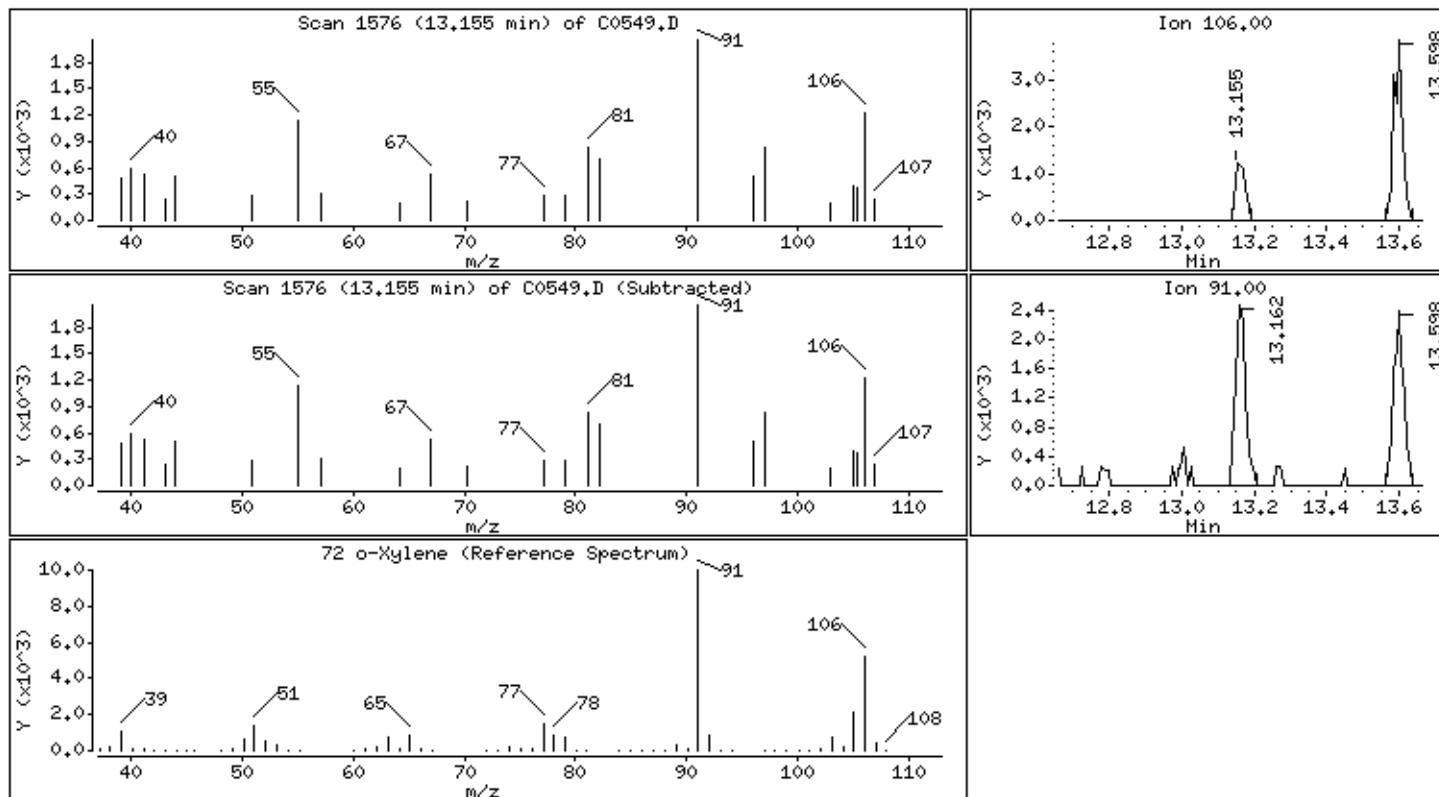
71 m+p-Xylenes

Concentration: 2.2 ug/l



72 o-Xylene

Concentration: 0.27 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

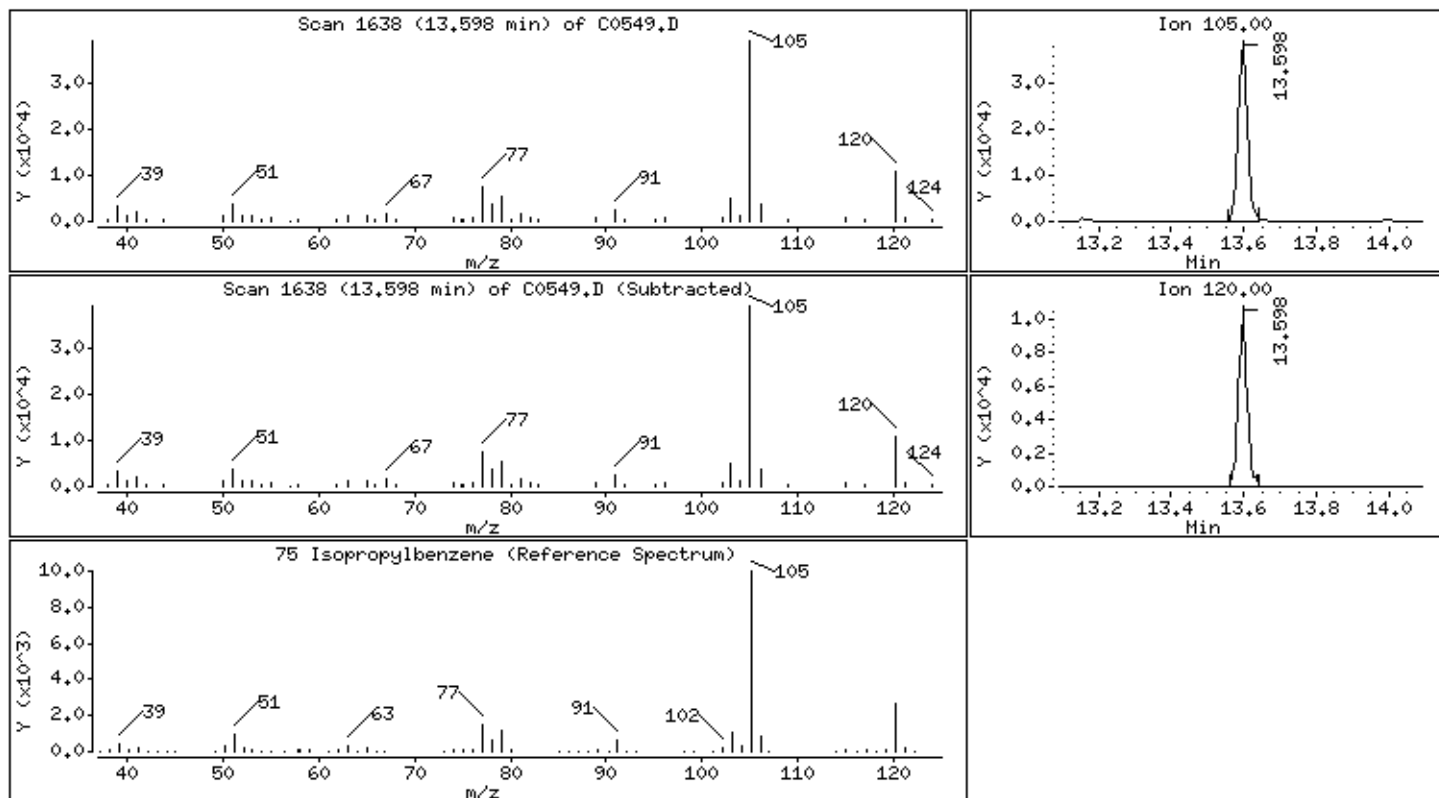
Client ID: OC9-MM14/DLTM040913

Instrument: gms-c.i

Sample Info: SG2375-13

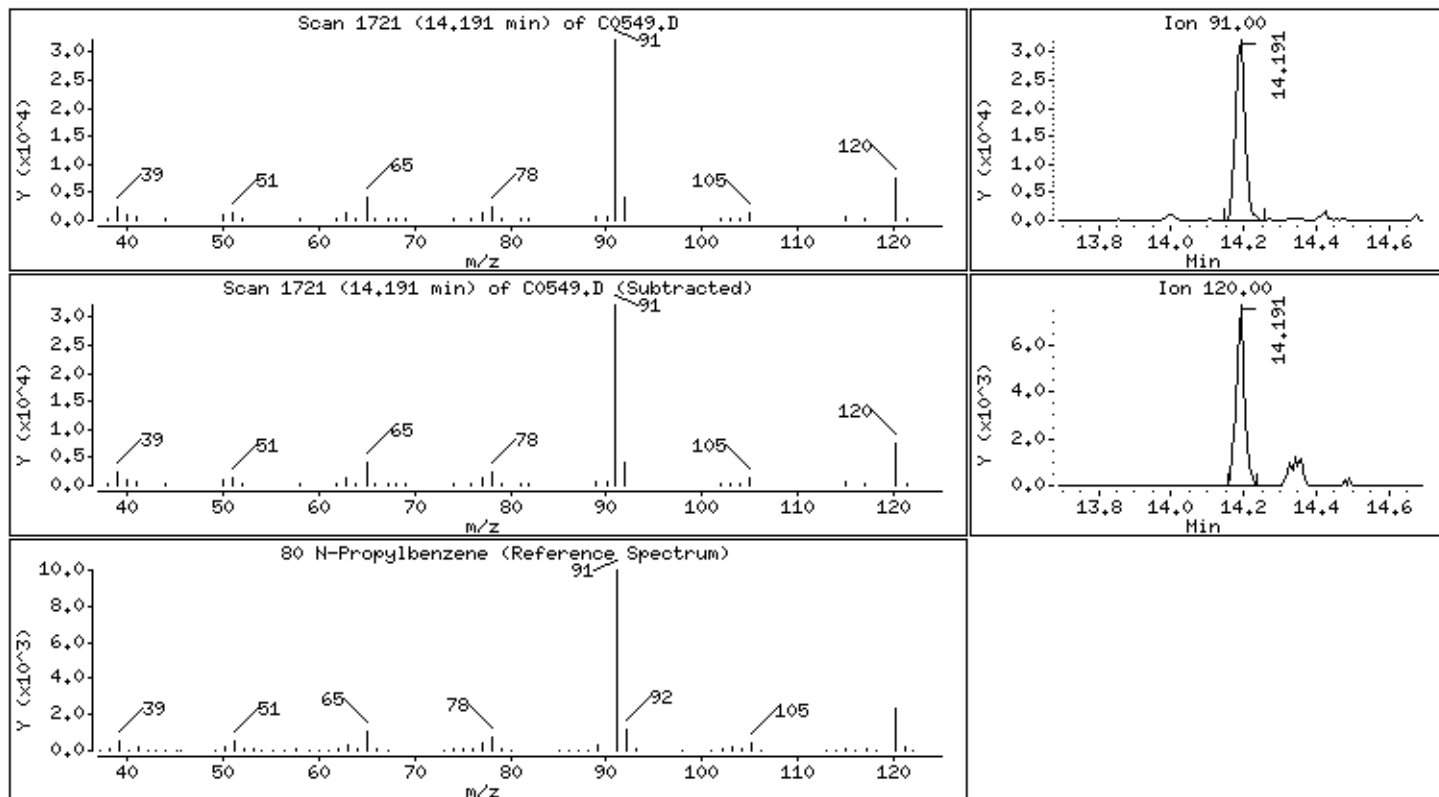
75 Isopropylbenzene

Concentration: 3,3 ug/l



80 N-Propylbenzene

Concentration: 2,6 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

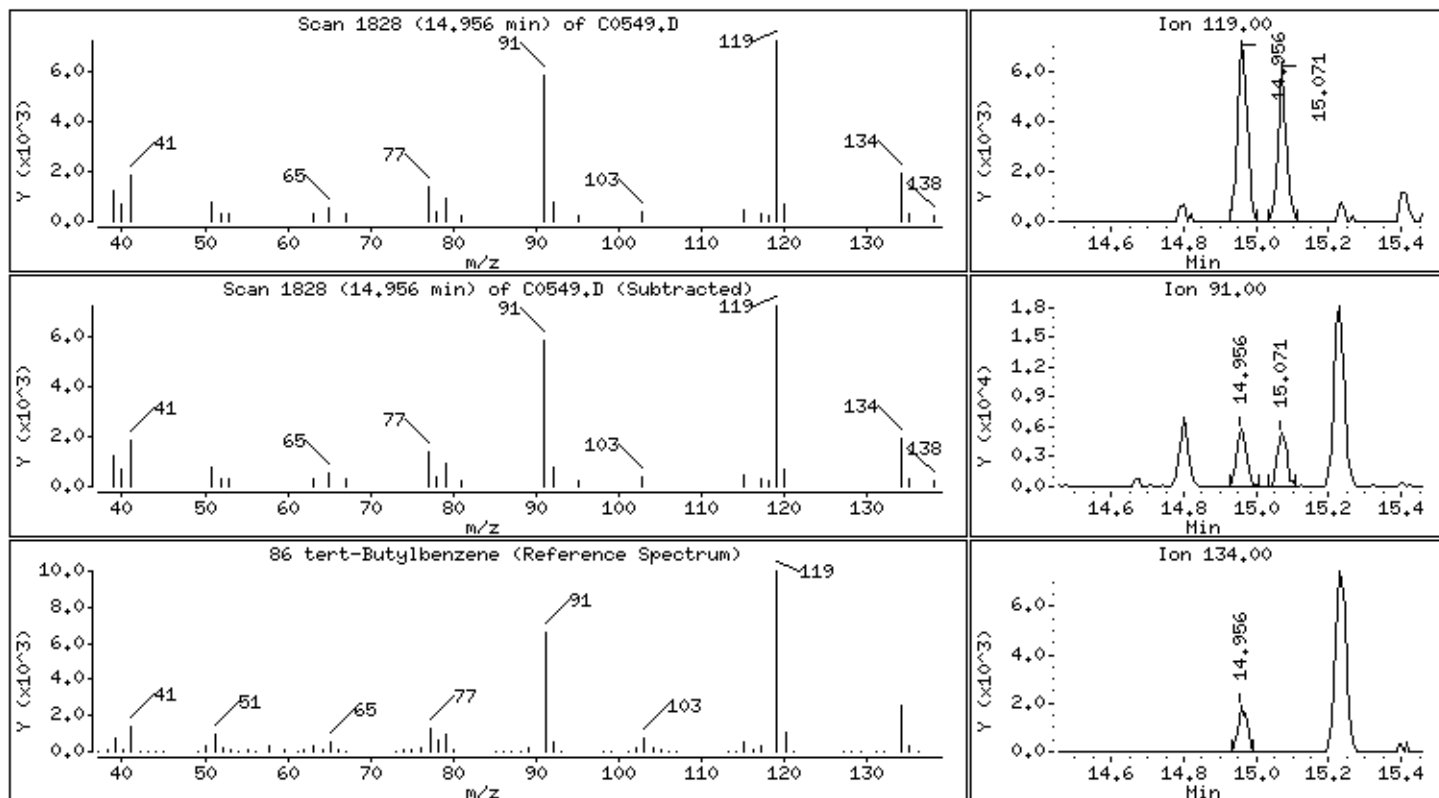
Client ID: OC9-MM14/DLTM040913

Instrument: gms-c.i

Sample Info: SG2375-13

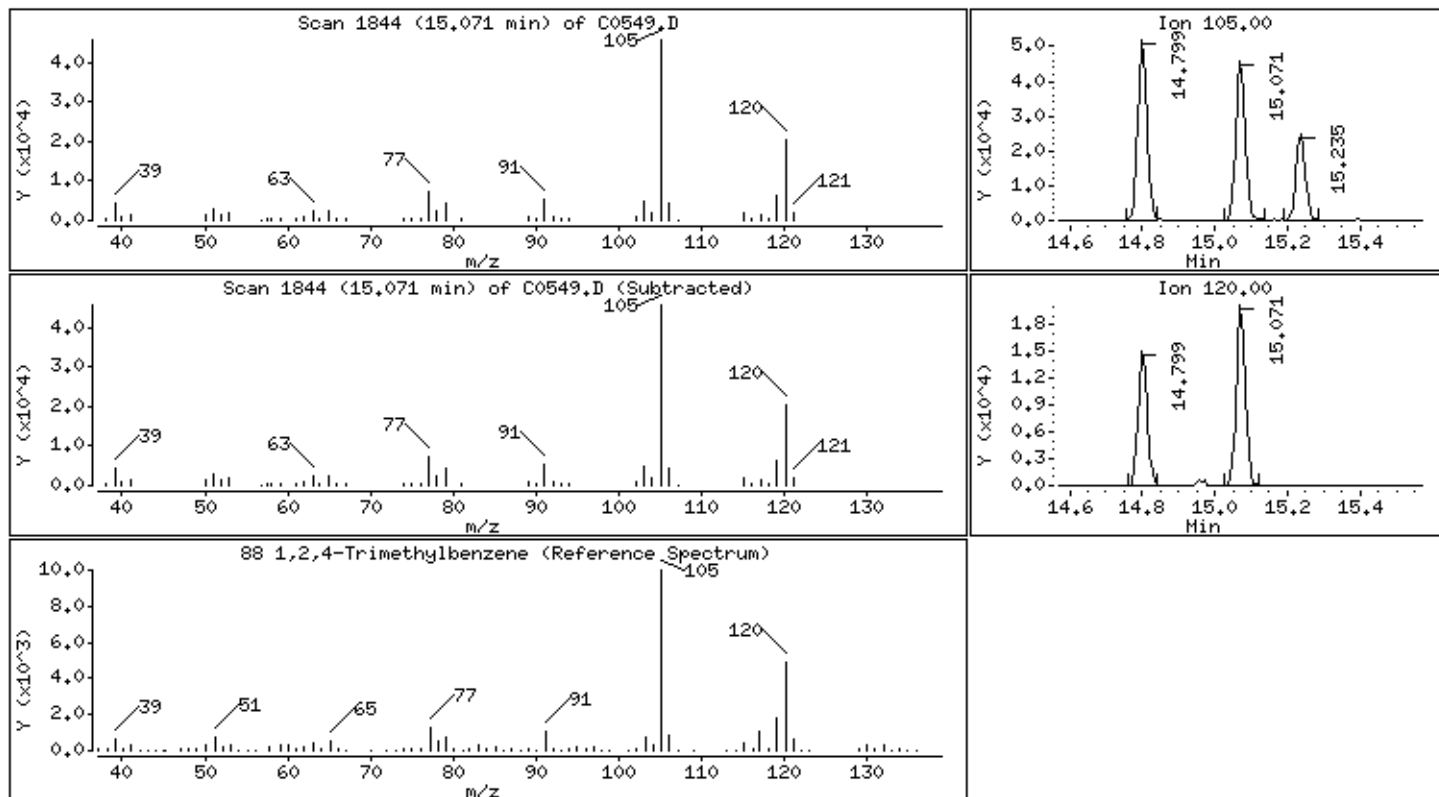
86 tert-Butylbenzene

Concentration: 0.73 ug/l



88 1,2,4-Trimethylbenzene

Concentration: 4.0 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

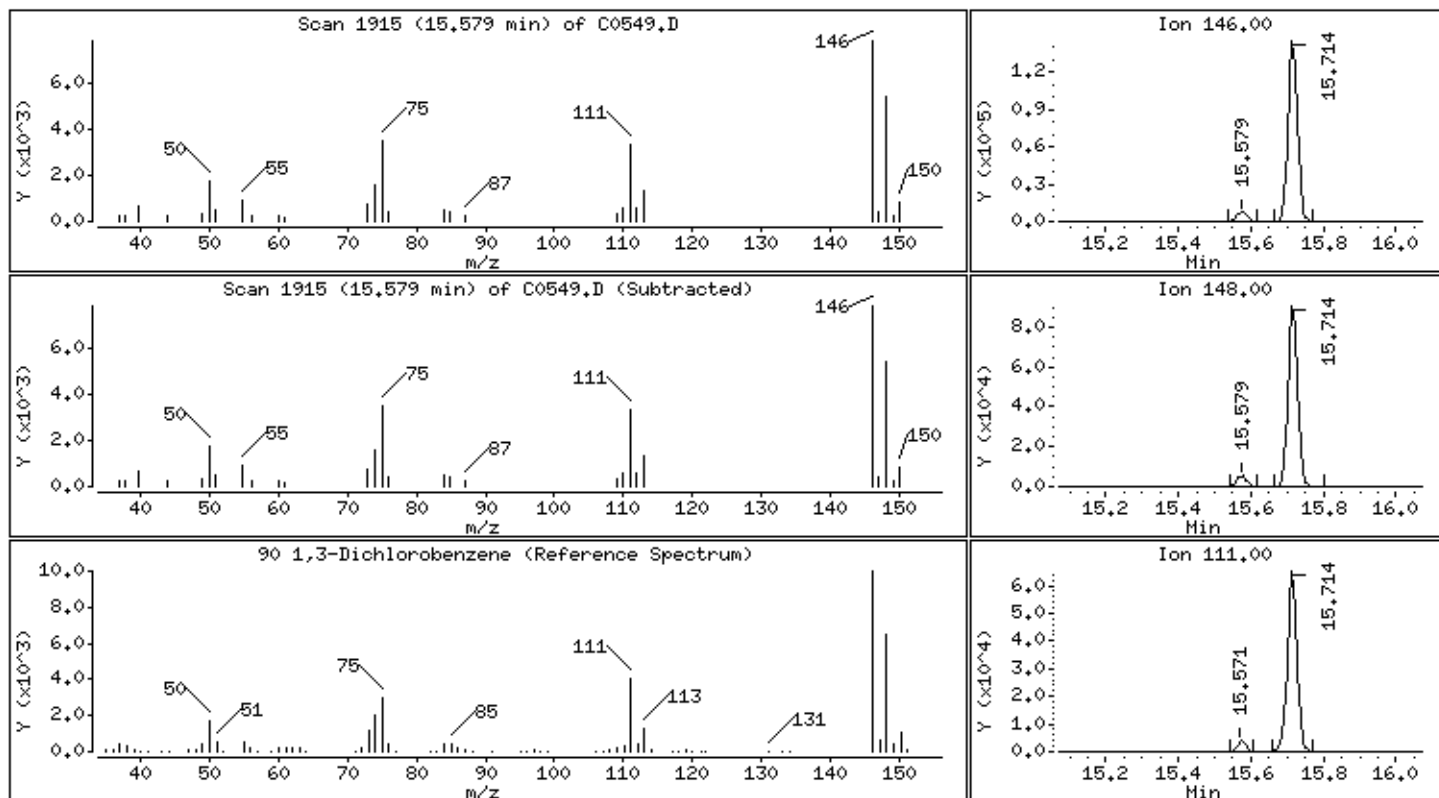
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13

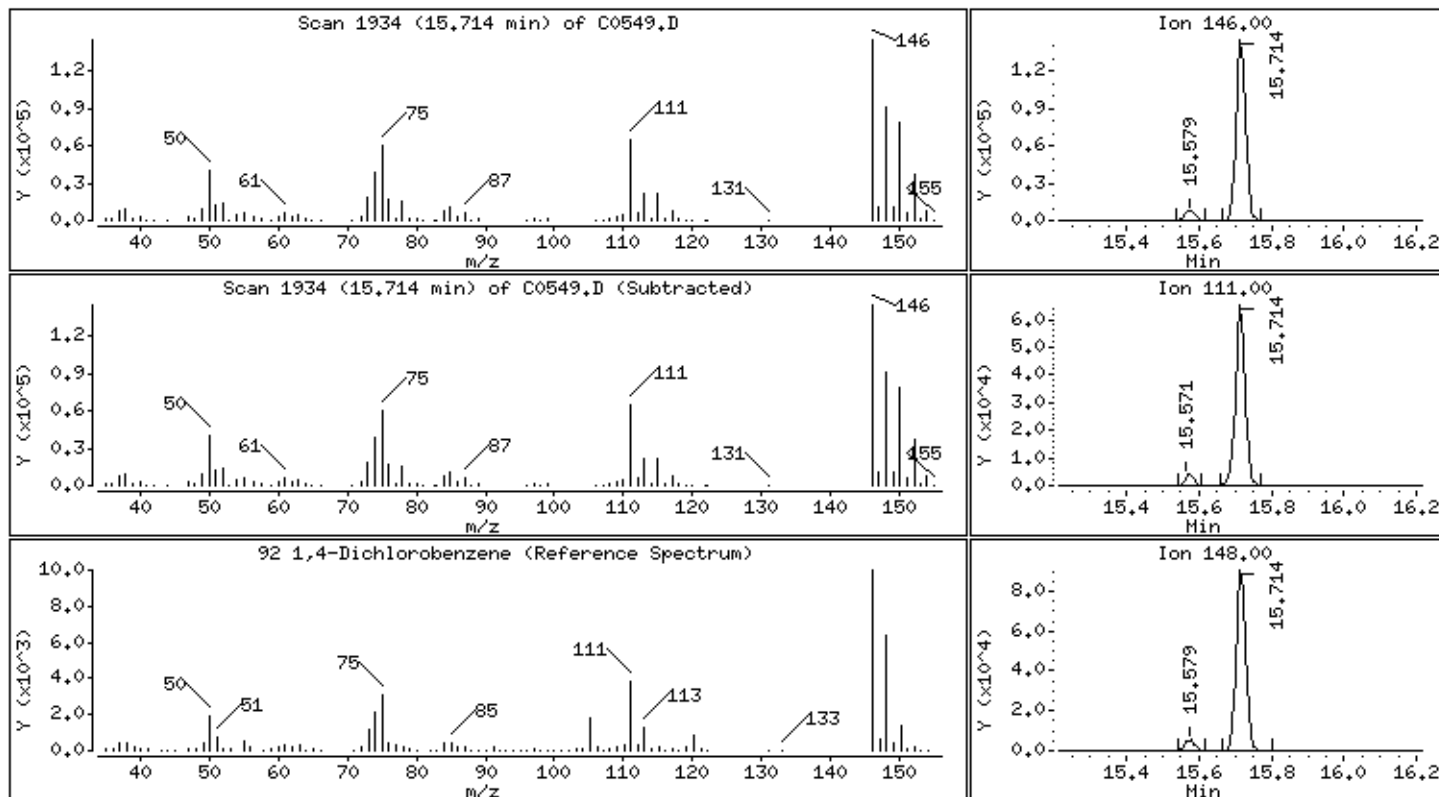
90 1,3-Dichlorobenzene

Concentration: 1,5 ug/l



92 1,4-Dichlorobenzene

Concentration: 22.4 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

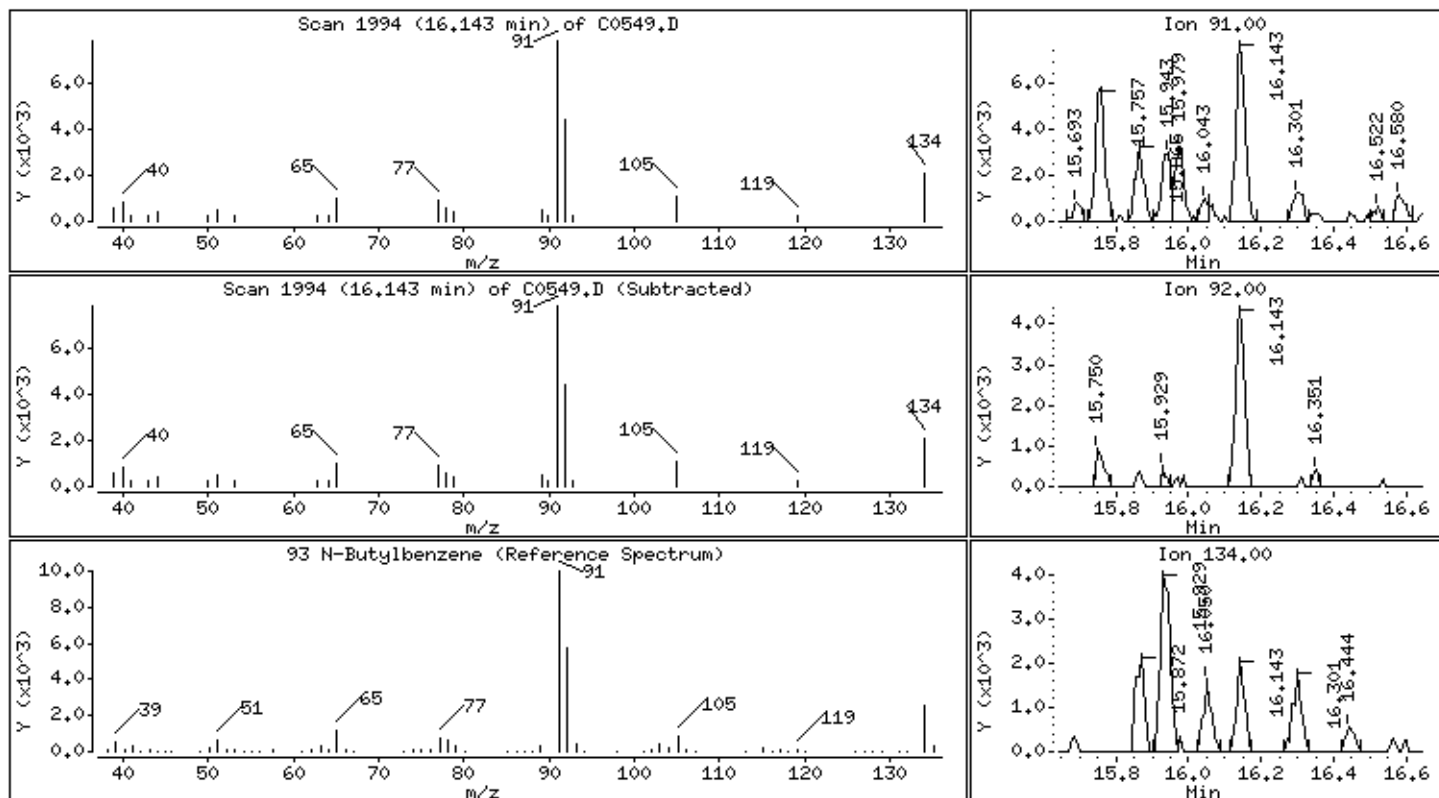
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13

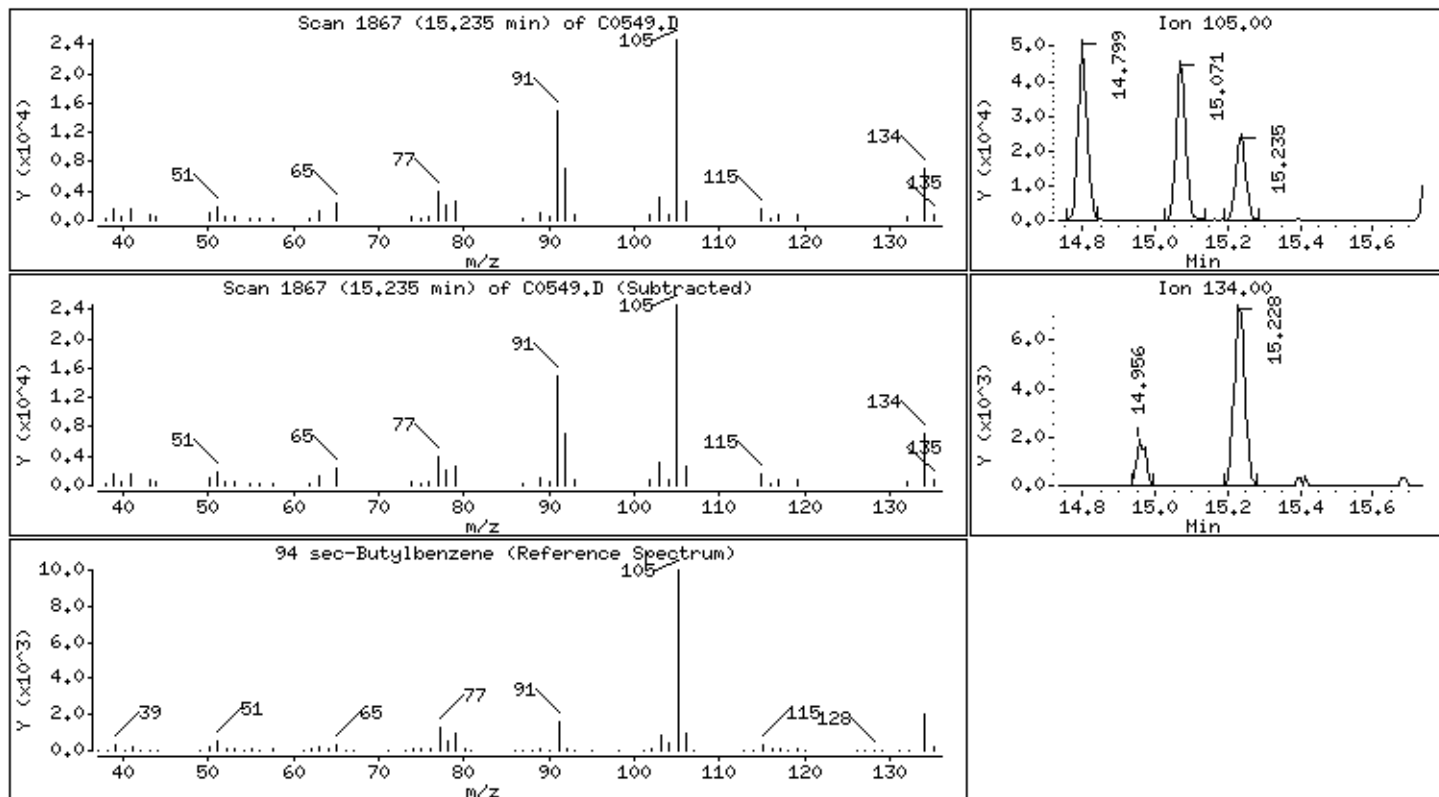
93 N-Butylbenzene

Concentration: 1.4 ug/l



94 sec-Butylbenzene

Concentration: 1.9 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

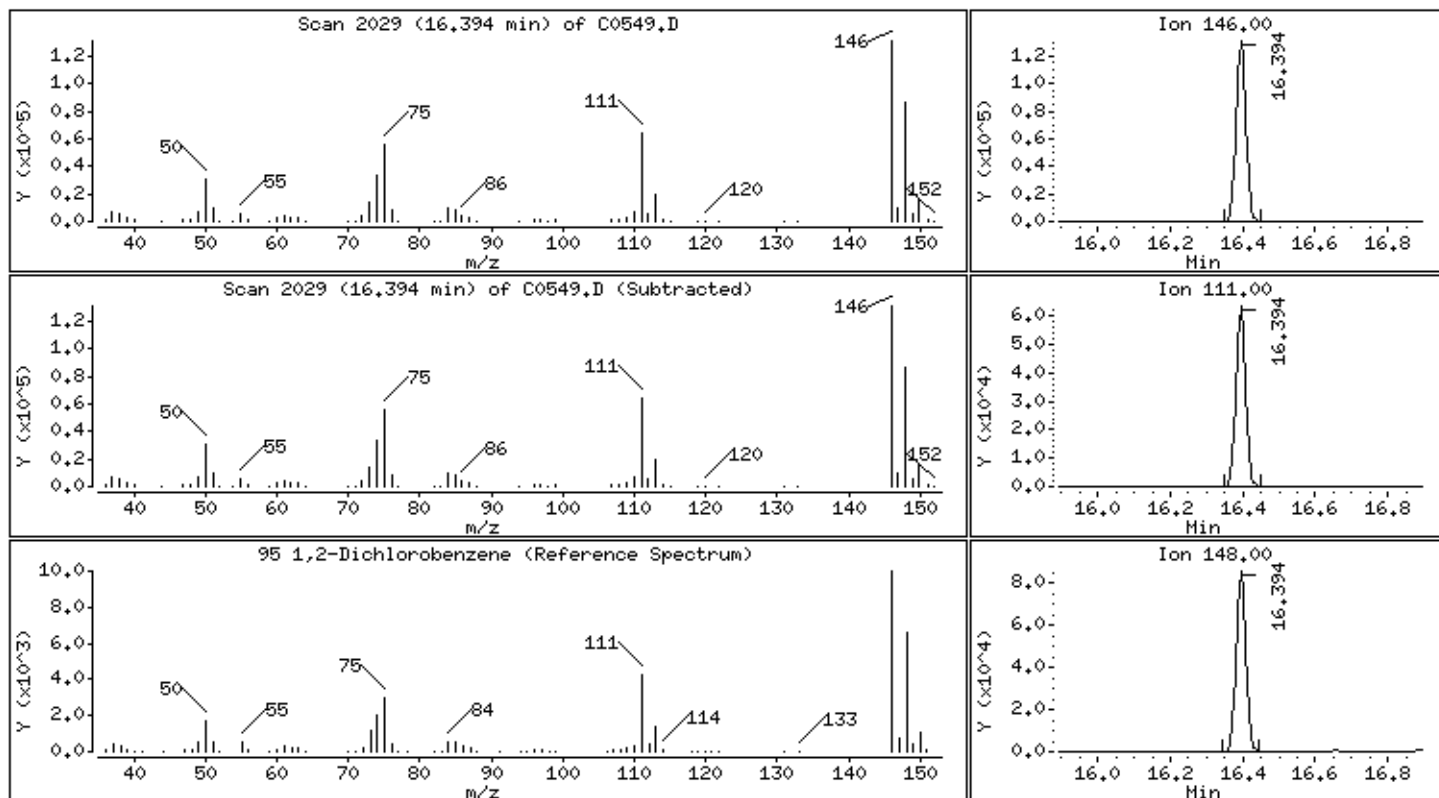
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13

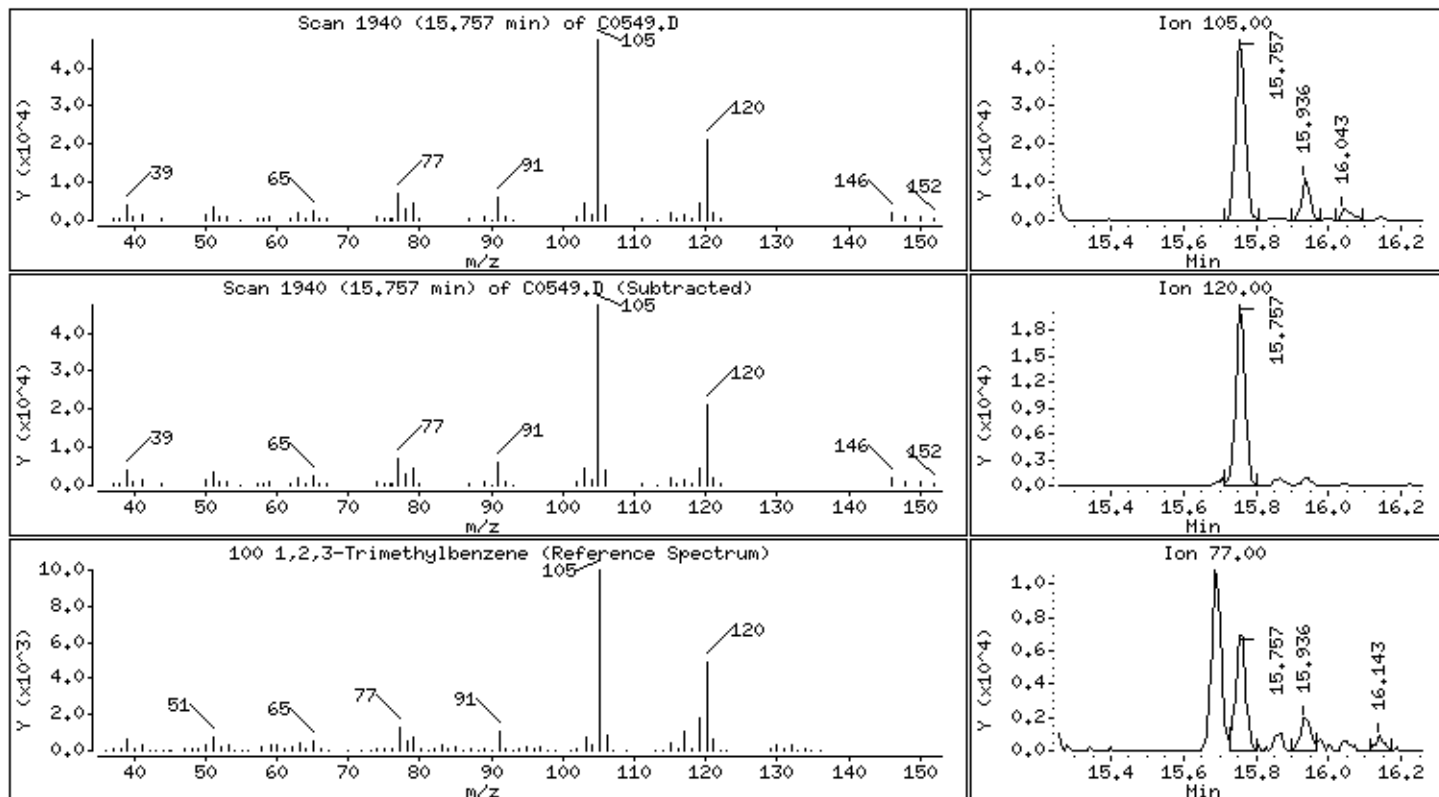
95 1,2-Dichlorobenzene

Concentration: 25.5 ug/l



100 1,2,3-Trimethylbenzene

Concentration: 4.6 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0549.D

Date : 19-APR-2013 17:30

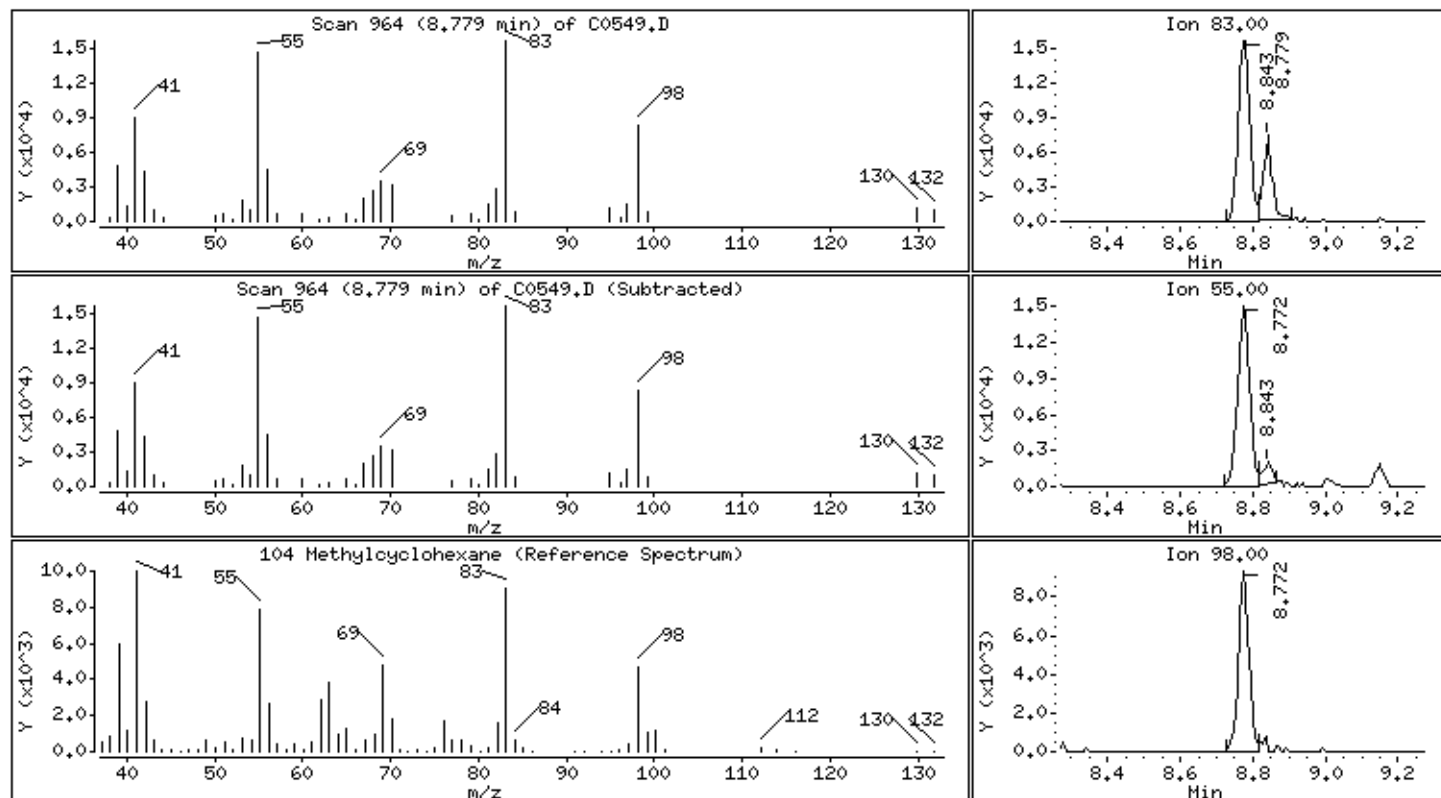
Client ID: OC9-MW14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13

104 Methylcyclohexane

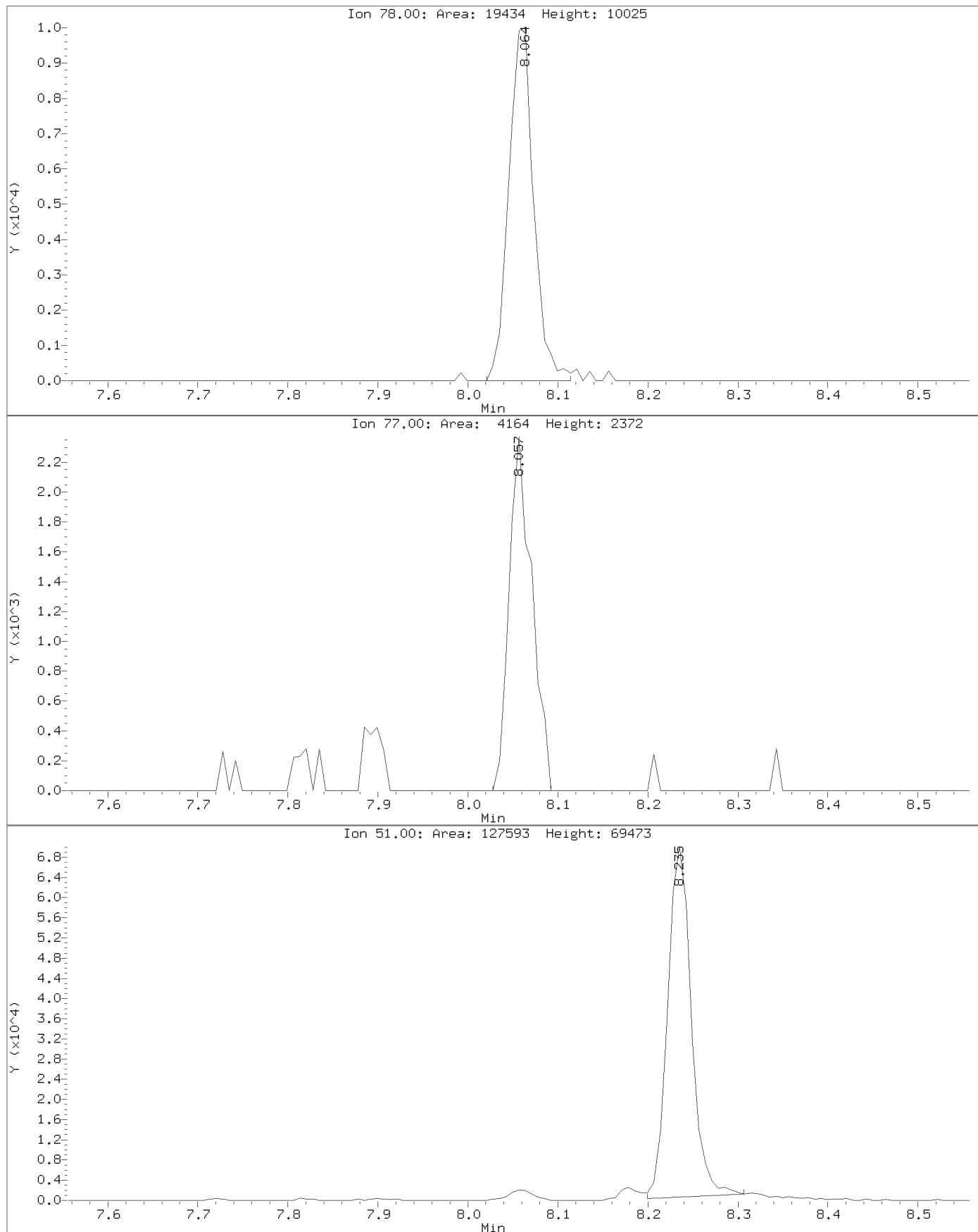
Concentration: 4,5 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\0041913.b\00549.D
Injection Date: 19-APR-2013 17:30
Instrument: gcms-c.i
Client Sample ID: 009-MW14/DLTM040913

BEFORE MANUAL INTEGRATION

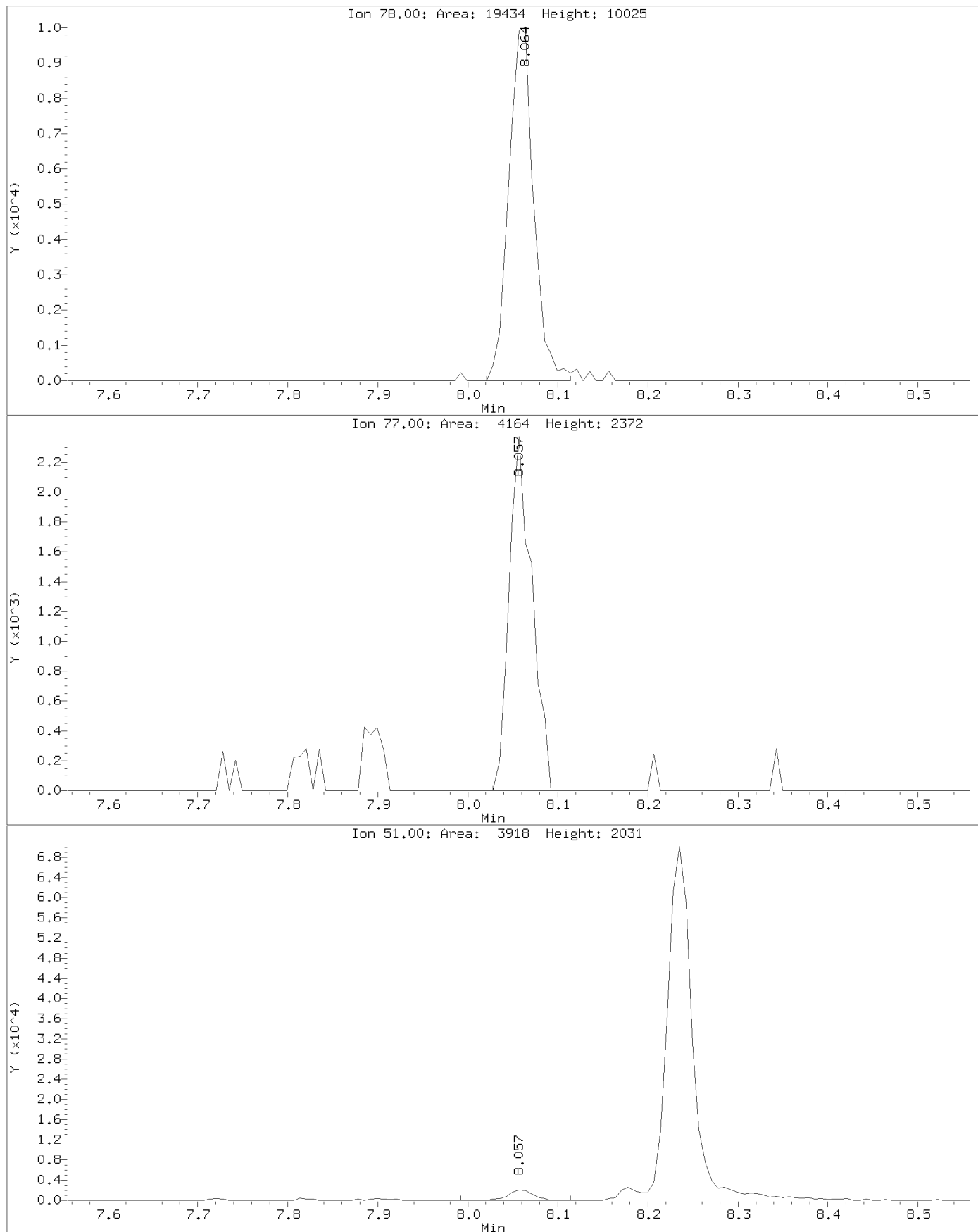
Compound: Benzene
CAS Number: 71-43-2



Data File: \\target_server\gg\chem\gcms-c.i\0041913.b\00549.D
Injection Date: 19-APR-2013 17:30
Instrument: gcms-c.i
Client Sample ID: 009-MW14/DLTM040913

Compound: Benzene
CAS Number: 71-43-2

AFTER MANUAL INTEGRATION



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13DL
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0566.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	10	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	10	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	10	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	10	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	10	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.8	2.5
Freon-113	U	5.0	ug/L	5	1	5.0	1.6	2.5
Acetone	U	25	ug/L	5	5	25.	11.	12.
Carbon Disulfide	U	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl Acetate	U	5.0	ug/L	5	1	5.0	2.6	3.8
Methylene Chloride	U	25	ug/L	5	5	25.	5.6	12.
trans-1,2-Dichloroethene	UL	5.0	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	5.0	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	JL	1.1	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	25	ug/L	5	5	25.	6.6	12.
Chloroform	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Cyclohexane	J	1.7	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	5.0	ug/L	5	1	5.0	1.1	2.5
Benzene	U	5.0	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
Trichloroethene	U	5.0	ug/L	5	1	5.0	1.4	2.5
Methylcyclohexane	J	3.6	ug/L	5	1	5.0	1.5	2.5
1,2-Dichloropropane	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	0.95	2.5
4-Methyl-2-Pentanone	U	25	ug/L	5	5	25.	6.6	12.
Toluene	U	5.0	ug/L	5	1	5.0	1.4	2.5
trans-1,3-Dichloropropene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	5.0	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	5.0	ug/L	5	1	5.0	2.0	2.5
2-Hexanone	U	25	ug/L	5	5	25.	8.5	12.
Dibromochloromethane	U	5.0	ug/L	5	1	5.0	1.5	2.5

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-13DL
Client ID: OC9-MW14/DLTM04091
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0566.D

Sample Date: 09-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	5.0	ug/L	5	1	5.0	1.1	2.5
Chlorobenzene		250	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	J	1.4	ug/L	5	1	5.0	1.0	2.5
M+P-Xylenes	U	10	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Styrene	U	5.0	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	5.0	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	J	2.4	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	J	1.6	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene		20	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene		23	ug/L	5	1	5.0	0.75	2.5
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	5	1	5.0	2.5	2.5
1,2,4-Trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.8	2.5
bromochloromethane	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,4-Dioxane	U	500	ug/L	5	100	500	44.	250
1,2,3-trichlorobenzene	U	5.0	ug/L	5	1	5.0	1.4	2.5
1,3,5-Trimethylbenzene	U	5.0	ug/L	5	1	5.0	1.0	2.5
1,2,4-Trimethylbenzene	J	2.5	ug/L	5	1	5.0	0.95	2.5
4-Chlorotoluene	U	5.0	ug/L	5	1	5.0	0.95	2.5
n-Butylbenzene		5.4	ug/L	5	1	5.0	1.2	2.5
n-Propylbenzene		6.0	ug/L	5	1	5.0	1.3	2.5
Naphthalene	U	5.0	ug/L	5	1	5.0	1.5	2.5
p-Isopropyltoluene	U	5.0	ug/L	5	1	5.0	1.2	2.5
sec-Butylbenzene	J	1.4	ug/L	5	1	5.0	1.0	2.5
tert-Butylbenzene	U	5.0	ug/L	5	1	5.0	1.6	2.5
1,2-Dichloroethane-d4		99.0	%					
Toluene-d8		98.0	%					
P-Bromofluorobenzene		96.4	%					
Dibromofluoromethane		92.6	%					

Data File: \\target_server\gg\chem\gcms-c.i\C042213.b\C0566.D
Report Date: 23-Apr-2013 11:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C042213.b\C0566.D
Lab Smp Id: SG2375-13DL Client Smp ID: OC9-MW14/DLTM040913
Inj Date : 22-APR-2013 14:31 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-13DL
Misc Info : WG123007, WG122628-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C042213.b\C826A67.m
Meth Date : 23-Apr-2013 11:14 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 11
Dil Factor: 5.00000
Integrator: HP RTE
Target Version: 4.12

Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	1519	0.22561	1.1(a)	
M 30 1,2-Dichloroethylene (total)	96				1519	0.22561	1.1(a)	
\$ 37 Dibromofluoromethane	113	7.541	7.550	(0.922)	311108	46.2785	46.3	
* 42 Pentafluorobenzene	168	8.177	8.179	(1.000)	560983	50.0000		
43 Cyclohexane	56	7.169	7.178	(0.877)	3411	0.34008	1.7(a)	
\$ 45 1,2-Dichloroethane-D4	65	8.227	8.236	(1.006)	434427	49.4889	49.5	
* 49 1,4-Difluorobenzene	114	8.835	8.844	(1.000)	942252	50.0000		
\$ 55 Toluene-D8	98	10.451	10.453	(1.183)	1011908	48.9909	49.0	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	919878	50.0000		
67 Chlorobenzene	112	12.360	12.362	(1.002)	700128	49.3460	247	
152 1-Chlorohexane	91	12.339	12.333	(1.000)	2371	0.26556	1.3(a)	
68 Ethylbenzene	106	12.389	12.398	(1.004)	2332	0.28933	1.4(a)	11:33 am, Apr 23, 2013
75 Isopropylbenzene	105	13.590	13.592	(0.866)	11364	0.47421	2.4(a)	
\$ 76 P-Bromofluorobenzene	95	13.990	13.999	(1.583)	447580	48.2235	48.2	
80 N-Propylbenzene	91	14.183	14.192	(0.904)	9668	1.20673	6.0	
88 1,2,4-Trimethylbenzene	105	15.063	15.072	(0.960)	11464	0.50081	2.5(a)	
90 1,3-Dichlorobenzene	146	15.578	15.572	(0.993)	3709	0.32086	1.6(aM)	M10
* 91 1,4-Dichlorobenzene-D4	152	15.685	15.694	(1.000)	501731	50.0000		
92 1,4-Dichlorobenzene	146	15.706	15.715	(1.001)	52622	4.02073	20.1	
93 N-Butylbenzene	91	16.135	16.143	(1.029)	2969	1.07892	5.4	
94 sec-Butylbenzene	105	15.234	15.236	(0.971)	8166	0.28966	1.4(a)	
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	49808	4.59325	23.0	
100 1,2,3-Trimethylbenzene	105	15.756	15.758	(1.005)	14982	0.70472	3.5(a)	
104 Methylcyclohexane	83	8.763	8.772	(1.072)	6396	0.71441	3.6(a)	

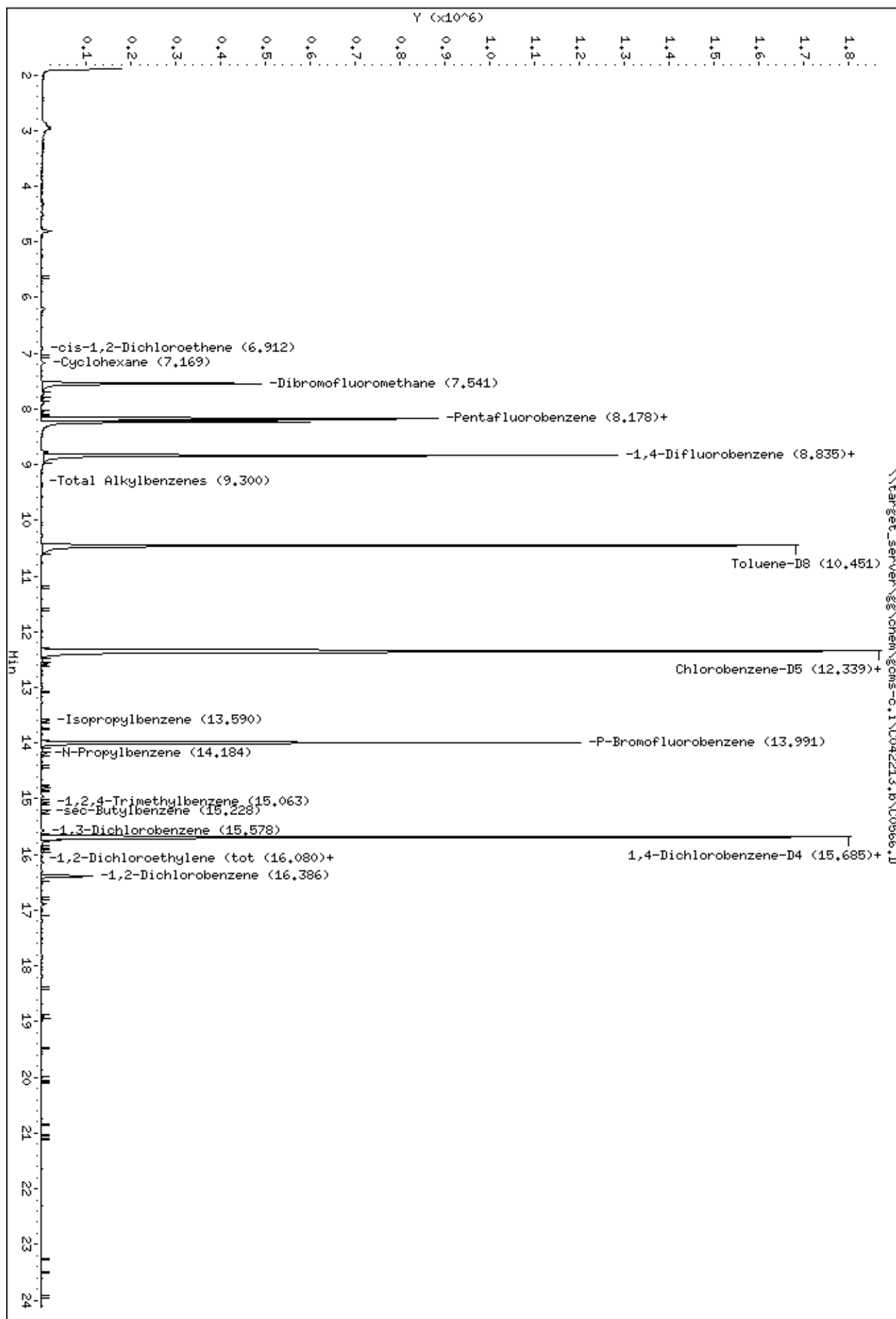
Compounds	QUANT SIG					CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
M 153 Total Alkylbenzenes	100				32267	3.07612	15.4(a)	

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: \\target_server\gs\chem\gms-c.i\042213.b\00566.D
 Date : 22-APR-2013 14:31
 Client ID: 009-MM14/DLTH040913
 Sample Info: SG2375-13DL

Instrument: gms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

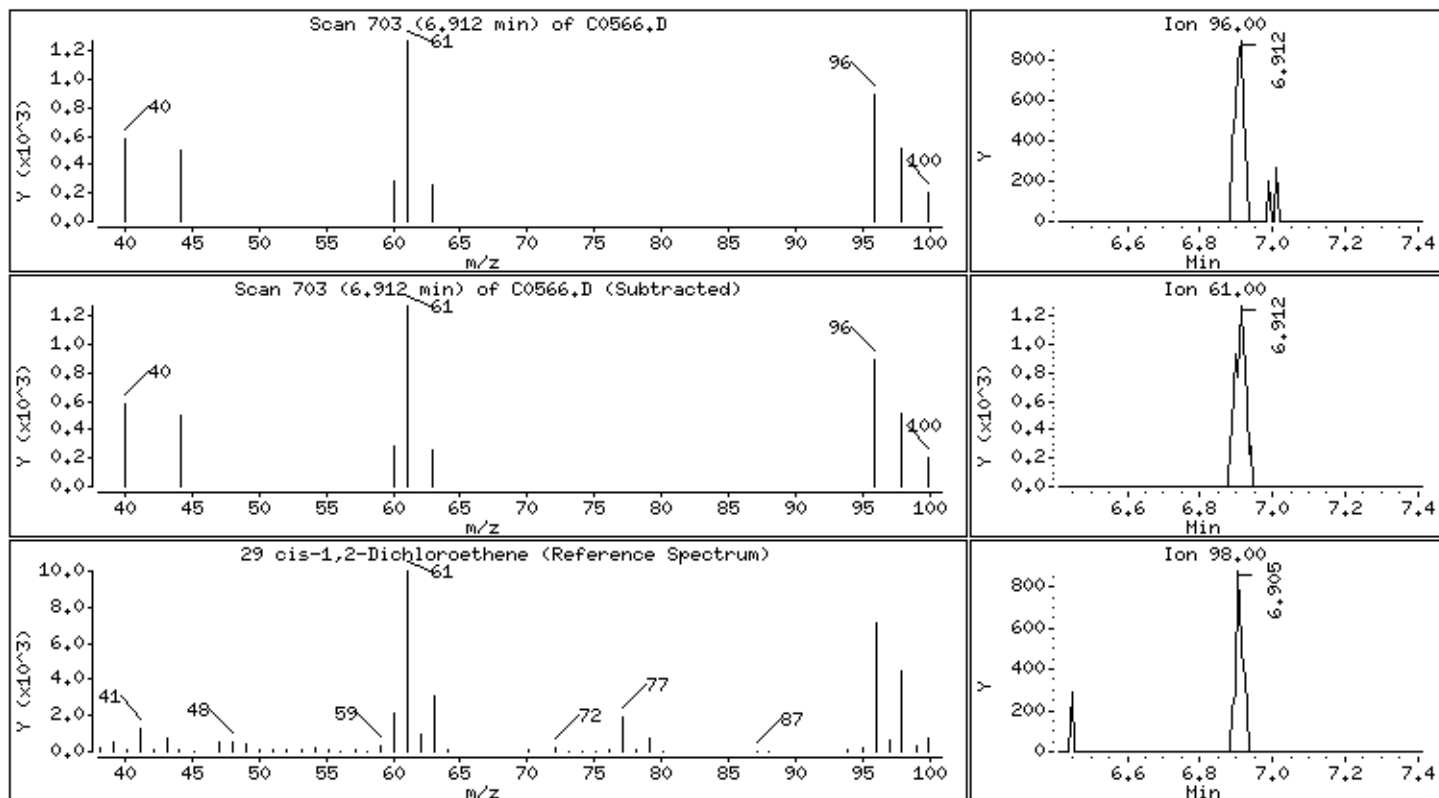
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13DL

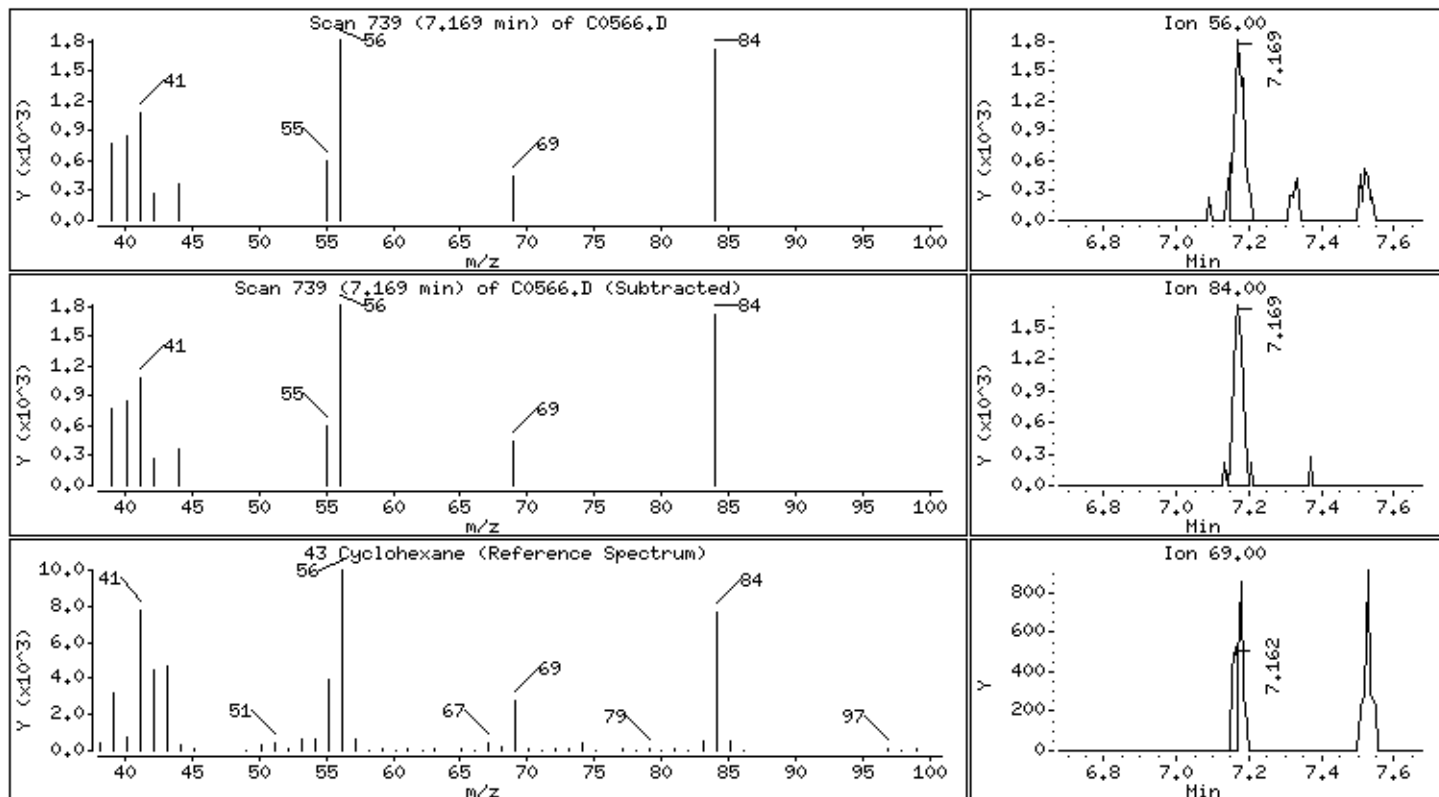
29 cis-1,2-Dichloroethene

Concentration: 1.1 ug/l



43 Cyclohexane

Concentration: 1.7 ug/l



Data File: \\target_server\gg\chem\gms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

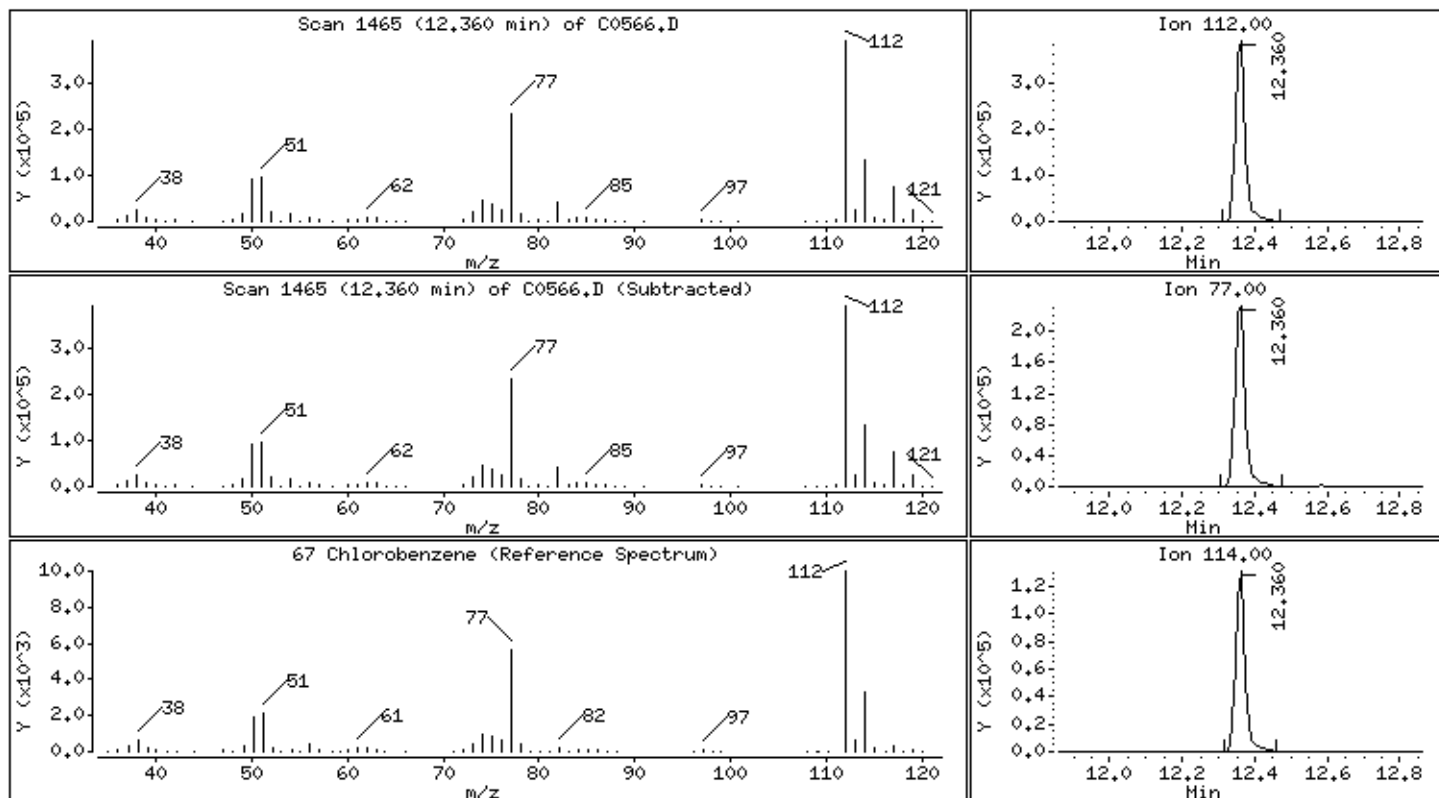
Client ID: OC9-MW14/DLTM040913

Instrument: gms-c.i

Sample Info: SG2375-13DL

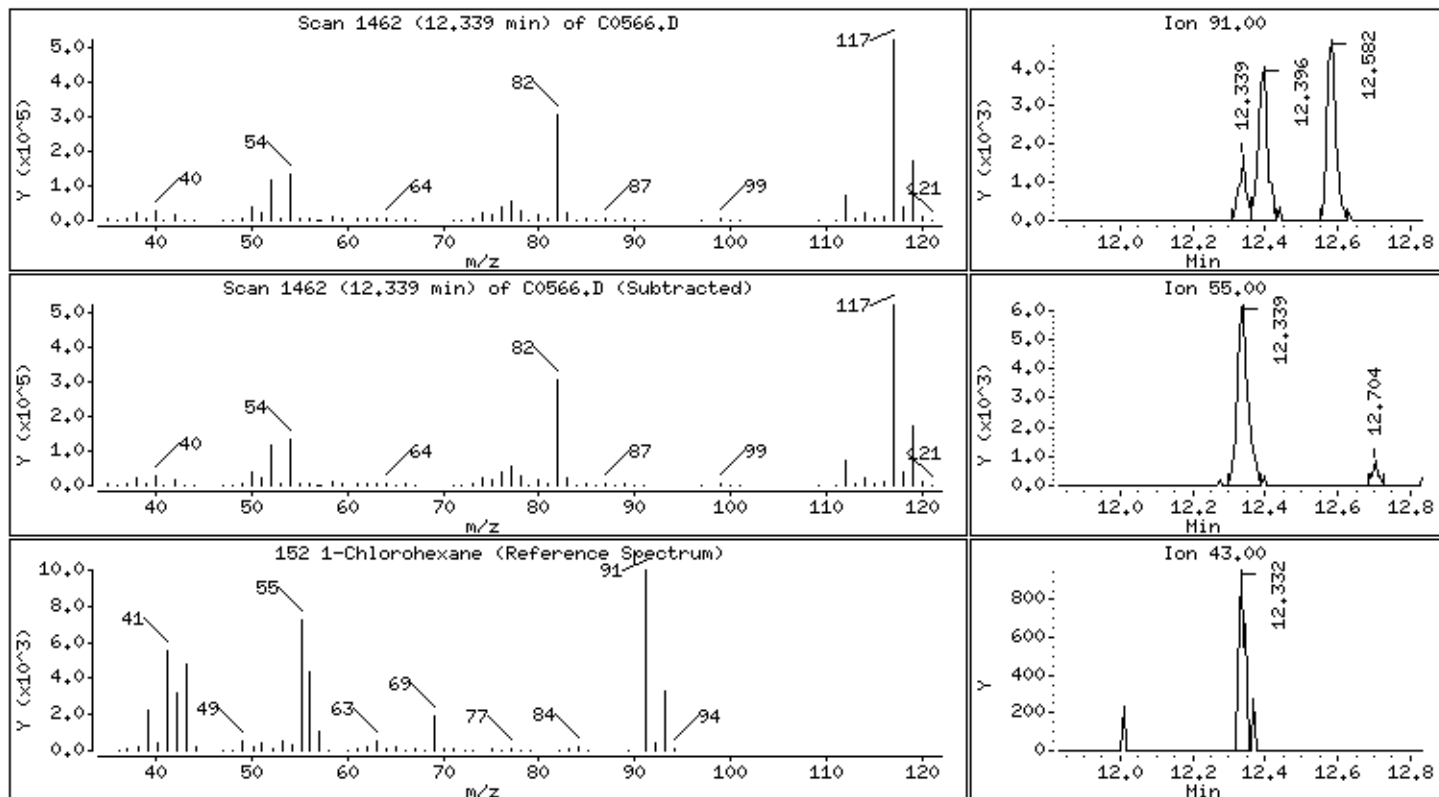
67 Chlorobenzene

Concentration: 247 ug/l



152 1-Chlorohexane

Concentration: 1.3 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

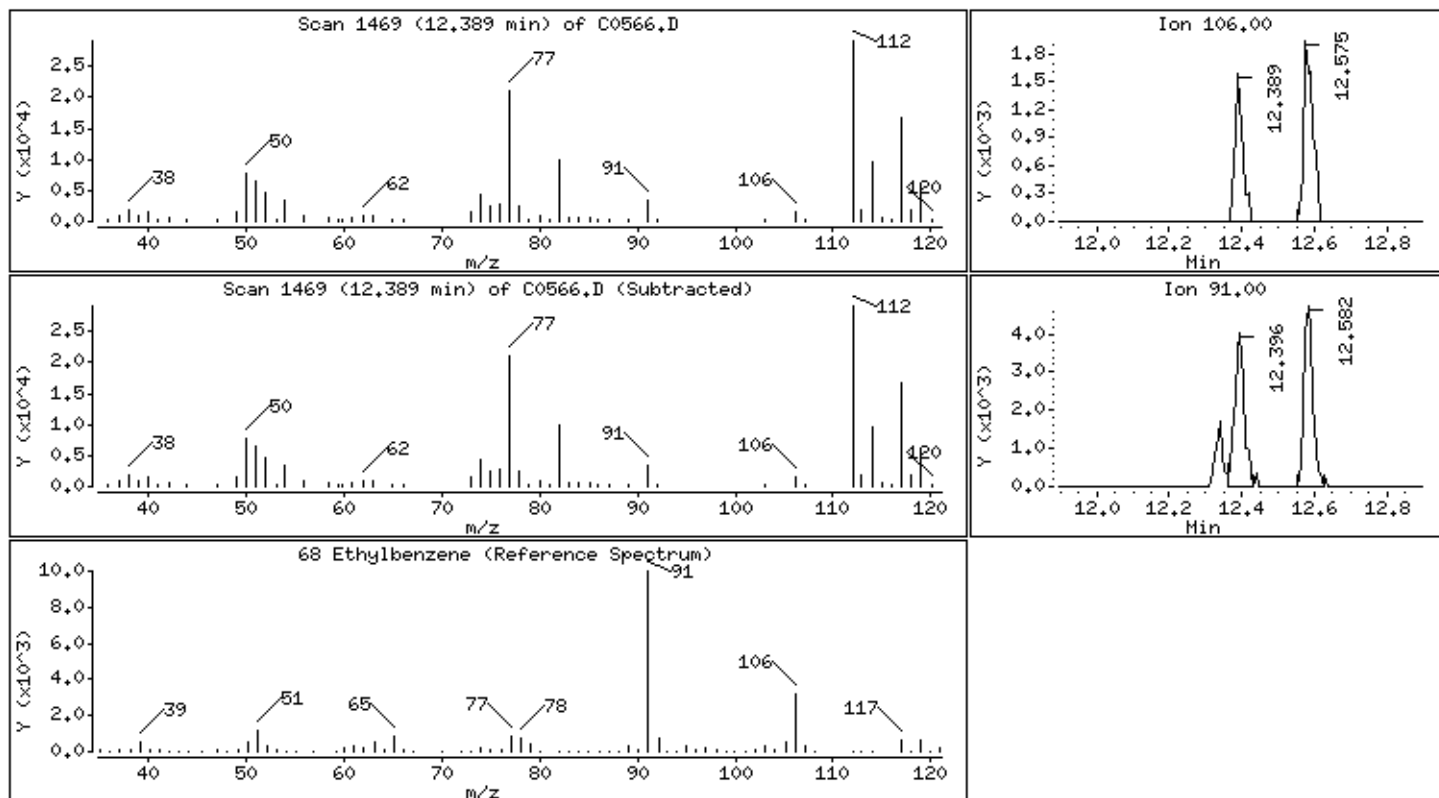
Client ID: OC9-MW14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13DL

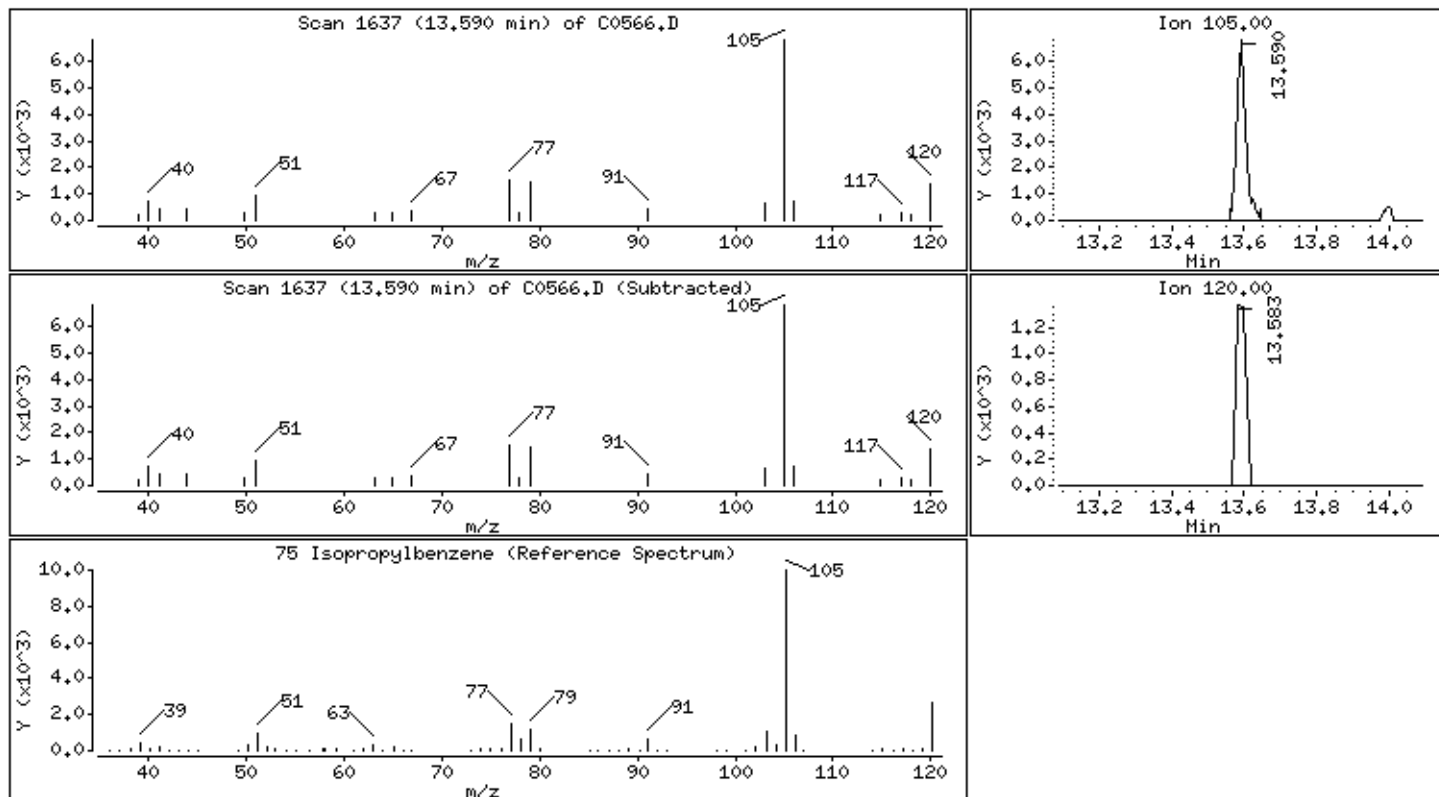
68 Ethylbenzene

Concentration: 1.4 ug/l



75 Isopropylbenzene

Concentration: 2.4 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

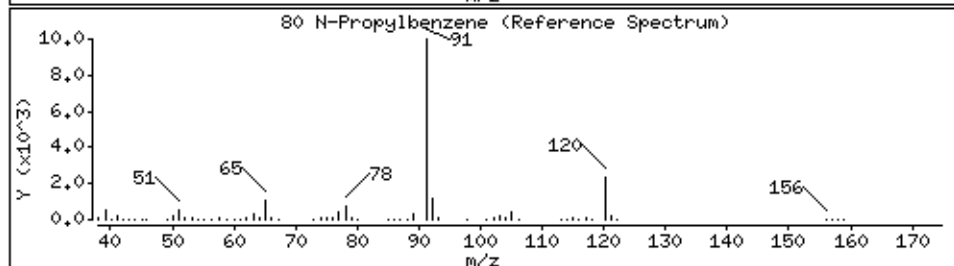
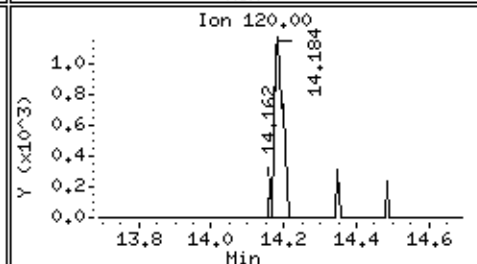
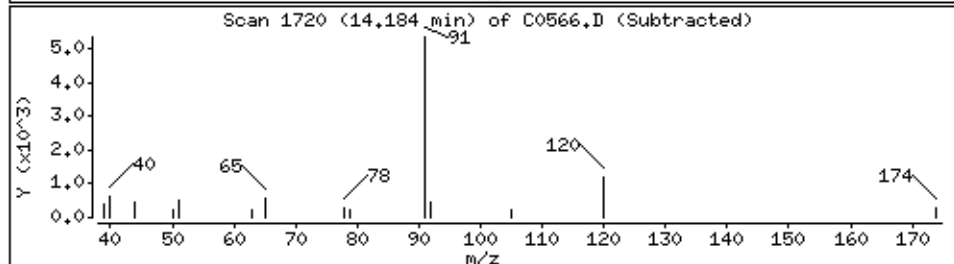
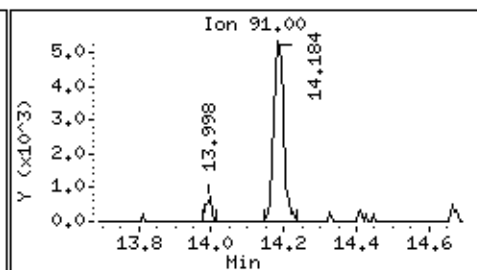
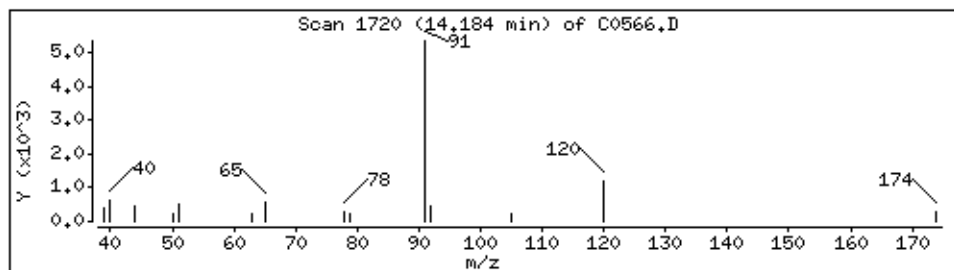
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13DL

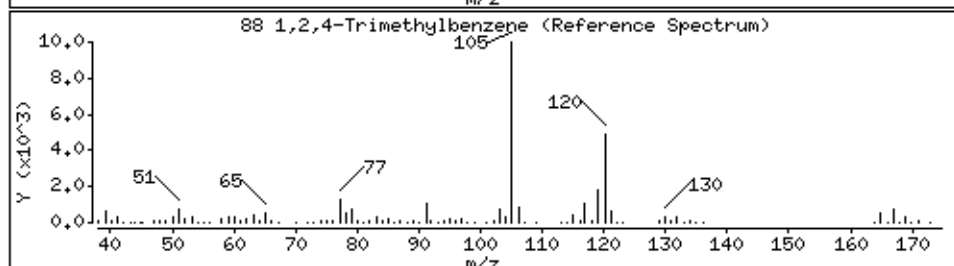
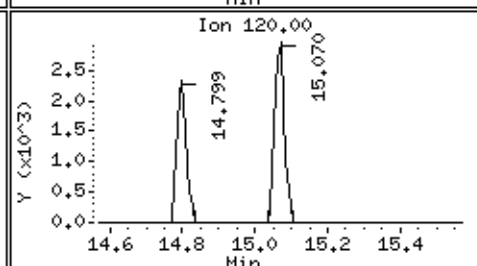
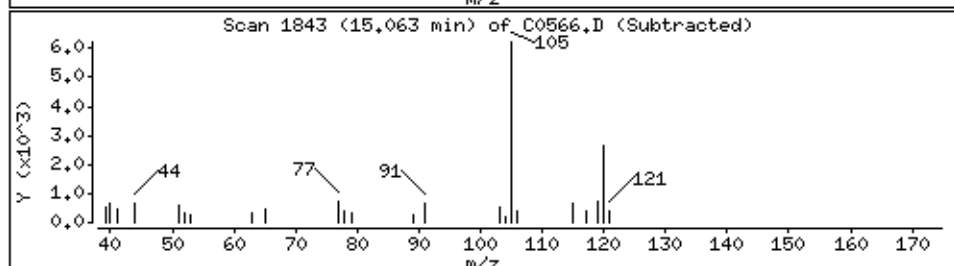
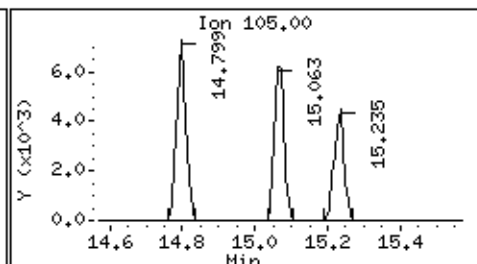
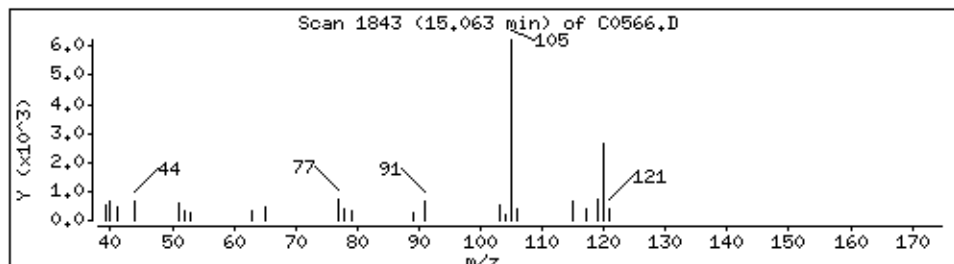
80 N-Propylbenzene

Concentration: 6.0 ug/l



88 1,2,4-Trimethylbenzene

Concentration: 2.5 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

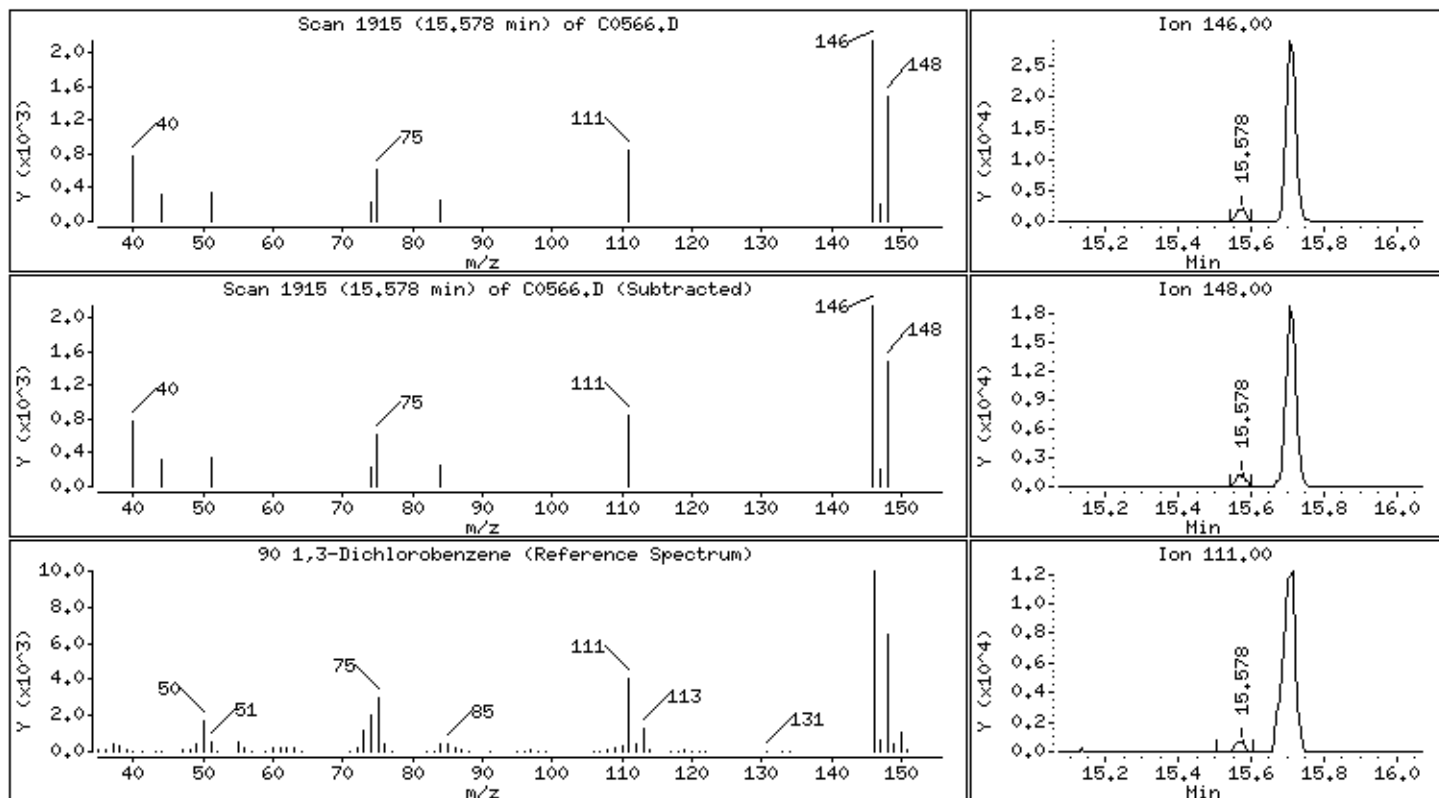
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13DL

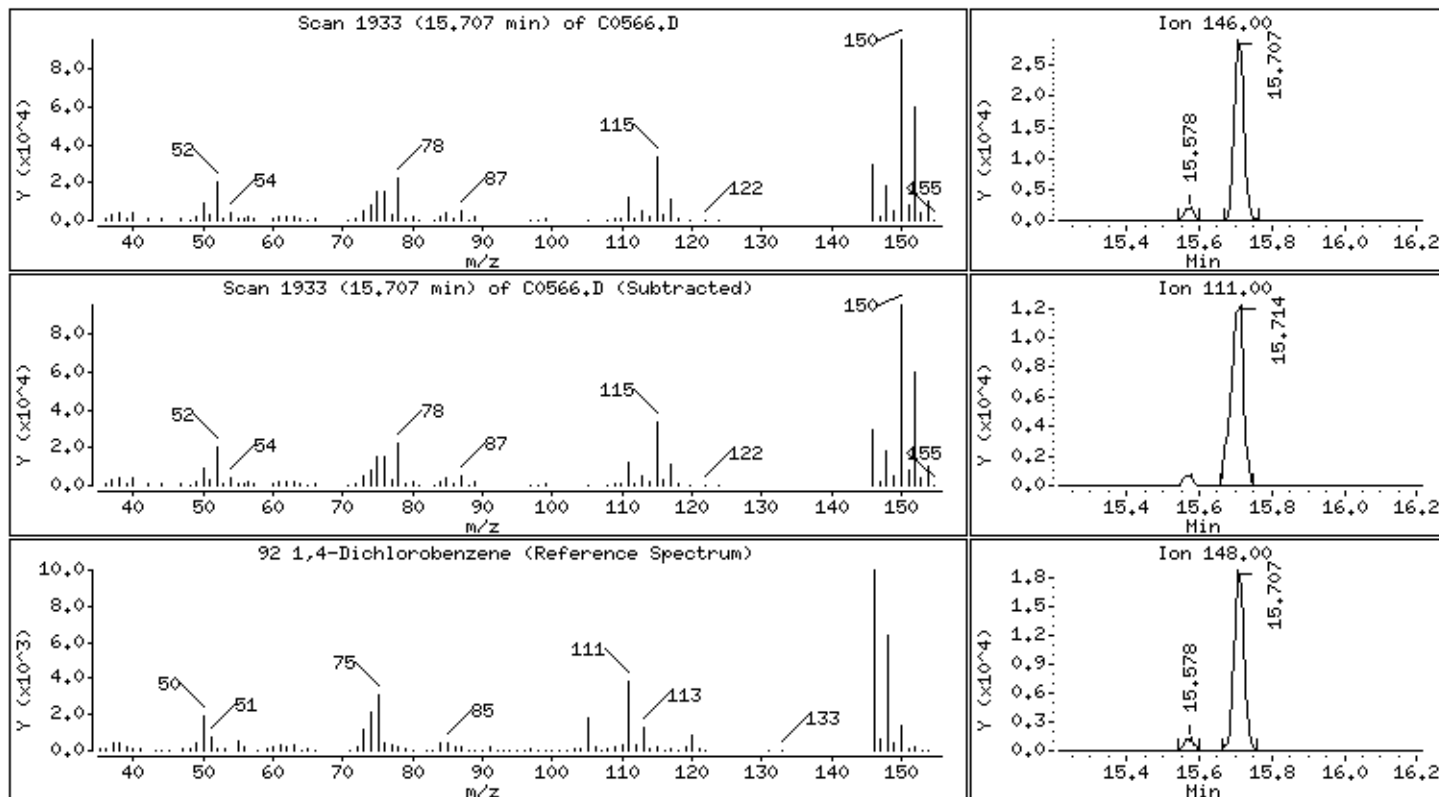
90 1,3-Dichlorobenzene

Concentration: 1,6 ug/l



92 1,4-Dichlorobenzene

Concentration: 20,1 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

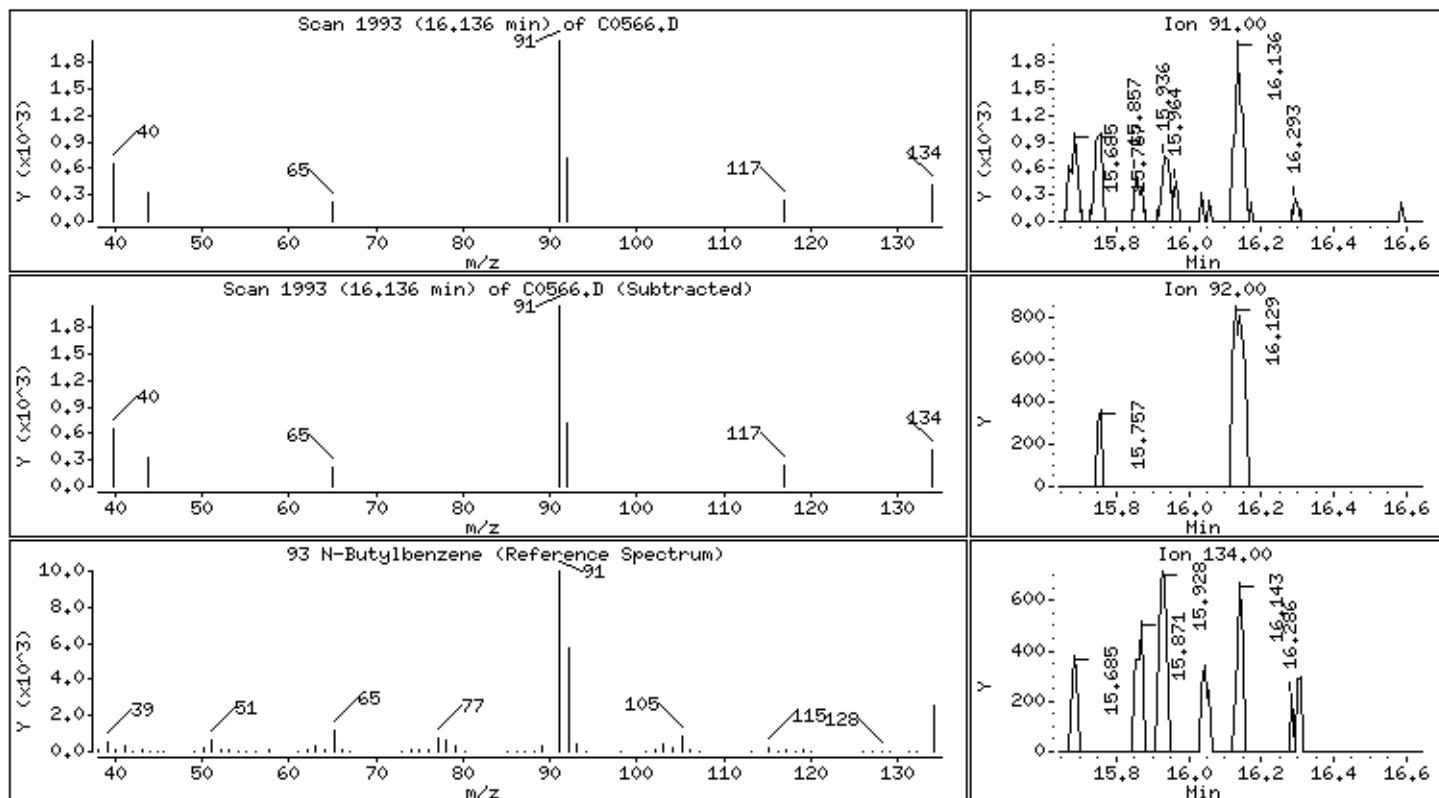
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13DL

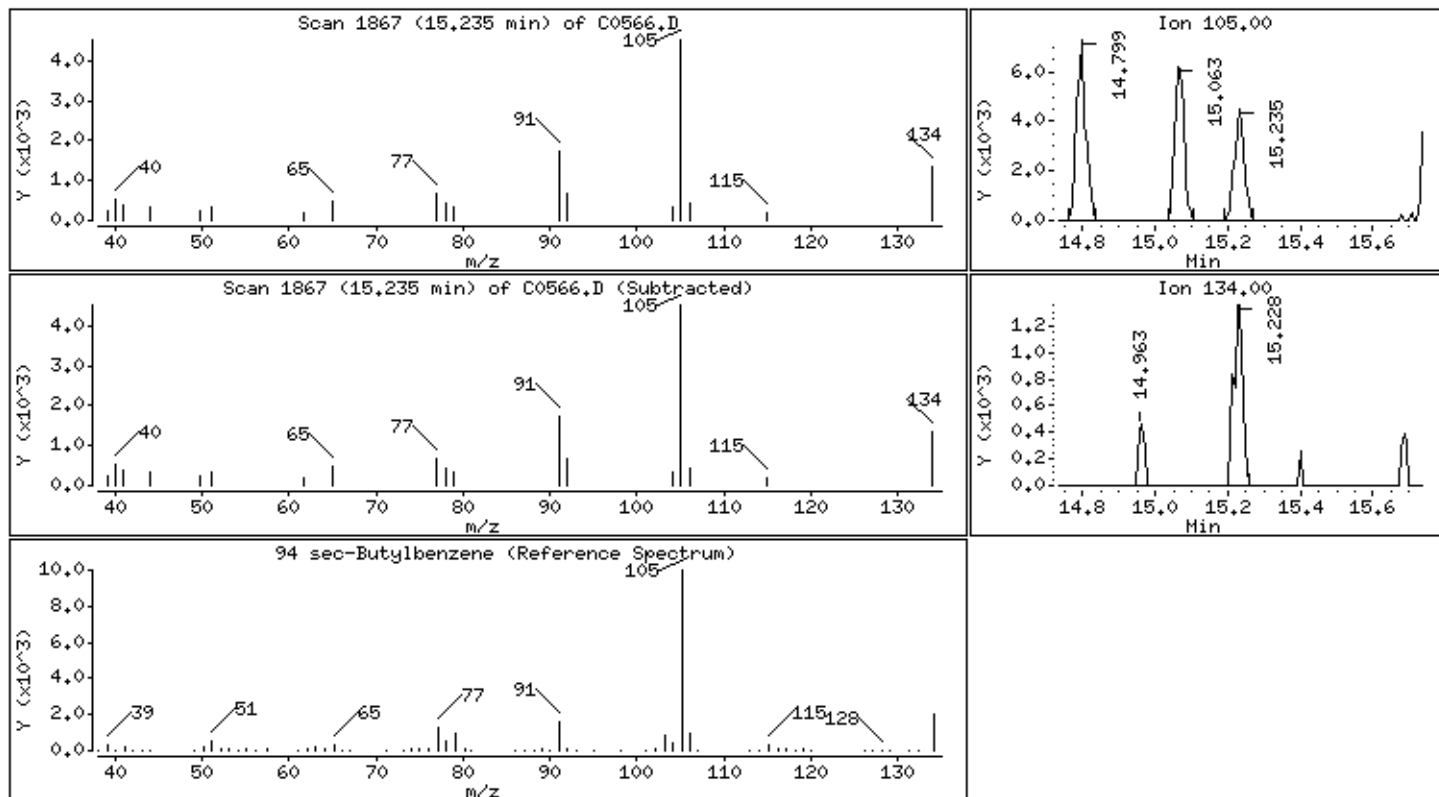
93 N-Butylbenzene

Concentration: 5.4 ug/l



94 sec-Butylbenzene

Concentration: 1.4 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

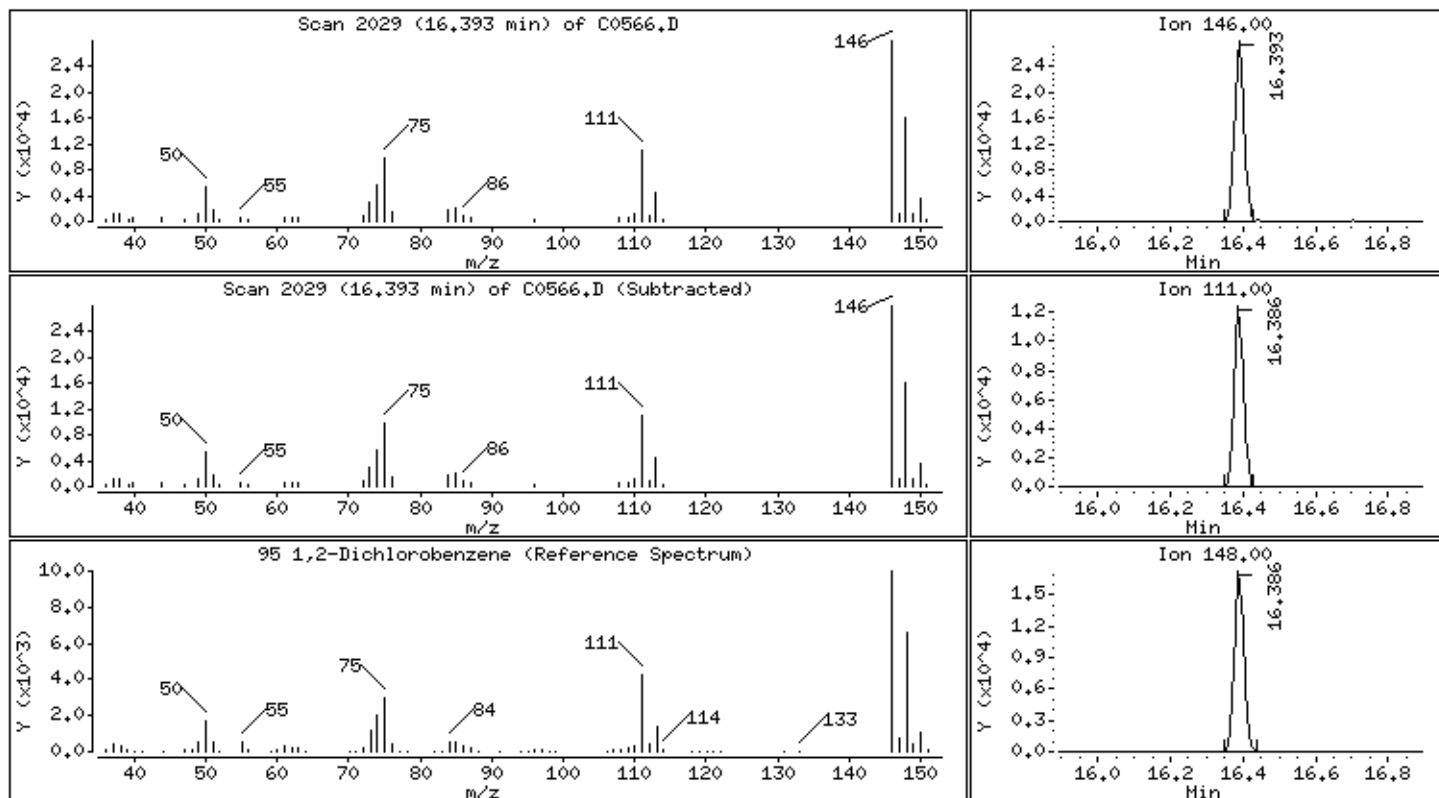
Client ID: OC9-MM14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13DL

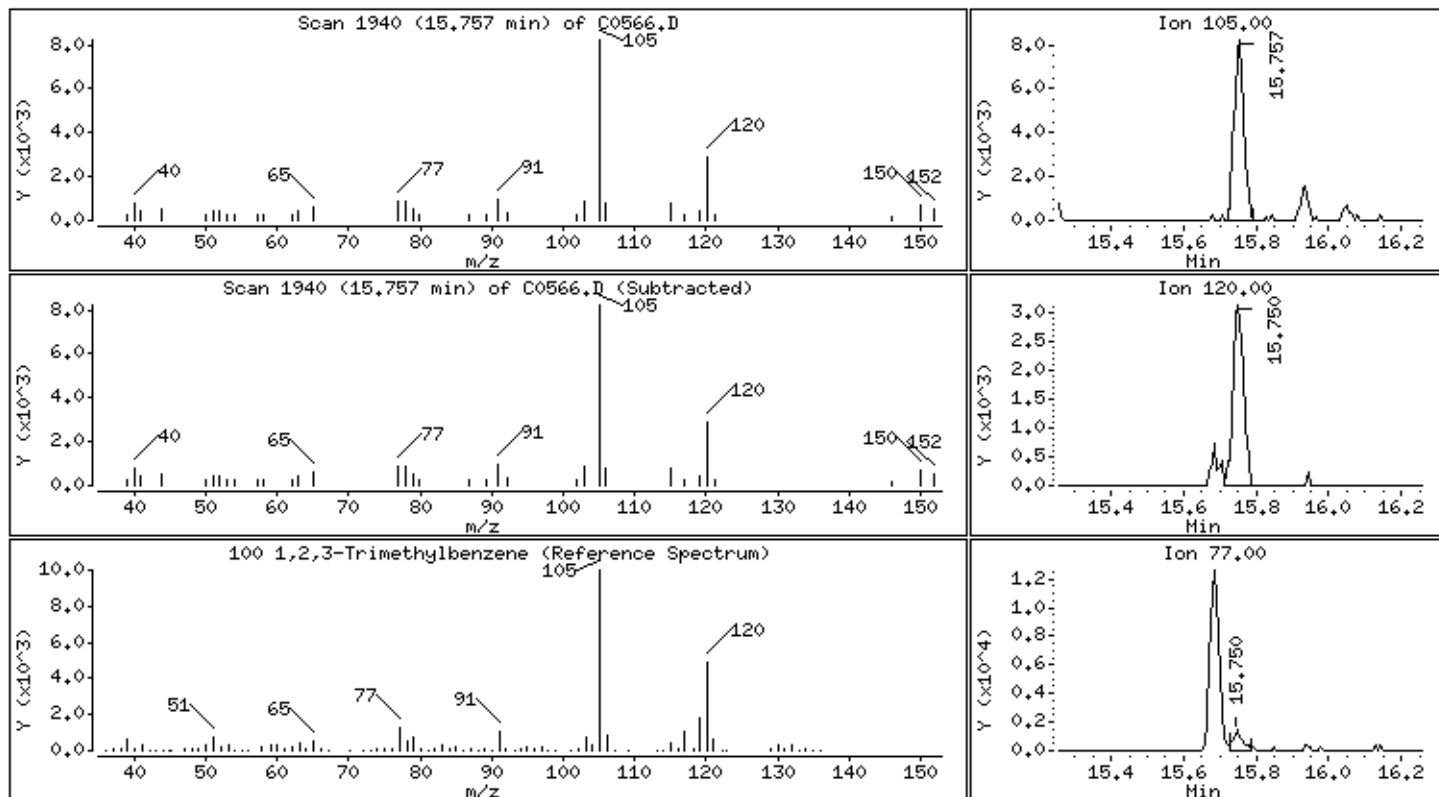
95 1,2-Dichlorobenzene

Concentration: 23.0 ug/l



100 1,2,3-Trimethylbenzene

Concentration: 3.5 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C042213,b\C0566.D

Date : 22-APR-2013 14:31

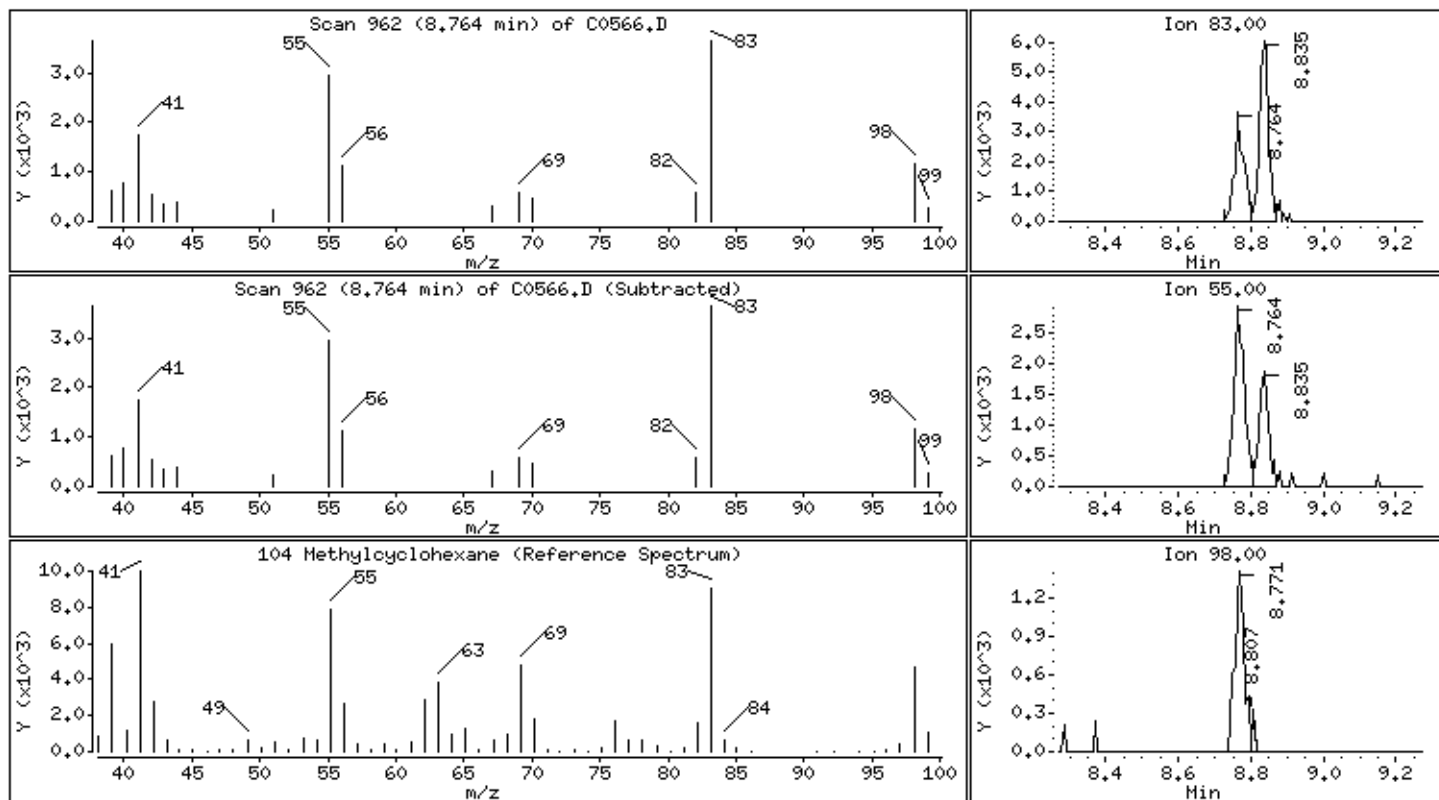
Client ID: OC9-MW14/DLTM040913

Instrument: gcms-c.i

Sample Info: SG2375-13DL

104 Methylcyclohexane

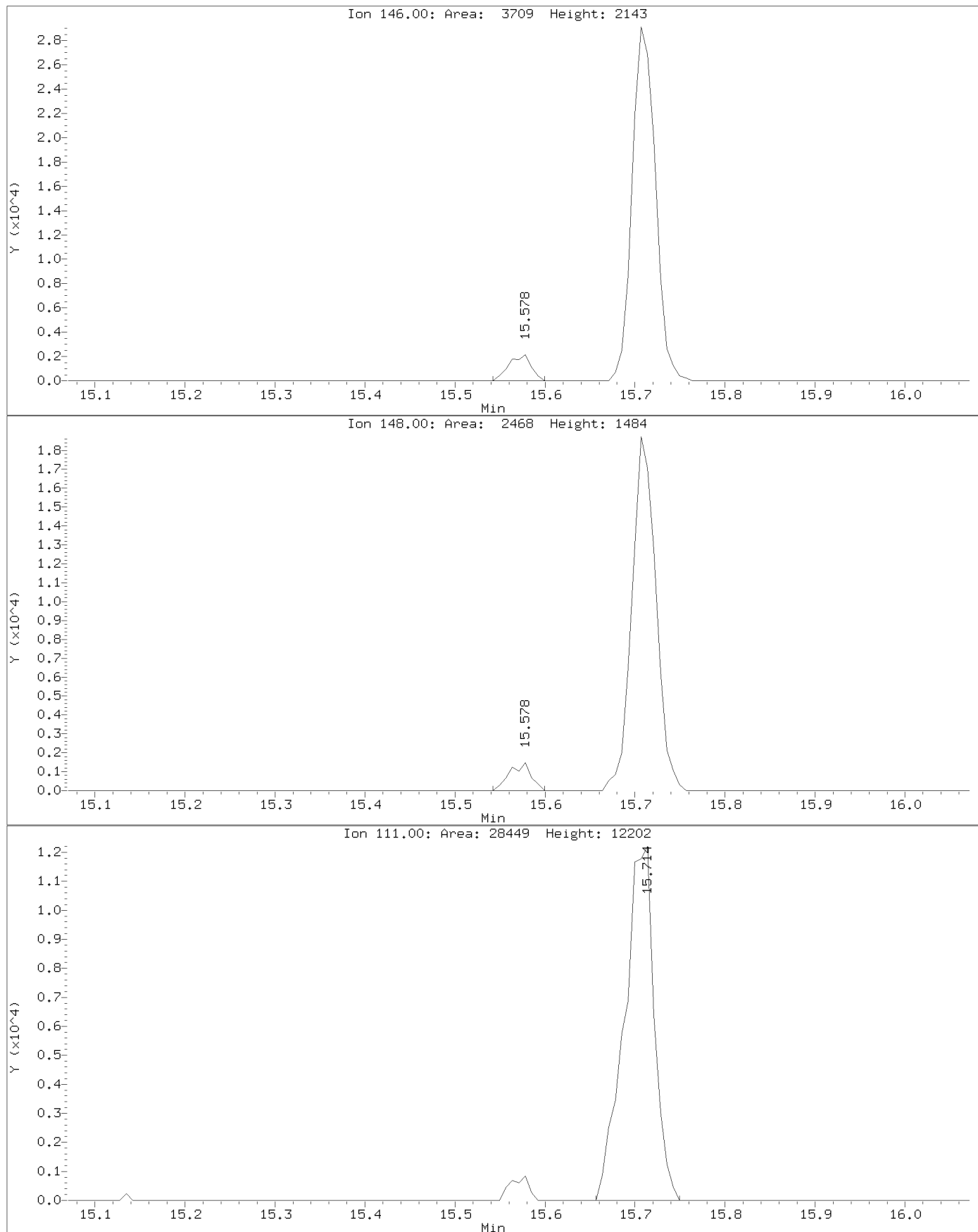
Concentration: 3.6 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\0042213.b\00566.D
Injection Date: 22-APR-2013 14:31
Instrument: gcms-c.i
Client Sample ID: 009-MW14/DLTM040913

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

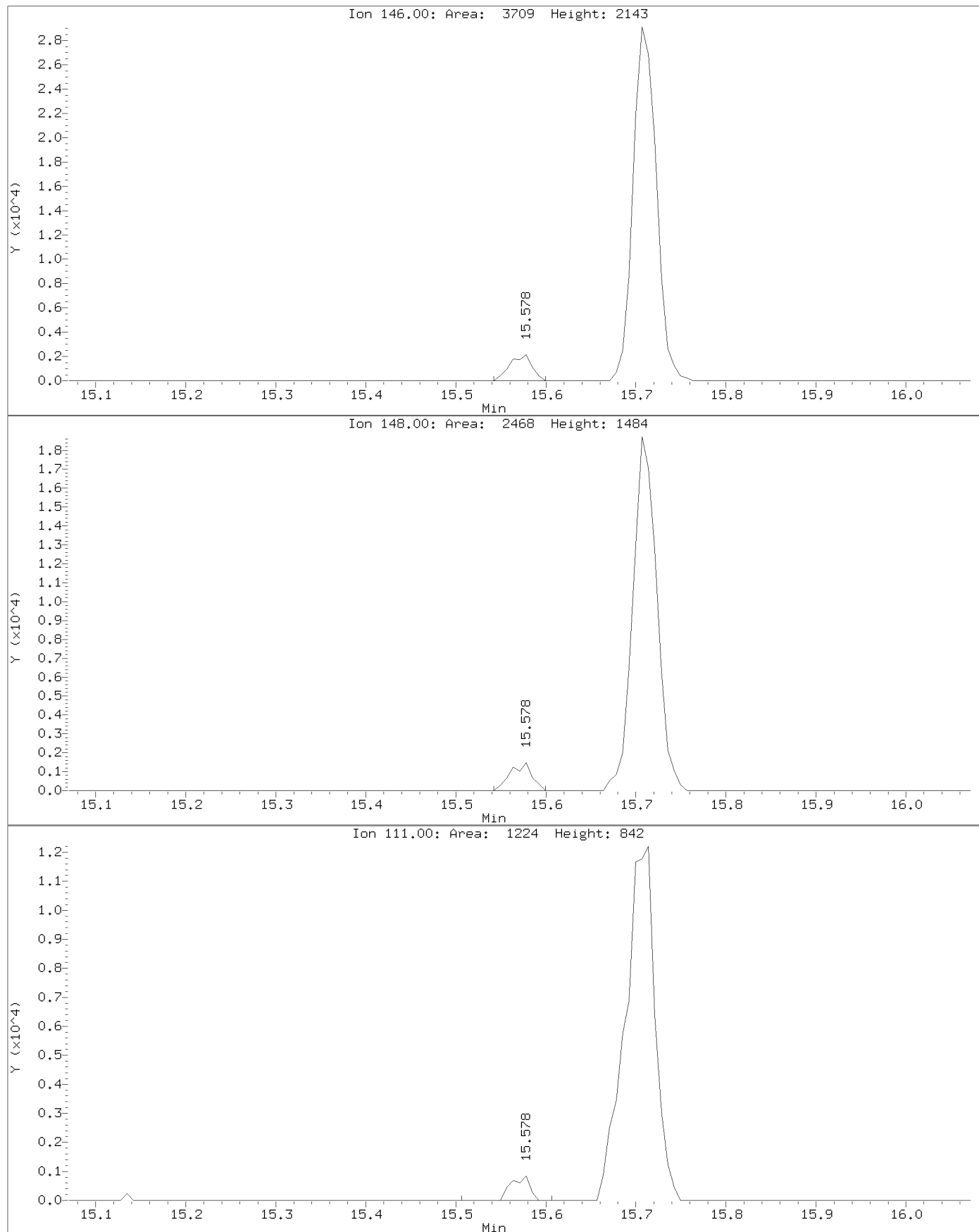
BEFORE MANUAL INTEGRATION



AFTER MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gcms-c.i\0042213.b\00566.D
Injection Date: 22-APR-2013 14:31
Instrument: gcms-c.i
Client Sample ID: 009-MW14/DLTM040913

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-14
Client ID: AOC9-MW18LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0567.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-14
Client ID: AOC9-MW18LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0567.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		103.	%					
Toluene-d8		96.8	%					
P-Bromofluorobenzene		96.0	%					
Dibromofluoromethane		94.6	%					

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Report Date: 23-Apr-2013 11:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C042213.b\C0567.D
Lab Smp Id: SG2375-14 Client Smp ID: AOC9-MW18LTM041013
Inj Date : 22-APR-2013 15:02 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : SG2375-14
Misc Info : WG123007, WG122628-4
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C042213.b\C826A67.m
Meth Date : 23-Apr-2013 11:14 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.12
Compound Sublist: all.sub

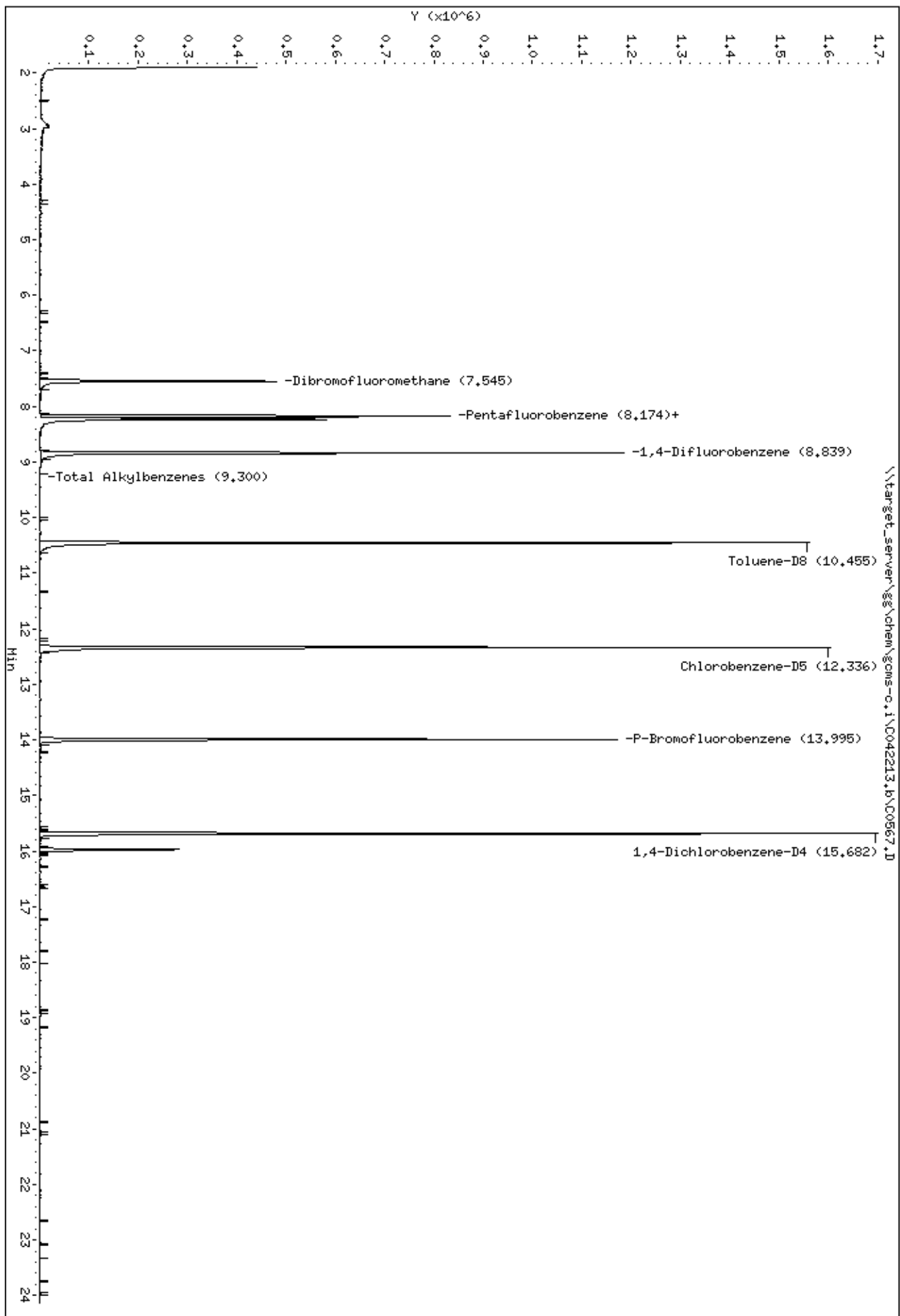
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/l)	FINAL (ug/l)	
\$ 37 Dibromofluoromethane	113	7.545	7.550	(0.923)	300807	47.2857	47.3	
* 42 Pentafluorobenzene	168	8.174	8.179	(1.000)	530855	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236	(1.007)	427419	51.4539	51.4	
* 49 1,4-Difluorobenzene	114	8.839	8.844	(1.000)	901754	50.0000		
\$ 55 Toluene-D8	98	10.455	10.453	(1.183)	956356	48.3808	48.4	
* 66 Chlorobenzene-D5	117	12.335	12.340	(1.000)	884963	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.994	13.999	(1.583)	426478	48.0135	48.0	
* 91 1,4-Dichlorobenzene-D4	152	15.682	15.694	(1.000)	480540	50.0000		

Data File: \\target_server\gs\chem\gms-c.i\CO42213.b\CO567.D
Date : 22-APR-2013 15:02
Client ID: AOC9-HM18LTH041013
Sample Info: SG2375-14

Instrument: gms-c.i



Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-15
Client ID: AOC9-MW19LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0551.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	UL	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	L	3.2	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene		2.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	J	0.55	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50

Report of Analytical Results

Client: Ecology and Environment, Inc
Lab ID: SG2375-15
Client ID: AOC9-MW19LTM04101
Project: Former Griffiss Air Force Bas
SDG: SG2375
Lab File ID: C0551.D

Sample Date: 10-APR-13
Received Date: 11-APR-13
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene		58	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene		3.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene		2.1	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		112.	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		99.2	%					
Dibromofluoromethane		93.9	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0551.D
 Report Date: 23-Apr-2013 11:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041913.b\C0551.D
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 Inj Date : 19-APR-2013 18:34 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : SG2375-15
 Misc Info : WG122901,WG122628-4
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041913.b\C826A67.m
 Meth Date : 23-Apr-2013 11:05 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.12
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

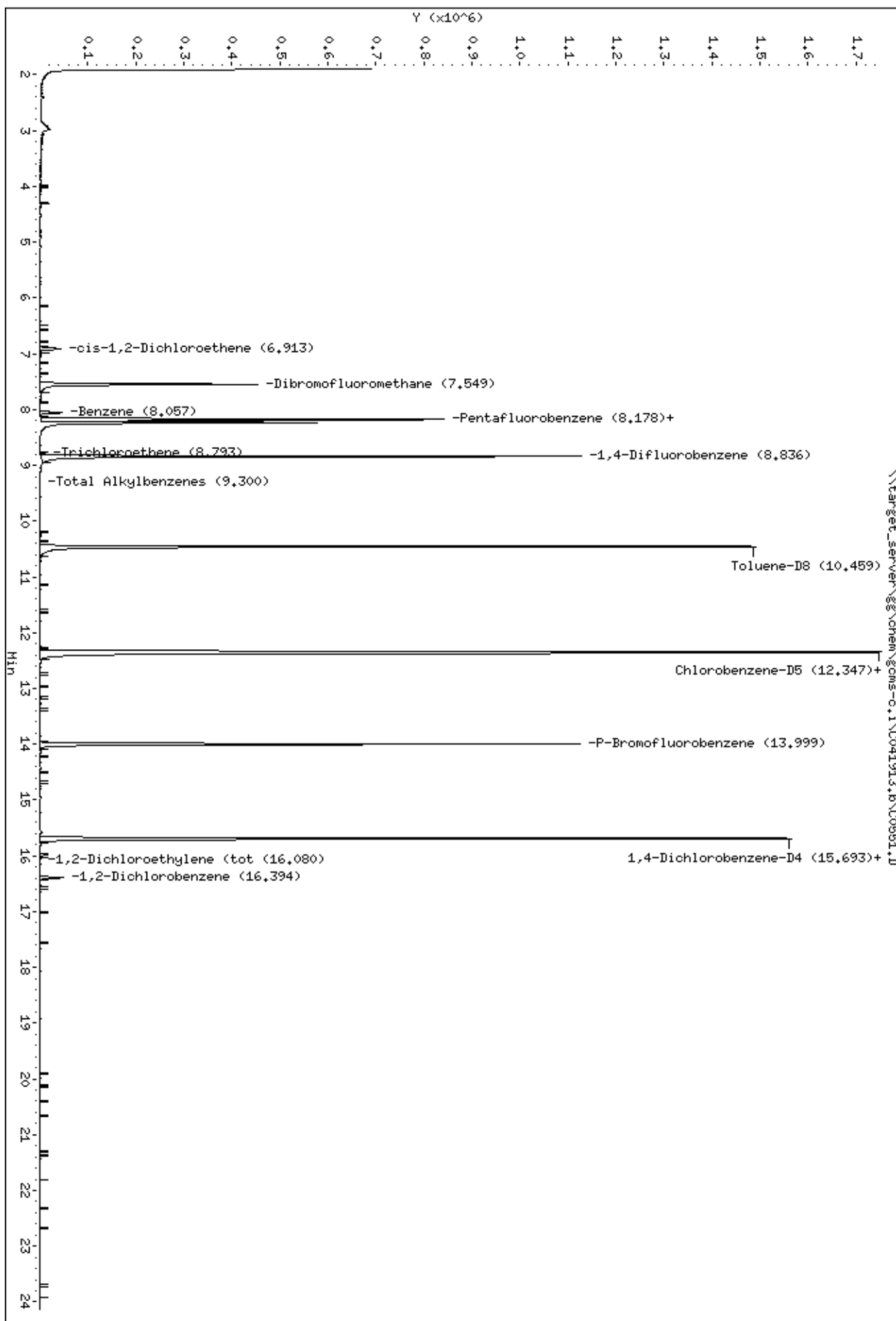
Compounds	QUANT SIG					CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	18951	3.15970	3.2	
M 30 1,2-Dichloroethylene (total)	96				18951	3.15970	3.2	
\$ 37 Dibromofluoromethane	113	7.549	7.550	(0.923)	281289	46.9718	47.0	
41 Benzene	78	8.056	8.057	(0.911)	39931	2.04494	2.0	
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	499727	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.235	8.236	(1.007)	437314	55.9243	55.9	
48 Trichloroethene	95	8.793	8.794	(0.994)	2879	0.55006	0.55(a)	
* 49 1,4-Difluorobenzene	114	8.843	8.844	(1.000)	828455	50.0000		
\$ 55 Toluene-D8	98	10.459	10.453	(1.183)	917531	50.5235	50.5	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	825003	50.0000		
67 Chlorobenzene	112	12.361	12.362	(1.002)	731180	57.4611	57.5	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.583)	404936	49.6218	49.6	
* 91 1,4-Dichlorobenzene-D4	152	15.693	15.694	(1.000)	429965	50.0000		
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.001)	33256	2.96514	3.0	
95 1,2-Dichlorobenzene	146	16.401	16.393	(1.045)	19339	2.08110	2.1	

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\gms-c.i\0041913.b\00561.D
Date: 19-APR-2013 18:34
Client ID: AOC9-HM19LTH041013
Sample Info: SG2375-15

Instrument: gms-c.i



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0551.D

Date : 19-APR-2013 18:34

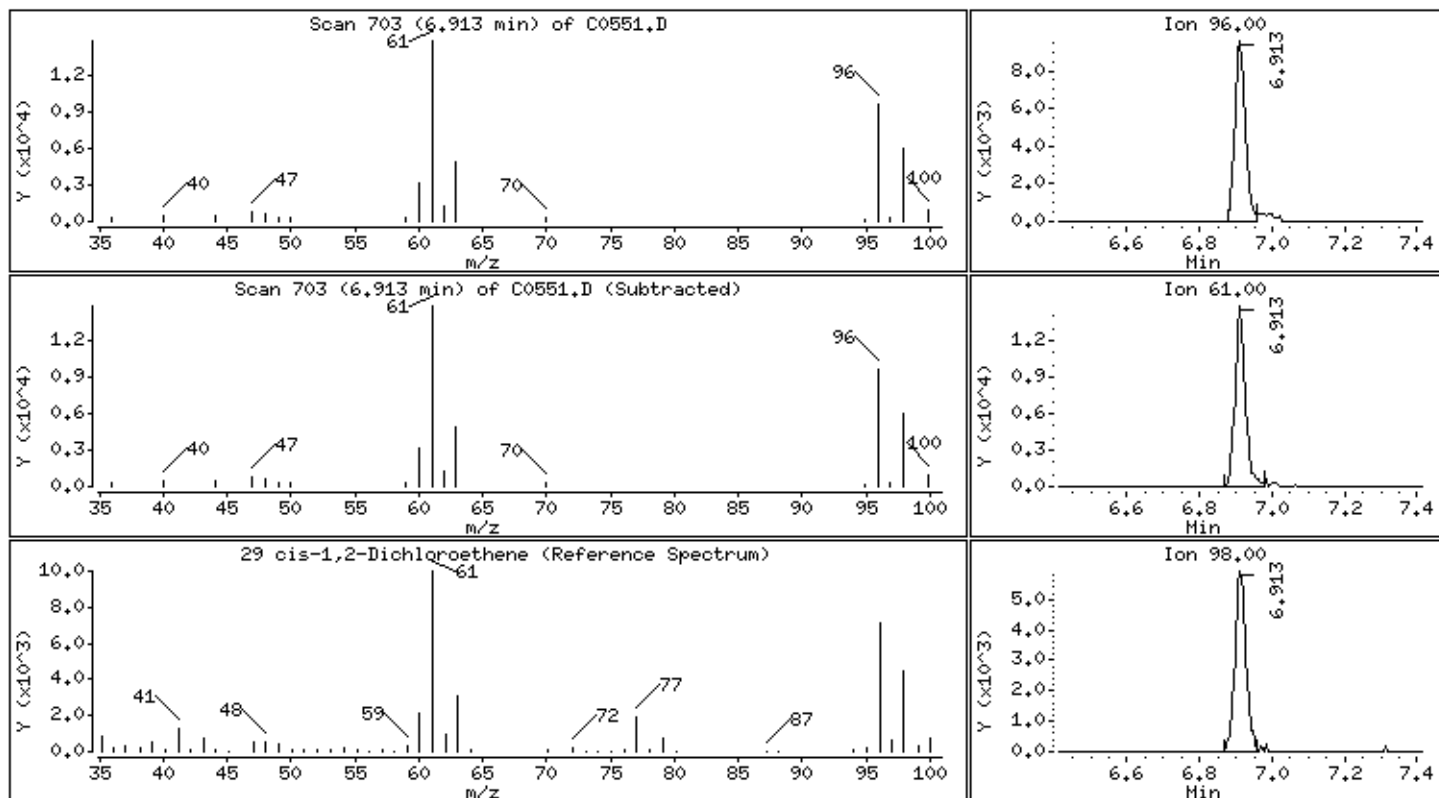
Client ID: AOC9-MW19LTH041013

Instrument: gcms-c.i

Sample Info: SG2375-15

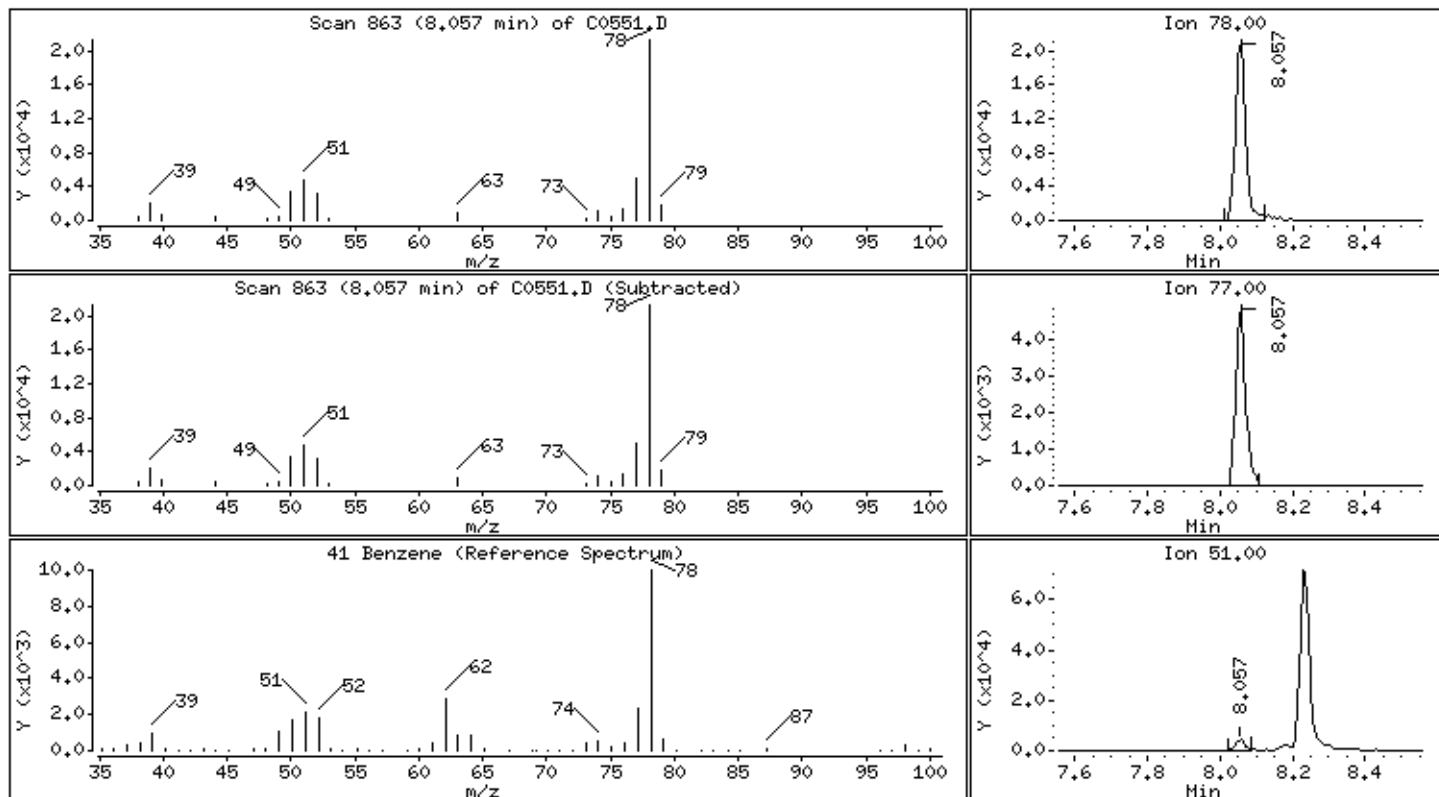
29 cis-1,2-Dichloroethene

Concentration: 3.2 ug/l



41 Benzene

Concentration: 2.0 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0551.D

Date : 19-APR-2013 18:34

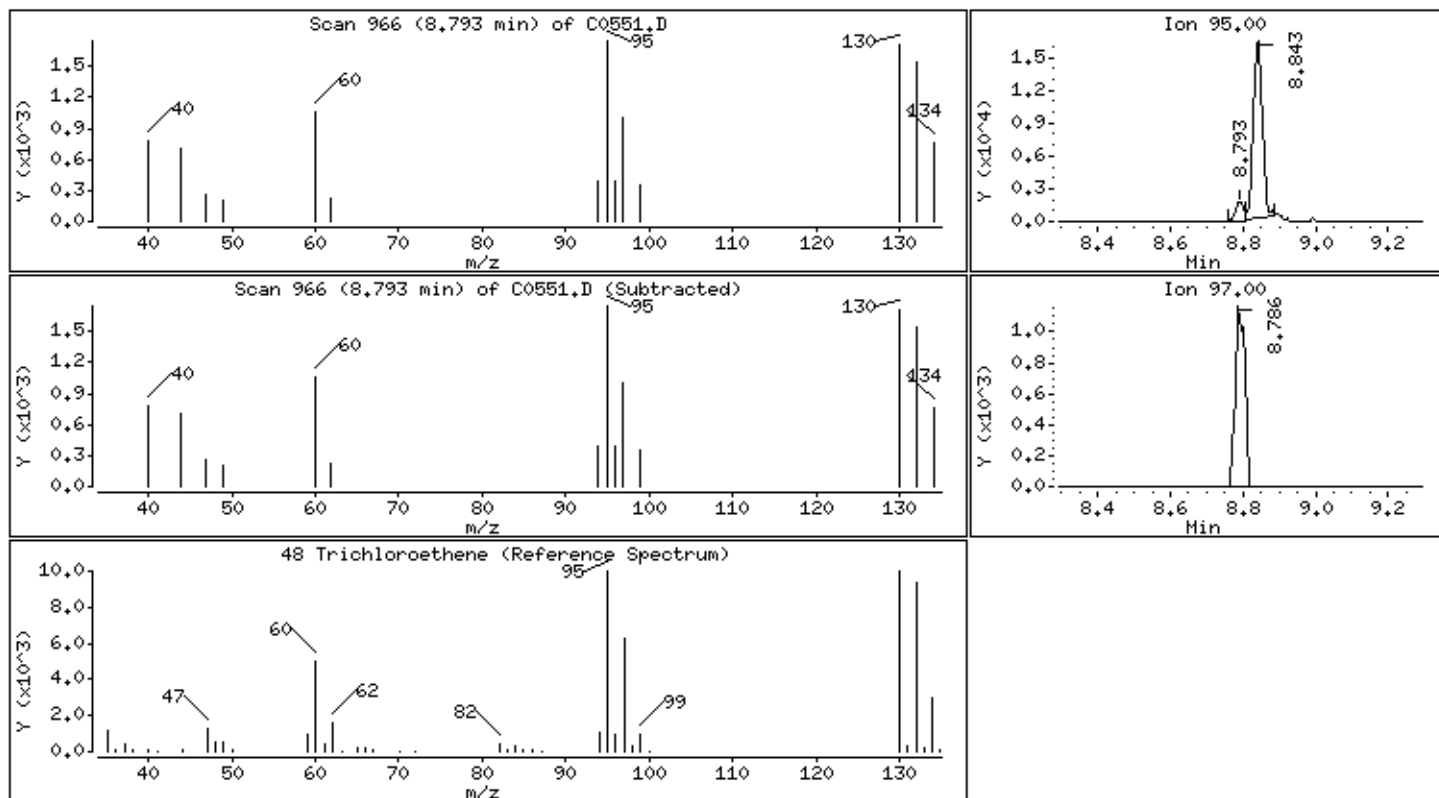
Client ID: AOC9-MW19LTH041013

Instrument: gcms-c.i

Sample Info: SG2375-15

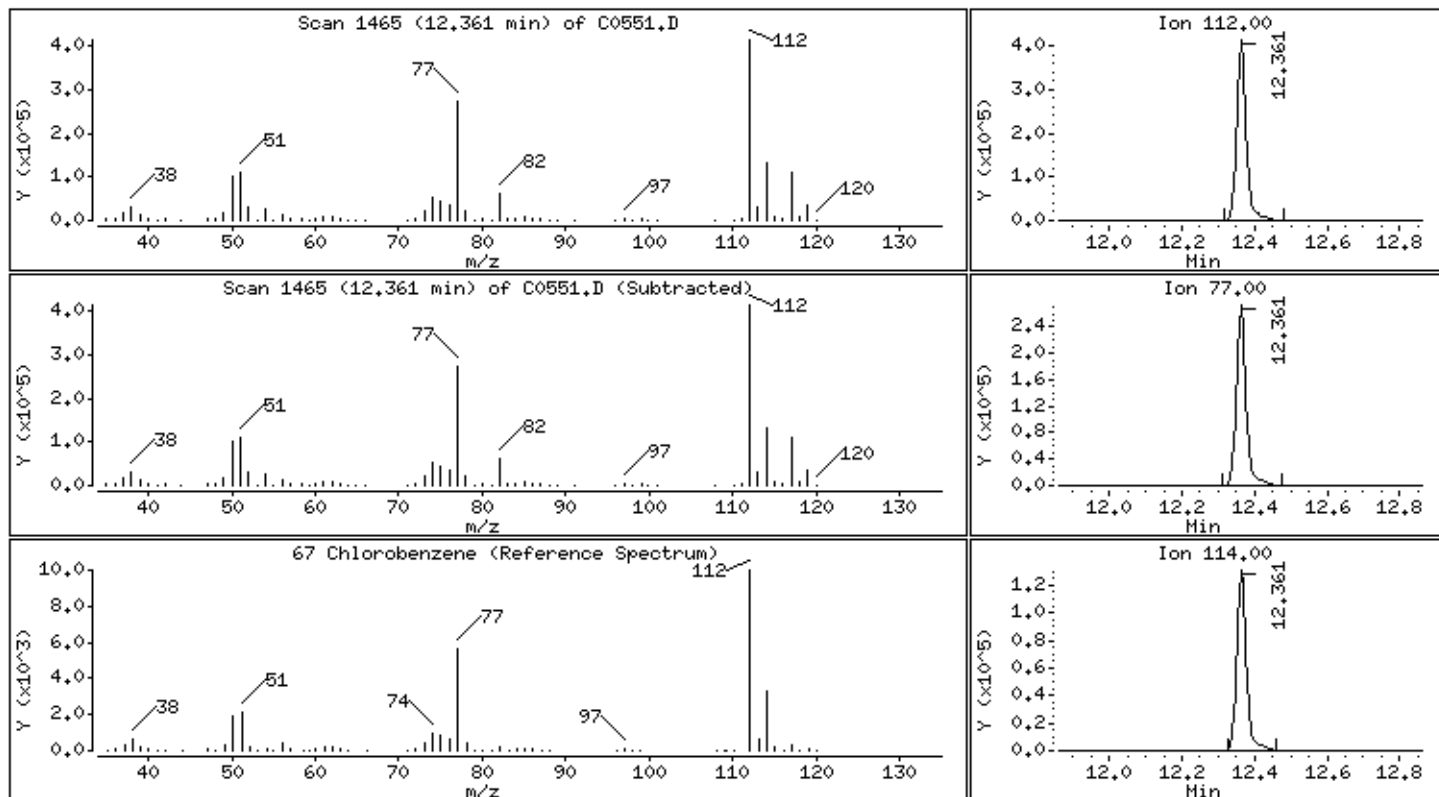
48 Trichloroethene

Concentration: 0.55 ug/l



67 Chlorobenzene

Concentration: 57.5 ug/l



Data File: \\target_server\gg\chem\gcms-c.i\C041913,b\C0551.D

Date : 19-APR-2013 18:34

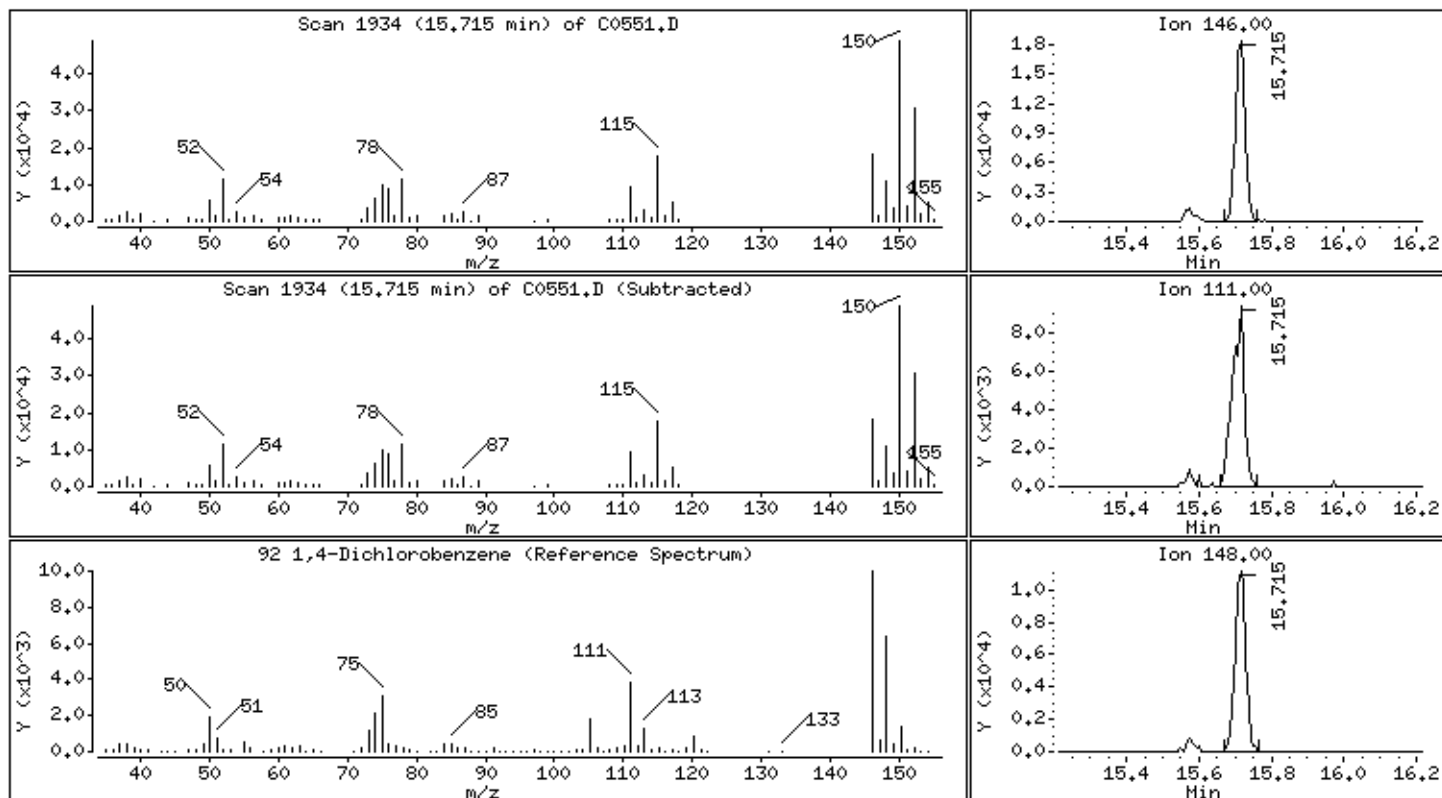
Client ID: AOC9-MW19LTH041013

Instrument: gcms-c.i

Sample Info: SG2375-15

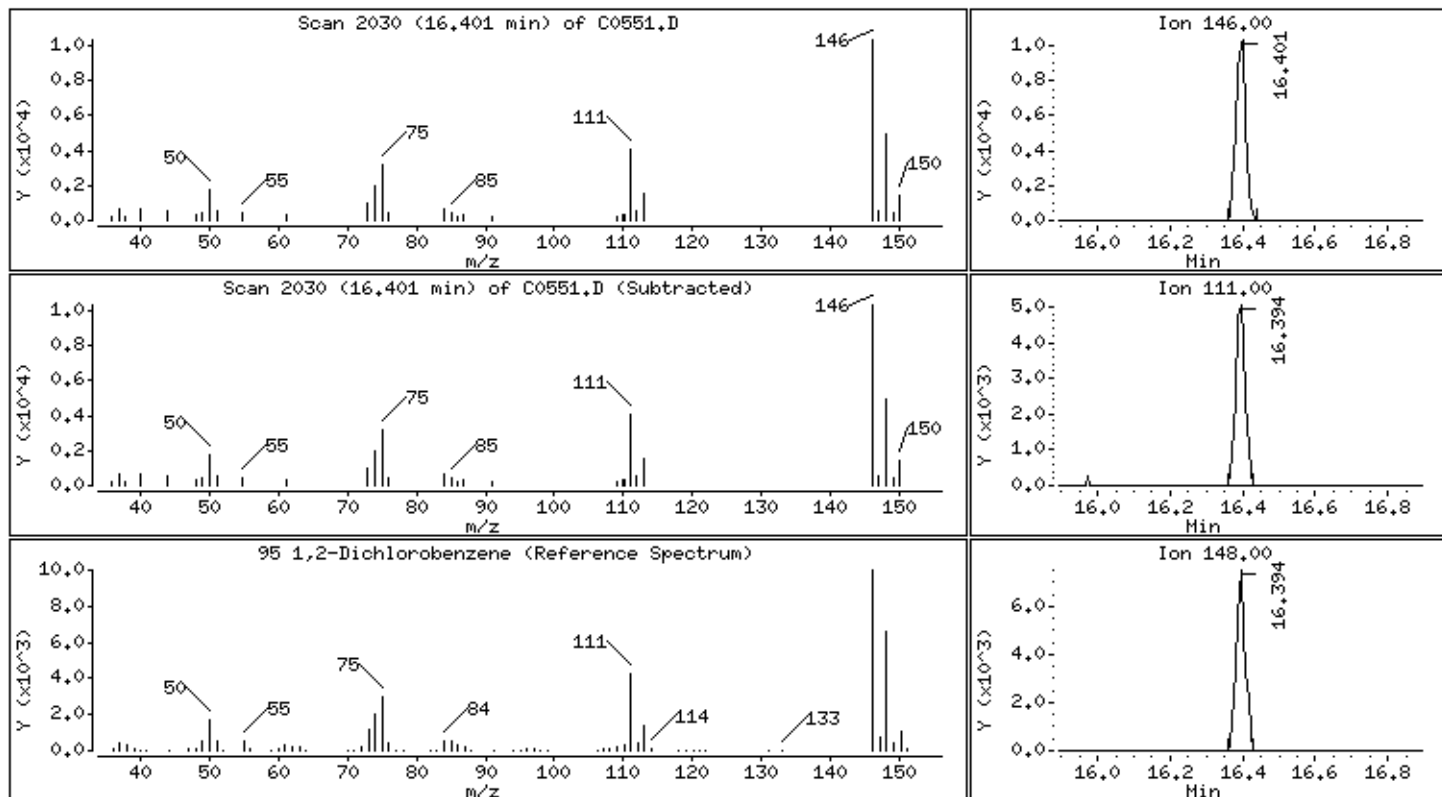
92 1,4-Dichlorobenzene

Concentration: 3.0 ug/l



95 1,2-Dichlorobenzene

Concentration: 2.1 ug/l



Standards Data Section

Form 6

Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SG2375
Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-C
Lab File IDs : C0391.D C0390.D C0394.D **Column ID:**
 C0399.D C0396.D C0397.D **Calibration Date(s):** 11-APR-13 12:00
 11-APR-13 17:16

	1.0000	5.0000	20.0000	50.0000	100.0000	200.0000	New	b	m1	m2	%RSD	Max %RSD	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv						
Dichlorodifluoromethane	9598	33504	116738	291058	571810	1094713	LNR	-0.05219	0.38873		0.99816	0.99000	O
Chloromethane	17930	55335	201355	488606	922346	1961562	LNR	-0.02401	0.68618		0.99971	0.99000	O
Vinyl chloride	12546	43472	148525	375464	726640	1397113	LNR	-0.05398	0.49560		0.99828	0.99000	O
Bromomethane	0.38174	0.35116	0.32315	0.35923	0.39678	0.35485	AVG		0.36115		7.09213	15.00000	O
Chloroethane	7002	25023	69686	134445	256352	491295	LNR	-0.11543	0.17165		0.99649	0.99000	O
Trichlorofluoromethane	19220	67796	231507	583211	1262480	2140553	QUA	0.02728	0.86313	0.14446	0.99637	0.99000	O
1,1-Dichloroethene	0.57265	0.53288	0.48582	0.46068	0.45437	0.46326	AVG		0.49494		9.64150	15.00000	O
Carbon Disulfide	25240	110162	427032	1151100	2117026	4084082	LNR	-0.05162	1.45259		0.99781	0.99000	O
Freon-113	0.33719	0.30103	0.26713	0.26297	0.25037	0.25142	AVG		0.27835		12.28535	15.00000	O
Methylene Chloride	26372	59800	183781	426607	802755	1595497	LNR	-0.07344	0.55856		0.99912	0.99000	O
Acetone	18614	74916	298210	823737	1638209	3063217	LNR	-0.18987	0.21978		0.99688	0.99000	O
trans-1,2-Dichloroethene	0.62779	0.61460	0.56821	0.54120	0.52063	0.50524	AVG		0.56294		8.87961	15.00000	O
Methyl tert-butyl ether	1.42272	1.49122	1.47103	1.37385	1.35653	1.21454	AVG		1.38831		7.20526	15.00000	O
1,1-Dichloroethane	1.20106	1.16934	1.08709	0.99449	0.99999	0.92291	AVG		1.06248		10.24455	15.00000	O
cis-1,2-Dichloroethene	0.63997	0.64995	0.60475	0.57729	0.57139	0.55724	AVG		0.60010		6.35758	15.00000	O
Bromochloromethane	0.28169	0.27371	0.25594	0.23009	0.21148	0.21484	AVG		0.24463		12.32474	15.00000	O
Chloroform	1.27455	1.21099	1.09536	0.99706	0.99903	0.93494	AVG		1.08532		12.33100	15.00000	O
Carbon Tetrachloride	0.38832	0.39906	0.36451	0.33990	0.37844	0.34466	AVG		0.36915		6.43947	15.00000	O
1,1,1-Trichloroethane	0.98801	1.00610	0.95282	0.89612	0.90598	0.82948	AVG		0.92975		7.05374	15.00000	O
2-Butanone	0.33600	0.33482	0.32495	0.30559	0.30789	0.26612	AVG		0.31256		8.37455	15.00000	O
Benzene	1.30199	1.27911	1.23647	1.15381	1.12560	0.97405	AVG		1.17850		10.31858	15.00000	O
Cyclohexane	0.90587	1.00414	0.93519	0.88093	0.87996	0.75764	AVG		0.89396		9.07797	15.00000	O
1,2-Dichloroethane	0.51234	0.53594	0.47867	0.43275	0.43687	0.40487	AVG		0.46691		10.87282	15.00000	O
Trichloroethene	0.35886	0.34850	0.31253	0.29916	0.29636	0.27991	AVG		0.31589		9.88772	15.00000	O
1,2-Dichloropropane	0.32911	0.32774	0.31998	0.30216	0.30472	0.28049	AVG		0.31070		5.99824	15.00000	O
Bromodichloromethane	0.43271	0.45604	0.46485	0.42943	0.44322	0.41241	AVG		0.43978		4.32783	15.00000	O
cis-1,3-dichloropropene	0.48125	0.50963	0.55789	0.52698	0.53150	0.49315	AVG		0.51673		5.39311	15.00000	O
1,4-Dioxane	0.00558	0.00520	0.00451	0.00468	0.00400	0.00393	AVG		0.00465		14.02967	15.00000	O
Toluene	0.79696	0.79584	0.75399	0.69895	0.70786	0.63801	AVG		0.73194		8.48595	15.00000	O
4-methyl-2-pentanone	0.31323	0.33289	0.33972	0.30298	0.28058	0.21929	AVG		0.29811		14.78498	15.00000	O
Tetrachloroethene	0.21788	0.24565	0.23228	0.23346	0.24073	0.24306	AVG		0.23551		4.29883	15.00000	O
trans-1,3-Dichloropropene	0.39450	0.46467	0.47879	0.45653	0.47209	0.44338	AVG		0.45166		6.77515	15.00000	O
1,1,2-Trichloroethane	0.26341	0.24418	0.24639	0.23254	0.23481	0.22258	AVG		0.24065		5.84705	15.00000	O
Dibromochloromethane	0.24784	0.28947	0.31572	0.30701	0.32992	0.31192	AVG		0.30031		9.61032	15.00000	O
1,2-Dibromoethane	0.32658	0.31686	0.30549	0.29479	0.30403	0.29636	AVG		0.30735		3.99359	15.00000	O
2-Hexanone	0.22552	0.25047	0.25387	0.23549	0.22368	0.17874	AVG		0.22796		11.90296	15.00000	O
Chlorobenzene	0.85867	0.82460	0.79483	0.74416	0.73995	0.66497	AVG		0.77120		8.99386	15.00000	O

Form 6

Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SG2375
Project : Former Griffiss Air Force Base, AOC 9 **Instrument ID:** GCMS-C
Lab File IDs : C0391.D C0390.D C0394.D **Column ID:**
 C0399.D C0396.D C0397.D **Calibration Date(s):** 11-APR-13 12:00
 11-APR-13 17:16

Ethylbenzene	0.44310	0.45733	0.45983	0.43368	0.42896	0.40571	AVG		0.43810		4.58669	15.00000	O
m+p-Xylenes	0.54423	0.55007	0.54695	0.51414	0.50808	0.44531	AVG		0.51813		7.69635	15.00000	O
o-Xylene	0.47192	0.50444	0.52126	0.49914	0.48919	0.46425	AVG		0.49170		4.30748	15.00000	O
Styrene	0.81240	0.91061	0.93404	0.89339	0.87615	0.77952	AVG		0.86769		6.87769	15.00000	O
Bromoform	0.15311	0.18526	0.21010	0.21699	0.23430	0.23234	AVG		0.20535		15.17830	15.00000	W
Isopropylbenzene	2.45245	2.62233	2.63916	2.38531	2.31655	1.91315	AVG		2.38816		11.12192	15.00000	O
N-Propylbenzene	32934	202025	770277	1874891	3493644	6113791	QUA	0.01953	0.23858	0.02358	0.99885	0.99000	O
1,1,2,2-Tetrachloroethane	1.02920	0.86455	0.84341	0.77921	0.78662	0.72052	AVG		0.83725		12.77335	15.00000	O
1,3,5-Trimethylbenzene	2.39292	2.62471	2.44086	2.26491	2.21429	1.85712	AVG		2.29913		11.31901	15.00000	O
4-Chlorotoluene	2.21124	2.18845	2.06824	1.85505	1.83801	1.57463	AVG		1.95594		12.55117	15.00000	O
tert-Butylbenzene	1.95977	2.26640	2.14342	2.02064	2.07024	1.86914	AVG		2.05493		6.79653	15.00000	O
1,2,4-Trimethylbenzene	2.27144	2.59773	2.46954	2.27859	2.21446	1.85546	AVG		2.28121		11.11537	15.00000	O
P-Isopropyltoluene	2.01417	2.64905	2.38654	2.25710	2.21950	1.87711	AVG		2.23391		12.20981	15.00000	O
1,3-Dichlorobenzene	1.22724	1.26330	1.15444	1.10001	1.12678	1.04000	AVG		1.15196		7.15190	15.00000	O
1,4-Dichlorobenzene	1.56601	1.40686	1.26519	1.23096	1.22353	1.13298	AVG		1.30425		11.96665	15.00000	O
N-Butylbenzene	24035	190160	645125	1665819	3037475	5333612	QUA	0.01997	0.27203	0.03121	0.99908	0.99000	O
sec-Butylbenzene	2.82897	3.45421	3.01219	2.76053	2.65336	2.14762	AVG		2.80948		15.28446	15.00000	W
1,2-Dichlorobenzene	1.12832	1.12165	1.11391	1.05649	1.06982	0.99361	AVG		1.08063		4.77905	15.00000	O
1,2-Dibromo-3-Chloropropane	0.14945	0.14571	0.15530	0.15064	0.15698	0.14941	AVG		0.15125		2.75784	15.00000	O
1,2,4-Trichlorobenzene	0.83755	0.83428	0.75011	0.79500	0.76803	0.73990	AVG		0.78748		5.32498	15.00000	O
Naphthalene	1.43312	1.65604	1.89890	1.77845	1.71239	1.48740	AVG		1.66105		10.60401	15.00000	O
1,2,3-Trichlorobenzene	0.78819	0.76806	0.67040	0.66130	0.62674	0.59574	AVG		0.68507		11.24695	15.00000	O
Methyl Acetate	0.56560	0.51334	0.49814	0.47716	0.49311	0.47598	AVG		0.50389		6.60556	15.00000	O
Methylcyclohexane	0.86273	0.92182	0.78061	0.75581	0.74687	0.71990	AVG		0.79796		9.75828	15.00000	O
Dibromofluoromethane	0.58148	0.60380	0.54731	0.52200	0.71768	0.62278	AVG		0.59917		11.46135	15.00000	
1,2-Dichloroethane-D4	0.88161	0.83725	0.71450	0.65349	0.87852	0.72904	AVG		0.78240		12.28136	15.00000	
Toluene-D8	1.14648	1.12735	1.03941	0.98696	1.29440	0.98166	AVG		1.09604		10.87686	15.00000	
P-Bromofluorobenzene	0.48951	0.49336	0.44225	0.43043	0.59659	0.50292	AVG		0.49251		11.95386	15.00000	

Legend: O = Kept Original Curve
 Y = Failed Minimum RF
 W = Failed %RSD Value

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02236
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: WG122628-7
 Level: LOW Operator: REC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: IND_CHECK4.1.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\target_server\gg\chem\gcms-c.i\C041113.b\C826A67.m
 Misc Info: WG122628, WG122628-4, SG2335-7

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	94.8	189.66*	80-120
2 Chloromethane	50.0	66.0	131.91*	80-120
3 Vinyl chloride	50.0	70.2	140.38*	80-120
4 Bromomethane	50.0	59.2	118.43	80-120
5 Chloroethane	50.0	63.3	126.54*	80-120
6 Trichlorofluoromet	50.0	50.4	100.91	80-120
7 Diethyl Ether	50.0	45.6	91.28	80-120
8 Tertiary-butyl alc	250	229	91.76	80-120
9 1,1-Dichloroethene	50.0	49.6	99.24	80-120
10 Carbon Disulfide	50.0	59.7	119.36	80-120
11 Freon-113	50.0	44.3	88.52	80-120
12 Iodomethane	50.0	58.6	117.17	80-120
13 Acrolein	250	216	86.38	80-120
14 Methylene Chloride	50.0	54.5	109.08	80-120
15 Acetone	50.0	60.2	120.31*	80-120
16 Isobutyl Alcohol	1000	946	94.63	80-120
17 trans-1,2-Dichloro	50.0	48.2	96.46	80-120
18 Allyl Chloride	50.0	46.4	92.73	80-120
19 Methyl tert-butyl	100	102	101.59	80-120
20 Acetonitrile	500	450	89.93	80-120
21 Di-isopropyl ether	50.0	48.3	96.56	80-120
22 Chloroprene	50.0	47.0	94.00	80-120
23 Propionitrile	500	458	91.71	80-120
24 Methacrylonitrile	500	452	90.36	80-120
25 1,1-Dichloroethane	50.0	50.0	100.06	80-120
26 Acrylonitrile	250	228	91.40	80-120
27 Ethyl tertiary-but	50.0	48.0	95.96	80-120
28 Vinyl Acetate	50.0	65.3	130.69*	80-120
29 cis-1,2-Dichloroet	50.0	49.6	99.13	80-120
M 30 1,2-Dichloroethyle	100	97.8	97.79	80-120
31 Methyl Methacrylat	50.0	48.7	97.47	80-120
32 2,2-Dichloropropan	50.0	49.8	99.69	80-120
33 Bromochloromethane	50.0	49.4	98.77	80-120
34 Chloroform	50.0	47.8	95.52	80-120
35 Carbon Tetrachlori	50.0	46.7	93.50	80-120
36 Tetrahydrofuran	50.0	50.5	101.03	80-120
38 1,1,1-Trichloroeth	50.0	48.8	97.63	80-120
39 1,1-Dichloropropen	50.0	55.6	111.17	80-120
40 2-Butanone	50.0	57.3	114.54	80-120
41 Benzene	50.0	50.2	100.32	80-120

SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43 Cyclohexane	50.0	49.4	98.84	80-120
	44 Ethyl Methacrylate	50.0	51.2	102.35	80-120
	46 Tertiary-amyl meth	50.0	49.0	98.08	80-120
	47 1,2-Dichloroethane	50.0	48.2	96.31	80-120
	48 Trichloroethene	50.0	49.7	99.42	80-120
	50 Dibromomethane	50.0	50.0	100.12	80-120
	51 1,2-Dichloropropan	50.0	51.5	102.98	80-120
	52 Bromodichlorometha	50.0	51.9	103.85	80-120
	53 cis-1,3-dichloropr	50.0	48.1	96.24	80-120
	54 1,4-Dioxane	1000	814	81.39	80-120
	56 2-Chloroethylvinyl	50.0	52.7	105.35	80-120
	57 Toluene	50.0	49.9	99.86	80-120
	58 4-methyl-2-pentano	50.0	57.0	114.07	80-120
	59 Tetrachloroethene	50.0	50.3	100.63	80-120
	60 trans-1,3-Dichloro	50.0	55.6	111.17	80-120
	61 1,1,2-Trichloroeth	50.0	51.5	103.06	80-120
	62 Dibromochlorometha	50.0	56.2	112.34	80-120
	63 1,3-Dichloropropan	50.0	50.2	100.38	80-120
	64 1,2-Dibromoethane	50.0	50.6	101.21	80-120
	65 2-Hexanone	50.0	59.6	119.11	80-120
	67 Chlorobenzene	50.0	54.0	108.01	80-120
	152 1-Chlorohexane	50.0	49.6	99.31	80-120
	68 Ethylbenzene	50.0	49.9	99.86	80-120
	69 1,1,1,2-Tetrachlor	50.0	52.8	105.61	80-120
M	70 Xylenes (total)	150	162	108.26	80-120
	71 m+p-Xylenes	100	108	107.66	80-120
	72 o-Xylene	50.0	54.7	109.46	80-120
	73 Styrene	50.0	51.8	103.69	80-120
	74 Bromoform	50.0	54.0	108.08	80-120
	75 Isopropylbenzene	50.0	55.9	111.86	80-120
	77 cis-1,4-Dichloro-2	50.0	46.1	92.19	80-120
	78 trans-1,4-Dichloro	50.0	47.7	95.32	80-120
	79 Bromobenzene	50.0	50.4	100.81	80-120
	80 N-Propylbenzene	50.0	54.0	108.04	80-120
	81 1,1,2,2-Tetrachlor	50.0	48.8	97.55	80-120
	82 1,3,5-Trimethylben	50.0	49.6	99.14	80-120
	83 2-Chlorotoluene	50.0	52.9	105.84	80-120
	84 1,2,3-Trichloropro	50.0	48.5	97.07	80-120
	85 4-Chlorotoluene	50.0	53.8	107.58	80-120
	86 tert-Butylbenzene	50.0	54.2	108.31	80-120
	87 Pentachloroethane	50.0	47.5	95.06	80-120
	88 1,2,4-Trimethylben	50.0	50.9	101.74	80-120
	89 P-Isopropyltoluene	50.0	56.8	113.72	80-120
	90 1,3-Dichlorobenzen	50.0	54.5	109.03	80-120
	92 1,4-Dichlorobenzen	50.0	49.0	98.08	80-120
	93 N-Butylbenzene	50.0	48.0	95.96	80-120
	94 sec-Butylbenzene	50.0	53.8	107.62	80-120
	95 1,2-Dichlorobenzen	50.0	54.4	108.87	80-120
	96 1,2-Dibromo-3-Chlo	50.0	51.0	101.97	80-120
	97 1,3,5-Trichloroben	50.0	45.9	91.82	80-120
	98 Hexachlorobutadien	50.0	48.6	97.11	80-120
	99 1,2,4-Trichloroben	50.0	48.6	97.22	80-120
	100 1,2,3-Trimethylben	50.0	48.2	96.39	80-120
	101 Naphthalene	50.0	53.4	106.88	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C041113.b\C0400A.D
 Report Date: 12-Apr-2013 20:02

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	46.7	93.44	80-120
103 Methyl Acetate	50.0	40.1	80.21	80-120
104 Methylcyclohexane	50.0	45.4	90.87	80-120
M 153 Total Alkylbenzene	350	367	104.93	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
\$ 37 Dibromofluorometha	50.0	43.2	86.39	68-128
\$ 45 1,2-Dichloroethane	50.0	41.5	83.04	67-135
\$ 55 Toluene-D8	50.0	44.6	89.23	65-128
\$ 76 P-Bromofluorobenze	50.0	43.5	86.99	56-133

Data File: \\target_server\GG\chem\gcms-c.i\C041113.b\C0390.D
 Report Date: 12-Apr-2013 09:07

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-c.i\C041113.b\C0390.D
 Lab Smp Id: WG122628-2 Client Smp ID: Initial Calibration
 Inj Date : 11-APR-2013 12:00 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122628-2
 Misc Info :
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041113.b\C826A67.m
 Meth Date : 12-Apr-2013 07:56 rcrocker Quant Type: ISTD
 Cal Date : 11-APR-2013 12:00 Cal File: C0390.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: SW8260-S.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

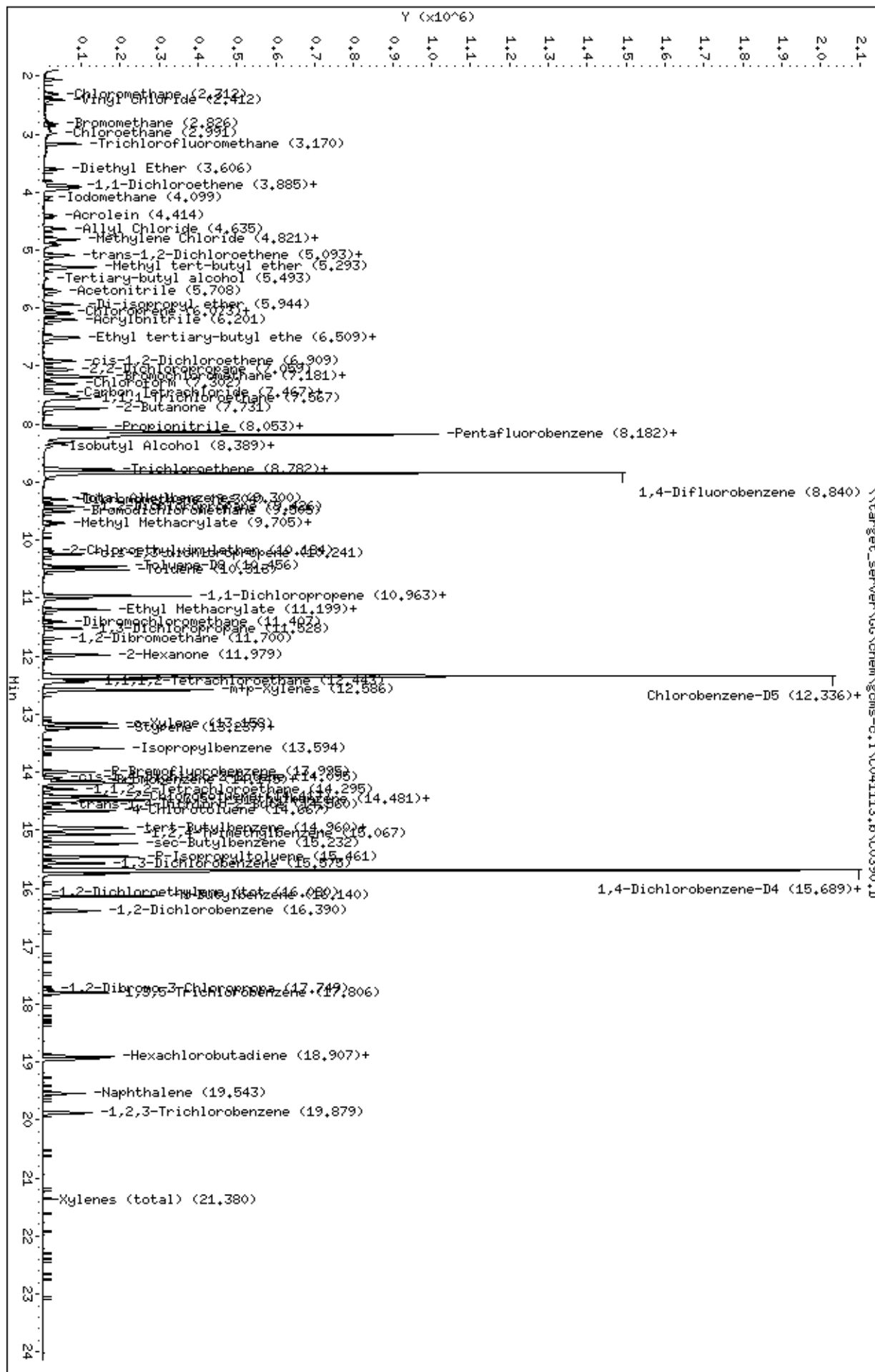
Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.061	2.057 (0.252)		33504		5.00000	6.8	
2 Chloromethane	50	2.304	2.309 (0.282)		55335		5.00000	6.7	
3 Vinyl chloride	62	2.411	2.409 (0.295)		43472		5.00000	6.8	
4 Bromomethane	94	2.826	2.824 (0.345)		20757		5.00000	4.9	
5 Chloroethane	64	2.990	2.988 (0.366)		25023		5.00000	11.0	
6 Trichlorofluoromethane	101	3.169	3.167 (0.387)		67796		5.00000	6.8	
7 Diethyl Ether	59	3.605	3.610 (0.441)		25637		5.00000	5.6	
8 Tertiary-butyl alcohol	59	5.493	5.498 (0.671)		14408		25.0000	23.8	
9 1,1-Dichloroethene	96	3.884	3.882 (0.475)		31499		5.00000	5.8	
10 Carbon Disulfide	76	3.920	3.925 (0.479)		110162		5.00000	5.6	
11 Freon-113	151	3.948	3.946 (0.483)		17794		5.00000	5.7	
12 Iodomethane	142	4.099	4.103 (0.501)		21643		5.00000	3.9	
13 Acrolein	56	4.413	4.418 (0.539)		34475		25.0000	30.2	
14 Methylene Chloride	84	4.821	4.818 (0.589)		59800		5.00000	8.3	
15 Acetone	43	4.907	4.911 (0.600)		74916		25.0000	26.8	
16 Isobutyl Alcohol	43	8.389	8.379 (1.025)		16244		100.000	66.8	
17 trans-1,2-Dichloroethene	96	5.092	5.090 (0.622)		36329		5.00000	5.7	
18 Allyl Chloride	41	4.635	4.633 (0.567)		49313		5.00000	6.0	
19 Methyl tert-butyl ether	73	5.293	5.297 (0.647)		176293		10.0000	10.8	
20 Acetonitrile	39	5.700	5.705 (0.697)		13178		50.0000	57.3	
21 Di-isopropyl ether	45	5.943	5.941 (0.726)		105414		5.00000	5.6	
22 Chloroprene	53	6.072	6.070 (0.742)		43878		5.00000	5.4	
23 Propionitrile	54	8.103	8.106 (0.990)		58455		50.0000	58.5	
24 Methacrylonitrile	41	8.131	8.129 (0.994)		246257		50.0000	66.2	

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
	MASS						CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63		6.108	6.113 (0.747)		69120	5.00000	5.9	
26 Acrylonitrile	52		6.201	6.198 (0.758)		67764	25.0000	31.2	
27 Ethyl tertiary-butyl ether	59		6.501	6.499 (0.795)		87409	5.00000	5.4	
28 Vinyl Acetate	43		6.522	6.520 (0.738)		71979	5.00000	5.1	
29 cis-1,2-Dichloroethene	96		6.909	6.913 (0.844)		38419	5.00000	5.6	
31 Methyl Methacrylate	41		9.697	9.702 (1.097)		27936	5.00000	4.9	
32 2,2-Dichloropropane	77		7.059	7.064 (0.863)		55138	5.00000	5.8	
33 Bromochloromethane	128		7.187	7.185 (0.879)		16179	5.00000	5.9	
34 Chloroform	83		7.302	7.307 (0.893)		71582	5.00000	6.1	
35 Carbon Tetrachloride	117		7.466	7.464 (0.845)		42783	5.00000	5.9	
36 Tetrahydrofuran	42		7.509	7.507 (0.918)		58356	25.0000	26.7	
\$ 37 Dibromofluoromethane	113		7.545	7.550 (0.922)		35691	5.00000	5.8	
38 1,1,1-Trichloroethane	97		7.566	7.564 (0.925)		59471	5.00000	5.6	
39 1,1-Dichloropropene	75		11.006	11.003 (1.245)		49817	5.00000	5.1	
40 2-Butanone	43		7.724	7.721 (0.944)		98957	25.0000	27.4	
41 Benzene	78		8.053	8.057 (0.911)		137133	5.00000	5.5	
* 42 Pentafluorobenzene	168		8.181	8.179 (1.000)		591104	50.0000		
43 Cyclohexane	56		7.173	7.178 (0.877)		59355	5.00000	5.7	
44 Ethyl Methacrylate	69		11.199	11.189 (1.267)		37488	5.00000	4.9	
\$ 45 1,2-Dichloroethane-D4	65		8.231	8.236 (1.006)		49490	5.00000	6.4	
46 Tertiary-amyl methyl ether	73		8.224	8.222 (1.005)		72826	5.00000	5.2	
47 1,2-Dichloroethane	62		8.317	8.321 (0.941)		57458	5.00000	6.2	
48 Trichloroethene	95		8.789	8.794 (0.994)		37363	5.00000	5.8	
* 49 1,4-Difluorobenzene	114		8.839	8.844 (1.000)		1072099	50.0000		
50 Dibromomethane	93		9.304	9.302 (1.053)		24136	5.00000	5.7	
51 1,2-Dichloropropane	63		9.425	9.423 (1.066)		35137	5.00000	5.4	
52 Bromodichloromethane	83		9.504	9.502 (1.075)		48892	5.00000	5.3	
53 cis-1,3-dichloropropene	75		10.241	10.245 (1.159)		54637	5.00000	4.8	
54 1,4-Dioxane	88		9.740	9.745 (1.102)		11157	100.000	111	
\$ 55 Toluene-D8	98		10.455	10.453 (1.183)		120863	5.00000	5.7	
56 2-Chloroethylvinylether	63		10.176	10.181 (1.151)		11538	5.00000	4.4	
57 Toluene	92		10.512	10.517 (1.189)		85322	5.00000	5.7	
58 4-methyl-2-pentanone	43		10.963	10.960 (1.240)		178445	25.0000	27.5	
59 Tetrachloroethene	164		10.963	10.960 (0.888)		25982	5.00000	5.3	
60 trans-1,3-Dichloropropene	75		11.006	11.003 (1.245)		49817	5.00000	5.1	
61 1,1,2-Trichloroethane	83		11.192	11.196 (1.266)		26179	5.00000	5.2	
62 Dibromochloromethane	129		11.406	11.411 (0.924)		30617	5.00000	4.7	
63 1,3-Dichloropropane	76		11.528	11.525 (0.934)		59556	5.00000	5.4	
64 1,2-Dibromoethane	107		11.699	11.697 (1.324)		33970	5.00000	5.4	
65 2-Hexanone	43		11.978	11.976 (0.970)		132461	25.0000	26.6	
* 66 Chlorobenzene-D5	117		12.343	12.340 (1.000)		1057679	50.0000		
67 Chlorobenzene	112		12.357	12.362 (1.001)		87216	5.00000	5.5	
152 1-Chlorohexane	91		12.328	12.333 (0.999)		55043	5.00000	5.7	
68 Ethylbenzene	106		12.393	12.398 (1.004)		48371	5.00000	5.3	
69 1,1,1,2-Tetrachloroethane	131		12.443	12.448 (1.008)		29774	5.00000	5.0	
71 m+p-Xylenes	106		12.586	12.583 (1.020)		116359	10.0000	10.7	
72 o-Xylene	106		13.158	13.163 (1.066)		53354	5.00000	5.0	
73 Styrene	104		13.236	13.234 (1.072)		96313	5.00000	5.1	
74 Bromoform	173		13.272	13.270 (1.075)		19595	5.00000	4.3	
75 Isopropylbenzene	105		13.594	13.592 (0.866)		146606	5.00000	5.5	
\$ 76 P-Bromofluorobenzene	95		13.994	13.999 (1.583)		52893	5.00000	5.7	
77 cis-1,4-Dichloro-2-Butene	53		14.094	14.099 (0.898)		13220	5.00000	5.3	
78 trans-1,4-Dichloro-2-Butene	53		14.559	14.557 (0.928)		12887	5.00000	5.2	
79 Bromobenzene	156		14.152	14.149 (0.902)		38423	5.00000	5.4	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT		ON-COL
							(ug/l)		(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
80 N-Propylbenzene	91	14.187	14.192	(0.904)	202025	5.00000	6.1		
81 1,1,2,2-Tetrachloroethane	83	14.295	14.292	(0.911)	48334	5.00000	5.5		
82 1,3,5-Trimethylbenzene	105	14.481	14.478	(0.923)	146739	5.00000	5.8		
83 2-Chlorotoluene	91	14.416	14.421	(0.919)	120818	5.00000	5.9		
84 1,2,3-Trichloropropane	75	14.495	14.500	(0.924)	41046	5.00000	5.7		
85 4-Chlorotoluene	91	14.666	14.664	(0.935)	122349	5.00000	5.9		
86 tert-Butylbenzene	119	14.960	14.957	(0.954)	126707	5.00000	5.6		
87 Pentachloroethane	117	14.988	14.993	(0.955)	26203	5.00000	5.6		
88 1,2,4-Trimethylbenzene	105	15.067	15.072	(0.960)	145231	5.00000	5.7		
89 P-Isopropyltoluene	119	15.460	15.465	(0.985)	148100	5.00000	5.9		
90 1,3-Dichlorobenzene	146	15.575	15.572	(0.993)	70627	5.00000	5.7		
* 91 1,4-Dichlorobenzene-D4	152	15.689	15.694	(1.000)	559068	50.0000			
92 1,4-Dichlorobenzene	146	15.710	15.715	(1.001)	78653	5.00000	5.7		
93 N-Butylbenzene	91	16.139	16.143	(1.029)	190160	5.00000	6.5		
94 sec-Butylbenzene	105	15.231	15.236	(0.971)	193114	5.00000	6.2		
95 1,2-Dichlorobenzene	146	16.397	16.393	(1.045)	62708	5.00000	5.3		
96 1,2-Dibromo-3-Chloropropane	75	17.755	17.753	(1.132)	8146	5.00000	4.8		
97 1,3,5-Trichlorobenzene	180	17.805	17.803	(1.135)	56499	5.00000	5.9		
98 Hexachlorobutadiene	225	18.906	18.911	(1.205)	38665	5.00000	7.6		
99 1,2,4-Trichlorobenzene	180	18.949	18.947	(1.208)	46642	5.00000	5.2		
100 1,2,3-Trimethylbenzene	105	15.753	15.758	(1.004)	136574	5.00000	6.0		
101 Naphthalene	128	19.543	19.541	(1.246)	92584	5.00000	4.6		
102 1,2,3-Trichlorobenzene	180	19.879	19.877	(1.267)	42940	5.00000	5.8		
103 Methyl Acetate	43	5.142	5.140	(0.629)	30344	5.00000	5.4		
104 Methylcyclohexane	83	8.775	8.772	(1.073)	54489	5.00000	6.1		

Data File: \\target_server\GC\chem\goms-c.i\CD041113.b\CD0390.D
 Date: 11-APR-2013 12:00
 Client ID: Initial Calibration
 Sample Info: MG12628-2
 Purge Volume: 5.0
 Column phase: RTX-VHS

Instrument: goms-c.i
 Operator: REC
 Column diameter: 0.18



Data File: \\target_server\GG\chem\gcms-c.i\C041113.b\C0391.D
Report Date: 12-Apr-2013 09:07

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-c.i\C041113.b\C0391.D
Lab Smp Id: WG122628-1 Client Smp ID: Initial Calibration
Inj Date : 11-APR-2013 12:31 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122628-1
Misc Info :
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C041113.b\C826A67.m
Meth Date : 12-Apr-2013 07:56 rcrocker Quant Type: ISTD
Cal Date : 11-APR-2013 12:31 Cal File: C0391.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.058	2.057	(0.252)	9598		1.00000	1.7	
2 Chloromethane	50	2.316	2.309	(0.283)	17930		1.00000	1.9	
3 Vinyl chloride	62	2.408	2.409	(0.295)	12546		1.00000	1.7	
4 Bromomethane	94	2.823	2.824	(0.345)	4327		1.00000	1.1	
7 Diethyl Ether	59	3.603	3.610	(0.441)	5545		1.00000	1.2	
8 Tertiary-butyl alcohol	59	5.490	5.498	(0.671)	3084		5.00000	5.4(M)	M9
9 1,1-Dichloroethene	96	3.881	3.882	(0.475)	6491		1.00000	1.2	
10 Carbon Disulfide	76	3.917	3.925	(0.479)	25240		1.00000	0.64(a)	
11 Freon-113	151	3.939	3.946	(0.482)	3822		1.00000	1.2	
12 Iodomethane	142	4.103	4.103	(0.502)	4457		1.00000	2.0	
13 Acrolein	56	4.418	4.418	(0.540)	7227		5.00000	6.0	
15 Acetone	43	4.911	4.911	(0.600)	18614		5.00000	6.7	
16 Isobutyl Alcohol	43	8.386	8.379	(1.025)	2649		20.0000	46.5	
17 trans-1,2-Dichloroethene	96	5.097	5.090	(0.623)	7116		1.00000	1.1	
18 Allyl Chloride	41	4.632	4.633	(0.566)	9531		1.00000	1.1	
19 Methyl tert-butyl ether	73	5.297	5.297	(0.648)	32253		2.00000	2.0	
20 Acetonitrile	39	5.705	5.705	(0.698)	2356		10.0000	10(a)	
21 Di-isopropyl ether	45	5.948	5.941	(0.727)	19062		1.00000	1.00	
22 Chloroprene	53	6.077	6.070	(0.743)	9223		1.00000	1.1	
23 Propionitrile	54	8.107	8.106	(0.991)	10579		10.0000	10.2	
25 1,1-Dichloroethane	63	6.112	6.113	(0.747)	13614		1.00000	1.1	
26 Acrylonitrile	52	6.205	6.198	(0.759)	12417		5.00000	5.3	
27 Ethyl tertiary-butyl ether	59	6.506	6.499	(0.795)	16911		1.00000	1.0	
28 Vinyl Acetate	43	6.534	6.520	(0.739)	12108		1.00000	0.90(a)	

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11:33 am, Apr 23, 2013

						AMOUNTS		
		QUANT		SIG		CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
=====	=====	=====	=====	=====	=====	=====	=====	=====
29 cis-1,2-Dichloroethene	96	6.913	6.913	(0.845)	7254	1.00000	1.0	
31 Methyl Methacrylate	41	9.702	9.702	(1.098)	5232	1.00000	0.98(aM)	M9
32 2,2-Dichloropropane	77	7.056	7.064	(0.863)	9755	1.00000	0.99(a)	
33 Bromochloromethane	128	7.192	7.185	(0.879)	3193	1.00000	1.1	
34 Chloroform	83	7.299	7.307	(0.892)	14447	1.00000	1.2	
35 Carbon Tetrachloride	117	7.478	7.464	(0.846)	7856	1.00000	1.0	
36 Tetrahydrofuran	42	7.521	7.507	(0.920)	12833	5.00000	5.9	
\$ 37 Dibromofluoromethane	113	7.549	7.550	(0.923)	6591	1.00000	1.0	
38 1,1,1-Trichloroethane	97	7.564	7.564	(0.925)	11199	1.00000	1.0	
39 1,1-Dichloropropene	75	11.003	11.003	(1.245)	7981	1.00000	0.86(a)	
40 2-Butanone	43	7.728	7.721	(0.945)	19043	5.00000	5.2	
41 Benzene	78	8.057	8.057	(0.912)	26340	1.00000	1.1	
* 42 Pentafluorobenzene	168	8.179	8.179	(1.000)	566748	50.0000		
43 Cyclohexane	56	7.178	7.178	(0.878)	10268	1.00000	0.96(a)	
44 Ethyl Methacrylate	69	11.196	11.189	(1.267)	5414	1.00000	0.76(a)	
\$ 45 1,2-Dichloroethane-D4	65	8.229	8.236	(1.006)	9993	1.00000	1.2	
46 Tertiary-amyl methyl ether	73	8.222	8.222	(1.005)	14363	1.00000	1.0	
47 1,2-Dichloroethane	62	8.322	8.321	(0.942)	10365	1.00000	1.0	
48 Trichloroethene	95	8.794	8.794	(0.995)	7260	1.00000	1.1	
* 49 1,4-Difluorobenzene	114	8.836	8.844	(1.000)	1011530	50.0000		
50 Dibromomethane	93	9.301	9.302	(1.053)	4537	1.00000	1.1	
51 1,2-Dichloropropane	63	9.430	9.423	(1.067)	6658	1.00000	1.0	
52 Bromodichloromethane	83	9.501	9.502	(1.075)	8754	1.00000	0.98(a)	
53 cis-1,3-dichloropropene	75	10.245	10.245	(1.159)	9736	1.00000	0.93(a)	
54 1,4-Dioxane	88	9.766	9.745	(1.105)	2259	20.0000	11.6(aM)	M9
\$ 55 Toluene-D8	98	10.452	10.453	(1.183)	23194	1.00000	1.1	
56 2-Chloroethylvinylether	63	10.181	10.181	(1.152)	2275	1.00000	0.98(a)	
57 Toluene	92	10.517	10.517	(1.190)	16123	1.00000	1.1	
58 4-methyl-2-pentanone	43	10.967	10.960	(1.241)	31684	5.00000	4.9(a)	
59 Tetrachloroethene	164	10.953	10.960	(0.888)	4393	1.00000	0.91(a)	
60 trans-1,3-Dichloropropene	75	11.003	11.003	(1.245)	7981	1.00000	0.86(a)	
61 1,1,2-Trichloroethane	83	11.196	11.196	(1.267)	5329	1.00000	1.1	
62 Dibromochloromethane	129	11.411	11.411	(0.925)	4997	1.00000	0.83(a)	
63 1,3-Dichloropropane	76	11.525	11.525	(0.934)	12168	1.00000	1.1	
64 1,2-Dibromoethane	107	11.697	11.697	(1.324)	6607	1.00000	1.1(M)	M6
65 2-Hexanone	43	11.983	11.976	(0.971)	22735	5.00000	4.6(a)	
* 66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	1008123	50.0000		
67 Chlorobenzene	112	12.361	12.362	(1.002)	17313	1.00000	1.1	
152 1-Chlorohexane	91	12.333	12.333	(0.999)	11933	1.00000	1.2	
68 Ethylbenzene	106	12.397	12.398	(1.005)	8934	1.00000	0.99(a)	
69 1,1,1,2-Tetrachloroethane	131	12.440	12.448	(1.008)	5005	1.00000	0.88(a)	
71 m+p-Xylenes	106	12.583	12.583	(1.020)	21946	2.00000	2.0	
72 o-Xylene	106	13.155	13.163	(1.066)	9515	1.00000	0.94(a)	
73 Styrene	104	13.234	13.234	(1.072)	16380	1.00000	0.90(a)	
74 Bromoform	173	13.277	13.270	(1.076)	3087	1.00000	0.76(a)	
75 Isopropylbenzene	105	13.598	13.592	(0.867)	25337	1.00000	0.98(a)	
\$ 76 P-Bromofluorobenzene	95	13.999	13.999	(1.584)	9903	1.00000	1.0	
77 cis-1,4-Dichloro-2-Butene	53	14.099	14.099	(0.899)	2640	1.00000	1.1	
78 trans-1,4-Dichloro-2-Butene	53	14.557	14.557	(0.928)	2153	1.00000	0.93(a)	
79 Bromobenzene	156	14.149	14.149	(0.902)	7517	1.00000	1.1	
81 1,1,2,2-Tetrachloroethane	83	14.299	14.292	(0.912)	10633	1.00000	1.2	
82 1,3,5-Trimethylbenzene	105	14.478	14.478	(0.923)	24722	1.00000	0.98(a)	
83 2-Chlorotoluene	91	14.421	14.421	(0.919)	21433	1.00000	1.0	
84 1,2,3-Trichloropropane	75	14.499	14.500	(0.924)	8215	1.00000	1.2	

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Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
85 4-Chlorotoluene	91	14.671	14.664	(0.935)	22845	1.00000	1.1		
86 tert-Butylbenzene	119	14.957	14.957	(0.954)	20247	1.00000	0.91(a)		
88 1,2,4-Trimethylbenzene	105	15.071	15.072	(0.961)	23467	1.00000	0.93(a)		
89 P-Isopropyltoluene	119	15.465	15.465	(0.986)	20809	1.00000	0.82(a)		
90 1,3-Dichlorobenzene	146	15.579	15.572	(0.993)	12679	1.00000	1.0		
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	516566	50.0000			
92 1,4-Dichlorobenzene	146	15.708	15.715	(1.001)	16179	1.00000	1.2		
94 sec-Butylbenzene	105	15.236	15.236	(0.971)	29227	1.00000	0.91(a)		
95 1,2-Dichlorobenzene	146	16.387	16.393	(1.045)	11657	1.00000	1.0		
96 1,2-Dibromo-3-Chloropropane	75	17.746	17.753	(1.131)	1544	1.00000	1.0		
97 1,3,5-Trichlorobenzene	180	17.810	17.803	(1.135)	9734	1.00000	1.0		
99 1,2,4-Trichlorobenzene	180	18.947	18.947	(1.208)	8653	1.00000	1.0		
100 1,2,3-Trimethylbenzene	105	15.758	15.758	(1.005)	23874	1.00000	1.0		
101 Naphthalene	128	19.540	19.541	(1.246)	14806	1.00000	0.83(a)		
102 1,2,3-Trichlorobenzene	180	19.876	19.877	(1.267)	8143	1.00000	1.1		
103 Methyl Acetate	43	5.140	5.140	(0.628)	6411	1.00000	1.1		
104 Methylcyclohexane	83	8.772	8.772	(1.073)	9779	1.00000	1.0		

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: \\target_server\GC\chem\goms-c.i\CD041113.b\CD0391.D

Date: 11-APR-2013 12:31

Client ID: Initial Calibration

Sample Info: MG12628-1

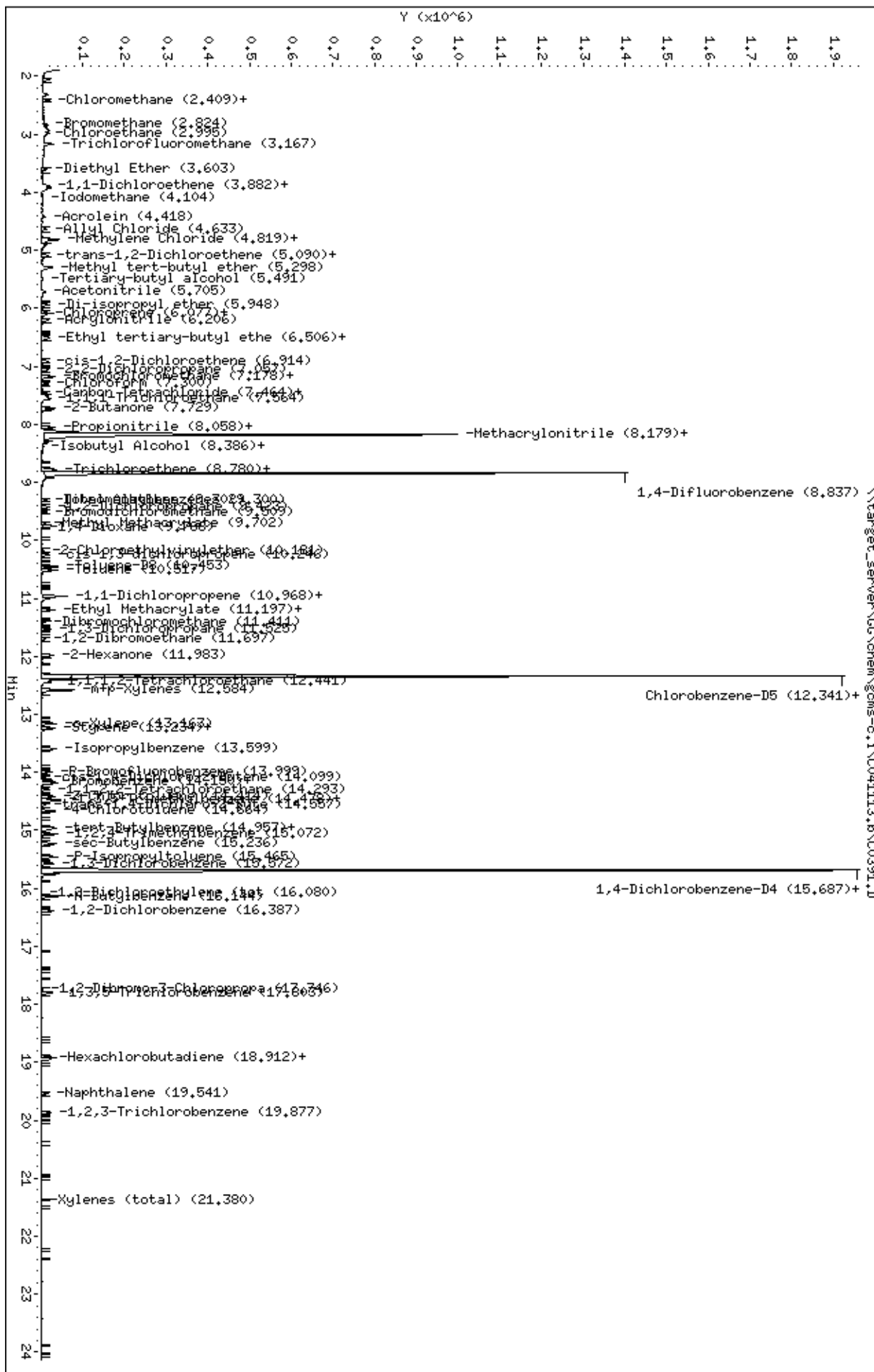
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Data File: \\target_server\GG\chem\gcms-c.i\C041113.b\C0394.D
Report Date: 12-Apr-2013 09:07

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-c.i\C041113.b\C0394.D
Lab Smp Id: WG122628-3 Client Smp ID: Initial Calibration
Inj Date : 11-APR-2013 14:05 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122628-3
Misc Info :
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C041113.b\C826A67.m
Meth Date : 12-Apr-2013 07:56 rcrocker Quant Type: ISTD
Cal Date : 01-APR-2013 12:56 Cal File: C0238.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.061	2.057 (0.252)		116738		20.0000	15.0	
2 Chloromethane	50	2.311	2.309 (0.283)		201355		20.0000	14.7	
3 Vinyl chloride	62	2.411	2.409 (0.295)		148525		20.0000	14.6	
4 Bromomethane	94	2.826	2.824 (0.345)		82572		20.0000	17.8	
5 Chloroethane	64	2.990	2.988 (0.366)		69686		20.0000	26.1	
6 Trichlorofluoromethane	101	3.169	3.167 (0.387)		231507		20.0000	18.6	
7 Diethyl Ether	59	3.605	3.610 (0.441)		110981		20.0000	19.9	
8 Tertiary-butyl alcohol	59	5.493	5.498 (0.671)		62102		100.000	94.4	
9 1,1-Dichloroethene	96	3.884	3.882 (0.475)		124137		20.0000	18.6	
10 Carbon Disulfide	76	3.920	3.925 (0.479)		427032		20.0000	19.9	
11 Freon-113	151	3.948	3.946 (0.483)		68257		20.0000	17.8	
12 Iodomethane	142	4.098	4.103 (0.501)		120775		20.0000	24.1	
13 Acrolein	56	4.413	4.418 (0.539)		135888		100.000	93.6	
14 Methylene Chloride	84	4.813	4.818 (0.588)		183781		20.0000	21.7	
15 Acetone	43	4.906	4.911 (0.600)		298210		100.000	85.6	
16 Isobutyl Alcohol	43	8.374	8.379 (1.024)		86271		400.000	343	
17 trans-1,2-Dichloroethene	96	5.092	5.090 (0.622)		145189		20.0000	19.1	
18 Allyl Chloride	41	4.635	4.633 (0.567)		191543		20.0000	19.0	
19 Methyl tert-butyl ether	73	5.292	5.297 (0.647)		751755		40.0000	41.2	
20 Acetonitrile	39	5.700	5.705 (0.697)		47881		200.000	180	
21 Di-isopropyl ether	45	5.943	5.941 (0.726)		440045		20.0000	20.5	
22 Chloroprene	53	6.072	6.070 (0.742)		179596		20.0000	18.8	
23 Propionitrile	54	8.102	8.106 (0.990)		230965		200.000	196	
24 Methacrylonitrile	41	8.131	8.129 (0.994)		948646		200.000	200	

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
=====	=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.108	6.113	(0.747)	277774	20.0000	19.4	
26 Acrylonitrile	52	6.200	6.198	(0.758)	263413	100.000	97.8	
27 Ethyl tertiary-butyl ether	59	6.501	6.499	(0.795)	370494	20.0000	20.0	
28 Vinyl Acetate	43	6.522	6.520	(0.738)	328085	20.0000	22.4	
29 cis-1,2-Dichloroethene	96	6.908	6.913	(0.844)	154527	20.0000	19.4	
31 Methyl Methacrylate	41	9.697	9.702	(1.097)	129684	20.0000	21.7	
32 2,2-Dichloropropane	77	7.058	7.064	(0.863)	216763	20.0000	19.6	
33 Bromochloromethane	128	7.187	7.185	(0.879)	65398	20.0000	19.6	
34 Chloroform	83	7.302	7.307	(0.893)	279886	20.0000	18.9	
35 Carbon Tetrachloride	117	7.466	7.464	(0.845)	166608	20.0000	19.4	
36 Tetrahydrofuran	42	7.502	7.507	(0.917)	249346	100.000	96.2	
\$ 37 Dibromofluoromethane	113	7.545	7.550	(0.922)	139850	20.0000	19.2	
38 1,1,1-Trichloroethane	97	7.566	7.564	(0.925)	243465	20.0000	19.8	
39 1,1-Dichloropropene	75	11.005	11.003	(1.245)	218846	20.0000	21.8	
40 2-Butanone	43	7.723	7.721	(0.944)	415152	100.000	99.8	
41 Benzene	78	8.052	8.057	(0.911)	565166	20.0000	19.9	
* 42 Pentafluorobenzene	168	8.181	8.179	(1.000)	638801	50.0000		
43 Cyclohexane	56	7.173	7.178	(0.877)	238961	20.0000	20.1	
44 Ethyl Methacrylate	69	11.191	11.189	(1.266)	170482	20.0000	23.0	
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236	(1.006)	182570	20.0000	18.1	
46 Tertiary-amyl methyl ether	73	8.217	8.222	(1.004)	311779	20.0000	19.8	
47 1,2-Dichloroethane	62	8.317	8.321	(0.941)	218789	20.0000	19.4	
48 Trichloroethene	95	8.789	8.794	(0.994)	142853	20.0000	18.6	
* 49 1,4-Difluorobenzene	114	8.839	8.844	(1.000)	1142700	50.0000		
50 Dibromomethane	93	9.304	9.302	(1.053)	98859	20.0000	20.1	
51 1,2-Dichloropropane	63	9.425	9.423	(1.066)	146257	20.0000	20.0	
52 Bromodichloromethane	83	9.504	9.502	(1.075)	212475	20.0000	21.2	
53 cis-1,3-dichloropropene	75	10.247	10.245	(1.159)	255002	20.0000	22.0	
54 1,4-Dioxane	88	9.747	9.745	(1.103)	41208	400.000	380	
\$ 55 Toluene-D8	98	10.455	10.453	(1.183)	475095	20.0000	19.1	
56 2-Chloroethylvinylether	63	10.183	10.181	(1.152)	57224	20.0000	22.0	
57 Toluene	92	10.512	10.517	(1.189)	344636	20.0000	19.7	
58 4-methyl-2-pentanone	43	10.962	10.960	(1.240)	776386	100.000	107	
59 Tetrachloroethene	164	10.962	10.960	(0.888)	103242	20.0000	20.0	
60 trans-1,3-Dichloropropene	75	11.005	11.003	(1.245)	218846	20.0000	21.8	
61 1,1,2-Trichloroethane	83	11.198	11.196	(1.267)	112618	20.0000	20.0	
62 Dibromochloromethane	129	11.406	11.411	(0.924)	140326	20.0000	22.4	
63 1,3-Dichloropropane	76	11.527	11.525	(0.934)	251620	20.0000	20.1	
64 1,2-Dibromoethane	107	11.699	11.697	(1.324)	139633	20.0000	19.5	
65 2-Hexanone	43	11.978	11.976	(0.970)	564182	100.000	107	
* 66 Chlorobenzene-D5	117	12.342	12.340	(1.000)	1111175	50.0000		
67 Chlorobenzene	112	12.364	12.362	(1.002)	353276	20.0000	19.6	
152 1-Chlorohexane	91	12.328	12.333	(0.999)	214691	20.0000	18.4	
68 Ethylbenzene	106	12.392	12.398	(1.004)	204379	20.0000	20.7	
69 1,1,1,2-Tetrachloroethane	131	12.443	12.448	(1.008)	127131	20.0000	21.1	
71 m+p-Xylenes	106	12.586	12.583	(1.020)	486202	40.0000	40.8	
72 o-Xylene	106	13.158	13.163	(1.066)	231686	20.0000	21.2	
73 Styrene	104	13.236	13.234	(1.072)	415154	20.0000	21.4	
74 Bromoform	173	13.272	13.270	(1.075)	93383	20.0000	22.7	
75 Isopropylbenzene	105	13.594	13.592	(0.866)	621215	20.0000	21.2	
\$ 76 P-Bromofluorobenzene	95	13.994	13.999	(1.583)	202144	20.0000	18.8	
77 cis-1,4-Dichloro-2-Butene	53	14.094	14.099	(0.898)	55825	20.0000	19.9	
78 trans-1,4-Dichloro-2-Butene	53	14.559	14.557	(0.928)	54062	20.0000	20.9	
79 Bromobenzene	156	14.151	14.149	(0.902)	156195	20.0000	19.5	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT		ON-COL
							(ug/l)		(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
80 N-Propylbenzene	91	14.187	14.192	(0.904)	770277	20.0000	19.4		
81 1,1,2,2-Tetrachloroethane	83	14.294	14.292	(0.911)	198526	20.0000	18.9		
82 1,3,5-Trimethylbenzene	105	14.480	14.478	(0.923)	574538	20.0000	20.1		
83 2-Chlorotoluene	91	14.416	14.421	(0.919)	475800	20.0000	20.0		
84 1,2,3-Trichloropropane	75	14.495	14.500	(0.924)	163984	20.0000	19.3		
85 4-Chlorotoluene	91	14.666	14.664	(0.935)	486830	20.0000	19.8		
86 tert-Butylbenzene	119	14.959	14.957	(0.954)	504525	20.0000	20.6		
87 Pentachloroethane	117	14.988	14.993	(0.955)	104342	20.0000	20.6		
88 1,2,4-Trimethylbenzene	105	15.067	15.072	(0.960)	581290	20.0000	20.7		
89 P-Isopropyltoluene	119	15.460	15.465	(0.985)	561752	20.0000	20.7		
90 1,3-Dichlorobenzene	146	15.574	15.572	(0.993)	271737	20.0000	19.3		
* 91 1,4-Dichlorobenzene-D4	152	15.689	15.694	(1.000)	588459	50.0000			
92 1,4-Dichlorobenzene	146	15.710	15.715	(1.001)	297804	20.0000	18.0		
93 N-Butylbenzene	91	16.139	16.143	(1.029)	645125	20.0000	17.2		
94 sec-Butylbenzene	105	15.231	15.236	(0.971)	709021	20.0000	20.0		
95 1,2-Dichlorobenzene	146	16.389	16.393	(1.045)	262195	20.0000	20.2		
96 1,2-Dibromo-3-Chloropropane	75	17.748	17.753	(1.131)	36555	20.0000	20.9		
97 1,3,5-Trichlorobenzene	180	17.805	17.803	(1.135)	203119	20.0000	18.4		
98 Hexachlorobutadiene	225	18.906	18.911	(1.205)	90277	20.0000	15.8		
99 1,2,4-Trichlorobenzene	180	18.949	18.947	(1.208)	176564	20.0000	18.2		
100 1,2,3-Trimethylbenzene	105	15.753	15.758	(1.004)	525291	20.0000	19.7		
101 Naphthalene	128	19.543	19.541	(1.246)	446969	20.0000	23.4		
102 1,2,3-Trichlorobenzene	180	19.879	19.877	(1.267)	157801	20.0000	18.1		
103 Methyl Acetate	43	5.135	5.140	(0.628)	127285	20.0000	19.2		
104 Methylcyclohexane	83	8.775	8.772	(1.073)	199462	20.0000	18.4		

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Date: 11-APR-2013 14:05

Client ID: Initial Calibration

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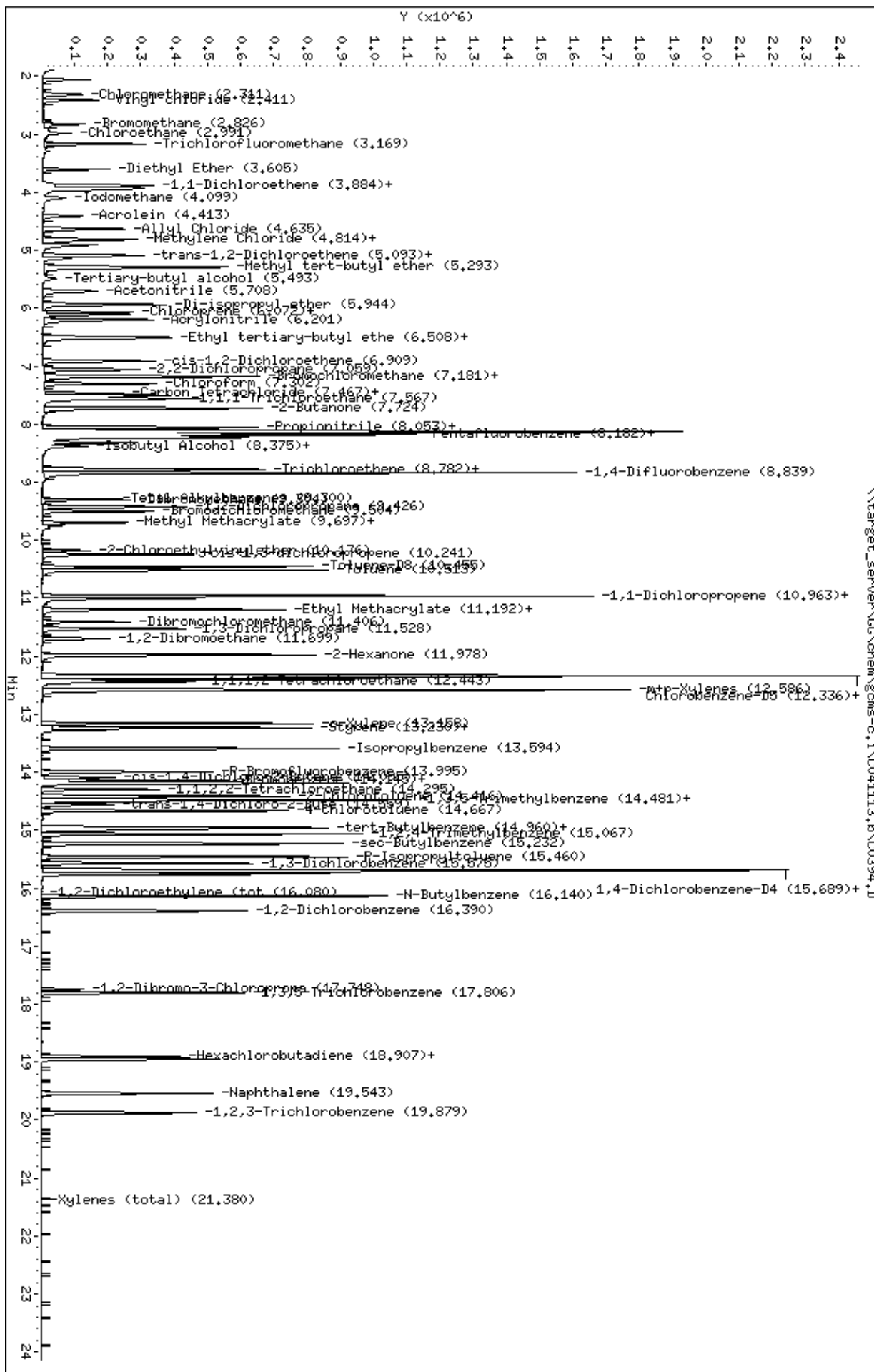
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Data File: \\target_server\GG\chem\gcms-c.i\C041113.b\C0396.D
Report Date: 12-Apr-2013 09:07

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-c.i\C041113.b\C0396.D
Lab Smp Id: WG122628-5 Client Smp ID: Initial Calibration
Inj Date : 11-APR-2013 15:18 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122628-5
Misc Info :
Comment : SW846 5030
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Meth Date : 12-Apr-2013 07:56 rcrocker Quant Type: ISTD
Cal Date : 11-APR-2013 15:18 Cal File: C0396.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.057	2.057	(0.251)	571810		100.000	73.8	
2 Chloromethane	50	2.307	2.309	(0.282)	922346		100.000	68.0	
3 Vinyl chloride	62	2.408	2.409	(0.294)	726640		100.000	72.4	
4 Bromomethane	94	2.822	2.824	(0.345)	537427		100.000	112	
5 Chloroethane	64	2.980	2.988	(0.364)	256352		100.000	98.2	
6 Trichlorofluoromethane	101	3.165	3.167	(0.387)	1262480		100.000	126	
7 Diethyl Ether	59	3.609	3.610	(0.441)	502830		100.000	85.1	
8 Tertiary-butyl alcohol	59	5.504	5.498	(0.672)	362430		500.000	527	
9 1,1-Dichloroethene	96	3.880	3.882	(0.474)	615434		100.000	88.6	
10 Carbon Disulfide	76	3.923	3.925	(0.479)	2117026		100.000	95.0	
11 Freon-113	151	3.945	3.946	(0.482)	339119		100.000	85.7	
12 Iodomethane	142	4.095	4.103	(0.500)	514715		100.000	83.6	
13 Acrolein	56	4.417	4.418	(0.540)	667211		500.000	441	
14 Methylene Chloride	84	4.817	4.818	(0.589)	802755		100.000	99.3	
15 Acetone	43	4.917	4.911	(0.601)	1638209		500.000	460	
16 Isobutyl Alcohol	43	8.378	8.379	(1.024)	564135		2000.00	2020	
17 trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	705184		100.000	88.5	
18 Allyl Chloride	41	4.631	4.633	(0.566)	967224		100.000	91.6	
19 Methyl tert-butyl ether	73	5.296	5.297	(0.647)	3674808		200.000	188	
20 Acetonitrile	39	5.711	5.705	(0.698)	259532		1000.00	943	
21 Di-isopropyl ether	45	5.947	5.941	(0.727)	2157475		100.000	94.1	
22 Chloroprene	53	6.076	6.070	(0.742)	917475		100.000	92.2	
23 Propionitrile	54	8.113	8.106	(0.991)	1122264		1000.00	903	
24 Methacrylonitrile	41	8.135	8.129	(0.994)	3902110		1000.00	1140	

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
=====	=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.111	6.113	(0.747)	1354475	100.000	89.8	
26 Acrylonitrile	52	6.204	6.198	(0.758)	1301247	500.000	458	
27 Ethyl tertiary-butyl ether	59	6.505	6.499	(0.795)	1863092	100.000	95.0	
28 Vinyl Acetate	43	6.526	6.520	(0.738)	1592824	100.000	100	
29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	773945	100.000	92.4	
31 Methyl Methacrylate	41	9.701	9.702	(1.097)	662229	100.000	103	
32 2,2-Dichloropropane	77	7.062	7.064	(0.863)	1139729	100.000	97.8	
33 Bromochloromethane	128	7.191	7.185	(0.879)	286445	100.000	81.2	
34 Chloroform	83	7.305	7.307	(0.893)	1353172	100.000	87.3	
35 Carbon Tetrachloride	117	7.470	7.464	(0.845)	908672	100.000	101	
36 Tetrahydrofuran	42	7.506	7.507	(0.917)	1261544	500.000	463	
\$ 37 Dibromofluoromethane	113	7.548	7.550	(0.922)	972083	100.000	127	
38 1,1,1-Trichloroethane	97	7.563	7.564	(0.924)	1227138	100.000	94.3	
39 1,1-Dichloropropene	75	11.009	11.003	(1.245)	1133543	100.000	105	
40 2-Butanone	43	7.720	7.721	(0.943)	2085191	500.000	473	
41 Benzene	78	8.056	8.057	(0.911)	2702699	100.000	90.6	
* 42 Pentafluorobenzene	168	8.185	8.179	(1.000)	677243	50.0000		
43 Cyclohexane	56	7.177	7.178	(0.877)	1191894	100.000	94.5	
44 Ethyl Methacrylate	69	11.195	11.189	(1.266)	874235	100.000	108	
\$ 45 1,2-Dichloroethane-D4	65	8.235	8.236	(1.006)	1189948	100.000	114	
46 Tertiary-amyl methyl ether	73	8.221	8.222	(1.004)	1644927	100.000	98.9	
47 1,2-Dichloroethane	62	8.321	8.321	(0.941)	1048982	100.000	89.2	
48 Trichloroethene	95	8.793	8.794	(0.994)	711591	100.000	89.9	
* 49 1,4-Difluorobenzene	114	8.843	8.844	(1.000)	1200563	50.0000		
50 Dibromomethane	93	9.300	9.302	(1.052)	488879	100.000	94.5	
51 1,2-Dichloropropane	63	9.422	9.423	(1.065)	731668	100.000	95.3	
52 Bromodichloromethane	83	9.508	9.502	(1.075)	1064238	100.000	99.4	
53 cis-1,3-dichloropropene	75	10.244	10.245	(1.158)	1276210	100.000	102	
54 1,4-Dioxane	88	9.744	9.745	(1.102)	192280	2000.00	1720	
\$ 55 Toluene-D8	98	10.459	10.453	(1.183)	3108029	100.000	120	
56 2-Chloroethylvinylether	63	10.180	10.181	(1.151)	321040	100.000	115	
57 Toluene	92	10.516	10.517	(1.189)	1699666	100.000	93.0	
58 4-methyl-2-pentanone	43	10.966	10.960	(1.240)	3368520	500.000	435	
59 Tetrachloroethene	164	10.959	10.960	(0.888)	569303	100.000	104	
60 trans-1,3-Dichloropropene	75	11.009	11.003	(1.245)	1133543	100.000	105	
61 1,1,2-Trichloroethane	83	11.195	11.196	(1.266)	563817	100.000	95.2	
62 Dibromochloromethane	129	11.410	11.411	(0.925)	780245	100.000	114	
63 1,3-Dichloropropane	76	11.524	11.525	(0.934)	1241027	100.000	93.0	
64 1,2-Dibromoethane	107	11.703	11.697	(1.323)	730004	100.000	97.8	
65 2-Hexanone	43	11.982	11.976	(0.971)	2644921	500.000	463	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1182465	50.0000		
67 Chlorobenzene	112	12.360	12.362	(1.002)	1749940	100.000	91.8	
152 1-Chlorohexane	91	12.332	12.333	(0.999)	1080087	100.000	88.9	
68 Ethylbenzene	106	12.396	12.398	(1.005)	1014449	100.000	95.6	
69 1,1,1,2-Tetrachloroethane	131	12.446	12.448	(1.009)	690545	100.000	106	
71 m+p-Xylenes	106	12.589	12.583	(1.020)	2403132	200.000	188	
72 o-Xylene	106	13.161	13.163	(1.067)	1156897	100.000	98.0	
73 Styrene	104	13.233	13.234	(1.072)	2072028	100.000	98.7	
74 Bromoform	173	13.269	13.270	(1.075)	554096	100.000	122	
75 Isopropylbenzene	105	13.590	13.592	(0.866)	2900724	100.000	91.8	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999	(1.583)	1432488	100.000	129	
77 cis-1,4-Dichloro-2-Butene	53	14.098	14.099	(0.898)	312868	100.000	105	
78 trans-1,4-Dichloro-2-Butene	53	14.563	14.557	(0.928)	304306	100.000	109	
79 Bromobenzene	156	14.148	14.149	(0.902)	807799	100.000	95.3	

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
80 N-Propylbenzene	91	14.191	14.192	(0.904)	3493644	100.000	111		
81 1,1,2,2-Tetrachloroethane	83	14.298	14.292	(0.911)	984979	100.000	89.5		
82 1,3,5-Trimethylbenzene	105	14.484	14.478	(0.923)	2772682	100.000	91.1		
83 2-Chlorotoluene	91	14.420	14.421	(0.919)	2284319	100.000	90.3		
84 1,2,3-Trichloropropane	75	14.498	14.500	(0.924)	815710	100.000	90.9		
85 4-Chlorotoluene	91	14.670	14.664	(0.935)	2301509	100.000	88.3		
86 tert-Butylbenzene	119	14.963	14.957	(0.954)	2592299	100.000	98.7		
87 Pentachloroethane	117	14.992	14.993	(0.955)	579139	100.000	106		
88 1,2,4-Trimethylbenzene	105	15.070	15.072	(0.960)	2772884	100.000	92.1		
89 P-Isopropyltoluene	119	15.464	15.465	(0.985)	2779204	100.000	95.4		
90 1,3-Dichlorobenzene	146	15.571	15.572	(0.992)	1410922	100.000	95.0		
* 91 1,4-Dichlorobenzene-D4	152	15.692	15.694	(1.000)	626087	50.0000			
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.001)	1532067	100.000	89.5		
93 N-Butylbenzene	91	16.143	16.143	(1.029)	3037475	100.000	101		
94 sec-Butylbenzene	105	15.235	15.236	(0.971)	3322463	100.000	88.0		
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	1339603	100.000	96.8		
96 1,2-Dibromo-3-Chloropropane	75	17.752	17.753	(1.131)	196568	100.000	104		
97 1,3,5-Trichlorobenzene	180	17.809	17.803	(1.135)	1057751	100.000	92.0		
98 Hexachlorobutadiene	225	18.910	18.911	(1.205)	503149	100.000	89.1		
99 1,2,4-Trichlorobenzene	180	18.953	18.947	(1.208)	961713	100.000	95.5		
100 1,2,3-Trimethylbenzene	105	15.757	15.758	(1.004)	2482483	100.000	87.8		
101 Naphthalene	128	19.539	19.541	(1.245)	2144210	100.000	101		
102 1,2,3-Trichlorobenzene	180	19.875	19.877	(1.267)	784786	100.000	86.8		
103 Methyl Acetate	43	5.139	5.140	(0.628)	667910	100.000	96.0		
104 Methylcyclohexane	83	8.771	8.772	(1.072)	1011629	100.000	90.0		

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Date: 11-APR-2013 15:18

Client ID: Initial Calibration

Sample Info: M012628-5

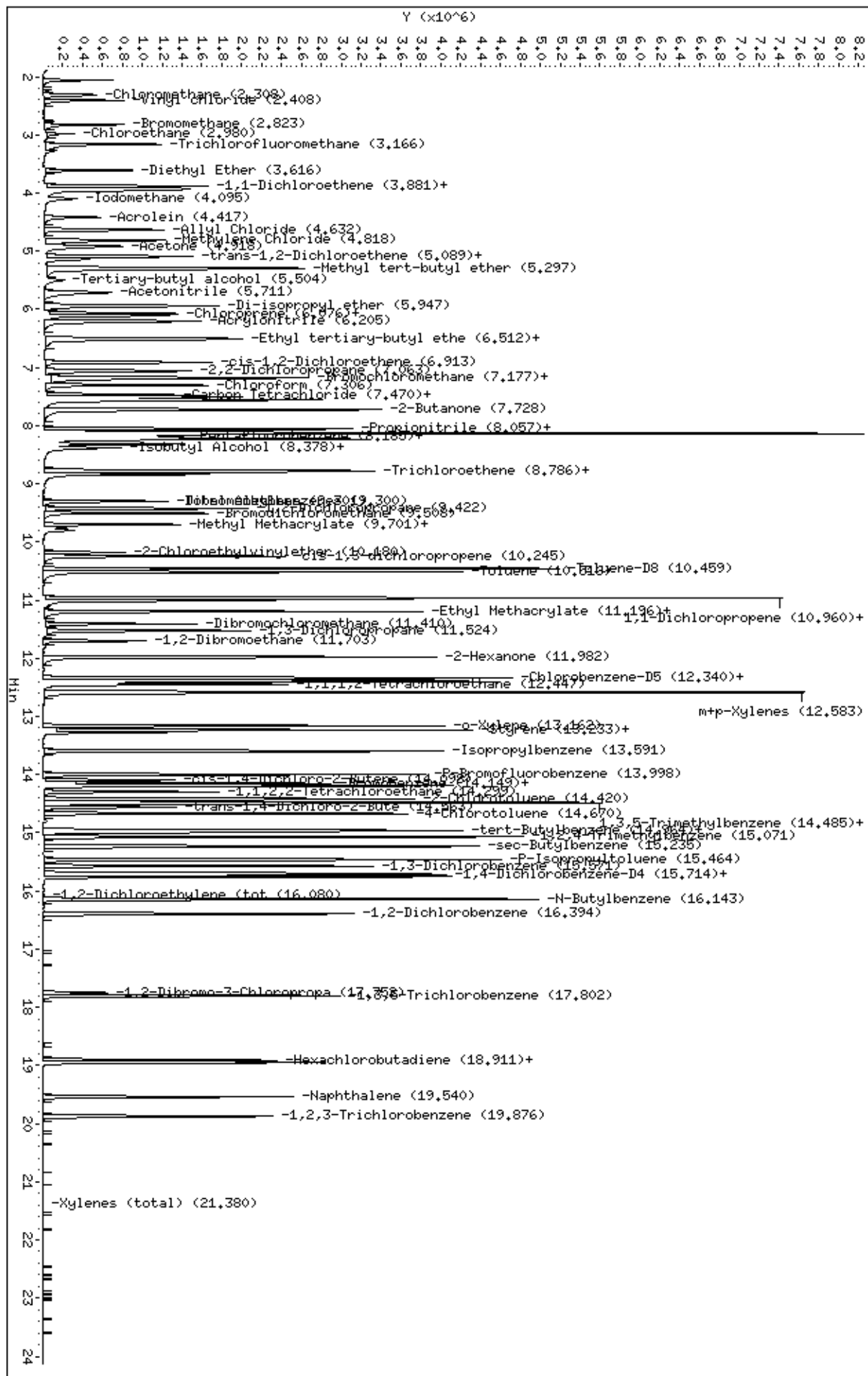
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Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Data File: \\target_server\GG\chem\gcms-c.i\C041113.b\C0397.D
Report Date: 12-Apr-2013 09:07

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-c.i\C041113.b\C0397.D
Lab Smp Id: WG122628-6 Client Smp ID: Initial Calibration
Inj Date : 11-APR-2013 15:49 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122628-6
Misc Info :
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Meth Date : 12-Apr-2013 07:56 rcrocker Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 11 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.057	2.057	(0.251)	1094713		200.000	143	
2 Chloromethane	50	2.307	2.309	(0.282)	1961562		200.000	148	
3 Vinyl chloride	62	2.407	2.409	(0.294)	1397113		200.000	141	
4 Bromomethane	94	2.822	2.824	(0.345)	1004530		200.000	196	
5 Chloroethane	64	2.980	2.988	(0.364)	491295		200.000	188	
6 Trichlorofluoromethane	101	3.158	3.167	(0.386)	2140553		200.000	141	
7 Diethyl Ether	59	3.616	3.610	(0.442)	1017703		200.000	170	
8 Tertiary-butyl alcohol	59	5.511	5.498	(0.673)	767219		1000.00	1060(A)	
9 1,1-Dichloroethene	96	3.888	3.882	(0.475)	1311426		200.000	185	
10 Carbon Disulfide	76	3.916	3.925	(0.479)	4084082		200.000	184	
11 Freon-113	151	3.945	3.946	(0.482)	711732		200.000	177	
12 Iodomethane	142	4.095	4.103	(0.500)	864501		200.000	200(A)	
13 Acrolein	56	4.424	4.418	(0.541)	1351160		1000.00	875	
14 Methylene Chloride	84	4.817	4.818	(0.589)	1595497		200.000	193	
15 Acetone	43	4.924	4.911	(0.602)	3063217		1000.00	836	
16 Isobutyl Alcohol	43	8.385	8.379	(1.024)	1188135		4000.00	4000	
17 trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	1430273		200.000	176	
18 Allyl Chloride	41	4.638	4.633	(0.567)	1559409		200.000	144	
19 Methyl tert-butyl ether	73	5.303	5.297	(0.648)	6876372		400.000	341	
20 Acetonitrile	39	5.718	5.705	(0.699)	516265		2000.00	1820	
21 Di-isopropyl ether	45	5.947	5.941	(0.727)	4216488		200.000	178	
22 Chloroprene	53	6.076	6.070	(0.742)	1770112		200.000	173	
23 Propionitrile	54	8.128	8.106	(0.993)	2133447		2000.00	1670	
24 Methacrylonitrile	41	8.142	8.129	(0.995)	6296656		2000.00	1730	

Compounds	QUANT SIG					AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.111	6.113 (0.747)		2612616	200.000	169	
26 Acrylonitrile	52	6.211	6.198 (0.759)		2527251	1000.00	866	
27 Ethyl tertiary-butyl ether	59	6.505	6.499 (0.795)		3672500	200.000	181	
28 Vinyl Acetate	43	6.526	6.520 (0.738)		3120303	200.000	186	
29 cis-1,2-Dichloroethene	96	6.912	6.913 (0.845)		1577464	200.000	183	
31 Methyl Methacrylate	41	9.701	9.702 (1.097)		1282983	200.000	188	
32 2,2-Dichloropropane	77	7.062	7.064 (0.863)		2187519	200.000	180	
33 Bromochloromethane	128	7.191	7.185 (0.879)		608192	200.000	171	
34 Chloroform	83	7.305	7.307 (0.893)		2646672	200.000	168	
35 Carbon Tetrachloride	117	7.470	7.464 (0.845)		1749211	200.000	184	
36 Tetrahydrofuran	42	7.506	7.507 (0.917)		2467011	1000.00	880	
\$ 37 Dibromofluoromethane	113	7.548	7.550 (0.922)		1762988	200.000	210(A)	
38 1,1,1-Trichloroethane	97	7.563	7.564 (0.924)		2348137	200.000	175	
39 1,1-Dichloropropene	75	11.009	11.003 (1.245)		2250223	200.000	196	
40 2-Butanone	43	7.727	7.721 (0.944)		3766715	1000.00	827	
41 Benzene	78	8.056	8.057 (0.911)		4943467	200.000	160	
* 42 Pentafluorobenzene	168	8.185	8.179 (1.000)		707714	50.0000		
43 Cyclohexane	56	7.177	7.178 (0.877)		2144779	200.000	164	
44 Ethyl Methacrylate	69	11.195	11.189 (1.266)		1692120	200.000	195	
\$ 45 1,2-Dichloroethane-D4	65	8.242	8.236 (1.007)		2063807	200.000	184	
46 Tertiary-amyl methyl ether	73	8.221	8.222 (1.004)		3272745	200.000	189	
47 1,2-Dichloroethane	62	8.321	8.321 (0.941)		2054777	200.000	169	
48 Trichloroethene	95	8.793	8.794 (0.994)		1420576	200.000	173	
* 49 1,4-Difluorobenzene	114	8.843	8.844 (1.000)		1268789	50.0000		
50 Dibromomethane	93	9.307	9.302 (1.053)		988073	200.000	183	
51 1,2-Dichloropropane	63	9.422	9.423 (1.065)		1423526	200.000	177	
52 Bromodichloromethane	83	9.508	9.502 (1.075)		2093030	200.000	185	
53 cis-1,3-dichloropropene	75	10.244	10.245 (1.158)		2502797	200.000	189	
54 1,4-Dioxane	88	9.744	9.745 (1.102)		399180	4000.00	3840	
\$ 55 Toluene-D8	98	10.459	10.453 (1.183)		4982063	200.000	175	
56 2-Chloroethylvinylether	63	10.180	10.181 (1.151)		668190	200.000	220(A)	
57 Toluene	92	10.516	10.517 (1.189)		3237984	200.000	170	
58 4-methyl-2-pentanone	43	10.966	10.960 (1.240)		5564559	1000.00	699	
59 Tetrachloroethene	164	10.959	10.960 (0.888)		1262749	200.000	208(A)	
60 trans-1,3-Dichloropropene	75	11.009	11.003 (1.245)		2250223	200.000	196	
61 1,1,2-Trichloroethane	83	11.195	11.196 (1.266)		1129606	200.000	182	
62 Dibromochloromethane	129	11.410	11.411 (0.925)		1620484	200.000	209(A)	
63 1,3-Dichloropropane	76	11.531	11.525 (0.935)		2422452	200.000	168	
64 1,2-Dibromoethane	107	11.703	11.697 (1.323)		1504094	200.000	191	
65 2-Hexanone	43	11.982	11.976 (0.971)		4643063	1000.00	752	
* 66 Chlorobenzene-D5	117	12.339	12.340 (1.000)		1298801	50.0000		
67 Chlorobenzene	112	12.368	12.362 (1.002)		3454637	200.000	168	
152 1-Chlorohexane	91	12.332	12.333 (0.999)		2082588	200.000	160	
68 Ethylbenzene	106	12.396	12.398 (1.005)		2107765	200.000	182	
69 1,1,1,2-Tetrachloroethane	131	12.446	12.448 (1.009)		1491409	200.000	206(A)	
71 m+p-Xylenes	106	12.589	12.583 (1.020)		4626981	400.000	334	
72 o-Xylene	106	13.161	13.163 (1.067)		2411870	200.000	187	
73 Styrene	104	13.233	13.234 (1.072)		4049790	200.000	176	
74 Bromoform	173	13.276	13.270 (1.076)		1207065	200.000	232(A)	
75 Isopropylbenzene	105	13.597	13.592 (0.867)		5289190	200.000	154	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999 (1.583)		2552415	200.000	205(A)	
77 cis-1,4-Dichloro-2-Butene	53	14.098	14.099 (0.898)		655856	200.000	197	
78 trans-1,4-Dichloro-2-Butene	53	14.563	14.557 (0.928)		617146	200.000	197	
79 Bromobenzene	156	14.155	14.149 (0.902)		1754652	200.000	189	

Compounds	QUANT	SIG						AMOUNTS		REVIEW CODE
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
80 N-Propylbenzene	91	14.191	14.192	(0.904)	6113791	200.000	170			
81 1,1,2,2-Tetrachloroethane	83	14.298	14.292	(0.911)	1991989	200.000	167			
82 1,3,5-Trimethylbenzene	105	14.484	14.478	(0.923)	5134299	200.000	156			
83 2-Chlorotoluene	91	14.420	14.421	(0.919)	4279070	200.000	156			
84 1,2,3-Trichloropropane	75	14.498	14.500	(0.924)	1610172	200.000	166			
85 4-Chlorotoluene	91	14.670	14.664	(0.935)	4353293	200.000	155			
86 tert-Butylbenzene	119	14.963	14.957	(0.954)	5167528	200.000	179			
87 Pentachloroethane	117	14.992	14.993	(0.955)	1258248	200.000	207(A)			
88 1,2,4-Trimethylbenzene	105	15.070	15.072	(0.960)	5129714	200.000	157			
89 P-Isopropyltoluene	119	15.464	15.465	(0.985)	5189544	200.000	163			
90 1,3-Dichlorobenzene	146	15.578	15.572	(0.993)	2875230	200.000	177			
* 91 1,4-Dichlorobenzene-D4	152	15.692	15.694	(1.000)	691163	50.0000				
92 1,4-Dichlorobenzene	146	15.721	15.715	(1.002)	3132290	200.000	169			
93 N-Butylbenzene	91	16.143	16.143	(1.029)	5333612	200.000	173			
94 sec-Butylbenzene	105	15.242	15.236	(0.971)	5937426	200.000	146			
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	2746996	200.000	181			
96 1,2-Dibromo-3-Chloropropane	75	17.752	17.753	(1.131)	413060	200.000	197			
97 1,3,5-Trichlorobenzene	180	17.809	17.803	(1.135)	2221766	200.000	178			
98 Hexachlorobutadiene	225	18.910	18.911	(1.205)	1097164	200.000	194			
99 1,2,4-Trichlorobenzene	180	18.953	18.947	(1.208)	2045576	200.000	186			
100 1,2,3-Trimethylbenzene	105	15.757	15.758	(1.004)	4687891	200.000	154			
101 Naphthalene	128	19.539	19.541	(1.245)	4112140	200.000	175			
102 1,2,3-Trichlorobenzene	180	19.875	19.877	(1.267)	1647017	200.000	170			
103 Methyl Acetate	43	5.146	5.140	(0.629)	1347441	200.000	187			
104 Methylcyclohexane	83	8.771	8.772	(1.072)	2037947	200.000	177			

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\target_server\GC\chem\goms-c.i\CD041113.b\CD0397.D

Date : 11-APR-2013 15:49

Client ID: Initial Calibration

Sample Info: M01262628-6

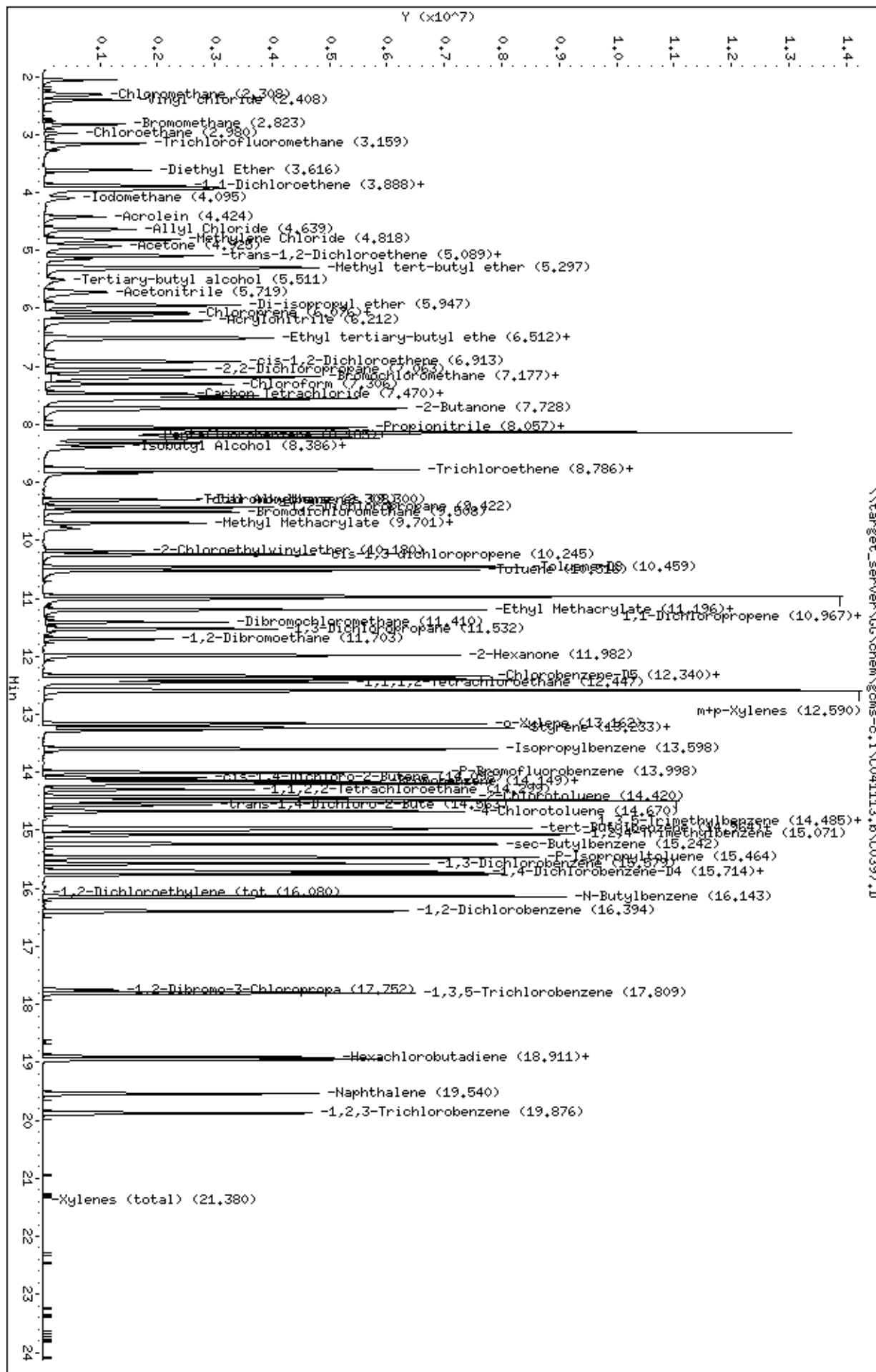
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Data File: \\target_server\GG\chem\gcms-c.i\C041113.b\C0399.D
Report Date: 12-Apr-2013 09:07

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-c.i\C041113.b\C0399.D
Lab Smp Id: WG122628-4 Client Smp ID: Initial Calibration
Inj Date : 11-APR-2013 17:16 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122628-4
Misc Info :
Comment : SW846 5030
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Meth Date : 12-Apr-2013 07:56 rcrocker Quant Type: ISTD
Cal Date : 11-APR-2013 17:16 Cal File: C0399.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

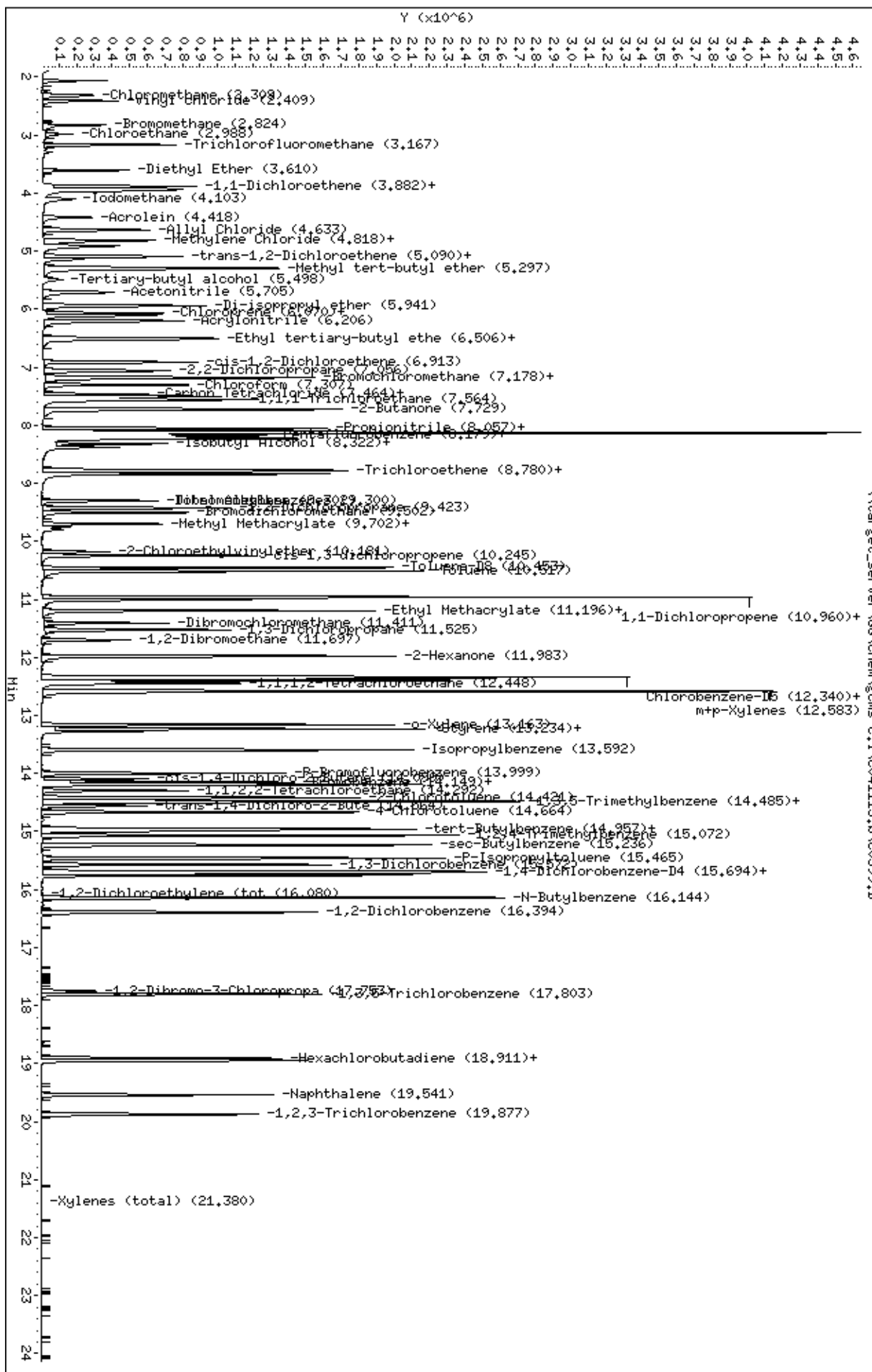
Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.058	2.057 (0.252)		291058		50.0000	50.0	
2 Chloromethane	50	2.308	2.309 (0.282)		488606		50.0000	50.0	
3 Vinyl chloride	62	2.408	2.409 (0.295)		375464		50.0000	50.0	
4 Bromomethane	94	2.823	2.824 (0.345)		250271		50.0000	50.0	
5 Chloroethane	64	2.987	2.988 (0.365)		134445		50.0000	50.0	
6 Trichlorofluoromethane	101	3.166	3.167 (0.387)		583211		50.0000	50.0	
7 Diethyl Ether	59	3.610	3.610 (0.441)		270336		50.0000	50.0	
8 Tertiary-butyl alcohol	59	5.497	5.498 (0.672)		178558		250.000	250	
9 1,1-Dichloroethene	96	3.881	3.882 (0.475)		320950		50.0000	50.0	
10 Carbon Disulfide	76	3.924	3.925 (0.480)		1151100		50.0000	50.0	
11 Freon-113	151	3.946	3.946 (0.482)		183208		50.0000	50.0	
12 Iodomethane	142	4.103	4.103 (0.502)		324211		50.0000	50.0	
13 Acrolein	56	4.418	4.418 (0.540)		336704		250.000	250	
14 Methylene Chloride	84	4.818	4.818 (0.589)		426607		50.0000	50.0	
15 Acetone	43	4.911	4.911 (0.600)		823737		250.000	250	
16 Isobutyl Alcohol	43	8.379	8.379 (1.024)		286513		1000.00	1000	
17 trans-1,2-Dichloroethene	96	5.090	5.090 (0.622)		377050		50.0000	50.0	
18 Allyl Chloride	41	4.632	4.633 (0.566)		483465		50.0000	50.0	
19 Methyl tert-butyl ether	73	5.297	5.297 (0.648)		1914301		100.000	100	
20 Acetonitrile	39	5.705	5.705 (0.698)		135572		500.000	500	
21 Di-isopropyl ether	45	5.940	5.941 (0.726)		1103964		50.0000	50.0	
22 Chloroprene	53	6.069	6.070 (0.742)		473931		50.0000	50.0	
23 Propionitrile	54	8.107	8.106 (0.991)		589007		500.000	500	
24 Methacrylonitrile	41	8.128	8.129 (0.994)		2192951		500.000	500	

Compounds	QUANT SIG					AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.112	6.113 (0.747)		692853	50.0000	50.0	
26 Acrylonitrile	52	6.198	6.198 (0.758)		640225	250.000	250	
27 Ethyl tertiary-butyl ether	59	6.498	6.499 (0.795)		953021	50.0000	50.0	
28 Vinyl Acetate	43	6.520	6.520 (0.737)		809075	50.0000	50.0	
29 cis-1,2-Dichloroethene	96	6.913	6.913 (0.845)		402194	50.0000	50.0	
31 Methyl Methacrylate	41	9.701	9.702 (1.097)		327233	50.0000	50.0	
32 2,2-Dichloropropane	77	7.063	7.064 (0.864)		557089	50.0000	50.0	
33 Bromochloromethane	128	7.185	7.185 (0.878)		160301	50.0000	50.0	
34 Chloroform	83	7.306	7.307 (0.893)		694644	50.0000	50.0	
35 Carbon Tetrachloride	117	7.463	7.464 (0.844)		419045	50.0000	50.0	
36 Tetrahydrofuran	42	7.506	7.507 (0.918)		644628	250.000	250	
\$ 37 Dibromofluoromethane	113	7.549	7.550 (0.923)		363672	50.0000	50.0	
38 1,1,1-Trichloroethane	97	7.564	7.564 (0.925)		624324	50.0000	50.0	
39 1,1-Dichloropropene	75	11.003	11.003 (1.244)		562835	50.0000	50.0	
40 2-Butanone	43	7.721	7.721 (0.944)		1064506	250.000	250	
41 Benzene	78	8.057	8.057 (0.911)		1422490	50.0000	50.0	
* 42 Pentafluorobenzene	168	8.178	8.179 (1.000)		696694	50.0000		
43 Cyclohexane	56	7.177	7.178 (0.878)		613742	50.0000	50.0	
44 Ethyl Methacrylate	69	11.189	11.189 (1.265)		439213	50.0000	50.0	
\$ 45 1,2-Dichloroethane-D4	65	8.236	8.236 (1.007)		455281	50.0000	50.0	
46 Tertiary-amyl methyl ether	73	8.221	8.222 (1.005)		829992	50.0000	50.0	
47 1,2-Dichloroethane	62	8.321	8.321 (0.941)		533516	50.0000	50.0	
48 Trichloroethene	95	8.793	8.794 (0.994)		368816	50.0000	50.0	
* 49 1,4-Difluorobenzene	114	8.843	8.844 (1.000)		1232859	50.0000		
50 Dibromomethane	93	9.301	9.302 (1.052)		241627	50.0000	50.0	
51 1,2-Dichloropropane	63	9.423	9.423 (1.065)		372526	50.0000	50.0	
52 Bromodichloromethane	83	9.501	9.502 (1.074)		529429	50.0000	50.0	
53 cis-1,3-dichloropropene	75	10.245	10.245 (1.158)		649689	50.0000	50.0	
54 1,4-Dioxane	88	9.744	9.745 (1.102)		115472	1000.00	1000	
\$ 55 Toluene-D8	98	10.452	10.453 (1.182)		1216784	50.0000	50.0	
56 2-Chloroethylvinylether	63	10.181	10.181 (1.151)		148903	50.0000	50.0	
57 Toluene	92	10.517	10.517 (1.189)		861701	50.0000	50.0	
58 4-methyl-2-pentanone	43	10.960	10.960 (1.239)		1867647	250.000	250	
59 Tetrachloroethene	164	10.960	10.960 (0.888)		279362	50.0000	50.0	
60 trans-1,3-Dichloropropene	75	11.003	11.003 (1.244)		562835	50.0000	50.0	
61 1,1,2-Trichloroethane	83	11.196	11.196 (1.266)		286695	50.0000	50.0	
62 Dibromochloromethane	129	11.410	11.411 (0.925)		367369	50.0000	50.0	
63 1,3-Dichloropropane	76	11.525	11.525 (0.934)		628348	50.0000	50.0	
64 1,2-Dibromoethane	107	11.696	11.697 (1.323)		363433	50.0000	50.0	
65 2-Hexanone	43	11.975	11.976 (0.970)		1408961	250.000	250	
* 66 Chlorobenzene-D5	117	12.340	12.340 (1.000)		1196598	50.0000		
67 Chlorobenzene	112	12.361	12.362 (1.002)		890462	50.0000	50.0	
152 1-Chlorohexane	91	12.333	12.333 (0.999)		549119	50.0000	50.0	
68 Ethylbenzene	106	12.397	12.398 (1.005)		518943	50.0000	50.0	
69 1,1,1,2-Tetrachloroethane	131	12.447	12.448 (1.009)		338112	50.0000	50.0	
71 m+p-Xylenes	106	12.583	12.583 (1.020)		1230438	100.000	100	
72 o-Xylene	106	13.162	13.163 (1.067)		597265	50.0000	50.0	
73 Styrene	104	13.234	13.234 (1.072)		1069028	50.0000	50.0	
74 Bromoform	173	13.269	13.270 (1.075)		259651	50.0000	50.0	
75 Isopropylbenzene	105	13.591	13.592 (0.866)		1521685	50.0000	50.0	
\$ 76 P-Bromofluorobenzene	95	13.999	13.999 (1.583)		530660	50.0000	50.0	
77 cis-1,4-Dichloro-2-Butene	53	14.099	14.099 (0.898)		141805	50.0000	50.0	
78 trans-1,4-Dichloro-2-Butene	53	14.556	14.557 (0.928)		139851	50.0000	50.0	
79 Bromobenzene	156	14.149	14.149 (0.902)		402025	50.0000	50.0	

Compounds	QUANT	SIG						AMOUNTS		REVIEW CODE
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
								(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	=====	
80 N-Propylbenzene	91		14.192	14.192	(0.904)	1874891	50.0000	50.0		
81 1,1,2,2-Tetrachloroethane	83		14.292	14.292	(0.911)	497090	50.0000	50.0		
82 1,3,5-Trimethylbenzene	105		14.478	14.478	(0.923)	1444875	50.0000	50.0		
83 2-Chlorotoluene	91		14.421	14.421	(0.919)	1163250	50.0000	50.0		
84 1,2,3-Trichloropropane	75		14.499	14.500	(0.924)	407891	50.0000	50.0		
85 4-Chlorotoluene	91		14.664	14.664	(0.934)	1183411	50.0000	50.0		
86 tert-Butylbenzene	119		14.957	14.957	(0.953)	1289050	50.0000	50.0		
87 Pentachloroethane	117		14.993	14.993	(0.955)	266815	50.0000	50.0		
88 1,2,4-Trimethylbenzene	105		15.071	15.072	(0.960)	1453604	50.0000	50.0		
89 P-Isopropyltoluene	119		15.464	15.465	(0.985)	1439896	50.0000	50.0		
90 1,3-Dichlorobenzene	146		15.572	15.572	(0.992)	701740	50.0000	50.0		
* 91 1,4-Dichlorobenzene-D4	152		15.693	15.694	(1.000)	637940	50.0000			
92 1,4-Dichlorobenzene	146		15.715	15.715	(1.001)	785277	50.0000	50.0		
93 N-Butylbenzene	91		16.144	16.143	(1.029)	1665819	50.0000	50.0		
94 sec-Butylbenzene	105		15.236	15.236	(0.971)	1761052	50.0000	50.0		
95 1,2-Dichlorobenzene	146		16.394	16.393	(1.045)	673977	50.0000	50.0		
96 1,2-Dibromo-3-Chloropropane	75		17.753	17.753	(1.131)	96097	50.0000	50.0		
97 1,3,5-Trichlorobenzene	180		17.803	17.803	(1.134)	546750	50.0000	50.0		
98 Hexachlorobutadiene	225		18.911	18.911	(1.205)	291922	50.0000	50.0		
99 1,2,4-Trichlorobenzene	180		18.947	18.947	(1.207)	507162	50.0000	50.0		
100 1,2,3-Trimethylbenzene	105		15.758	15.758	(1.004)	1306589	50.0000	50.0		
101 Naphthalene	128		19.540	19.541	(1.245)	1134546	50.0000	50.0		
102 1,2,3-Trichlorobenzene	180		19.876	19.877	(1.267)	421870	50.0000	50.0		
103 Methyl Acetate	43		5.140	5.140	(0.628)	332436	50.0000	50.0		
104 Methylcyclohexane	83		8.772	8.772	(1.073)	526565	50.0000	50.0		

Data File: \\target_server\GC\chem\goms-c.i\CO41113.b\CO399.D
 Date : 11-APR-2013 17:16
 Client ID: Initial Calibration
 Sample Info: MG12628-4
 Purge Volume: 5.0
 Column phase: RTX-WHS

Instrument: goms-c.i
 Operator: REC
 Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C041113.b\C0400A.D
 Report Date: 23-Apr-2013 10:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041113.b\C0400A.D
 Lab Smp Id: WG122628-7 Client Smp ID: Independent Source
 Inj Date : 11-APR-2013 17:47 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122628-7,SG2375
 Misc Info : WG122628,WG122628-4,SG2375-1
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041113.b\C826A67.m
 Meth Date : 16-Apr-2013 12:47 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 14 QC Sample: IND CHECK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.059	2.057 (0.252)		518869		94.8314	94.8	
2 Chloromethane	50	2.309	2.309 (0.282)		631243		65.9570	66.0	
3 Vinyl chloride	62	2.409	2.409 (0.295)		494845		70.1919	70.2	
4 Bromomethane	94	2.824	2.824 (0.345)		292948		59.2158	59.2	
5 Chloroethane	64	2.981	2.988 (0.365)		162338		63.2715	63.3	
6 Trichlorofluoromethane	101	3.167	3.167 (0.387)		669563		50.4561	50.4	
7 Diethyl Ether	59	3.610	3.610 (0.441)		257987		45.6386	45.6	
8 Tertiary-butyl alcohol	59	5.491	5.498 (0.671)		162745		229.393	229	
9 1,1-Dichloroethene	96	3.882	3.882 (0.475)		336433		49.6224	49.6	
10 Carbon Disulfide	76	3.925	3.925 (0.480)		1238858		59.6794	59.7	
11 Freon-113	151	3.946	3.946 (0.483)		168762		44.2607	44.3	
12 Iodomethane	142	4.104	4.103 (0.502)		351590		58.5875	58.6	
13 Acrolein	56	4.418	4.418 (0.540)		316106		215.949	216	
14 Methylene Chloride	84	4.819	4.818 (0.589)		445385		54.5387	54.5	
15 Acetone	43	4.919	4.911 (0.601)		209683		60.1532	60.2	
16 Isobutyl Alcohol	43	8.380	8.379 (1.024)		265333		946.306	946	
17 trans-1,2-Dichloroethene	96	5.090	5.090 (0.622)		371925		48.2308	48.2	
18 Allyl Chloride	41	4.633	4.633 (0.566)		464039		46.3669	46.4	
19 Methyl tert-butyl ether	73	5.291	5.297 (0.647)		1932077		101.595	102	
20 Acetonitrile	39	5.705	5.705 (0.698)		121828		449.649	450	
21 Di-isopropyl ether	45	5.941	5.941 (0.726)		1086160		48.2796	48.3	
22 Chloroprene	53	6.070	6.070 (0.742)		455156		47.0003	47.0	
23 Propionitrile	54	8.108	8.106 (0.991)		549999		458.542	458	
24 Methacrylonitrile	41	8.129	8.129 (0.994)		2117748		451.778	452	

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.106	6.113 (0.747)	728144	50.0301	50.0	
26 Acrylonitrile	52	6.206	6.198 (0.759)	630733	228.505	228	
27 Ethyl tertiary-butyl ether	59	6.499	6.499 (0.795)	926894	47.9817	48.0	
28 Vinyl Acetate	43	6.521	6.520 (0.738)	1051546	65.3432	65.3	
29 cis-1,2-Dichloroethene	96	6.914	6.913 (0.845)	407425	49.5632	49.6	
M 30 1,2-Dichloroethylene (total)	96			779350	97.7939	97.8	
31 Methyl Methacrylate	41	9.695	9.702 (1.097)	319330	48.7353	48.7	
32 2,2-Dichloropropane	77	7.057	7.064 (0.863)	575288	49.8430	49.8	
33 Bromochloromethane	128	7.185	7.185 (0.878)	165490	49.3860	49.4	
34 Chloroform	83	7.300	7.307 (0.892)	710046	47.7599	47.8	
35 Carbon Tetrachloride	117	7.464	7.464 (0.845)	424833	46.7476	46.7	
36 Tetrahydrofuran	42	7.507	7.507 (0.918)	134323	50.5165	50.5	
\$ 37 Dibromofluoromethane	113	7.550	7.550 (0.923)	354544	43.1969	43.2	
38 1,1,1-Trichloroethane	97	7.564	7.564 (0.925)	621691	48.8138	48.8	
39 1,1-Dichloropropene	75	11.004	11.003 (1.245)	618045	55.5840	55.6	
40 2-Butanone	43	7.722	7.721 (0.944)	245215	57.2724	57.3	
41 Benzene	78	8.058	8.057 (0.912)	1455229	50.1580	50.2	
* 42 Pentafluorobenzene	168	8.179	8.179 (1.000)	684913	50.0000		
43 Cyclohexane	56	7.171	7.178 (0.877)	605155	49.4180	49.4	
44 Ethyl Methacrylate	69	11.190	11.189 (1.266)	429208	51.1768	51.2	
\$ 45 1,2-Dichloroethane-D4	65	8.237	8.236 (1.007)	445015	41.5221	41.5	
46 Tertiary-amyl methyl ether	73	8.215	8.222 (1.004)	815195	49.0393	49.0	
47 1,2-Dichloroethane	62	8.322	8.321 (0.942)	553515	48.1549	48.2	
48 Trichloroethene	95	8.794	8.794 (0.995)	386559	49.7079	49.7	
* 49 1,4-Difluorobenzene	114	8.837	8.844 (1.000)	1230919	50.0000		
50 Dibromomethane	93	9.302	9.302 (1.053)	258782	50.0576	50.0	
51 1,2-Dichloropropane	63	9.423	9.423 (1.066)	393829	51.4881	51.5	
52 Bromodichloromethane	83	9.502	9.502 (1.075)	562179	51.9256	51.9	
53 cis-1,3-dichloropropene	75	10.246	10.245 (1.159)	612129	48.1190	48.1	
54 1,4-Dioxane	88	9.745	9.745 (1.103)	93216	813.881	814	
\$ 55 Toluene-D8	98	10.453	10.453 (1.183)	1203775	44.6126	44.6	
56 2-Chloroethylvinylether	63	10.181	10.181 (1.152)	158076	52.6740	52.7	
57 Toluene	92	10.517	10.517 (1.190)	899709	49.9310	49.9	
58 4-methyl-2-pentanone	43	10.961	10.960 (1.240)	418590	57.0360	57.0	
59 Tetrachloroethene	164	10.961	10.960 (0.888)	284452	50.3135	50.3	
60 trans-1,3-Dichloropropene	75	11.004	11.003 (1.245)	618045	55.5840	55.6	
61 1,1,2-Trichloroethane	83	11.197	11.196 (1.267)	305296	51.5312	51.5	
62 Dibromochloromethane	129	11.411	11.411 (0.925)	404943	56.1701	56.2	
63 1,3-Dichloropropane	76	11.526	11.525 (0.934)	652370	50.1881	50.2	
64 1,2-Dibromoethane	107	11.697	11.697 (1.324)	382903	50.6051	50.6	
65 2-Hexanone	43	11.976	11.976 (0.970)	325901	59.5535	59.6	
* 66 Chlorobenzene-D5	117	12.341	12.340 (1.000)	1200285	50.0000		
67 Chlorobenzene	112	12.362	12.362 (1.002)	999832	54.0067	54.0	
152 1-Chlorohexane	91	12.326	12.333 (0.999)	578473	49.6552	49.6	
68 Ethylbenzene	106	12.391	12.398 (1.004)	525117	49.9306	49.9	
69 1,1,1,2-Tetrachloroethane	131	12.441	12.448 (1.008)	354394	52.8066	52.8	
M 70 Xylenes (total)	106			1985097	162.390	162	
71 m+p-Xylenes	106	12.584	12.583 (1.020)	1339101	107.662	108	
72 o-Xylene	106	13.163	13.163 (1.067)	645996	54.7287	54.7	
73 Styrene	104	13.234	13.234 (1.072)	1079923	51.8461	51.8	
74 Bromoform	173	13.270	13.270 (1.075)	266386	54.0384	54.0	
75 Isopropylbenzene	105	13.592	13.592 (0.866)	1696695	55.9287	55.9	
\$ 76 P-Bromofluorobenzene	95	14.000	13.999 (1.584)	527397	43.4974	43.5	
77 cis-1,4-Dichloro-2-Butene	53	14.100	14.099 (0.899)	140395	46.0972	46.1	

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 Report Date: 23-Apr-2013 10:50

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN		FINAL
							(ug/l)		(ug/l)
=====	====	====	=====	=====	=====	=====	=====	=====	
78 trans-1,4-Dichloro-2-Butene	53	14.557	14.557	(0.928)	136633	47.6612	47.7		
79 Bromobenzene	156	14.150	14.149	(0.902)	425641	50.4066	50.4		
80 N-Propylbenzene	91	14.185	14.192	(0.904)	2122915	54.0200	54.0		
81 1,1,2,2-Tetrachloroethane	83	14.293	14.292	(0.911)	518769	48.7766	48.8		
82 1,3,5-Trimethylbenzene	105	14.479	14.478	(0.923)	1447806	49.5724	49.6		
83 2-Chlorotoluene	91	14.414	14.421	(0.919)	1283125	52.9192	52.9		
84 1,2,3-Trichloropropane	75	14.493	14.500	(0.924)	421229	48.5355	48.5		
85 4-Chlorotoluene	91	14.665	14.664	(0.935)	1336504	53.7910	53.8		
86 tert-Butylbenzene	119	14.958	14.957	(0.954)	1413625	54.1539	54.2		
87 Pentachloroethane	117	14.986	14.993	(0.955)	267074	47.5310	47.5		
88 1,2,4-Trimethylbenzene	105	15.072	15.072	(0.961)	1474051	50.8677	50.9		
89 P-Isopropyltoluene	119	15.465	15.465	(0.986)	1613477	56.8579	56.8		
90 1,3-Dichlorobenzene	146	15.573	15.572	(0.993)	797729	54.5144	54.5		
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.694	(1.000)	635150	50.0000			
92 1,4-Dichlorobenzene	146	15.716	15.715	(1.002)	812518	49.0416	49.0		
93 N-Butylbenzene	91	16.137	16.143	(1.029)	1682515	47.9808	48.0		
94 sec-Butylbenzene	105	15.237	15.236	(0.971)	1920458	53.8112	53.8		
95 1,2-Dichlorobenzene	146	16.395	16.393	(1.045)	747252	54.4355	54.4		
96 1,2-Dibromo-3-Chloropropane	75	17.746	17.753	(1.131)	97957	50.9851	51.0		
97 1,3,5-Trichlorobenzene	180	17.803	17.803	(1.135)	517186	45.9080	45.9		
98 Hexachlorobutadiene	225	18.912	18.911	(1.206)	253632	48.5566	48.6		
99 1,2,4-Trichlorobenzene	180	18.947	18.947	(1.208)	486284	48.6121	48.6		
100 1,2,3-Trimethylbenzene	105	15.751	15.758	(1.004)	1297024	48.1936	48.2		
101 Naphthalene	128	19.541	19.541	(1.246)	1127578	53.4389	53.4		
102 1,2,3-Trichlorobenzene	180	19.877	19.877	(1.267)	406567	46.7186	46.7		
103 Methyl Acetate	43	5.141	5.140	(0.629)	276830	40.1063	40.1		
104 Methylcyclohexane	83	8.773	8.772	(1.073)	496606	45.4326	45.4		
M 153 Total Alkylbenzenes	100				11674847	367.264	367		

Data File: \\target_server\gs\chem\goms-c.i\CO41113.b\CO4009.D

Date : 11-APR-2013 17:47

Client ID: Independent Source

Sample Info: MG12628-7,SG2375

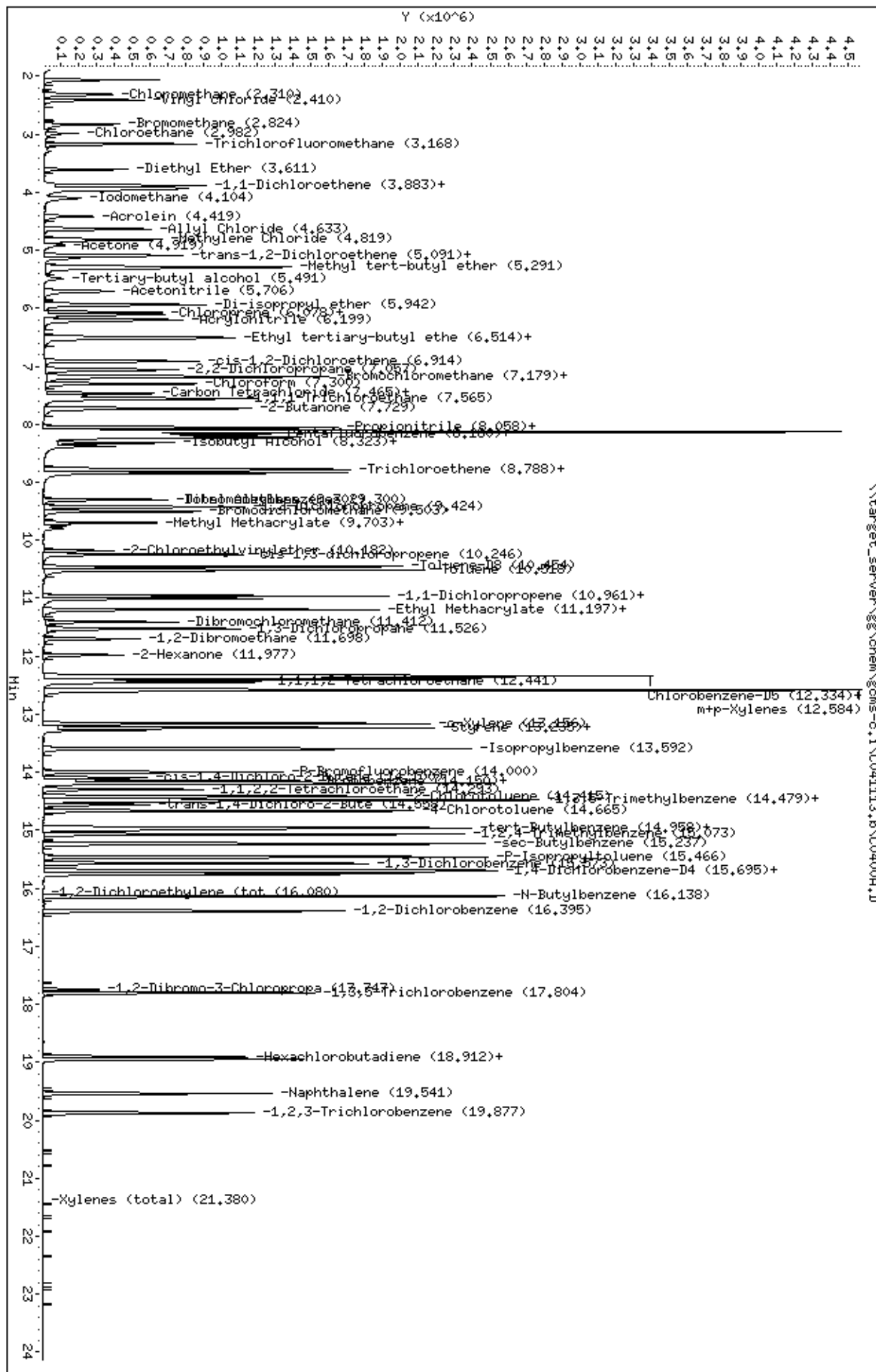
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services

Project : Former Griffiss Air Force Base, AOC 9

SDG: SG2375

Lab ID : WG122737-4

Analytical Date: 04/15/13 08:45

Lab File ID : C0433.D

Instrument ID: GCMS-C

Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16

Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
1 Dichlorodifluoromethane	50.00000	44.89204	0.36931	0.010	-10.21592	20.00000	Linear
2 Chloromethane	50.00000	45.46977	0.64048	0.100	-9.06045	20.00000	Linear
3 Vinyl chloride	50.00000	48.48493	0.50733	0.010	-3.03014	20.00000	Linear
4 Bromomethane	0.36115	0.30986	0.30986	0.010	-14.20259	20.00000	Averaged
5 Chloroethane	50.00000	58.77109	0.22157	0.010	17.54217	20.00000	Linear
6 Trichlorofluoromethane	50.00000	47.79376	0.93083	0.010	-4.41249	20.00000	Quadratic
9 1,1-Dichloroethene	0.49494	0.41084	0.41084	0.100	-16.99281	20.00000	Averaged
10 Carbon Disulfide	50.00000	49.40189	1.51020	0.010	-1.19623	20.00000	Linear
11 Freon-113	0.27835	0.23944	0.23944	0.010	-13.97741	20.00000	Averaged
14 Methylene Chloride	50.00000	47.61537	0.57294	0.010	-4.76926	20.00000	Linear
15 Acetone	250	259	0.23594	0.010	3.55284	20.00000	Linear
17 trans-1,2-Dichloroethene	0.56294	0.49371	0.49371	0.010	-12.29935	20.00000	Averaged
19 Methyl tert-butyl ether	1.38831	1.42513	1.42513	0.010	2.65155	20.00000	Averaged
25 1,1-Dichloroethane	1.06248	0.98905	0.98905	0.100	-6.91093	20.00000	Averaged
29 cis-1,2-Dichloroethene	0.60010	0.53567	0.53567	0.010	-10.73659	20.00000	Averaged
33 Bromochloromethane	0.24463	0.21931	0.21931	0.010	-10.34897	20.00000	Averaged
34 Chloroform	1.08532	1.00746	1.00746	0.010	-7.17387	20.00000	Averaged
35 Carbon Tetrachloride	0.36915	0.38729	0.38729	0.010	4.91460	20.00000	Averaged
38 1,1,1-Trichloroethane	0.92975	0.90209	0.90209	0.010	-2.97535	20.00000	Averaged
40 2-Butanone	0.31256	0.30193	0.30193	0.010	-3.40106	20.00000	Averaged
41 Benzene	1.17850	1.12192	1.12192	0.010	-4.80131	20.00000	Averaged
43 Cyclohexane	0.89396	0.83314	0.83314	0.010	-6.80295	20.00000	Averaged
47 1,2-Dichloroethane	0.46691	0.46940	0.46940	0.010	0.53321	20.00000	Averaged
48 Trichloroethene	0.31589	0.28343	0.28343	0.010	-10.27521	20.00000	Averaged
51 1,2-Dichloropropane	0.31070	0.29616	0.29616	0.010	-4.68041	20.00000	Averaged
52 Bromodichloromethane	0.43978	0.44607	0.44607	0.010	1.43099	20.00000	Averaged
53 cis-1,3-dichloropropene	0.51673	0.52428	0.52428	0.010	1.45960	20.00000	Averaged
54 1,4-Dioxane	0.00465	0.00385	0.00385	0.001	-17.23641	20.00000	Averaged
57 Toluene	0.73194	0.69084	0.69084	0.010	-5.61454	20.00000	Averaged
58 4-methyl-2-pentanone	0.29811	0.31510	0.31510	0.010	5.69827	20.00000	Averaged
59 Tetrachloroethene	0.23551	0.23158	0.23158	0.010	-1.66961	20.00000	Averaged
60 trans-1,3-Dichloropropene	0.45166	0.47692	0.47692	0.010	5.59248	20.00000	Averaged
61 1,1,2-Trichloroethane	0.24065	0.23318	0.23318	0.010	-3.10499	20.00000	Averaged
62 Dibromochloromethane	0.30031	0.33761	0.33761	0.010	12.41941	20.00000	Averaged
64 1,2-Dibromoethane	0.30735	0.29904	0.29904	0.010	-2.70430	20.00000	Averaged
65 2-Hexanone	0.22796	0.24656	0.24656	0.010	8.16003	20.00000	Averaged
67 Chlorobenzene	0.77120	0.76368	0.76368	0.300	-0.97448	20.00000	Averaged
68 Ethylbenzene	0.43810	0.44185	0.44185	0.010	0.85633	20.00000	Averaged
71 m+p-Xylenes	0.51813	0.52047	0.52047	0.010	0.45270	20.00000	Averaged
72 o-Xylene	0.49170	0.48722	0.48722	0.010	-0.91029	20.00000	Averaged
73 Styrene	0.86769	0.89521	0.89521	0.010	3.17236	20.00000	Averaged

Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services

Project : Former Griffiss Air Force Base, AOC 9

SDG: SG2375

Lab ID : WG122737-4

Analytical Date: 04/15/13 08:45

Lab File ID : C0433.D

Instrument ID: GCMS-C

Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16

Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	0.20535	0.23084	0.23084	0.100	12.41484	20.00000	Averaged
75 Isopropylbenzene	2.38816	2.43215	2.43215	0.010	1.84199	20.00000	Averaged
80 N-Propylbenzene	50.00000	47.57124	3.01030	0.010	-4.85751	20.00000	Quadratic
81 1,1,2,2-Tetrachloroethane	0.83725	0.79327	0.79327	0.300	-5.25311	20.00000	Averaged
82 1,3,5-Trimethylbenzene	2.29913	2.35593	2.35593	0.010	2.47036	20.00000	Averaged
85 4-Chlorotoluene	1.95594	1.96972	1.96972	0.010	0.70479	20.00000	Averaged
86 tert-Butylbenzene	2.05493	2.21199	2.21199	0.010	7.64282	20.00000	Averaged
88 1,2,4-Trimethylbenzene	2.28121	2.36620	2.36620	0.010	3.72594	20.00000	Averaged
89 P-Isopropyltoluene	2.23391	2.35385	2.35385	0.010	5.36882	20.00000	Averaged
90 1,3-Dichlorobenzene	1.15196	1.13467	1.13467	0.010	-1.50125	20.00000	Averaged
92 1,4-Dichlorobenzene	1.30425	1.24574	1.24574	0.010	-4.48613	20.00000	Averaged
93 N-Butylbenzene	50.00000	48.03395	2.65143	0.010	-3.93210	20.00000	Quadratic
94 sec-Butylbenzene	2.80948	2.84172	2.84172	0.010	1.14747	20.00000	Averaged
95 1,2-Dichlorobenzene	1.08063	1.09179	1.09179	0.010	1.03231	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.15125	0.16278	0.16278	0.010	7.62220	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.78748	0.73704	0.73704	0.010	-6.40556	20.00000	Averaged
101 Naphthalene	1.66105	1.70677	1.70677	0.010	2.75276	20.00000	Averaged
102 1,2,3-Trichlorobenzene	0.68507	0.59622	0.59622	0.010	-12.96986	20.00000	Averaged
103 Methyl Acetate	0.50389	0.49400	0.49400	0.010	-1.96275	20.00000	Averaged
104 Methylcyclohexane	0.79796	0.76901	0.76901	0.010	-3.62756	20.00000	Averaged
37 Dibromofluoromethane	0.59917	0.53842	0.53842	0.010	-10.13947	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.78240	0.73605	0.73605	0.010	-5.92373	20.00000	Averaged
55 Toluene-D8	1.09604	1.06105	1.06105	0.010	-3.19249	20.00000	Averaged
76 P-Bromofluorobenzene	0.49251	0.46329	0.46329	0.010	-5.93370	20.00000	Averaged

* = Compound out of QC criteria

Data File: \\target_server\gg\chem\gcms-c.i\C041513.b\C0433.D
 Report Date: 23-Apr-2013 10:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041513.b\C0433.D
 Lab Smp Id: WG122737-4 Client Smp ID: ontinuing Calibrati
 Inj Date : 15-APR-2013 08:45
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122737-4,SG2375
 Misc Info : WG122737,WG122628-4,SG2375-1
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041513.b\C826A67.m
 Meth Date : 23-Apr-2013 10:52 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.051	2.057 (0.251)		231953		50.0000	44.9	
2 Chloromethane	50	2.302	2.309 (0.281)		402271		50.0000	45.5	
3 Vinyl chloride	62	2.402	2.409 (0.294)		318644		50.0000	48.5	
4 Bromomethane	94	2.816	2.824 (0.344)		194614		50.0000	42.9	
5 Chloroethane	64	2.981	2.988 (0.364)		139163		50.0000	58.8	
6 Trichlorofluoromethane	101	3.160	3.167 (0.386)		584633		50.0000	47.8	
7 Diethyl Ether	59	3.603	3.610 (0.441)		233385		50.0000	45.0	
8 Tertiary-butyl alcohol	59	5.491	5.498 (0.671)		182422		250.000	280	
9 1,1-Dichloroethene	96	3.875	3.882 (0.474)		258038		50.0000	41.5	
10 Carbon Disulfide	76	3.918	3.925 (0.479)		948520		50.0000	49.4	
11 Freon-113	151	3.946	3.946 (0.483)		150389		50.0000	43.0	
12 Iodomethane	142	4.089	4.103 (0.500)		250280		50.0000	42.4	
13 Acrolein	56	4.411	4.418 (0.539)		226423		250.000	169	
14 Methylene Chloride	84	4.811	4.818 (0.588)		359849		50.0000	47.6	
15 Acetone	43	4.911	4.911 (0.601)		740940		250.000	259	
16 Isobutyl Alcohol	43	8.379	8.379 (1.024)		269850		1000.00	1050	
17 trans-1,2-Dichloroethene	96	5.083	5.090 (0.621)		310085		50.0000	43.8	
18 Allyl Chloride	41	4.625	4.633 (0.566)		464708		50.0000	50.6	
19 Methyl tert-butyl ether	73	5.290	5.297 (0.647)		1790175		100.000	103	
20 Acetonitrile	39	5.705	5.705 (0.698)		122199		500.000	492	
21 Di-isopropyl ether	45	5.934	5.941 (0.726)		1071999		50.0000	52.0	
22 Chloroprene	53	6.070	6.070 (0.742)		462997		50.0000	52.1	
23 Propionitrile	54	8.108	8.106 (0.991)		555698		500.000	505	
24 Methacrylonitrile	41	8.129	8.129 (0.994)		2247366		500.000	545	

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT			CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.105	6.113 (0.746)		621200	50.0000	46.5	
26 Acrylonitrile	52	6.198	6.198 (0.758)		490487	250.000	194	
27 Ethyl tertiary-butyl ether	59	6.499	6.499 (0.795)		947465	50.0000	53.5	
28 Vinyl Acetate	43	6.520	6.520 (0.738)		770293	50.0000	53.5	
29 cis-1,2-Dichloroethene	96	6.906	6.913 (0.844)		336441	50.0000	44.6	
M 30 1,2-Dichloroethylene (total)	96				646526	50.0000	(a)	
31 Methyl Methacrylate	41	9.695	9.702 (1.097)		342780	50.0000	58.5	
32 2,2-Dichloropropane	77	7.056	7.064 (0.863)		539419	50.0000	51.0	
33 Bromochloromethane	128	7.185	7.185 (0.878)		137743	50.0000	44.8	
34 Chloroform	83	7.300	7.307 (0.892)		632762	50.0000	46.4	
35 Carbon Tetrachloride	117	7.464	7.464 (0.845)		426166	50.0000	52.4	
36 Tetrahydrofuran	42	7.500	7.507 (0.917)		569475	250.000	234	
\$ 37 Dibromofluoromethane	113	7.543	7.550 (0.922)		338169	50.0000	44.9	
38 1,1,1-Trichloroethane	97	7.564	7.564 (0.925)		566580	50.0000	48.5	
39 1,1-Dichloropropene	75	11.003	11.003 (1.245)		524793	50.0000	52.8	
40 2-Butanone	43	7.721	7.721 (0.944)		948180	250.000	241	
41 Benzene	78	8.050	8.057 (0.911)		1234543	50.0000	47.6	
* 42 Pentafluorobenzene	168	8.179	8.179 (1.000)		628076	50.0000		
43 Cyclohexane	56	7.171	7.178 (0.877)		523276	50.0000	46.6	
44 Ethyl Methacrylate	69	11.189	11.189 (1.266)		435422	50.0000	58.1	
\$ 45 1,2-Dichloroethane-D4	65	8.229	8.236 (1.006)		462298	50.0000	47.0	
46 Tertiary-amyl methyl ether	73	8.215	8.222 (1.004)		847638	50.0000	55.6	
47 1,2-Dichloroethane	62	8.315	8.321 (0.941)		516515	50.0000	50.3	
48 Trichloroethene	95	8.787	8.794 (0.994)		311880	50.0000	44.9	
* 49 1,4-Difluorobenzene	114	8.837	8.844 (1.000)		1100383	50.0000		
50 Dibromomethane	93	9.302	9.302 (1.053)		222692	50.0000	48.2	
51 1,2-Dichloropropane	63	9.423	9.423 (1.066)		325887	50.0000	47.6	
52 Bromodichloromethane	83	9.502	9.502 (1.075)		490849	50.0000	50.7	
53 cis-1,3-dichloropropene	75	10.238	10.245 (1.159)		576904	50.0000	50.7	
54 1,4-Dioxane	88	9.745	9.745 (1.103)		84739	1000.00	828	
\$ 55 Toluene-D8	98	10.453	10.453 (1.183)		1167565	50.0000	48.4	
56 2-Chloroethylvinylether	63	10.181	10.181 (1.152)		155402	50.0000	57.9	
57 Toluene	92	10.510	10.517 (1.189)		760189	50.0000	47.2	
58 4-methyl-2-pentanone	43	10.960	10.960 (1.240)		1733653	250.000	264	
59 Tetrachloroethene	164	10.960	10.960 (0.888)		238961	50.0000	49.2	
60 trans-1,3-Dichloropropene	75	11.003	11.003 (1.245)		524793	50.0000	52.8	
61 1,1,2-Trichloroethane	83	11.196	11.196 (1.267)		256588	50.0000	48.4	
62 Dibromochloromethane	129	11.411	11.411 (0.925)		348373	50.0000	56.2	
63 1,3-Dichloropropane	76	11.525	11.525 (0.934)		570050	50.0000	51.0	
64 1,2-Dibromoethane	107	11.697	11.697 (1.324)		329058	50.0000	48.6	
65 2-Hexanone	43	11.976	11.976 (0.970)		1272125	250.000	270	
* 66 Chlorobenzene-D5	117	12.340	12.340 (1.000)		1031879	50.0000		
67 Chlorobenzene	112	12.362	12.362 (1.002)		788027	50.0000	49.5	
152 1-Chlorohexane	91	12.326	12.333 (0.999)		475334	50.0000	47.5	
68 Ethylbenzene	106	12.398	12.398 (1.005)		455939	50.0000	50.4	
69 1,1,1,2-Tetrachloroethane	131	12.440	12.448 (1.008)		315327	50.0000	54.6	
M 70 Xylenes (total)	106				1576889	150.000	(a)	
71 m+p-Xylenes	106	12.583	12.583 (1.020)		1074133	100.000	100	
72 o-Xylene	106	13.156	13.163 (1.066)		502756	50.0000	49.5	
73 Styrene	104	13.234	13.234 (1.072)		923750	50.0000	51.6	
74 Bromoform	173	13.270	13.270 (1.075)		238203	50.0000	56.2	
75 Isopropylbenzene	105	13.592	13.592 (0.866)		1359626	50.0000	50.9	
\$ 76 P-Bromofluorobenzene	95	13.999	13.999 (1.584)		509792	50.0000	47.0	
77 cis-1,4-Dichloro-2-Butene	53	14.099	14.099 (0.899)		160686	50.0000	59.9	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT		ON-COL
							(ug/l)		(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
78 trans-1,4-Dichloro-2-Butene	53	14.557	14.557	(0.928)	160820	50.0000	63.7		
79 Bromobenzene	156	14.149	14.149	(0.902)	352328	50.0000	47.4		
80 N-Propylbenzene	91	14.185	14.192	(0.904)	1682828	50.0000	47.6		
81 1,1,2,2-Tetrachloroethane	83	14.292	14.292	(0.911)	443456	50.0000	47.4		
82 1,3,5-Trimethylbenzene	105	14.478	14.478	(0.923)	1317020	50.0000	51.2		
83 2-Chlorotoluene	91	14.414	14.421	(0.919)	1046714	50.0000	49.0		
84 1,2,3-Trichloropropane	75	14.493	14.500	(0.924)	370311	50.0000	48.5		
85 4-Chlorotoluene	91	14.664	14.664	(0.935)	1101119	50.0000	50.4		
86 tert-Butylbenzene	119	14.957	14.957	(0.954)	1236553	50.0000	53.8		
87 Pentachloroethane	117	14.986	14.993	(0.955)	309032	50.0000	62.5		
88 1,2,4-Trimethylbenzene	105	15.065	15.072	(0.960)	1322761	50.0000	51.9		
89 P-Isopropyltoluene	119	15.465	15.465	(0.986)	1315854	50.0000	52.7		
90 1,3-Dichlorobenzene	146	15.572	15.572	(0.993)	634305	50.0000	49.2		
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.694	(1.000)	559023	50.0000			
92 1,4-Dichlorobenzene	146	15.715	15.715	(1.002)	696399	50.0000	47.8		
93 N-Butylbenzene	91	16.137	16.143	(1.029)	1482213	50.0000	48.0		
94 sec-Butylbenzene	105	15.236	15.236	(0.971)	1588586	50.0000	50.6		
95 1,2-Dichlorobenzene	146	16.395	16.393	(1.045)	610335	50.0000	50.5		
96 1,2-Dibromo-3-Chloropropane	75	17.746	17.753	(1.131)	90995	50.0000	53.8		
97 1,3,5-Trichlorobenzene	180	17.803	17.803	(1.135)	552158	50.0000	55.7		
98 Hexachlorobutadiene	225	18.904	18.911	(1.205)	211687	50.0000	45.9		
99 1,2,4-Trichlorobenzene	180	18.947	18.947	(1.208)	412021	50.0000	46.8		
100 1,2,3-Trimethylbenzene	105	15.751	15.758	(1.004)	1398642	50.0000	59.0		
101 Naphthalene	128	19.541	19.541	(1.246)	954126	50.0000	51.4		
102 1,2,3-Trichlorobenzene	180	19.877	19.877	(1.267)	333300	50.0000	43.5		
103 Methyl Acetate	43	5.133	5.140	(0.628)	310269	50.0000	49.0		
104 Methylcyclohexane	83	8.765	8.772	(1.072)	482997	50.0000	48.2		
M 153 Total Alkylbenzenes	100				9945815	50.0000	(a)		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\goms-c.i\CO41513.b\CO433.D

Date : 15-APR-2013 08:45

Client ID: continuing Calibrati

Sample Info: M3122737-4,SG2375

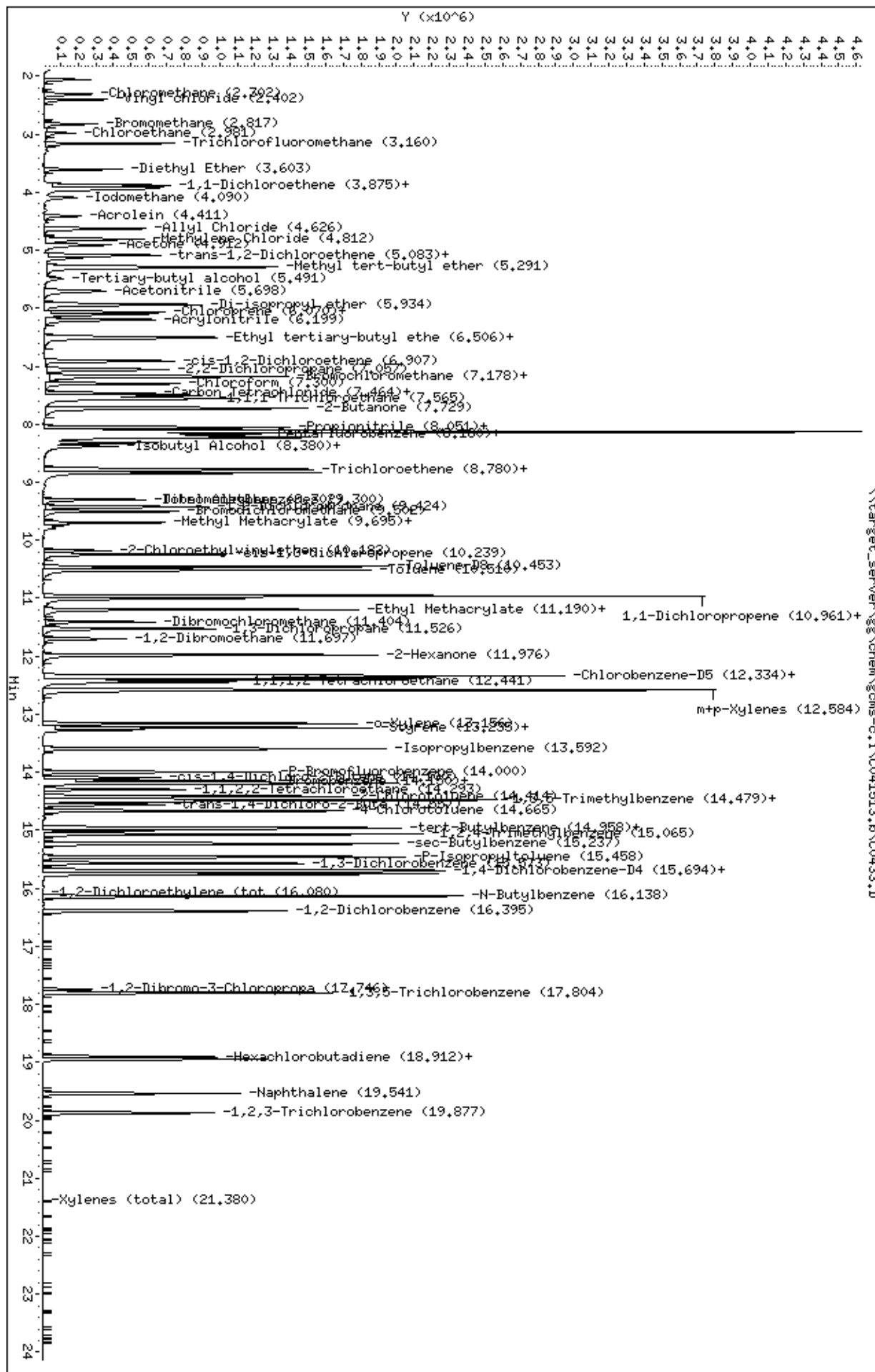
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services

Project : Former Griffiss Air Force Base, AOC 9

SDG: SG2375

Lab ID : WG122853-4

Analytical Date: 04/18/13 09:00

Lab File ID : C0509.D

Instrument ID: GCMS-C

Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16

Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	50.00000	87.83382	0.70317	0.010	75.66764	20.00000	Linear	*
2 Chloromethane	50.00000	48.98232	0.68869	0.100	-2.03536	20.00000	Linear	
3 Vinyl chloride	50.00000	54.44292	0.56639	0.010	8.88585	20.00000	Linear	
4 Bromomethane	0.36115	0.37849	0.37849	0.010	4.80014	20.00000	Averaged	
5 Chloroethane	50.00000	64.37292	0.24080	0.010	28.74583	20.00000	Linear	*
6 Trichlorofluoromethane	50.00000	48.80330	0.94863	0.010	-2.39341	20.00000	Quadratic	
9 1,1-Dichloroethene	0.49494	0.40442	0.40442	0.100	-18.28879	20.00000	Averaged	
10 Carbon Disulfide	50.00000	48.73144	1.49072	0.010	-2.53712	20.00000	Linear	
11 Freon-113	0.27835	0.30145	0.30145	0.010	8.29899	20.00000	Averaged	
14 Methylene Chloride	50.00000	45.29653	0.54703	0.010	-9.40693	20.00000	Linear	
15 Acetone	250	226	0.20724	0.010	-9.50604	20.00000	Linear	
17 trans-1,2-Dichloroethene	0.56294	0.47662	0.47662	0.010	-15.33399	20.00000	Averaged	
19 Methyl tert-butyl ether	1.38831	1.42014	1.42014	0.010	2.29246	20.00000	Averaged	
25 1,1-Dichloroethane	1.06248	0.91984	0.91984	0.100	-13.42516	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.60010	0.51677	0.51677	0.010	-13.88527	20.00000	Averaged	
33 Bromochloromethane	0.24463	0.23194	0.23194	0.010	-5.18748	20.00000	Averaged	
34 Chloroform	1.08532	1.00321	1.00321	0.010	-7.56525	20.00000	Averaged	
35 Carbon Tetrachloride	0.36915	0.43985	0.43985	0.010	19.15332	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.92975	0.92545	0.92545	0.010	-0.46273	20.00000	Averaged	
40 2-Butanone	0.31256	0.28261	0.28261	0.010	-9.58409	20.00000	Averaged	
41 Benzene	1.17850	1.13664	1.13664	0.010	-3.55229	20.00000	Averaged	
43 Cyclohexane	0.89396	0.80731	0.80731	0.010	-9.69211	20.00000	Averaged	
47 1,2-Dichloroethane	0.46691	0.49076	0.49076	0.010	5.11001	20.00000	Averaged	
48 Trichloroethene	0.31589	0.29834	0.29834	0.010	-5.55554	20.00000	Averaged	
51 1,2-Dichloropropane	0.31070	0.28426	0.28426	0.010	-8.50858	20.00000	Averaged	
52 Bromodichloromethane	0.43978	0.47363	0.47363	0.010	7.69707	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.51673	0.53703	0.53703	0.010	3.92877	20.00000	Averaged	
54 1,4-Dioxane	0.00465	0.00428	0.00428	0.001	-7.96864	20.00000	Averaged	
57 Toluene	0.73194	0.71744	0.71744	0.010	-1.98052	20.00000	Averaged	
58 4-methyl-2-pentanone	0.29811	0.30725	0.30725	0.010	3.06450	20.00000	Averaged	
59 Tetrachloroethene	0.23551	0.26271	0.26271	0.010	11.54919	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.45166	0.49771	0.49771	0.010	10.19660	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24065	0.23136	0.23136	0.010	-3.86038	20.00000	Averaged	
62 Dibromochloromethane	0.30031	0.35432	0.35432	0.010	17.98356	20.00000	Averaged	
64 1,2-Dibromoethane	0.30735	0.30949	0.30949	0.010	0.69530	20.00000	Averaged	
65 2-Hexanone	0.22796	0.23814	0.23814	0.010	4.46408	20.00000	Averaged	
67 Chlorobenzene	0.77120	0.79860	0.79860	0.300	3.55377	20.00000	Averaged	
68 Ethylbenzene	0.43810	0.45517	0.45517	0.010	3.89489	20.00000	Averaged	
71 m+p-Xylenes	0.51813	0.53801	0.53801	0.010	3.83636	20.00000	Averaged	
72 o-Xylene	0.49170	0.50794	0.50794	0.010	3.30271	20.00000	Averaged	
73 Styrene	0.86769	0.93385	0.93385	0.010	7.62546	20.00000	Averaged	

Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab ID : WG122853-4
Lab File ID : C0509.D
Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16

SDG: SG2375
Analytical Date: 04/18/13 09:00
Instrument ID: GCMS-C
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	0.20535	0.24083	0.24083	0.100	17.27637	20.00000	Averaged
75 Isopropylbenzene	2.38816	2.45415	2.45415	0.010	2.76331	20.00000	Averaged
80 N-Propylbenzene	50.00000	47.20758	2.99117	0.010	-5.58485	20.00000	Quadratic
81 1,1,2,2-Tetrachloroethane	0.83725	0.74223	0.74223	0.300	-11.34946	20.00000	Averaged
82 1,3,5-Trimethylbenzene	2.29913	2.39436	2.39436	0.010	4.14164	20.00000	Averaged
85 4-Chlorotoluene	1.95594	1.93433	1.93433	0.010	-1.10439	20.00000	Averaged
86 tert-Butylbenzene	2.05493	2.25222	2.25222	0.010	9.60057	20.00000	Averaged
88 1,2,4-Trimethylbenzene	2.28121	2.40014	2.40014	0.010	5.21354	20.00000	Averaged
89 P-Isopropyltoluene	2.23391	2.49428	2.49428	0.010	11.65525	20.00000	Averaged
90 1,3-Dichlorobenzene	1.15196	1.20434	1.20434	0.010	4.54668	20.00000	Averaged
92 1,4-Dichlorobenzene	1.30425	1.33090	1.33090	0.010	2.04324	20.00000	Averaged
93 N-Butylbenzene	50.00000	50.53259	2.76473	0.010	1.06518	20.00000	Quadratic
94 sec-Butylbenzene	2.80948	2.91211	2.91211	0.010	3.65288	20.00000	Averaged
95 1,2-Dichlorobenzene	1.08063	1.12260	1.12260	0.010	3.88380	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.15125	0.16528	0.16528	0.010	9.27601	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.78748	0.85948	0.85948	0.010	9.14278	20.00000	Averaged
101 Naphthalene	1.66105	1.88142	1.88142	0.010	13.26710	20.00000	Averaged
102 1,2,3-Trichlorobenzene	0.68507	0.70083	0.70083	0.010	2.30024	20.00000	Averaged
103 Methyl Acetate	0.50389	0.49613	0.49613	0.010	-1.54039	20.00000	Averaged
104 Methylcyclohexane	0.79796	0.80690	0.80690	0.010	1.12130	20.00000	Averaged
37 Dibromofluoromethane	0.59917	0.53377	0.53377	0.010	-10.91563	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.78240	0.69262	0.69262	0.010	-11.47499	20.00000	Averaged
55 Toluene-D8	1.09604	1.02882	1.02882	0.010	-6.13379	20.00000	Averaged
76 P-Bromofluorobenzene	0.49251	0.46036	0.46036	0.010	-6.52825	20.00000	Averaged

* = Compound out of QC criteria

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0509.D
 Report Date: 23-Apr-2013 11:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0509.D
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 Inj Date : 18-APR-2013 09:00 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122853-4,SG2375
 Misc Info : WG122853,WG122628-4,SG2375-2
 Comment : SW846 5030
 Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
 Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12
 Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.053	2.057 (0.251)		445127		50.0000	87.8	
2 Chloromethane	50	2.303	2.309 (0.282)		435961		50.0000	49.0	
3 Vinyl chloride	62	2.403	2.409 (0.294)		358543		50.0000	54.4	
4 Bromomethane	94	2.818	2.824 (0.345)		239594		50.0000	52.4	
5 Chloroethane	64	2.975	2.988 (0.364)		152435		50.0000	64.4	
6 Trichlorofluoromethane	101	3.161	3.167 (0.386)		600512		50.0000	48.8	
7 Diethyl Ether	59	3.605	3.610 (0.441)		247761		50.0000	47.4	
8 Tertiary-butyl alcohol	59	5.492	5.498 (0.671)		169101		250.000	258	
9 1,1-Dichloroethene	96	3.876	3.882 (0.474)		256014		50.0000	40.8	
10 Carbon Disulfide	76	3.912	3.925 (0.478)		943676		50.0000	48.7	
11 Freon-113	151	3.941	3.946 (0.482)		190828		50.0000	54.1	
12 Iodomethane	142	4.091	4.103 (0.500)		318274		50.0000	57.0	
13 Acrolein	56	4.412	4.418 (0.539)		277118		250.000	205	
14 Methylene Chloride	84	4.813	4.818 (0.588)		346291		50.0000	45.3	
15 Acetone	43	4.906	4.911 (0.600)		655943		250.000	226	
16 Isobutyl Alcohol	43	8.381	8.379 (1.024)		223076		1000.00	863	
17 trans-1,2-Dichloroethene	96	5.085	5.090 (0.622)		301718		50.0000	42.3	
18 Allyl Chloride	41	4.627	4.633 (0.566)		487614		50.0000	52.7	
19 Methyl tert-butyl ether	73	5.292	5.297 (0.647)		1797992		100.000	102	
20 Acetonitrile	39	5.699	5.705 (0.697)		114799		500.000	458	
21 Di-isopropyl ether	45	5.935	5.941 (0.726)		1013942		50.0000	48.8	
22 Chloroprene	53	6.071	6.070 (0.742)		493585		50.0000	55.1	
23 Propionitrile	54	8.109	8.106 (0.991)		509716		500.000	460	

Compounds	QUANT SIG			RESPONSE	AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
24 Methacrylonitrile	41	8.131	8.129 (0.994)	2070928	500.000	485	
25 1,1-Dichloroethane	63	6.107	6.113 (0.747)	582289	50.0000	43.3	
26 Acrylonitrile	52	6.200	6.198 (0.758)	562973	250.000	221	
27 Ethyl tertiary-butyl ether	59	6.500	6.499 (0.795)	899504	50.0000	50.4	
28 Vinyl Acetate	43	6.522	6.520 (0.738)	670028	50.0000	49.0	
29 cis-1,2-Dichloroethene	96	6.908	6.913 (0.844)	327135	50.0000	43.0	
M 30 1,2-Dichloroethylene (total)	96			628853	50.0000	85.4	
31 Methyl Methacrylate	41	9.696	9.702 (1.097)	304063	50.0000	54.6	
32 2,2-Dichloropropane	77	7.058	7.064 (0.863)	544713	50.0000	51.1	
33 Bromochloromethane	128	7.187	7.185 (0.879)	146823	50.0000	47.4	
34 Chloroform	83	7.301	7.307 (0.892)	635067	50.0000	46.2	
35 Carbon Tetrachloride	117	7.466	7.464 (0.845)	460330	50.0000	59.6	
36 Tetrahydrofuran	42	7.501	7.507 (0.917)	516440	250.000	210	
\$ 37 Dibromofluoromethane	113	7.544	7.550 (0.922)	337894	50.0000	44.5	
38 1,1,1-Trichloroethane	97	7.559	7.564 (0.924)	585840	50.0000	49.8	
39 1,1-Dichloropropene	75	11.005	11.003 (1.245)	520887	50.0000	55.1	
40 2-Butanone	43	7.723	7.721 (0.944)	894494	250.000	226	
41 Benzene	78	8.052	8.057 (0.911)	1189563	50.0000	48.2	
* 42 Pentafluorobenzene	168	8.181	8.179 (1.000)	633033	50.0000		
43 Cyclohexane	56	7.172	7.178 (0.877)	511056	50.0000	45.2	
44 Ethyl Methacrylate	69	11.191	11.189 (1.266)	396715	50.0000	55.6	
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236 (1.006)	438452	50.0000	44.3	
46 Tertiary-amyl methyl ether	73	8.216	8.222 (1.004)	772593	50.0000	50.3	
47 1,2-Dichloroethane	62	8.316	8.321 (0.941)	513615	50.0000	52.6	
48 Trichloroethene	95	8.788	8.794 (0.994)	312228	50.0000	47.2	
* 49 1,4-Difluorobenzene	114	8.838	8.844 (1.000)	1046560	50.0000		
50 Dibromomethane	93	9.303	9.302 (1.053)	214217	50.0000	48.7	
51 1,2-Dichloropropane	63	9.425	9.423 (1.066)	297499	50.0000	45.7	
52 Bromodichloromethane	83	9.503	9.502 (1.075)	495680	50.0000	53.8	
53 cis-1,3-dichloropropene	75	10.240	10.245 (1.159)	562039	50.0000	52.0	
54 1,4-Dioxane	88	9.739	9.745 (1.102)	89619	1000.00	920	
\$ 55 Toluene-D8	98	10.454	10.453 (1.183)	1076717	50.0000	46.9	
56 2-Chloroethylvinylether	63	10.175	10.181 (1.151)	154021	50.0000	60.4	
57 Toluene	92	10.512	10.517 (1.189)	750843	50.0000	49.0	
58 4-methyl-2-pentanone	43	10.962	10.960 (1.240)	1607769	250.000	258	
59 Tetrachloroethene	164	10.955	10.960 (0.888)	262541	50.0000	55.8	
60 trans-1,3-Dichloropropene	75	11.005	11.003 (1.245)	520887	50.0000	55.1	
61 1,1,2-Trichloroethane	83	11.191	11.196 (1.266)	242135	50.0000	48.1	
62 Dibromochloromethane	129	11.405	11.411 (0.925)	354092	50.0000	59.0	
63 1,3-Dichloropropane	76	11.527	11.525 (0.934)	536237	50.0000	49.5	
64 1,2-Dibromoethane	107	11.698	11.697 (1.324)	323898	50.0000	50.3	
65 2-Hexanone	43	11.977	11.976 (0.971)	1189930	250.000	261	
* 66 Chlorobenzene-D5	117	12.335	12.340 (1.000)	999356	50.0000		
67 Chlorobenzene	112	12.363	12.362 (1.002)	798089	50.0000	51.8	
152 1-Chlorohexane	91	12.328	12.333 (0.999)	477239	50.0000	49.2	
68 Ethylbenzene	106	12.392	12.398 (1.005)	454872	50.0000	51.9	
69 1,1,1,2-Tetrachloroethane	131	12.442	12.448 (1.009)	323479	50.0000	57.9	
M 70 Xylenes (total)	106			1582931	150.000	155	
71 m+p-Xylenes	106	12.585	12.583 (1.020)	1075319	100.000	104	
72 o-Xylene	106	13.157	13.163 (1.067)	507612	50.0000	51.6	
73 Styrene	104	13.229	13.234 (1.072)	933249	50.0000	53.8	
74 Bromoform	173	13.271	13.270 (1.076)	240672	50.0000	58.6	
75 Isopropylbenzene	105	13.593	13.592 (0.866)	1368046	50.0000	51.4	
\$ 76 P-Bromofluorobenzene	95	13.994	13.999 (1.583)	481792	50.0000	46.7	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
77 cis-1,4-Dichloro-2-Butene	53	14.094	14.099	(0.898)	148466	50.0000	55.5	
78 trans-1,4-Dichloro-2-Butene	53	14.559	14.557	(0.928)	137894	50.0000	54.8	
79 Bromobenzene	156	14.144	14.149	(0.902)	372223	50.0000	50.2	
80 N-Propylbenzene	91	14.187	14.192	(0.904)	1667402	50.0000	47.2	
81 1,1,2,2-Tetrachloroethane	83	14.294	14.292	(0.911)	413749	50.0000	44.3	
82 1,3,5-Trimethylbenzene	105	14.480	14.478	(0.923)	1334715	50.0000	52.1	
83 2-Chlorotoluene	91	14.416	14.421	(0.919)	1059877	50.0000	49.8	
84 1,2,3-Trichloropropane	75	14.494	14.500	(0.924)	354950	50.0000	46.6	
85 4-Chlorotoluene	91	14.666	14.664	(0.935)	1078279	50.0000	49.4	
86 tert-Butylbenzene	119	14.959	14.957	(0.954)	1255482	50.0000	54.8	
87 Pentachloroethane	117	14.988	14.993	(0.955)	284578	50.0000	57.7	
88 1,2,4-Trimethylbenzene	105	15.066	15.072	(0.960)	1337937	50.0000	52.6	
89 P-Isopropyltoluene	119	15.459	15.465	(0.985)	1390416	50.0000	55.8	
90 1,3-Dichlorobenzene	146	15.567	15.572	(0.992)	671348	50.0000	52.3	
* 91 1,4-Dichlorobenzene-D4	152	15.688	15.694	(1.000)	557442	50.0000		
92 1,4-Dichlorobenzene	146	15.710	15.715	(1.001)	741901	50.0000	51.0	
93 N-Butylbenzene	91	16.139	16.143	(1.029)	1541176	50.0000	50.5	
94 sec-Butylbenzene	105	15.231	15.236	(0.971)	1623331	50.0000	51.8	
95 1,2-Dichlorobenzene	146	16.389	16.393	(1.045)	625786	50.0000	51.9	
96 1,2-Dibromo-3-Chloropropane	75	17.747	17.753	(1.131)	92132	50.0000	54.6	
97 1,3,5-Trichlorobenzene	180	17.805	17.803	(1.135)	566411	50.0000	57.3	
98 Hexachlorobutadiene	225	18.906	18.911	(1.205)	269941	50.0000	59.3	
99 1,2,4-Trichlorobenzene	180	18.949	18.947	(1.208)	479109	50.0000	54.6	
100 1,2,3-Trimethylbenzene	105	15.753	15.758	(1.004)	1300758	50.0000	55.1	
101 Naphthalene	128	19.535	19.541	(1.245)	1048784	50.0000	56.6	
102 1,2,3-Trichlorobenzene	180	19.871	19.877	(1.267)	390672	50.0000	51.2	
103 Methyl Acetate	43	5.135	5.140	(0.628)	314065	50.0000	49.2	
104 Methylcyclohexane	83	8.767	8.772	(1.072)	510797	50.0000	50.6	
M 153 Total Alkylbenzenes	100				10150459	50.0000	365	

Data File: \\target_server\gs\chem\goms-c.i\CD041813.b\CD0509.D

Date : 18-APR-2013 09:00

Client ID: continuing Calibrati

Sample Info: MG122853-4,SG2375

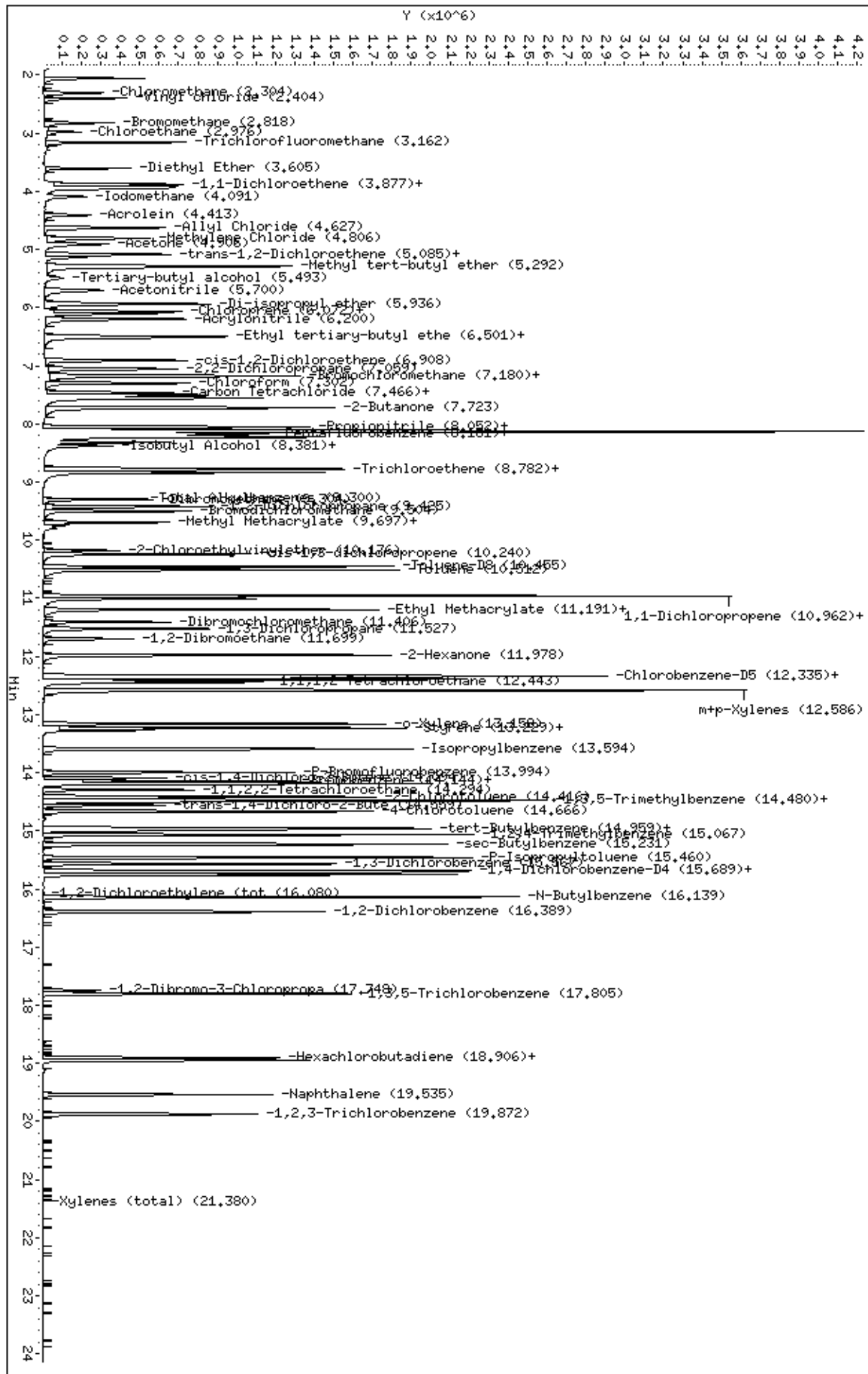
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab ID : WG122901-4
Lab File ID : C0535.D
Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16
SDG: SG2375
Analytical Date: 04/19/13 09:52
Instrument ID: GCMS-C
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	50.00000	82.14124	0.65891	0.010	64.28248	20.00000	Linear	*
2 Chloromethane	50.00000	49.80220	0.69994	0.100	-0.39561	20.00000	Linear	
3 Vinyl chloride	50.00000	52.63993	0.54852	0.010	5.27985	20.00000	Linear	
4 Bromomethane	0.36115	0.37254	0.37254	0.010	3.15490	20.00000	Averaged	
5 Chloroethane	50.00000	65.42729	0.24442	0.010	30.85457	20.00000	Linear	*
6 Trichlorofluoromethane	50.00000	45.92422	0.89766	0.010	-8.15155	20.00000	Quadratic	
9 1,1-Dichloroethene	0.49494	0.40637	0.40637	0.100	-17.89658	20.00000	Averaged	
10 Carbon Disulfide	50.00000	47.66613	1.45977	0.010	-4.66773	20.00000	Linear	
11 Freon-113	0.27835	0.28988	0.28988	0.010	4.14341	20.00000	Averaged	
14 Methylene Chloride	50.00000	46.22173	0.55737	0.010	-7.55654	20.00000	Linear	
15 Acetone	250	216	0.19863	0.010	-13.42276	20.00000	Linear	
17 trans-1,2-Dichloroethene	0.56294	0.48231	0.48231	0.010	-14.32390	20.00000	Averaged	
19 Methyl tert-butyl ether	1.38831	1.40452	1.40452	0.010	1.16721	20.00000	Averaged	
25 1,1-Dichloroethane	1.06248	0.95934	0.95934	0.100	-9.70726	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.60010	0.53405	0.53405	0.010	-11.00677	20.00000	Averaged	
33 Bromochloromethane	0.24463	0.22608	0.22608	0.010	-7.58256	20.00000	Averaged	
34 Chloroform	1.08532	1.02694	1.02694	0.010	-5.37892	20.00000	Averaged	
35 Carbon Tetrachloride	0.36915	0.44144	0.44144	0.010	19.58320	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.92975	0.95999	0.95999	0.010	3.25239	20.00000	Averaged	
40 2-Butanone	0.31256	0.27674	0.27674	0.010	-11.46230	20.00000	Averaged	
41 Benzene	1.17850	1.15212	1.15212	0.010	-2.23878	20.00000	Averaged	
43 Cyclohexane	0.89396	0.80615	0.80615	0.010	-9.82197	20.00000	Averaged	
47 1,2-Dichloroethane	0.46691	0.49132	0.49132	0.010	5.22894	20.00000	Averaged	
48 Trichloroethene	0.31589	0.29798	0.29798	0.010	-5.66961	20.00000	Averaged	
51 1,2-Dichloropropane	0.31070	0.28816	0.28816	0.010	-7.25318	20.00000	Averaged	
52 Bromodichloromethane	0.43978	0.47232	0.47232	0.010	7.40004	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.51673	0.55105	0.55105	0.010	6.64178	20.00000	Averaged	
54 1,4-Dioxane	0.00465	0.00400	0.00400	0.001	-14.03747	20.00000	Averaged	
57 Toluene	0.73194	0.73756	0.73756	0.010	0.76816	20.00000	Averaged	
58 4-methyl-2-pentanone	0.29811	0.30843	0.30843	0.010	3.46092	20.00000	Averaged	
59 Tetrachloroethene	0.23551	0.26485	0.26485	0.010	12.45665	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.45166	0.50116	0.50116	0.010	10.96037	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24065	0.22795	0.22795	0.010	-5.27895	20.00000	Averaged	
62 Dibromochloromethane	0.30031	0.35011	0.35011	0.010	16.58311	20.00000	Averaged	
64 1,2-Dibromoethane	0.30735	0.31417	0.31417	0.010	2.21967	20.00000	Averaged	
65 2-Hexanone	0.22796	0.23727	0.23727	0.010	4.08159	20.00000	Averaged	
67 Chlorobenzene	0.77120	0.80553	0.80553	0.300	4.45252	20.00000	Averaged	
68 Ethylbenzene	0.43810	0.44278	0.44278	0.010	1.06744	20.00000	Averaged	
71 m+p-Xylenes	0.51813	0.55073	0.55073	0.010	6.29302	20.00000	Averaged	
72 o-Xylene	0.49170	0.51945	0.51945	0.010	5.64275	20.00000	Averaged	
73 Styrene	0.86769	0.94990	0.94990	0.010	9.47550	20.00000	Averaged	

Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services

Project : Former Griffiss Air Force Base, AOC 9

SDG: SG2375

Lab ID : WG122901-4

Analytical Date: 04/19/13 09:52

Lab File ID : C0535.D

Instrument ID: GCMS-C

Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16

Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	0.20535	0.24705	0.24705	0.100	20.30546	20.00000	Averaged	*
75 Isopropylbenzene	2.38816	2.50830	2.50830	0.010	5.03063	20.00000	Averaged	
80 N-Propylbenzene	50.00000	48.79321	3.07427	0.010	-2.41358	20.00000	Quadratic	
81 1,1,2,2-Tetrachloroethane	0.83725	0.76155	0.76155	0.300	-9.04223	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.29913	2.43365	2.43365	0.010	5.85077	20.00000	Averaged	
85 4-Chlorotoluene	1.95594	1.98340	1.98340	0.010	1.40425	20.00000	Averaged	
86 tert-Butylbenzene	2.05493	2.28432	2.28432	0.010	11.16273	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.28121	2.45864	2.45864	0.010	7.77817	20.00000	Averaged	
89 P-Isopropyltoluene	2.23391	2.52977	2.52977	0.010	13.24391	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.15196	1.21422	1.21422	0.010	5.40475	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.30425	1.35859	1.35859	0.010	4.16610	20.00000	Averaged	
93 N-Butylbenzene	50.00000	51.46584	2.80658	0.010	2.93167	20.00000	Quadratic	
94 sec-Butylbenzene	2.80948	2.98133	2.98133	0.010	6.11691	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.08063	1.15936	1.15936	0.010	7.28500	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	0.15125	0.17020	0.17020	0.010	12.53062	20.00000	Averaged	
99 1,2,4-Trichlorobenzene	0.78748	0.87130	0.87130	0.010	10.64386	20.00000	Averaged	
101 Naphthalene	1.66105	1.87202	1.87202	0.010	12.70130	20.00000	Averaged	
102 1,2,3-Trichlorobenzene	0.68507	0.71303	0.71303	0.010	4.08095	20.00000	Averaged	
103 Methyl Acetate	0.50389	0.46399	0.46399	0.010	-7.91773	20.00000	Averaged	
104 Methylcyclohexane	0.79796	0.75632	0.75632	0.010	-5.21852	20.00000	Averaged	
37 Dibromofluoromethane	0.59917	0.52269	0.52269	0.010	-12.76425	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.78240	0.69097	0.69097	0.010	-11.68547	20.00000	Averaged	
55 Toluene-D8	1.09604	1.04839	1.04839	0.010	-4.34806	20.00000	Averaged	
76 P-Bromofluorobenzene	0.49251	0.47077	0.47077	0.010	-4.41363	20.00000	Averaged	

* = Compound out of QC criteria

Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0535.D
 Report Date: 23-Apr-2013 11:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041913.b\C0535.D
 Lab Smp Id: WG122901-4 Client Smp ID: ontinuing Calibrati
 Inj Date : 19-APR-2013 09:52 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122901-4,SG2375
 Misc Info : WG122901,WG122628-4,SG2375-11
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041913.b\C826A67.m
 Meth Date : 23-Apr-2013 11:05 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.053	2.057 (0.251)		409235		50.0000	82.1	
2 Chloromethane	50	2.311	2.309 (0.283)		434718		50.0000	49.8	
3 Vinyl chloride	62	2.404	2.409 (0.294)		340674		50.0000	52.6	
4 Bromomethane	94	2.819	2.824 (0.345)		231380		50.0000	51.6	
5 Chloroethane	64	2.983	2.988 (0.365)		151805		50.0000	65.4	
6 Trichlorofluoromethane	101	3.162	3.167 (0.387)		557521		50.0000	45.9	
7 Diethyl Ether	59	3.612	3.610 (0.442)		231919		50.0000	45.2	
8 Tertiary-butyl alcohol	59	5.493	5.498 (0.671)		157248		250.000	244	
9 1,1-Dichloroethene	96	3.884	3.882 (0.475)		252386		50.0000	41.0	
10 Carbon Disulfide	76	3.920	3.925 (0.479)		906637		50.0000	47.7	
11 Freon-113	151	3.948	3.946 (0.483)		180041		50.0000	52.1	
12 Iodomethane	142	4.098	4.103 (0.501)		300802		50.0000	54.3	
13 Acrolein	56	4.413	4.418 (0.539)		240584		250.000	181	
14 Methylene Chloride	84	4.813	4.818 (0.588)		346172		50.0000	46.2	
15 Acetone	43	4.914	4.911 (0.601)		616826		250.000	216	
16 Isobutyl Alcohol	43	8.381	8.379 (1.024)		221439		1000.00	873	
17 trans-1,2-Dichloroethene	96	5.092	5.090 (0.622)		299553		50.0000	42.8	
18 Allyl Chloride	41	4.635	4.633 (0.567)		448327		50.0000	49.4	
19 Methyl tert-butyl ether	73	5.292	5.297 (0.647)		1744640		100.000	101	
20 Acetonitrile	39	5.707	5.705 (0.698)		105680		500.000	430	
21 Di-isopropyl ether	45	5.943	5.941 (0.726)		967720		50.0000	47.4	
22 Chloroprene	53	6.072	6.070 (0.742)		461974		50.0000	52.6	
23 Propionitrile	54	8.110	8.106 (0.991)		496015		500.000	456	
24 Methacrylonitrile	41	8.131	8.129 (0.994)		1942443		500.000	458	

Compounds	QUANT SIG			RESPONSE	AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.108	6.113 (0.747)	595829	50.0000	45.1	
26 Acrylonitrile	52	6.201	6.198 (0.758)	522437	250.000	209	
27 Ethyl tertiary-butyl ether	59	6.501	6.499 (0.795)	892499	50.0000	50.9	
28 Vinyl Acetate	43	6.522	6.520 (0.738)	647768	50.0000	47.9	
29 cis-1,2-Dichloroethene	96	6.908	6.913 (0.844)	331687	50.0000	44.5	
M 30 1,2-Dichloroethylene (total)	96			631240	50.0000	(a)	
31 Methyl Methacrylate	41	9.697	9.702 (1.097)	290246	50.0000	52.8	
32 2,2-Dichloropropane	77	7.059	7.064 (0.863)	547515	50.0000	52.3	
33 Bromochloromethane	128	7.187	7.185 (0.879)	140412	50.0000	46.2	
34 Chloroform	83	7.302	7.307 (0.893)	637814	50.0000	47.3	
35 Carbon Tetrachloride	117	7.466	7.464 (0.845)	456200	50.0000	59.8	
36 Tetrahydrofuran	42	7.502	7.507 (0.917)	512503	250.000	212	
\$ 37 Dibromofluoromethane	113	7.545	7.550 (0.922)	324635	50.0000	43.6	
38 1,1,1-Trichloroethane	97	7.566	7.564 (0.925)	596232	50.0000	51.6	
39 1,1-Dichloropropene	75	11.005	11.003 (1.245)	517923	50.0000	55.5	
40 2-Butanone	43	7.724	7.721 (0.944)	859375	250.000	221	
41 Benzene	78	8.060	8.057 (0.912)	1190650	50.0000	48.9	
* 42 Pentafluorobenzene	168	8.181	8.179 (1.000)	621081	50.0000		
43 Cyclohexane	56	7.173	7.178 (0.877)	500686	50.0000	45.1	
44 Ethyl Methacrylate	69	11.191	11.189 (1.266)	376473	50.0000	53.5	
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236 (1.006)	429151	50.0000	44.2	
46 Tertiary-amyl methyl ether	73	8.217	8.222 (1.004)	743991	50.0000	49.4	
47 1,2-Dichloroethane	62	8.317	8.321 (0.941)	507751	50.0000	52.6	
48 Trichloroethene	95	8.789	8.794 (0.994)	307942	50.0000	47.2	
* 49 1,4-Difluorobenzene	114	8.839	8.844 (1.000)	1033442	50.0000		
50 Dibromomethane	93	9.304	9.302 (1.053)	214154	50.0000	49.3	
51 1,2-Dichloropropane	63	9.425	9.423 (1.066)	297801	50.0000	46.4	
52 Bromodichloromethane	83	9.504	9.502 (1.075)	488117	50.0000	53.7	
53 cis-1,3-dichloropropene	75	10.248	10.245 (1.159)	569482	50.0000	53.3	
54 1,4-Dioxane	88	9.747	9.745 (1.103)	82660	1000.00	860	
\$ 55 Toluene-D8	98	10.455	10.453 (1.183)	1083448	50.0000	47.8	
56 2-Chloroethylvinylether	63	10.183	10.181 (1.152)	155311	50.0000	61.6	
57 Toluene	92	10.512	10.517 (1.189)	762223	50.0000	50.4	
58 4-methyl-2-pentanone	43	10.963	10.960 (1.240)	1593723	250.000	259	
59 Tetrachloroethene	164	10.963	10.960 (0.888)	266692	50.0000	56.2	
60 trans-1,3-Dichloropropene	75	11.005	11.003 (1.245)	517923	50.0000	55.5	
61 1,1,2-Trichloroethane	83	11.198	11.196 (1.267)	235572	50.0000	47.4	
62 Dibromochloromethane	129	11.413	11.411 (0.925)	352553	50.0000	58.3	
63 1,3-Dichloropropane	76	11.527	11.525 (0.934)	539673	50.0000	49.5	
64 1,2-Dibromoethane	107	11.699	11.697 (1.324)	324680	50.0000	51.1	
65 2-Hexanone	43	11.978	11.976 (0.970)	1194600	250.000	260	
* 66 Chlorobenzene-D5	117	12.343	12.340 (1.000)	1006965	50.0000		
67 Chlorobenzene	112	12.364	12.362 (1.002)	811145	50.0000	52.2	
152 1-Chlorohexane	91	12.335	12.333 (0.999)	491857	50.0000	50.3	
68 Ethylbenzene	106	12.400	12.398 (1.005)	445862	50.0000	50.5	
69 1,1,1,2-Tetrachloroethane	131	12.443	12.448 (1.008)	323800	50.0000	57.5	
M 70 Xylenes (total)	106			1632204	150.000	(a)	
71 m+p-Xylenes	106	12.586	12.583 (1.020)	1109141	100.000	106	
72 o-Xylene	106	13.158	13.163 (1.066)	523063	50.0000	52.8	
73 Styrene	104	13.236	13.234 (1.072)	956519	50.0000	54.7	
74 Bromoform	173	13.272	13.270 (1.075)	248768	50.0000	60.2	
75 Isopropylbenzene	105	13.594	13.592 (0.866)	1413380	50.0000	52.5	
\$ 76 P-Bromofluorobenzene	95	13.994	13.999 (1.583)	486516	50.0000	47.8	
77 cis-1,4-Dichloro-2-Butene	53	14.094	14.099 (0.898)	144969	50.0000	53.6	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
78 trans-1,4-Dichloro-2-Butene	53	14.559	14.557	(0.928)	135393	50.0000	53.2	
79 Bromobenzene	156	14.151	14.149	(0.902)	389040	50.0000	51.9	
80 N-Propylbenzene	91	14.187	14.192	(0.904)	1732295	50.0000	48.8	
81 1,1,2,2-Tetrachloroethane	83	14.294	14.292	(0.911)	429117	50.0000	45.5	
82 1,3,5-Trimethylbenzene	105	14.480	14.478	(0.923)	1371319	50.0000	52.9	
83 2-Chlorotoluene	91	14.416	14.421	(0.919)	1092372	50.0000	50.8	
84 1,2,3-Trichloropropane	75	14.495	14.500	(0.924)	364692	50.0000	47.4	
85 4-Chlorotoluene	91	14.666	14.664	(0.935)	1117611	50.0000	50.7	
86 tert-Butylbenzene	119	14.959	14.957	(0.954)	1287174	50.0000	55.6	
87 Pentachloroethane	117	14.988	14.993	(0.955)	282242	50.0000	56.6	
88 1,2,4-Trimethylbenzene	105	15.067	15.072	(0.960)	1385400	50.0000	53.9	
89 P-Isopropyltoluene	119	15.460	15.465	(0.985)	1425479	50.0000	56.6	
90 1,3-Dichlorobenzene	146	15.574	15.572	(0.993)	684192	50.0000	52.7	
* 91 1,4-Dichlorobenzene-D4	152	15.689	15.694	(1.000)	563482	50.0000		
92 1,4-Dichlorobenzene	146	15.717	15.715	(1.002)	765541	50.0000	52.1	
93 N-Butylbenzene	91	16.139	16.143	(1.029)	1581460	50.0000	51.5	
94 sec-Butylbenzene	105	15.238	15.236	(0.971)	1679928	50.0000	53.0	
95 1,2-Dichlorobenzene	146	16.389	16.393	(1.045)	653277	50.0000	53.6	
96 1,2-Dibromo-3-Chloropropane	75	17.748	17.753	(1.131)	95904	50.0000	56.3	
97 1,3,5-Trichlorobenzene	180	17.805	17.803	(1.135)	563351	50.0000	56.4	
98 Hexachlorobutadiene	225	18.913	18.911	(1.206)	292583	50.0000	63.7	
99 1,2,4-Trichlorobenzene	180	18.949	18.947	(1.208)	490961	50.0000	55.3	
100 1,2,3-Trimethylbenzene	105	15.753	15.758	(1.004)	1255582	50.0000	52.6	
101 Naphthalene	128	19.543	19.541	(1.246)	1054852	50.0000	56.4	
102 1,2,3-Trichlorobenzene	180	19.879	19.877	(1.267)	401779	50.0000	52.0	
103 Methyl Acetate	43	5.135	5.140	(0.628)	288177	50.0000	46.0	
104 Methylcyclohexane	83	8.775	8.772	(1.073)	469733	50.0000	47.4	
M 153 Total Alkylbenzenes	100				10463055	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\goms-c.i\CD041913.b\CD0535.D

Date: 19-Apr-2013 09:52

Client ID: continuing Calibrati

Sample Info: M3122901-4,SG2375

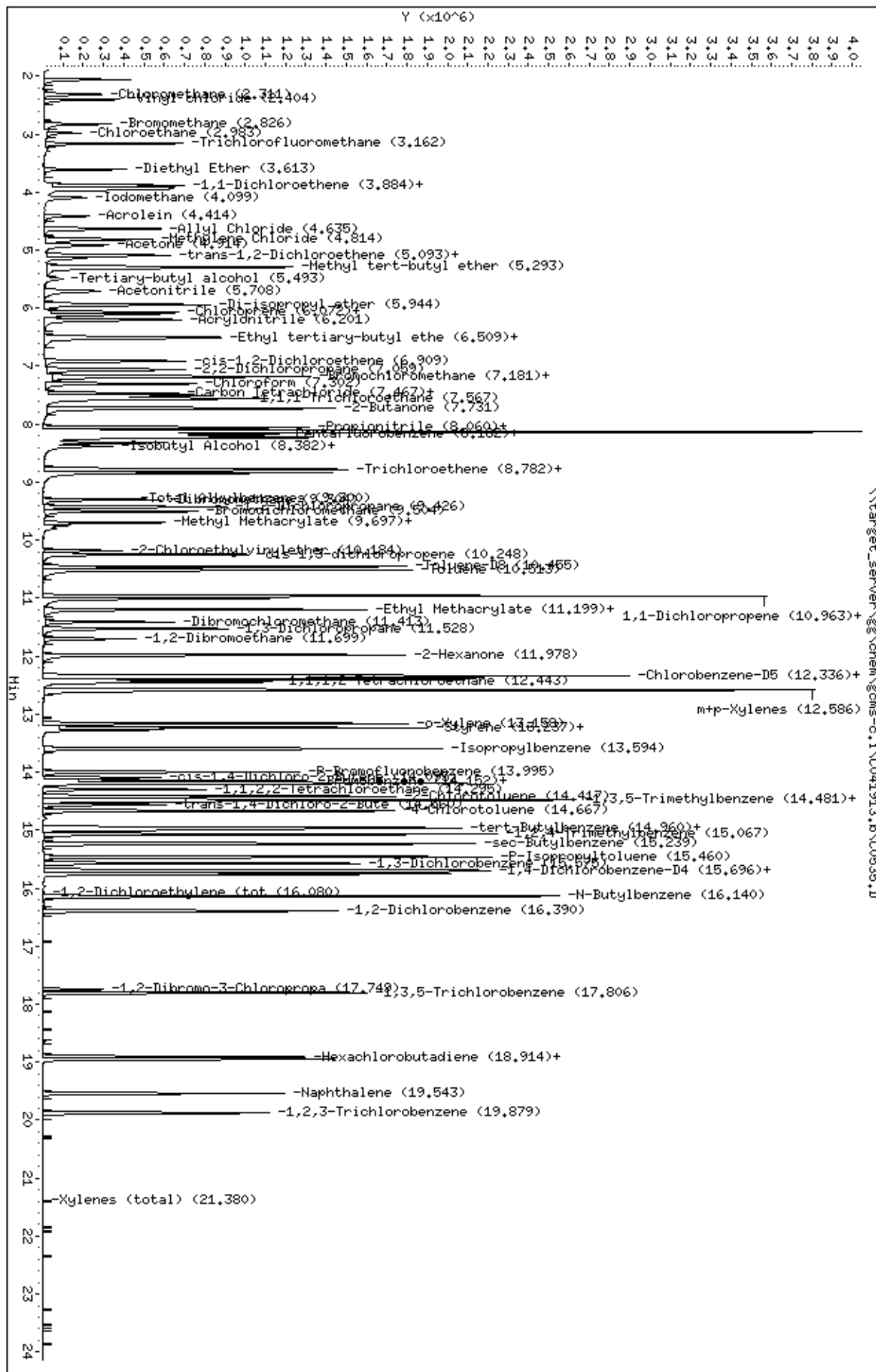
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Former Griffiss Air Force Base, AOC 9
Lab ID : WG123007-4
Lab File ID : C0557.D
Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16

SDG: SG2375
Analytical Date: 04/22/13 09:27
Instrument ID: GCMS-C
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	50.00000	80.98985	0.64996	0.010	61.97971	20.00000	Linear	*
2 Chloromethane	50.00000	45.42451	0.63986	0.100	-9.15098	20.00000	Linear	
3 Vinyl chloride	50.00000	51.17735	0.53402	0.010	2.35470	20.00000	Linear	
4 Bromomethane	0.36115	0.36490	0.36490	0.010	1.03916	20.00000	Averaged	
5 Chloroethane	50.00000	67.59998	0.25188	0.010	35.19997	20.00000	Linear	*
6 Trichlorofluoromethane	50.00000	48.34713	0.94060	0.010	-3.30574	20.00000	Quadratic	
9 1,1-Dichloroethene	0.49494	0.39479	0.39479	0.100	-20.23636	20.00000	Averaged	*
10 Carbon Disulfide	50.00000	45.90907	1.40873	0.010	-8.18186	20.00000	Linear	
11 Freon-113	0.27835	0.29958	0.29958	0.010	7.62841	20.00000	Averaged	
14 Methylene Chloride	50.00000	42.49840	0.51578	0.010	-15.00319	20.00000	Linear	
15 Acetone	250	208	0.19132	0.010	-16.74971	20.00000	Linear	
17 trans-1,2-Dichloroethene	0.56294	0.46866	0.46866	0.010	-16.74824	20.00000	Averaged	
19 Methyl tert-butyl ether	1.38831	1.37430	1.37430	0.010	-1.00910	20.00000	Averaged	
25 1,1-Dichloroethane	1.06248	0.91597	0.91597	0.100	-13.78930	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.60010	0.51534	0.51534	0.010	-14.12348	20.00000	Averaged	
33 Bromochloromethane	0.24463	0.23783	0.23783	0.010	-2.77702	20.00000	Averaged	
34 Chloroform	1.08532	0.99725	0.99725	0.010	-8.11429	20.00000	Averaged	
35 Carbon Tetrachloride	0.36915	0.44125	0.44125	0.010	19.53193	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.92975	0.90722	0.90722	0.010	-2.42307	20.00000	Averaged	
40 2-Butanone	0.31256	0.25600	0.25600	0.010	-18.09572	20.00000	Averaged	
41 Benzene	1.17850	1.11173	1.11173	0.010	-5.66648	20.00000	Averaged	
43 Cyclohexane	0.89396	0.74062	0.74062	0.010	-17.15296	20.00000	Averaged	
47 1,2-Dichloroethane	0.46691	0.50499	0.50499	0.010	8.15773	20.00000	Averaged	
48 Trichloroethene	0.31589	0.29965	0.29965	0.010	-5.14073	20.00000	Averaged	
51 1,2-Dichloropropane	0.31070	0.27088	0.27088	0.010	-12.81664	20.00000	Averaged	
52 Bromodichloromethane	0.43978	0.47144	0.47144	0.010	7.20020	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.51673	0.53755	0.53755	0.010	4.02845	20.00000	Averaged	
54 1,4-Dioxane	0.00465	0.00425	0.00425	0.001	-8.62676	20.00000	Averaged	
57 Toluene	0.73194	0.70218	0.70218	0.010	-4.06584	20.00000	Averaged	
58 4-methyl-2-pentanone	0.29811	0.29445	0.29445	0.010	-1.22886	20.00000	Averaged	
59 Tetrachloroethene	0.23551	0.25897	0.25897	0.010	9.96041	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.45166	0.48682	0.48682	0.010	7.78499	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24065	0.22795	0.22795	0.010	-5.27677	20.00000	Averaged	
62 Dibromochloromethane	0.30031	0.35758	0.35758	0.010	19.06868	20.00000	Averaged	
64 1,2-Dibromoethane	0.30735	0.30297	0.30297	0.010	-1.42631	20.00000	Averaged	
65 2-Hexanone	0.22796	0.22342	0.22342	0.010	-1.99254	20.00000	Averaged	
67 Chlorobenzene	0.77120	0.78239	0.78239	0.300	1.45162	20.00000	Averaged	
68 Ethylbenzene	0.43810	0.44297	0.44297	0.010	1.11053	20.00000	Averaged	
71 m+p-Xylenes	0.51813	0.53346	0.53346	0.010	2.95911	20.00000	Averaged	
72 o-Xylene	0.49170	0.50132	0.50132	0.010	1.95582	20.00000	Averaged	
73 Styrene	0.86769	0.92449	0.92449	0.010	6.54654	20.00000	Averaged	

Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services

Project : Former Griffiss Air Force Base, AOC 9

SDG: SG2375

Lab ID : WG123007-4

Analytical Date: 04/22/13 09:27

Lab File ID : C0557.D

Instrument ID: GCMS-C

Initial Calibration Date(s): 04/11/13 12:00 04/11/13 17:16

Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
74 Bromoform	0.20535	0.24968	0.24968	0.100	21.58974	20.00000	Averaged	*
75 Isopropylbenzene	2.38816	2.28714	2.28714	0.010	-4.23012	20.00000	Averaged	
80 N-Propylbenzene	50.00000	43.22576	2.77860	0.010	-13.54848	20.00000	Quadratic	
81 1,1,2,2-Tetrachloroethane	0.83725	0.68224	0.68224	0.300	-18.51428	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.29913	2.23357	2.23357	0.010	-2.85183	20.00000	Averaged	
85 4-Chlorotoluene	1.95594	1.82302	1.82302	0.010	-6.79566	20.00000	Averaged	
86 tert-Butylbenzene	2.05493	2.13674	2.13674	0.010	3.98103	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.28121	2.27983	2.27983	0.010	-0.06039	20.00000	Averaged	
89 P-Isopropyltoluene	2.23391	2.35004	2.35004	0.010	5.19848	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.15196	1.16141	1.16141	0.010	0.82030	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.30425	1.26781	1.26781	0.010	-2.79423	20.00000	Averaged	
93 N-Butylbenzene	50.00000	46.09194	2.56210	0.010	-7.81612	20.00000	Quadratic	
94 sec-Butylbenzene	2.80948	2.70474	2.70474	0.010	-3.72814	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.08063	1.08563	1.08563	0.010	0.46209	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	0.15125	0.15087	0.15087	0.010	-0.24665	20.00000	Averaged	
99 1,2,4-Trichlorobenzene	0.78748	0.82975	0.82975	0.010	5.36712	20.00000	Averaged	
101 Naphthalene	1.66105	1.77327	1.77327	0.010	6.75594	20.00000	Averaged	
102 1,2,3-Trichlorobenzene	0.68507	0.67397	0.67397	0.010	-1.62028	20.00000	Averaged	
103 Methyl Acetate	0.50389	0.45297	0.45297	0.010	-10.10552	20.00000	Averaged	
104 Methylcyclohexane	0.79796	0.74597	0.74597	0.010	-6.51508	20.00000	Averaged	
37 Dibromofluoromethane	0.59917	0.53545	0.53545	0.010	-10.63542	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.78240	0.69550	0.69550	0.010	-11.10653	20.00000	Averaged	
55 Toluene-D8	1.09604	1.05830	1.05830	0.010	-3.44334	20.00000	Averaged	
76 P-Bromofluorobenzene	0.49251	0.47003	0.47003	0.010	-4.56402	20.00000	Averaged	

* = Compound out of QC criteria

Data File: \\target_server\gg\chem\gcms-c.i\C042213.b\C0557.D
 Report Date: 23-Apr-2013 11:17

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C042213.b\C0557.D
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 Inj Date : 22-APR-2013 09:27 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG123007-4,SG2375
 Misc Info : WG123007,WG122628-4,SG2375-12
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C042213.b\C826A67.m
 Meth Date : 23-Apr-2013 11:14 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.053	2.057 (0.251)		388207		50.0000	81.0	
2 Chloromethane	50	2.303	2.309 (0.282)		382177		50.0000	45.4	
3 Vinyl chloride	62	2.403	2.409 (0.294)		318961		50.0000	51.2	
4 Bromomethane	94	2.818	2.824 (0.345)		217950		50.0000	50.5	
5 Chloroethane	64	2.975	2.988 (0.364)		150443		50.0000	67.6	
6 Trichlorofluoromethane	101	3.161	3.167 (0.386)		561801		50.0000	48.3	
7 Diethyl Ether	59	3.604	3.610 (0.441)		214768		50.0000	43.6	
8 Tertiary-butyl alcohol	59	5.499	5.498 (0.672)		151642		250.000	245	
9 1,1-Dichloroethene	96	3.876	3.882 (0.474)		235798		50.0000	39.9	
10 Carbon Disulfide	76	3.912	3.925 (0.478)		841407		50.0000	45.9	
11 Freon-113	151	3.948	3.946 (0.483)		178936		50.0000	53.8	
12 Iodomethane	142	4.091	4.103 (0.500)		301109		50.0000	57.2	
13 Acrolein	56	4.412	4.418 (0.539)		223910		250.000	175	
14 Methylene Chloride	84	4.806	4.818 (0.587)		308064		50.0000	42.5	
15 Acetone	43	4.906	4.911 (0.600)		571353		250.000	208	
16 Isobutyl Alcohol	43	8.381	8.379 (1.024)		206503		1000.00	848	
17 trans-1,2-Dichloroethene	96	5.085	5.090 (0.622)		279923		50.0000	41.6	
18 Allyl Chloride	41	4.627	4.633 (0.566)		437425		50.0000	50.1	
19 Methyl tert-butyl ether	73	5.292	5.297 (0.647)		1641695		100.000	99.0	
20 Acetonitrile	39	5.699	5.705 (0.697)		95809		500.000	405	
21 Di-isopropyl ether	45	5.935	5.941 (0.726)		904452		50.0000	46.1	
22 Chloroprene	53	6.064	6.070 (0.741)		442468		50.0000	52.4	
23 Propionitrile	54	8.102	8.106 (0.990)		456141		500.000	436	
24 Methacrylonitrile	41	8.130	8.129 (0.994)		1851531		500.000	453	

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT			CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.100	6.113 (0.746)		547093	50.0000	43.1	
26 Acrylonitrile	52	6.200	6.198 (0.758)		497221	250.000	206	
27 Ethyl tertiary-butyl ether	59	6.493	6.499 (0.794)		857093	50.0000	50.9	
28 Vinyl Acetate	43	6.515	6.520 (0.737)		618031	50.0000	48.5	
29 cis-1,2-Dichloroethene	96	6.908	6.913 (0.844)		307806	50.0000	42.9	
M 30 1,2-Dichloroethylene (total)	96				587729	50.0000	(a)	
31 Methyl Methacrylate	41	9.696	9.702 (1.097)		269631	50.0000	52.0	
32 2,2-Dichloropropane	77	7.051	7.064 (0.862)		515183	50.0000	51.2	
33 Bromochloromethane	128	7.187	7.185 (0.879)		142053	50.0000	48.6	
34 Chloroform	83	7.301	7.307 (0.892)		595642	50.0000	45.9	
35 Carbon Tetrachloride	117	7.466	7.464 (0.845)		429988	50.0000	59.8	
36 Tetrahydrofuran	42	7.501	7.507 (0.917)		469383	250.000	202	
\$ 37 Dibromofluoromethane	113	7.544	7.550 (0.922)		319814	50.0000	44.7	
38 1,1,1-Trichloroethane	97	7.558	7.564 (0.924)		541868	50.0000	48.8	
39 1,1-Dichloropropene	75	11.005	11.003 (1.245)		474398	50.0000	53.9	
40 2-Butanone	43	7.716	7.721 (0.943)		764526	250.000	205	
41 Benzene	78	8.052	8.057 (0.911)		1083355	50.0000	47.2	
* 42 Pentafluorobenzene	168	8.181	8.179 (1.000)		597282	50.0000		
43 Cyclohexane	56	7.172	7.178 (0.877)		442357	50.0000	41.4	
44 Ethyl Methacrylate	69	11.191	11.189 (1.266)		360568	50.0000	54.3	
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236 (1.006)		415412	50.0000	44.4	
46 Tertiary-amyl methyl ether	73	8.216	8.222 (1.004)		708987	50.0000	48.9	
47 1,2-Dichloroethane	62	8.316	8.321 (0.941)		492108	50.0000	54.1	
48 Trichloroethene	95	8.788	8.794 (0.994)		292001	50.0000	47.4	
* 49 1,4-Difluorobenzene	114	8.838	8.844 (1.000)		974481	50.0000		
50 Dibromomethane	93	9.296	9.302 (1.052)		194568	50.0000	47.5	
51 1,2-Dichloropropane	63	9.418	9.423 (1.066)		263966	50.0000	43.6	
52 Bromodichloromethane	83	9.503	9.502 (1.075)		459412	50.0000	53.6	
53 cis-1,3-dichloropropene	75	10.240	10.245 (1.159)		523832	50.0000	52.0	
54 1,4-Dioxane	88	9.739	9.745 (1.102)		82850	1000.00	914	
\$ 55 Toluene-D8	98	10.454	10.453 (1.183)		1031297	50.0000	48.3	
56 2-Chloroethylvinylether	63	10.175	10.181 (1.151)		144410	50.0000	60.8	
57 Toluene	92	10.511	10.517 (1.189)		684257	50.0000	48.0	
58 4-methyl-2-pentanone	43	10.962	10.960 (1.240)		1434676	250.000	247	
59 Tetrachloroethene	164	10.955	10.960 (0.888)		245500	50.0000	55.0	
60 trans-1,3-Dichloropropene	75	11.005	11.003 (1.245)		474398	50.0000	53.9	
61 1,1,2-Trichloroethane	83	11.191	11.196 (1.266)		222137	50.0000	47.4	
62 Dibromochloromethane	129	11.405	11.411 (0.925)		338982	50.0000	59.5	
63 1,3-Dichloropropane	76	11.520	11.525 (0.934)		481137	50.0000	46.9	
64 1,2-Dibromoethane	107	11.698	11.697 (1.324)		295236	50.0000	49.3	
65 2-Hexanone	43	11.977	11.976 (0.971)		1059005	250.000	245	
* 66 Chlorobenzene-D5	117	12.335	12.340 (1.000)		947992	50.0000		
67 Chlorobenzene	112	12.356	12.362 (1.002)		741701	50.0000	50.7	
152 1-Chlorohexane	91	12.328	12.333 (0.999)		429956	50.0000	46.7	
68 Ethylbenzene	106	12.392	12.398 (1.005)		419929	50.0000	50.6	
69 1,1,1,2-Tetrachloroethane	131	12.442	12.448 (1.009)		306803	50.0000	57.9	
M 70 Xylenes (total)	106				1486677	150.000	(a)	
71 m+p-Xylenes	106	12.585	12.583 (1.020)		1011433	100.000	103	
72 o-Xylene	106	13.157	13.163 (1.067)		475244	50.0000	51.0	
73 Styrene	104	13.229	13.234 (1.072)		876408	50.0000	53.3	
74 Bromoform	173	13.271	13.270 (1.076)		236699	50.0000	60.8	
75 Isopropylbenzene	105	13.593	13.592 (0.866)		1275668	50.0000	47.9	
\$ 76 P-Bromofluorobenzene	95	13.994	13.999 (1.583)		458037	50.0000	47.7	
77 cis-1,4-Dichloro-2-Butene	53	14.094	14.099 (0.898)		137285	50.0000	51.3	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
78 trans-1,4-Dichloro-2-Butene	53	14.558	14.557	(0.928)	132660	50.0000	52.7	
79 Bromobenzene	156	14.144	14.149	(0.902)	363767	50.0000	49.0	
80 N-Propylbenzene	91	14.187	14.192	(0.904)	1549786	50.0000	43.2	
81 1,1,2,2-Tetrachloroethane	83	14.294	14.292	(0.911)	380525	50.0000	40.7	
82 1,3,5-Trimethylbenzene	105	14.480	14.478	(0.923)	1245790	50.0000	48.6	
83 2-Chlorotoluene	91	14.415	14.421	(0.919)	974441	50.0000	45.8	
84 1,2,3-Trichloropropane	75	14.494	14.500	(0.924)	327776	50.0000	43.0	
85 4-Chlorotoluene	91	14.666	14.664	(0.935)	1016802	50.0000	46.6	
86 tert-Butylbenzene	119	14.959	14.957	(0.954)	1191785	50.0000	52.0	
87 Pentachloroethane	117	14.987	14.993	(0.955)	269288	50.0000	54.6	
88 1,2,4-Trimethylbenzene	105	15.066	15.072	(0.960)	1271592	50.0000	50.0	
89 P-Isopropyltoluene	119	15.459	15.465	(0.985)	1310754	50.0000	52.6	
90 1,3-Dichlorobenzene	146	15.567	15.572	(0.992)	647786	50.0000	50.4	
* 91 1,4-Dichlorobenzene-D4	152	15.688	15.694	(1.000)	557758	50.0000		
92 1,4-Dichlorobenzene	146	15.710	15.715	(1.001)	707131	50.0000	48.6	
93 N-Butylbenzene	91	16.139	16.143	(1.029)	1429031	50.0000	46.1	
94 sec-Butylbenzene	105	15.231	15.236	(0.971)	1508590	50.0000	48.1	
95 1,2-Dichlorobenzene	146	16.389	16.393	(1.045)	605517	50.0000	50.2	
96 1,2-Dibromo-3-Chloropropane	75	17.747	17.753	(1.131)	84151	50.0000	49.9	
97 1,3,5-Trichlorobenzene	180	17.797	17.803	(1.134)	553950	50.0000	56.0	
98 Hexachlorobutadiene	225	18.906	18.911	(1.205)	277472	50.0000	61.0	
99 1,2,4-Trichlorobenzene	180	18.941	18.947	(1.207)	462797	50.0000	52.7	
100 1,2,3-Trimethylbenzene	105	15.753	15.758	(1.004)	1228060	50.0000	52.0	
101 Naphthalene	128	19.535	19.541	(1.245)	989055	50.0000	53.4	
102 1,2,3-Trichlorobenzene	180	19.871	19.877	(1.267)	375913	50.0000	49.2	
103 Methyl Acetate	43	5.135	5.140	(0.628)	270550	50.0000	44.9	
104 Methylcyclohexane	83	8.767	8.772	(1.072)	445554	50.0000	46.7	
M 153 Total Alkylbenzenes	100				9507328	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gs\chem\gms-c.i\CD42213.b\CD0567.D

Date : 22-Apr-2013 09:27

Client ID: Continuing Calibrati

Sample Info: M0123007-4,SG2375

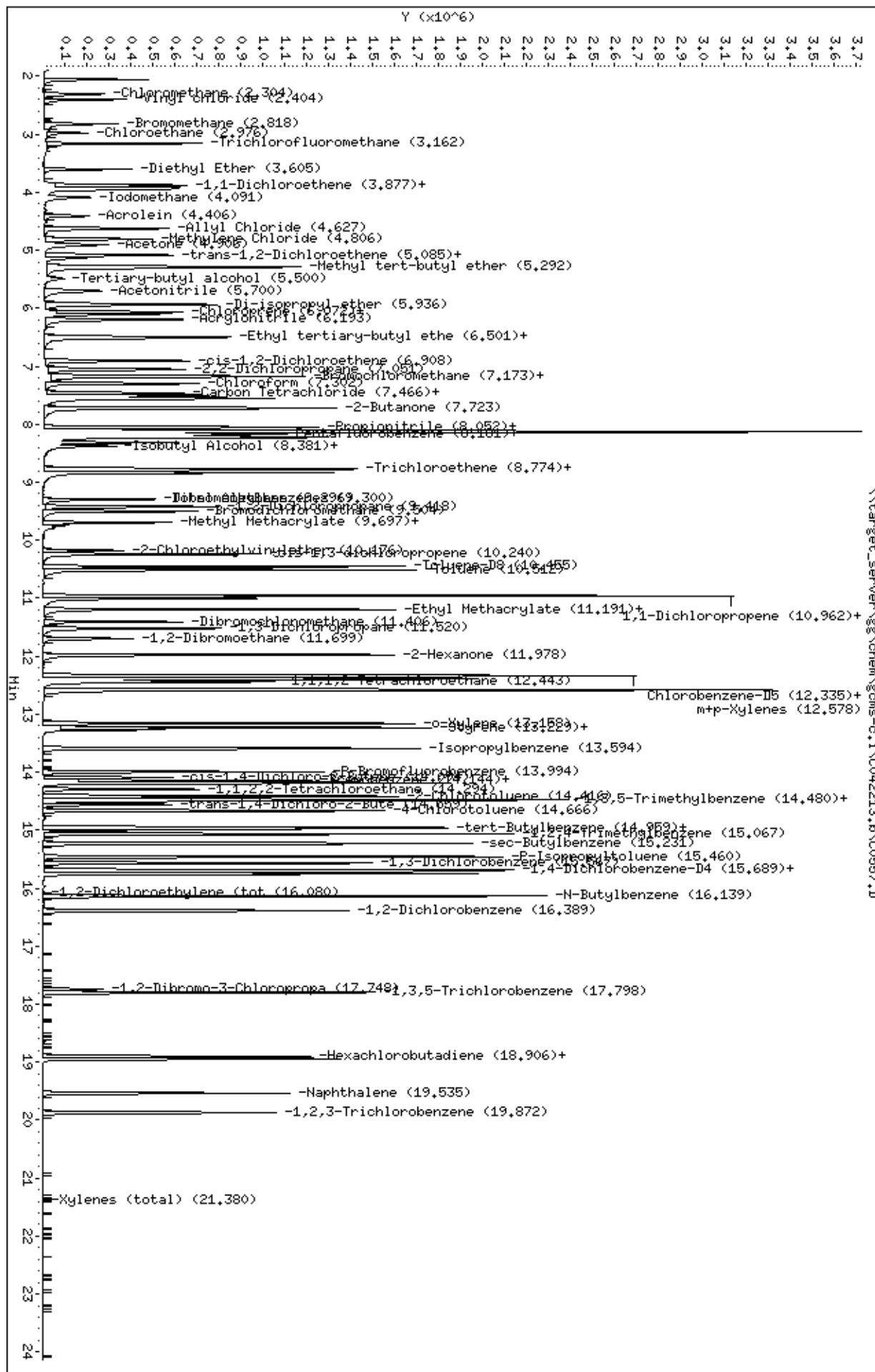
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: gms-c.i

Operator: REC

Column diameter: 0.18



Date : 11-APR-2013 09:31

Client ID:

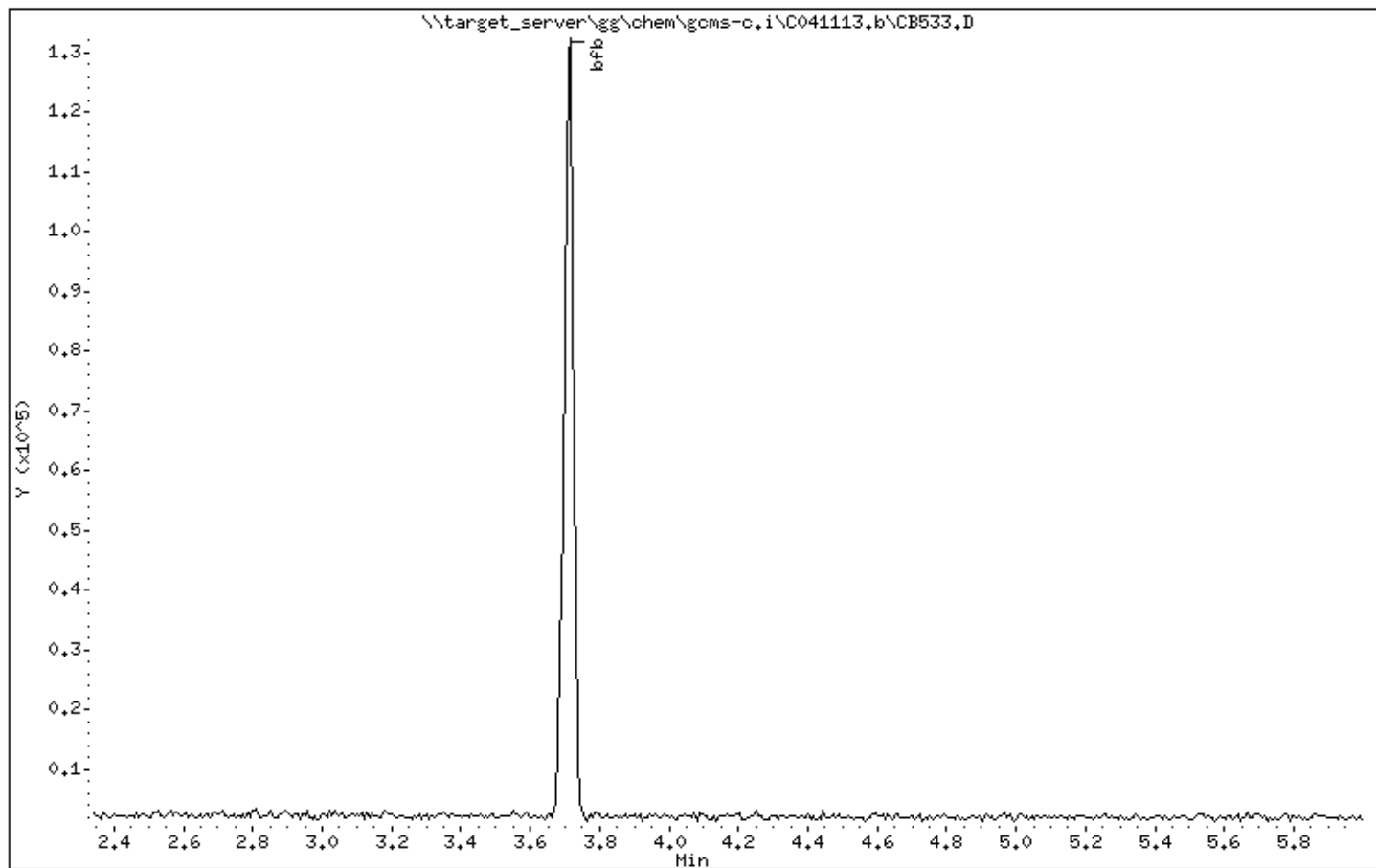
Instrument: goms-c.i

Sample Info: WG122628-10,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0,18



Date : 11-APR-2013 09:31

Client ID:

Instrument: gcms-c.i

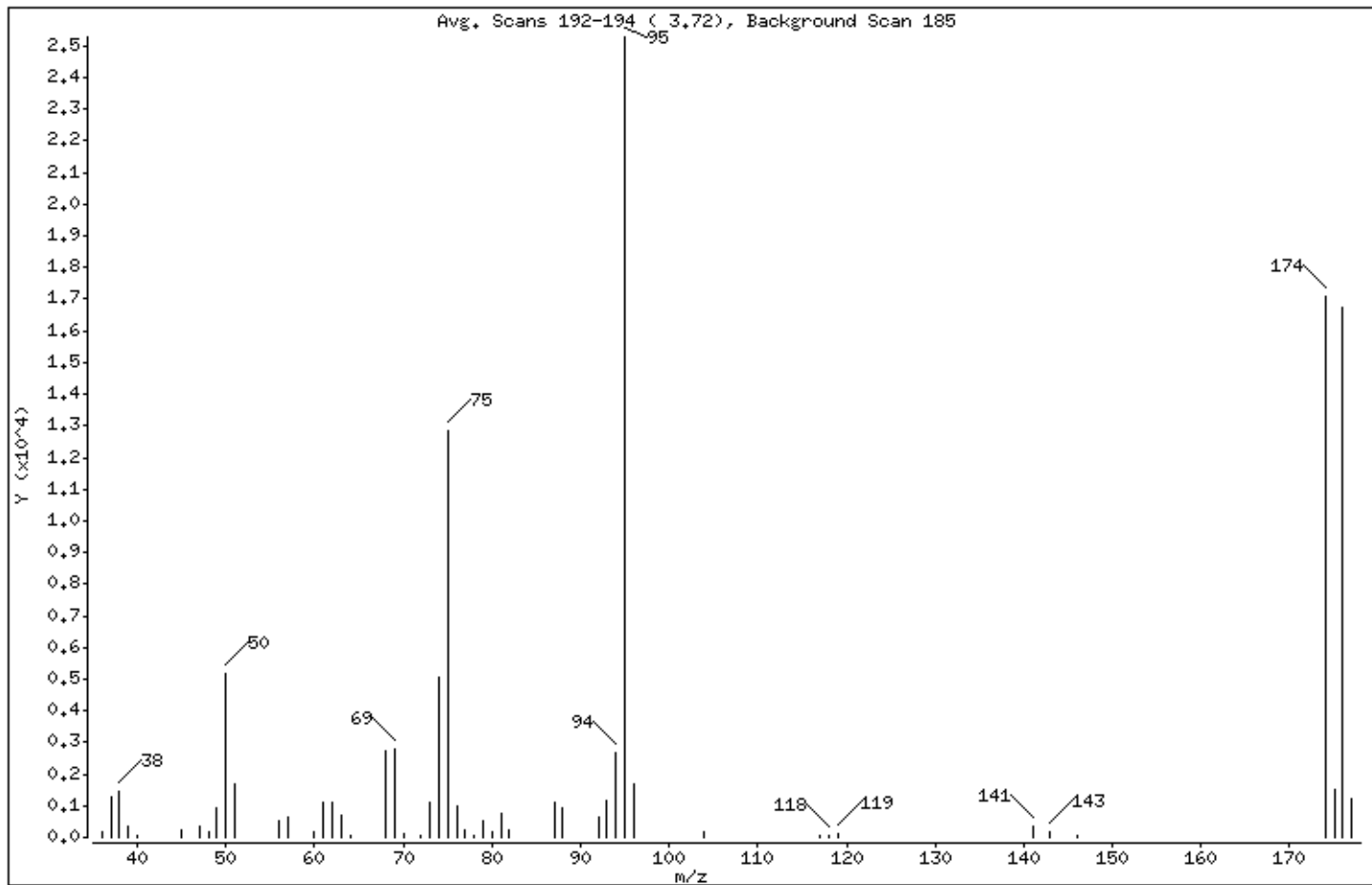
Sample Info: WG122628-10,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.55
75	30.00 - 60.00% of mass 95	50.84
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	67.56
175	5.00 - 9.00% of mass 174	6.07 (8.98)
176	95.00 - 101.00% of mass 174	66.27 (98.08)
177	5.00 - 9.00% of mass 176	4.75 (7.16)

Date : 11-APR-2013 09:31

Client ID:

Instrument: gcms-c.i

Sample Info: WG122628-10,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

Data File: CB533.D

Spectrum: Avg. Scans 192-194 (3.72), Background Scan 185

Location of Maximum: 95.00

Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	172	60.00	195	77.00	210	104.00	157
37.00	1301	61.00	1115	78.00	73	117.00	69
38.00	1442	62.00	1126	79.00	524	118.00	71
39.00	370	63.00	700	80.00	198	119.00	91
40.00	34	64.00	79	81.00	743	141.00	335
45.00	218	68.00	2724	82.00	210	143.00	174
47.00	341	69.00	2815	87.00	1093	146.00	68
48.00	189	70.00	123	88.00	948	174.00	17080
49.00	941	72.00	74	92.00	661	175.00	1534
50.00	5196	73.00	1092	93.00	1188	176.00	16752
51.00	1666	74.00	5056	94.00	2667	177.00	1200
56.00	520	75.00	12852	95.00	25280		
57.00	619	76.00	964	96.00	1700		

Date : 15-APR-2013 08:23

Client ID:

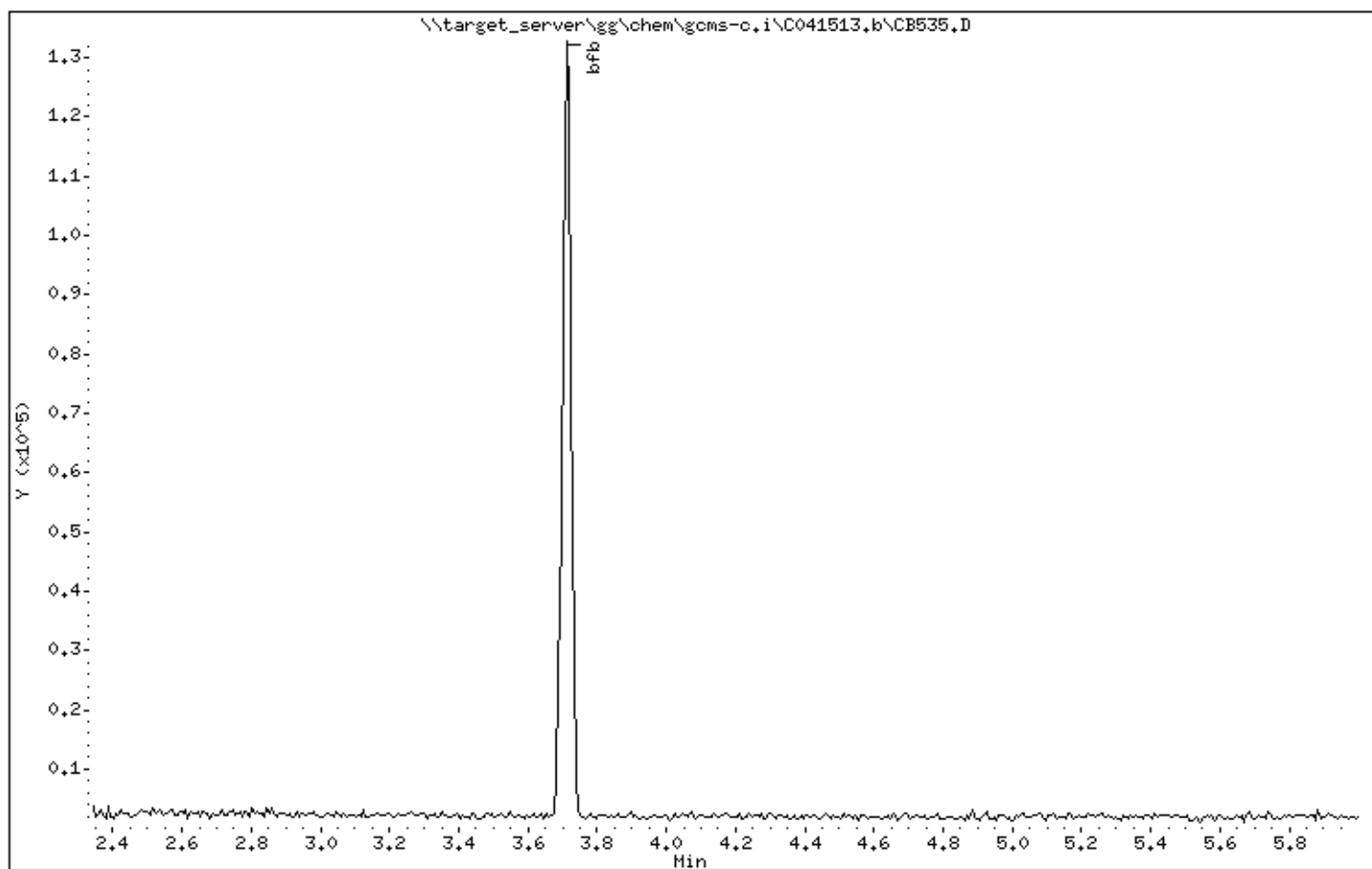
Instrument: goms-c.i

Sample Info: WG122737-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0,18



Date : 15-APR-2013 08:23

Client ID:

Instrument: gcms-c.i

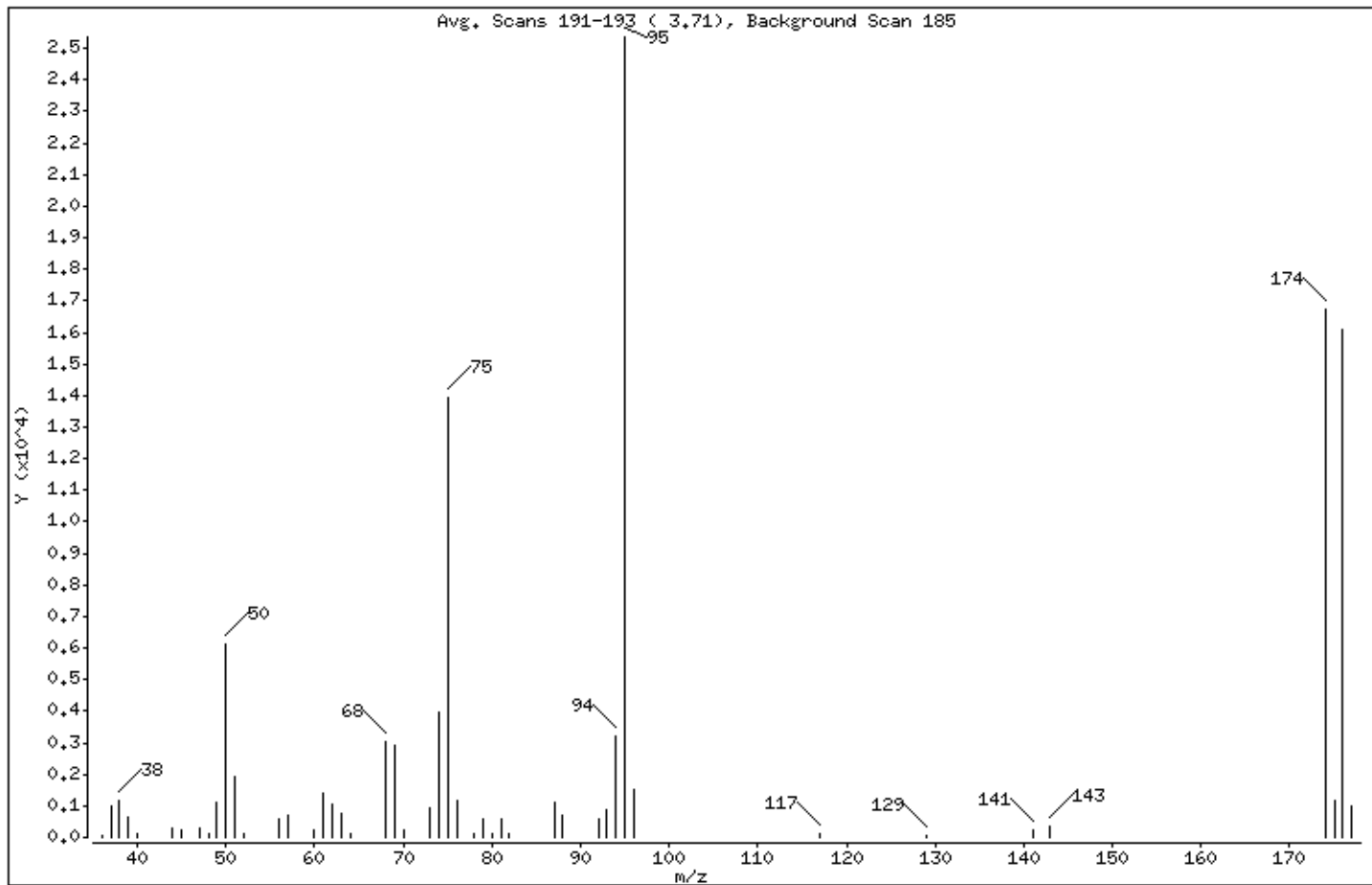
Sample Info: WG122737-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.15
75	30.00 - 60.00% of mass 95	54.89
96	5.00 - 9.00% of mass 95	5.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	66.06
175	5.00 - 9.00% of mass 174	4.57 (6.92)
176	95.00 - 101.00% of mass 174	63.46 (96.07)
177	5.00 - 9.00% of mass 176	3.99 (6.29)

Date : 15-APR-2013 08:23

Client ID:

Instrument: gcms-c.i

Sample Info: WG122737-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

Data File: CB535.D

Spectrum: Avg. Scans 191-193 (3.71), Background Scan 185

Location of Maximum: 95.00

Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	79	52.00	91	74.00	3960	94.00	3198
37.00	1017	56.00	602	75.00	13919	95.00	25360
38.00	1192	57.00	684	76.00	1181	96.00	1504
39.00	622	60.00	232	78.00	90	117.00	90
40.00	95	61.00	1427	79.00	601	129.00	68
44.00	282	62.00	1052	80.00	109	141.00	250
45.00	249	63.00	734	81.00	573	143.00	357
47.00	303	64.00	145	82.00	121	174.00	16752
48.00	143	68.00	3051	87.00	1097	175.00	1159
49.00	1098	69.00	2901	88.00	721	176.00	16093
50.00	6124	70.00	257	92.00	593	177.00	1012
51.00	1934	73.00	938	93.00	886		

Date : 18-APR-2013 07:49

Client ID:

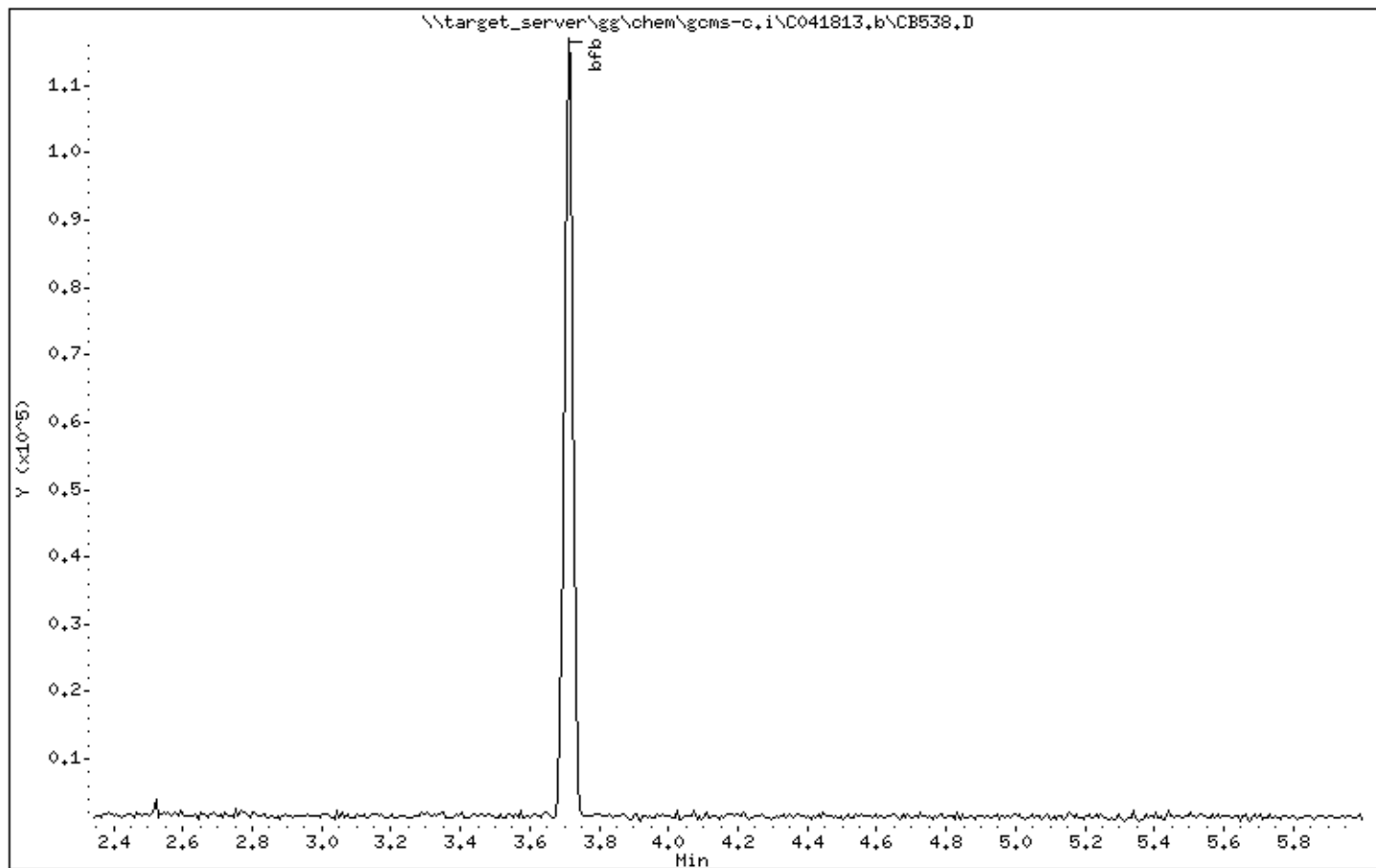
Instrument: goms-c.i

Sample Info: WG122853-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0,18



Date : 18-APR-2013 07:49

Client ID:

Instrument: gcms-c.i

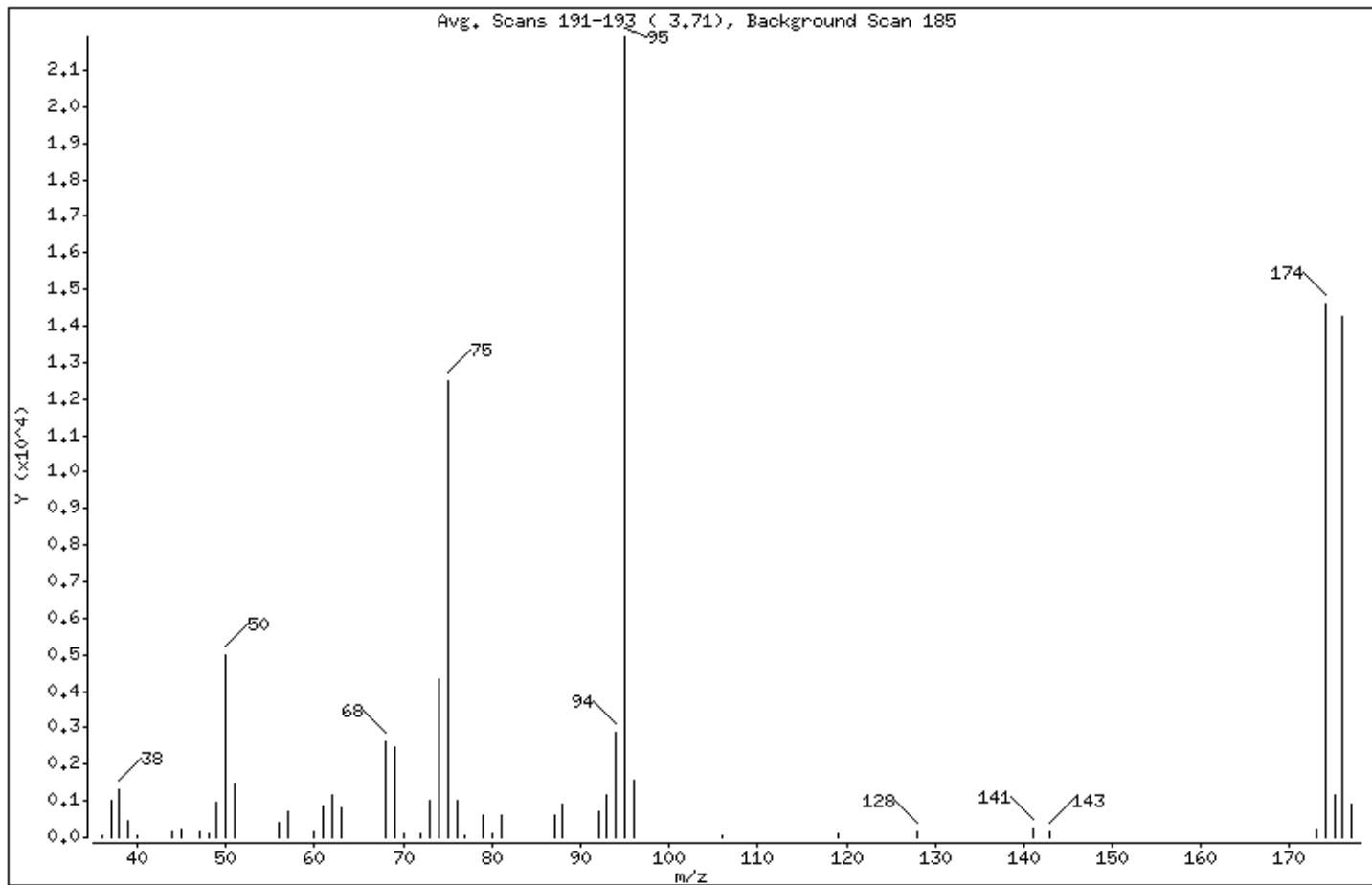
Sample Info: WG122853-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

1 bfb



m/e		ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	1	Base Peak, 100% relative abundance	100.00
50	1	15.00 - 40.00% of mass 95	22.70
75	1	30.00 - 60.00% of mass 95	57.08
96	1	5.00 - 9.00% of mass 95	7.14
173	1	Less than 2.00% of mass 174	0.90 (1.36)
174	1	Greater than 50.00% of mass 95	66.61
175	1	5.00 - 9.00% of mass 174	5.17 (7.77)
176	1	95.00 - 101.00% of mass 174	65.05 (97.66)
177	1	5.00 - 9.00% of mass 176	4.20 (6.46)

Date : 18-APR-2013 07:49

Client ID:

Instrument: gcms-c.i

Sample Info: WG122853-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

Data File: CB538.D

Spectrum: Avg. Scans 191-193 (3.71), Background Scan 185

Location of Maximum: 95.00

Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	72	56.00	391	75.00	12503	96.00	1565
37.00	998	57.00	697	76.00	1015	106.00	75
38.00	1311	60.00	163	77.00	74	119.00	83
39.00	468	61.00	870	79.00	581	128.00	164
40.00	33	62.00	1173	80.00	111	141.00	264
44.00	174	63.00	828	81.00	581	143.00	171
45.00	182	68.00	2607	87.00	621	173.00	198
47.00	126	69.00	2480	88.00	882	174.00	14590
48.00	99	70.00	91	92.00	706	175.00	1133
49.00	961	72.00	88	93.00	1178	176.00	14249
50.00	4973	73.00	1017	94.00	2883	177.00	920
51.00	1478	74.00	4348	95.00	21904		

Date : 19-APR-2013 07:58

Client ID:

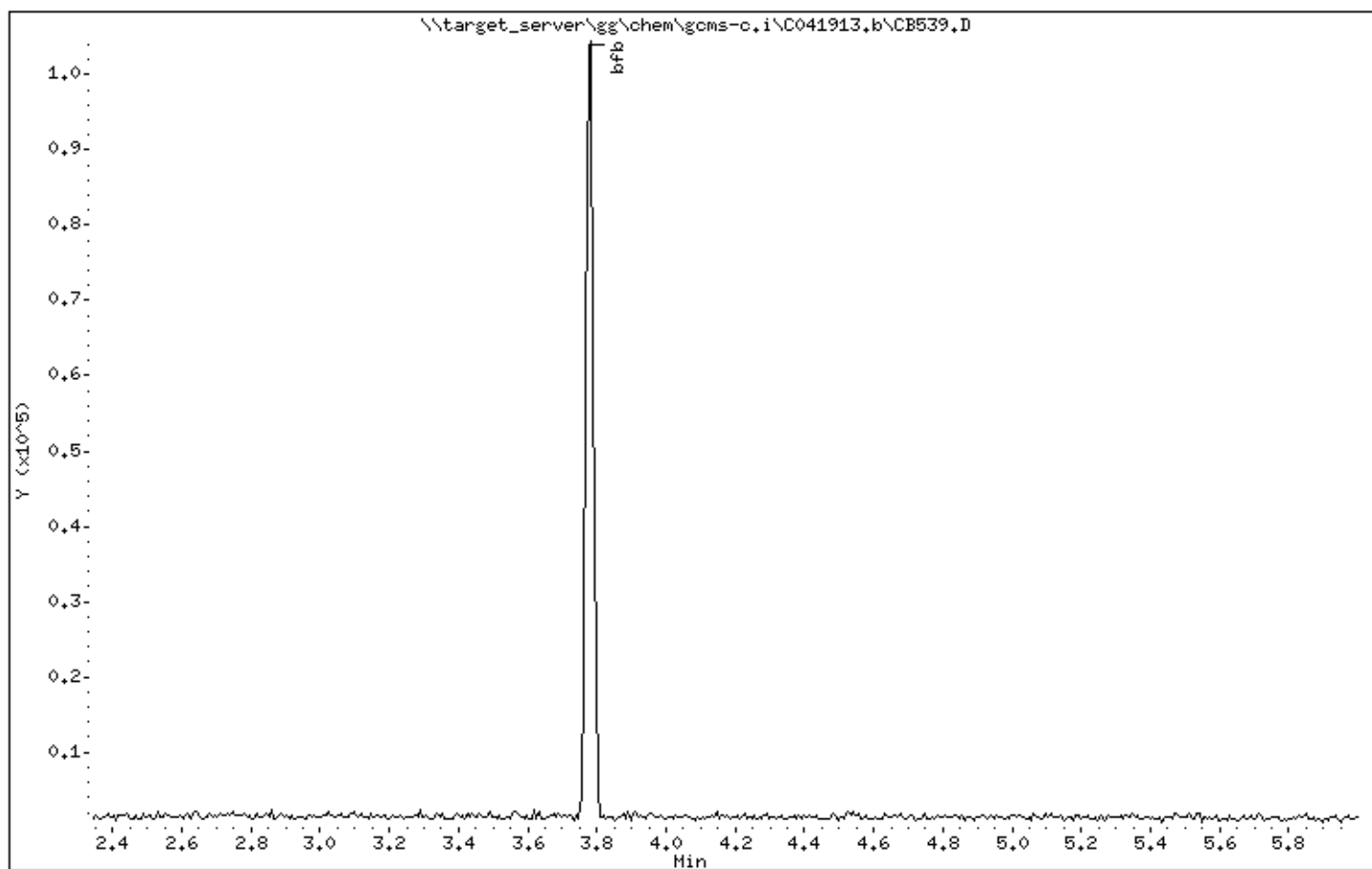
Instrument: goms-c.i

Sample Info: WG122901-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0,18



Date : 19-APR-2013 07:58

Client ID:

Instrument: gcms-c.i

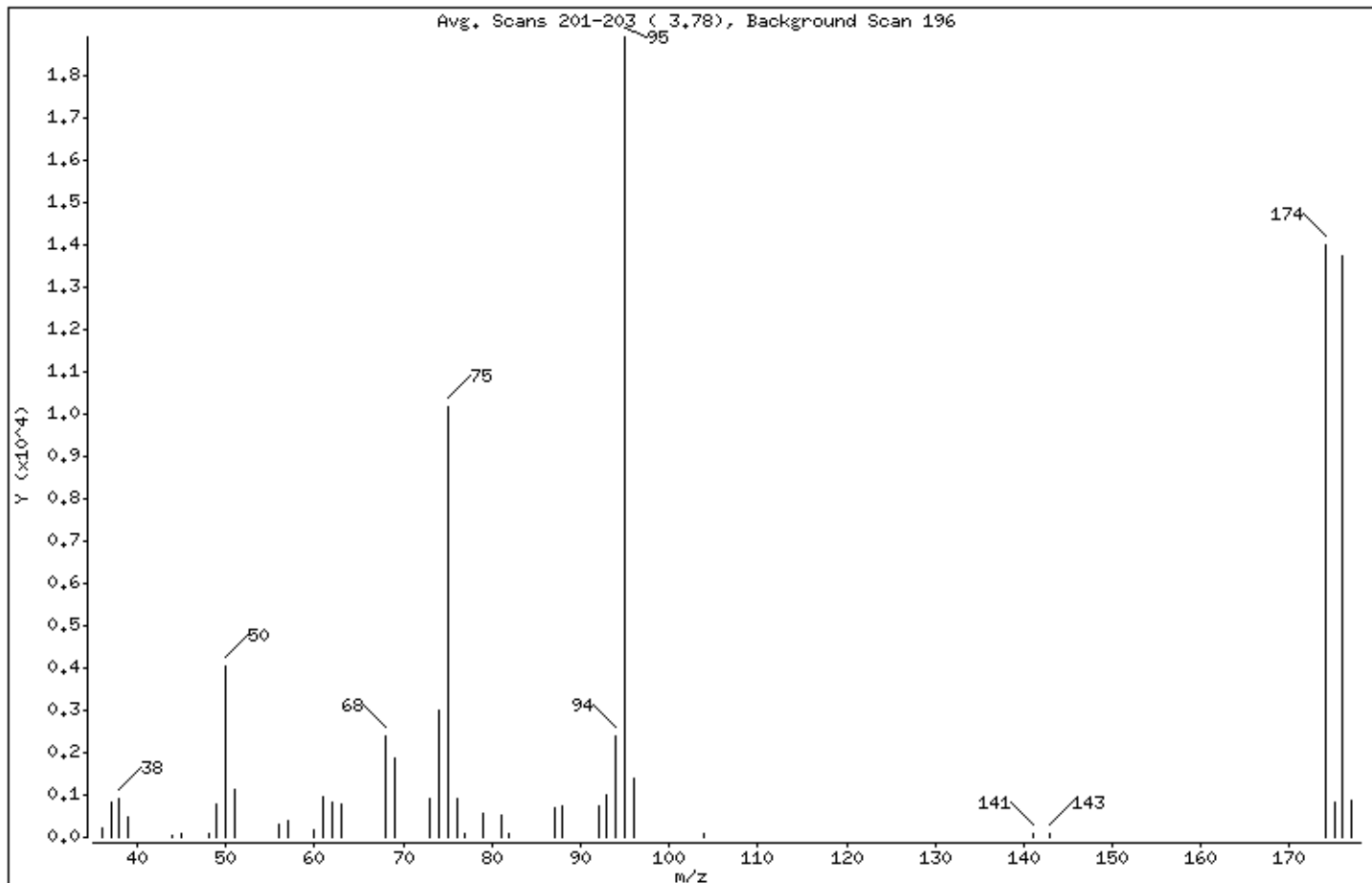
Sample Info: WG122901-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.27
75	30.00 - 60.00% of mass 95	53.81
96	5.00 - 9.00% of mass 95	7.29
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	74.04
175	5.00 - 9.00% of mass 174	4.27 (5.77)
176	95.00 - 101.00% of mass 174	72.59 (98.04)
177	5.00 - 9.00% of mass 176	4.67 (6.43)

Date : 19-APR-2013 07:58

Client ID:

Instrument: gcms-c.i

Sample Info: WG122901-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

Data File: CB539.D

Spectrum: Avg. Scans 201-203 (3.78), Background Scan 196

Location of Maximum: 95.00

Number of points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	207	57.00	391	77.00	87	104.00	68
37.00	817	60.00	171	79.00	544	141.00	94
38.00	925	61.00	953	81.00	527	143.00	108
39.00	494	62.00	815	82.00	69	174.00	13997
44.00	32	63.00	776	87.00	693	175.00	807
45.00	79	68.00	2389	88.00	730	176.00	13722
48.00	77	69.00	1875	92.00	739	177.00	882
49.00	767	73.00	895	93.00	1009		
50.00	4020	74.00	3015	94.00	2401		
51.00	1146	75.00	10173	95.00	18904		
56.00	318	76.00	895	96.00	1379		

Date : 22-APR-2013 08:02

Client ID:

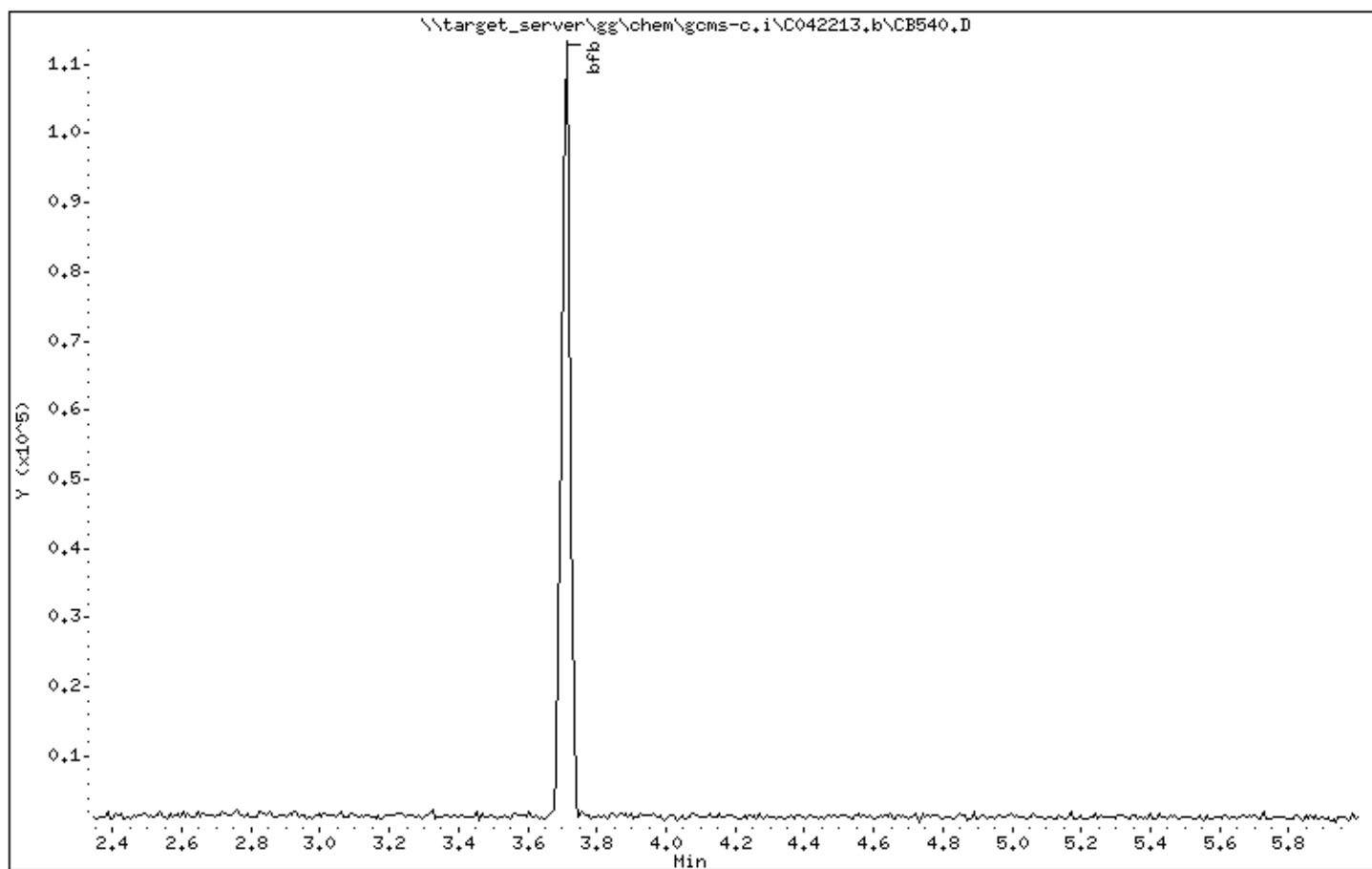
Instrument: goms-c.i

Sample Info: WG123007-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0,18



Date : 22-APR-2013 08:02

Client ID:

Instrument: gcms-c.i

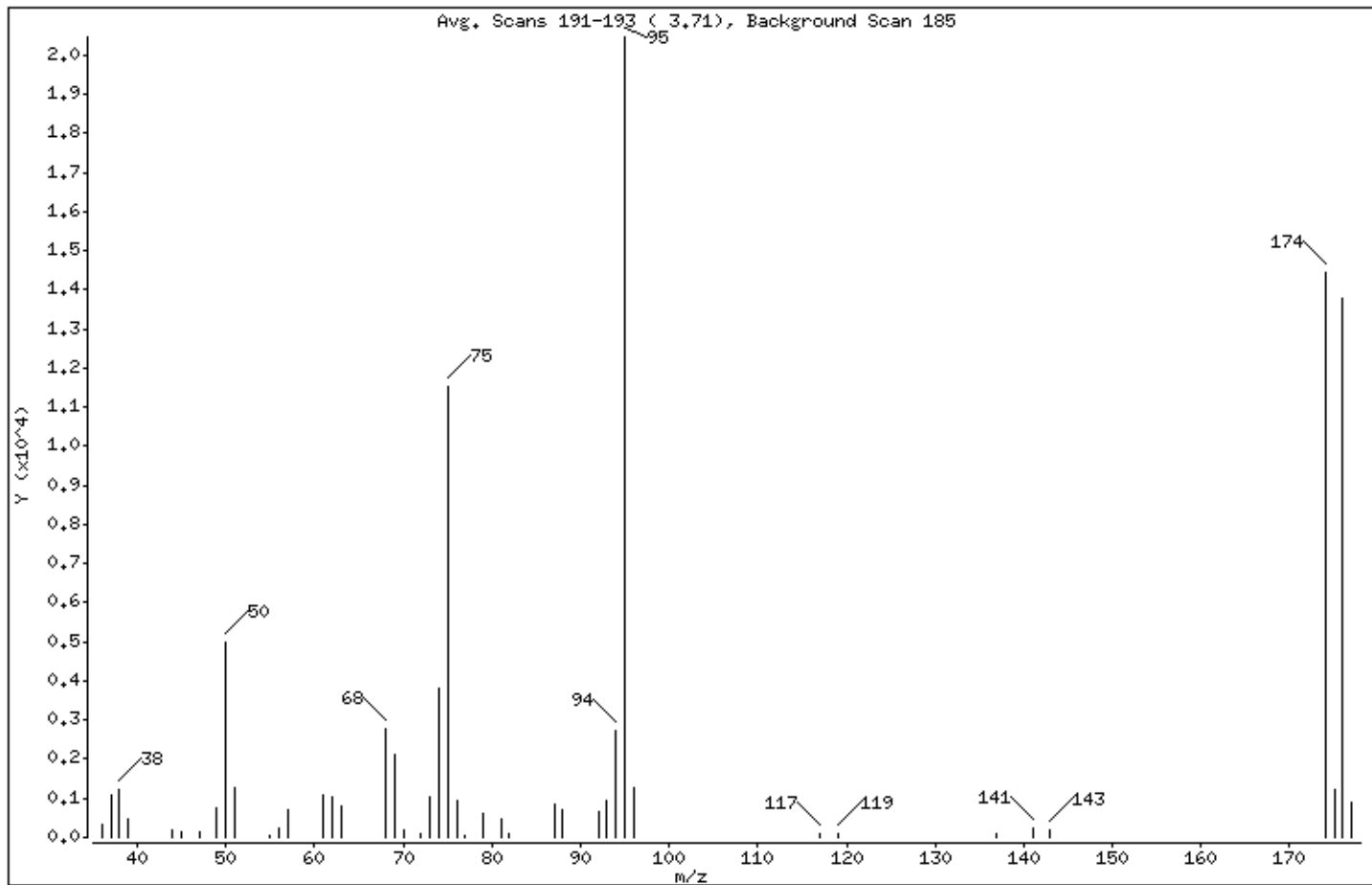
Sample Info: WG123007-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.48
75	30.00 - 60.00% of mass 95	56.32
96	5.00 - 9.00% of mass 95	6.15
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	70.56
175	5.00 - 9.00% of mass 174	5.87 (8.32)
176	95.00 - 101.00% of mass 174	67.45 (95.60)
177	5.00 - 9.00% of mass 176	4.43 (6.56)

Date : 22-APR-2013 08:02

Client ID:

Instrument: gcms-c.i

Sample Info: WG123007-3,SG2375

Operator: REC

Column phase: RTX-VHS

Column diameter: 0.18

Data File: CB540.D

Spectrum: Avg. Scans 191-193 (3.71), Background Scan 185

Location of Maximum: 95.00

Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	328	57.00	726	77.00	70	119.00	82
37.00	1082	61.00	1061	79.00	591	137.00	82
38.00	1213	62.00	1040	81.00	452	141.00	225
39.00	468	63.00	780	82.00	78	143.00	188
44.00	201	68.00	2759	87.00	826	174.00	14439
45.00	164	69.00	2126	88.00	705	175.00	1202
47.00	147	70.00	185	92.00	639	176.00	13803
49.00	731	72.00	78	93.00	927	177.00	906
50.00	5009	73.00	1043	94.00	2748		
51.00	1291	74.00	3793	95.00	20464		
55.00	69	75.00	11525	96.00	1259		
56.00	242	76.00	948	117.00	95		

Raw QC Data Section

Report of Analytical Results

Client:
Lab ID: WG122737-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0438.D

Sample Date:
Received Date:
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

Report of Analytical Results

Client:
Lab ID: WG122737-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0438.D

Sample Date:
Received Date:
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		113.	%					
Toluene-d8		100.	%					
P-Bromofluorobenzene		96.6	%					
Dibromofluoromethane		97.8	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041513.b\C0438.D
 Report Date: 23-Apr-2013 10:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041513.b\C0438.D
 Lab Smp Id: WG122737-2 Client Smp ID: WG122737-Blank
 Inj Date : 15-APR-2013 11:54 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122737-2, SG2375
 Misc Info : WG122737, WG122628-4, SG2375-1
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041513.b\C826A67.m
 Meth Date : 23-Apr-2013 10:52 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

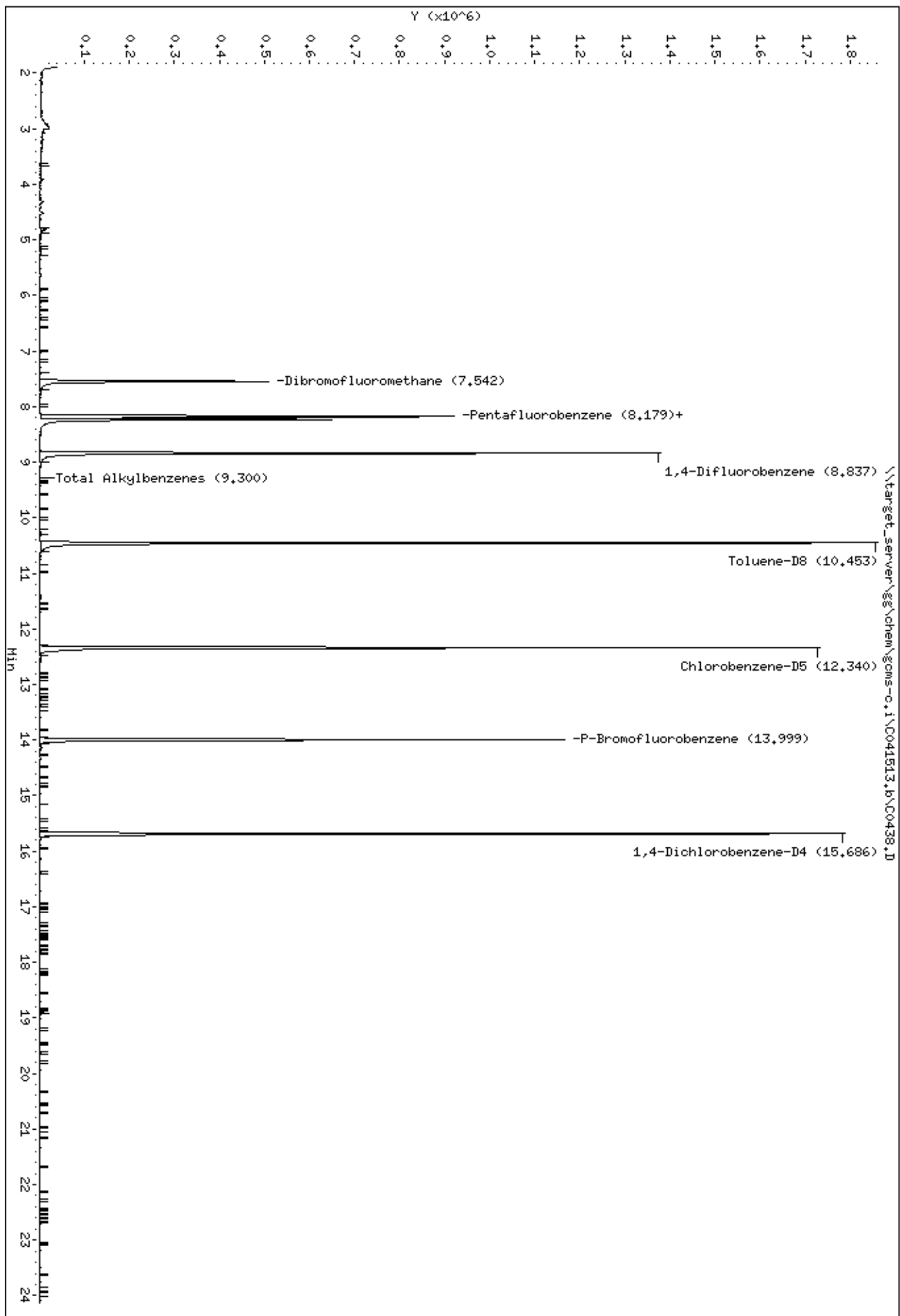
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 37 Dibromofluoromethane	113	7.549	7.550	(0.923)	317016	48.8828	48.9		
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	541181	50.0000			
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236	(1.006)	476944	56.3203	56.3		
* 49 1,4-Difluorobenzene	114	8.836	8.844	(1.000)	971500	50.0000			
\$ 55 Toluene-D8	98	10.452	10.453	(1.183)	1066935	50.0999	50.1		
* 66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	929005	50.0000			
\$ 76 P-Bromofluorobenzene	95	13.991	13.999	(1.583)	462337	48.3138	48.3		
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	455948	50.0000			

Data File: \\target_server\gs\chem\gms-c.i\CO41513.b\CO438.D
Date: 15-APR-2013 11:54
Client ID: MG122737-Blank
Sample Info: MG122737-2,SG2375

Instrument: gms-c.i



Report of Analytical Results

Client:
Lab ID: WG122853-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0513.D

Sample Date:
Received Date:
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

Report of Analytical Results

Client:
Lab ID: WG122853-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0513.D

Sample Date:
Received Date:
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		97.4	%					
Toluene-d8		98.4	%					
P-Bromofluorobenzene		93.6	%					
Dibromofluoromethane		90.9	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0513.D
 Report Date: 23-Apr-2013 11:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0513.D
 Lab Smp Id: WG122853-2 Client Smp ID: WG122853-Blank
 Inj Date : 18-APR-2013 11:37 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122853-2,SG2375
 Misc Info : WG122853,WG122628-4,SG2375-2
 Comment : SW846 5030
 Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
 Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

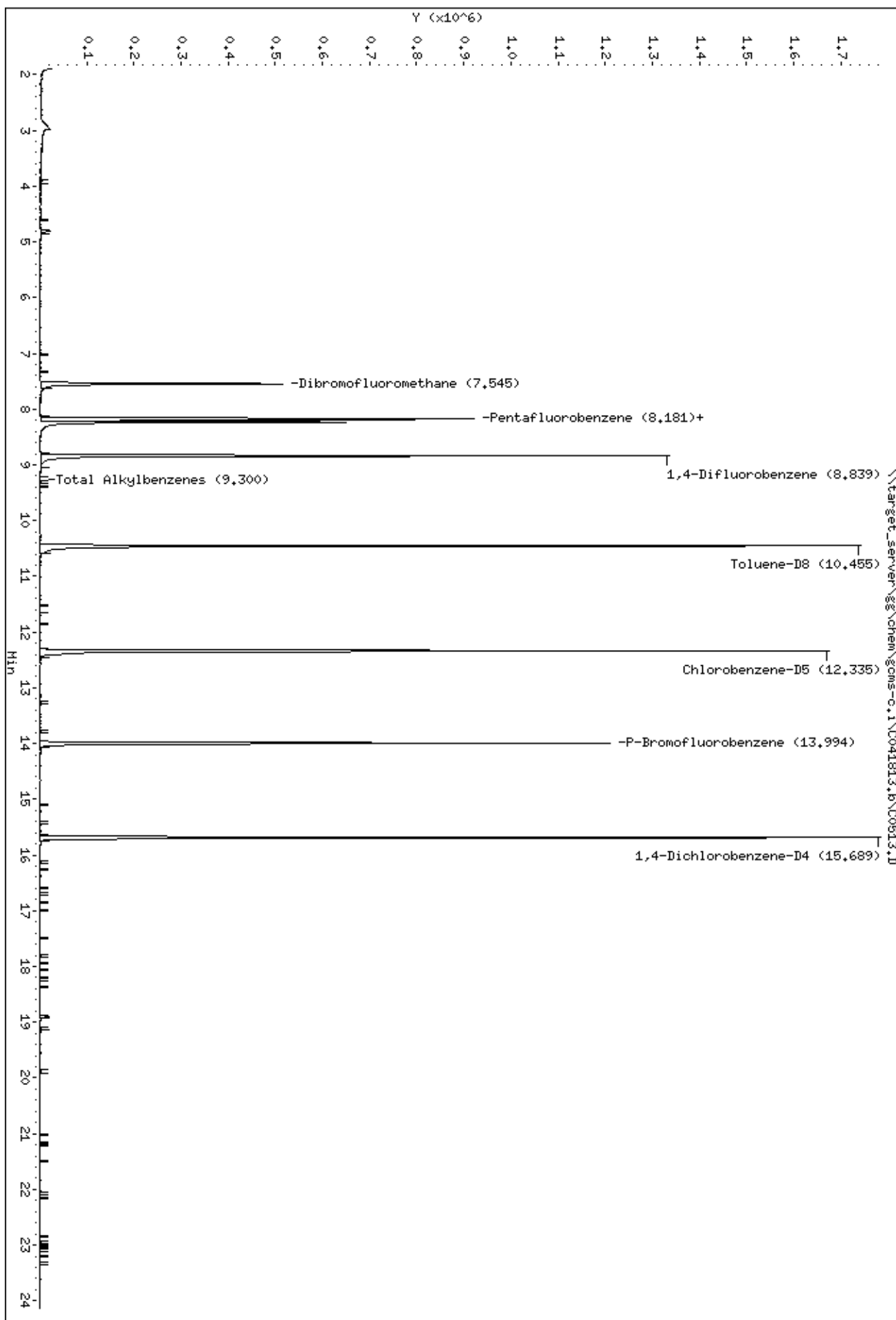
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/l)	FINAL (ug/l)	
\$ 37 Dibromofluoromethane	113	7.544	7.550	(0.922)	320682	45.4441	45.4	
* 42 Pentafluorobenzene	168	8.181	8.179	(1.000)	588863	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236	(1.006)	448793	48.7048	48.7	
* 49 1,4-Difluorobenzene	114	8.839	8.844	(1.000)	977661	50.0000		
\$ 55 Toluene-D8	98	10.454	10.453	(1.183)	1054215	49.1907	49.2	
* 66 Chlorobenzene-D5	117	12.335	12.340	(1.000)	936304	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.994	13.999	(1.583)	450683	46.7991	46.8	
* 91 1,4-Dichlorobenzene-D4	152	15.688	15.694	(1.000)	489223	50.0000		

Data File: \\target_server\gs\chem\goms-c.i\CO41813.b\CO513.D
Date: 18-APR-2013 11:37
Client ID: MG122853-Blank
Sample Info: MG122853-2,SG2375

Instrument: goms-c.i



Report of Analytical Results

Client:
Lab ID: WG122901-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0539.D

Sample Date:
Received Date:
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

Report of Analytical Results

Client:
Lab ID: WG122901-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0539.D

Sample Date:
Received Date:
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		96.1	%					
Toluene-d8		97.9	%					
P-Bromofluorobenzene		94.3	%					
Dibromofluoromethane		89.7	%					

Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0539.D
 Report Date: 23-Apr-2013 11:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041913.b\C0539.D
 Lab Smp Id: WG122901-2 Client Smp ID: WG122901-Blank
 Inj Date : 19-APR-2013 12:19 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122901-2, SG2375
 Misc Info : WG122901, WG122628-4, SG2375-11
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C041913.b\C826A67.m
 Meth Date : 23-Apr-2013 11:05 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

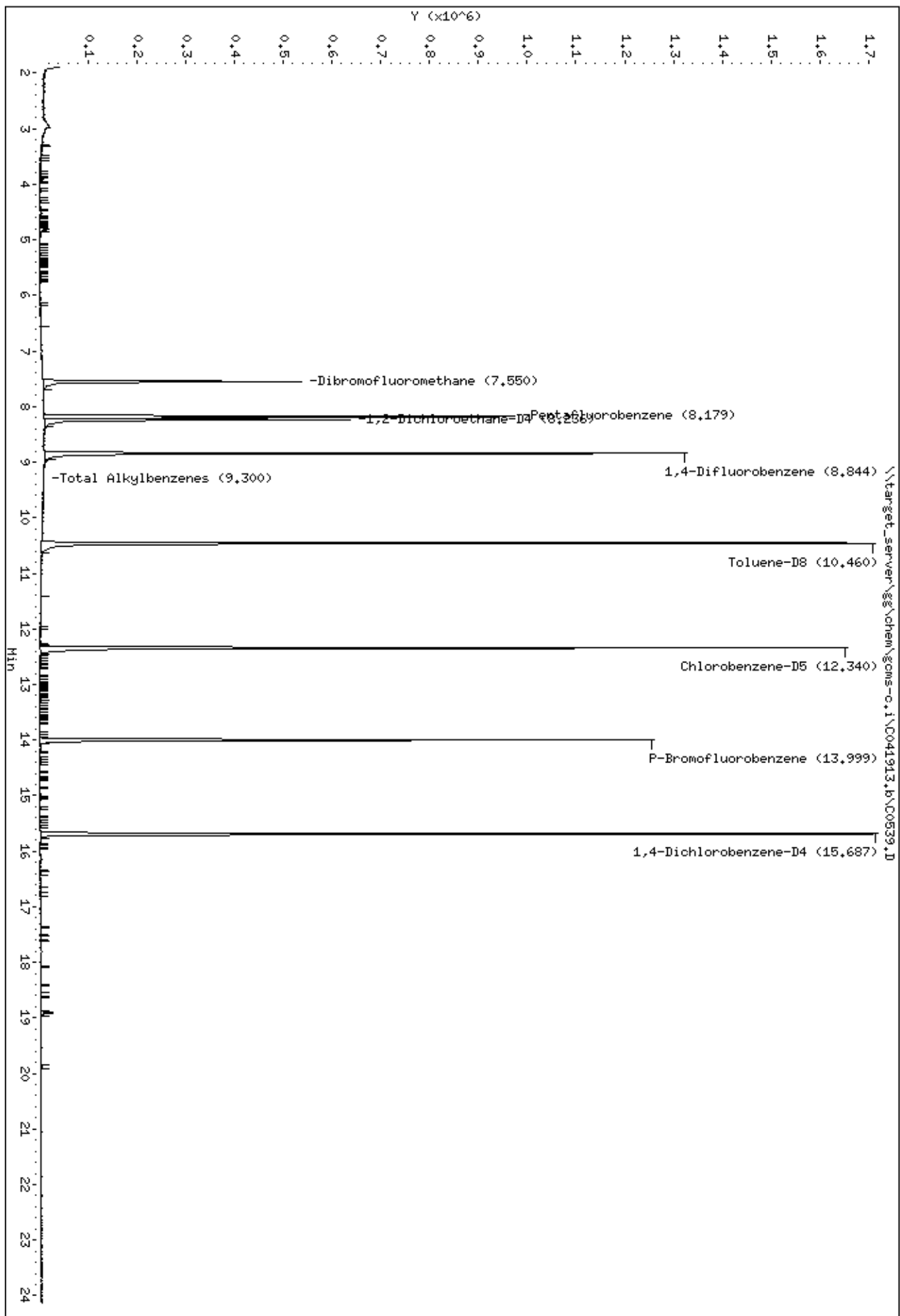
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/l)	FINAL (ug/l)	
\$ 37 Dibromofluoromethane	113	7.549	7.550	(0.923)	321526	44.8382	44.8	
* 42 Pentafluorobenzene	168	8.179	8.179	(1.000)	598391	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.236	8.236	(1.007)	449930	48.0507	48.0	
* 49 1,4-Difluorobenzene	114	8.844	8.844	(1.000)	982781	50.0000		
\$ 55 Toluene-D8	98	10.459	10.453	(1.183)	1054754	48.9594	49.0	
* 66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	939577	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.999	13.999	(1.583)	456449	47.1510	47.2	
* 91 1,4-Dichlorobenzene-D4	152	15.693	15.694	(1.000)	493744	50.0000		

Data File: \\target_server\gs\chem\goms-c.i\CO41913.b\CO539.D
 Date : 19-APR-2013 12:19
 Client ID: MG122901-Blank
 Sample Info: MG122901-2,SG2375

Instrument: goms-c.i



Report of Analytical Results

Client:
Lab ID: WG123007-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0564.D

Sample Date:
Received Date:
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	2.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	2.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	2.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	2.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35	0.50
Freon-113	U	1.0	ug/L	1	1	1.0	0.31	0.50
Acetone	U	5.0	ug/L	1	5	5.0	2.2	2.5
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl Acetate	U	1.0	ug/L	1	1	1.0	0.53	0.75
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1	2.5
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	1.0	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21	0.50
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Chloroform	U	1.0	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Cyclohexane	U	1.0	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22	0.50
Benzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28	0.50
Methylcyclohexane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3	2.5
Toluene	U	1.0	ug/L	1	1	1.0	0.27	0.50
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40	0.50
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7	2.5

Report of Analytical Results

Client:
Lab ID: WG123007-2
Client ID: Method Blank Sample
Project:
SDG: SG2375
Lab File ID: C0564.D

Sample Date:
Received Date:
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	1.0	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
M+P-Xylenes	U	2.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25	0.50
Styrene	U	1.0	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	1.0	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	1.0	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	1	1.0	0.50	0.50
1,2,4-Trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.37	0.50
bromochloromethane	U	1.0	ug/L	1	1	1.0	0.21	0.50
1,4-Dioxane	U	100	ug/L	1	100	100	8.8	50.
1,2,3-trichlorobenzene	U	1.0	ug/L	1	1	1.0	0.27	0.50
1,3,5-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.20	0.50
1,2,4-Trimethylbenzene	U	1.0	ug/L	1	1	1.0	0.19	0.50
4-Chlorotoluene	U	1.0	ug/L	1	1	1.0	0.19	0.50
n-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	1.0	ug/L	1	1	1.0	0.26	0.50
Naphthalene	U	1.0	ug/L	1	1	1.0	0.30	0.50
p-Isopropyltoluene	U	1.0	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	1.0	ug/L	1	1	1.0	0.31	0.50
1,2-Dichloroethane-d4		93.0	%					
Toluene-d8		97.0	%					
P-Bromofluorobenzene		94.6	%					
Dibromofluoromethane		90.0	%					

Data File: \\target_server\gg\chem\gcms-c.i\C042213.b\C0564.D
 Report Date: 23-Apr-2013 11:17

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C042213.b\C0564.D
 Lab Smp Id: WG123007-2 Client Smp ID: WG123007-Blank
 Inj Date : 22-APR-2013 13:28 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG123007-2, SG2375
 Misc Info : WG123007, WG122628-4, SG2375-12
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C042213.b\C826A67.m
 Meth Date : 23-Apr-2013 11:14 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 9 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

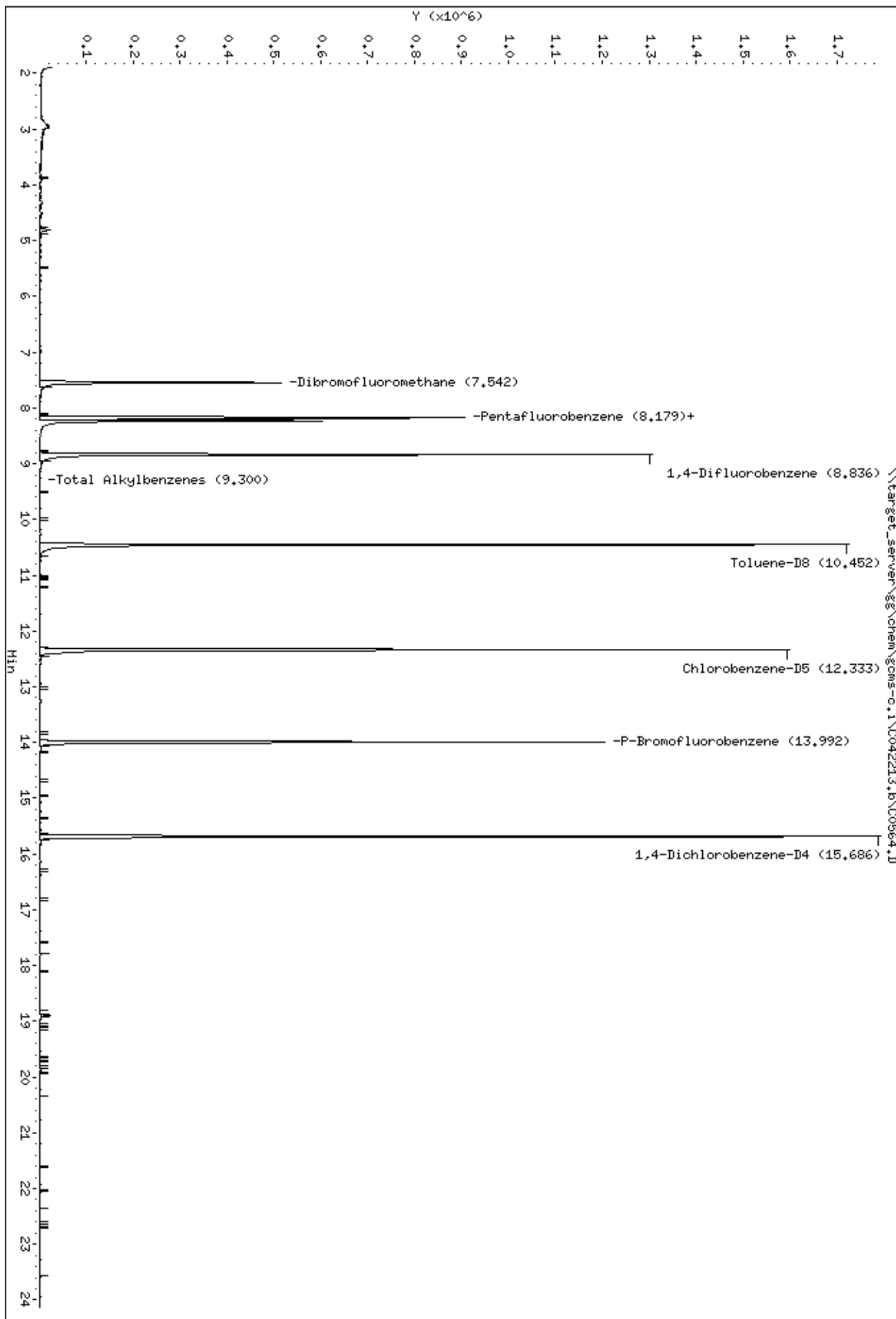
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/l)	FINAL (ug/l)	
\$ 37 Dibromofluoromethane	113	7.542	7.550	(0.922)	314423	45.0123	45.0	
* 42 Pentafluorobenzene	168	8.178	8.179	(1.000)	582908	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236	(1.006)	424278	46.5148	46.5	
* 49 1,4-Difluorobenzene	114	8.836	8.844	(1.000)	973208	50.0000		
\$ 55 Toluene-D8	98	10.452	10.453	(1.183)	1034573	48.4950	48.5	
* 66 Chlorobenzene-D5	117	12.332	12.340	(1.000)	942972	50.0000		
\$ 76 P-Bromofluorobenzene	95	13.991	13.999	(1.583)	453569	47.3143	47.3	
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	523175	50.0000		

Data File: \\target_server\gs\chem\goms-c.i\CO42213.b\CO564.D
Date : 22-APR-2013 13:28
Client ID: MG123007-Blank
Sample Info: MG123007-2,SG2375

Instrument: goms-c.i



LCS Recovery Report

Client:
Lab ID: WG122737-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0434.D

Sample Date:
Received Date:
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	* 193.	50.0	96.3	ug/L	29-164
Chloromethane	118.	50.0	59.0	ug/L	59-123
Vinyl Chloride	* 132.	50.0	66.2	ug/L	64-131
Bromomethane	114.	50.0	56.9	ug/L	57-135
Chloroethane	129.	50.0	64.3	ug/L	53-157
Trichlorofluoromethane	102.	50.0	50.8	ug/L	70-149
1,1-Dichloroethene	92.8	50.0	46.4	ug/L	88-127
Freon-113	85.8	50.0	42.9	ug/L	73-126
Acetone	92.8	50.0	46.4	ug/L	62-172
Carbon Disulfide	112.	50.0	55.9	ug/L	71-129
Methyl Acetate	88.0	50.0	44.0	ug/L	70-132
Methylene Chloride	98.8	50.0	49.4	ug/L	72-129
trans-1,2-Dichloroethene	89.2	50.0	44.6	ug/L	78-125
Methyl tert-butyl Ether	104.	100.	104.	ug/L	81-125
1,1-Dichloroethane	99.8	50.0	49.9	ug/L	76-130
cis-1,2-Dichloroethene	92.6	50.0	46.3	ug/L	85-123
2-Butanone	104.	50.0	52.0	ug/L	71-132
Chloroform	95.4	50.0	47.7	ug/L	78-128
1,1,1-Trichloroethane	99.8	50.0	49.9	ug/L	77-129
Cyclohexane	98.4	50.0	49.2	ug/L	71-133
Carbon Tetrachloride	110.	50.0	55.2	ug/L	87-126
Benzene	98.2	50.0	49.1	ug/L	86-116
1,2-Dichloroethane	104.	50.0	52.2	ug/L	81-125
Trichloroethene	93.6	50.0	46.8	ug/L	79-121
Methylcyclohexane	95.0	50.0	47.5	ug/L	73-125
1,2-Dichloropropane	99.6	50.0	49.8	ug/L	84-118
Bromodichloromethane	106.	50.0	53.0	ug/L	85-122
cis-1,3-Dichloropropene	97.6	50.0	48.8	ug/L	83-119
4-Methyl-2-Pentanone	117.	50.0	58.7	ug/L	83-122
Toluene	97.6	50.0	48.8	ug/L	84-118
trans-1,3-Dichloropropene	115.	50.0	57.6	ug/L	85-135
1,1,2-Trichloroethane	103.	50.0	51.6	ug/L	84-115
Tetrachloroethene	100.	50.0	50.2	ug/L	47-155
2-Hexanone	122.	50.0	61.0	ug/L	80-124
Dibromochloromethane	118.	50.0	59.2	ug/L	85-119

LCS Recovery Report

Client:
Lab ID: WG122737-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0434.D

Sample Date:
Received Date:
Extract Date: 15-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122737

Analysis Date: 15-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	100.	50.0	50.0	ug/L	84-116
Chlorobenzene	109.	50.0	54.4	ug/L	89-113
Ethylbenzene	102.	50.0	51.2	ug/L	88-113
M+P-Xylenes	106.	100.	106.	ug/L	88-116
o-Xylene	109.	50.0	54.7	ug/L	90-116
Styrene	106.	50.0	53.0	ug/L	88-117
Bromoform	* 118.	50.0	58.8	ug/L	86-117
Isopropylbenzene	111.	50.0	55.6	ug/L	96-136
1,1,2,2-Tetrachloroethane	100.	50.0	50.2	ug/L	79-121
1,3-Dichlorobenzene	* 111.	50.0	55.7	ug/L	86-110
1,4-Dichlorobenzene	98.2	50.0	49.1	ug/L	86-111
1,2-Dichlorobenzene	* 113.	50.0	56.3	ug/L	86-112
1,2-Dibromo-3-Chloropropane	117.	50.0	58.3	ug/L	67-124
1,2,4-Trichlorobenzene	102.	50.0	50.8	ug/L	76-126
bromochloromethane	93.0	50.0	46.5	ug/L	85-117
1,4-Dioxane	88.8	1000	888.	ug/L	10-149
1,2,3-trichlorobenzene	96.2	50.0	48.1	ug/L	70-122
1,3,5-Trimethylbenzene	102.	50.0	51.1	ug/L	80-123
1,2,4-Trimethylbenzene	103.	50.0	51.7	ug/L	83-118
4-Chlorotoluene	110.	50.0	54.8	ug/L	81-122
n-Butylbenzene	102.	50.0	50.8	ug/L	84-121
n-Propylbenzene	110.	50.0	55.1	ug/L	83-121
Naphthalene	113.	50.0	56.4	ug/L	62-126
p-Isopropyltoluene	117.	50.0	58.5	ug/L	88-121
sec-Butylbenzene	111.	50.0	55.5	ug/L	82-122
tert-Butylbenzene	115.	50.0	57.7	ug/L	84-121
1,2-Dichloroethane-d4	93.1				67-135
Toluene-d8	97.3				65-128
P-Bromofluorobenzene	95.7				56-133
Dibromofluoromethane	92.4				68-128

Data File: \\target_server\gg\chem\gcms-c.i\C041513.b\C0434.D
Report Date: 23-Apr-2013 10:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041513.b\C0434.D
Lab Smp Id: WG122737-1 Client Smp ID: WG122737-LCS
Inj Date : 15-APR-2013 09:29 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122737-1,SG2375
Misc Info : WG122737,WG122628-4,SG2375-1
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C041513.b\C826A67.m
Meth Date : 23-Apr-2013 10:52 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.058	2.057 (0.252)		497051		96.2903	96.3(R)	
2 Chloromethane	50	2.308	2.309 (0.282)		534474		59.0466	59.0	
3 Vinyl chloride	62	2.408	2.409 (0.295)		441588		66.2190	66.2(R)	
4 Bromomethane	94	2.823	2.824 (0.345)		265499		56.8618	56.9	
5 Chloroethane	64	2.980	2.988 (0.364)		155477		64.2896	64.3	
6 Trichlorofluoromethane	101	3.159	3.167 (0.386)		635713		50.7901	50.8	
7 Diethyl Ether	59	3.609	3.610 (0.441)		255094		47.8130	47.8	
8 Tertiary-butyl alcohol	59	5.497	5.498 (0.672)		196703		293.761	294	
9 1,1-Dichloroethene	96	3.881	3.882 (0.475)		297215		46.4473	46.4	
10 Carbon Disulfide	76	3.917	3.925 (0.479)		1097836		55.8764	55.9	
11 Freon-113	151	3.945	3.946 (0.482)		154255		42.8641	42.9	
12 Iodomethane	142	4.096	4.103 (0.501)		317779		55.3864	55.4	
13 Acrolein	56	4.410	4.418 (0.539)		244110		176.692	177	
14 Methylene Chloride	84	4.811	4.818 (0.588)		383642		49.4537	49.4	
15 Acetone	43	4.911	4.911 (0.600)		158934		46.4391	46.4	
16 Isobutyl Alcohol	43	8.379	8.379 (1.024)		280727		1057.25	1060	
17 trans-1,2-Dichloroethene	96	5.089	5.090 (0.622)		324510		44.5870	44.6	
18 Allyl Chloride	41	4.632	4.633 (0.566)		459021		48.5956	48.6	
19 Methyl tert-butyl ether	73	5.290	5.297 (0.647)		1876910		104.569	104	
20 Acetonitrile	39	5.704	5.705 (0.698)		128119		501.015	501	
21 Di-isopropyl ether	45	5.940	5.941 (0.726)		1066341		50.2200	50.2	
22 Chloroprene	53	6.069	6.070 (0.742)		462956		50.6514	50.6	
23 Propionitrile	54	8.107	8.106 (0.991)		575284		508.172	508	
24 Methacrylonitrile	41	8.128	8.129 (0.994)		2276038		533.821	534	

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.105	6.113 (0.746)	685600	49.9110	49.9	
26 Acrylonitrile	52	6.198	6.198 (0.758)	498928	191.513	192	
27 Ethyl tertiary-butyl ether	59	6.498	6.499 (0.795)	953403	52.2918	52.3	
28 Vinyl Acetate	43	6.520	6.520 (0.738)	1012305	69.1046	69.1(R)	
29 cis-1,2-Dichloroethene	96	6.913	6.913 (0.845)	359050	46.2783	46.3	
M 30 1,2-Dichloroethylene (total)	96			683560	90.8653	90.9	
31 Methyl Methacrylate	41	9.694	9.702 (1.097)	341289	57.2203	57.2	
32 2,2-Dichloropropane	77	7.056	7.064 (0.863)	558593	51.2773	51.3	
33 Bromochloromethane	128	7.184	7.185 (0.878)	146947	46.4627	46.5	
34 Chloroform	83	7.299	7.307 (0.892)	668766	47.6609	47.7	
35 Carbon Tetrachloride	117	7.463	7.464 (0.845)	456838	55.2239	55.2	
36 Tetrahydrofuran	42	7.506	7.507 (0.918)	125988	50.2022	50.2	
\$ 37 Dibromofluoromethane	113	7.542	7.550 (0.922)	357731	46.1796	46.2	
38 1,1,1-Trichloroethane	97	7.563	7.564 (0.925)	600300	49.9398	49.9	
39 1,1-Dichloropropene	75	11.003	11.003 (1.245)	583106	57.6103	57.6	
40 2-Butanone	43	7.721	7.721 (0.944)	210281	52.0367	52.0	
41 Benzene	78	8.057	8.057 (0.912)	1296936	49.1079	49.1	
* 42 Pentafluorobenzene	168	8.178	8.179 (1.000)	646434	50.0000		
43 Cyclohexane	56	7.170	7.178 (0.877)	568434	49.1824	49.2	
44 Ethyl Methacrylate	69	11.189	11.189 (1.266)	453994	59.4674	59.5	
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236 (1.006)	470954	46.5580	46.6	
46 Tertiary-amyl methyl ether	73	8.214	8.222 (1.004)	841139	53.6120	53.6	
47 1,2-Dichloroethane	62	8.321	8.321 (0.942)	546633	52.2433	52.2	
48 Trichloroethene	95	8.793	8.794 (0.995)	330973	46.7547	46.8	
* 49 1,4-Difluorobenzene	114	8.836	8.844 (1.000)	1120485	50.0000		
50 Dibromomethane	93	9.301	9.302 (1.053)	239836	50.9652	51.0	
51 1,2-Dichloropropane	63	9.422	9.423 (1.066)	346470	49.7609	49.8	
52 Bromodichloromethane	83	9.501	9.502 (1.075)	522818	53.0495	53.0	
53 cis-1,3-dichloropropene	75	10.245	10.245 (1.159)	565320	48.8193	48.8	
54 1,4-Dioxane	88	9.744	9.745 (1.103)	92539	887.603	888	
\$ 55 Toluene-D8	98	10.452	10.453 (1.183)	1194980	48.6515	48.6	
56 2-Chloroethylvinylether	63	10.180	10.181 (1.152)	160158	58.6277	58.6	
57 Toluene	92	10.516	10.517 (1.190)	800923	48.8295	48.8	
58 4-methyl-2-pentanone	43	10.960	10.960 (1.240)	392254	58.7153	58.7	
59 Tetrachloroethene	164	10.960	10.960 (0.888)	248460	50.1697	50.2	
60 trans-1,3-Dichloropropene	75	11.003	11.003 (1.245)	583106	57.6103	57.6	
61 1,1,2-Trichloroethane	83	11.196	11.196 (1.267)	278299	51.6041	51.6	
62 Dibromochloromethane	129	11.410	11.411 (0.925)	374069	59.2342	59.2	
63 1,3-Dichloropropane	76	11.525	11.525 (0.934)	600737	52.7595	52.8	
64 1,2-Dibromoethane	107	11.696	11.697 (1.324)	344421	50.0056	50.0	
65 2-Hexanone	43	11.982	11.976 (0.971)	292544	61.0271	61.0	
* 66 Chlorobenzene-D5	117	12.340	12.340 (1.000)	1051416	50.0000		
67 Chlorobenzene	112	12.361	12.362 (1.002)	881715	54.3699	54.4	
152 1-Chlorohexane	91	12.333	12.333 (0.999)	518631	50.8217	50.8	
68 Ethylbenzene	106	12.397	12.398 (1.005)	471416	51.1711	51.2	
69 1,1,1,2-Tetrachloroethane	131	12.447	12.448 (1.009)	326478	55.5348	55.5	
M 70 Xylenes (total)	106			1716847	160.365	160	
71 m+p-Xylenes	106	12.583	12.583 (1.020)	1151484	105.686	106	
72 o-Xylene	106	13.162	13.163 (1.067)	565363	54.6793	54.7	
73 Styrene	104	13.233	13.234 (1.072)	966715	52.9824	53.0	
74 Bromoform	173	13.269	13.270 (1.075)	254149	58.8558	58.8(R)	
75 Isopropylbenzene	105	13.591	13.592 (0.866)	1522859	55.6068	55.6	
\$ 76 P-Bromofluorobenzene	95	13.999	13.999 (1.584)	528350	47.8708	47.9	
77 cis-1,4-Dichloro-2-Butene	53	14.099	14.099 (0.899)	165093	60.0467	60.0	

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS						ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
78 trans-1,4-Dichloro-2-Butene	53		14.556	14.557 (0.928)		163447	63.1574	63.2	
79 Bromobenzene	156		14.149	14.149 (0.902)		385990	50.6358	50.6	
80 N-Propylbenzene	91		14.184	14.192 (0.904)		1947737	55.1049	55.1	
81 1,1,2,2-Tetrachloroethane	83		14.292	14.292 (0.911)		482464	50.2505	50.2	
82 1,3,5-Trimethylbenzene	105		14.478	14.478 (0.923)		1346482	51.0702	51.1	
83 2-Chlorotoluene	91		14.413	14.421 (0.919)		1170995	53.4979	53.5	
84 1,2,3-Trichloropropane	75		14.492	14.500 (0.924)		406113	51.8353	51.8	
85 4-Chlorotoluene	91		14.664	14.664 (0.935)		1228541	54.7730	54.8	
86 tert-Butylbenzene	119		14.957	14.957 (0.954)		1359069	57.6733	57.7	
87 Pentachloroethane	117		14.992	14.993 (0.956)		311876	61.4844	61.5	
88 1,2,4-Trimethylbenzene	105		15.071	15.072 (0.961)		1353443	51.7377	51.7	
89 P-Isopropyltoluene	119		15.464	15.465 (0.986)		1497694	58.4640	58.5	
90 1,3-Dichlorobenzene	146		15.572	15.572 (0.993)		736022	55.7166	55.7(R)	
* 91 1,4-Dichlorobenzene-D4	152		15.686	15.694 (1.000)		573375	50.0000		
92 1,4-Dichlorobenzene	146		15.715	15.715 (1.002)		735012	49.1432	49.1	
93 N-Butylbenzene	91		16.144	16.143 (1.029)		1591594	50.7797	50.8	
94 sec-Butylbenzene	105		15.236	15.236 (0.971)		1788826	55.5230	55.5	
95 1,2-Dichlorobenzene	146		16.394	16.393 (1.045)		697328	56.2717	56.3(R)	
96 1,2-Dibromo-3-Chloropropane	75		17.745	17.753 (1.131)		101168	58.3295	58.3	
97 1,3,5-Trichlorobenzene	180		17.802	17.803 (1.135)		573739	56.4149	56.4	
98 Hexachlorobutadiene	225		18.911	18.911 (1.206)		251812	53.5908	53.6	
99 1,2,4-Trichlorobenzene	180		18.946	18.947 (1.208)		458311	50.7519	50.8	
100 1,2,3-Trimethylbenzene	105		15.750	15.758 (1.004)		1403554	57.7708	57.8	
101 Naphthalene	128		19.540	19.541 (1.246)		1074487	56.4092	56.4	
102 1,2,3-Trichlorobenzene	180		19.876	19.877 (1.267)		377672	48.0740	48.1	
103 Methyl Acetate	43		5.140	5.140 (0.628)		286865	44.0340	44.0	
104 Methylcyclohexane	83		8.772	8.772 (1.073)		490210	47.5170	47.5	
M 153 Total Alkylbenzenes	100					10884845	380.353	380	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gs\chem\goms-c.i\CO41513.b\CO434.D

Date : 15-APR-2013 09:29

Client ID: MG122737-LCS

Sample Info: MG122737-1,SG2375

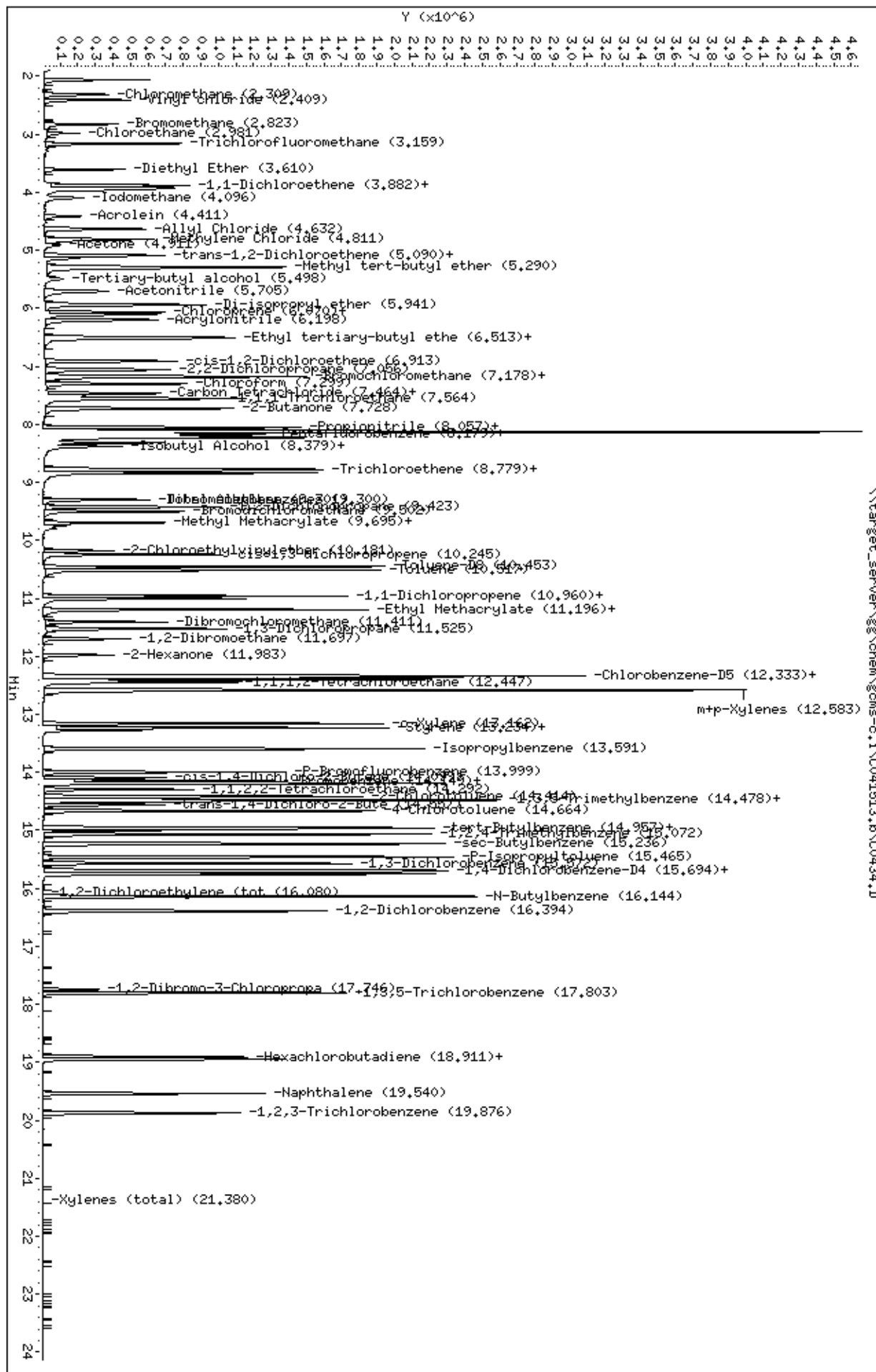
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



LCS Recovery Report

Client:
Lab ID: WG122853-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0510.D

Sample Date:
Received Date:
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	* 171.	50.0	85.5	ug/L	29-164
Chloromethane	104.	50.0	51.9	ug/L	59-123
Vinyl Chloride	111.	50.0	55.6	ug/L	64-131
Bromomethane	107.	50.0	53.7	ug/L	57-135
Chloroethane	129.	50.0	64.7	ug/L	53-157
Trichlorofluoromethane	93.4	50.0	46.7	ug/L	70-149
1,1-Dichloroethene	* 83.2	50.0	41.6	ug/L	88-127
Freon-113	106.	50.0	52.9	ug/L	73-126
Acetone	81.0	50.0	40.5	ug/L	62-172
Carbon Disulfide	90.8	50.0	45.4	ug/L	71-129
Methyl Acetate	87.2	50.0	43.6	ug/L	70-132
Methylene Chloride	87.6	50.0	43.8	ug/L	72-129
trans-1,2-Dichloroethene	80.8	50.0	40.4	ug/L	78-125
Methyl tert-butyl Ether	101.	100.	101.	ug/L	81-125
1,1-Dichloroethane	88.4	50.0	44.2	ug/L	76-130
cis-1,2-Dichloroethene	* 82.6	50.0	41.3	ug/L	85-123
2-Butanone	88.6	50.0	44.3	ug/L	71-132
Chloroform	88.6	50.0	44.3	ug/L	78-128
1,1,1-Trichloroethane	94.8	50.0	47.4	ug/L	77-129
Cyclohexane	82.8	50.0	41.4	ug/L	71-133
Carbon Tetrachloride	112.	50.0	56.1	ug/L	87-126
Benzene	90.4	50.0	45.2	ug/L	86-116
1,2-Dichloroethane	99.2	50.0	49.6	ug/L	81-125
Trichloroethene	90.6	50.0	45.3	ug/L	79-121
Methylcyclohexane	100.	50.0	50.1	ug/L	73-125
1,2-Dichloropropane	91.0	50.0	45.5	ug/L	84-118
Bromodichloromethane	101.	50.0	50.7	ug/L	85-122
cis-1,3-Dichloropropene	91.6	50.0	45.8	ug/L	83-119
4-Methyl-2-Pentanone	101.	50.0	50.5	ug/L	83-122
Toluene	91.4	50.0	45.7	ug/L	84-118
trans-1,3-Dichloropropene	109.	50.0	54.7	ug/L	85-135
1,1,2-Trichloroethane	95.0	50.0	47.5	ug/L	84-115
Tetrachloroethene	104.	50.0	52.0	ug/L	47-155
2-Hexanone	104.	50.0	52.2	ug/L	80-124
Dibromochloromethane	115.	50.0	57.7	ug/L	85-119

LCS Recovery Report

Client:
Lab ID: WG122853-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0510.D

Sample Date:
Received Date:
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	98.2	50.0	49.1	ug/L	84-116
Chlorobenzene	106.	50.0	53.1	ug/L	89-113
Ethylbenzene	98.6	50.0	49.3	ug/L	88-113
M+P-Xylenes	102.	100.	102.	ug/L	88-116
o-Xylene	107.	50.0	53.4	ug/L	90-116
Styrene	101.	50.0	50.6	ug/L	88-117
Bromoform	112.	50.0	55.8	ug/L	86-117
Isopropylbenzene	104.	50.0	51.8	ug/L	96-136
1,1,2,2-Tetrachloroethane	85.4	50.0	42.7	ug/L	79-121
1,3-Dichlorobenzene	105.	50.0	52.7	ug/L	86-110
1,4-Dichlorobenzene	94.4	50.0	47.2	ug/L	86-111
1,2-Dichlorobenzene	105.	50.0	52.6	ug/L	86-112
1,2-Dibromo-3-Chloropropane	104.	50.0	51.8	ug/L	67-124
1,2,4-Trichlorobenzene	101.	50.0	50.6	ug/L	76-126
bromochloromethane	89.8	50.0	44.9	ug/L	85-117
1,4-Dioxane	92.2	1000	922.	ug/L	10-149
1,2,3-trichlorobenzene	96.2	50.0	48.1	ug/L	70-122
1,3,5-Trimethylbenzene	93.2	50.0	46.6	ug/L	80-123
1,2,4-Trimethylbenzene	96.6	50.0	48.3	ug/L	83-118
4-Chlorotoluene	101.	50.0	50.5	ug/L	81-122
n-Butylbenzene	90.8	50.0	45.4	ug/L	84-121
n-Propylbenzene	97.4	50.0	48.7	ug/L	83-121
Naphthalene	102.	50.0	51.2	ug/L	62-126
p-Isopropyltoluene	110.	50.0	54.8	ug/L	88-121
sec-Butylbenzene	103.	50.0	51.5	ug/L	82-122
tert-Butylbenzene	109.	50.0	54.6	ug/L	84-121
1,2-Dichloroethane-d4	89.9				67-135
Toluene-d8	95.8				65-128
P-Bromofluorobenzene	94.6				56-133
Dibromofluoromethane	89.4				68-128

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0510.D
 Report Date: 23-Apr-2013 11:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0510.D
 Lab Smp Id: WG122853-1 Client Smp ID: WG122853-LCS
 Inj Date : 18-APR-2013 09:42 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG122853-1,SG2375
 Misc Info : WG122853,WG122628-4,SG2375-2
 Comment : SW846 5030
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 Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.058	2.057 (0.252)		434706		85.4935	85.5(R)	
2 Chloromethane	50	2.308	2.309 (0.282)		462817		51.9392	51.9	
3 Vinyl chloride	62	2.401	2.409 (0.294)		366756		55.6043	55.6	
4 Bromomethane	94	2.823	2.824 (0.345)		246096		53.6862	53.7	
5 Chloroethane	64	2.980	2.988 (0.364)		153461		64.6668	64.7	
6 Trichlorofluoromethane	101	3.159	3.167 (0.386)		578024		46.6627	46.7	
7 Diethyl Ether	59	3.602	3.610 (0.441)		248152		47.3766	47.4	
8 Tertiary-butyl alcohol	59	5.490	5.498 (0.671)		166556		253.364	253	
9 1,1-Dichloroethene	96	3.881	3.882 (0.475)		261415		41.6122	41.6	
10 Carbon Disulfide	76	3.917	3.925 (0.479)		884407		45.3873	45.4	
11 Freon-113	151	3.939	3.946 (0.482)		186956		52.9169	52.9	
12 Iodomethane	142	4.089	4.103 (0.500)		300901		52.8662	52.9	
13 Acrolein	56	4.410	4.418 (0.539)		274668		202.506	202	
14 Methylene Chloride	84	4.811	4.818 (0.588)		336743		43.8262	43.8	
15 Acetone	43	4.911	4.911 (0.600)		139590		40.5448	40.5	
16 Isobutyl Alcohol	43	8.379	8.379 (1.024)		225068		868.779	869	
17 trans-1,2-Dichloroethene	96	5.083	5.090 (0.621)		288628		40.3942	40.4	
18 Allyl Chloride	41	4.625	4.633 (0.566)		503733		54.3207	54.3	
19 Methyl tert-butyl ether	73	5.290	5.297 (0.647)		1774911		100.724	101	
20 Acetonitrile	39	5.705	5.705 (0.698)		115460		459.906	460	
21 Di-isopropyl ether	45	5.941	5.941 (0.726)		1018550		48.8611	48.9	
22 Chloroprene	53	6.069	6.070 (0.742)		496208		55.2987	55.3	
23 Propionitrile	54	8.107	8.106 (0.991)		517754		465.856	466	
24 Methacrylonitrile	41	8.129	8.129 (0.994)		2083149		487.588	488	

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0510.D
Report Date: 23-Apr-2013 11:03

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.105	6.113 (0.746)		596528	44.2340	44.2	
26 Acrylonitrile	52	6.198	6.198 (0.758)		569970	222.850	223	
27 Ethyl tertiary-butyl ether	59	6.498	6.499 (0.795)		944869	52.7872	52.8	
28 Vinyl Acetate	43	6.520	6.520 (0.738)		846968	59.9877	60.0	
29 cis-1,2-Dichloroethene	96	6.906	6.913 (0.844)		314683	41.3139	41.3	
M 30 1,2-Dichloroethylene (total)	96				603311	81.7081	81.7(R)	
31 Methyl Methacrylate	41	9.694	9.702 (1.097)		313726	54.5730	54.6	
32 2,2-Dichloropropane	77	7.056	7.064 (0.863)		514110	48.0713	48.1	
33 Bromochloromethane	128	7.185	7.185 (0.878)		139371	44.8866	44.9	
34 Chloroform	83	7.299	7.307 (0.892)		610690	44.3311	44.3	
35 Carbon Tetrachloride	117	7.464	7.464 (0.845)		447498	56.1250	56.1	
36 Tetrahydrofuran	42	7.506	7.507 (0.918)		103433	41.9810	42.0	
\$ 37 Dibromofluoromethane	113	7.542	7.550 (0.922)		340127	44.7234	44.7	
38 1,1,1-Trichloroethane	97	7.564	7.564 (0.925)		559036	47.3717	47.4	
39 1,1-Dichloropropene	75	11.003	11.003 (1.245)		533507	54.6881	54.7	
40 2-Butanone	43	7.721	7.721 (0.944)		175693	44.2858	44.3	
41 Benzene	78	8.050	8.057 (0.911)		1151010	45.2180	45.2	
* 42 Pentafluorobenzene	168	8.179	8.179 (1.000)		634635	50.0000		
43 Cyclohexane	56	7.170	7.178 (0.877)		470069	41.4277	41.4	
44 Ethyl Methacrylate	69	11.189	11.189 (1.266)		413228	56.1589	56.2	
\$ 45 1,2-Dichloroethane-D4	65	8.229	8.236 (1.006)		446222	44.9332	44.9	
46 Tertiary-amyl methyl ether	73	8.214	8.222 (1.004)		808357	52.4804	52.5	
47 1,2-Dichloroethane	62	8.314	8.321 (0.941)		500487	49.6281	49.6	
48 Trichloroethene	95	8.786	8.794 (0.994)		309069	45.2990	45.3	
* 49 1,4-Difluorobenzene	114	8.836	8.844 (1.000)		1079956	50.0000		
50 Dibromomethane	93	9.301	9.302 (1.053)		213608	47.0952	47.1	
51 1,2-Dichloropropane	63	9.423	9.423 (1.066)		305159	45.4725	45.5	
52 Bromodichloromethane	83	9.501	9.502 (1.075)		481235	50.6626	50.7	
53 cis-1,3-dichloropropene	75	10.245	10.245 (1.159)		511425	45.8226	45.8	
54 1,4-Dioxane	88	9.744	9.745 (1.103)		92697	922.485	922	
\$ 55 Toluene-D8	98	10.452	10.453 (1.183)		1134501	47.9226	47.9	
56 2-Chloroethylvinylether	63	10.181	10.181 (1.152)		145933	55.4252	55.4	
57 Toluene	92	10.510	10.517 (1.189)		722968	45.7310	45.7	
58 4-methyl-2-pentanone	43	10.960	10.960 (1.240)		325384	50.5335	50.5	
59 Tetrachloroethene	164	10.960	10.960 (0.888)		252630	52.0500	52.0	
60 trans-1,3-Dichloropropene	75	11.003	11.003 (1.245)		533507	54.6881	54.7	
61 1,1,2-Trichloroethane	83	11.196	11.196 (1.267)		247018	47.5227	47.5	
62 Dibromochloromethane	129	11.410	11.411 (0.925)		357056	57.6910	57.7	
63 1,3-Dichloropropane	76	11.525	11.525 (0.934)		537157	48.1359	48.1	
64 1,2-Dibromoethane	107	11.696	11.697 (1.324)		325868	49.0875	49.1	
65 2-Hexanone	43	11.975	11.976 (0.970)		245519	52.2598	52.2	
* 66 Chlorobenzene-D5	117	12.340	12.340 (1.000)		1030442	50.0000		
67 Chlorobenzene	112	12.361	12.362 (1.002)		844714	53.1485	53.1	
152 1-Chlorohexane	91	12.326	12.333 (0.999)		472145	47.2082	47.2	
68 Ethylbenzene	106	12.390	12.398 (1.004)		445105	49.2985	49.3	
69 1,1,1,2-Tetrachloroethane	131	12.440	12.448 (1.008)		323422	56.1348	56.1	
M 70 Xylenes (total)	106				1631023	155.468	155	
71 m+p-Xylenes	106	12.583	12.583 (1.020)		1090229	102.100	102	
72 o-Xylene	106	13.162	13.163 (1.067)		540794	53.3677	53.4	
73 Styrene	104	13.234	13.234 (1.072)		905783	50.6534	50.6	
74 Bromoform	173	13.269	13.270 (1.075)		236301	55.8364	55.8	
75 Isopropylbenzene	105	13.591	13.592 (0.866)		1443915	51.8124	51.8	
\$ 76 P-Bromofluorobenzene	95	13.999	13.999 (1.584)		503361	47.3182	47.3	
77 cis-1,4-Dichloro-2-Butene	53	14.092	14.099 (0.898)		152240	54.4143	54.4	

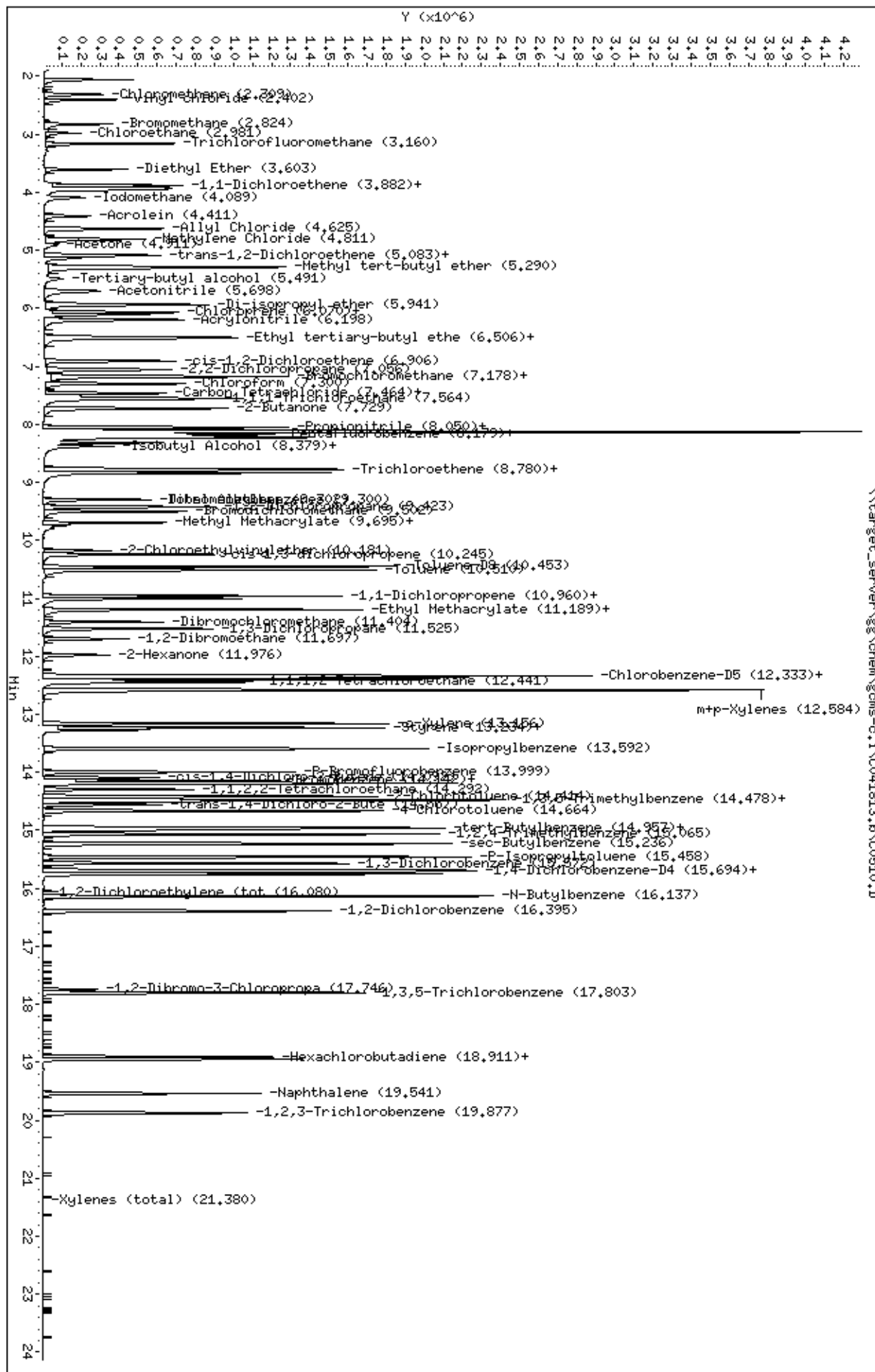
Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN		FINAL
							(ug/l)		(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
78 trans-1,4-Dichloro-2-Butene	53	14.556	14.557	(0.928)	148022	56.2079	56.2		
79 Bromobenzene	156	14.149	14.149	(0.902)	363588	46.8722	46.9		
80 N-Propylbenzene	91	14.185	14.192	(0.904)	1791422	48.7174	48.7		
81 1,1,2,2-Tetrachloroethane	83	14.292	14.292	(0.911)	417590	42.7415	42.7		
82 1,3,5-Trimethylbenzene	105	14.478	14.478	(0.923)	1251786	46.6574	46.6		
83 2-Chlorotoluene	91	14.413	14.421	(0.919)	1097454	49.2711	49.3		
84 1,2,3-Trichloropropane	75	14.492	14.500	(0.924)	355397	44.5776	44.6		
85 4-Chlorotoluene	91	14.664	14.664	(0.935)	1153284	50.5286	50.5		
86 tert-Butylbenzene	119	14.957	14.957	(0.954)	1308920	54.5846	54.6		
87 Pentachloroethane	117	14.985	14.993	(0.955)	294400	57.0354	57.0		
88 1,2,4-Trimethylbenzene	105	15.064	15.072	(0.960)	1285201	48.2794	48.3		
89 P-Isopropyltoluene	119	15.457	15.465	(0.985)	1428175	54.7861	54.8		
90 1,3-Dichlorobenzene	146	15.572	15.572	(0.993)	708644	52.7164	52.7		
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	583465	50.0000			
92 1,4-Dichlorobenzene	146	15.715	15.715	(1.002)	718256	47.1924	47.2		
93 N-Butylbenzene	91	16.137	16.143	(1.029)	1475991	45.3938	45.4		
94 sec-Butylbenzene	105	15.236	15.236	(0.971)	1688468	51.5018	51.5		
95 1,2-Dichlorobenzene	146	16.394	16.393	(1.045)	663843	52.6432	52.6		
96 1,2-Dibromo-3-Chloropropane	75	17.745	17.753	(1.131)	91512	51.8498	51.8		
97 1,3,5-Trichlorobenzene	180	17.803	17.803	(1.135)	587530	56.7719	56.8		
98 Hexachlorobutadiene	225	18.911	18.911	(1.206)	273677	57.3656	57.4		
99 1,2,4-Trichlorobenzene	180	18.947	18.947	(1.208)	465165	50.6201	50.6		
100 1,2,3-Trimethylbenzene	105	15.751	15.758	(1.004)	1336973	54.0786	54.1		
101 Naphthalene	128	19.540	19.541	(1.246)	992935	51.2264	51.2		
102 1,2,3-Trichlorobenzene	180	19.876	19.877	(1.267)	384378	48.0815	48.1		
103 Methyl Acetate	43	5.133	5.140	(0.628)	279069	43.6337	43.6		
104 Methylcyclohexane	83	8.772	8.772	(1.073)	507381	50.0957	50.1		
M 153 Total Alkylbenzenes	100				10229963	349.921	350		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gs\chem\goms-c.i\CD041813.b\CD0510.D
 Date : 18-APR-2013 09:42
 Client ID: MG122853-LCS
 Sample Info: MG122853-1,SG2375
 Purge Volume: 5.0
 Column phase: RTX-VHS

Instrument: goms-c.i
 Operator: REC
 Column diameter: 0.18



LCS Recovery Report

Client:
Lab ID: WG122901-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0536.D

Sample Date:
Received Date:
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	157.	50.0	78.4	ug/L	29-164
Chloromethane	96.8	50.0	48.4	ug/L	59-123
Vinyl Chloride	102.	50.0	51.0	ug/L	64-131
Bromomethane	98.8	50.0	49.4	ug/L	57-135
Chloroethane	123.	50.0	61.6	ug/L	53-157
Trichlorofluoromethane	88.0	50.0	44.0	ug/L	70-149
1,1-Dichloroethene	* 79.6	50.0	39.8	ug/L	88-127
Freon-113	98.8	50.0	49.4	ug/L	73-126
Acetone	74.8	50.0	37.4	ug/L	62-172
Carbon Disulfide	84.0	50.0	42.0	ug/L	71-129
Methyl Acetate	80.6	50.0	40.3	ug/L	70-132
Methylene Chloride	82.2	50.0	41.1	ug/L	72-129
trans-1,2-Dichloroethene	* 75.6	50.0	37.8	ug/L	78-125
Methyl tert-butyl Ether	92.8	100.	92.8	ug/L	81-125
1,1-Dichloroethane	81.2	50.0	40.6	ug/L	76-130
cis-1,2-Dichloroethene	* 78.2	50.0	39.1	ug/L	85-123
2-Butanone	82.2	50.0	41.1	ug/L	71-132
Chloroform	84.4	50.0	42.2	ug/L	78-128
1,1,1-Trichloroethane	90.0	50.0	45.0	ug/L	77-129
Cyclohexane	79.0	50.0	39.5	ug/L	71-133
Carbon Tetrachloride	110.	50.0	55.0	ug/L	87-126
Benzene	88.2	50.0	44.1	ug/L	86-116
1,2-Dichloroethane	97.2	50.0	48.6	ug/L	81-125
Trichloroethene	88.4	50.0	44.2	ug/L	79-121
Methylcyclohexane	94.6	50.0	47.3	ug/L	73-125
1,2-Dichloropropane	89.0	50.0	44.5	ug/L	84-118
Bromodichloromethane	100.	50.0	50.2	ug/L	85-122
cis-1,3-Dichloropropene	87.8	50.0	43.9	ug/L	83-119
4-Methyl-2-Pentanone	102.	50.0	51.2	ug/L	83-122
Toluene	91.8	50.0	45.9	ug/L	84-118
trans-1,3-Dichloropropene	105.	50.0	52.5	ug/L	85-135
1,1,2-Trichloroethane	91.2	50.0	45.6	ug/L	84-115
Tetrachloroethene	102.	50.0	51.0	ug/L	47-155
2-Hexanone	104.	50.0	51.8	ug/L	80-124
Dibromochloromethane	111.	50.0	55.4	ug/L	85-119

LCS Recovery Report

Client:
Lab ID: WG122901-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0536.D

Sample Date:
Received Date:
Extract Date: 19-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122901

Analysis Date: 19-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	96.0	50.0	48.0	ug/L	84-116
Chlorobenzene	103.	50.0	51.4	ug/L	89-113
Ethylbenzene	94.6	50.0	47.3	ug/L	88-113
M+P-Xylenes	99.8	100.	99.8	ug/L	88-116
o-Xylene	103.	50.0	51.4	ug/L	90-116
Styrene	98.2	50.0	49.1	ug/L	88-117
Bromoform	108.	50.0	54.1	ug/L	86-117
Isopropylbenzene	102.	50.0	50.9	ug/L	96-136
1,1,2,2-Tetrachloroethane	81.6	50.0	40.8	ug/L	79-121
1,3-Dichlorobenzene	103.	50.0	51.3	ug/L	86-110
1,4-Dichlorobenzene	92.4	50.0	46.2	ug/L	86-111
1,2-Dichlorobenzene	103.	50.0	51.4	ug/L	86-112
1,2-Dibromo-3-Chloropropane	100.	50.0	50.1	ug/L	67-124
1,2,4-Trichlorobenzene	99.0	50.0	49.5	ug/L	76-126
bromochloromethane	86.0	50.0	43.0	ug/L	85-117
1,4-Dioxane	86.1	1000	861.	ug/L	10-149
1,2,3-trichlorobenzene	93.6	50.0	46.8	ug/L	70-122
1,3,5-Trimethylbenzene	91.6	50.0	45.8	ug/L	80-123
1,2,4-Trimethylbenzene	94.8	50.0	47.4	ug/L	83-118
4-Chlorotoluene	98.4	50.0	49.2	ug/L	81-122
n-Butylbenzene	89.8	50.0	44.9	ug/L	84-121
n-Propylbenzene	95.0	50.0	47.5	ug/L	83-121
Naphthalene	102.	50.0	51.0	ug/L	62-126
p-Isopropyltoluene	108.	50.0	53.9	ug/L	88-121
sec-Butylbenzene	100.	50.0	50.2	ug/L	82-122
tert-Butylbenzene	105.	50.0	52.4	ug/L	84-121
1,2-Dichloroethane-d4	89.5				67-135
Toluene-d8	98.5				65-128
P-Bromofluorobenzene	96.8				56-133
Dibromofluoromethane	86.0				68-128

Data File: \\target_server\gg\chem\gcms-c.i\C041913.b\C0536.D
Report Date: 23-Apr-2013 11:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041913.b\C0536.D
Lab Smp Id: WG122901-1 Client Smp ID: WG122901-LCS
Inj Date : 19-APR-2013 10:34 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122901-1,SG2375
Misc Info : WG122901,WG122628-4,SG2375-11
Comment : SW846 5030
Method : \\target_server\GG\chem\gcms-c.i\C041913.b\C826A67.m
Meth Date : 23-Apr-2013 11:05 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.057	2.057	(0.251)	409960		78.3726	78.4(R)	
2 Chloromethane	50	2.307	2.309	(0.282)	443507		48.4316	48.4	
3 Vinyl chloride	62	2.408	2.409	(0.294)	346596		51.0032	51.0	
4 Bromomethane	94	2.822	2.824	(0.345)	232117		49.3535	49.4	
5 Chloroethane	64	2.980	2.988	(0.364)	150721		61.6560	61.6	
6 Trichlorofluoromethane	101	3.166	3.167	(0.387)	562389		44.0267	44.0	
7 Diethyl Ether	59	3.609	3.610	(0.441)	239149		44.5007	44.5	
8 Tertiary-butyl alcohol	59	5.496	5.498	(0.672)	168599		249.972	250	
9 1,1-Dichloroethene	96	3.881	3.882	(0.474)	256487		39.7931	39.8	
10 Carbon Disulfide	76	3.916	3.925	(0.479)	843873		42.0289	42.0	
11 Freon-113	151	3.945	3.946	(0.482)	178902		49.3540	49.4	
12 Iodomethane	142	4.095	4.103	(0.500)	294644		49.8047	49.8	
13 Acrolein	56	4.417	4.418	(0.540)	254158		182.636	183	
14 Methylene Chloride	84	4.810	4.818	(0.588)	325682		41.1018	41.1	
15 Acetone	43	4.917	4.911	(0.601)	134177		37.3856	37.4	
16 Isobutyl Alcohol	43	8.385	8.379	(1.024)	232550		874.704	875	
17 trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	277351		37.8323	37.8	
18 Allyl Chloride	41	4.631	4.633	(0.566)	460777		48.4293	48.4	
19 Methyl tert-butyl ether	73	5.296	5.297	(0.647)	1678686		92.8496	92.8	
20 Acetonitrile	39	5.704	5.705	(0.697)	107554		417.558	418	
21 Di-isopropyl ether	45	5.940	5.941	(0.726)	952908		44.5538	44.6	
22 Chloroprene	53	6.068	6.070	(0.741)	470182		51.0705	51.1	
23 Propionitrile	54	8.106	8.106	(0.990)	494227		433.418	433	
24 Methacrylonitrile	41	8.135	8.129	(0.994)	1996648		447.042	447	

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.111	6.113 (0.747)	561358	40.5712	40.6	
26 Acrylonitrile	52	6.204	6.198 (0.758)	542126	206.592	206	
27 Ethyl tertiary-butyl ether	59	6.505	6.499 (0.795)	883410	48.1029	48.1	
28 Vinyl Acetate	43	6.526	6.520 (0.738)	775811	56.2993	56.3	
29 cis-1,2-Dichloroethene	96	6.912	6.913 (0.845)	305643	39.1102	39.1	
M 30 1,2-Dichloroethylene (total)	96			582994	76.9424	76.9(R)	
31 Methyl Methacrylate	41	9.701	9.702 (1.097)	302139	53.8500	53.8	
32 2,2-Dichloropropane	77	7.062	7.064 (0.863)	489212	44.5840	44.6	
33 Bromochloromethane	128	7.191	7.185 (0.879)	136926	42.9816	43.0	
34 Chloroform	83	7.305	7.307 (0.893)	595825	42.1560	42.2	
35 Carbon Tetrachloride	117	7.470	7.464 (0.845)	427663	54.9564	55.0	
36 Tetrahydrofuran	42	7.513	7.507 (0.918)	99970	39.5472	39.5	
\$ 37 Dibromofluoromethane	113	7.549	7.550 (0.922)	335537	43.0017	43.0	
38 1,1,1-Trichloroethane	97	7.563	7.564 (0.924)	544415	44.9636	45.0	
39 1,1-Dichloropropene	75	11.009	11.003 (1.245)	500028	52.5168	52.5	
40 2-Butanone	43	7.727	7.721 (0.944)	167416	41.1300	41.1	
41 Benzene	78	8.056	8.057 (0.911)	1095900	44.1118	44.1	
* 42 Pentafluorobenzene	168	8.185	8.179 (1.000)	651136	50.0000		
43 Cyclohexane	56	7.177	7.178 (0.877)	459731	39.4899	39.5	
44 Ethyl Methacrylate	69	11.195	11.189 (1.266)	395744	55.1054	55.1	
\$ 45 1,2-Dichloroethane-D4	65	8.235	8.236 (1.006)	456008	44.7549	44.8	
46 Tertiary-amyl methyl ether	73	8.221	8.222 (1.004)	768789	48.6467	48.6	
47 1,2-Dichloroethane	62	8.321	8.321 (0.941)	477976	48.5615	48.6	
48 Trichloroethene	95	8.793	8.794 (0.994)	294051	44.1577	44.2	
* 49 1,4-Difluorobenzene	114	8.843	8.844 (1.000)	1054034	50.0000		
50 Dibromomethane	93	9.300	9.302 (1.052)	201437	45.5040	45.5	
51 1,2-Dichloropropane	63	9.422	9.423 (1.065)	291383	44.4876	44.5	
52 Bromodichloromethane	83	9.508	9.502 (1.075)	465249	50.1843	50.2	
53 cis-1,3-dichloropropene	75	10.244	10.245 (1.158)	477854	43.8676	43.9	
54 1,4-Dioxane	88	9.751	9.745 (1.103)	84452	861.103	861	
\$ 55 Toluene-D8	98	10.459	10.453 (1.183)	1137641	49.2371	49.2	
56 2-Chloroethylvinylether	63	10.180	10.181 (1.151)	127060	49.4441	49.4	
57 Toluene	92	10.516	10.517 (1.189)	708936	45.9462	45.9	
58 4-methyl-2-pentanone	43	10.966	10.960 (1.240)	321861	51.2157	51.2	
59 Tetrachloroethene	164	10.959	10.960 (0.888)	245726	50.9710	51.0	
60 trans-1,3-Dichloropropene	75	11.009	11.003 (1.245)	500028	52.5168	52.5	
61 1,1,2-Trichloroethane	83	11.195	11.196 (1.266)	231429	45.6186	45.6	
62 Dibromochloromethane	129	11.410	11.411 (0.925)	340283	55.3539	55.4	
63 1,3-Dichloropropane	76	11.524	11.525 (0.934)	505228	45.5817	45.6	
64 1,2-Dibromoethane	107	11.703	11.697 (1.323)	311336	48.0518	48.0	
65 2-Hexanone	43	11.982	11.976 (0.971)	241642	51.7834	51.8	
* 66 Chlorobenzene-D5	117	12.339	12.340 (1.000)	1023500	50.0000		
67 Chlorobenzene	112	12.361	12.362 (1.002)	811985	51.4357	51.4	
152 1-Chlorohexane	91	12.332	12.333 (0.999)	443621	44.6570	44.6	
68 Ethylbenzene	106	12.396	12.398 (1.005)	423979	47.2772	47.3	
69 1,1,1,2-Tetrachloroethane	131	12.446	12.448 (1.009)	309397	54.0648	54.1	
M 70 Xylenes (total)	106			1575990	151.216	151	
71 m+p-Xylenes	106	12.589	12.583 (1.020)	1058297	99.7820	99.8	
72 o-Xylene	106	13.161	13.163 (1.067)	517693	51.4345	51.4	
73 Styrene	104	13.233	13.234 (1.072)	872695	49.1340	49.1	
74 Bromoform	173	13.269	13.270 (1.075)	227279	54.0688	54.1	
75 Isopropylbenzene	105	13.590	13.592 (0.866)	1397828	50.8614	50.9	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999 (1.583)	502396	48.3890	48.4	
77 cis-1,4-Dichloro-2-Butene	53	14.098	14.099 (0.898)	141483	51.2781	51.3	

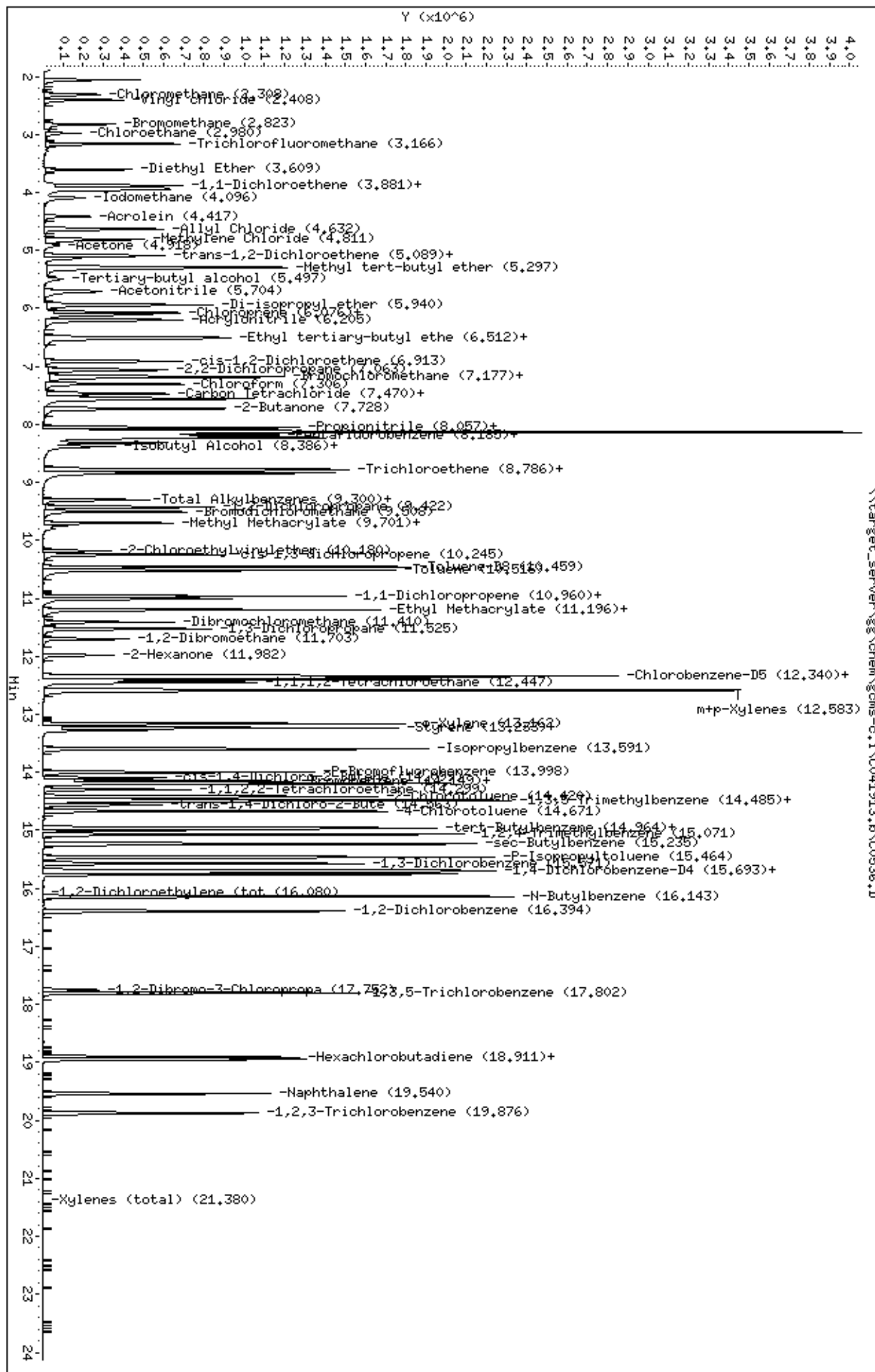
Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN		FINAL
							(ug/l)		(ug/l)
=====	====	====	=====	=====	=====	=====	=====	=====	
78 trans-1,4-Dichloro-2-Butene	53	14.563	14.557	(0.928)	139289	53.6328	53.6		
79 Bromobenzene	156	14.148	14.149	(0.902)	350147	45.7718	45.8		
80 N-Propylbenzene	91	14.191	14.192	(0.904)	1730214	47.5077	47.5		
81 1,1,2,2-Tetrachloroethane	83	14.298	14.292	(0.911)	393601	40.8506	40.8		
82 1,3,5-Trimethylbenzene	105	14.477	14.478	(0.923)	1211581	45.7916	45.8		
83 2-Chlorotoluene	91	14.420	14.421	(0.919)	1032751	47.0158	47.0		
84 1,2,3-Trichloropropane	75	14.498	14.500	(0.924)	339517	43.1824	43.2		
85 4-Chlorotoluene	91	14.670	14.664	(0.935)	1108544	49.2489	49.2		
86 tert-Butylbenzene	119	14.963	14.957	(0.954)	1240166	52.4421	52.4		
87 Pentachloroethane	117	14.992	14.993	(0.955)	273357	53.7007	53.7		
88 1,2,4-Trimethylbenzene	105	15.070	15.072	(0.960)	1243303	47.3599	47.4		
89 P-Isopropyltoluene	119	15.464	15.465	(0.985)	1386092	53.9168	53.9		
90 1,3-Dichlorobenzene	146	15.571	15.572	(0.992)	680639	51.3425	51.3		
* 91 1,4-Dichlorobenzene-D4	152	15.693	15.694	(1.000)	575403	50.0000			
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.001)	692820	46.1590	46.2		
93 N-Butylbenzene	91	16.143	16.143	(1.029)	1442139	44.8919	44.9		
94 sec-Butylbenzene	105	15.235	15.236	(0.971)	1624710	50.2513	50.2		
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	639278	51.4055	51.4		
96 1,2-Dibromo-3-Chloropropane	75	17.752	17.753	(1.131)	87165	50.0788	50.1		
97 1,3,5-Trichlorobenzene	180	17.809	17.803	(1.135)	556010	54.4789	54.5		
98 Hexachlorobutadiene	225	18.910	18.911	(1.205)	274461	58.3680	58.4		
99 1,2,4-Trichlorobenzene	180	18.946	18.947	(1.207)	448737	49.5165	49.5		
100 1,2,3-Trimethylbenzene	105	15.757	15.758	(1.004)	1263840	51.8368	51.8		
101 Naphthalene	128	19.539	19.541	(1.245)	974468	50.9780	51.0		
102 1,2,3-Trichlorobenzene	180	19.875	19.877	(1.267)	369190	46.8287	46.8		
103 Methyl Acetate	43	5.139	5.140	(0.628)	264191	40.2607	40.3		
104 Methylcyclohexane	83	8.771	8.772	(1.072)	491587	47.3063	47.3		
M 153 Total Alkylbenzenes	100				9878205	342.161	342		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gs\chem\goms-c.i\CD041913.b\CD0536.D
 Date : 19-APR-2013 10:34
 Client ID: MG122901-LCS
 Sample Info: MG122901-1,SG2375
 Purge Volume: 5.0
 Column phase: RTX-VHS

Instrument: goms-c.i
 Operator: REC
 Column diameter: 0.18



LCS Recovery Report

Client:
Lab ID: WG123007-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0559.D

Sample Date:
Received Date:
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	163.	50.0	81.5	ug/L	29-164
Chloromethane	92.6	50.0	46.3	ug/L	59-123
Vinyl Chloride	101.	50.0	50.6	ug/L	64-131
Bromomethane	104.	50.0	51.8	ug/L	57-135
Chloroethane	129.	50.0	64.3	ug/L	53-157
Trichlorofluoromethane	89.2	50.0	44.6	ug/L	70-149
1,1-Dichloroethene	* 78.6	50.0	39.3	ug/L	88-127
Freon-113	102.	50.0	51.0	ug/L	73-126
Acetone	79.4	50.0	39.7	ug/L	62-172
Carbon Disulfide	84.6	50.0	42.3	ug/L	71-129
Methyl Acetate	79.4	50.0	39.7	ug/L	70-132
Methylene Chloride	81.2	50.0	40.6	ug/L	72-129
trans-1,2-Dichloroethene	* 76.4	50.0	38.2	ug/L	78-125
Methyl tert-butyl Ether	98.2	100.	98.2	ug/L	81-125
1,1-Dichloroethane	83.2	50.0	41.6	ug/L	76-130
cis-1,2-Dichloroethene	* 81.2	50.0	40.6	ug/L	85-123
2-Butanone	84.2	50.0	42.1	ug/L	71-132
Chloroform	85.0	50.0	42.5	ug/L	78-128
1,1,1-Trichloroethane	90.0	50.0	45.0	ug/L	77-129
Cyclohexane	78.0	50.0	39.0	ug/L	71-133
Carbon Tetrachloride	113.	50.0	56.6	ug/L	87-126
Benzene	87.6	50.0	43.8	ug/L	86-116
1,2-Dichloroethane	101.	50.0	50.4	ug/L	81-125
Trichloroethene	88.0	50.0	44.0	ug/L	79-121
Methylcyclohexane	92.8	50.0	46.4	ug/L	73-125
1,2-Dichloropropane	85.8	50.0	42.9	ug/L	84-118
Bromodichloromethane	101.	50.0	50.5	ug/L	85-122
cis-1,3-Dichloropropene	86.2	50.0	43.1	ug/L	83-119
4-Methyl-2-Pentanone	99.4	50.0	49.7	ug/L	83-122
Toluene	88.6	50.0	44.3	ug/L	84-118
trans-1,3-Dichloropropene	109.	50.0	54.3	ug/L	85-135
1,1,2-Trichloroethane	90.6	50.0	45.3	ug/L	84-115
Tetrachloroethene	104.	50.0	52.0	ug/L	47-155
2-Hexanone	100.	50.0	50.2	ug/L	80-124
Dibromochloromethane	112.	50.0	55.9	ug/L	85-119

LCS Recovery Report

Client:
Lab ID: WG123007-1
Client ID: LCS
Project:
SDG: SG2375
LCS File ID: C0559.D

Sample Date:
Received Date:
Extract Date: 22-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG123007

Analysis Date: 22-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 23-APR-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	98.2	50.0	49.1	ug/L	84-116
Chlorobenzene	102.	50.0	51.1	ug/L	89-113
Ethylbenzene	94.2	50.0	47.1	ug/L	88-113
M+P-Xylenes	99.1	100.	99.1	ug/L	88-116
o-Xylene	104.	50.0	52.0	ug/L	90-116
Styrene	98.0	50.0	49.0	ug/L	88-117
Bromoform	114.	50.0	57.1	ug/L	86-117
Isopropylbenzene	99.2	50.0	49.6	ug/L	96-136
1,1,2,2-Tetrachloroethane	81.8	50.0	40.9	ug/L	79-121
1,3-Dichlorobenzene	104.	50.0	52.0	ug/L	86-110
1,4-Dichlorobenzene	93.2	50.0	46.6	ug/L	86-111
1,2-Dichlorobenzene	105.	50.0	52.4	ug/L	86-112
1,2-Dibromo-3-Chloropropane	100.	50.0	50.0	ug/L	67-124
1,2,4-Trichlorobenzene	101.	50.0	50.3	ug/L	76-126
bromochloromethane	89.6	50.0	44.8	ug/L	85-117
1,4-Dioxane	82.5	1000	825.	ug/L	10-149
1,2,3-trichlorobenzene	94.6	50.0	47.3	ug/L	70-122
1,3,5-Trimethylbenzene	90.2	50.0	45.1	ug/L	80-123
1,2,4-Trimethylbenzene	93.4	50.0	46.7	ug/L	83-118
4-Chlorotoluene	96.2	50.0	48.1	ug/L	81-122
n-Butylbenzene	87.0	50.0	43.5	ug/L	84-121
n-Propylbenzene	90.6	50.0	45.3	ug/L	83-121
Naphthalene	101.	50.0	50.6	ug/L	62-126
p-Isopropyltoluene	107.	50.0	53.5	ug/L	88-121
sec-Butylbenzene	98.8	50.0	49.4	ug/L	82-122
tert-Butylbenzene	105.	50.0	52.7	ug/L	84-121
1,2-Dichloroethane-d4	88.4				67-135
Toluene-d8	97.0				65-128
P-Bromofluorobenzene	96.2				56-133
Dibromofluoromethane	90.2				68-128

Data File: \\target_server\gg\chem\gcms-c.i\C042213.b\C0559.D
 Report Date: 23-Apr-2013 11:17

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C042213.b\C0559.D
 Lab Smp Id: WG123007-1 Client Smp ID: WG123007-LCS
 Inj Date : 22-APR-2013 10:40 MS Autotune Date: 24-JAN-2013 11:20
 Operator : REC Inst ID: gcms-c.i
 Smp Info : WG123007-1,SG2375
 Misc Info : WG123007,WG122628-4,SG2375-12
 Comment : SW846 5030
 Method : \\target_server\GG\chem\gcms-c.i\C042213.b\C826A67.m
 Meth Date : 23-Apr-2013 11:14 gcms-c.i Quant Type: ISTD
 Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
 Als bottle: 4 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
1 Dichlorodifluoromethane	85	2.058	2.057 (0.252)		404554		81.5409	81.5	
2 Chloromethane	50	2.308	2.309 (0.282)		403102		46.3012	46.3	
3 Vinyl chloride	62	2.401	2.409 (0.294)		326905		50.6372	50.6	
4 Bromomethane	94	2.823	2.824 (0.345)		231159		51.7552	51.8	
5 Chloroethane	64	2.980	2.988 (0.364)		148770		64.3112	64.3	
6 Trichlorofluoromethane	101	3.159	3.167 (0.386)		540918		44.6430	44.6	
7 Diethyl Ether	59	3.602	3.610 (0.440)		225209		44.1282	44.1	
8 Tertiary-butyl alcohol	59	5.497	5.498 (0.672)		165402		258.232	258	
9 1,1-Dichloroethene	96	3.881	3.882 (0.475)		240437		39.2804	39.3(R)	
10 Carbon Disulfide	76	3.917	3.925 (0.479)		806333		42.3040	42.3	
11 Freon-113	151	3.945	3.946 (0.482)		175676		51.0331	51.0	
12 Iodomethane	142	4.088	4.103 (0.500)		296538		53.6448	53.6	
13 Acrolein	56	4.410	4.418 (0.539)		239056		180.890	181	
14 Methylene Chloride	84	4.810	4.818 (0.588)		305887		40.6097	40.6	
15 Acetone	43	4.910	4.911 (0.600)		133654		39.6782	39.7	
16 Isobutyl Alcohol	43	8.378	8.379 (1.024)		217968		863.699	864	
17 trans-1,2-Dichloroethene	96	5.082	5.090 (0.621)		266045		38.2138	38.2(R)	
18 Allyl Chloride	41	4.624	4.633 (0.565)		420037		46.4876	46.5	
19 Methyl tert-butyl ether	73	5.289	5.297 (0.647)		1686836		98.2462	98.2	
20 Acetonitrile	39	5.697	5.705 (0.697)		97083		396.886	397	
21 Di-isopropyl ether	45	5.940	5.941 (0.726)		904643		44.5393	44.5	
22 Chloroprene	53	6.069	6.070 (0.742)		434013		49.6408	49.6	
23 Propionitrile	54	8.107	8.106 (0.991)		467407		431.627	432	
24 Methacrylonitrile	41	8.128	8.129 (0.994)		1897903		447.570	448	

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.105	6.113 (0.746)	546295	41.5755	41.6	
26 Acrylonitrile	52	6.197	6.198 (0.758)	503927	202.215	202	
27 Ethyl tertiary-butyl ether	59	6.498	6.499 (0.795)	861752	49.4111	49.4	
28 Vinyl Acetate	43	6.519	6.520 (0.738)	771215	57.3221	57.3	
29 cis-1,2-Dichloroethene	96	6.905	6.913 (0.844)	300988	40.5561	40.6(R)	
M 30 1,2-Dichloroethylene (total)	96			567033	78.7699	78.8(R)	
31 Methyl Methacrylate	41	9.694	9.702 (1.097)	285340	52.0885	52.1	
32 2,2-Dichloropropane	77	7.055	7.064 (0.863)	499387	47.9239	47.9	
33 Bromochloromethane	128	7.184	7.185 (0.878)	135544	44.8032	44.8	
34 Chloroform	83	7.299	7.307 (0.892)	570143	42.4773	42.5	
35 Carbon Tetrachloride	117	7.463	7.464 (0.845)	430188	56.6206	56.6	
36 Tetrahydrofuran	42	7.506	7.507 (0.918)	92433	38.5040	38.5	
\$ 37 Dibromofluoromethane	113	7.542	7.550 (0.922)	334405	45.1285	45.1	
38 1,1,1-Trichloroethane	97	7.556	7.564 (0.924)	517602	45.0153	45.0	
39 1,1-Dichloropropene	75	11.002	11.003 (1.245)	505080	54.3331	54.3	
40 2-Butanone	43	7.720	7.721 (0.944)	162615	42.0683	42.1	
41 Benzene	78	8.049	8.057 (0.911)	1063260	43.8352	43.8	
* 42 Pentafluorobenzene	168	8.178	8.179 (1.000)	618357	50.0000		
43 Cyclohexane	56	7.170	7.178 (0.877)	431814	39.0581	39.0	
44 Ethyl Methacrylate	69	11.188	11.189 (1.266)	369501	52.6982	52.7	
\$ 45 1,2-Dichloroethane-D4	65	8.228	8.236 (1.006)	427534	44.1847	44.2	
46 Tertiary-amyl methyl ether	73	8.214	8.222 (1.004)	730696	48.6873	48.7	
47 1,2-Dichloroethane	62	8.314	8.321 (0.941)	484870	50.4558	50.4	
48 Trichloroethene	95	8.786	8.794 (0.994)	286253	44.0285	44.0	
* 49 1,4-Difluorobenzene	114	8.836	8.844 (1.000)	1029093	50.0000		
50 Dibromomethane	93	9.301	9.302 (1.053)	204814	47.3882	47.4	
51 1,2-Dichloropropane	63	9.422	9.423 (1.066)	274465	42.9202	42.9	
52 Bromodichloromethane	83	9.501	9.502 (1.075)	456906	50.4788	50.5	
53 cis-1,3-dichloropropene	75	10.237	10.245 (1.159)	458615	43.1218	43.1	
54 1,4-Dioxane	88	9.737	9.745 (1.102)	79010	825.139	825	
\$ 55 Toluene-D8	98	10.452	10.453 (1.183)	1094152	48.5026	48.5	
56 2-Chloroethylvinylether	63	10.173	10.181 (1.151)	123363	49.1689	49.2	
57 Toluene	92	10.509	10.517 (1.189)	667119	44.2839	44.3	
58 4-methyl-2-pentanone	43	10.959	10.960 (1.240)	305150	49.7334	49.7	
59 Tetrachloroethene	164	10.959	10.960 (0.889)	246441	52.0255	52.0	
60 trans-1,3-Dichloropropene	75	11.002	11.003 (1.245)	505080	54.3331	54.3	
61 1,1,2-Trichloroethane	83	11.188	11.196 (1.266)	224331	45.2912	45.3	
62 Dibromochloromethane	129	11.403	11.411 (0.925)	337748	55.9155	55.9	
63 1,3-Dichloropropane	76	11.524	11.525 (0.934)	492647	45.2346	45.2	
64 1,2-Dibromoethane	107	11.696	11.697 (1.324)	310711	49.1176	49.1	
65 2-Hexanone	43	11.975	11.976 (0.971)	229986	50.1592	50.2	
* 66 Chlorobenzene-D5	117	12.332	12.340 (1.000)	1005672	50.0000		
67 Chlorobenzene	112	12.361	12.362 (1.002)	793275	51.1414	51.1	
152 1-Chlorohexane	91	12.325	12.333 (0.999)	425990	43.6424	43.6	
68 Ethylbenzene	106	12.389	12.398 (1.005)	414868	47.0813	47.1	
69 1,1,1,2-Tetrachloroethane	131	12.440	12.448 (1.009)	308441	54.8532	54.8	
M 70 Xylenes (total)	106			1547019	151.102	151	
71 m+p-Xylenes	106	12.583	12.583 (1.020)	1032358	99.0618	99.1	
72 o-Xylene	106	13.155	13.163 (1.067)	514661	52.0397	52.0	
73 Styrene	104	13.233	13.234 (1.073)	855494	49.0194	49.0	
74 Bromoform	173	13.269	13.270 (1.076)	235903	57.1153	57.1	
75 Isopropylbenzene	105	13.591	13.592 (0.866)	1373064	49.5989	49.6	
\$ 76 P-Bromofluorobenzene	95	13.991	13.999 (1.583)	487369	48.0793	48.1	
77 cis-1,4-Dichloro-2-Butene	53	14.091	14.099 (0.898)	143479	51.6252	51.6	

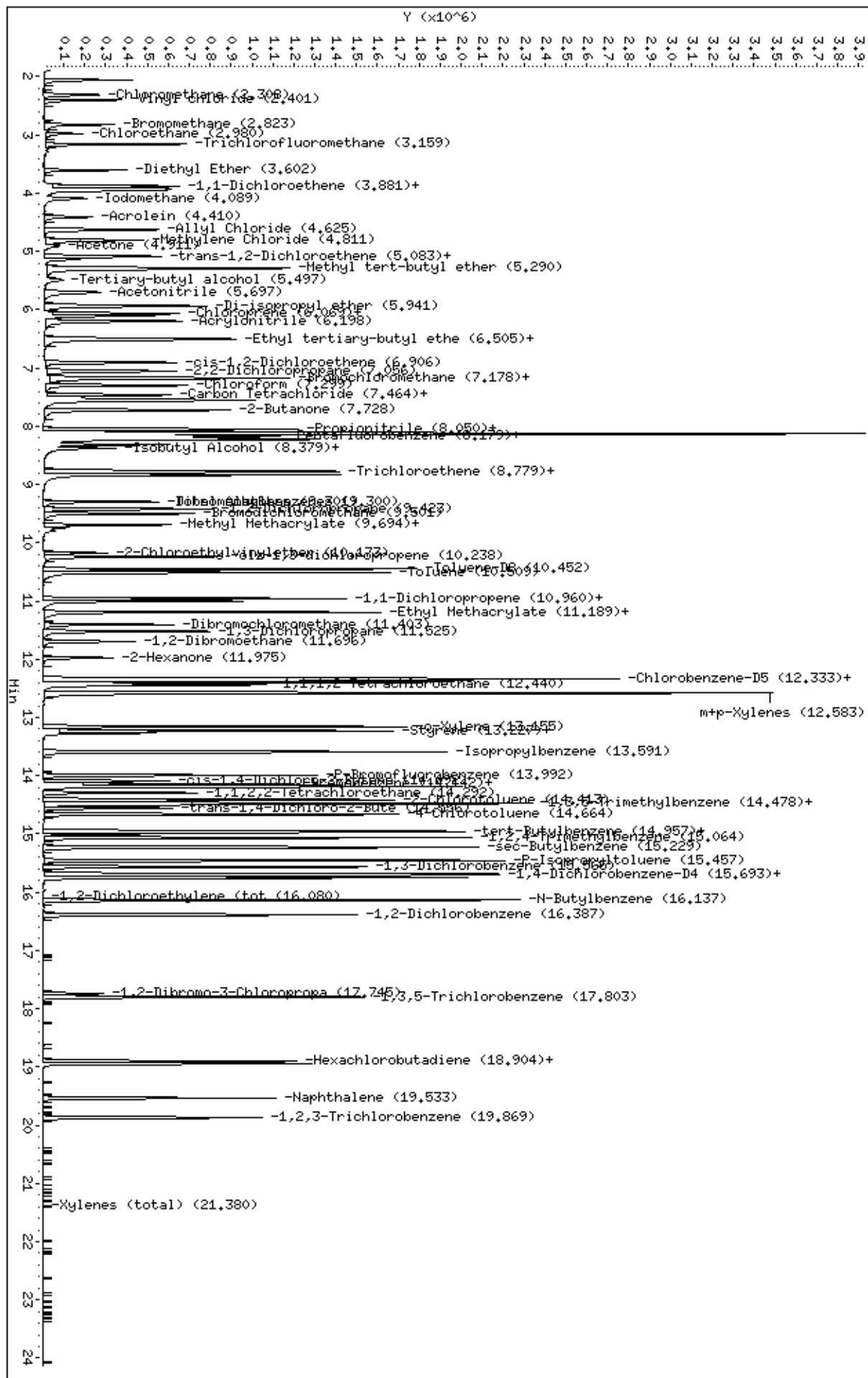
Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN		FINAL
							(ug/l)		(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
78 trans-1,4-Dichloro-2-Butene	53	14.556	14.557	(0.928)	139102	53.1732	53.2		
79 Bromobenzene	156	14.148	14.149	(0.902)	356944	46.3227	46.3		
80 N-Propylbenzene	91	14.184	14.192	(0.904)	1676484	45.3461	45.3		
81 1,1,2,2-Tetrachloroethane	83	14.291	14.292	(0.911)	397081	40.9135	40.9		
82 1,3,5-Trimethylbenzene	105	14.477	14.478	(0.923)	1202126	45.1055	45.1		
83 2-Chlorotoluene	91	14.413	14.421	(0.919)	1034043	46.7340	46.7		
84 1,2,3-Trichloropropane	75	14.492	14.500	(0.924)	333903	42.1611	42.2		
85 4-Chlorotoluene	91	14.663	14.664	(0.935)	1089786	48.0652	48.1		
86 tert-Butylbenzene	119	14.956	14.957	(0.954)	1255038	52.6869	52.7		
87 Pentachloroethane	117	14.985	14.993	(0.955)	279878	54.5839	54.6		
88 1,2,4-Trimethylbenzene	105	15.064	15.072	(0.960)	1233947	46.6634	46.7		
89 P-Isopropyltoluene	119	15.457	15.465	(0.985)	1384844	53.4784	53.5		
90 1,3-Dichlorobenzene	146	15.564	15.572	(0.992)	694079	51.9775	52.0		
* 91 1,4-Dichlorobenzene-D4	152	15.686	15.694	(1.000)	579597	50.0000			
92 1,4-Dichlorobenzene	146	15.707	15.715	(1.001)	705153	46.6407	46.6		
93 N-Butylbenzene	91	16.136	16.143	(1.029)	1413805	43.4630	43.5		
94 sec-Butylbenzene	105	15.228	15.236	(0.971)	1610466	49.4504	49.4		
95 1,2-Dichlorobenzene	146	16.386	16.393	(1.045)	655868	52.3579	52.4		
96 1,2-Dibromo-3-Chloropropane	75	17.745	17.753	(1.131)	87621	49.9765	50.0		
97 1,3,5-Trichlorobenzene	180	17.802	17.803	(1.135)	564447	54.9054	54.9		
98 Hexachlorobutadiene	225	18.903	18.911	(1.205)	275368	58.1296	58.1(R)		
99 1,2,4-Trichlorobenzene	180	18.946	18.947	(1.208)	459423	50.3288	50.3		
100 1,2,3-Trimethylbenzene	105	15.750	15.758	(1.004)	1250820	50.9315	50.9		
101 Naphthalene	128	19.532	19.541	(1.245)	973430	50.5552	50.6		
102 1,2,3-Trichlorobenzene	180	19.869	19.877	(1.267)	375683	47.3074	47.3		
103 Methyl Acetate	43	5.132	5.140	(0.628)	247408	39.7017	39.7		
104 Methylcyclohexane	83	8.764	8.772	(1.072)	457975	46.4080	46.4		
M 153 Total Alkylbenzenes	100				9776710	336.194	336		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gs\chem\goms-c.i\042213.b\00559.D
 Date : 22-APR-2013 10:40
 Client ID: MG123007-LCS
 Sample Info: MG123007-1,SG2375
 Purge Volume: 5.0
 Column phase: RTX-VHS

Instrument: goms-c.i
 Operator: REC
 Column diameter: 0.18



MS/MSD Recovery Report

MS ID: WG122853-5
MSD ID: WG122853-6
Sample ID: SG2375-7
Client ID: G009-MW02LTM040913
Project:
SDG: SG2375
MS File ID: C0527.D

Received Date:
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853
Report Date: 23-APR-13
MSD File ID: C0528.D

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dichlorodifluoromethane	50.0	50.0	ug/L	ULMM2.	99.1	93.8	198.*	188.*	5	20	29-164
Chloromethane	50.0	50.0	ug/L	U2.0	56.1	54.7	112.	109.	2	20	59-123
Vinyl Chloride	50.0	50.0	ug/L	U2.0	61.4	62.4	123.	125.	2	20	64-131
Bromomethane	50.0	50.0	ug/L	U2.0	52.9	58.7	106.	117.	10	20	57-135
Chloroethane	50.0	50.0	ug/L	U2.0	75.7	74.4	151.	149.	2	20	53-157
Trichlorofluoromethane	50.0	50.0	ug/L	U2.0	56.9	59.5	114.	119.	4	20	70-149
1,1-Dichloroethene	50.0	50.0	ug/L	UL1.0	45.3	48.6	90.6	97.2	7	20	88-127
Freon-113	50.0	50.0	ug/L	U1.0	59.2	57.8	118.	116.	2	20	73-126
Acetone	50.0	50.0	ug/L	U5.0	39.1	40.3	78.2	80.6	3	20	62-172
Carbon Disulfide	50.0	50.0	ug/L	U1.0	50.3	51.9	101.	104.	3	20	71-129
Methyl Acetate	50.0	50.0	ug/L	U1.0	37.6	40.5	75.2	81.0	7	20	70-132
Methylene Chloride	50.0	50.0	ug/L	U5.0	44.7	45.3	89.4	90.6	1	20	72-129
trans-1,2-Dichloroethene	50.0	50.0	ug/L	U1.0	41.9	43.8	83.8	87.6	4	20	78-125
Methyl tert-butyl Ether	100.	100.	ug/L	U1.0	101.	106.	101.	106.	5	20	81-125
1,1-Dichloroethane	50.0	50.0	ug/L	U1.0	48.5	49.0	97.0	98.0	1	20	76-130
cis-1,2-Dichloroethene	50.0	50.0	ug/L	UL1.0	43.5	45.2	87.0	90.4	4	20	85-123
2-Butanone	50.0	50.0	ug/L	U5.0	45.7	45.9	91.4	91.8	0	20	71-132
Chloroform	50.0	50.0	ug/L	U1.0	48.2	49.0	96.4	98.0	2	20	78-128
1,1,1-Trichloroethane	50.0	50.0	ug/L	U1.0	54.3	53.8	109.	108.	1	20	77-129
Cyclohexane	50.0	50.0	ug/L	U1.0	48.9	49.2	97.8	98.4	1	20	71-133
Carbon Tetrachloride	50.0	50.0	ug/L	UMM1.0	65.4	67.0	131.*	134.*	2	20	87-126
Benzene	50.0	50.0	ug/L	U1.0	48.2	49.5	96.4	99.0	3	20	86-116
1,2-Dichloroethane	50.0	50.0	ug/L	U1.0	53.8	54.0	108.	108.	0	20	81-125
Trichloroethene	50.0	50.0	ug/L	J0.36	48.8	51.5	96.9	102.	5	20	79-121
Methylcyclohexane	50.0	50.0	ug/L	U1.0	54.6	52.5	109.	105.	4	20	73-125
1,2-Dichloropropane	50.0	50.0	ug/L	U1.0	46.5	49.1	93.0	98.2	5	20	84-118
Bromodichloromethane	50.0	50.0	ug/L	U1.0	54.7	55.8	109.	112.	2	20	85-122
cis-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	44.3	45.6	88.6	91.2	3	20	83-119
4-Methyl-2-Pentanone	50.0	50.0	ug/L	U5.0	52.0	53.2	104.	106.	2	20	83-122
Toluene	50.0	50.0	ug/L	U1.0	49.0	50.4	98.0	101.	3	20	84-118
trans-1,3-Dichloropropene	50.0	50.0	ug/L	U1.0	53.5	56.3	107.	113.	5	20	85-135
1,1,2-Trichloroethane	50.0	50.0	ug/L	U1.0	47.3	49.0	94.6	98.0	4	20	84-115
Tetrachloroethene	50.0	50.0	ug/L	U1.0	52.1	55.8	104.	112.	7	20	47-155

MS/MSD Recovery Report

MS ID: WG122853-5
MSD ID: WG122853-6
Sample ID: SG2375-7
Client ID: G009-MW02LTM040913
Project:
SDG: SG2375
MS File ID: C0527.D

Received Date:
Extract Date: 18-APR-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG122853
Report Date: 23-APR-13
MSD File ID: C0528.D

Analysis Date: 18-APR-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
2-Hexanone	50.0	50.0	ug/L	U5.0	51.2	52.8	102.	106.	3	20	80-124
Dibromochloromethane	50.0	50.0	ug/L	U1.0	56.2	58.6	112.	117.	4	20	85-119
1,2-Dibromoethane	50.0	50.0	ug/L	U1.0	47.9	50.4	95.8	101.	5	20	84-116
Chlorobenzene	50.0	50.0	ug/L	U1.0	55.4	56.2	111.	112.	1	20	89-113
Ethylbenzene	50.0	50.0	ug/L	U1.0	50.7	52.8	101.	106.	4	20	88-113
M+P-Xylenes	100.	100.	ug/L	U2.0	106.	108.	106.	108.	2	20	88-116
o-Xylene	50.0	50.0	ug/L	U1.0	53.8	56.2	108.	112.	4	20	90-116
Styrene	50.0	50.0	ug/L	U1.0	51.0	53.0	102.	106.	4	20	88-117
Bromoform	50.0	50.0	ug/L	U1.0	54.5	57.5	109.	115.	5	20	86-117
Isopropylbenzene	50.0	50.0	ug/L	U1.0	55.9	56.7	112.	113.	1	20	96-136
1,1,2,2-Tetrachloroethane	50.0	50.0	ug/L	U1.0	42.7	43.8	85.4	87.6	2	20	79-121
1,3-Dichlorobenzene	50.0	50.0	ug/L	UM1.0	54.2	55.7	108.	111.*	3	20	86-110
1,4-Dichlorobenzene	50.0	50.0	ug/L	U1.0	48.4	49.1	96.8	98.2	1	20	86-111
1,2-Dichlorobenzene	50.0	50.0	ug/L	UM1.0	54.1	56.1	108.	112.*	4	20	86-112
1,2-Dibromo-3-Chloropropane	50.0	50.0	ug/L	U1.0	49.6	53.7	99.2	107.	8	20	67-124
1,2,4-Trichlorobenzene	50.0	50.0	ug/L	U1.0	49.4	53.2	98.8	106.	7	20	76-126
bromochloromethane	50.0	50.0	ug/L	U1.0	45.5	46.1	91.0	92.2	1	20	85-117
1,4-Dioxane	1000	1000	ug/L	U100	805.	956.	80.5	95.6	17	20	10-149
1,2,3-trichlorobenzene	50.0	50.0	ug/L	U1.0	46.3	49.6	92.6	99.2	7	20	70-122
1,3,5-Trimethylbenzene	50.0	50.0	ug/L	U1.0	49.3	49.8	98.6	99.6	1	20	80-123
1,2,4-Trimethylbenzene	50.0	50.0	ug/L	U1.0	49.9	51.5	99.8	103.	3	20	83-118
4-Chlorotoluene	50.0	50.0	ug/L	U1.0	53.0	53.2	106.	106.	0	20	81-122
n-Butylbenzene	50.0	50.0	ug/L	U1.0	46.9	49.2	93.8	98.4	5	20	84-121
n-Propylbenzene	50.0	50.0	ug/L	U1.0	52.6	53.9	105.	108.	2	20	83-121
Naphthalene	50.0	50.0	ug/L	U1.0	51.0	55.0	102.	110.	8	20	62-126
p-Isopropyltoluene	50.0	50.0	ug/L	U1.0	58.0	59.5	116.	119.	2	20	88-121
sec-Butylbenzene	50.0	50.0	ug/L	U1.0	54.6	56.7	109.	113.	4	20	82-122
tert-Butylbenzene	50.0	50.0	ug/L	U1.0	57.3	59.3	115.	119.	3	20	84-121
1,2-Dichloroethane-d4							99.6	91.4			67-135
Toluene-d8							98.0	96.3			65-128
P-Bromofluorobenzene							97.2	96.4			56-133
Dibromofluoromethane							87.1	90.7			68-128

Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0527.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0527.D
Lab Smp Id: WG122853-5
Inj Date : 18-APR-2013 19:00 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122853-5,SG2375
Misc Info : WG122853,WG122628-4,SG2375-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 20 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	2.053	2.057	(0.251)	430368	99.1418	99.1(R)		
2 Chloromethane	50	2.310	2.309	(0.282)	427815	56.1016	56.1		
3 Vinyl chloride	62	2.403	2.409	(0.294)	345719	61.4137	61.4		
4 Bromomethane	94	2.818	2.824	(0.345)	208061	52.9486	52.9		
5 Chloroethane	64	2.983	2.988	(0.365)	152114	75.6774	75.7		
6 Trichlorofluoromethane	101	3.161	3.167	(0.386)	592511	56.9346	56.9		
7 Diethyl Ether	59	3.605	3.610	(0.441)	215663	48.0315	48.0		
8 Tertiary-butyl alcohol	59	5.492	5.498	(0.671)	140966	250.152	250		
9 1,1-Dichloroethene	96	3.884	3.882	(0.475)	243857	45.2825	45.3		
10 Carbon Disulfide	76	3.919	3.925	(0.479)	835495	50.2819	50.3		
11 Freon-113	151	3.941	3.946	(0.482)	179371	59.2259	59.2		
12 Iodomethane	142	4.091	4.103	(0.500)	239709	48.1505	48.2		
13 Acrolein	56	4.405	4.418	(0.539)	213411	183.549	184		
14 Methylene Chloride	84	4.813	4.818	(0.588)	294068	44.7153	44.7		
15 Acetone	43	4.913	4.911	(0.601)	116271	39.1276	39.1		
16 Isobutyl Alcohol	43	8.381	8.379	(1.024)	216543	971.494	971		
17 trans-1,2-Dichloroethene	96	5.085	5.090	(0.622)	256930	41.9469	41.9		
18 Allyl Chloride	41	4.627	4.633	(0.566)	449873	56.5926	56.6		
19 Methyl tert-butyl ether	73	5.292	5.297	(0.647)	1529892	101.280	101		
20 Acetonitrile	39	5.700	5.705	(0.697)	102813	477.739	478		
21 Di-isopropyl ether	45	5.936	5.941	(0.726)	906377	50.7219	50.7		
22 Chloroprene	53	6.071	6.070	(0.742)	476523	61.9499	61.9		
23 Propionitrile	54	8.109	8.106	(0.991)	464639	487.696	488		
24 Methacrylonitrile	41	8.131	8.129	(0.994)	1901909	528.918	529		

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.107	6.113 (0.747)	560900	48.5195	48.5	
26 Acrylonitrile	52	6.200	6.198 (0.758)	495598	226.045	226	
27 Ethyl tertiary-butyl ether	59	6.500	6.499 (0.795)	785886	51.2179	51.2	
28 Vinyl Acetate	43	6.522	6.520 (0.738)	633479	52.5155	52.5	
29 cis-1,2-Dichloroethene	96	6.908	6.913 (0.844)	283899	43.4802	43.5	
M 30 1,2-Dichloroethylene (total)	96			540829	85.4272	85.4	
31 Methyl Methacrylate	41	9.697	9.702 (1.097)	271721	55.3237	55.3	
32 2,2-Dichloropropane	77	7.058	7.064 (0.863)	412366	44.9799	45.0	
33 Bromochloromethane	128	7.187	7.185 (0.879)	121165	45.5225	45.5	
34 Chloroform	83	7.301	7.307 (0.893)	569847	48.2560	48.2	
35 Carbon Tetrachloride	117	7.466	7.464 (0.845)	445197	65.3548	65.4(R)	
36 Tetrahydrofuran	42	7.509	7.507 (0.918)	85750	40.6007	40.6	
\$ 37 Dibromofluoromethane	113	7.544	7.550 (0.922)	283843	43.5388	43.5	
38 1,1,1-Trichloroethane	97	7.559	7.564 (0.924)	549736	54.3423	54.3	
39 1,1-Dichloropropene	75	11.005	11.003 (1.245)	446202	53.5358	53.5	
40 2-Butanone	43	7.723	7.721 (0.944)	155427	45.7026	45.7	
41 Benzene	78	8.052	8.057 (0.911)	1047189	48.1524	48.2	
* 42 Pentafluorobenzene	168	8.181	8.179 (1.000)	544025	50.0000		
43 Cyclohexane	56	7.173	7.178 (0.877)	475617	48.8981	48.9	
44 Ethyl Methacrylate	69	11.191	11.189 (1.266)	351996	55.9921	56.0	
\$ 45 1,2-Dichloroethane-D4	65	8.231	8.236 (1.006)	423994	49.8059	49.8	
46 Tertiary-amyl methyl ether	73	8.217	8.222 (1.004)	677496	51.3105	51.3	
47 1,2-Dichloroethane	62	8.317	8.321 (0.941)	463423	53.7864	53.8	
48 Trichloroethene	95	8.789	8.794 (0.994)	284206	48.7558	48.8	
* 49 1,4-Difluorobenzene	114	8.839	8.844 (1.000)	922669	50.0000		
50 Dibromomethane	93	9.303	9.302 (1.053)	187575	48.4054	48.4	
51 1,2-Dichloropropane	63	9.425	9.423 (1.066)	266774	46.5293	46.5	
52 Bromodichloromethane	83	9.504	9.502 (1.075)	443831	54.6901	54.7	
53 cis-1,3-dichloropropene	75	10.240	10.245 (1.159)	422711	44.3303	44.3	
54 1,4-Dioxane	88	9.747	9.745 (1.103)	69117	805.080	805	
\$ 55 Toluene-D8	98	10.454	10.453 (1.183)	991398	49.0167	49.0	
57 Toluene	92	10.512	10.517 (1.189)	661545	48.9791	49.0	
58 4-methyl-2-pentanone	43	10.962	10.960 (1.240)	286296	52.0426	52.0	
59 Tetrachloroethene	164	10.955	10.960 (0.888)	220244	52.0617	52.1	
60 trans-1,3-Dichloropropene	75	11.005	11.003 (1.245)	446202	53.5358	53.5	
61 1,1,2-Trichloroethane	83	11.191	11.196 (1.266)	210141	47.3199	47.3	
62 Dibromochloromethane	129	11.405	11.411 (0.924)	302926	56.1548	56.2	
63 1,3-Dichloropropane	76	11.527	11.525 (0.934)	459455	47.2377	47.2	
64 1,2-Dibromoethane	107	11.699	11.697 (1.324)	271470	47.8642	47.9	
65 2-Hexanone	43	11.977	11.976 (0.970)	209461	51.1522	51.2	
* 66 Chlorobenzene-D5	117	12.342	12.340 (1.000)	898142	50.0000		
67 Chlorobenzene	112	12.364	12.362 (1.002)	767085	55.3737	55.4	
152 1-Chlorohexane	91	12.328	12.333 (0.999)	425416	48.8016	48.8	
68 Ethylbenzene	106	12.392	12.398 (1.004)	398896	50.6886	50.7	
69 1,1,1,2-Tetrachloroethane	131	12.442	12.448 (1.008)	283312	56.4165	56.4	
M 70 Xylenes (total)	106			1465423	160.200	160	
71 m+p-Xylenes	106	12.585	12.583 (1.020)	989786	106.348	106	
72 o-Xylene	106	13.157	13.163 (1.066)	475637	53.8519	53.8	
73 Styrene	104	13.229	13.234 (1.072)	794207	50.9561	51.0	
74 Bromoform	173	13.272	13.270 (1.075)	200919	54.4692	54.5	
75 Isopropylbenzene	105	13.593	13.592 (0.866)	1341115	55.9091	55.9	
\$ 76 P-Bromofluorobenzene	95	13.994	13.999 (1.583)	441670	48.5967	48.6	
77 cis-1,4-Dichloro-2-Butene	53	14.094	14.099 (0.898)	122829	51.0047	51.0	
78 trans-1,4-Dichloro-2-Butene	53	14.559	14.557 (0.928)	119824	52.8614	52.9	

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN		FINAL
							(ug/l)		(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
79 Bromobenzene	156	14.151	14.149	(0.902)	318274	47.6684	47.7		
80 N-Propylbenzene	91	14.187	14.192	(0.904)	1643872	52.6558	52.6		
81 1,1,2,2-Tetrachloroethane	83	14.294	14.292	(0.911)	358962	42.6847	42.7		
82 1,3,5-Trimethylbenzene	105	14.480	14.478	(0.923)	1139135	49.3276	49.3		
83 2-Chlorotoluene	91	14.416	14.421	(0.919)	992486	51.7671	51.8		
84 1,2,3-Trichloropropane	75	14.494	14.500	(0.924)	311846	45.4430	45.4		
85 4-Chlorotoluene	91	14.666	14.664	(0.935)	1041619	53.0193	53.0		
86 tert-Butylbenzene	119	14.959	14.957	(0.954)	1183394	57.3338	57.3		
87 Pentachloroethane	117	14.988	14.993	(0.955)	256236	57.6729	57.7		
88 1,2,4-Trimethylbenzene	105	15.066	15.072	(0.960)	1143765	49.9174	49.9		
89 P-Isopropyltoluene	119	15.460	15.465	(0.985)	1302482	58.0477	58.0		
90 1,3-Dichlorobenzene	146	15.574	15.572	(0.993)	627416	54.2247	54.2		
* 91 1,4-Dichlorobenzene-D4	152	15.688	15.694	(1.000)	502216	50.0000			
92 1,4-Dichlorobenzene	146	15.710	15.715	(1.001)	633959	48.3926	48.4		
93 N-Butylbenzene	91	16.139	16.143	(1.029)	1305619	46.9066	46.9		
94 sec-Butylbenzene	105	15.231	15.236	(0.971)	1541253	54.6169	54.6		
95 1,2-Dichlorobenzene	146	16.389	16.393	(1.045)	587154	54.0945	54.1		
96 1,2-Dibromo-3-Chloropropane	75	17.748	17.753	(1.131)	75394	49.6284	49.6		
97 1,3,5-Trichlorobenzene	180	17.805	17.803	(1.135)	493094	55.3550	55.4		
98 Hexachlorobutadiene	225	18.906	18.911	(1.205)	220798	53.6505	53.6		
99 1,2,4-Trichlorobenzene	180	18.949	18.947	(1.208)	391030	49.4367	49.4		
100 1,2,3-Trimethylbenzene	105	15.753	15.758	(1.004)	1172789	55.1121	55.1		
101 Naphthalene	128	19.535	19.541	(1.245)	851778	51.0532	51.0		
102 1,2,3-Trichlorobenzene	180	19.878	19.877	(1.267)	318842	46.3361	46.3		
103 Methyl Acetate	43	5.135	5.140	(0.628)	206231	37.6158	37.6		
104 Methylcyclohexane	83	8.767	8.772	(1.072)	473702	54.5603	54.6		
M 153 Total Alkylbenzenes	100				9259520	368.806	369		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gs\chem\goms-c.i\CD041813.b\CD0527.D

Date : 18-APR-2013 19:00

Client ID:

Sample Info: MG122853-5,SG2375

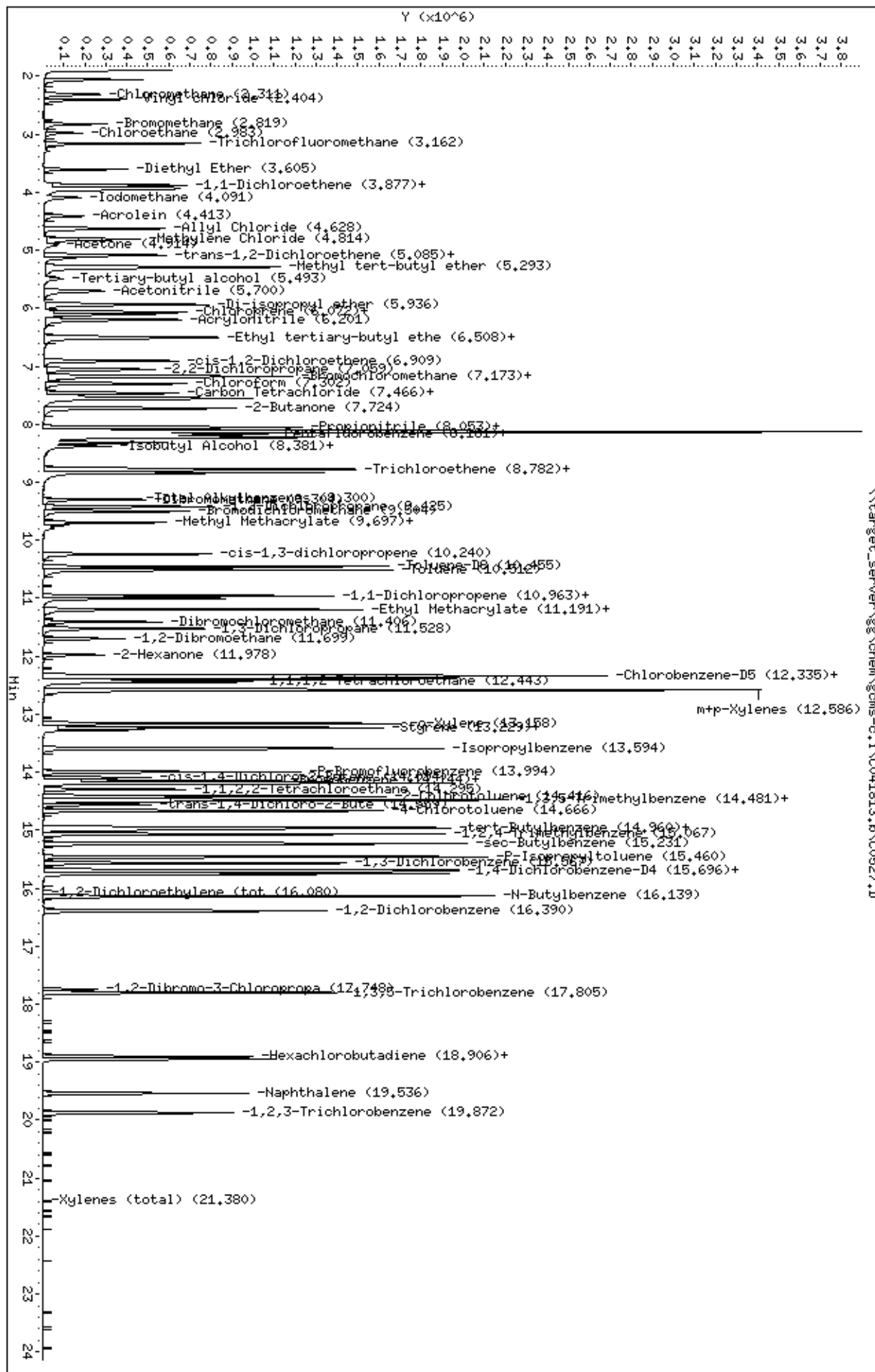
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C041813.b\C0528.D
Report Date: 23-Apr-2013 11:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C041813.b\C0528.D
Lab Smp Id: WG122853-6
Inj Date : 18-APR-2013 19:34 MS Autotune Date: 24-JAN-2013 11:20
Operator : REC Inst ID: gcms-c.i
Smp Info : WG122853-6,SG2375
Misc Info : WG122853,WG122628-4,SG2375-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C041813.b\C826A67.m
Meth Date : 23-Apr-2013 10:57 gcms-c.i Quant Type: ISTD
Cal Date : 11-APR-2013 15:49 Cal File: C0397.D
Als bottle: 21 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	2.057	2.057	(0.252)	426988	93.7783	93.8(R)		
2 Chloromethane	50	2.307	2.309	(0.282)	436979	54.6828	54.7		
3 Vinyl chloride	62	2.407	2.409	(0.294)	367800	62.4247	62.4		
4 Bromomethane	94	2.822	2.824	(0.345)	241693	58.7265	58.7		
5 Chloroethane	64	2.979	2.988	(0.364)	156740	74.3598	74.4		
6 Trichlorofluoromethane	101	3.158	3.167	(0.386)	645251	59.4991	59.5		
7 Diethyl Ether	59	3.609	3.610	(0.441)	239694	50.9700	51.0		
8 Tertiary-butyl alcohol	59	5.496	5.498	(0.672)	159209	269.751	270		
9 1,1-Dichloroethene	96	3.880	3.882	(0.475)	274110	48.5989	48.6		
10 Carbon Disulfide	76	3.916	3.925	(0.479)	901373	51.8715	51.9		
11 Freon-113	151	3.945	3.946	(0.482)	183492	57.8473	57.8		
12 Iodomethane	142	4.095	4.103	(0.501)	269092	52.5995	52.6		
13 Acrolein	56	4.410	4.418	(0.539)	235069	193.035	193		
14 Methylene Chloride	84	4.810	4.818	(0.588)	311532	45.2712	45.3		
15 Acetone	43	4.910	4.911	(0.600)	124719	40.3023	40.3		
16 Isobutyl Alcohol	43	8.378	8.379	(1.024)	232711	996.060	996		
17 trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	280951	43.7948	43.8		
18 Allyl Chloride	41	4.631	4.633	(0.566)	479427	57.5836	57.6		
19 Methyl tert-butyl ether	73	5.289	5.297	(0.647)	1679204	106.139	106		
20 Acetonitrile	39	5.697	5.705	(0.697)	110742	491.317	491		
21 Di-isopropyl ether	45	5.940	5.941	(0.726)	986403	52.7044	52.7		
22 Chloroprene	53	6.068	6.070	(0.742)	504566	62.6298	62.6		
23 Propionitrile	54	8.106	8.106	(0.991)	498661	499.741	500		
24 Methacrylonitrile	41	8.128	8.129	(0.994)	2018928	538.241	538		

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS		REVIEW CODE
	MASS	RT	EXP RT		ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====
25 1,1-Dichloroethane	63	6.104	6.113 (0.746)	593257	48.9982	49.0	
26 Acrylonitrile	52	6.197	6.198 (0.758)	545419	237.521	238	
27 Ethyl tertiary-butyl ether	59	6.497	6.499 (0.795)	887538	55.2275	55.2	
28 Vinyl Acetate	43	6.519	6.520 (0.738)	667099	54.1325	54.1	
29 cis-1,2-Dichloroethene	96	6.905	6.913 (0.844)	309025	45.1885	45.2	
M 30 1,2-Dichloroethylene (total)	96			589976	88.9833	89.0	
31 Methyl Methacrylate	41	9.693	9.702 (1.097)	294834	58.7595	58.8	
32 2,2-Dichloropropane	77	7.055	7.064 (0.863)	443959	46.2364	46.2	
33 Bromochloromethane	128	7.184	7.185 (0.878)	128407	46.0621	46.1	
34 Chloroform	83	7.298	7.307 (0.892)	606116	49.0067	49.0	
35 Carbon Tetrachloride	117	7.463	7.464 (0.845)	466352	67.0118	67.0(R)	
36 Tetrahydrofuran	42	7.506	7.507 (0.918)	100235	45.3132	45.3	
\$ 37 Dibromofluoromethane	113	7.541	7.550 (0.922)	309617	45.3450	45.3	
38 1,1,1-Trichloroethane	97	7.563	7.564 (0.925)	570201	53.8169	53.8	
39 1,1-Dichloropropene	75	11.002	11.003 (1.245)	479115	56.2685	56.3	
40 2-Butanone	43	7.720	7.721 (0.944)	163379	45.8688	45.9	
41 Benzene	78	8.049	8.057 (0.911)	1099795	49.5013	49.5	
* 42 Pentafluorobenzene	168	8.178	8.179 (1.000)	569787	50.0000		
43 Cyclohexane	56	7.169	7.178 (0.877)	501731	49.2506	49.2	
44 Ethyl Methacrylate	69	11.188	11.189 (1.266)	384196	59.8211	59.8	
\$ 45 1,2-Dichloroethane-D4	65	8.235	8.236 (1.007)	407308	45.6826	45.7	
46 Tertiary-amyl methyl ether	73	8.213	8.222 (1.004)	731592	52.9023	52.9	
47 1,2-Dichloroethane	62	8.321	8.321 (0.942)	475820	54.0567	54.0	
48 Trichloroethene	95	8.785	8.794 (0.994)	306824	51.5222	51.5	
* 49 1,4-Difluorobenzene	114	8.835	8.844 (1.000)	942613	50.0000		
50 Dibromomethane	93	9.300	9.302 (1.053)	193696	48.9274	48.9	
51 1,2-Dichloropropane	63	9.422	9.423 (1.066)	287456	49.0757	49.1	
52 Bromodichloromethane	83	9.500	9.502 (1.075)	462630	55.8004	55.8	
53 cis-1,3-dichloropropene	75	10.244	10.245 (1.159)	444751	45.6549	45.6	
54 1,4-Dioxane	88	9.744	9.745 (1.103)	83867	956.219	956	
\$ 55 Toluene-D8	98	10.451	10.453 (1.183)	995225	48.1648	48.2	
57 Toluene	92	10.516	10.517 (1.190)	694836	50.3554	50.4	
58 4-methyl-2-pentanone	43	10.959	10.960 (1.240)	298733	53.1544	53.2	
59 Tetrachloroethene	164	10.959	10.960 (0.888)	241840	55.7679	55.8	
60 trans-1,3-Dichloropropene	75	11.002	11.003 (1.245)	479115	56.2685	56.3	
61 1,1,2-Trichloroethane	83	11.195	11.196 (1.267)	222234	48.9842	49.0	
62 Dibromochloromethane	129	11.410	11.411 (0.925)	324375	58.6596	58.6	
63 1,3-Dichloropropane	76	11.524	11.525 (0.934)	485368	48.6809	48.7	
64 1,2-Dibromoethane	107	11.696	11.697 (1.324)	292326	50.4509	50.4	
65 2-Hexanone	43	11.974	11.976 (0.970)	221687	52.8132	52.8	
* 66 Chlorobenzene-D5	117	12.339	12.340 (1.000)	920669	50.0000		
67 Chlorobenzene	112	12.360	12.362 (1.002)	798425	56.2258	56.2	
152 1-Chlorohexane	91	12.332	12.333 (0.999)	457520	51.2003	51.2	
68 Ethylbenzene	106	12.396	12.398 (1.005)	426326	52.8486	52.8	
69 1,1,1,2-Tetrachloroethane	131	12.446	12.448 (1.009)	303650	58.9869	59.0	
M 70 Xylenes (total)	106			1542836	164.579	164	
71 m+p-Xylenes	106	12.582	12.583 (1.020)	1034430	108.425	108	
72 o-Xylene	106	13.161	13.163 (1.067)	508406	56.1535	56.2	
73 Styrene	104	13.233	13.234 (1.072)	847015	53.0146	53.0	
74 Bromoform	173	13.269	13.270 (1.075)	217510	57.5242	57.5	
75 Isopropylbenzene	105	13.590	13.592 (0.866)	1398000	56.6760	56.7	
\$ 76 P-Bromofluorobenzene	95	13.998	13.999 (1.584)	447682	48.2160	48.2	
77 cis-1,4-Dichloro-2-Butene	53	14.098	14.099 (0.898)	131156	52.9630	53.0	
78 trans-1,4-Dichloro-2-Butene	53	14.556	14.557 (0.928)	129836	55.7014	55.7	

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN		FINAL
							(ug/l)		(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
79 Bromobenzene	156	14.148	14.149	(0.902)	336995	49.0827	49.1		
80 N-Propylbenzene	91	14.184	14.192	(0.904)	1724181	53.9457	53.9		
81 1,1,2,2-Tetrachloroethane	83	14.291	14.292	(0.911)	379284	43.8595	43.8		
82 1,3,5-Trimethylbenzene	105	14.477	14.478	(0.923)	1182795	49.8081	49.8		
83 2-Chlorotoluene	91	14.420	14.421	(0.919)	1044276	52.9689	53.0		
84 1,2,3-Trichloropropane	75	14.491	14.500	(0.923)	331112	46.9221	46.9		
85 4-Chlorotoluene	91	14.663	14.664	(0.934)	1073948	53.1599	53.2		
86 tert-Butylbenzene	119	14.956	14.957	(0.953)	1257856	59.2636	59.3		
87 Pentachloroethane	117	14.992	14.993	(0.955)	276360	60.4898	60.5		
88 1,2,4-Trimethylbenzene	105	15.070	15.072	(0.960)	1213441	51.5003	51.5		
89 P-Isopropyltoluene	119	15.464	15.465	(0.985)	1373934	59.5463	59.5		
90 1,3-Dichlorobenzene	146	15.571	15.572	(0.992)	663063	55.7278	55.7(R)		
* 91 1,4-Dichlorobenzene-D4	152	15.692	15.694	(1.000)	516434	50.0000			
92 1,4-Dichlorobenzene	146	15.714	15.715	(1.001)	661307	49.0904	49.1		
93 N-Butylbenzene	91	16.136	16.143	(1.028)	1396562	49.1936	49.2		
94 sec-Butylbenzene	105	15.235	15.236	(0.971)	1646512	56.7406	56.7		
95 1,2-Dichlorobenzene	146	16.393	16.393	(1.045)	626355	56.1174	56.1(R)		
96 1,2-Dibromo-3-Chloropropane	75	17.745	17.753	(1.131)	83861	53.6821	53.7		
97 1,3,5-Trichlorobenzene	180	17.802	17.803	(1.134)	514280	56.1439	56.1		
98 Hexachlorobutadiene	225	18.910	18.911	(1.205)	247277	58.5988	58.6(R)		
99 1,2,4-Trichlorobenzene	180	18.946	18.947	(1.207)	433149	53.2541	53.2		
100 1,2,3-Trimethylbenzene	105	15.757	15.758	(1.004)	1252684	57.2459	57.2		
101 Naphthalene	128	19.539	19.541	(1.245)	943960	55.0207	55.0		
102 1,2,3-Trichlorobenzene	180	19.875	19.877	(1.267)	351073	49.6154	49.6		
103 Methyl Acetate	43	5.132	5.140	(0.628)	232556	40.4995	40.5		
104 Methylcyclohexane	83	8.771	8.772	(1.073)	477108	52.4680	52.5		
M 153 Total Alkylbenzenes	100				9795281	379.998	380		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gs\chem\goms-c.i\CD041813.b\CD0528.D

Date: 18-Apr-2013 19:34

Client ID:

Sample Info: MG122853-6,SG2375

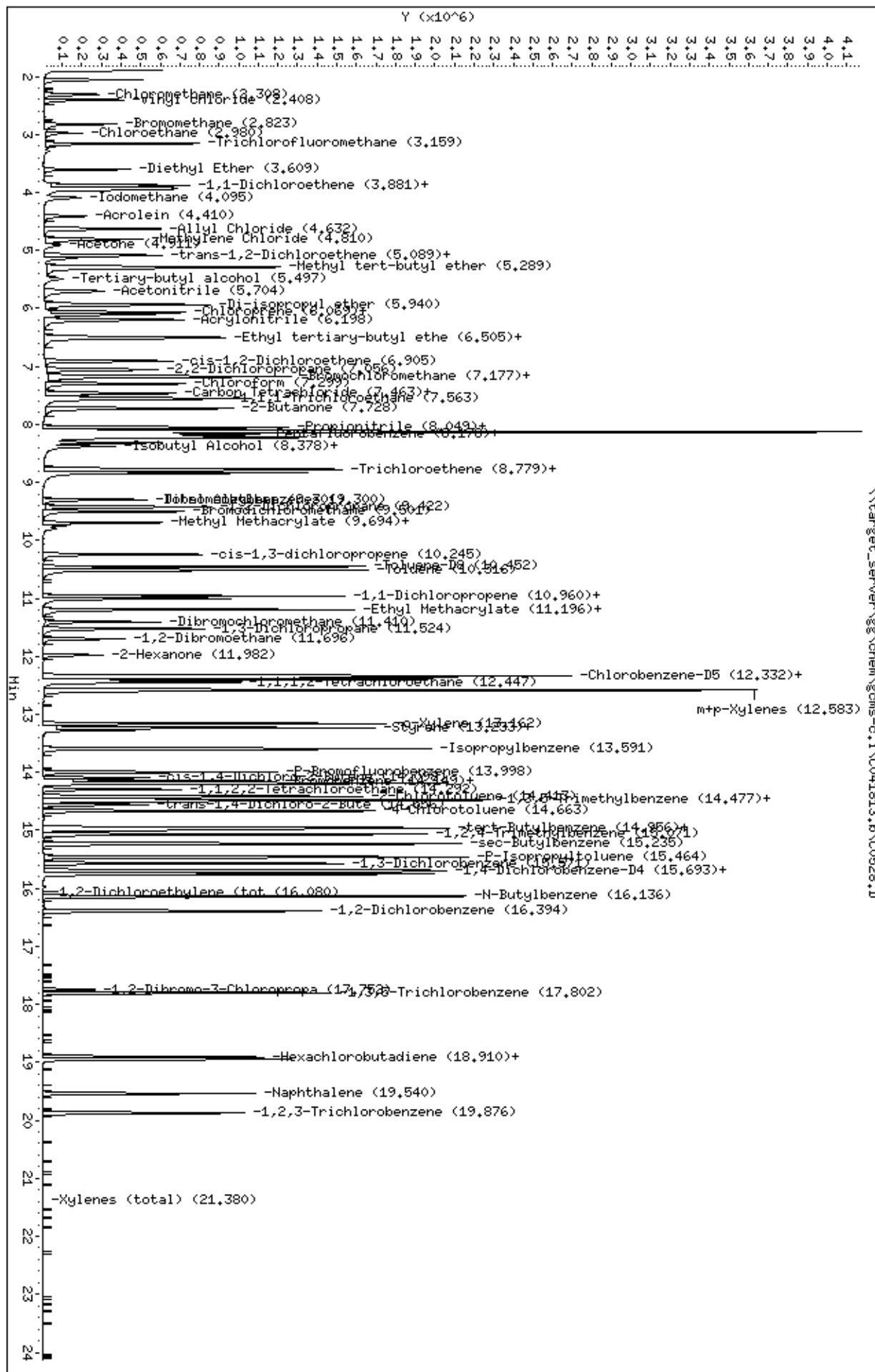
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: goms-c.i

Operator: REC

Column diameter: 0.18



Logbooks and Supporting Documents

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 04/11/2013

[illegible]

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 04/15/2013 8:23

SAMPLE NAME		DATAFILE	DF	ALS#	METHOD	5030	5035	1311	KAS	DoD	MGP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB	-3	CR535	1	-1	VOA/FRAQ								REC	7	
VSTDO50C15A	-4	C0433	1	1	C826A67										
LCSA W6122737-1		34	1	2											
VBLKA		35	1	3											
VBLKB		36	1	4											
VBLKC		37	1	5											
VBLKD	-2		1	6											
SG2374-1	A	39	1	7											
SG2375-1	A	40	1	8											
SG2266-1D2	B	41	5	9											
SG2266-2	B	42	1	10											
↓ -4DL	B	43	4	11											
SG2276-3RA	C	44	1	12											
↓ -7RA	B	45	1	13											
SG2375-3	A	46	1	14											
↓ -4	A	47	1	15											
↓ -5	A	48	1	16											
↓ -7	A	49	1	17											
↓ -2	A	50	1	18											
SG2374-2	A	51	1	19											
SG2375-7MS	B	52	1	20											
-7MSD	C	53	1	21											
Rinse		54	1	22											
CV Test		55	1	23											
LCS Test		56	1	24											
Rinse		57	1	25											
STANDARD		CODE			STANDARD										
BFB		V8829			IS MIX										
CAL. STD.		V8861			SS MIX										
LCS/MS MIX		V8861													
EXTRAS MIX		V8831													

Circle Methods:

SW846 8260

SW846 8260 SIM

SW846 8260 SIM

(heated purge)

OLM 04.2

OLC 03.2

EPA 624

EPA 524

VOA-002 - Revision 1 - 11/06/2009

QAMS517

00000020

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 04/18/2013 7:49

GC/MS-C INSTRUMENT RUNLOG

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD			Criteria			ANALYST	PH	COMMENTS
					5030	5035	1311	KAS	DoD	MCP	Y/N		
50 ng BFB	CB538	1	-1	V0A35BAA							Y	REC	
VSTD050C18A	CO508	1	1	C826A67							N		
VSTD050C18B	109	1	2								Y		
LC.SA W6122853-1	10	1	3								N		
VBLKA	11	1	4								N		
VBLKB	12	1	5								Y		
VBLKC	13	1	6		X						Y		
SG2441-12	14	1	7								Y		
↓ -13	15	1	8								Y		
SG2375-4	16	1	9								Y		
↓ -5	17	1	10								Y		
-2	18	1	11								Y		
-6	19	1	12								Y		
-7	20	1	13								Y		
-8	21	1	14								Y		
-9DL	22	5	15								N		not needed
-10DL	23	4	16								Y		
-11	24	1	17								Y		DL 1:4
-9	25	1	18								Y		
-10	26	1	19								Y		
-7MS	27	1	20								Y		W6122853-5
↓ -7MSD	28	1	21								Y		↓ -6 1934
Rinse	29	1	22								N		
Rinse	30	1	23								N		
Rinse	31	1	24								N		
DTP 041912													
STANDARD		CODE		STANDARD		CODE		Circle Methods:					
BFB		V8869		IS MIX		V8864		SW846 8260		OLM 04.2			
CAL. STD.		V8874 V8873		SS MIX		V8865		SW846 8260 SIM		OLC 03.2			
LCS/MS MIX		V8860						SW846 8260 SIM		EPA 624			
EXTRAS MIX		V8868						(heated purge)		EPA 524			

000002

000002

DATE/TIME OF BFB INJECTION: 04/19/2013 7:58

DATE/TIME OF BFB INJECTION: 0/17/2013 17:50

SAMPLE NAME			DATAFILE	DF	ALS#	METHOD	5030	5035	1311	KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB	-2	CB539	1	-1	VOABFBAa								Y	REC	7	
VSTD050C19A		C0533	1	1	C826AG7								N			
VSTD050C19B		34	1	2									N			
VSTD050C19C		35	1	3									N			
LCSA W6122901-1		36	1	4									Y			
VBLKA		37	1	5									N			
VBLKB		38	1	6									N			
VBLKC	-2	39	1	7									Y			
L0D@0.5		40	1	8												
L0D@0.6		41	1	9												
L0D@0.75		42	1	10												
L0D@0.75		43	1	11												
SG2383-1	A	44	1	12			X			X			Y		LA	
-2	A	45	1	13									Y		LA	
-3	B	46	1	14									Y		Z	
SG2375-HDL	B	47	4	15									Y		LA	
-12	A	48	1	16									Y		LA	DL1:5
-13	A	49	1	17									Y		LA	DL1:5
-14	A	50	1	18									Y		LA	RAC0
-15	A	51	1	19									Y		LA	18134✓
Rinse		52	1	20									N		Z	
Rinse		53	1	21									N		Z	
Rinse		54	1	22									N		Z	
Rinse		55	1	23									N		Z	
STANDARD		CODE														
BFB		V8869														
CAL. STD.		V8874 V8873														
LCS/MS MIX		V8860														
EXTRAS MIX		V8868														
STANDARD		CODE														
IS MIX		V8864														
SS MIX		V8865														
Circle Methods: SW846 8260 SW846 8260 SIM SW846 8260 SIM (heated purge)																
04/22/2013																

САНКТ-ПЕТЕРБУРГ

000002.

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 01/22/2013 5:02

SAMPLE INFORMATION				PREP METHOD				Criteria				ANALYST				COMMENTS			
SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	5030	5035	1311	KAS	DoD	MGR	Y/N	ANALYST	PH						
50 ng BFB -3	CB540	1	-1	5030 VOA/MSA Q							Y	REC							
VSTD050C22A	C0556	1	1	5030 VOA/MSA Q							N								
VSTD050C22B -4	57	1	2								Y								
VSTD050C22A -3	58	1	3								Y								
LCSA W6123007-1	59	1	4								N			Passes DoD not Lab					
LCSA W6123008-1	60	1	5								Y								
LCSB	61	1	6								Y								
VBLA	62	1	7								N								
VBLKB	63	1	8								N								
VBLKC	64A	1	9								Y								
SG2375-12DL B	65	5	10		X						Y			8mL → 40mL					
↓ -1302 B	66	5	11								Y			↓					
↓ -14 B	67	1	12								Y								
SG2377-19DL B	68	40	13					X			Y			2mL → 40mL					
↓ -20 B	69	1	14								Y								
↓ -21 B	70	1	15								Y								
↓ -22DL B	71	10	16								Y			4mL → 40mL					
SG2517-1DL	72	5	17								N			8mL → 40mL not needed					
↓ -2	73	1	18								Y								
↓ -3	74	1	19								Y								
↓ -4	75	1	20								Y								
↓ -5	76	1	21								Y								
↓ -1	77	1	22								N			2012					
Rinse	78	1	23								N								
Rinse	79	1	24								N								
SG2542-1 A	80	1	25								Y			AF added					
STANDARD	CODE			STANDARD															
BFB	V8869			IS MIX															
CAL. STD.	V8876			SS MIX															
LCS/MS MIX	V8860																		
EXTRAS MIX	V8868																		
Circle Methods:				CODE				V8864				OLM 04.2							
SW846 8260				V8865				SW846 8260 SIM				OLC 03.2							
SW846 8260 SIM								SW846 8260 SIM				EPA 624							
(heated purge)												EPA 524							

Circle Methods:

SW846 8260

SW846 8260 SIM

SW846 8260 SIM

(heated purge)

OLM 04.2

OLC 03.2

EPA 624

EPA 524



Data Usability Summary Report

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 31, 2013	Completed by: J. Z. Christopher

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per NYSDEC Division of Environmental Remediation Guidance for the Development of DUSRs (June 1999). Specific criteria for QC limits were obtained from the Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories Version 4.1. Compliance with the project QA program is indicated on the in the checklist and tables. Any major or minor concerns affected data usability are summarized listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Table 1: Sample Data from Electronic Data Deliverable

Lab Sample ID	Client Sample ID	Matrix	Sample Date	MS/MSD	ID Corrections
SG2375-1	AOC9-TB1-04082013	WQ	4/8/13		
SG2375-2	AOC9-MW05LTM040813	WG	4/8/13		
SG2375-3	AOC9-SW03LTM040813	WS	4/8/13		
SG2375-4	AOC9-SW02LTM040813	WS	4/8/13		
SG2375-5	AOC9-SW01LTM040813	WS	4/8/13		
SG2375-6	AOC9-MW06LTM040913	WG	4/9/13		
SG2375-7	G009-MW02LTM040913	WG	4/9/13	MS/MSD	
SG2375-8	G009-MW01LTM040913	WG	4/9/13		
SG2375-9	AOC9-MW17LTM040913	WG	4/9/13		
SG2375-10	AOC9-MW15LTM040913	WG	4/9/13		
SG2375-11	AOC9-MW15/DLTM040913	WG	4/9/13		OC9-MW15/DLTM040913
SG2375-12	AOC9-MW14LTM040913	WG	4/9/13		
SG2375-13	AOC9-MW14/DLTM040913	WG	4/9/13		OC9-MW14/DLTM040913
SG2375-14	AOC9-MW18LTM041013	WG	4/10/13		
SG2375-15	AOC9-MW19LTM041013	WG	4/10/13		

Work Orders, Tests and Number of Samples included in this DUSR

Lab Work Orders	Matrix	Test Method	Test Name	Number of Samples
SG2375	WQ	SW8260B	VOCs – by GC/MS	1
SG2375	WS	SW8260B	VOCs – by GC/MS	3
SG2375	WG	SW8260B	VOCs – by GC/MS	11

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 31, 2013	Completed by: J. Z. Christopher

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	Yes – Trip blank included in this SDG. Field duplicates collected (AOC9-MW15/DLTM040913 is the field duplicate of parent sample AOC9-MW15LTM040913 and AOC9-MW14/DLTM040913 is the field duplicate of parent sample AOC9-MW14LTM040913).
All ASP Forms complete?	No – AFCEE/DoD reporting format.
Case narrative present and complete?	Yes
Any holding time violations (See table below)?	No - All samples were prepared and analyzed within holding times.

Insert Holding time table below.

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria.

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

Volatile Organics Organics by GCMS	
Description	Notes and Qualifiers
Any compounds present in method, trip and field blanks (see Table 2)?	No
For samples, if results are <5 times the blank or < 10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs.	No results qualified
Surrogate for method blanks and LCS within limits?	Yes
Surrogate for samples and MS/MSD within limits? (See Table 3). All samples should be re-analyzed for VOCs? Samples should re-analyzed if >1 BN and/or > AP for BNAs is out. Matrix effects should be established.	Yes
Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes
MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then J flag positive data in original sample due to matrix?	No – Several compounds were non-compliant results qualified as noted on Table 4.

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 31, 2013	Completed by: J. Z. Christopher

Volatile Organics Organics by GCMS	
Description	Notes and Qualifiers
LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.	No – Several compounds were non-compliant results qualified as noted on Table 5.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes
Is initial calibration for target compounds <15 %RSD or curve fit?	Yes. The independent check standard recoveries were above criteria for dichlorodifluoromethane, chloromethane, vinyl chloride, and chloroethane; no qualifiers were added on this basis.
Is continuing calibration for target compounds < 20.5%D.	No - %D criteria not met for two compounds. Dichlorodifluoromethane results are qualified "J" and "UJ" as estimated for samples AOC9-MW15LTM040913, AOC9-MW15LTM040913, AOC9-MW15/DLTM040913, AOC9-MW05LTM040813, AOC9-TB1-04082013, AOC9-SW03LTM040813, AOC9-SW02LTM040813, AOC9-SW01LTM040813, AOC9-MW06LTM040913, G009-MW01LTM040913, and AOC9-MW17LTM040913. Bromoform results are qualified "J" and "UJ" as estimated for samples AOC9-TB1-04082013 and AOC9-SW03LTM040813.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes- Dilution results only reported where initial run was above calibration range as noted on Table 6.
For TICs are there any system related compounds that should not be reported?	NA
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Summary of Potential Impacts on Data Usability
Major Concerns
None
Minor Concerns
Results qualified "J" or "UJ" based on CCV %D, LCS recovery, MS/MSD recovery, or dilution.

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 31, 2013	Completed by: J. Z. Christopher

Table 2 - List of Positive Results for Blank Samples

None

Table 2A - List of Samples Qualified for Method Blank Contamination

None

Table 2B - List of Samples Qualified for Field Blank Contamination

None

Table 3 - List of Samples with Surrogates outside Control Limits

None

Table 4 - List MS/MSD Recoveries and RPDs outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Sample Qual.
SW8260B	SG2375-7MS	MS	CARBON TETRACHLORIDE	ND	50	131	1	87	126	J Flag Hits
SW8260B	SG2375-7MS	MS	DICHLORODIFLUOROMETHANE	ND	50	198	1	29	164	J Flag Hits
SW8260B	SG2375-7MSD	MSD	1,2-DICHLOROBENZENE	ND	50	112	1	86	112	J Flag Hits
SW8260B	SG2375-7MSD	MSD	1,3-DICHLOROBENZENE	ND	50	111	1	86	110	J Flag Hits
SW8260B	SG2375-7MSD	MSD	CARBON TETRACHLORIDE	ND	50	134	1	87	126	J Flag Hits
SW8260B	SG2375-7MSD	MSD	DICHLORODIFLUOROMETHANE	ND	50	188	1	29	164	J Flag Hits

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 31, 2013	Completed by: J. Z. Christopher

Table 5 - List LCS Recoveries outside Control Limits

Sample ID	Analyte	Method	Rec.	Low Limit	High Limit	No. of Affected Samples	Samp Qual
WG122737-1	1,2-DICHLOROBENZENE	SW8260B	113	86	112	2	J/UJ
WG122737-1	1,3-DICHLOROBENZENE	SW8260B	111	86	110	2	J/UJ
WG122737-1	BROMOFORM	SW8260B	118	86	117	2	J/UJ
WG122737-1	DICHLORODIFLUOROMETHANE	SW8260B	193	29	164	2	J/UJ
WG122737-1	VINYL CHLORIDE	SW8260B	132	64	131	2	J/UJ
WG122853-1	1,1-DICHLOROETHENE	SW8260B	83	88	127	9	J/UJ
WG122853-1	CIS-1,2-DICHLOROETHENE	SW8260B	83	85	123	9	J/UJ
WG122853-1	DICHLORODIFLUOROMETHANE	SW8260B	171	29	164	9	J/UJ
WG122901-1	1,1-DICHLOROETHENE	SW8260B	80	88	127	4	J/UJ
WG122901-1	CIS-1,2-DICHLOROETHENE	SW8260B	78	85	123	4	J/UJ
WG122901-1	trans-1,2-DICHLOROETHENE	SW8260B	76	78	125	4	J/UJ
WG123007-1	1,1-DICHLOROETHENE	SW8260B	79	88	127	3	J/UJ
WG123007-1	CIS-1,2-DICHLOROETHENE	SW8260B	81	85	123	3	J/UJ
WG123007-1	trans-1,2-DICHLOROETHENE	SW8260B	76	78	125	3	J/UJ

Table 6 –Samples that were Reanalyzed

Sample ID	Lab ID	Method	Sample Type	Action
AOC9-MW15LTM040913	SG2375-10	SW8260	Dilution	Report for E flag data only, add "J" flag
AOC9-MW15/DLTM040913	SG2375-11	SW8260	Dilution	Report for E flag data only, add "J" flag
AOC9-MW14LTM040913	SG2375-12	SW8260	Dilution	Report for E flag data only, add "J" flag
AOC9-MW14/DLTM040913	SG2375-13	SW8260	Dilution	Report for E flag data only, add "J" flag

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 31, 2013	Completed by: J. Z. Christopher

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Units	AOC9-MW14LTM040913	AOC9-MW14/DLTM040913	RPD	Rating	Sample Qualifier
SW8260B	1,2,4-TRIMETHYLBENZENE	ug/l	3.6	4	10.53	Good	None
SW8260B	1,2-DICHLOROBENZENE	ug/l	27	26	3.77	Good	None
SW8260B	1,2-DICHLOROETHANE-D4	ug/l	53	54.5	2.79	Good	None
SW8260B	1,3-DICHLOROBENZENE	ug/l	1.4	1.5	6.90	Good	None
SW8260B	1,4-DICHLOROBENZENE	ug/l	22	22	0.00	Good	None
SW8260B	BENZENE	ug/l	0.92	0.99	7.33	Good	None
SW8260B	CHLOROBENZENE	ug/l	240	250	4.08	Good	None
SW8260B	CIS-1,2-DICHLOROETHENE	ug/l	1.3	1.4	7.41	Good	None
SW8260B	CYCLOHEXANE	ug/l	2.2	2.4	8.70	Good	None
SW8260B	ETHYLBENZENE	ug/l	1.5	1.5	0.00	Good	None
SW8260B	ISOPROPYLBENZENE (CUMENE)	ug/l	3.1	3.3	6.25	Good	None
SW8260B	M,P-XYLENE (SUM OF ISOMERS)	ug/l	1.9	2.2	14.63	Good	None
SW8260B	METHYLCYCLOHEXANE	ug/l	3.7	4.5	19.51	Good	None
SW8260B	n-BUTYLBENZENE	ug/l	1.4	1.4	0.00	Good	None
SW8260B	n-PROPYLBENZENE	ug/l	2.4	2.6	8.00	Good	None
SW8260B	SEC-BUTYLBENZENE	ug/l	1.8	1.9	5.41	Good	None
SW8260B	t-BUTYLBENZENE	ug/l	0.66	0.73	10.07	Good	None
SW8260B	TRICHLOROETHYLENE (TCE)	ug/l	1	1	0.00	Good	None

Data Usability Summary Report	Project: Griffiss AFB Performance Monitoring
Date Completed: May 31, 2013	Completed by: J. Z. Christopher

Method	Analyte	Units	AOC9-MW15LTM040913	AOC9-MW15/DLTM040913	RPD	Rating	Sample Qualifier
SW8260B	1,2-DICHLOROBENZENE	ug/l	73	73	0.00	Good	None
SW8260B	1,2-DICHLOROETHANE-D4	ug/l	51.5	56	8.37	Good	None
SW8260B	1,3-DICHLOROBENZENE	ug/l	2.3	2.4	4.26	Good	None
SW8260B	1,4-DICHLOROBENZENE	ug/l	23	24	4.26	Good	None
SW8260B	BENZENE	ug/l	0.85	0.94	10.06	Good	None
SW8260B	CHLOROBENZENE	ug/l	360	380	5.41	Good	None
SW8260B	CIS-1,2-DICHLOROETHENE	ug/l	0.59	0.63	6.56	Good	None
SW8260B	ISOPROPYLBENZENE (CUMENE)	ug/l	1.7	2	16.22	Good	None
SW8260B	n-BUTYLBENZENE	ug/l	1.1	1.2	8.70	Good	None
SW8260B	SEC-BUTYLBENZENE	ug/l	1.8	2.1	15.38	Good	None
SW8260B	t-BUTYLBENZENE	ug/l	0.49	0.58	16.82	Good	None
SW8260B	TRICHLOROETHYLENE (TCE)	ug/l	0.7	0.78	10.81	Good	None

Key:

A = Analyte

NC = Not Calculated

ND = Not Detected

PQL = Practical Quantitation Limit

RPD = Relative Percent Difference

T = Tentatively Identified Compound

H

MAROS

MAROS Site Results

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

User Defined Site and Data Assumptions:

Hydrogeology and Plume Information:

Groundwater
Seepage Velocity: 87.5 ft/yr
Current Plume Length: 840 ft
Current Plume Width: 400 ft
Number of Tail Wells: 7
Number of Source Wells: 1

Down-gradient Information:

Distance from Edge of Tail to Nearest:
Down-gradient receptor: 1 ft
Down-gradient property: 1 ft
Distance from Source to Nearest:
Down-gradient receptor: 1140 ft
Down-gradient property: 1140 ft

Source Information:

Source Treatment: Excavation

NAPL is not observed at this site.

Data Consolidation Assumptions:

Time Period: 12/18/1997 to 4/10/2013
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: Detection Limit
J Flag Values: Actual Value

Plume Information Weighting Assumptions:

Consolidation Step 1. Weight Plume Information by Chemical
Summary Weighting: Weighting Applied to All Chemicals Equally
Consolidation Step 2. Weight Well Information by Chemical
Well Weighting: No Weighting of Wells was Applied.
Chemical Weighting: No Weighting of Chemicals was Applied.

Note: These assumptions were made when consolidating the historical monitoring data and lumping the Wells and COCs.

1. Compliance Monitoring/Remediation Optimization Results:

Preliminary Monitoring System Optimization Results: Based on site classification, source treatment and Monitoring System Category the following suggestions are made for site Sampling Frequency, Duration of Sampling before reassessment, and Well Density. These criteria take into consideration: Plume Stability, Type of Plume, and Groundwater Velocity.

COC	Tail Stability	Source Stability	Level of Effort	Sampling Duration	Sampling Frequency	Sampling Density
1,2-DICHLOROBENZENE	PD	PD	L	Continue remediation mechanism until reach stable trend or	No Recommendation	24
1,4-DICHLOROBENZENE	D	NT	M	Remove treatment system if previously reducing concentration	No Recommendation	24
CHLOROBENZENE	D	PI	M	Remediate indefinitely or consider increasing	No Recommendation	24
TETRACHLOROETHYLENE(PCE)	ND	ND			No Recommendation	24
TRICHLOROETHYLENE (TCE)	PD	NT	M	Remove treatment system if previously reducing concentration	No Recommendation	24

Note:

Plume Status: (I) Increasing; (PI) Probably Increasing; (S) Stable; (NT) No Trend; (PD) Probably Decreasing; (D) Decreasing

Design Categories: (E) Extensive; (M) Moderate; (L) Limited (N/A) Not Applicable, Insufficient Data Available

Level of Monitoring Effort Indicated by Analysis Moderate

2. Spatial Moment Analysis Results:

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
Zeroth Moment: Mass					
	1,2-DICHLOROBENZENE	2.57	7	62.6%	NT
	1,4-DICHLOROBENZENE	2.67	7	62.6%	NT
	CHLOROBENZENE	2.77	7	62.6%	NT
	TETRACHLOROETHYLENE(PCE)	2.54	7	62.6%	NT
	TRICHLOROETHYLENE (TCE)	2.59	7	62.6%	NT
1st Moment: Distance to Source					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma XX					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma YY					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.40 Saturated Thickness: Uniform: 20 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

MAROS Linear Regression Statistics Summary

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

Time Period: 12/18/1997 to 4/10/2013

Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: Detection Limit

J Flag Values : Actual Value

Well	Source/ Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
1,2-DICHLOROBENZENE									
AOC9-MW05	T	3.0E-03	3.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW06	T	3.0E-03	3.0E-03	4.6E-19	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	7.0E-02	4.0E-02	5.9E-02	No	-9.3E-04	0.85	99.4%	D
AOC9-MW15	T	4.8E-02	5.5E-02	2.3E-02	No	-2.1E-04	0.47	74.6%	S
AOC9-MW17	T	6.4E-02	6.6E-02	1.5E-02	No	4.7E-05	0.24	63.0%	NT
AOC9-MW19	S	4.7E-03	5.4E-03	1.7E-03	No	-1.3E-03	0.36	94.7%	PD
G009-MW01	T	1.0E-03	5.7E-04	1.1E-03	No	-1.7E-04	1.08	79.5%	NT
G009-MW02	T	3.0E-03	3.0E-03	4.8E-19	Yes	0.0E+00	0.00	100.0%	ND
1,4-DICHLOROBENZENE									
AOC9-MW05	T	3.0E-03	3.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW06	T	3.0E-03	3.0E-03	4.6E-19	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	5.0E-02	3.4E-02	3.6E-02	No	-7.9E-04	0.73	99.5%	D
AOC9-MW15	T	4.6E-02	2.8E-02	3.4E-02	No	-7.9E-04	0.74	99.5%	D
AOC9-MW17	T	2.2E-02	2.2E-02	8.7E-03	No	-7.4E-05	0.39	62.6%	S
AOC9-MW19	S	3.8E-03	4.0E-03	7.4E-04	No	3.2E-05	0.19	52.8%	NT
G009-MW01	T	3.0E-03	3.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	3.0E-03	3.0E-03	4.8E-19	Yes	0.0E+00	0.00	100.0%	ND
CHLOROBENZENE									
AOC9-MW05	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW06	T	4.5E-03	5.0E-03	1.4E-03	No	-6.9E-05	0.32	67.4%	S
AOC9-MW14	T	7.2E-01	3.5E-01	6.3E-01	No	-9.9E-04	0.88	98.9%	D
AOC9-MW15	T	8.0E-01	3.9E-01	6.2E-01	No	-8.4E-04	0.78	99.4%	D
AOC9-MW17	T	3.9E-01	3.0E-01	2.0E-01	No	-6.0E-05	0.52	58.0%	S
AOC9-MW19	S	3.1E-02	3.1E-02	1.7E-02	No	1.8E-03	0.56	98.2%	I
G009-MW01	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
TETRACHLOROETHYLENE(PCE)									
AOC9-MW05	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW06	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW14	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW15	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW17	T	2.3E-03	2.0E-03	9.8E-04	No	-1.2E-04	0.43	67.3%	S
AOC9-MW19	S	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW01	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
G009-MW02	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

Well	Source/ Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
TRICHLOROETHYLENE (TCE)									
TRICHLOROETHYLENE (TCE)									
AOC9-MW05	T	5.0E-03	5.0E-03	0.0E+00	Yes	0.0E+00	0.00	100.0%	ND
AOC9-MW06	T	1.7E-03	1.1E-03	1.4E-03	No	8.5E-05	0.84	72.6%	NT
AOC9-MW14	T	6.3E-03	2.0E-03	9.7E-03	No	-6.9E-04	1.55	85.7%	NT
AOC9-MW15	T	2.2E-03	2.0E-03	2.0E-03	No	-8.4E-04	0.91	91.9%	PD
AOC9-MW17	T	1.6E-02	1.5E-02	3.1E-03	No	-4.2E-05	0.19	63.9%	S
AOC9-MW19	S	1.4E-03	5.0E-04	2.0E-03	No	-1.7E-04	1.48	52.7%	NT
G009-MW01	T	1.6E-03	8.7E-04	1.9E-03	No	-3.2E-04	1.24	95.5%	D
G009-MW02	T	1.6E-03	7.9E-04	1.8E-03	No	-3.6E-04	1.13	97.8%	D

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Non-detect (ND); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); COV = Coefficient of Variation

MAROS Mann-Kendall Statistics Summary

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

Time Period: 12/18/1997 to 4/10/2013

Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: Detection Limit

J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
1,2-DICHLOROENZENE								
AOC9-MW05	T	5	0	0.00	0	40.8%	Yes	ND
AOC9-MW06	T	8	0	0.00	0	45.2%	Yes	ND
AOC9-MW14	T	7	7	0.85	-15	98.5%	No	D
AOC9-MW15	T	7	7	0.47	-3	61.4%	No	S
AOC9-MW17	T	7	7	0.24	5	71.9%	No	NT
AOC9-MW19	S	5	5	0.36	-7	92.1%	No	PD
G009-MW01	T	5	4	1.08	-2	59.2%	No	NT
G009-MW02	T	6	0	0.00	0	42.3%	Yes	ND
1,4-DICHLOROENZENE								
AOC9-MW05	T	5	0	0.00	0	40.8%	Yes	ND
AOC9-MW06	T	8	0	0.00	0	45.2%	Yes	ND
AOC9-MW14	T	7	7	0.73	-15	98.5%	No	D
AOC9-MW15	T	7	7	0.74	-15	98.5%	No	D
AOC9-MW17	T	7	7	0.39	-9	88.1%	No	S
AOC9-MW19	S	5	5	0.19	1	50.0%	No	NT
G009-MW01	T	5	0	0.00	0	40.8%	Yes	ND
G009-MW02	T	6	0	0.00	0	42.3%	Yes	ND
CHLOROENZENE								
AOC9-MW05	T	5	0	0.00	0	40.8%	Yes	ND
AOC9-MW06	T	8	1	0.32	-1	50.0%	No	S
AOC9-MW14	T	7	7	0.88	-17	99.5%	No	D
AOC9-MW15	T	7	7	0.78	-17	99.5%	No	D
AOC9-MW17	T	7	7	0.52	-7	80.9%	No	S
AOC9-MW19	S	5	5	0.56	6	88.3%	No	NT
G009-MW01	T	5	0	0.00	0	40.8%	Yes	ND
G009-MW02	T	6	0	0.00	0	42.3%	Yes	ND
TETRACHLOROETHYLENE(PCE)								
AOC9-MW05	T	5	0	0.00	0	40.8%	Yes	ND
AOC9-MW06	T	8	0	0.00	0	45.2%	Yes	ND
AOC9-MW14	T	7	0	0.00	0	43.7%	Yes	ND
AOC9-MW15	T	7	0	0.00	0	43.7%	Yes	ND
AOC9-MW17	T	7	7	0.43	-2	55.7%	No	S
AOC9-MW19	S	5	0	0.00	0	40.8%	Yes	ND
G009-MW01	T	5	0	0.00	0	40.8%	Yes	ND
G009-MW02	T	6	0	0.00	0	42.3%	Yes	ND

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
TRICHLOROETHYLENE (TCE)								
TRICHLOROETHYLENE (TCE)								
AOC9-MW05	T	5	0	0.00	0	40.8%	Yes	ND
AOC9-MW06	T	8	7	0.84	9	83.2%	No	NT
AOC9-MW14	T	7	6	1.55	-12	94.9%	No	PD
AOC9-MW15	T	7	5	0.91	-9	88.1%	No	S
AOC9-MW17	T	7	7	0.19	3	61.4%	No	NT
AOC9-MW19	S	5	4	1.48	1	50.0%	No	NT
G009-MW01	T	5	4	1.24	-8	95.8%	No	D
G009-MW02	T	6	5	1.13	-11	97.2%	No	D

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-
Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Spatial Moment Analysis Summary

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

	<u>0th Moment</u>	<u>1st Moment (Center of Mass)</u>			<u>2nd Moment (Spread)</u>		
Effective Date	Estimated Mass (Kg)	Xc (ft)	Yc (ft)	Source Distance (ft)	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
1,2-DICHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						4
9/5/2004	0.0E+00						2
9/7/2004	0.0E+00						2
11/1/2006	0.0E+00						5
7/28/2010	9.0E-01	1,133,790	1,181,501	803	13,671	23,239	7
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						1
4/17/2012	0.0E+00						4
9/25/2012	0.0E+00						1
9/26/2012	0.0E+00						4
4/9/2013	6.9E-01	1,133,765	1,181,466	846	15,215	24,385	7
4/10/2013	0.0E+00						1
1,4-DICHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						4
9/5/2004	0.0E+00						2
9/7/2004	0.0E+00						2
11/1/2006	0.0E+00						5
7/28/2010	9.1E-01	1,133,785	1,181,518	796	13,488	25,135	7
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						1
4/17/2012	0.0E+00						4
9/25/2012	0.0E+00						1
9/26/2012	0.0E+00						4
4/9/2013	4.9E-01	1,133,764	1,181,496	826	14,671	26,895	7
4/10/2013	0.0E+00						1
CHLOROBENZENE							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						4
9/5/2004	0.0E+00						2
9/7/2004	0.0E+00						2
11/1/2006	0.0E+00						5
7/28/2010	6.0E+00	1,133,818	1,181,554	748	9,710	20,137	7
5/17/2011	0.0E+00						5

Project: Griffiss AFB

Location: Rome

User Name: M Fronckowiak

State: New York

Effective Date	<u>0th Moment</u>	<u>1st Moment (Center of Mass)</u>			<u>2nd Moment (Spread)</u>		Number of Wells
	Estimated Mass (kg)	Xc (ft)	Yc (ft)	Source Distance (ft)	Sigma XX (sq ft)	Sigma YY (sq ft)	
CHLOROBENZENE							
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						1
4/17/2012	0.0E+00						4
9/25/2012	0.0E+00						1
9/26/2012	0.0E+00						4
4/9/2013	2.6E+00	1,133,797	1,181,531	778	12,273	23,492	7
4/10/2013	0.0E+00						1
TETRACHLOROETHYLENE(PCE)							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						4
9/5/2004	0.0E+00						2
9/7/2004	0.0E+00						2
11/1/2006	0.0E+00						5
7/28/2010	2.9E-01	1,133,734	1,181,463	870	14,774	27,621	7
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						1
4/17/2012	0.0E+00						4
9/25/2012	0.0E+00						1
9/26/2012	0.0E+00						4
4/9/2013	2.9E-01	1,133,735	1,181,465	868	14,728	27,543	7
4/10/2013	0.0E+00						1
TRICHLOROETHYLENE (TCE)							
12/18/1997	0.0E+00						2
5/15/2000	0.0E+00						4
9/5/2004	0.0E+00						2
9/7/2004	0.0E+00						2
11/1/2006	0.0E+00						5
7/28/2010	2.1E-01	1,133,712	1,181,425	912	17,573	29,876	7
5/17/2011	0.0E+00						5
10/24/2011	0.0E+00						5
4/16/2012	0.0E+00						1
4/17/2012	0.0E+00						4
9/25/2012	0.0E+00						1
9/26/2012	0.0E+00						4
4/9/2013	1.5E-01	1,133,644	1,181,341	1,019	10,706	20,407	7
4/10/2013	0.0E+00						1

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
Zeroth Moment: Mass					
	1,2-DICHLOROBENZENE	2.57	7	62.6%	NT
	1,4-DICHLOROBENZENE	2.67	7	62.6%	NT
	CHLOROBENZENE	2.77	7	62.6%	NT
	TETRACHLOROETHYLENE(PCE)	2.54	7	62.6%	NT
	TRICHLOROETHYLENE (TCE)	2.59	7	62.6%	NT
1st Moment: Distance to Source					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma XX					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A
2nd Moment: Sigma YY					
	1,2-DICHLOROBENZENE	0.00	0	0.0%	N/A
	1,4-DICHLOROBENZENE	0.00	0	0.0%	N/A
	CHLOROBENZENE	0.00	0	0.0%	N/A
	TETRACHLOROETHYLENE(PCE)	0.00	0	0.0%	N/A
	TRICHLOROETHYLENE (TCE)	0.00	0	0.0%	N/A

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.40 Saturated Thickness: Uniform: 20 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events).

Note: The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.

MAROS Statistical Trend Analysis Summary

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

Time Period: 12/18/1997 to 4/10/2013

Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: Detection Limit

J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann- Kendall Trend	Linear Regression Trend
1,2-DICHLOROBENZENE								
AOC9-MW05	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND
AOC9-MW06	T	8	0	3.0E-03	3.0E-03	Yes	ND	ND
AOC9-MW14	T	7	7	7.0E-02	4.0E-02	No	D	D
AOC9-MW15	T	7	7	4.8E-02	5.5E-02	No	S	S
AOC9-MW17	T	7	7	6.4E-02	6.6E-02	No	NT	NT
AOC9-MW19	S	5	5	4.7E-03	5.4E-03	No	PD	PD
G009-MW01	T	5	4	1.0E-03	5.7E-04	No	NT	NT
G009-MW02	T	6	0	3.0E-03	3.0E-03	Yes	ND	ND
1,4-DICHLOROBENZENE								
AOC9-MW05	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND
AOC9-MW06	T	8	0	3.0E-03	3.0E-03	Yes	ND	ND
AOC9-MW14	T	7	7	5.0E-02	3.4E-02	No	D	D
AOC9-MW15	T	7	7	4.6E-02	2.8E-02	No	D	D
AOC9-MW17	T	7	7	2.2E-02	2.2E-02	No	S	S
AOC9-MW19	S	5	5	3.8E-03	4.0E-03	No	NT	NT
G009-MW01	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND
G009-MW02	T	6	0	3.0E-03	3.0E-03	Yes	ND	ND
CHLOROBENZENE								
AOC9-MW05	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW06	T	8	1	4.5E-03	5.0E-03	No	S	S
AOC9-MW14	T	7	7	7.2E-01	3.5E-01	No	D	D
AOC9-MW15	T	7	7	8.0E-01	3.9E-01	No	D	D
AOC9-MW17	T	7	7	3.9E-01	3.0E-01	No	S	S
AOC9-MW19	S	5	5	3.1E-02	3.1E-02	No	NT	I
G009-MW01	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND
G009-MW02	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND
TETRACHLOROETHYLENE(PCE)								
AOC9-MW05	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW06	T	8	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW14	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW15	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW17	T	7	7	2.3E-03	2.0E-03	No	S	S

MAROS Statistical Trend Analysis Summary

Well	Source/ Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann- Kendall Trend	Linear Regression Trend
TETRACHLOROETHYLENE(PCE)								
AOC9-MW19	S	5	0	5.0E-03	5.0E-03	Yes	ND	ND
G009-MW01	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND
G009-MW02	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND
TRICHLOROETHYLENE (TCE)								
AOC9-MW05	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND
AOC9-MW06	T	8	7	1.7E-03	1.1E-03	No	NT	NT
AOC9-MW14	T	7	6	6.3E-03	2.0E-03	No	PD	NT
AOC9-MW15	T	7	5	2.2E-03	2.0E-03	No	S	PD
AOC9-MW17	T	7	7	1.6E-02	1.5E-02	No	NT	S
AOC9-MW19	S	5	4	1.4E-03	5.0E-04	No	NT	NT
G009-MW01	T	5	4	1.6E-03	8.7E-04	No	D	D
G009-MW02	T	6	5	1.6E-03	7.9E-04	No	D	D

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); No Detectable Concentration (NDC)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Plume Analysis Summary

Project: Griffiss AFB

Location: Rome

User Name: M Fronckowiak

State: New York

Time Period: 12/18/1997 to 4/10/2013

Consolidation Period: No Time Consolidation

Consolidation Type: Median

Duplicate Consolidation: Average

ND Values: Detection Limit

J Flag Values : Actual Value

Constituent	Well	Source/ Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann- Kendall	Linear Regression	Modeling	Empirical
1,2-DICHLOROBENZENE											
	AOC9-MW05	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW06	T	8	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	7	7	7.0E-02	4.0E-02	No	D	D	N/A	N/A
	AOC9-MW15	T	7	7	4.8E-02	5.5E-02	No	S	S	N/A	N/A
	AOC9-MW17	T	7	7	6.4E-02	6.6E-02	No	NT	NT	N/A	N/A
	AOC9-MW19	S	5	5	4.7E-03	5.4E-03	No	PD	PD	N/A	N/A
	G009-MW01	T	5	4	1.0E-03	5.7E-04	No	NT	NT	N/A	N/A
	G009-MW02	T	6	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
1,4-DICHLOROBENZENE											
	AOC9-MW05	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW06	T	8	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	7	7	5.0E-02	3.4E-02	No	D	D	N/A	N/A
	AOC9-MW15	T	7	7	4.6E-02	2.8E-02	No	D	D	N/A	N/A
	AOC9-MW17	T	7	7	2.2E-02	2.2E-02	No	S	S	N/A	N/A
	AOC9-MW19	S	5	5	3.8E-03	4.0E-03	No	NT	NT	N/A	N/A
	G009-MW01	T	5	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	6	0	3.0E-03	3.0E-03	Yes	ND	ND	N/A	N/A
CHLOROBENZENE											
	AOC9-MW05	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW06	T	8	1	4.5E-03	5.0E-03	No	S	S	N/A	N/A
	AOC9-MW14	T	7	7	7.2E-01	3.5E-01	No	D	D	N/A	N/A

Project: Griffiss AFB

User Name: M Fronckowiak

Location: Rome

State: New York

Constituent	Well	Source/ Tail	Number of Samples	Number of Detects	Average (mg/L)	Median (mg/L)	All Samples "ND" ?	Mann- Kendall	Linear Regression	Modeling	Empirical
CHLOROBENZENE											
	AOC9-MW15	T	7	7	8.0E-01	3.9E-01	No	D	D	N/A	N/A
	AOC9-MW17	T	7	7	3.9E-01	3.0E-01	No	S	S	N/A	N/A
	AOC9-MW19	S	5	5	3.1E-02	3.1E-02	No	NT	I	N/A	N/A
	G009-MW01	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
TETRACHLOROETHYLENE(PCE)											
	AOC9-MW05	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW06	T	8	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW14	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW15	T	7	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW17	T	7	7	2.3E-03	2.0E-03	No	S	S	N/A	N/A
	AOC9-MW19	S	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW01	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	G009-MW02	T	6	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
TRICHLOROETHYLENE (TCE)											
	AOC9-MW05	T	5	0	5.0E-03	5.0E-03	Yes	ND	ND	N/A	N/A
	AOC9-MW06	T	8	7	1.7E-03	1.1E-03	No	NT	NT	N/A	N/A
	AOC9-MW14	T	7	6	6.3E-03	2.0E-03	No	PD	NT	N/A	N/A
	AOC9-MW15	T	7	5	2.2E-03	2.0E-03	No	S	PD	N/A	N/A
	AOC9-MW17	T	7	7	1.6E-02	1.5E-02	No	NT	S	N/A	N/A
	AOC9-MW19	S	5	4	1.4E-03	5.0E-04	No	NT	NT	N/A	N/A
	G009-MW01	T	5	4	1.6E-03	8.7E-04	No	D	D	N/A	N/A
	G009-MW02	T	6	5	1.6E-03	7.9E-04	No	D	D	N/A	N/A

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.