April 2011 Area Air and Sub-Slab Air Quarterly Monitoring Report – Building 4

General Services Administration

Bannister Federal Complex

Kansas City, Jackson County, Missouri

April 12, 2012

Terracon Project No. 02107144

Prepared for:

General Services Administration

Kansas City, Missouri

Prepared by:

Terracon Consultants, Inc.

Lenexa, Kansas

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April 12, 2012

Terracon

General Services Administration
Heartland Region
1500 East Bannister Rd (6PME)
Kansas City, MO 64131

Attn: Mr. Kevin D. Phillips, Computer Integrated Facilities Manager
Phone: (816) 823.1220

Re: April 2011 Area Air and Sub-Slab Air, Quarterly Monitoring Report – Building 4
Bannister Federal Complex - 1500 East Bannister Road
Kansas City, Missouri 64131
Terracon Project Number: 02107144

Dear Mr. Phillips:

Terracon Consultants, Inc. (Terracon) is pleased to submit this report summarizing quarterly area air and sub-slab air monitoring performed for the General Services Administration (GSA) at the Bannister Federal Complex (BFC), specifically Building 4, located at 1500 East Bannister Road, Kansas City, Missouri.

Terracon environmental personnel conducted area air and sub-slab air sampling beginning on April 15, 2011 through April 16, 2011. Services were performed in general accordance with Terracon's proposal (Proposal Number P02100887) dated September 23, 2010 and Tetra Tech EM Inc.'s (TetraTech) Final Work Plan and Quality Assurance Project Plan (Work Plan/QAPP) for Site Investigation and Limited Removal Action Activities dated September 1, 2010 and the subsequent addendum dated November November 24, 2010.

We appreciate the opportunity to be of service and provide this information as part of the ongoing evaluation work at the Bannister Federal Complex. If you have any questions regarding this report, please call us at 913-492-7777.

Sincerely,
Terracon Consultants, Inc.

Wil W. King, P.G.
Senior Project Geologist

Gary A. Ganson, CIH, CSP
Senior Consultant

Cindy A. Baldwin, CIH, LIH
Senior Industrial Hygienist

Copies to: Addressee (3 copies plus digital copy)
TetraTech (digital copy only)

TABLE OF CONTENTS

1.0 INTRODUCTION AND BACKGROUND 1

2.0 AIR MONITORING 3

3.0 ANALYTICAL METHODS 5

4.0 ANALYTICAL RESULTS 5

5.0 QUALITY ASSURANCE 7

6.0 CONCLUSIONS AND RECOMMENDATIONS 9

APPENDICES

APPENDIX A – Exhibits

Exhibit 1 Sample Location Diagram Building 4

APPENDIX B – Photographic Documentation

APPENDIX C – Field Logs

APPENDIX D – Analytical Tables

Table 1 Analytical Data Summary – Sub-Slab Air VOCs

Table 2 Analytical Data Summary – Crawlspace Air, Indoor Air, and Outdoor Air VOCs – 2nd Quarter

Table 3 Analytical Data Summary – Crawlspace VOCs – Short-Term Screening Levels

Table 4 Analytical Data Summary – Crawlspace Air, Indoor Air, and Outdoor Air VOCs – All Quarters

Table 5 Quality Control Data – Duplicate Air Sample Comparison – VOCs

APPENDIX E – Laboratory Analytical Reports

APRIL 2011 AREA AIR AND SUB-SLAB AIR QUARTERLY MONITORING REPORT
BUILDING 4
GENERAL SERVICES ADMINISTRATION
BANNISTER FEDERAL COMPLEX
1500 EAST BANNISTER ROAD
KANSAS CITY, MISSOURI 64131

Terracon Project Number: 02107144
April 12, 2012

1.0 INTRODUCTION AND BACKGROUND

This report presents the results of quarterly area air and sub-slab air sampling conducted for the General Services Administration (GSA) at the Bannister Federal Complex (BFC), specifically Building 4, located at 1500 East Bannister Road, Kansas City, Missouri. Sampling activities were performed on April 15, 2011 through April 16, 2011. Terracon Consultants, Inc. (Terracon) conducted area air and sub-slab air monitoring in general accordance with the Tetra Tech EM, Inc. (TetraTech) Work Plan and Quality Assurance Project Plan for Site Investigation and limited Removal Action Activities (Work Plan/QAPP), dated September 1, 2010, addendum dated November 24, 2010, and Terracon's proposal dated September 30, 2010. Area air and sub-slab air sampling was conducted in Building 4 to assess for the presence of volatile organic compounds (VOCs).

1.1 Property Location and Site History

The BFC is a 300-acre federal complex, bordered on the north by a wooded bluff and Legacy Park, on the east by the Blue River and Blue River Road, on the south by Bannister Road and Indian Creek, and on the west by Troost Avenue. BFC was originally established in 1942 to build aircraft engines for the U.S. Navy. After World War II, manufacture of aircraft engines continued on the western portion of the BFC until the 1960s, while manufacturing of non-nuclear components of nuclear weapons began within the eastern portions of the BFC in 1949. Historic site use is detailed further in the May 2008 Site Preliminary Assessment (PA) and Site Inspection Report performed by SCS Engineers (SCS). Currently, more than half of the BFC (generally the eastern portion of the BFC) is managed by the U.S. Department of Energy (DOE) as the Kansas City Plant (KCP), while the remaining portion of the BFC is managed by GSA and is used primarily as warehouse and office space for governmental agencies.

1.2 Project Objectives

The finished spaces of Building 4 have been built over a raised floor over the original building slab, creating a crawl space beneath the south and east sections of the building. This crawl space is accessed through a trap door located in the southeast office areas of the building.

Two crawlspace sub-slab, two crawlspace air, two office indoor spaces, and two outdoor air sampling locations were selected for collection and subsequent laboratory analysis. The air sampling locations were selected to:

- Evaluate airborne concentrations of VOCs in indoor air (office/occupied space locations).
- Evaluate potential migration pathways created by perforations in the building foundation slab due to potentially affected soil and groundwater.
- Evaluate background concentrations of VOCs in outdoor air associated with the GSA-controlled Building 4.

1.3 Scope and Report Limitations

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no other warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

These services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal.

The level of effort and associated tasks completed for this assessment were limited to the scope of services outlined in our September 30, 2010 proposal and in accordance with Contract GS-10F-0256K. Terracon did not attempt to identify every potential exposure or hazard present in the client's operation.

The results, findings, conclusions, and recommendations expressed in this report are based on sampling analytical results and information reported to Terracon by the client. Many factors such as workload, variations in work material composition, work processes, and weather conditions can affect air monitoring results. The information contained in this report should not be relied upon to represent conditions that existed previously or at a later date. Terracon does not warrant the services of regulatory agencies, laboratories, or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

This report is prepared for the exclusive use of our client for the specific application to the project discussed and has been prepared in accordance with generally accepted industrial hygiene practices. In the event any changes in nature or location of processes, materials, or other conditions as outlined in this report are observed, the conclusions contained in this report

cannot be considered valid unless the changes are reviewed and the conclusions of this report are modified or verified in writing.

2.0 AIR MONITORING

2.1 Sub-Slab Sampling Point Installation

The sub-slab sampling points used during the 1st Quarter/January 2011 sub-slab air sampling for VOCs were used for this 2nd Quarter/April 2011 sub-slab air sampling. Additional sub-slab sampling points were not installed between the 1st Quarter/January 2011 sampling and the 2nd Quarter/April 2011 sampling.

2.2 Air Sampling for VOCs

Sub-Slab, Crawlspace, Indoor, and Ambient Air Sampling for VOCs

On April 15, 2011 through April 16, 2011, Terracon environmental personnel conducted air sampling for VOCs at Building 4 of the GSA BFC. Sample locations are provided on the sample location diagram provided in Appendix A.

The sampling equipment consisted of lab-provided, evacuated, and certified summa canisters equipped with either 1-hour or 24-hour flow regulators. The 1-hour canisters were for collection of the sub-slab samples and the 24-hour canisters were for collection of ambient, room, and outdoor air samples

Prior to sample collection at each of the previously installed sub-slab probe locations for VOCs, a leak test was conducted to ensure no leaks were present between the sub-slab inlet and the summa canister/sample train. The leak test was conducted by placing a portable enclosure over the sampling probe, sample tubing (Teflon tubing) and summa canister, and introducing helium gas into the enclosure. An aliquot of sub-slab vapor was collected from the sample tubing line in an attached Tedlar bag using a vacuum box. Following, vapors were then screened for helium using an Dielectric MDG-2002. Terracon was unable to perform a passing leak test. Per Environmental Protection Agency (EPA, sampling was conducted without a passing leak test. Terracon and EPA determined that reinstallation of the two sub-slab sampling points was necessary prior to additional sampling.

In addition, prior to collecting the sub-slab samples, Terracon conducted a sub-slab vapor screening at each sampling port using a RAE Systems ppbRAE detector. The results were documented in the field notes.

Upon completion of the leak tests and VOC screenings, sub-slab vapor samples were collected for VOC analysis using lab-provided summa canisters and one-hour regulators. Sub-slab vapor sampling using summa canisters was conducted in general accordance with procedures in the *Draft SOP for Installation of Sub-Slab Vapor Probes and Sampling Using EPA Method TO-15 to Support Vapor Intrusion Investigations*.

Terracon personnel documented all pertinent information on the field logs, including sample locations, start and stop times, and regulator readings.

Following collection of sub-slab samples, crawlspace, indoor, and outdoor air samples were collected over an approximately 24-hour period. Samples were collected as described in the QAPP, Section 4.3 – Sampling Procedures and Requirements, and were analyzed for VOCs according to EPA Method TO-15A.

Summa canisters were placed as close as possible to the predetermined locations as described in the Work Plan/QAPP. Teflon tubing was attached to the summa canister and the opposite (open) end was attached to an aluminum tripod to collect air from an approximate height of 4 to 5 feet above grade, to approximate the breathing zone. The pressure readings on the regulators were noted at the start of the sampling, at intermittent times during the sampling, and at the end of the sampling period.

During the sampling, Terracon observed and noted that the pressure readings shown on the flow regulators appeared to be consistent between sample locations and appeared to be dropping at a pressure rate consistent with the 24-hour sampling timeframe. Terracon determined that the flow regulators appeared to be calibrated properly by the laboratory for the 1-hour and 24-hour samples.

Upon completion of the air sampling, the Teflon tubing and flow regulators were detached from the summa canisters, summa canisters sealed, and submitted to TestAmerica of Austin, Texas, under standard chain-of-custody (COC) protocol, for laboratory analysis by EPA Method TO-15A. Photographic documentation of sampling activities performed is provided in Appendix B.

Sampling Deviations

Leak tests attempted by Terracon prior to the April 15, 2011 sub-slab sampling failed due to apparent cracks in the concrete surrounding the sampling point. The April 2011 sampling was completed without a passed leak test. Terracon will reinstall two sub-slab sampling points prior to additional sub-slab sampling events.

3.0 ANALYTICAL METHODS

3.1 VOC Analysis

Samples were analyzed at the contract laboratory (TestAmerica), according to EPA Method TO-15. Reporting limits were generally equal to or less than the appropriate screening levels. TestAmerica was provided an example report from VOC air sampling performed previously at the GSA facility, with the intent to obtain similar reporting limits; however, some of the reporting limits provided in the example report exceeded the EPA's November 2011 Regional Screening Levels; therefore, some reporting levels for samples collected during the April 2011 sampling event exceed the applicable RSLs.

The requested analyses were selected based on past sampling data and historical information acquired for the site. Laboratory analysis was performed in accordance with the reference methods, as documented or amended by the laboratories' internal standard operating protocols (SOPs). Calibration procedures and frequencies were in accordance with the listed EPA methods. Calibration standards were prepared from standard reference materials. Expedited turnaround time was not requested by the GSA Project Manager; therefore, standard turnaround time was requested for all analysis.

4.0 ANALYTICAL RESULTS

4.1 Analytical Screening Limits

The Site-Specific Screening Levels provided in the USEPA Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011, were used as comparison values for the sub-slab, indoor, and outdoor air samples collected, with the exception of samples collected from the crawlspace (CS-1 and CS-2), which were compared to Short-Term Risk-Based Screening Levels.

The Site-Specific Screening Levels and Short-Term Risk-Based Screening Levels were developed by EPA Region 7, and are documented in EPA-prepared "Science Documents" for Buildings 50 and 52 available online at http://www.epa.gov/region7/cleanup/bannister/index.htm. Screening levels were developed based on the industrial worker exposure scenario. The site-specific screening level for TCE has been updated per the EPA memorandum to GSA dated October 12, 2011. Screening Levels utilized are provided on the tables presented in Appendix D.

4.1.1 Sub-Slab, Crawlspace, Indoor, and Ambient Air Sampling Results-VOCs

Sub-Slab: The April 2011 sub-slab air monitoring results indicated a naphthalene concentration of 4.09 micrograms per cubic meter (µg/m^3) in sample SS2. The identified concentration is above the SSSL of 2.9 µg/m^3 (cancer risk).

The sampling results also indicated a concentration of naphthalene of 5.4 µg/m^3, which is above the site specific screening level of 2.9 µg/m^3 for sub-slab location SS2.

Analytical tables are provided in Appendix D, Table 1.

Crawl Space – Short-Term Exposure: Because access to the crawl space sample locations (CS1 and CS2) is limited and exposure to workers is intermittent and of short duration, the VOC concentrations detected in the indoor air samples collected from these locations were compared to Short-Term Risk-Based Screening Levels.

The crawl space air samples collected did not exhibit VOC concentrations at levels above the Short-Term Risk-Based Screening Levels.

Laboratory results are provided in Appendix D, Table 3.

Indoor and Outdoor Air: The April 2011 indoor and outdoor air monitoring results did not indicate concentrations of VOCs above the site-specific screening levels in the indoor and outdoor air sampling locations.

On an additional note, concentrations of naphthalene were not identified in the crawlspace and indoor air samples collected. Analytical tables are provided in Appendix D, Table 4.

4.1.2 Total Health Risk Per Sample Location

Total cancer and total non-cancer risks were evaluated for each site sample location by summing the calculated cancer or non-cancer risk for VOCs analyzed per sample location. Sample locations did not exhibit total cancer risks greater than the EPA acceptable cancer risk range of 1.0×10^{-6} to 1.0×10^{-4}. Sample locations did not exhibit total non-cancer risks greater than the EPA acceptable non-cancer Hazard Index (HI) of 1. Total cancer and total non-cancer risks are presented on Tables 2 and 4, Appendix D.

4.2 Vapor Intrusion Pathway Evaluation

Comparison of sub-slab data to crawl space collected indicates a slight correlation to sub-slab and crawlspace air concentrations. Cis-1,2-DCE and related solvents have been identified in both the sub-slab and crawl space samples. Attenuation factors from the sub-slab to crawlspace appear to be less than 0.1 (attenuation greater than 10 times). However, the VOC

concentrations identified in the indoor air samples do not show a strong correlation to concentrations identified in both sub-slab and crawlspace sample locations.

5.0 QUALITY ASSURANCE

Following the QAPP requirements for data validation during sampling, Terracon conducted oversight of all sampling procedures. All calibration equipment used to set pump air flows were current to within one year of being laboratory calibrated. All equipment was field calibrated before and after sampling to verify the flow rates and functioning of the equipment. All calibration equipment was properly calibrated against recognized primary standards. Calibration equipment documentation is included in Appendix C.

5.1 Sample Collection, Handling, and Chain of Custody

Terracon collected and handled VOC samples in general accordance with the Tetra Tech Work Plan/QAPP dated September 1, 2010, subsequent addendum dated November 24, 2010, and Terracon's proposal dated September 30, 2010.

Terracon field personnel labeled the collected samples as described in the Work Plan/QAPP. Each sample was labeled with a unique sample identifier in the field and sample information was documented in the field worksheets. Sample label information included sample ID, date, and time. The sample identifier remained the same through laboratory reporting to ensure consistency.

Laboratory analytical reports were kept in a project file maintained and secured according to the Terracon filing system. A hard copy of this plan and other pertinent documents (e.g. correspondence, field notes, etc.) were also kept in the project file. No data or documentation were stored solely on electronic media. As previously stated, no project data were accepted prior to data validation in accordance with the QAPP.

Field personnel maintained project field worksheets that remained on site through the duration of the field activities. Observed site conditions, sample collection information, problems encountered, sampling plan deviations, etc. were documented on the field worksheets.

Sample chain-of-custody procedures were followed in accordance with the QAPP and relevant Terracon SOPs. Sample chain-of-custody forms recorded all personnel responsible for sample storage and transport through laboratory submission. Appendix E provides chain of custody documentation.

5.2 Environmental Laboratory Controls

TestAmerica of Austin, Texas performed the environmental laboratory analyses for the VOC samples.

Holding Times and Detection Limits

Laboratory analyses were performed within the sample holdings times prescribed by the specific analytical methods applied and as described in the QAPP. In addition, laboratory detection limits for the primary contaminants of concern were generally at or below applicable site specific screening levels. The laboratory reports in Appendix E outline the laboratory detection and reporting limits for each individual sample analysis.

Internal Laboratory Control Samples

A full data package (Level 4) was requested from TestAmerica. The Level 4 data package included a detailed case narrative and summary data sheets and summary quality control (QC) data sheets, and raw data. The QC data results include gas chromatograph/mass spectrometer (GC/MS) tuning data, initial and continuing calibration verification data (including response factors, percent relative standard deviation [%RSD], and percent difference [%D]), initial and continuing calibration blank data, surrogate recovery data, internal standard area recovery data, method blank data, matrix spike/matrix spike duplicate (MS/MSD) data, and laboratory control sample (LCS) data, at a minimum. In addition, the laboratories provided a summary of all reporting limits and detection limits. Also, relative percent differences (RPD) and percent recoveries (%R) were calculated for the MS/MSD data, and percent recoveries (%R) were calculated for the LCS data.

Laboratory quality assurance and quality control (QA/QC) results – e.g., laboratory blank, matrix spike, matrix spike duplicate, etc. – were within acceptable ranges based on the internal Level IV data validation procedures performed by TestAmerica. The Case Narrative summaries and quality control data packages provided in Appendix E provide additional details regarding laboratory QA/QC results.

5.3 VOC Air Sample Duplicate Results

Terracon collected a duplicate air sample for VOC analysis at sampling point B4-IA2. The corresponding duplicate sample is identified as B4-Dup-VOCs. Terracon performed a relative percent difference (RPD) calculation per the Work Plan/QAPP for the VOC analytical results in relation to the duplicate samples collected. The RPD calculation for VOCs resulted in RPD percentages below the target 20% presented in the Work Plan/QAPP.

5.4 Sample Media Blank Results

Terracon submitted one summa canister as a trip blank for laboratory analysis. Laboratory analysis of the summa canister blank sample did not indicate VOCs at concentrations above the laboratory reporting limits with the exception of acetone, a common laboratory contaminant, which was detected in the blank at an estimated concentration of 0.249 µg/m^3. Acetone was detected in internal laboratory blank sample and trip blank sample. Table 2 in Appendix D provides a summary of media blank laboratory analysis data.

5.5 Laboratory Controls

Laboratory data were reported within acceptable ranges for relevant quality control parameters (e.g. laboratory control samples, matrix spikes, etc.) and no results were rejected through TestAmerica quality control reviews. Internal laboratory QA/QC packages are provided with the Appendix E analytical reports.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusion

- The April 2011 sub-slab air monitoring results indicated a naphthalene concentration in sample SS2 above the SSSL (cancer risk).
- The crawl space air samples collected did not exhibit VOC concentrations at levels above the Short-Term Risk-Based Screening Levels.
- The April 2011 indoor and outdoor air monitoring results did not indicate concentrations of VOCs above the site-specific screening levels in the indoor and outdoor air sampling locations.
- Sample locations did not exhibit total cancer risks greater than the EPA acceptable cancer risk range of 1.0 x 10^{-6} to 1.0 x 10^{-4}.
- Sample locations did not exhibit total non-cancer risks greater than the EPA acceptable non-cancer HI of 1.
- Contaminant migrations may exist through perforations in the building foundation slab. However, based on identified contaminant concentrations at levels below the applicable site specific screening levels identified in the indoor air and crawlspace samples collected, it does not appear that

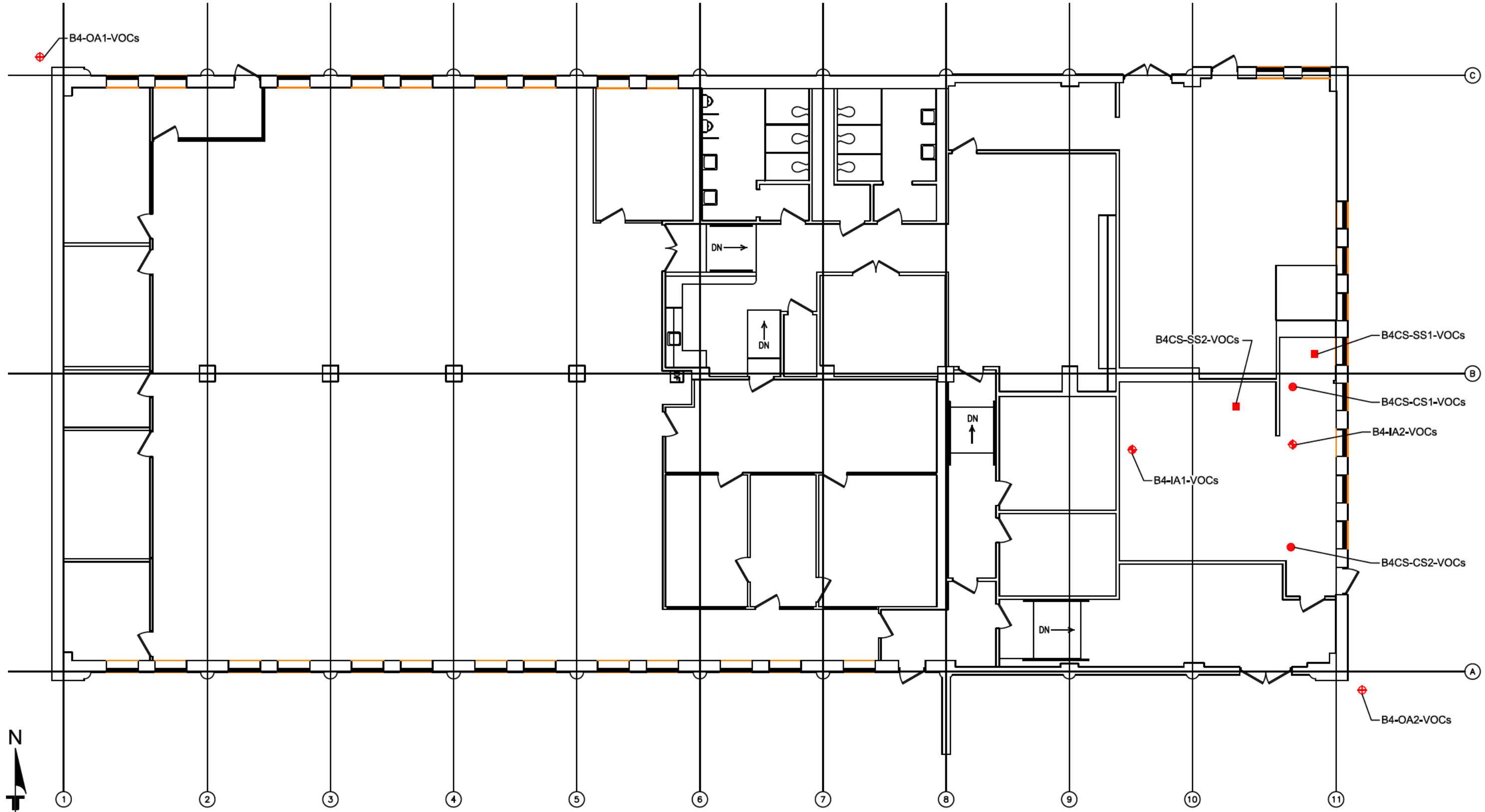
contaminants are migrating to the employee occupied spaces at concentrations above the applicable site specific screening levels.

6.2 Recommendations

Based on the results of the April 2011 sub-slab, crawlspace, indoor, and outdoor air sampling event, Terracon recommends continued quarterly air sampling for VOCs, per the site specific Work Plan/QAPP.

APPENDIX A

Exhibits



LEGEND

- INDOOR AIR SAMPLE LOCATION - VOCs
- SUB-SLAB VAPOR SAMPLE LOCATION - VOCs
- OUTDOOR AIR SAMPLE LOCATION - VOCs
- CRAWL SPACE AIR SAMPLE LOCATION - VOCs

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BASE FIGURE PROVIDED BY TETRA TECH

Project Mngr:	WWK	Project No.	02107144
Drawn By:	DBM	Scale:	NOT TO SCALE
Checked By:	WWK	File No.	E2
Approved By:	WWK	Date:	7/11/11

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13910 W. 96TH TERRACE KANSAS CITY, KS 66215
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EXHIBIT 1 - SAMPLE LOCATION DIAGRAM

BUILDING 4

SECOND QUARTER VOC SAMPLING
1500 E. BANNISTER ROAD
KANSAS CITY, MISSOURI

Exhibit #

1

APPENDIX B

Photographic Documentation

PHOTO #1 Building 4 – Crawl Space Sample No. B4CS-SS1-VOCs	
PHOTO #2 Building 4 – Crawl Space Sample No. B4CS-SS2-VOCs	
PHOTO #3 Building 4 – Crawl Space Sample No. B4CS-CS1-VOCs	

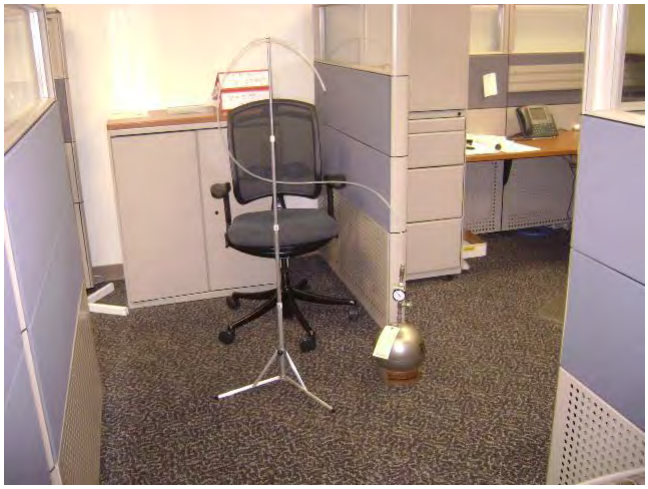
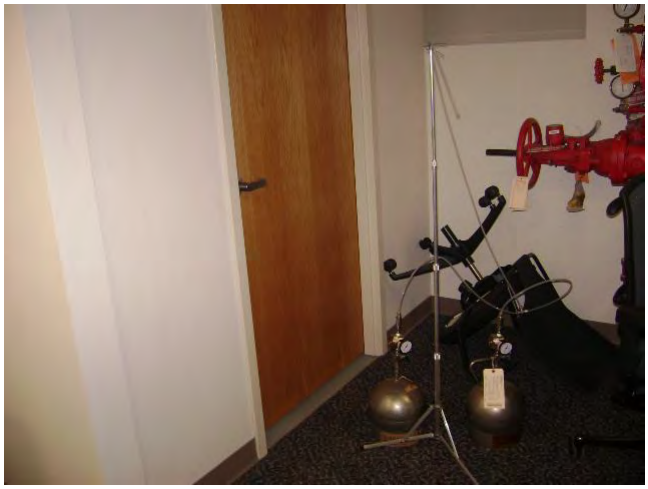
PHOTO #4 Building 4 - Crawlspace Sample No. B4CS-CS2-VOCs	
PHOTO #5 Building 4 – Main Level – Southeast Office Sample No. B4-IA1-VOCs	
PHOTO #6 Building 4 – Main Level – Southeast Office Sample No. B4-IA2-VOCs and Location of Duplicate Sample	

PHOTO #7 Building 4 – Exterior – Northwest Corner Sample No. B4-OA1-VOCs	
PHOTO #8 Building 4 – Exterior – Southeast Corner Sample No. B4-OA2-VOCs	

APPENDIX C

Field Logs

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B4CS-SS1-VOCs	Bld 4 - Crawl Space - Northeast Corner of Lower Level
Collection Date 4-15-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex

Sample Type (check one)	Workload (check one)	Building
X sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	4

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
☐ Blank ☐ Bulk ☐ Ceiling ☒ Grab ☐ Peak ☐ STEL ☐ TWA	X sub-slab ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	☐ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm~~ in Hg)	Avg. Temp (F)	RH (%)
	1927 on 4-15-11	2020 on 4-15-11	53	—	28.63	84.9	
	Total Runtime / Volume						

Sampling Equipment: Suma RA2206 Reg 7300950 (1hr)

Work shift Information	Shift: ~1 hr	Shift Start	Shift End	Total Minutes ~60

Factors that Could Modify Results of this Sample

Sample Comments

background - 0ppm Helium/Hydrogen Meter
0.0ppb PID
performed leak testing at ~1835
- 1st attempt >1100ppm - retighten all joints
- 2nd attempt at ~1350ppm - retighten all joints
- 3rd attempt at ~3400ppm - used new tedlar bag
- 4th attempt at >3500ppm - replaced tubing
- 5th attempt at ~250ppm - started at 150ppm
started at 1927 at 25 in Hg
stopped at 2020 - 4 in Hg on regulator
~~possib~~ replace point also prior to next sampling round

Photo 102-0088

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B4CS-SS2-VOCs	Bld 4 - Crawl Space - Southwest Corner of Lower Level
Collection Date 4-15-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex

Sample Type (check one)	Workload (check one)	Building
X sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	4

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
☐ Blank ☐ Bulk ☐ Ceiling ☒ Grab ☐ Peak ☐ STEL ☐ TWA	X sub-slab ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	☐ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	1953 on 4-15-11	2044 on 4-15-11	51	—	28.63	84.9	
	Total Runtime / Volume						

Sampling Equipment: Suma HL0939, Reg 7300957 (1hr)

Work shift Information	Shift: ~1 hr	Shift Start	Shift End	Total Minutes ~60

Factors that Could Modify Results of this Sample

Sample Comments

background - 0ppm Helium/Hydrogen Meter
0.0 ppb PID
performed leak testing at ~1930
1st attempt - 0.0 ppb on PID, 3.2 % Helium - ~~tight~~ thightened joints
2nd attempt - 3.1% Helium - tightened joints
3rd attempt - 13,000 ppm - ~~re-tighten joints~~
quickcrete in slab around port is loose - Per EPA run sample + re-install location for 3rd + 4th round of sampling
started sample at 1953 - 26 in Hg on reg
stopped sample at 2044 - 4 in Hg on reg

Photo 102-0089

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B4-OA1-VOCs	Bld 4 - Exterior - Northwest Corner of Building
Collection Date 4-15-11 + 4-16-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	**Workload (check one)** ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	**Sample Placement (check one)** ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	20:16 on 4-15-11	2016 on 4-16-11	1440	—	28.71		
	Total Runtime / Volume						
Work shift Information	Shift: 24hrs	Shift Start	Shift End	Total Minutes 1440			

Sampling Equipment
Suma RA2144
Reg 7301018 (24 hr)

Factors that Could Modify Results of this Sample

Sample Comments

started sample - opened regulator at 20:16 on 4/15/11
regulator reading 30 in Hg at start
ambient PID 0.00 ppm
validity check at 1030 on 4-16-11 - regulator at 18 in Hg
↳ truck parked by sampling location
validity check at 1718 ~~one~~ on 4-16-11 - regulator at 9 in Hg
↳ no truck
stopped at 2016 on 4-16-11 - regulator at 7 in Hg

photo # 102-0090 + 102-0097 (truck)

Field Sample Descriptions

Page ____ of ____

Field Sample ID B4-OA2-VOCs	**General Sample Location** Bld 4- Exterior- Southeast Corner of Building
Collection Date 4-15-11 + 4-16-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe **Workload (check one)** ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	**Building** 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA **Sample Placement (check one)** ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	**Exposure Estimate Method (check one)** ☐ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	20:19 on 4-15-11	2019 on 4-16-11	1440	—	28.70		
	Total Runtime / Volume						

Sampling Equipment
Suma RA2174
Reg 7342868 (24hr)

Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

Started sample - opened regulator at 20:19 on 4-15-11
regulator reading 28 in Hg at start
ambient PID 0.00 ppm
validity check at 1029 on 4-16-11 - regulator at 16 in Hg
↳ cars parked by sampling location
validity check at 1716 on 4-16-11 - regulator at 8 in Hg
stopped at 2019 on 4-16-11 - regulator at 6 in Hg

photo # 102-0091 + 102-0096 (cars)

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B4CS-CS1-VOCs	Bld 4 - Crawl Space - North End on Lower Level Between Sub-Slab Sample Points
Collection Date 4-15-11 + 4-16-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	**Workload (check one)** ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	**Sample Placement (check one)** ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	20:47 on 4-15-11	1942 on 4-16-11	~~1375~~ 1375	—	28.70		
	Total Runtime / Volume						
Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment
Suma RA2324
Reg 7343248 (24 hr)

Factors that Could Modify Results of this Sample

Sample Comments

started sample - opened regulator at 20:47 on 4-15-11
regulator reading 27 in Hg at start
ambient PID 0.00 ppm
validity check at 1027 on 4-16-11 - regulator at 13 in Hg
validity check at 1725 on 4-16-11 - regulator at 6 in Hg
stopped sample at 1942 on 4-16-11 - regulator at 4 in Hg

photo # 102 - 0094

Field Sample Descriptions

Page ____ of ____

Field Sample ID B4CS-CS2-VOCs	**General Sample Location** Bld 4 - Crawl Space - South End on Higher Level
Collection Date 4-15-11 + 4-16-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	**Workload (check one)** ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	**Sample Placement (check one)** ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	20:49 on 4-15-11	2049 on 4-16-11	1440	—	28.70		
	Total Runtime / Volume						

Sampling Equipment
Suma 5450
Reg 7299272 (24hr)

Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

Started sample - opened regulator at 20:49 on 4-15-11
regulator reading 30 at start
ambient PID 0.00 ppm
validity check at 1027 on 4-16-11 - regulator at 18 in Hg
validity check at 1725 on 4-16-11 - regulator at 10 in Hg
stopped at 2049 on 4-16-11 - regulator at 7 in Hg

photo 102-0095

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B4-IA1-VOCs	B104 - Main Level - Southeast Office Area - West Side
Collection Date	
4-15-11 + 4-16-11	
Collected By	**Facility**
WWK, CSC, TEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	4

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	~~2015~~ 2015 on 4-15-11	2051 on 4-16-11	1440	—	28.71		
	Total Runtime / Volume						

Sampling Equipment: Suma RA2342 Reg 7342987 (24hr)

Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

started sample - opened regulator at 2015 on 4-15-11
regulator reading 30 in Hg at start
ambient PID 0.00ppm
validity check at 1024 - regulator showing 18 in Hg
on 4-16-11
validity check at 1723 on 4-16-11 - regulator at 10 in Hg
stopped at 2051 on 4-16-11 - regulator at 6 in Hg

photo 102-0092

Field Sample Descriptions

Page ____ of ____

Field Sample ID B4- IA2-VOCs	**General Sample Location** Bld 4 - Main Level - Southeast Office Area - Northeast Corner
Collection Date 4-15-11 + 4-16-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	**Workload (check one)** ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	**Sample Placement (check one)** ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	20.53 on 4-15-11	2053 on 4-16-11	1440	—	28.71		
	Total Runtime / Volume						

Sampling Equipment
Suma RA2379
Reg 7343492 (24hr)

Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

started sample opened regulator at 20:53 on 4-15-11
regulator reading 30 in Hg. at start
ambient PID 0.00ppm
validity check at ~ 1025 on 4-16-11 - regulator at 15 in Hg
validity check at 1722 on 4-16-11 - regulator at 8 in Hg
stopped at 2053 on 4-16-11 - regulator at 5 in Hg

photo 102-0093

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B4-Dup-VOCs	Next to IAQ
Collection Date	
4-15-11 + 4-16-11	
Collected By	**Facility**
WWK, CSC, TEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	4

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	20:53 on 4-15-11	2053 on 4-16-11	1440	—			
	Total Runtime / Volume						

Sampling Equipment: Suma RA2227, Reg 549937 (24 hr)

Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

Started sample - opened regulator at 20:53 on 4-15-11
regulator reading > 30 in Hg at start
ambient PID 0.00 ppm
validity check at 1025 on 4-16-11 - regulator at 19 in Hg
validity check at ~~15~~ 1722 on 4-16-11 - regulator at 13 in Hg
stopped at 2053 on 4-16-11 - regulator at 9 in Hg

photo 102-0093

Field Sample Descriptions

Page ____ of ____

Field Sample ID B4-Blank-VOCs	**General Sample Location** —
Collection Date 4-15-11	
Collected By WWK, CSC, TEE	**Facility** Bannister Complex
Sample Type (check one) ☐ Area ☒ Blank ☐ Bulk ☐ Personal ☐ Wipe	**Workload (check one)** x Blank ☐ Light ☐ Normal ☐ Heavy ☐ Unknown	**Building** 4
Exposure Type (check one) ☒ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☐ TWA	**Sample Placement (check one)** x Blank ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	**Exposure Estimate Method (check one)** ☐ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	—	—	—	—			
					Sampling Equipment Suma RA2199		
	Total Runtime / Volume						
Work shift Information	Shift: —	Shift Start	Shift End	Total Minutes —			

Factors that Could Modify Results of this Sample

Sample Comments

APPENDIX D

Analytical Tables

Table 1
Analytical Data Summary - Sub-Slab Air VOCs
General Services Administration Bannister Federal Complex - Building 4
Kansas City, Missouri

Sample I.D.	B4CS-SS1-VOCs				B4CS-SS2-VOCs				Screening Levels	
	Sub-Slab Air Samples								Cancer Risk = 1E-06	Non-Cancer HQ = 0.1
Sample Date	1/7/2011		4/15/2011		1/7/2011		4/15/2011			
Chlorodifluoromethane	17.9		2.68	J	20.3		1.73	J	NE	175200
Dichlorodifluoromethane	2.04	J	2.54	J	2.03	J	2.42	J	NE	700
Chloromethane	0.437	J	0.823	J	0.818	J	1.32	J	NE	320
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND		ND		ND		NE	105120
Vinyl chloride	ND		ND		ND		ND		22	350
1,3-Butadiene	ND		ND		ND		ND		3.3	7
Butane	0.563	J	0.655	J	1.4	J	1.25	J	NE	2450
Bromomethane	ND		ND		ND		ND		NE	17.5
Chloroethane	ND		ND		ND		ND		NE	35040
Acetonitrile	0.193	J	ND		ND		0.323	J	NE	210
Trichlorofluoromethane	1.39	J	1.5	J	1.35	J	1.43	J	NE	2450
Acetone	47.7	B	15.2	B	49.1	B	40.2	B	NE	108620
Acrylonitrile	ND		ND		ND		ND		1.4	7
n-Pentane	3.58		0.245	J	9.5		1.34	J	NE	3500
Diethyl ether*	ND		ND		ND		ND		NE	NE
1,1-Dichloroethene	ND		ND		ND		ND		NE	8410
Methylene chloride	ND		0.283	J	ND		0.561	J	210	3500
Carbon disulfide	2.26	J	0.987	J	2.38	J	4.47		NE	2450
Allyl chloride*	ND		ND		ND		ND		NE	NE
1,1,2-Trichlorotrifluoroethane	ND		ND		ND		ND		NE	105120
trans-1,2-Dichloroethene	1.83	J	0.695	J	ND		ND		NE	210
1,1-Dichloroethane	ND		ND		ND		ND		61	70080
Methyl tert-Butyl Ether	ND		ND		ND		ND		380	10510
Vinyl acetate	0.619	J	ND		0.784	J	2.24	J	NE	700
2-Butanone (MEK)	2.84		2.11	J	3.37		3.96		NE	17520
cis-1,2-Dichloroethene	141	RA	82.2		48.8		23.6		NE	210
Hexane	ND		ND		0.562	J	0.298	J	NE	2450
Chloroform	ND		ND		ND		ND		4.3	340
1,2-Dichloroethane	ND		ND		ND		ND		3.8	NE
1,1,1-Trichloroethane	ND		ND		ND		ND		NE	17520
Benzene	0.422	J	0.337	J	0.502	J	0.457	J	13	110
Carbon tetrachloride	0.695	J	0.653	J	0.699	J	0.589	J	16	350
Cyclohexane	ND		ND		ND		ND		NE	21020
1,2-Dichloropropane	ND		ND		ND		ND		9.8	14
Bromodichloromethane	ND		ND		ND		ND		2.7	NE
Trichloroethene	4.27	J	3.14	J	1.41	J	ND		24	7
Heptane	ND		ND		ND		ND		NE	2450
cis-1,3-Dichloropropene	ND		ND		ND		ND		25	70
4-Methyl-2-pentanone (MIBK)	0.507	J	ND		0.802	J	0.761	J	NE	10510
trans-1,3-Dichloropropene	ND		ND		ND		ND		16	70
1,1,2-Trichloroethane	ND		ND		ND		ND		6.1	NE
Toluene	2.4	J	0.847	J	4.36		1.54	J	NE	17520
2-Hexanone	ND		0.562	J	ND		0.994	J	NE	110
Chlorodibromomethane	ND		ND		ND		ND		2.7	NE
1,2-Dibromoethane (EDB)	ND		ND		ND		ND		0.16	32
n-Octane	ND		ND		ND		ND		NE	2450
Tetrachloroethene	21.7		6.14	J	22.5		2.1	J	17	950
Chlorobenzene	ND		ND		ND		ND		NE	180
Ethylbenzene	ND		ND		0.879	J	ND		39	3500
m-Xylene & p-Xylene	ND		ND		2.97	J	ND		NE	350
Bromoform	ND		ND		ND		ND		89	NE
Styrene	6.6		0.336	J	6.68		0.658	J	NE	3500
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		1.7	NE
o-Xylene	0.442	J	ND		1.51	J	ND		NE	350
n-Nonane	ND		ND		ND		ND		NE	700
Isopropylbenzene	ND		ND		ND		ND		NE	1400
n-Propylbenzene	ND		ND		ND		ND		NE	3500
1,3,5-Trimethylbenzene	ND		ND		ND		ND		NE	25
1,2,4-Trimethylbenzene	0.485	J	ND		1.34	J	1.44	J	NE	25
Benzyl chloride	ND		ND		ND		ND		2	3.5
1,3-Dichlorobenzene	ND		ND		ND		ND		8.9	700
n-Decane	5.24	J	ND		34.9		5.08	J	NE	2450
1,4-Dichlorobenzene	ND		ND		ND		ND		8.9	2800
1,2-Dichlorobenzene	ND		ND		ND		ND		NE	700
n-Undecane	4.96	J	ND		44.5		11.8		NE	2450
1,2,4-Trichlorobenzene	ND		ND		ND		1.44	J, B	NE	7
Naphthalene	2.19	J	0.933	J, B	5.4		4.09	J, B	2.9	11
Hexachlorobutadiene	ND		ND		ND		ND		4.5	NE

Source: Test America, 2011

Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011.

TCE Screening Value derived from US EPA Memoradum dated October 12, 2011 to the General Services Administration, Bannister Federal Complex

Notes:

ug/m^3 = All air concentrations reported in micrograms per cubic meter
J = Indicates analyte not detected above the laboratory reporting limit.
NE = Not Established by the EPA
ND = Chemical was not detected above the laboratory method detection limit
B = Analyte was detected in the Method Blank
RA = Results are from a second analysis of the sample.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
HQ = Hazard Quotient
Concentration = Indicates identified concentration is greater than site specific cancer screening level
Concentration = Indicates identified concentration is greater than site specific non-cancer screening level
Concentration = Indicates identified concentration is greater than site specific cancer and non-cancer screening levels

Table 2
Analytical Data Summary - Crawlspace Air, Indoor Air and Outdoor Air VOCs - 2nd Quarter
General Services Administration Bannister Federal Complex - Building 4
Kansas City, Missouri

Sample I.D.	B4CS-CS1-VOCs		BCS-CS2-VOCs		B4-IA1-VOCs		B4-IA2-VOCs		B4-Dup-VOCs (B4-IA2-VOCs)		B4-OA1-VOCs		B4-OA2-VOCs		B4-Blank-VOCs		Screening Levels		Maximum Detection	Cancer Risk	Non-Cancer Risk
	Indoor, Crawlspace, and Outdoor Air Samples														Blank		Cancer Risk = 1E-06	Non-Cancer HQ = 0.1			
Sample Date	4/16/2011		4/16/2011		4/16/2011		4/16/2011		4/16/2011		4/16/2011		4/16/2011		4/15/2011						
Chlorodifluoromethane	1.62	J	1.43	J	1.49	J	1.37	J	1.52	J	0.996	J	1.01	J	ND		NE	17520	1.62	NE	9.25E-06
Dichlorodifluoromethane	2.88	J	2.72	J	2.87	J	2.67	J	2.78	J	2.81	J	2.81	J	ND		NE	70	2.88	NE	4.11E-03
Chloromethane	1.36	J	1.67	J	1.62	J	1.6	J	1.54	J	1.41	J	1.39	J	ND		NE	32	1.67	NE	5.22E-03
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	10512	ND	ND	ND
Vinyl chloride	ND		ND		ND		ND		ND		ND		ND		ND		2.2	35	ND	ND	ND
1,3-Butadiene	ND		ND		ND		ND		ND		ND		ND		ND		0.33	0.7	ND	ND	ND
Butane	0.782	J	0.925	J	0.902	J	0.963	J	0.911	J	0.709	J	0.701	J	ND		NE	245	0.963	NE	3.93E-04
Bromomethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	1.75	ND	ND	ND
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	3504	ND	ND	ND
Acetonitrile	0.184	J	ND		ND		ND		ND		ND		0.171	J	ND		NE	21	0.184	NE	8.76E-04
Trichlorofluoromethane	1.65	J	1.83	J	1.73	J	1.68	J	1.83	J	1.6	J	1.58	J	ND		NE	245	1.83	NE	7.47E-04
Acetone	15.6	B	14.5	B	7.76	B	7.76	B	7.74	B	5.85	B	6.16	B	0.249	J, B	NE	10862	15.6	NE	1.44E-04
Acrylonitrile	ND		ND		ND		ND		ND		ND		ND		ND		0.14	0.7	ND	ND	ND
n-Pentane	1.24	J	0.648	J	0.632	J	0.67	J	0.617	J	0.625	J	0.495	J	ND		NE	350	1.24	NE	3.54E-04
Diethyl ether*	ND		ND		ND		ND		ND		ND		ND		ND		NE	NE	ND	ND	ND
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		NE	841	ND	ND	ND
Methylene chloride	0.322	J	0.43	J	0.466	J	0.335	J	0.368	J	0.302	J	0.305	J	ND		21	350	0.466	2.22E-08	1.33E-04
Carbon disulfide	ND		ND		ND		ND		ND		ND		ND		ND		NE	245	ND	ND	ND
Allyl chloride*	ND		ND		ND		ND		ND		ND		ND		ND		NE	NE	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND		0.837	J	0.757	J	0.717	J	0.629	J	0.693	J	0.592	J	ND		NE	10512	0.837	NE	7.96E-06
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		NE	21	ND	ND	ND
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		6.1	7008	ND	ND	ND
Methyl tert-Butyl Ether	ND		ND		ND		ND		ND		ND		ND		ND		38	1051	ND	ND	ND
Vinyl acetate	ND		ND		ND		ND		ND		ND		ND		ND		NE	70	ND	ND	ND
2-Butanone (MEK)	1.55	J	1.55	J	0.696	J	0.797	J	0.743	J	0.767	J	0.772	J	ND		NE	1752	1.55	NE	8.85E-05
cis-1,2-Dichloroethene	3.13	J	3.51	J	ND		ND		ND		ND		ND		ND		NE	21	3.51	NE	1.67E-02
Hexane	0.254	J	ND		ND		ND		ND		ND		ND		ND		NE	245	0.254	NE	1.04E-04
Chloroform	ND		ND		ND		ND		ND		ND		ND		ND		0.43	34	ND	ND	ND
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.38	NE	ND	ND	ND
1,1,1-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	1752	ND	ND	ND
Benzene	0.326	J	0.374	J	0.308	J	0.28	J	0.289	J	0.272	J	0.255	J	ND		1.3	11	0.374	2.88E-07	3.40E-03
Carbon tetrachloride	0.583	J	0.632	J	0.59	J	0.564	J	0.62	J	0.621	J	0.643	J	ND		1.6	35	0.632	3.95E-07	1.81E-03
Cyclohexane	ND		ND		ND		ND		ND		ND		ND		ND		NE	2102	ND	ND	ND
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND		0.98	1.4	ND	ND	ND
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND		0.27	NE	ND	ND	ND
Trichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		2.4	0.7	ND	ND	ND
Heptane	ND		ND		ND		ND		ND		ND		ND		ND		NE	245	ND	ND	ND
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		2.5	7	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND		ND		ND		ND		ND		ND		ND		ND		NE	1051	ND	ND	ND
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		1.6	7	ND	ND	ND
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.61	NE	ND	ND	ND
Toluene	1.36	J	0.992	J	0.811	J	0.785	J	0.798	J	0.788	J	0.699	J	ND		NE	1752	1.36	NE	7.76E-05
2-Hexanone	0.39	J	0.326	J	ND		ND		ND		ND		ND		ND		NE	11	0.39	NE	3.55E-03
Chlorodibromomethane	ND		ND		ND		ND		ND		ND		ND		ND		0.27	NE	ND	ND	ND
1,2-Dibromoethane (EDB)	ND		ND		ND		ND		ND		ND		ND		ND		0.016	3.2	ND	ND	ND
n-Octane	ND		ND		ND		ND		ND		ND		ND		ND		NE	245	ND	ND	ND
Tetrachloroethene	0.879	J	ND		ND		ND		ND		ND		ND		ND		1.7	95	0.879	5.17E-07	9.25E-04
Chlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	18	ND	ND	ND
Ethylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		3.9	350	ND	ND	ND
m-Xylene & p-Xylene	ND		ND		ND		ND		ND		ND		ND		ND		NE	35	ND	ND	ND
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND		8.9	NE	ND	ND	ND
Styrene	0.942	J	ND		ND		ND		ND		ND		ND		ND		NE	350	0.942	NE	2.69E-04
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.17	NE	ND	ND	ND
o-Xylene	ND		ND		ND		ND		ND		ND		ND		ND		NE	35	ND	ND	ND
n-Nonane	ND		ND		ND		ND		ND		ND		ND		ND		NE	70	ND	ND	ND
Isopropylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	140	ND	ND	ND
n-Propylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	350	ND	ND	ND
1,3,5-Trimethylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	2.5	ND	ND	ND
1,2,4-Trimethylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	2.5	ND	ND	ND
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND		0.2	0.35	ND	ND	ND
1,3-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		0.89	70	ND	ND	ND
n-Decane	1.19	J	0.754	J	ND		ND		ND		ND		ND		ND		NE	245	1.19	NE	4.86E-04
1,4-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		0.89	280	ND	ND	ND
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	70	ND	ND	ND
n-Undecane	1.33	J	3.42	J	ND		ND		ND		ND		ND		ND		NE	245	3.42	NE	1.40E-03
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	0.7	ND	ND	ND
Naphthalene	ND		ND		ND		ND		ND		ND		ND		ND		0.29	1.1	ND	ND	ND
Hexachlorobutadiene	ND		ND		ND		ND		ND		ND		ND		ND		0.45	NE	ND	ND	ND
Total Cancer Health Risk (Unitless)	1.15E-06		7.03E-07		6.28E-07		5.84E-07		6.27E-07		6.12E-07		6.13E-07								
Total Non-Cancer Health Risk (Unitless)	3.64E-02		3.74E-02		1.52E-02		1.45E-02		1.48E-02		1.40E-02		1.46E-02								

Source: Test America, 2011
Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011.
TCE Screening Value derived from US EPA Memoradum dated October 12, 2011 to the General Services Administration, Bannister Federal Complex

Notes:

ug/m^3 = All air concentrations reported in micrograms per cubic meter
J = Indicates analyte not detected above the laboratory reporting limit.
NE = Not Established by the EPA
ND = Chemical was not detected above the laboratory method detection limit
B = Analyte was detected in the Method Blank
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
HQ = Hazard Quotient
Concentration = Indicates identified concentration is greater than site specific cancer screening level
Concentration = Indicates identified concentration is greater than site specific non-cancer screening level
Concentration = Indicates identified concentration is greater than site specific cancer and non-cancer screening levels
Cancer Risk = Indicates identified maximum concentration is greater than the cancer risk of 1x10^{-6}
Non-Cancer Risk = Indicates identified maximum concentration is greater than the non-cancer risk of 0.1

Table 3
Analytical Data Summary - Crawlspace VOCs - Short-Term Screening Levels
General Services Administration Bannister Federal Complex - Building 4
Kansas City, Missouri

Sample I.D.	B4CS-CS1-VOCs				B4CS-CS2-VOCs				Short-Term Screening Level
	Crawlspace Air Samples								(1-30 days)
Sample Date	1/7/2011		4/16/2011		1/7/2011		4/16/2011		
Chlorodifluoromethane	17.8		1.62	J	18.4		1.43	J	175200
Dichlorodifluoromethane	2.22	J	2.88	J	2.3	J	2.72	J	700
Chloromethane	0.98	J	1.36	J	0.968	J	1.67	J	414
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND		ND		ND		105120
Vinyl chloride	ND		ND		ND		ND		77
1,3-Butadiene	ND		ND		ND		ND		221
Butane	1.57	J	0.782	J	1.8	J	0.925	J	2000
Bromomethane	ND		ND		ND		ND		100
Chloroethane	ND		ND		ND		ND		4000
Acetonitrile	ND		0.184	J	ND		ND		210
Trichlorofluoromethane	1.56	J	1.65	J	1.61	J	1.83	J	2450
Acetone	20.8	B	15.6	B	24.1	B	14.5	B	30940
Acrylonitrile	ND		ND		ND		ND		217
n-Pentane	22.5		1.24	J	76.7		0.648	J	10000
Diethyl ether*	ND		ND		ND		ND		NE
1,1-Dichloroethene	ND		ND		ND		ND		70800
Methylene chloride	ND		0.322	J	ND		0.43	J	1041
Carbon disulfide	ND		ND		ND		ND		2450
Allyl chloride*	ND		ND		ND		ND		NE
1,1,2-Trichlorotrifluoroethane	ND		ND		ND		0.837	J	NE
trans-1,2-Dichloroethene	ND		ND		ND		ND		794
1,1-Dichloroethane	ND		ND		ND		ND		6.1
Methyl tert-Butyl Ether	ND		ND		ND		ND		2555
Vinyl acetate	0.526	J	ND		0.586	J	ND		35.2
2-Butanone (MEK)	1.6	J	1.55	J	2.03	J	1.55	J	17520
cis-1,2-Dichloroethene	14.8		3.13	J	13.9		3.51	J	794
Hexane	5.05		0.254	J	9.23		ND		2000
Chloroform	ND		ND		ND		ND		244
1,2-Dichloroethane	ND		ND		ND		ND		0.38
1,1,1-Trichloroethane	ND		ND		ND		ND		5000
Benzene	0.573	J	0.326	J	0.767	J	0.374	J	80
Carbon tetrachloride	0.714	J	0.583	J	0.704	J	0.632	J	189
Cyclohexane	ND		ND		ND		ND		21020
1,2-Dichloropropane	ND		ND		ND		ND		32
Bromodichloromethane	ND		ND		ND		ND		20
Trichloroethene	ND		ND		ND		ND		537
Heptane	ND		ND		ND		ND		2000
cis-1,3-Dichloropropene	ND		ND		ND		ND		36
4-Methyl-2-pentanone (MIBK)	ND		ND		ND		ND		10510
trans-1,3-Dichloropropene	ND		ND		ND		ND		36
1,1,2-Trichloroethane	ND		ND		ND		ND		0.61
Toluene	16		1.36	J	23.3		0.992	J	5000
2-Hexanone	ND		0.39	J	ND		0.326	J	110
Chlorodibromomethane	ND		ND		ND		ND		20
1,2-Dibromoethane (EDB)	ND		ND		ND		ND		0.016
n-Octane	ND		ND		0.66	J	ND		2000
Tetrachloroethene	ND		0.879	J	ND		ND		17
Chlorobenzene	ND		ND		ND		ND		500
Ethylbenzene	0.646	J	ND		1.05	J	ND		4340
m-Xylene & p-Xylene	ND		ND		ND		ND		2604
Bromoform	ND		ND		ND		ND		8.9
Styrene	15.8		0.942	J	28		ND		8520
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		0.17
o-Xylene	ND		ND		ND		ND		2604
n-Nonane	133		ND		129		ND		2000
Isopropylbenzene	ND		ND		ND		ND		1400
n-Propylbenzene	ND		ND		ND		ND		3500
1,3,5-Trimethylbenzene	ND		ND		ND		ND		10
1,2,4-Trimethylbenzene	ND		ND		ND		ND		100
Benzyl chloride	ND		ND		ND		ND		4
1,3-Dichlorobenzene	ND		ND		ND		ND		240
n-Decane	1.09	J	1.19	J	1.14	J	0.754	J	2000
1,4-Dichlorobenzene	ND		ND		ND		ND		240
1,2-Dichlorobenzene	ND		ND		ND		ND		240
n-Undecane	1.67	J	1.33	J	0.826	J	3.42	J	2000
1,2,4-Trichlorobenzene	ND		ND		ND		ND		20
Naphthalene	ND		ND		ND		ND		2.9
Hexachlorobutadiene	ND		ND		ND		ND		0.45

Source: Test America, 2011

Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011.

Notes:

ug/m^3 = All air concentrations reported in micrograms per cubic meter
J = Indicates analyte not detected above the laboratory reporting limit.
NE = Not Established by the EPA
NA = Not analyzed/Not applicable
ND = Chemical was not detected above the laboratory method detection limit
B = Analyte was deteded in the Method Blank
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds

Table 4
Analytical Data Summary - Crawlspace Air, Indoor Air and Outdoor Air VOCs - All Quarters
General Services Administration Bannister Federal Complex - Building 4
Kansas City, Missouri

Sample I.D.	B4CS-CS1-VOCs		BCS-CS2-VOCs		B4-IA1-VOCs		B4-IA2-VOCs		B4-Dup-VOCs (B4-IA2-VOCs)		B4-OA1-VOCs		B4-OA2-VOCs		B4-Blank-VOCs		Screening Levels		Maximum Detection
	Crawlspace Air Samples				Indoor Air Samples				Indoor Air Sample		Outdoor Air Samples				Blank		Cancer Risk = 1E-06	Non-Cancer HQ = 0.1	
Sample Date	1/7/2011	4/16/2011	1/7/2011	4/16/2011	1/7/2011	4/16/2011	1/7/2011	4/16/2011	1/7/2011	4/16/2011	1/7/2011	4/16/2011	1/7/2011	4/16/2011	1/7/2011	4/15/2011			
Chlorodifluoromethane	17.8	1.62 J	18.4	1.43 J	18.8	1.49 J	19.8	1.37 J	19.2	1.52 J	4.67	0.996 J	1.6	1.01 J	ND	ND	NE	17520	19.8
Dichlorodifluoromethane	2.22 J	2.88 J	2.3 J	2.72 J	2.21 J	2.87 J	2.31 J	2.67 J	2.27 J	2.78 J	2.46 J	2.81 J	2.16 J	2.81 J	ND	ND	NE	70	2.88
Chloromethane	0.98 J	1.36 J	0.968 J	1.67 J	0.921 J	1.62 J	0.917 J	1.6 J	0.914 J	1.54 J	0.947 J	1.41 J	0.857 J	1.39 J	ND	ND	NE	32	1.67
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 2	35	ND
1,3-Butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.7	ND
Butane	1.57 J	0.782 J	1.8 J	0.925 J	1.82 J	0.902 J	1.52 J	0.963 J	1.66 J	0.911 J	1.3 J	0.709 J	1.26 J	0.701 J	ND	ND	NE	245	1.82
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1.75	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	3504	ND
Acetonitrile	ND	0.184 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171 J	ND	ND	NE	21	0.184
Trichlorofluoromethane	1.56 J	1.65 J	1.61 J	1.83 J	1.49 J	1.73 J	1.61 J	1.68 J	1.57 J	1.83 J	1.61 J	1.6 J	1.42 J	1.58 J	ND	ND	NE	245	1.83
Acetone	20.8 B	15.6 B	24.1 B	14.5 B	10.1 B	7.76 B	9.29 B	7.76 B	10.4 B	7.74 B	5.04 B	5.85 B	3.81 B	6.16 B	0.149 J, B	0.249 J, B	NE	10862	24.1
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.7	ND
n-Pentane	22.5	1.24 J	76.7	0.648 J	62.6	0.632 J	35.5	0.67 J	37.1	0.617 J	19.7	0.625 J	22.2	0.495 J	ND	ND	NE	350	76.7
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	841	ND
Methylene chloride	ND	0.322 J	ND	0.43 J	ND	0.466 J	ND	0.335 J	0.291 J	0.368 J	ND	0.302 J	ND	0.305 J	ND	ND	21	350	0.466
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245	ND
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	0.837 J	ND	0.757 J	ND	0.717 J	ND	0.629 J	ND	0.693 J	ND	0.592 J	ND	ND	NE	10512	0 837
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	21	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	7008	ND
Methyl tert-Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38	1051	ND
Vinyl acetate	0.526 J	ND	0.586 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70	0 586
2-Butanone (MEK)	1.6 J	1.55 J	2.03 J	1.55 J	0.923 J	0.696 J	0.798 J	0.797 J	0.757 J	0.743 J	ND	0.767 J	0.5 J	0.772 J	ND	ND	NE	1752	2.03
cis-1,2-Dichloroethene	14.8	3.13 J	13.9	3.51 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	21	14.8
Hexane	5.05	0.254 J	9.23	ND	7.14	ND	3.99	ND	4.11	ND	0.437 J	ND	0.522 J	ND	ND	ND	NE	245	9.23
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	34	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	NE	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1752	ND
Benzene	0.573 J	0.326 J	0.767 J	0.374 J	0.609 J	0.308 J	0.404 J	0.28 J	0.414 J	0.289 J	0.314 J	0.272 J	0.316 J	0.255 J	ND	ND	1 3	11	0.767
Carbon tetrachloride	0.714 J	0.583 J	0.704 J	0.632 J	0.654 J	0.59 J	0.636 J	0.564 J	0.704 J	0.62 J	0.47 J	0.621 J	0.685 J	0.643 J	ND	ND	1 6	35	0.714
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2102	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	1.4	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	0.7	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 5	7	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1051	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 6	7	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	NE	ND
Toluene	16	1.36 J	23.3	0.992 J	17.6	0.811 J	14	0.785 J	14.5	0.798 J	2.25 J	0.788 J	2.28 J	0.699 J	ND	ND	NE	1752	23.3
2-Hexanone	ND	0.39 J	ND	0.326 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	11	0.39
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 016	3.2	ND
n-Octane	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245	0.66
Tetrachloroethene	ND	0.879 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	95	0 879
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	18	ND
Ethylbenzene	0.646 J	ND	1.05 J	ND	0.567 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 9	350	1.05
m-Xylene & p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	35	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8 9	NE	ND
Styrene	15.8	0.942 J	28	ND	12.6	ND	6.92	ND	6.78	ND	0.683 J	ND	0.808 J	ND	ND	ND	NE	350	28
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	NE	ND
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	35	ND
n-Nonane	***133***	ND	***129***	ND	0.65 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70	133
sopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	140	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	350	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2.5	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2.5	ND
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 2	0 35	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	70	ND
n-Decane	1.09 J	1.19 J	1.14 J	0.754 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245	1.19
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	280	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70	ND
n-Undecane	1.67 J	1.33 J	0.826 J	3.42 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245	3.42
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	0.7	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	1.1	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45	NE	ND
Total Cancer Health Risk (Unitless)	1.05E-06	1.15E-06	1.30E-06	7.03E-07	1.02E-06	6.28E-07	7.08E-07	5.84E-07	7.72E-07	6.27E-07	5.35E-07	6.12E-07	6.71E-07	6.13E-07					
Total Non-Cancer Health Risk (Unitless)	2.92E-01	3.64E-02	3.05E-01	3.74E-02	4.15E-02	1.52E-02	2.77E-02	1.45E-02	2.86E-02	1.48E-02	1.81E-02	1.40E-02	1.87E-02	1.46E-02					

Source: Test America, 2011
Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011.
TCE Screening Value derived from US EPA Memoradum dated October 12, 2011 to the General Services Administration, Bannister

Notes:

ug/m^3 = All air concentrations reported in micrograms per cubic meter
J = Indicates analyte not detected above the laboratory reporting limit.
NE = Not Established by the EPA
ND = Chemical was not detected above the laboratory method detection limit
B = Analyte was detected in the Method Blank
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
HQ = Hazard Quotient
Concentration = Indicates identified concentration is greater than site specific cancer screening level
Concentration = Indicates identified concentration is greater than site specific non-cancer screening level
Concentration = Indicates identified concentration is greater than site specific cancer and non-cancer screening levels
Cancer Risk = Indicates identified maximum concentration is greater than the cancer risk of 1x10^{-6}
Non-Cancer Risk = Indicates identified maximum concentration is greater than the non-cancer risk of 0.1

Table 5
Quality Control Data - Duplicate Air Sample Comparison - VOCs
General Services Administration Bannister Federal Complex - Building 4
Terracon Project No. 02107144

Sample I.D.	B4-IA2-VOCs	B4-Dup-VOCs (B4-IA2-VOCs)	RPD (%)
Sample Date	4/16/2011	4/16/2011	
Chlorodifluoromethane	1.37	1.52	10 38%
Dichlorodifluoromethane	2.67	2.78	4.04%
Chloromethane	1.6	1.54	3.82%
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	NC
Vinyl chloride	ND	ND	NC
1,3-Butadiene	ND	ND	NC
Butane	0 963	0 911	5.55%
Bromomethane	ND	ND	NC
Chloroethane	ND	ND	NC
Acetonitrile	ND	ND	NC
Trichlorofluoromethane	1.68	1.83	8.55%
Acetone	7.76	7.74	0.26%
Acrylonitrile	ND	ND	NC
n-Pentane	0.67	0 617	8.24%
Diethyl ether	ND	ND	NC
1,1-Dichloroethene	ND	ND	NC
Methylene chloride	0 335	0 368	9.39%
Carbon disulfide	ND	ND	NC
Allyl chloride	ND	ND	NC
1,1,2-Trichlorotrifluoroethane	0.717	0 629	13 08%
trans-1,2-Dichloroethene	ND	ND	NC
1,1-Dichloroethane	ND	ND	NC
Methyl tert-Butyl Ether	ND	ND	NC
Vinyl acetate	ND	ND	NC
2-Butanone (MEK)	0.797	0.743	7.01%
cis-1,2-Dichloroethene	ND	ND	NC
Hexane	ND	ND	NC
Chloroform	ND	ND	NC
1,2-Dichloroethane	ND	ND	NC
1,1,1-Trichloroethane	ND	ND	NC
Benzene	0.28	0 289	3.16%
Carbon tetrachloride	0 564	0.62	9.46%
Cyclohexane	ND	ND	NC
1,2-Dichloropropane	ND	ND	NC
Bromodichloromethane	ND	ND	NC
Trichloroethene	ND	ND	NC
Heptane	ND	ND	NC
cis-1,3-Dichloropropene	ND	ND	NC
4-Methyl-2-pentanone (M BK)	ND	ND	NC
trans-1,3-Dichloropropene	ND	ND	NC
1,1,2-Trichloroethane	ND	ND	NC
Toluene	0.785	0.798	1.64%
2-Hexanone	ND	ND	NC
Chlorodibromomethane	ND	ND	NC
1,2-Dibromoethane (EDB)	ND	ND	NC
n-Octane	ND	ND	NC
Tetrachloroethene	ND	ND	NC
Chlorobenzene	ND	ND	NC
Ethylbenzene	ND	ND	NC
m-Xylene & p-Xylene	ND	ND	NC
Bromoform	ND	ND	NC
Styrene	ND	ND	NC
1,1,2,2-Tetrachloroethane	ND	ND	NC
o-Xylene	ND	ND	NC
n-Nonane	ND	ND	NC
Isopropylbenzene	ND	ND	NC
n-Propylbenzene	ND	ND	NC
1,3,5-Trimethylbenzene	ND	ND	NC
1,2,4-Trimethylbenzene	ND	ND	NC
Benzyl chloride	ND	ND	NC
1,3-Dichlorobenzene	ND	ND	NC
n-Decane	ND	ND	NC
1,4-Dichlorobenzene	ND	ND	NC
1,2-Dichlorobenzene	ND	ND	NC
n-Undecane	ND	ND	NC
1,2,4-Trichlorobenzene	ND	ND	NC
Naphthalene	ND	ND	NC
Hexachlorobutadiene	ND	ND	NC

All concentrations provided in micrograms per cubic meter

RPD = Relative percent difference

NC = RPD not calculable due to concentrations below reporting limits

Shading = RPD above the project-specific goal of 20%

ND= Not detected above the laboratory method detection limit

APPENDIX E

Laboratory Analytical Reports

♦ **Data Package Contents** **AUD0201**

Report Copy(s)
- Chain of Custody
- Dilution Data (if applicable)

Initial Calibration Data
- Tune
- Quantitation Report
- Chromatogram

Data by Analytical Batch(s)
- Sequence of Analytical Batch
- Tune Tabulation
- Continuing Calibration Data
  - Quantitation Report
  - Chromatogram
- Laboratory Control Sample Data
  - Quantitation Report
  - Chromatogram
- Blank Data
  - Quantitation Report
  - Chromatogram
  - TICs (if applicable)
- Result Data in Analytical Batch Order
  - Quantitation Report
  - Chromatogram
  - TICs (if applicable)

Report Copy (s)

Analytical Report

Work Order: AUD0201

Project Description

Bannister Complex

For:

Wil W. King

Terracon Consulting Eng. & Scientists-Lenexa

13910 W 96th Terrace

Lenexa, KS 66215

Dane Wacasey

Project Manager

Dane.Wacasey@testamericainc.com

Tuesday, May 24, 2011

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: Reported:	04/19/11 09:30 05/24/11 16:31

May 24, 2011

LABORATORY REPORT

Client:
Terracon Consulting Eng. & Scientists-Lenexa
13910 W 96th Terrace
Lenexa, KS 66215
Attn: Wil W. King

Work Order:	AUD0201
Project Name:	Bannister Complex
Project Number:	[none]
Date Received:	04/19/11

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 512-244-0855.

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

This report contains results for the samples received under chain-of-custody by TestAmerica Laboratories, Inc. 4/19/2011 9:30:00 AM .

These samples are associated with your **Bannister Complex** project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method specified acceptance criteria except where flagged on the result pages or noted in the case narrative.

The low recoveries for carbon tetrachloride in the BS/BSD in batch 11E0095 are not indicative of a low sample bias for this compound due to a known bias in the standard as demonstrated by acceptable recovery in the CCV.

If you should have any questions, please feel free to contact me at
dane.wacasey@testamericainc.com or (512) 310-5284.

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.
EPA TO-12: Samples not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: Reported:	04/19/11 09:30 05/24/11 16:31

Approved By:

Dane Wacasey
Project Manager

NELAP Certification # T104704217-10-6

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SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION	MATRIX	CONTAINER TYPE
B4-IA1-VOCS	AUD0201-01	04/16/11 20:51	Air	Passivated Canister
B4-IA2-VOCS	AUD0201-02	04/16/11 20:53	Air	Passivated Canister
B4-OA1-VOCS	AUD0201-03	04/16/11 20:16	Air	Passivated Canister
B4-OA2-VOCS	AUD0201-04	04/16/11 20:19	Air	Passivated Canister
B4-DUP-VOCS	AUD0201-05	04/16/11 20:53	Air	Passivated Canister
B4-BLANK-VOCS	AUD0201-06	04/15/11 00:00	Air	Passivated Canister
B4CS-SS1-VOCS	AUD0201-07	04/15/11 20:20	Air	Passivated Canister
B4CS-SS2-VOCS	AUD0201-08	04/15/11 20:44	Air	Passivated Canister
B4CS-CS1-VOCS	AUD0201-09	04/16/11 19:42	Air	Passivated Canister
B4CS-CS2-VOCS	AUD0201-10	04/16/11 20:49	Air	Passivated Canister

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ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUD0201-01 (B4-IA1-VOCS - Air)							**Sampled: 04/16/11 20:51**			
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	**1.49**	J	ug/m³ Air	0 501	3 62	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.87**	J	ug/m³ Air	0 372	5 06	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Chloromethane	**1.62**	J	ug/m³ Air	0 128	2 11	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 526	7 16	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 183	2 62	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 147	2 27	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Butane	**0 902**	J	ug/m³ Air	0 158	2 43	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 295	3 98	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 142	2 70	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 145	1 72	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.73**	J	ug/m³ Air	0 423	5 75	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Acetone	**7.76**	B	ug/m³ Air	0 155	2 43	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 595	2 22	5 12	05/10/11 21:33	VMSC	KRW	11E0095
n-Pentane	**0.632**	J	ug/m³ Air	0 224	3 02	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 416	3 10	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 359	4 06	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Methylene chloride	**0.466**	J	ug/m³ Air	0 267	3 56	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 805	3 19	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 234	3 21	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	**0.757**	J	ug/m³ Air	0 582	7 85	5 12	05/10/11 21:33	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 583	4 06	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 308	4 15	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 505	3 69	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 13	3 61	5 12	05/10/11 21:33	VMSC	KRW	11E0095
2-Butanone (MEK)	**0.696**	J	ug/m³ Air	0 442	3 02	5 12	05/10/11 21:33	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 301	4 06	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 242	3 61	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 371	5 00	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 308	4 15	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 411	5 59	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Benzene	**0 308**	J	ug/m³ Air	0 183	3 27	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Carbon tetrachloride	**0 590**	J	ug/m³ Air	0 478	6 44	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 191	3 53	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 351	4 73	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 524	6 86	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 408	5 50	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 215	4 20	5 12	05/10/11 21:33	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 345	4 65	5 12	05/10/11 21:33	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 608	4 20	5 12	05/10/11 21:33	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 345	4 65	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 411	5 59	5 12	05/10/11 21:33	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-01 (B4-IA1-VOCS - Air) - cont. **Sampled: 04/16/11 20:51**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**0 811**	J	ug/m³ Air	0 286	3 86	5 12	05/10/11 21:33	VMSC	KRW	11E0095
2-Hexanone	ND		ug/m³ Air	0 212	4 20	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 667	8 72	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 584	7 87	5 12	05/10/11 21:33	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 359	4 78	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 515	6 95	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 353	4 71	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 330	4 45	5 12	05/10/11 21:33	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 660	8 89	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 809	10 6	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 324	4 36	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 522	7 03	5 12	05/10/11 21:33	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 330	4 45	5 12	05/10/11 21:33	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 399	5 37	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 723	5 03	5 12	05/10/11 21:33	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 377	5 03	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 374	5 03	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 374	5 03	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 41	5 30	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 453	6 16	5 12	05/10/11 21:33	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 442	5 96	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 457	6 16	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 453	6 16	5 12	05/10/11 21:33	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 258	6 55	5 12	05/10/11 21:33	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 545	7 60	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 632	5 37	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 817	10 9	5 12	05/10/11 21:33	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*102 %*						05/10/11 21:33	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*93 %*						05/10/11 21:33	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*94 %*						05/10/11 21:33	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*104 %*						05/10/11 21:33	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*99 %*						05/10/11 21:33	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-02 (B4-IA2-VOCS - Air) **Sampled: 04/16/11 20:53**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**1.37**	J	ug/m³ Air	0 481	3 48	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.67**	J	ug/m³ Air	0 358	4 87	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Chloromethane	**1.60**	J	ug/m³ Air	0 123	2 03	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 506	6 88	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 176	2 52	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 142	2 18	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Butane	**0 963**	J	ug/m³ Air	0 152	2 34	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 284	3 82	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 137	2 60	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 140	1 65	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.68**	J	ug/m³ Air	0 407	5 53	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Acetone	**7.76**	B	ug/m³ Air	0 149	2 34	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 572	2 14	4 92	05/10/11 22:36	VMSC	KRW	11E0095
n-Pentane	**0.670**	J	ug/m³ Air	0 216	2 91	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 400	2 98	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 345	3 90	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Methylene chloride	**0 335**	J	ug/m³ Air	0 256	3 42	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 774	3 07	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 225	3 08	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	**0.717**	J	ug/m³ Air	0 560	7 55	4 92	05/10/11 22:36	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 560	3 90	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 296	3 99	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 486	3 55	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 09	3 47	4 92	05/10/11 22:36	VMSC	KRW	11E0095
2-Butanone (MEK)	**0.797**	J	ug/m³ Air	0 425	2 90	4 92	05/10/11 22:36	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 290	3 90	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 233	3 47	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 357	4 81	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 296	3 99	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 395	5 37	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Benzene	**0.280**	J	ug/m³ Air	0 176	3 15	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Carbon tetrachloride	**0 564**	J	ug/m³ Air	0 460	6 19	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 184	3 39	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 338	4 55	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 504	6 60	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 393	5 29	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 207	4 04	4 92	05/10/11 22:36	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 332	4 47	4 92	05/10/11 22:36	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 585	4 03	4 92	05/10/11 22:36	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 332	4 47	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 395	5 37	4 92	05/10/11 22:36	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-02 (B4-IA2-VOCS - Air) - cont. **Sampled: 04/16/11 20:53**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**0.785**	J	ug/m³ Air	0 275	3 71	4 92	05/10/11 22:36	VMSC	KRW	11E0095
2-Hexanone	ND		ug/m³ Air	0 204	4 03	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 641	8 39	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 561	7 57	4 92	05/10/11 22:36	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 345	4 60	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 496	6 68	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 340	4 53	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 317	4 28	4 92	05/10/11 22:36	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 634	8 55	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 778	10 2	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 311	4 19	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 502	6 76	4 92	05/10/11 22:36	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 317	4 28	4 92	05/10/11 22:36	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 383	5 17	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 695	4 84	4 92	05/10/11 22:36	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 363	4 84	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 359	4 84	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 359	4 84	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 35	5 10	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 435	5 92	4 92	05/10/11 22:36	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 425	5 73	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 439	5 92	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 435	5 92	4 92	05/10/11 22:36	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 248	6 29	4 92	05/10/11 22:36	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 524	7 31	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 608	5 16	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 785	10 5	4 92	05/10/11 22:36	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*97 %*						05/10/11 22:36	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*91 %*						05/10/11 22:36	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*94 %*						05/10/11 22:36	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*103 %*						05/10/11 22:36	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*100 %*						05/10/11 22:36	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-03 (B4-OA1-VOCS - Air) **Sampled: 04/16/11 20:16**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**0 996**	J	ug/m³ Air	0 478	3 46	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.81**	J	ug/m³ Air	0 355	4 83	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Chloromethane	**1.41**	J	ug/m³ Air	0 122	2 02	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 502	6 83	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 174	2 50	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 141	2 16	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Butane	**0.709**	J	ug/m³ Air	0 151	2 32	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 282	3 80	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 136	2 58	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 139	1 64	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.60**	J	ug/m³ Air	0 404	5 49	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Acetone	**5.85**	B	ug/m³ Air	0 148	2 32	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 568	2 12	4 89	05/10/11 23:38	VMSC	KRW	11E0095
n-Pentane	**0.625**	J	ug/m³ Air	0 214	2 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 397	2 96	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 343	3 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Methylene chloride	**0 302**	J	ug/m³ Air	0 255	3 40	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 769	3 04	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 223	3 06	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	**0.693**	J	ug/m³ Air	0 556	7 49	4 89	05/10/11 23:38	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 556	3 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 294	3 96	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 482	3 52	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 08	3 44	4 89	05/10/11 23:38	VMSC	KRW	11E0095
2-Butanone (MEK)	**0.767**	J	ug/m³ Air	0 422	2 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 288	3 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 231	3 45	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 354	4 77	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 294	3 96	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 392	5 33	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Benzene	**0.272**	J	ug/m³ Air	0 175	3 12	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Carbon tetrachloride	**0.621**	J	ug/m³ Air	0 456	6 15	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 183	3 36	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 335	4 52	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 500	6 55	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 390	5 25	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 205	4 01	4 89	05/10/11 23:38	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 329	4 44	4 89	05/10/11 23:38	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 581	4 00	4 89	05/10/11 23:38	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 329	4 44	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 392	5 33	4 89	05/10/11 23:38	VMSC	KRW	11E0095

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Sample ID: AUD0201-03 (B4-OA1-VOCS - Air) - cont. **Sampled: 04/16/11 20:16**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**0.788**	J	ug/m³ Air	0 273	3 68	4 89	05/10/11 23:38	VMSC	KRW	11E0095
2-Hexanone	ND		ug/m³ Air	0 202	4 00	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 636	8 33	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 557	7 51	4 89	05/10/11 23:38	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 342	4 57	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 492	6 63	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 337	4 50	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 315	4 24	4 89	05/10/11 23:38	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 630	8 49	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 772	10 1	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 309	4 16	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 498	6 71	4 89	05/10/11 23:38	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 315	4 24	4 89	05/10/11 23:38	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 381	5 13	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 690	4 81	4 89	05/10/11 23:38	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 360	4 81	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 357	4 81	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 357	4 81	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 34	5 06	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 432	5 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 422	5 69	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 436	5 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 432	5 88	4 89	05/10/11 23:38	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 247	6 25	4 89	05/10/11 23:38	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 520	7 25	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 604	5 12	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 780	10 4	4 89	05/10/11 23:38	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*102 %*						05/10/11 23:38	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*90 %*						05/10/11 23:38	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*95 %*						05/10/11 23:38	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*106 %*						05/10/11 23:38	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*102 %*						05/10/11 23:38	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-04 (B4-OA2-VOCS - Air) **Sampled: 04/16/11 20:19**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**1.01**	J	ug/m³ Air	0 497	3 60	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.81**	J	ug/m³ Air	0 370	5 03	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Chloromethane	**1.39**	J	ug/m³ Air	0 127	2 10	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 522	7 11	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 181	2 60	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 146	2 25	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Butane	**0.701**	J	ug/m³ Air	0 157	2 42	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 293	3 95	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 141	2 68	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Acetonitrile	**0 171**	J	ug/m³ Air	0 144	1 71	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.58**	J	ug/m³ Air	0 420	5 71	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Acetone	**6.16**	B	ug/m³ Air	0 153	2 42	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 591	2 21	5 08	05/11/11 00:41	VMSC	KRW	11E0095
n-Pentane	**0.495**	J	ug/m³ Air	0 223	3 00	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 413	3 08	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 356	4 03	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Methylene chloride	**0 305**	J	ug/m³ Air	0 265	3 53	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 799	3 17	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 232	3 18	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	**0 592**	J	ug/m³ Air	0 578	7 79	5 08	05/11/11 00:41	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 579	4 03	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 305	4 11	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 502	3 67	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 13	3 58	5 08	05/11/11 00:41	VMSC	KRW	11E0095
2-Butanone (MEK)	**0.772**	J	ug/m³ Air	0 439	3 00	5 08	05/11/11 00:41	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 299	4 03	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 240	3 58	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 368	4 96	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 305	4 11	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 408	5 55	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Benzene	**0.255**	J	ug/m³ Air	0 182	3 25	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Carbon tetrachloride	**0.643**	J	ug/m³ Air	0 475	6 40	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 190	3 50	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 349	4 70	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 520	6 81	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 405	5 46	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 213	4 17	5 08	05/11/11 00:41	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 342	4 61	5 08	05/11/11 00:41	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 604	4 16	5 08	05/11/11 00:41	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 342	4 61	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 408	5 55	5 08	05/11/11 00:41	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-04 (B4-OA2-VOCS - Air) - cont. **Sampled: 04/16/11 20:19**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**0.699**	J	ug/m³ Air	0 284	3 83	5 08	05/11/11 00:41	VMSC	KRW	11E0095
2-Hexanone	ND		ug/m³ Air	0 211	4 16	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 662	8 66	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 580	7 81	5 08	05/11/11 00:41	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 356	4 75	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 512	6 90	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 351	4 68	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 328	4 41	5 08	05/11/11 00:41	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 655	8 83	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 803	10 5	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 321	4 33	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 518	6 98	5 08	05/11/11 00:41	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 328	4 41	5 08	05/11/11 00:41	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 396	5 33	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 717	5 00	5 08	05/11/11 00:41	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 375	5 00	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 371	5 00	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 371	5 00	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 40	5 26	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 449	6 11	5 08	05/11/11 00:41	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 439	5 92	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 454	6 11	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 449	6 11	5 08	05/11/11 00:41	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 256	6 50	5 08	05/11/11 00:41	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 541	7 55	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 628	5 33	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 811	10 8	5 08	05/11/11 00:41	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*102 %*						05/11/11 00:41	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*90 %*						05/11/11 00:41	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*96 %*						05/11/11 00:41	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*106 %*						05/11/11 00:41	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*101 %*						05/11/11 00:41	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-05 (B4-DUP-VOCS - Air) **Sampled: 04/16/11 20:53**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**1.52**	J	ug/m³ Air	0 518	3 75	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.78**	J	ug/m³ Air	0 385	5 24	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Chloromethane	**1.54**	J	ug/m³ Air	0 132	2 19	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 544	7 40	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 189	2 71	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 153	2 34	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Butane	**0 911**	J	ug/m³ Air	0 164	2 52	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 305	4 11	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 147	2 79	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 150	1 78	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.83**	J	ug/m³ Air	0 437	5 95	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Acetone	**7.74**	B	ug/m³ Air	0 160	2 52	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 615	2 30	5 3	05/11/11 01:43	VMSC	KRW	11E0095
n-Pentane	**0.617**	J	ug/m³ Air	0 232	3 13	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 430	3 21	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 371	4 20	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Methylene chloride	**0 368**	J	ug/m³ Air	0 276	3 68	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 833	3 30	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 242	3 31	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	**0.629**	J	ug/m³ Air	0 602	8 12	5 3	05/11/11 01:43	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 603	4 20	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 318	4 29	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 523	3 82	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 17	3 73	5 3	05/11/11 01:43	VMSC	KRW	11E0095
2-Butanone (MEK)	**0.743**	J	ug/m³ Air	0 457	3 12	5 3	05/11/11 01:43	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 312	4 20	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 250	3 73	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 384	5 17	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 318	4 29	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 425	5 78	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Benzene	**0.289**	J	ug/m³ Air	0 189	3 38	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Carbon tetrachloride	**0.620**	J	ug/m³ Air	0 494	6 66	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 198	3 65	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 363	4 89	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 542	7 10	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 422	5 69	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 222	4 34	5 3	05/11/11 01:43	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 357	4 81	5 3	05/11/11 01:43	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 629	4 34	5 3	05/11/11 01:43	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 357	4 81	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 425	5 78	5 3	05/11/11 01:43	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-05 (B4-DUP-VOCS - Air) - cont. **Sampled: 04/16/11 20:53**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**0.798**	J	ug/m³ Air	0 296	3 99	5 3	05/11/11 01:43	VMSC	KRW	11E0095
2-Hexanone	ND		ug/m³ Air	0 219	4 34	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 689	9 02	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 604	8 14	5 3	05/11/11 01:43	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 371	4 95	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 533	7 18	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 365	4 88	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 341	4 60	5 3	05/11/11 01:43	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 682	9 20	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 836	10 9	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 335	4 51	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 539	7 27	5 3	05/11/11 01:43	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 341	4 60	5 3	05/11/11 01:43	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 412	5 56	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 747	5 21	5 3	05/11/11 01:43	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 390	5 21	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 386	5 21	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 386	5 21	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 45	5 48	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 468	6 37	5 3	05/11/11 01:43	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 457	6 16	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 472	6 37	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 468	6 37	5 3	05/11/11 01:43	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 267	6 77	5 3	05/11/11 01:43	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 564	7 86	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 654	5 55	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 845	11 3	5 3	05/11/11 01:43	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*109 %*						05/11/11 01:43	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*89 %*						05/11/11 01:43	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*95 %*						05/11/11 01:43	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*106 %*						05/11/11 01:43	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*101 %*						05/11/11 01:43	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-06 (B4-BLANK-VOCS - Air) **Sampled: 04/15/11**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	ND		ug/m³ Air	0 196	1 41	2	05/11/11 03:47	VMSC	KRW	11E0095
Dichlorodifluoromethane	ND		ug/m³ Air	0 145	1 98	2	05/11/11 03:47	VMSC	KRW	11E0095
Chloromethane	ND		ug/m³ Air	0 0498	0 826	2	05/11/11 03:47	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 206	2 80	2	05/11/11 03:47	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 0713	1 02	2	05/11/11 03:47	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 0576	0 885	2	05/11/11 03:47	VMSC	KRW	11E0095
Butane	ND		ug/m³ Air	0 0618	0 951	2	05/11/11 03:47	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 115	1 55	2	05/11/11 03:47	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 0556	1 06	2	05/11/11 03:47	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 0567	0 672	2	05/11/11 03:47	VMSC	KRW	11E0095
Trichlorofluoromethane	ND		ug/m³ Air	0 165	2 25	2	05/11/11 03:47	VMSC	KRW	11E0095
Acetone	**0.249**	J, B	ug/m³ Air	0 0604	0 950	2	05/11/11 03:47	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 232	0 868	2	05/11/11 03:47	VMSC	KRW	11E0095
n-Pentane	ND		ug/m³ Air	0 0876	1 18	2	05/11/11 03:47	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 162	1 21	2	05/11/11 03:47	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 140	1 59	2	05/11/11 03:47	VMSC	KRW	11E0095
Methylene chloride	ND		ug/m³ Air	0 104	1 39	2	05/11/11 03:47	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 315	1 25	2	05/11/11 03:47	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 0913	1 25	2	05/11/11 03:47	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 227	3 07	2	05/11/11 03:47	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 228	1 59	2	05/11/11 03:47	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 120	1 62	2	05/11/11 03:47	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 197	1 44	2	05/11/11 03:47	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	0 443	1 41	2	05/11/11 03:47	VMSC	KRW	11E0095
2-Butanone (MEK)	ND		ug/m³ Air	0 173	1 18	2	05/11/11 03:47	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 118	1 59	2	05/11/11 03:47	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 0946	1 41	2	05/11/11 03:47	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 145	1 95	2	05/11/11 03:47	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 120	1 62	2	05/11/11 03:47	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 160	2 18	2	05/11/11 03:47	VMSC	KRW	11E0095
Benzene	ND		ug/m³ Air	0 0716	1 28	2	05/11/11 03:47	VMSC	KRW	11E0095
Carbon tetrachloride	ND		ug/m³ Air	0 187	2 52	2	05/11/11 03:47	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 0748	1 38	2	05/11/11 03:47	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 137	1 85	2	05/11/11 03:47	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 205	2 68	2	05/11/11 03:47	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 159	2 15	2	05/11/11 03:47	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 0839	1 64	2	05/11/11 03:47	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 135	1 82	2	05/11/11 03:47	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 238	1 64	2	05/11/11 03:47	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 135	1 82	2	05/11/11 03:47	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 160	2 18	2	05/11/11 03:47	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-06 (B4-BLANK-VOCS - Air) - cont. **Sampled: 04/15/11**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	ND		ug/m³ Air	0 112	1 51	2	05/11/11 03:47	VMSC	KRW	11E0095
2-Hexanone	ND		ug/m³ Air	0 0828	1 64	2	05/11/11 03:47	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 260	3 41	2	05/11/11 03:47	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 228	3 07	2	05/11/11 03:47	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 140	1 87	2	05/11/11 03:47	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 201	2 71	2	05/11/11 03:47	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 138	1 84	2	05/11/11 03:47	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 129	1 74	2	05/11/11 03:47	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 258	3 47	2	05/11/11 03:47	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 316	4 13	2	05/11/11 03:47	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 126	1 70	2	05/11/11 03:47	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 204	2 75	2	05/11/11 03:47	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 129	1 74	2	05/11/11 03:47	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 156	2 10	2	05/11/11 03:47	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 282	1 97	2	05/11/11 03:47	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 147	1 97	2	05/11/11 03:47	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 146	1 97	2	05/11/11 03:47	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 146	1 97	2	05/11/11 03:47	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	0 549	2 07	2	05/11/11 03:47	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 177	2 40	2	05/11/11 03:47	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 173	2 33	2	05/11/11 03:47	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 178	2 40	2	05/11/11 03:47	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 177	2 40	2	05/11/11 03:47	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 101	2 56	2	05/11/11 03:47	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 213	2 97	2	05/11/11 03:47	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 247	2 10	2	05/11/11 03:47	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 319	4 27	2	05/11/11 03:47	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*109 %*						05/11/11 03:47	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*94 %*						05/11/11 03:47	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*97 %*						05/11/11 03:47	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*104 %*						05/11/11 03:47	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*100 %*						05/11/11 03:47	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-07 (B4CS-SS1-VOCS - Air) **Sampled: 04/15/11 20:20**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**2.68**	J	ug/m³ Air	0 518	3 75	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.54**	J	ug/m³ Air	0 385	5 24	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Chloromethane	**0 823**	J	ug/m³ Air	0 132	2 19	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 545	7 41	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 189	2 71	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 153	2 34	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Butane	**0.655**	J	ug/m³ Air	0 164	2 52	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 305	4 12	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 147	2 80	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 150	1 78	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.50**	J	ug/m³ Air	0 438	5 95	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Acetone	**15.2**	B	ug/m³ Air	0 160	2 52	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 616	2 30	5 3	05/11/11 04:49	VMSC	KRW	11E0095
n-Pentane	**0.245**	J	ug/m³ Air	0 232	3 13	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 430	3 21	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 371	4 20	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Methylene chloride	**0.283**	J	ug/m³ Air	0 276	3 68	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Carbon disulfide	**0 987**	J	ug/m³ Air	0 833	3 30	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 242	3 32	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 603	8 12	5 3	05/11/11 04:49	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	**0.695**	J	ug/m³ Air	0 603	4 20	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 318	4 29	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 523	3 82	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 17	3 73	5 3	05/11/11 04:49	VMSC	KRW	11E0095
2-Butanone (MEK)	**2.11**	J	ug/m³ Air	0 457	3 13	5 3	05/11/11 04:49	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	**82.2**		ug/m³ Air	0 312	4 20	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 251	3 74	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 384	5 17	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 318	4 29	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 425	5 78	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Benzene	**0 337**	J	ug/m³ Air	0 190	3 39	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Carbon tetrachloride	**0.653**	J	ug/m³ Air	0 495	6 67	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 198	3 65	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 363	4 90	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 543	7 10	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Trichloroethene	**3.14**	J	ug/m³ Air	0 423	5 69	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 222	4 34	5 3	05/11/11 04:49	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 357	4 81	5 3	05/11/11 04:49	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 629	4 34	5 3	05/11/11 04:49	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 357	4 81	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 425	5 78	5 3	05/11/11 04:49	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-07 (B4CS-SS1-VOCS - Air) - cont. **Sampled: 04/15/11 20:20**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**0 847**	J	ug/m³ Air	0 296	3 99	5 3	05/11/11 04:49	VMSC	KRW	11E0095
2-Hexanone	**0 562**	J	ug/m³ Air	0 219	4 34	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 690	9 03	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 604	8 14	5 3	05/11/11 04:49	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 371	4 95	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Tetrachloroethene	**6.14**	J	ug/m³ Air	0 533	7 19	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 366	4 88	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 341	4 60	5 3	05/11/11 04:49	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 683	9 20	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 837	11 0	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Styrene	**0 336**	J	ug/m³ Air	0 335	4 51	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 540	7 28	5 3	05/11/11 04:49	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 341	4 60	5 3	05/11/11 04:49	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 412	5 56	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 748	5 21	5 3	05/11/11 04:49	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 390	5 21	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 387	5 21	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 387	5 21	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 45	5 49	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 468	6 37	5 3	05/11/11 04:49	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 458	6 17	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 473	6 37	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 468	6 37	5 3	05/11/11 04:49	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 267	6 77	5 3	05/11/11 04:49	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 564	7 86	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Naphthalene	**0 933**	J, B	ug/m³ Air	0 654	5 56	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 845	11 3	5 3	05/11/11 04:49	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*108 %*						05/11/11 04:49	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*87 %*						05/11/11 04:49	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*96 %*						05/11/11 04:49	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*104 %*						05/11/11 04:49	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*99 %*						05/11/11 04:49	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-08 (B4CS-SS2-VOCS - Air) **Sampled: 04/15/11 20:44**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**1.73**	J	ug/m³ Air	0 526	3 81	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Dichlorodifluoromethane	**2.42**	J	ug/m³ Air	0 391	5 32	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Chloromethane	**1.32**	J	ug/m³ Air	0 134	2 22	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 553	7 52	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Vinyl chloride	ND		ug/m³ Air	0 192	2 75	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,3-Butadiene	ND		ug/m³ Air	0 155	2 38	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Butane	**1.25**	J	ug/m³ Air	0 166	2 56	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Bromomethane	ND		ug/m³ Air	0 310	4 18	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Chloroethane	ND		ug/m³ Air	0 150	2 84	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Acetonitrile	**0 323**	J	ug/m³ Air	0 153	1 81	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Trichlorofluoromethane	**1.43**	J	ug/m³ Air	0 444	6 05	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Acetone	**40.2**	B	ug/m³ Air	0 162	2 56	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Acrylonitrile	ND		ug/m³ Air	0 625	2 34	5 38	05/11/11 17:35	VMSC	KRW	11E0119
n-Pentane	**1.34**	J	ug/m³ Air	0 236	3 18	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Diethyl ether	ND		ug/m³ Air	0 437	3 26	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,1-Dichloroethene	ND		ug/m³ Air	0 377	4 27	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Methylene chloride	**0 561**	J	ug/m³ Air	0 280	3 74	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Carbon disulfide	**4.47**		ug/m³ Air	0 846	3 35	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Allyl chloride	ND		ug/m³ Air	0 246	3 37	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 612	8 25	5 38	05/11/11 17:35	VMSC	KRW	11E0119
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 613	4 27	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,1-Dichloroethane	ND		ug/m³ Air	0 323	4 36	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 531	3 88	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Vinyl acetate	**2.24**	J	ug/m³ Air	1 19	3 79	5 38	05/11/11 17:35	VMSC	KRW	11E0119
2-Butanone (MEK)	**3.96**		ug/m³ Air	0 465	3 17	5 38	05/11/11 17:35	VMSC	KRW	11E0119
cis-1,2-Dichloroethene	**23.6**		ug/m³ Air	0 317	4 27	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Hexane	**0.298**	J	ug/m³ Air	0 255	3 79	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Chloroform	ND		ug/m³ Air	0 390	5 26	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,2-Dichloroethane	ND		ug/m³ Air	0 323	4 36	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,1,1-Trichloroethane	ND		ug/m³ Air	0 432	5 87	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Benzene	**0.457**	J	ug/m³ Air	0 193	3 44	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Carbon tetrachloride	**0 589**	J	ug/m³ Air	0 502	6 77	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Cyclohexane	ND		ug/m³ Air	0 201	3 70	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,2-Dichloropropane	ND		ug/m³ Air	0 369	4 97	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Bromodichloromethane	ND		ug/m³ Air	0 551	7 21	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Trichloroethene	ND		ug/m³ Air	0 429	5 78	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Heptane	ND		ug/m³ Air	0 226	4 41	5 38	05/11/11 17:35	VMSC	KRW	11E0119
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 362	4 89	5 38	05/11/11 17:35	VMSC	KRW	11E0119
4-Methyl-2-pentanone (MIBK)	**0.761**	J	ug/m³ Air	0 639	4 41	5 38	05/11/11 17:35	VMSC	KRW	11E0119
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 362	4 89	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,1,2-Trichloroethane	ND		ug/m³ Air	0 432	5 87	5 38	05/11/11 17:35	VMSC	KRW	11E0119

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ANALYTICAL REPORT

Sample ID: AUD0201-08 (B4CS-SS2-VOCS - Air) - cont. **Sampled: 04/15/11 20:44**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**1.54**	J	ug/m³ Air	0 301	4 06	5 38	05/11/11 17:35	VMSC	KRW	11E0119
2-Hexanone	**0 994**	J	ug/m³ Air	0 223	4 41	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Chlorodibromomethane	ND		ug/m³ Air	0 701	9 17	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 614	8 27	5 38	05/11/11 17:35	VMSC	KRW	11E0119
n-Octane	ND		ug/m³ Air	0 377	5 03	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Tetrachloroethene	**2.10**	J	ug/m³ Air	0 542	7 30	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Chlorobenzene	ND		ug/m³ Air	0 371	4 96	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Ethylbenzene	ND		ug/m³ Air	0 347	4 67	5 38	05/11/11 17:35	VMSC	KRW	11E0119
m-Xylene & p-Xylene	ND		ug/m³ Air	0 694	9 35	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Bromoform	ND		ug/m³ Air	0 850	11 1	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Styrene	**0.658**	J	ug/m³ Air	0 340	4 58	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 548	7 39	5 38	05/11/11 17:35	VMSC	KRW	11E0119
o-Xylene	ND		ug/m³ Air	0 347	4 67	5 38	05/11/11 17:35	VMSC	KRW	11E0119
n-Nonane	ND		ug/m³ Air	0 419	5 65	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Isopropylbenzene	ND		ug/m³ Air	0 760	5 29	5 38	05/11/11 17:35	VMSC	KRW	11E0119
n-Propylbenzene	ND		ug/m³ Air	0 397	5 29	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 393	5 29	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,2,4-Trimethylbenzene	**1.44**	J	ug/m³ Air	0 393	5 29	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Benzyl chloride	ND		ug/m³ Air	1 48	5 57	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,3-Dichlorobenzene	ND		ug/m³ Air	0 476	6 47	5 38	05/11/11 17:35	VMSC	KRW	11E0119
n-Decane	**5.08**	J	ug/m³ Air	0 465	6 26	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,4-Dichlorobenzene	ND		ug/m³ Air	0 480	6 47	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,2-Dichlorobenzene	ND		ug/m³ Air	0 476	6 47	5 38	05/11/11 17:35	VMSC	KRW	11E0119
n-Undecane	**11.8**		ug/m³ Air	0 271	6 88	5 38	05/11/11 17:35	VMSC	KRW	11E0119
1,2,4-Trichlorobenzene	**1.44**	J, B	ug/m³ Air	0 573	7 99	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Naphthalene	**4.09**	J, B	ug/m³ Air	0 665	5 64	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Hexachlorobutadiene	ND		ug/m³ Air	0 859	11 5	5 38	05/11/11 17:35	VMSC	KRW	11E0119
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*104 %*						05/11/11 17:35	VMSC	KRW	11E0119
Surr: Fluorobenzene (62-122%)	*95 %*						05/11/11 17:35	VMSC	KRW	11E0119
Surr: Toluene-d8 (67-127%)	*96 %*						05/11/11 17:35	VMSC	KRW	11E0119
Surr: 1,4-Dichlorobutane (76-136%)	*98 %*						05/11/11 17:35	VMSC	KRW	11E0119
Surr: 4-Bromofluorobenzene (73-133%)	*95 %*						05/11/11 17:35	VMSC	KRW	11E0119

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ANALYTICAL REPORT

Sample ID: AUD0201-09 (B4CS-CS1-VOCS - Air) **Sampled: 04/16/11 19:42**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**1.62**	J	ug/m³ Air	0 517	3 74	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.88**	J	ug/m³ Air	0 385	5 23	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Chloromethane	**1.36**	J	ug/m³ Air	0 132	2 19	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 544	7 40	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 189	2 71	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 152	2 34	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Butane	**0.782**	J	ug/m³ Air	0 164	2 52	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 305	4 11	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 147	2 79	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Acetonitrile	**0 184**	J	ug/m³ Air	0 150	1 78	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.65**	J	ug/m³ Air	0 437	5 95	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Acetone	**15.6**	B	ug/m³ Air	0 160	2 51	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 615	2 30	5 29	05/11/11 06:54	VMSC	KRW	11E0095
n-Pentane	**1.24**	J	ug/m³ Air	0 232	3 12	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 430	3 21	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 371	4 20	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Methylene chloride	**0 322**	J	ug/m³ Air	0 276	3 68	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 832	3 30	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 241	3 31	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 602	8 11	5 29	05/11/11 06:54	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 602	4 20	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 318	4 28	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 522	3 82	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 17	3 73	5 29	05/11/11 06:54	VMSC	KRW	11E0095
2-Butanone (MEK)	**1.55**	J	ug/m³ Air	0 457	3 12	5 29	05/11/11 06:54	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	**3.13**	J	ug/m³ Air	0 311	4 20	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Hexane	**0.254**	J	ug/m³ Air	0 250	3 73	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 383	5 17	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 318	4 28	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 424	5 77	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Benzene	**0 326**	J	ug/m³ Air	0 189	3 38	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Carbon tetrachloride	**0 583**	J	ug/m³ Air	0 494	6 66	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 198	3 64	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 363	4 89	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 542	7 09	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 422	5 69	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 222	4 34	5 29	05/11/11 06:54	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 356	4 80	5 29	05/11/11 06:54	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 629	4 34	5 29	05/11/11 06:54	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 356	4 80	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 424	5 77	5 29	05/11/11 06:54	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-09 (B4CS-CS1-VOCS - Air) - cont. **Sampled: 04/16/11 19:42**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**1.36**	J	ug/m³ Air	0 296	3 99	5 29	05/11/11 06:54	VMSC	KRW	11E0095
2-Hexanone	**0 390**	J	ug/m³ Air	0 219	4 34	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 689	9 02	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 603	8 13	5 29	05/11/11 06:54	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 371	4 94	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Tetrachloroethene	**0 879**	J	ug/m³ Air	0 533	7 18	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 365	4 87	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 341	4 60	5 29	05/11/11 06:54	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 682	9 19	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 836	10 9	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Styrene	**0 942**	J	ug/m³ Air	0 335	4 51	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 539	7 27	5 29	05/11/11 06:54	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 341	4 60	5 29	05/11/11 06:54	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 412	5 55	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 747	5 20	5 29	05/11/11 06:54	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 390	5 20	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 386	5 20	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 386	5 20	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 45	5 48	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 468	6 36	5 29	05/11/11 06:54	VMSC	KRW	11E0095
n-Decane	**1.19**	J	ug/m³ Air	0 457	6 16	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 472	6 36	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 468	6 36	5 29	05/11/11 06:54	VMSC	KRW	11E0095
n-Undecane	**1.33**	J	ug/m³ Air	0 267	6 77	5 29	05/11/11 06:54	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 563	7 85	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 654	5 55	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 844	11 3	5 29	05/11/11 06:54	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*112 %*						05/11/11 06:54	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*88 %*						05/11/11 06:54	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*98 %*						05/11/11 06:54	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*104 %*						05/11/11 06:54	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*101 %*						05/11/11 06:54	VMSC	KRW	11E0095

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ANALYTICAL REPORT

Sample ID: AUD0201-10 (B4CS-CS2-VOCS - Air) **Sampled: 04/16/11 20:49**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**1.43**	J	ug/m³ Air	0 509	3 68	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Dichlorodifluoromethane	**2.72**	J	ug/m³ Air	0 378	5 15	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Chloromethane	**1.67**	J	ug/m³ Air	0 130	2 15	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 535	7 27	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 186	2 66	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 150	2 30	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Butane	**0 925**	J	ug/m³ Air	0 161	2 47	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 300	4 04	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 145	2 75	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 148	1 75	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Trichlorofluoromethane	**1.83**	J	ug/m³ Air	0 430	5 85	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Acetone	**14.5**	B	ug/m³ Air	0 157	2 47	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 604	2 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
n-Pentane	**0.648**	J	ug/m³ Air	0 228	3 07	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 423	3 15	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 365	4 13	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Methylene chloride	**0.430**	J	ug/m³ Air	0 271	3 61	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 818	3 24	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 237	3 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	**0 837**	J	ug/m³ Air	0 592	7 98	5 2	05/11/11 07:56	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 592	4 13	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 313	4 21	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 513	3 75	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	1 15	3 66	5 2	05/11/11 07:56	VMSC	KRW	11E0095
2-Butanone (MEK)	**1.55**	J	ug/m³ Air	0 449	3 07	5 2	05/11/11 07:56	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	**3.51**	J	ug/m³ Air	0 306	4 13	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 246	3 67	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 377	5 08	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 313	4 21	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 417	5 68	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Benzene	**0 374**	J	ug/m³ Air	0 186	3 32	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Carbon tetrachloride	**0.632**	J	ug/m³ Air	0 486	6 55	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 195	3 58	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 357	4 81	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 533	6 97	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 415	5 59	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 218	4 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 350	4 72	5 2	05/11/11 07:56	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 618	4 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 350	4 72	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 417	5 68	5 2	05/11/11 07:56	VMSC	KRW	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUD0201 Project: Bannister Complex Project Number: [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31	

ANALYTICAL REPORT

Sample ID: AUD0201-10 (B4CS-CS2-VOCS - Air) - cont. **Sampled: 04/16/11 20:49**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Toluene	**0 992**	J	ug/m³ Air	0 291	3 92	5 2	05/11/11 07:56	VMSC	KRW	11E0095
2-Hexanone	**0 326**	J	ug/m³ Air	0 216	4 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 677	8 87	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 593	8 00	5 2	05/11/11 07:56	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 364	4 86	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 524	7 06	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 359	4 79	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 335	4 52	5 2	05/11/11 07:56	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 671	9 04	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 822	10 8	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 329	4 43	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 530	7 14	5 2	05/11/11 07:56	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 335	4 52	5 2	05/11/11 07:56	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 405	5 46	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 734	5 12	5 2	05/11/11 07:56	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 383	5 12	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 380	5 12	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 380	5 12	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	1 43	5 39	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,3-Dichlorobenzene	ND		ug/m³ Air	0 460	6 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
n-Decane	**0.754**	J	ug/m³ Air	0 449	6 06	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,4-Dichlorobenzene	ND		ug/m³ Air	0 464	6 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,2-Dichlorobenzene	ND		ug/m³ Air	0 460	6 26	5 2	05/11/11 07:56	VMSC	KRW	11E0095
n-Undecane	**3.42**	J	ug/m³ Air	0 262	6 65	5 2	05/11/11 07:56	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 554	7 72	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Naphthalene	ND		ug/m³ Air	0 643	5 46	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Hexachlorobutadiene	ND		ug/m³ Air	0 830	11 1	5 2	05/11/11 07:56	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*111 %*						05/11/11 07:56	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*91 %*						05/11/11 07:56	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*93 %*						05/11/11 07:56	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*101 %*						05/11/11 07:56	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*98 %*						05/11/11 07:56	VMSC	KRW	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11E0095-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0 196	1 41	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Dichlorodifluoromethane	ND		ug/m³ Air	0 145	1 98	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Chloromethane	ND		ug/m³ Air	0 0498	0 826	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 206	2 80	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Vinyl chloride	ND		ug/m³ Air	0 0713	1 02	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,3-Butadiene	ND		ug/m³ Air	0 0576	0 885	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Butane	ND		ug/m³ Air	0 0618	0 951	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Bromomethane	ND		ug/m³ Air	0 115	1 55	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Chloroethane	ND		ug/m³ Air	0 0556	1 06	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Acetonitrile	ND		ug/m³ Air	0 0567	0 672	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Trichlorofluoromethane	ND		ug/m³ Air	0 165	2 25	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Acetone	**0.268**	**J**	ug/m³ Air	0 0604	0 950	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Acrylonitrile	ND		ug/m³ Air	0 232	0 868	2 00	05/10/11 15:26	VMSC	KRW	11E0095
n-Pentane	ND		ug/m³ Air	0 0876	1 18	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Diethyl ether	ND		ug/m³ Air	0 162	1 21	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,1-Dichloroethene	ND		ug/m³ Air	0 140	1 59	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Methylene chloride	ND		ug/m³ Air	0 104	1 39	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Carbon disulfide	ND		ug/m³ Air	0 315	1 25	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Allyl chloride	ND		ug/m³ Air	0 0913	1 25	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 227	3 07	2 00	05/10/11 15:26	VMSC	KRW	11E0095
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 228	1 59	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,1-Dichloroethane	ND		ug/m³ Air	0 120	1 62	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 197	1 44	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Vinyl acetate	ND		ug/m³ Air	0 443	1 41	2 00	05/10/11 15:26	VMSC	KRW	11E0095
2-Butanone (MEK)	ND		ug/m³ Air	0 173	1 18	2 00	05/10/11 15:26	VMSC	KRW	11E0095
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 118	1 59	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Hexane	ND		ug/m³ Air	0 0946	1 41	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Chloroform	ND		ug/m³ Air	0 145	1 95	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,2-Dichloroethane	ND		ug/m³ Air	0 120	1 62	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,1,1-Trichloroethane	ND		ug/m³ Air	0 160	2 18	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Benzene	ND		ug/m³ Air	0 0716	1 28	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Carbon tetrachloride	ND		ug/m³ Air	0 187	2 52	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Cyclohexane	ND		ug/m³ Air	0 0748	1 38	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,2-Dichloropropane	ND		ug/m³ Air	0 137	1 85	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Bromodichloromethane	ND		ug/m³ Air	0 205	2 68	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Trichloroethene	ND		ug/m³ Air	0 159	2 15	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Heptane	ND		ug/m³ Air	0 0839	1 64	2 00	05/10/11 15:26	VMSC	KRW	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUD0201 Project: Bannister Complex Project Number: [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31	

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11E0095-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 135	1 82	2 00	05/10/11 15:26	VMSC	KRW	11E0095
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 238	1 64	2 00	05/10/11 15:26	VMSC	KRW	11E0095
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 135	1 82	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,1,2-Trichloroethane	ND		ug/m³ Air	0 160	2 18	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Toluene	ND		ug/m³ Air	0 112	1 51	2 00	05/10/11 15:26	VMSC	KRW	11E0095
2-Hexanone	ND		ug/m³ Air	0 0828	1 64	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Chlorodibromomethane	ND		ug/m³ Air	0 260	3 41	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 228	3 07	2 00	05/10/11 15:26	VMSC	KRW	11E0095
n-Octane	ND		ug/m³ Air	0 140	1 87	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Tetrachloroethene	ND		ug/m³ Air	0 201	2 71	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Chlorobenzene	ND		ug/m³ Air	0 138	1 84	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Ethylbenzene	ND		ug/m³ Air	0 129	1 74	2 00	05/10/11 15:26	VMSC	KRW	11E0095
m-Xylene & p-Xylene	ND		ug/m³ Air	0 258	3 47	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Bromoform	ND		ug/m³ Air	0 316	4 13	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Styrene	ND		ug/m³ Air	0 126	1 70	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 204	2 75	2 00	05/10/11 15:26	VMSC	KRW	11E0095
o-Xylene	ND		ug/m³ Air	0 129	1 74	2 00	05/10/11 15:26	VMSC	KRW	11E0095
n-Nonane	ND		ug/m³ Air	0 156	2 10	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Isopropylbenzene	ND		ug/m³ Air	0 282	1 97	2 00	05/10/11 15:26	VMSC	KRW	11E0095
n-Propylbenzene	ND		ug/m³ Air	0 147	1 97	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 146	1 97	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 146	1 97	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Benzyl chloride	ND		ug/m³ Air	0 549	2 07	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,3-Dichlorobenzene	**0 190**	**J**	ug/m³ Air	0 177	2 40	2 00	05/10/11 15:26	VMSC	KRW	11E0095
n-Decane	ND		ug/m³ Air	0 173	2 33	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,4-Dichlorobenzene	**0.204**	**J**	ug/m³ Air	0 178	2 40	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,2-Dichlorobenzene	**0.201**	**J**	ug/m³ Air	0 177	2 40	2 00	05/10/11 15:26	VMSC	KRW	11E0095
n-Undecane	ND		ug/m³ Air	0 101	2 56	2 00	05/10/11 15:26	VMSC	KRW	11E0095
1,2,4-Trichlorobenzene	**0 822**	**J**	ug/m³ Air	0 213	2 97	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Naphthalene	**0 815**	**J**	ug/m³ Air	0 247	2 10	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Hexachlorobutadiene	**0 360**	**J**	ug/m³ Air	0 319	4 27	2 00	05/10/11 15:26	VMSC	KRW	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*103%*						05/10/11 15:26	VMSC	KRW	11E0095
Surr: Fluorobenzene (62-122%)	*87%*						05/10/11 15:26	VMSC	KRW	11E0095
Surr: Toluene-d8 (67-127%)	*95%*						05/10/11 15:26	VMSC	KRW	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*103%*						05/10/11 15:26	VMSC	KRW	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*101%*						05/10/11 15:26	VMSC	KRW	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11E0119-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0 196	1 41	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Dichlorodifluoromethane	ND		ug/m³ Air	0 145	1 98	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Chloromethane	ND		ug/m³ Air	0 0498	0 826	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0 206	2 80	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Vinyl chloride	ND		ug/m³ Air	0 0713	1 02	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,3-Butadiene	ND		ug/m³ Air	0 0576	0 885	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Butane	ND		ug/m³ Air	0 0618	0 951	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Bromomethane	ND		ug/m³ Air	0 115	1 55	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Chloroethane	ND		ug/m³ Air	0 0556	1 06	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Acetonitrile	ND		ug/m³ Air	0 0567	0 672	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Trichlorofluoromethane	ND		ug/m³ Air	0 165	2 25	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Acetone	**0.409**	**J**	ug/m³ Air	0 0604	0 950	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Acrylonitrile	ND		ug/m³ Air	0 232	0 868	2 00	05/11/11 16:33	VMSC	KRW	11E0119
n-Pentane	ND		ug/m³ Air	0 0876	1 18	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Diethyl ether	ND		ug/m³ Air	0 162	1 21	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,1-Dichloroethene	ND		ug/m³ Air	0 140	1 59	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Methylene chloride	ND		ug/m³ Air	0 104	1 39	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Carbon disulfide	ND		ug/m³ Air	0 315	1 25	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Allyl chloride	ND		ug/m³ Air	0 0913	1 25	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 227	3 07	2 00	05/11/11 16:33	VMSC	KRW	11E0119
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 228	1 59	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,1-Dichloroethane	ND		ug/m³ Air	0 120	1 62	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 197	1 44	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Vinyl acetate	ND		ug/m³ Air	0 443	1 41	2 00	05/11/11 16:33	VMSC	KRW	11E0119
2-Butanone (MEK)	ND		ug/m³ Air	0 173	1 18	2 00	05/11/11 16:33	VMSC	KRW	11E0119
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 118	1 59	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Hexane	ND		ug/m³ Air	0 0946	1 41	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Chloroform	ND		ug/m³ Air	0 145	1 95	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,2-Dichloroethane	ND		ug/m³ Air	0 120	1 62	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,1,1-Trichloroethane	ND		ug/m³ Air	0 160	2 18	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Benzene	ND		ug/m³ Air	0 0716	1 28	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Carbon tetrachloride	ND		ug/m³ Air	0 187	2 52	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Cyclohexane	ND		ug/m³ Air	0 0748	1 38	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,2-Dichloropropane	ND		ug/m³ Air	0 137	1 85	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Bromodichloromethane	ND		ug/m³ Air	0 205	2 68	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Trichloroethene	ND		ug/m³ Air	0 159	2 15	2 00	05/11/11 16:33	VMSC	KRW	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUD0201 Project: Bannister Complex Project Number: [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31	

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11E0119-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Heptane	ND		ug/m³ Air	0 0839	1 64	2 00	05/11/11 16:33	VMSC	KRW	11E0119
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 135	1 82	2 00	05/11/11 16:33	VMSC	KRW	11E0119
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 238	1 64	2 00	05/11/11 16:33	VMSC	KRW	11E0119
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 135	1 82	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,1,2-Trichloroethane	ND		ug/m³ Air	0 160	2 18	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Toluene	ND		ug/m³ Air	0 112	1 51	2 00	05/11/11 16:33	VMSC	KRW	11E0119
2-Hexanone	ND		ug/m³ Air	0 0828	1 64	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Chlorodibromomethane	ND		ug/m³ Air	0 260	3 41	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 228	3 07	2 00	05/11/11 16:33	VMSC	KRW	11E0119
n-Octane	ND		ug/m³ Air	0 140	1 87	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Tetrachloroethene	ND		ug/m³ Air	0 201	2 71	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Chlorobenzene	ND		ug/m³ Air	0 138	1 84	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Ethylbenzene	ND		ug/m³ Air	0 129	1 74	2 00	05/11/11 16:33	VMSC	KRW	11E0119
m-Xylene & p-Xylene	ND		ug/m³ Air	0 258	3 47	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Bromoform	ND		ug/m³ Air	0 316	4 13	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Styrene	ND		ug/m³ Air	0 126	1 70	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 204	2 75	2 00	05/11/11 16:33	VMSC	KRW	11E0119
o-Xylene	ND		ug/m³ Air	0 129	1 74	2 00	05/11/11 16:33	VMSC	KRW	11E0119
n-Nonane	ND		ug/m³ Air	0 156	2 10	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Isopropylbenzene	ND		ug/m³ Air	0 282	1 97	2 00	05/11/11 16:33	VMSC	KRW	11E0119
n-Propylbenzene	ND		ug/m³ Air	0 147	1 97	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 146	1 97	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 146	1 97	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Benzyl chloride	ND		ug/m³ Air	0 549	2 07	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,3-Dichlorobenzene	**0.209**	**J**	ug/m³ Air	0 177	2 40	2 00	05/11/11 16:33	VMSC	KRW	11E0119
n-Decane	ND		ug/m³ Air	0 173	2 33	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,4-Dichlorobenzene	**0.253**	**J**	ug/m³ Air	0 178	2 40	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,2-Dichlorobenzene	**0.231**	**J**	ug/m³ Air	0 177	2 40	2 00	05/11/11 16:33	VMSC	KRW	11E0119
n-Undecane	ND		ug/m³ Air	0 101	2 56	2 00	05/11/11 16:33	VMSC	KRW	11E0119
1,2,4-Trichlorobenzene	**0 822**	**J**	ug/m³ Air	0 213	2 97	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Naphthalene	**0.714**	**J**	ug/m³ Air	0 247	2 10	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Hexachlorobutadiene	**0 333**	**J**	ug/m³ Air	0 319	4 27	2 00	05/11/11 16:33	VMSC	KRW	11E0119
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*97%*						05/11/11 16:33	VMSC	KRW	11E0119
Surr: Fluorobenzene (62-122%)	*86%*						05/11/11 16:33	VMSC	KRW	11E0119
Surr: Toluene-d8 (67-127%)	*91%*						05/11/11 16:33	VMSC	KRW	11E0119
Surr: 1,4-Dichlorobutane (76-136%)	*105%*						05/11/11 16:33	VMSC	KRW	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11E0119-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Surr: 4-Bromofluorobenzene (73-133%)	*103%*						05/11/11 16:33	VMSC	KRW	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Calibration Check

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0095-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	54 1		ug/m³ Air	1 98	2 00	52 1	104%	70 - 130	VMSC	05/10/11 14:23	11E0095
Chloromethane	22 8		ug/m³ Air	0 826	2 00	22 0	104%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	73 4		ug/m³ Air	2 80	2 00	72 9	101%	70 - 130	VMSC	05/10/11 14:23	11E0095
Vinyl chloride	28 3		ug/m³ Air	1 02	2 00	26 9	105%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,3-Butadiene	25 9		ug/m³ Air	0 885	2 00	24 7	105%	70 - 130	VMSC	05/10/11 14:23	11E0095
Butane	24 5		ug/m³ Air	0 951	2 00	24 5	100%	70 - 130	VMSC	05/10/11 14:23	11E0095
Bromomethane	44 7		ug/m³ Air	1 55	2 00	40 9	109%	70 - 130	VMSC	05/10/11 14:23	11E0095
Chloroethane	30 8		ug/m³ Air	1 06	2 00	27 8	111%	70 - 130	VMSC	05/10/11 14:23	11E0095
Acetonitrile	25 2		ug/m³ Air	0 672	2 00	18 4	137%	50 - 150	VMSC	05/10/11 14:23	11E0095
Trichlorofluoromethane	69 4		ug/m³ Air	2 25	2 00	61 6	113%	70 - 130	VMSC	05/10/11 14:23	11E0095
Acetone	**36.5**	**C8, B**	**ug/m³ Air**	**0 950**	**2.00**	**27 8**	**131%**	**70 - 130**	**VMSC**	**05/10/11 14:23**	**11E0095**
Acrylonitrile	**35.6**	**C8**	**ug/m³ Air**	**0 868**	**2.00**	**24.2**	**147%**	**70 - 130**	**VMSC**	**05/10/11 14:23**	**11E0095**
n-Pentane	35 9		ug/m³ Air	1 18	2 00	32 3	111%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,1-Dichloroethene	51 0		ug/m³ Air	1 59	2 00	43 9	116%	70 - 130	VMSC	05/10/11 14:23	11E0095
Methylene chloride	42 5		ug/m³ Air	1 39	2 00	37 7	113%	70 - 130	VMSC	05/10/11 14:23	11E0095
Carbon disulfide	49 8		ug/m³ Air	1 25	2 00	34 1	146%	50 - 150	VMSC	05/10/11 14:23	11E0095
Allyl chloride	43 6		ug/m³ Air	1 25	2 00	35 3	123%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,1,2-Trichlorotrifluoroethane	96 5		ug/m³ Air	3 07	2 00	84 0	115%	70 - 130	VMSC	05/10/11 14:23	11E0095
trans-1,2-Dichloroethene	50 8		ug/m³ Air	1 59	2 00	43 9	116%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,1-Dichloroethane	52 9		ug/m³ Air	1 62	2 00	45 7	116%	70 - 130	VMSC	05/10/11 14:23	11E0095
Methyl tert-Butyl Ether	44 7		ug/m³ Air	1 44	2 00	39 1	114%	70 - 130	VMSC	05/10/11 14:23	11E0095
Vinyl acetate	53 4		ug/m³ Air	1 41	2 00	41 2	130%	50 - 150	VMSC	05/10/11 14:23	11E0095
2-Butanone (MEK)	42 9		ug/m³ Air	1 18	2 00	34 2	125%	50 - 150	VMSC	05/10/11 14:23	11E0095
cis-1,2-Dichloroethene	50 7		ug/m³ Air	1 59	2 00	44 3	115%	70 - 130	VMSC	05/10/11 14:23	11E0095
Hexane	47 6		ug/m³ Air	1 41	2 00	39 8	120%	70 - 130	VMSC	05/10/11 14:23	11E0095
Chloroform	63 3		ug/m³ Air	1 95	2 00	54 1	117%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,2-Dichloroethane	52 7		ug/m³ Air	1 62	2 00	45 7	115%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,1,1-Trichloroethane	76 5		ug/m³ Air	2 18	2 00	61 5	124%	70 - 130	VMSC	05/10/11 14:23	11E0095
Benzene	35 1		ug/m³ Air	1 28	2 00	36 4	97%	70 - 130	VMSC	05/10/11 14:23	11E0095
Carbon tetrachloride	77 9		ug/m³ Air	2 52	2 00	70 3	111%	70 - 130	VMSC	05/10/11 14:23	11E0095
Cyclohexane	36 9		ug/m³ Air	1 38	2 00	38 8	95%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,2-Dichloropropane	50 5		ug/m³ Air	1 85	2 00	52 1	97%	70 - 130	VMSC	05/10/11 14:23	11E0095
Bromodichloromethane	69 7		ug/m³ Air	2 68	2 00	72 0	97%	70 - 130	VMSC	05/10/11 14:23	11E0095
Trichloroethene	60 5		ug/m³ Air	2 15	2 00	57 8	105%	70 - 130	VMSC	05/10/11 14:23	11E0095
Heptane	42 8		ug/m³ Air	1 64	2 00	44 9	95%	70 - 130	VMSC	05/10/11 14:23	11E0095
cis-1,3-Dichloropropene	53 9		ug/m³ Air	1 82	2 00	50 2	107%	70 - 130	VMSC	05/10/11 14:23	11E0095
4-Methyl-2-pentanone (MIBK)	60 1		ug/m³ Air	1 64	2 00	47 5	126%	50 - 150	VMSC	05/10/11 14:23	11E0095

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PROJECT QUALITY CONTROL DATA

Calibration Check - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0095-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
trans-1,3-Dichloropropene	58 8		ug/m³ Air	1 82	2 00	53 1	111%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,1,2-Trichloroethane	60 0		ug/m³ Air	2 18	2 00	62 1	97%	70 - 130	VMSC	05/10/11 14:23	11E0095
Toluene	42 4		ug/m³ Air	1 51	2 00	43 7	97%	70 - 130	VMSC	05/10/11 14:23	11E0095
Chlorodibromomethane	115		ug/m³ Air	3 41	2 00	94 3	122%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,2-Dibromoethane (EDB)	85 6		ug/m³ Air	3 07	2 00	88 3	97%	70 - 130	VMSC	05/10/11 14:23	11E0095
n-Octane	46 6		ug/m³ Air	1 87	2 00	51 2	91%	70 - 130	VMSC	05/10/11 14:23	11E0095
Tetrachloroethene	80 2		ug/m³ Air	2 71	2 00	76 5	105%	70 - 130	VMSC	05/10/11 14:23	11E0095
Chlorobenzene	52 0		ug/m³ Air	1 84	2 00	52 9	98%	70 - 130	VMSC	05/10/11 14:23	11E0095
Ethylbenzene	54 0		ug/m³ Air	1 74	2 00	49 9	108%	70 - 130	VMSC	05/10/11 14:23	11E0095
m-Xylene & p-Xylene	107		ug/m³ Air	3 47	2 00	98 0	109%	70 - 130	VMSC	05/10/11 14:23	11E0095
Bromoform	**172**	**C8**	**ug/m³ Air**	**4.13**	**2.00**	**117**	**147%**	**70 - 130**	**VMSC**	**05/10/11 14:23**	**11E0095**
Styrene	54 4		ug/m³ Air	1 70	2 00	49 4	110%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,1,2,2-Tetrachloroethane	68 5		ug/m³ Air	2 75	2 00	78 1	88%	70 - 130	VMSC	05/10/11 14:23	11E0095
o-Xylene	52 5		ug/m³ Air	1 74	2 00	49 4	106%	70 - 130	VMSC	05/10/11 14:23	11E0095
n-Nonane	55 8		ug/m³ Air	2 10	2 00	56 9	98%	70 - 130	VMSC	05/10/11 14:23	11E0095
Isopropylbenzene	64 7		ug/m³ Air	1 97	2 00	51 8	125%	70 - 130	VMSC	05/10/11 14:23	11E0095
n-Propylbenzene	57 1		ug/m³ Air	1 97	2 00	52 3	109%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,3,5-Trimethylbenzene	67 9		ug/m³ Air	1 97	2 00	57 0	119%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,2,4-Trimethylbenzene	66 6		ug/m³ Air	1 97	2 00	57 0	117%	70 - 130	VMSC	05/10/11 14:23	11E0095
Benzyl chloride	**87.0**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**60 1**	**145%**	**70 - 130**	**VMSC**	**05/10/11 14:23**	**11E0095**
1,3-Dichlorobenzene	74 5	B	ug/m³ Air	2 40	2 00	69 7	107%	70 - 130	VMSC	05/10/11 14:23	11E0095
n-Decane	59 2		ug/m³ Air	2 33	2 00	63 8	93%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,4-Dichlorobenzene	72 5	B	ug/m³ Air	2 40	2 00	69 1	105%	70 - 130	VMSC	05/10/11 14:23	11E0095
1,2-Dichlorobenzene	70 4	B	ug/m³ Air	2 40	2 00	69 1	102%	70 - 130	VMSC	05/10/11 14:23	11E0095
n-Undecane	91 9		ug/m³ Air	2 56	2 00	69 4	133%	50 - 150	VMSC	05/10/11 14:23	11E0095
1,2,4-Trichlorobenzene	105	B	ug/m³ Air	2 97	2 00	86 1	122%	50 - 150	VMSC	05/10/11 14:23	11E0095
Naphthalene	90 5	B	ug/m³ Air	2 10	2 00	60 8	149%	50 - 150	VMSC	05/10/11 14:23	11E0095
Hexachlorobutadiene	151	B	ug/m³ Air	4 27	2 00	123	123%	50 - 150	VMSC	05/10/11 14:23	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*101%*								VMSC	05/10/11 14:23	11E0095
Surr: Fluorobenzene (62-122%)	*109%*								VMSC	05/10/11 14:23	11E0095
Surr: Toluene-d8 (67-127%)	*98%*								VMSC	05/10/11 14:23	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*99%*								VMSC	05/10/11 14:23	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*95%*								VMSC	05/10/11 14:23	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Calibration Check - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0119-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	50 8		ug/m³ Air	1 98	2 00	51 9	98%	70 - 130	VMSC	05/11/11 13:24	11E0119
Chloromethane	20 9		ug/m³ Air	0 826	2 00	21 9	95%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,2-Dichloro-1,1,2,2-tetrafluoroethane	68 7		ug/m³ Air	2 80	2 00	72 6	95%	70 - 130	VMSC	05/11/11 13:24	11E0119
Vinyl chloride	26 0		ug/m³ Air	1 02	2 00	26 8	97%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,3-Butadiene	24 3		ug/m³ Air	0 885	2 00	24 6	99%	70 - 130	VMSC	05/11/11 13:24	11E0119
Butane	22 8		ug/m³ Air	0 951	2 00	24 4	93%	70 - 130	VMSC	05/11/11 13:24	11E0119
Bromomethane	41 2		ug/m³ Air	1 55	2 00	40 7	101%	70 - 130	VMSC	05/11/11 13:24	11E0119
Chloroethane	28 9		ug/m³ Air	1 06	2 00	27 7	104%	70 - 130	VMSC	05/11/11 13:24	11E0119
Acetonitrile	22 5		ug/m³ Air	0 672	2 00	18 3	123%	50 - 150	VMSC	05/11/11 13:24	11E0119
Trichlorofluoromethane	65 9		ug/m³ Air	2 25	2 00	61 4	107%	70 - 130	VMSC	05/11/11 13:24	11E0119
Acetone	31 4	B	ug/m³ Air	0 950	2 00	27 7	113%	70 - 130	VMSC	05/11/11 13:24	11E0119
Acrylonitrile	**34.2**	**C8**	**ug/m³ Air**	**0 868**	**2.00**	**24.2**	**141%**	**70 - 130**	**VMSC**	**05/11/11 13:24**	**11E0119**
n-Pentane	33 8		ug/m³ Air	1 18	2 00	32 2	105%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,1-Dichloroethene	48 9		ug/m³ Air	1 59	2 00	43 7	112%	70 - 130	VMSC	05/11/11 13:24	11E0119
Methylene chloride	41 4		ug/m³ Air	1 39	2 00	37 6	110%	70 - 130	VMSC	05/11/11 13:24	11E0119
Carbon disulfide	48 2		ug/m³ Air	1 25	2 00	34 0	142%	50 - 150	VMSC	05/11/11 13:24	11E0119
Allyl chloride	42 2		ug/m³ Air	1 25	2 00	35 2	120%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,1,2-Trichlorotrifluoroethane	89 8		ug/m³ Air	3 07	2 00	83 7	107%	70 - 130	VMSC	05/11/11 13:24	11E0119
trans-1,2-Dichloroethene	49 8		ug/m³ Air	1 59	2 00	43 7	114%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,1-Dichloroethane	52 1		ug/m³ Air	1 62	2 00	45 5	115%	70 - 130	VMSC	05/11/11 13:24	11E0119
Methyl tert-Butyl Ether	40 7		ug/m³ Air	1 44	2 00	39 0	104%	70 - 130	VMSC	05/11/11 13:24	11E0119
Vinyl acetate	51 1		ug/m³ Air	1 41	2 00	41 1	124%	50 - 150	VMSC	05/11/11 13:24	11E0119
2-Butanone (MEK)	41 1		ug/m³ Air	1 18	2 00	34 1	121%	50 - 150	VMSC	05/11/11 13:24	11E0119
cis-1,2-Dichloroethene	50 3		ug/m³ Air	1 59	2 00	44 1	114%	70 - 130	VMSC	05/11/11 13:24	11E0119
Hexane	46 0		ug/m³ Air	1 41	2 00	39 6	116%	70 - 130	VMSC	05/11/11 13:24	11E0119
Chloroform	62 7		ug/m³ Air	1 95	2 00	53 8	116%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,2-Dichloroethane	53 6		ug/m³ Air	1 62	2 00	45 5	118%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,1,1-Trichloroethane	73 1		ug/m³ Air	2 18	2 00	61 3	119%	70 - 130	VMSC	05/11/11 13:24	11E0119
Benzene	38 7		ug/m³ Air	1 28	2 00	36 2	107%	70 - 130	VMSC	05/11/11 13:24	11E0119
Carbon tetrachloride	80 7		ug/m³ Air	2 52	2 00	70 0	115%	70 - 130	VMSC	05/11/11 13:24	11E0119
Cyclohexane	39 0		ug/m³ Air	1 38	2 00	38 7	101%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,2-Dichloropropane	55 5		ug/m³ Air	1 85	2 00	51 9	107%	70 - 130	VMSC	05/11/11 13:24	11E0119
Bromodichloromethane	77 4		ug/m³ Air	2 68	2 00	71 8	108%	70 - 130	VMSC	05/11/11 13:24	11E0119
Trichloroethene	66 9		ug/m³ Air	2 15	2 00	57 6	116%	70 - 130	VMSC	05/11/11 13:24	11E0119
Heptane	46 9		ug/m³ Air	1 64	2 00	44 8	105%	70 - 130	VMSC	05/11/11 13:24	11E0119
cis-1,3-Dichloropropene	59 6		ug/m³ Air	1 82	2 00	50 0	119%	70 - 130	VMSC	05/11/11 13:24	11E0119
4-Methyl-2-pentanone (MIBK)	64 8		ug/m³ Air	1 64	2 00	47 3	137%	50 - 150	VMSC	05/11/11 13:24	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Calibration Check - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0119-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
trans-1,3-Dichloropropene	64 6		ug/m³ Air	1 82	2 00	52 9	122%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,1,2-Trichloroethane	65 9		ug/m³ Air	2 18	2 00	61 9	106%	70 - 130	VMSC	05/11/11 13:24	11E0119
Toluene	46 8		ug/m³ Air	1 51	2 00	43 5	108%	70 - 130	VMSC	05/11/11 13:24	11E0119
Chlorodibromomethane	**125**	**C8**	**ug/m³ Air**	**3.41**	**2.00**	**93 9**	**133%**	**70 - 130**	**VMSC**	**05/11/11 13:24**	**11E0119**
1,2-Dibromoethane (EDB)	94 0		ug/m³ Air	3 07	2 00	88 0	107%	70 - 130	VMSC	05/11/11 13:24	11E0119
n-Octane	51 3		ug/m³ Air	1 87	2 00	51 0	101%	70 - 130	VMSC	05/11/11 13:24	11E0119
Tetrachloroethene	87 6		ug/m³ Air	2 71	2 00	76 2	115%	70 - 130	VMSC	05/11/11 13:24	11E0119
Chlorobenzene	56 4		ug/m³ Air	1 84	2 00	52 7	107%	70 - 130	VMSC	05/11/11 13:24	11E0119
Ethylbenzene	58 6		ug/m³ Air	1 74	2 00	49 7	118%	70 - 130	VMSC	05/11/11 13:24	11E0119
m-Xylene & p-Xylene	117		ug/m³ Air	3 47	2 00	97 6	120%	70 - 130	VMSC	05/11/11 13:24	11E0119
Bromoform	**179**	**C8**	**ug/m³ Air**	**4.13**	**2.00**	**116**	**154%**	**70 - 130**	**VMSC**	**05/11/11 13:24**	**11E0119**
Styrene	58 3		ug/m³ Air	1 70	2 00	49 2	118%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,1,2,2-Tetrachloroethane	74 6		ug/m³ Air	2 75	2 00	77 9	96%	70 - 130	VMSC	05/11/11 13:24	11E0119
o-Xylene	57 3		ug/m³ Air	1 74	2 00	49 2	116%	70 - 130	VMSC	05/11/11 13:24	11E0119
n-Nonane	61 1		ug/m³ Air	2 10	2 00	56 7	108%	70 - 130	VMSC	05/11/11 13:24	11E0119
Isopropylbenzene	**69.9**	**C8**	**ug/m³ Air**	**1.97**	**2.00**	**51.6**	**136%**	**70 - 130**	**VMSC**	**05/11/11 13:24**	**11E0119**
n-Propylbenzene	61 8		ug/m³ Air	1 97	2 00	52 1	119%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,3,5-Trimethylbenzene	73 8		ug/m³ Air	1 97	2 00	56 8	130%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,2,4-Trimethylbenzene	72 5		ug/m³ Air	1 97	2 00	56 8	128%	70 - 130	VMSC	05/11/11 13:24	11E0119
Benzyl chloride	**96.9**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**59 8**	**162%**	**70 - 130**	**VMSC**	**05/11/11 13:24**	**11E0119**
1,3-Dichlorobenzene	80 8	B	ug/m³ Air	2 40	2 00	69 4	116%	70 - 130	VMSC	05/11/11 13:24	11E0119
n-Decane	65 2		ug/m³ Air	2 33	2 00	63 6	103%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,4-Dichlorobenzene	78 2	B	ug/m³ Air	2 40	2 00	68 8	114%	70 - 130	VMSC	05/11/11 13:24	11E0119
1,2-Dichlorobenzene	77 7	B	ug/m³ Air	2 40	2 00	68 8	113%	70 - 130	VMSC	05/11/11 13:24	11E0119
n-Undecane	99 1		ug/m³ Air	2 56	2 00	69 1	143%	50 - 150	VMSC	05/11/11 13:24	11E0119
1,2,4-Trichlorobenzene	92 8	B	ug/m³ Air	2 97	2 00	85 7	108%	50 - 150	VMSC	05/11/11 13:24	11E0119
Naphthalene	81 5	B	ug/m³ Air	2 10	2 00	60 6	135%	50 - 150	VMSC	05/11/11 13:24	11E0119
Hexachlorobutadiene	146	B	ug/m³ Air	4 27	2 00	122	119%	50 - 150	VMSC	05/11/11 13:24	11E0119
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*106%*								VMSC	05/11/11 13:24	11E0119
Surr: Fluorobenzene (62-122%)	*103%*								VMSC	05/11/11 13:24	11E0119
Surr: Toluene-d8 (67-127%)	*104%*								VMSC	05/11/11 13:24	11E0119
Surr: 1,4-Dichlorobutane (76-136%)	*99%*								VMSC	05/11/11 13:24	11E0119
Surr: 4-Bromofluorobenzene (73-133%)	*95%*								VMSC	05/11/11 13:24	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUD0201 Project: Bannister Complex Project Number: [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31	

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0095-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**1.52**	**J**	**1.49**	ug/m³ Air	2	25	11E0095	AUD0201-05	05/11/11 2:45
Dichlorodifluoromethane	**2.78**	**J**	**2.80**	ug/m³ Air	0 9	25	11E0095	AUD0201-05	05/11/11 2:45
Chloromethane	**1.54**	**J**	**1.51**	ug/m³ Air	2	25	11E0095	AUD0201-05	05/11/11 2:45
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Vinyl chloride	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,3-Butadiene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Butane	**0 911**	**J**	**0 960**	ug/m³ Air	5	25	11E0095	AUD0201-05	05/11/11 2:45
Bromomethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Chloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Acetonitrile	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Trichlorofluoromethane	**1.83**	**J**	**1.68**	ug/m³ Air	9	25	11E0095	AUD0201-05	05/11/11 2:45
Acetone	**7.74**	**B**	**7.52**	ug/m³ Air	3	25	11E0095	AUD0201-05	05/11/11 2:45
Acrylonitrile	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
n-Pentane	**0.617**	**J**	**0.484**	ug/m³ Air	24	25	11E0095	AUD0201-05	05/11/11 2:45
Diethyl ether	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Methylene chloride	**0 368**	**J**	**0 338**	ug/m³ Air	8	25	11E0095	AUD0201-05	05/11/11 2:45
Carbon disulfide	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Allyl chloride	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,1,2-Trichlorotrifluoroethane	**0.629**	**J**	**0.629**	ug/m³ Air	0	25	11E0095	AUD0201-05	05/11/11 2:45
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Vinyl acetate	ND		ND	ug/m³ Air		50	11E0095	AUD0201-05	05/11/11 2:45
2-Butanone (MEK)	**0.743**	**J**	**0.697**	ug/m³ Air	7	25	11E0095	AUD0201-05	05/11/11 2:45
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Hexane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Chloroform	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Benzene	**0.289**	**J**	**0.276**	ug/m³ Air	5	25	11E0095	AUD0201-05	05/11/11 2:45
Carbon tetrachloride	**0.620**	**J**	**0 593**	ug/m³ Air	4	25	11E0095	AUD0201-05	05/11/11 2:45
Cyclohexane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Bromodichloromethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0095-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Trichloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Heptane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Toluene	**0.798**	**J**	**0 834**	ug/m³ Air	4	25	11E0095	AUD0201-05	05/11/11 2:45
2-Hexanone	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
n-Octane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Tetrachloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Chlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Ethylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
m-Xylene & p-Xylene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Bromoform	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Styrene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
o-Xylene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
n-Nonane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Isopropylbenzene	ND		ND	ug/m³ Air		50	11E0095	AUD0201-05	05/11/11 2:45
n-Propylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Benzyl chloride	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
n-Decane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
n-Undecane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Naphthalene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-05	05/11/11 2:45
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*101%*						11E0095		05/11/11 2:45

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0095-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: Fluorobenzene (62-122%)	*89%*						11E0095		05/11/11 2:45
Surr: Toluene-d8 (67-127%)	*95%*						11E0095		05/11/11 2:45
Surr: 1,4-Dichlorobutane (76-136%)	*105%*						11E0095		05/11/11 2:45
Surr: 4-Bromofluorobenzene (73-133%)	*101%*						11E0095		05/11/11 2:45
Sample ID: 11E0095-DUP2 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**1.43**	**J**	**1.62**	ug/m³ Air	12	25	11E0095	AUD0201-10	05/11/11 8:58
Dichlorodifluoromethane	**2.72**	**J**	**2.81**	ug/m³ Air	3	25	11E0095	AUD0201-10	05/11/11 8:58
Chloromethane	**1.67**	**J**	**1.65**	ug/m³ Air	1	25	11E0095	AUD0201-10	05/11/11 8:58
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Vinyl chloride	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,3-Butadiene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Butane	**0 925**	**J**	**0 944**	ug/m³ Air	2	25	11E0095	AUD0201-10	05/11/11 8:58
Bromomethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Chloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Acetonitrile	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Trichlorofluoromethane	**1.83**	**J**	**1.88**	ug/m³ Air	3	25	11E0095	AUD0201-10	05/11/11 8:58
Acetone	**14.5**	**B**	**14.4**	ug/m³ Air	0 6	25	11E0095	AUD0201-10	05/11/11 8:58
Acrylonitrile	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
n-Pentane	**0.648**	**J**	**0.691**	ug/m³ Air	6	25	11E0095	AUD0201-10	05/11/11 8:58
Diethyl ether	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Methylene chloride	**0.430**	**J**	**0.461**	ug/m³ Air	7	25	11E0095	AUD0201-10	05/11/11 8:58
Carbon disulfide	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Allyl chloride	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,1,2-Trichlorotrifluoroethane	**0 837**	**J**	**0 913**	ug/m³ Air	9	25	11E0095	AUD0201-10	05/11/11 8:58
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Vinyl acetate	ND		ND	ug/m³ Air		50	11E0095	AUD0201-10	05/11/11 8:58
2-Butanone (MEK)	**1.55**	**J**	**1.51**	ug/m³ Air	3	25	11E0095	AUD0201-10	05/11/11 8:58
cis-1,2-Dichloroethene	**3.51**	**J**	**3.51**	ug/m³ Air	0 2	25	11E0095	AUD0201-10	05/11/11 8:58
Hexane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0095-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chloroform	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Benzene	**0 374**	**J**	**0 389**	ug/m³ Air	4	25	11E0095	AUD0201-10	05/11/11 8:58
Carbon tetrachloride	**0.632**	**J**	**0.602**	ug/m³ Air	5	25	11E0095	AUD0201-10	05/11/11 8:58
Cyclohexane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Bromodichloromethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Trichloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Heptane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Toluene	**0 992**	**J**	**0 990**	ug/m³ Air	0 2	25	11E0095	AUD0201-10	05/11/11 8:58
2-Hexanone	**0 326**	**J**	**0.275**	ug/m³ Air	17	25	11E0095	AUD0201-10	05/11/11 8:58
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
n-Octane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Tetrachloroethene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Chlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Ethylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
m-Xylene & p-Xylene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Bromoform	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Styrene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
o-Xylene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
n-Nonane	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Isopropylbenzene	ND		ND	ug/m³ Air		50	11E0095	AUD0201-10	05/11/11 8:58
n-Propylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Benzyl chloride	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
n-Decane	**0.754**	**J**	**0 802**	ug/m³ Air	6	25	11E0095	AUD0201-10	05/11/11 8:58

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0095-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
n-Undecane	**3.42**	**J**	**3.47**	ug/m³ Air	1	25	11E0095	AUD0201-10	05/11/11 8:58
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Naphthalene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11E0095	AUD0201-10	05/11/11 8:58
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*103%*						11E0095		05/11/11 8:58
Surr: Fluorobenzene (62-122%)	*89%*						11E0095		05/11/11 8:58
Surr: Toluene-d8 (67-127%)	*93%*						11E0095		05/11/11 8:58
Surr: 1,4-Dichlorobutane (76-136%)	*99%*						11E0095		05/11/11 8:58
Surr: 4-Bromofluorobenzene (73-133%)	*98%*						11E0095		05/11/11 8:58
Sample ID: 11E0119-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Dichlorodifluoromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Chloromethane	**1.28**	**J**	**1.30**	ug/m³ Air	2	25	11E0119	AUD0279-04	05/12/11 4:02
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Vinyl chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,3-Butadiene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Butane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Bromomethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Chloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Acetonitrile	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Trichlorofluoromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Acetone	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Acrylonitrile	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
n-Pentane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Diethyl ether	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Methylene chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Carbon disulfide	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Allyl chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0119-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Vinyl acetate	ND		ND	ug/m³ Air		50	11E0119	AUD0279-04	05/12/11 4:02
2-Butanone (MEK)	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Hexane	**0.468**	**J**	**0 506**	ug/m³ Air	8	25	11E0119	AUD0279-04	05/12/11 4:02
Chloroform	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Benzene	**0.256**	**J**	**0.267**	ug/m³ Air	4	25	11E0119	AUD0279-04	05/12/11 4:02
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Cyclohexane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Bromodichloromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Trichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Heptane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Toluene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
2-Hexanone	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
n-Octane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Tetrachloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Chlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Ethylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
m-Xylene & p-Xylene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Bromoform	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Styrene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
o-Xylene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUD0201 Project: Bannister Complex Project Number: [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31	

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0119-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
n-Nonane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Isopropylbenzene	ND		ND	ug/m³ Air		50	11E0119	AUD0279-04	05/12/11 4:02
n-Propylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Benzyl chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
n-Decane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
n-Undecane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Naphthalene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-04	05/12/11 4:02
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*100%*						11E0119		05/12/11 4:02
Surr: Fluorobenzene (62-122%)	*85%*						11E0119		05/12/11 4:02
Surr: Toluene-d8 (67-127%)	*96%*						11E0119		05/12/11 4:02
Surr: 1,4-Dichlorobutane (76-136%)	*110%*						11E0119		05/12/11 4:02
Surr: 4-Bromofluorobenzene (73-133%)	*105%*						11E0119		05/12/11 4:02
Sample ID: 11E0119-DUP2 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Dichlorodifluoromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Chloromethane	**1.32**	**J**	**1.31**	ug/m³ Air	1	25	11E0119	AUD0279-05	05/12/11 6:07
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Vinyl chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,3-Butadiene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Butane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Bromomethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Chloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Acetonitrile	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Trichlorofluoromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0119-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Acetone	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Acrylonitrile	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
n-Pentane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Diethyl ether	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Methylene chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Carbon disulfide	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Allyl chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Vinyl acetate	ND		ND	ug/m³ Air		50	11E0119	AUD0279-05	05/12/11 6:07
2-Butanone (MEK)	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Hexane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Chloroform	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Benzene	**0 309**	**J**	**0.239**	ug/m³ Air	25	25	11E0119	AUD0279-05	05/12/11 6:07
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Cyclohexane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Bromodichloromethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Trichloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Heptane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Toluene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
2-Hexanone	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
n-Octane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11E0119-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Tetrachloroethene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Chlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Ethylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
m-Xylene & p-Xylene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Bromoform	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Styrene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
o-Xylene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
n-Nonane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Isopropylbenzene	ND		ND	ug/m³ Air		50	11E0119	AUD0279-05	05/12/11 6:07
n-Propylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Benzyl chloride	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
n-Decane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
n-Undecane	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Naphthalene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11E0119	AUD0279-05	05/12/11 6:07
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*101%*						11E0119		05/12/11 6:07
Surr: Fluorobenzene (62-122%)	*86%*						11E0119		05/12/11 6:07
Surr: Toluene-d8 (67-127%)	*95%*						11E0119		05/12/11 6:07
Surr: 1,4-Dichlorobutane (76-136%)	*112%*						11E0119		05/12/11 6:07
Surr: 4-Bromofluorobenzene (73-133%)	*103%*						11E0119		05/12/11 6:07

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]		Received: Reported:	04/19/11 09:30 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0095-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	39 1		ug/m³ Air	1 41	2 00	38 7	101%	50 - 150	VMSC	05/10/11 12:16	11E0095
Dichlorodifluoromethane	55 2		ug/m³ Air	1 98	2 00	52 5	105%	50 - 150	VMSC	05/10/11 12:16	11E0095
Chloromethane	23 1		ug/m³ Air	0 826	2 00	22 2	104%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	65 8		ug/m³ Air	2 80	2 00	74 2	89%	50 - 150	VMSC	05/10/11 12:16	11E0095
Vinyl chloride	28 5		ug/m³ Air	1 02	2 00	27 4	104%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,3-Butadiene	24 9		ug/m³ Air	0 885	2 00	24 2	103%	50 - 150	VMSC	05/10/11 12:16	11E0095
Butane	23 1		ug/m³ Air	0 951	2 00	24 5	94%	50 - 150	VMSC	05/10/11 12:16	11E0095
Bromomethane	44 3		ug/m³ Air	1 55	2 00	41 2	107%	50 - 150	VMSC	05/10/11 12:16	11E0095
Chloroethane	29 1		ug/m³ Air	1 06	2 00	27 7	105%	50 - 150	VMSC	05/10/11 12:16	11E0095
Acetonitrile	20 3		ug/m³ Air	0 672	2 00	17 8	114%	50 - 150	VMSC	05/10/11 12:16	11E0095
Trichlorofluoromethane	69 4		ug/m³ Air	2 25	2 00	60 9	114%	50 - 150	VMSC	05/10/11 12:16	11E0095
Acetone	29 7	B	ug/m³ Air	0 950	2 00	26 0	114%	50 - 150	VMSC	05/10/11 12:16	11E0095
Acrylonitrile	29 6		ug/m³ Air	0 868	2 00	23 7	125%	50 - 150	VMSC	05/10/11 12:16	11E0095
n-Pentane	33 4		ug/m³ Air	1 18	2 00	32 3	104%	50 - 150	VMSC	05/10/11 12:16	11E0095
Diethyl ether	38 8		ug/m³ Air	1 21	2 00	33 2	117%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,1-Dichloroethene	48 9		ug/m³ Air	1 59	2 00	43 8	112%	50 - 150	VMSC	05/10/11 12:16	11E0095
Methylene chloride	40 4		ug/m³ Air	1 39	2 00	37 6	107%	50 - 150	VMSC	05/10/11 12:16	11E0095
Carbon disulfide	36 7		ug/m³ Air	1 25	2 00	34 4	107%	50 - 150	VMSC	05/10/11 12:16	11E0095
Allyl chloride	31 5		ug/m³ Air	1 25	2 00	33 9	93%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,1,2-Trichlorotrifluoroethane	98 2		ug/m³ Air	3 07	2 00	85 5	115%	50 - 150	VMSC	05/10/11 12:16	11E0095
trans-1,2-Dichloroethene	44 5		ug/m³ Air	1 59	2 00	42 5	105%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,1-Dichloroethane	47 8		ug/m³ Air	1 62	2 00	44 7	107%	50 - 150	VMSC	05/10/11 12:16	11E0095
Methyl tert-Butyl Ether	43 9		ug/m³ Air	1 44	2 00	40 2	109%	50 - 150	VMSC	05/10/11 12:16	11E0095
Vinyl acetate	23 2		ug/m³ Air	1 41	2 00	40 4	57%	50 - 150	VMSC	05/10/11 12:16	11E0095
2-Butanone (MEK)	34 7		ug/m³ Air	1 18	2 00	33 8	102%	50 - 150	VMSC	05/10/11 12:16	11E0095
cis-1,2-Dichloroethene	46 4		ug/m³ Air	1 59	2 00	44 6	104%	50 - 150	VMSC	05/10/11 12:16	11E0095
Hexane	40 4		ug/m³ Air	1 41	2 00	41 2	98%	50 - 150	VMSC	05/10/11 12:16	11E0095
Chloroform	58 9		ug/m³ Air	1 95	2 00	52 9	111%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,2-Dichloroethane	46 1		ug/m³ Air	1 62	2 00	44 7	103%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,1,1-Trichloroethane	71 1		ug/m³ Air	2 18	2 00	59 7	119%	50 - 150	VMSC	05/10/11 12:16	11E0095
Benzene	36 5		ug/m³ Air	1 28	2 00	35 3	103%	50 - 150	VMSC	05/10/11 12:16	11E0095
Carbon tetrachloride	16 7	L4	ug/m³ Air	2 52	2 00	72 2	23%	50 - 150	VMSC	05/10/11 12:16	11E0095
Cyclohexane	37 3		ug/m³ Air	1 38	2 00	38 8	96%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,2-Dichloropropane	52 3		ug/m³ Air	1 85	2 00	51 5	102%	50 - 150	VMSC	05/10/11 12:16	11E0095
Bromodichloromethane	62 2		ug/m³ Air	2 68	2 00	75 5	82%	50 - 150	VMSC	05/10/11 12:16	11E0095
Trichloroethene	61 8		ug/m³ Air	2 15	2 00	60 5	102%	50 - 150	VMSC	05/10/11 12:16	11E0095
Heptane	42 2		ug/m³ Air	1 64	2 00	46 2	92%	50 - 150	VMSC	05/10/11 12:16	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0095-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
cis-1,3-Dichloropropene	58 3		ug/m³ Air	1 82	2 00	52 1	112%	50 - 150	VMSC	05/10/11 12:16	11E0095
4-Methyl-2-pentanone (MIBK)	54 3		ug/m³ Air	1 64	2 00	47 4	115%	50 - 150	VMSC	05/10/11 12:16	11E0095
trans-1,3-Dichloropropene	52 4		ug/m³ Air	1 82	2 00	47 7	110%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,1,2-Trichloroethane	62 0		ug/m³ Air	2 18	2 00	60 8	102%	50 - 150	VMSC	05/10/11 12:16	11E0095
Toluene	42 8		ug/m³ Air	1 51	2 00	42 4	101%	50 - 150	VMSC	05/10/11 12:16	11E0095
2-Hexanone	53 5		ug/m³ Air	1 64	2 00	47 0	114%	50 - 150	VMSC	05/10/11 12:16	11E0095
Chlorodibromomethane	64 2		ug/m³ Air	3 41	2 00	96 8	66%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,2-Dibromoethane (EDB)	86 0		ug/m³ Air	3 07	2 00	85 7	100%	50 - 150	VMSC	05/10/11 12:16	11E0095
n-Octane	45 9		ug/m³ Air	1 87	2 00	50 6	91%	50 - 150	VMSC	05/10/11 12:16	11E0095
Tetrachloroethene	81 1		ug/m³ Air	2 71	2 00	71 3	114%	50 - 150	VMSC	05/10/11 12:16	11E0095
Chlorobenzene	52 3		ug/m³ Air	1 84	2 00	52 3	100%	50 - 150	VMSC	05/10/11 12:16	11E0095
Ethylbenzene	54 9		ug/m³ Air	1 74	2 00	48 9	112%	50 - 150	VMSC	05/10/11 12:16	11E0095
m-Xylene & p-Xylene	104		ug/m³ Air	3 47	2 00	95 9	108%	50 - 150	VMSC	05/10/11 12:16	11E0095
Bromoform	48 6	L4	ug/m³ Air	4 13	2 00	114	43%	50 - 150	VMSC	05/10/11 12:16	11E0095
Styrene	54 0		ug/m³ Air	1 70	2 00	48 4	111%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,1,2,2-Tetrachloroethane	70 3		ug/m³ Air	2 75	2 00	78 7	89%	50 - 150	VMSC	05/10/11 12:16	11E0095
o-Xylene	54 0		ug/m³ Air	1 74	2 00	49 8	108%	50 - 150	VMSC	05/10/11 12:16	11E0095
n-Nonane	55 7		ug/m³ Air	2 10	2 00	56 8	98%	50 - 150	VMSC	05/10/11 12:16	11E0095
Isopropylbenzene	65 2		ug/m³ Air	1 97	2 00	52 8	124%	50 - 150	VMSC	05/10/11 12:16	11E0095
n-Propylbenzene	56 1		ug/m³ Air	1 97	2 00	52 2	107%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,3,5-Trimethylbenzene	67 9		ug/m³ Air	1 97	2 00	54 8	124%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,2,4-Trimethylbenzene	69 1		ug/m³ Air	1 97	2 00	54 3	127%	50 - 150	VMSC	05/10/11 12:16	11E0095
Benzyl chloride	**92.2**	**L1**	**ug/m³ Air**	**2.07**	**2.00**	**58 8**	**157%**	**50 - 150**	**VMSC**	**05/10/11 12:16**	**11E0095**
1,3-Dichlorobenzene	73 0	B	ug/m³ Air	2 40	2 00	68 3	107%	50 - 150	VMSC	05/10/11 12:16	11E0095
n-Decane	59 7		ug/m³ Air	2 33	2 00	64 2	93%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,4-Dichlorobenzene	71 1	B	ug/m³ Air	2 40	2 00	66 4	107%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,2-Dichlorobenzene	74 2	B	ug/m³ Air	2 40	2 00	68 3	109%	50 - 150	VMSC	05/10/11 12:16	11E0095
n-Undecane	79 1		ug/m³ Air	2 56	2 00	70 6	112%	50 - 150	VMSC	05/10/11 12:16	11E0095
1,2,4-Trichlorobenzene	63 3	B	ug/m³ Air	2 97	2 00	85 9	74%	50 - 150	VMSC	05/10/11 12:16	11E0095
Naphthalene	46 5	B	ug/m³ Air	2 10	2 00	57 4	81%	50 - 150	VMSC	05/10/11 12:16	11E0095
Hexachlorobutadiene	93 2	B	ug/m³ Air	4 27	2 00	120	78%	50 - 150	VMSC	05/10/11 12:16	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*103%*								VMSC	05/10/11 12:16	11E0095
Surr: Fluorobenzene (62-122%)	*104%*								VMSC	05/10/11 12:16	11E0095
Surr: Toluene-d8 (67-127%)	*100%*								VMSC	05/10/11 12:16	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*97%*								VMSC	05/10/11 12:16	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*92%*								VMSC	05/10/11 12:16	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0119-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	40 1		ug/m³ Air	1 41	2 00	38 2	105%	50 - 150	VMSC	05/11/11 14:27	11E0119
Dichlorodifluoromethane	56 8		ug/m³ Air	1 98	2 00	51 8	110%	50 - 150	VMSC	05/11/11 14:27	11E0119
Chloromethane	23 3		ug/m³ Air	0 826	2 00	21 9	107%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,2-Dichloro-1,1,2,2-tetrafluoroethane	67 6		ug/m³ Air	2 80	2 00	73 3	92%	50 - 150	VMSC	05/11/11 14:27	11E0119
Vinyl chloride	29 0		ug/m³ Air	1 02	2 00	27 0	107%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,3-Butadiene	26 2		ug/m³ Air	0 885	2 00	23 9	110%	50 - 150	VMSC	05/11/11 14:27	11E0119
Butane	23 7		ug/m³ Air	0 951	2 00	24 2	98%	50 - 150	VMSC	05/11/11 14:27	11E0119
Bromomethane	45 9		ug/m³ Air	1 55	2 00	40 7	113%	50 - 150	VMSC	05/11/11 14:27	11E0119
Chloroethane	31 6		ug/m³ Air	1 06	2 00	27 4	115%	50 - 150	VMSC	05/11/11 14:27	11E0119
Acetonitrile	21 0		ug/m³ Air	0 672	2 00	17 6	119%	50 - 150	VMSC	05/11/11 14:27	11E0119
Trichlorofluoromethane	71 4		ug/m³ Air	2 25	2 00	60 1	119%	50 - 150	VMSC	05/11/11 14:27	11E0119
Acetone	31 4	B	ug/m³ Air	0 950	2 00	25 6	123%	50 - 150	VMSC	05/11/11 14:27	11E0119
Acrylonitrile	32 2		ug/m³ Air	0 868	2 00	23 4	138%	50 - 150	VMSC	05/11/11 14:27	11E0119
n-Pentane	35 6		ug/m³ Air	1 18	2 00	31 8	112%	50 - 150	VMSC	05/11/11 14:27	11E0119
Diethyl ether	42 3		ug/m³ Air	1 21	2 00	32 7	129%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,1-Dichloroethene	53 2		ug/m³ Air	1 59	2 00	43 2	123%	50 - 150	VMSC	05/11/11 14:27	11E0119
Methylene chloride	44 7		ug/m³ Air	1 39	2 00	37 1	120%	50 - 150	VMSC	05/11/11 14:27	11E0119
Carbon disulfide	41 1		ug/m³ Air	1 25	2 00	33 9	121%	50 - 150	VMSC	05/11/11 14:27	11E0119
Allyl chloride	42 5		ug/m³ Air	1 25	2 00	33 5	127%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,1,2-Trichlorotrifluoroethane	102		ug/m³ Air	3 07	2 00	84 3	120%	50 - 150	VMSC	05/11/11 14:27	11E0119
trans-1,2-Dichloroethene	48 6		ug/m³ Air	1 59	2 00	42 0	116%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,1-Dichloroethane	51 9		ug/m³ Air	1 62	2 00	44 1	118%	50 - 150	VMSC	05/11/11 14:27	11E0119
Methyl tert-Butyl Ether	45 8		ug/m³ Air	1 44	2 00	39 7	115%	50 - 150	VMSC	05/11/11 14:27	11E0119
Vinyl acetate	45 6		ug/m³ Air	1 41	2 00	39 9	114%	50 - 150	VMSC	05/11/11 14:27	11E0119
2-Butanone (MEK)	37 3		ug/m³ Air	1 18	2 00	33 4	112%	50 - 150	VMSC	05/11/11 14:27	11E0119
cis-1,2-Dichloroethene	51 3		ug/m³ Air	1 59	2 00	44 1	116%	50 - 150	VMSC	05/11/11 14:27	11E0119
Hexane	43 8		ug/m³ Air	1 41	2 00	40 6	108%	50 - 150	VMSC	05/11/11 14:27	11E0119
Chloroform	64 3		ug/m³ Air	1 95	2 00	52 2	123%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,2-Dichloroethane	50 8		ug/m³ Air	1 62	2 00	44 1	115%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,1,1-Trichloroethane	75 3		ug/m³ Air	2 18	2 00	58 9	128%	50 - 150	VMSC	05/11/11 14:27	11E0119
Benzene	37 0		ug/m³ Air	1 28	2 00	34 8	106%	50 - 150	VMSC	05/11/11 14:27	11E0119
Carbon tetrachloride	89 8		ug/m³ Air	2 52	2 00	71 2	126%	50 - 150	VMSC	05/11/11 14:27	11E0119
Cyclohexane	36 5		ug/m³ Air	1 38	2 00	38 2	95%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,2-Dichloropropane	53 8		ug/m³ Air	1 85	2 00	50 8	106%	50 - 150	VMSC	05/11/11 14:27	11E0119
Bromodichloromethane	81 7		ug/m³ Air	2 68	2 00	74 4	110%	50 - 150	VMSC	05/11/11 14:27	11E0119
Trichloroethene	63 8		ug/m³ Air	2 15	2 00	59 7	107%	50 - 150	VMSC	05/11/11 14:27	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0119-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Heptane	43 1		ug/m³ Air	1 64	2 00	45 5	95%	50 - 150	VMSC	05/11/11 14:27	11E0119
cis-1,3-Dichloropropene	60 8		ug/m³ Air	1 82	2 00	51 4	118%	50 - 150	VMSC	05/11/11 14:27	11E0119
4-Methyl-2-pentanone (MIBK)	54 1		ug/m³ Air	1 64	2 00	46 8	116%	50 - 150	VMSC	05/11/11 14:27	11E0119
trans-1,3-Dichloropropene	57 7		ug/m³ Air	1 82	2 00	47 1	122%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,1,2-Trichloroethane	64 2		ug/m³ Air	2 18	2 00	60 0	107%	50 - 150	VMSC	05/11/11 14:27	11E0119
Toluene	44 0		ug/m³ Air	1 51	2 00	41 9	105%	50 - 150	VMSC	05/11/11 14:27	11E0119
2-Hexanone	52 5		ug/m³ Air	1 64	2 00	46 4	113%	50 - 150	VMSC	05/11/11 14:27	11E0119
Chlorodibromomethane	134		ug/m³ Air	3 41	2 00	95 5	140%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,2-Dibromoethane (EDB)	90 0		ug/m³ Air	3 07	2 00	84 5	106%	50 - 150	VMSC	05/11/11 14:27	11E0119
n-Octane	46 8		ug/m³ Air	1 87	2 00	49 9	94%	50 - 150	VMSC	05/11/11 14:27	11E0119
Tetrachloroethene	84 3		ug/m³ Air	2 71	2 00	70 4	120%	50 - 150	VMSC	05/11/11 14:27	11E0119
Chlorobenzene	54 9		ug/m³ Air	1 84	2 00	51 6	106%	50 - 150	VMSC	05/11/11 14:27	11E0119
Ethylbenzene	57 0		ug/m³ Air	1 74	2 00	48 2	118%	50 - 150	VMSC	05/11/11 14:27	11E0119
m-Xylene & p-Xylene	114		ug/m³ Air	3 47	2 00	94 7	120%	50 - 150	VMSC	05/11/11 14:27	11E0119
Bromoform	**209**	**L1**	**ug/m³ Air**	**4.13**	**2.00**	**113**	**185%**	**50 - 150**	**VMSC**	**05/11/11 14:27**	**11E0119**
Styrene	57 0		ug/m³ Air	1 70	2 00	47 8	119%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,1,2,2-Tetrachloroethane	73 1		ug/m³ Air	2 75	2 00	77 7	94%	50 - 150	VMSC	05/11/11 14:27	11E0119
o-Xylene	56 2		ug/m³ Air	1 74	2 00	49 2	114%	50 - 150	VMSC	05/11/11 14:27	11E0119
n-Nonane	57 7		ug/m³ Air	2 10	2 00	56 1	103%	50 - 150	VMSC	05/11/11 14:27	11E0119
Isopropylbenzene	67 9		ug/m³ Air	1 97	2 00	52 0	131%	50 - 150	VMSC	05/11/11 14:27	11E0119
n-Propylbenzene	59 0		ug/m³ Air	1 97	2 00	51 5	114%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,3,5-Trimethylbenzene	70 7		ug/m³ Air	1 97	2 00	54 1	131%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,2,4-Trimethylbenzene	71 4		ug/m³ Air	1 97	2 00	53 6	133%	50 - 150	VMSC	05/11/11 14:27	11E0119
Benzyl chloride	**101**	**L1**	**ug/m³ Air**	**2.07**	**2.00**	**58.0**	**174%**	**50 - 150**	**VMSC**	**05/11/11 14:27**	**11E0119**
1,3-Dichlorobenzene	75 6	B	ug/m³ Air	2 40	2 00	67 4	112%	50 - 150	VMSC	05/11/11 14:27	11E0119
n-Decane	58 7		ug/m³ Air	2 33	2 00	63 4	93%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,4-Dichlorobenzene	73 9	B	ug/m³ Air	2 40	2 00	65 5	113%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,2-Dichlorobenzene	72 3	B	ug/m³ Air	2 40	2 00	67 4	107%	50 - 150	VMSC	05/11/11 14:27	11E0119
n-Undecane	93 2		ug/m³ Air	2 56	2 00	69 7	134%	50 - 150	VMSC	05/11/11 14:27	11E0119
1,2,4-Trichlorobenzene	117	B	ug/m³ Air	2 97	2 00	84 8	138%	50 - 150	VMSC	05/11/11 14:27	11E0119
Naphthalene	**88.8**	**L1, B**	**ug/m³ Air**	**2.10**	**2.00**	**56.6**	**157%**	**50 - 150**	**VMSC**	**05/11/11 14:27**	**11E0119**
Hexachlorobutadiene	**188**	**L1, B**	**ug/m³ Air**	**4.27**	**2.00**	**119**	**159%**	**50 - 150**	**VMSC**	**05/11/11 14:27**	**11E0119**
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*102%*								VMSC	05/11/11 14:27	11E0119
Surr: Fluorobenzene (62-122%)	*103%*								VMSC	05/11/11 14:27	11E0119
Surr: Toluene-d8 (67-127%)	*95%*								VMSC	05/11/11 14:27	11E0119
Surr: 1,4-Dichlorobutane (76-136%)	*101%*								VMSC	05/11/11 14:27	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11E0119-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Surr: 4-Bromofluorobenzene (73-133%)	*97%*								VMSC	05/11/11 14:27	11E0119

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11E0095-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	38 9		ug/m³ Air	1 41	2 00	38 7	101%	50 - 150	0 5	25	05/10/11 13:19	11E0095
Dichlorodifluoromethane	54 5		ug/m³ Air	1 98	2 00	52 5	104%	50 - 150	1	25	05/10/11 13:19	11E0095
Chloromethane	22 9		ug/m³ Air	0 826	2 00	22 2	103%	50 - 150	0 6	25	05/10/11 13:19	11E0095
1,2-Dichloro-1,1,2,2-tetrafluoroethane	65 5		ug/m³ Air	2 80	2 00	74 2	88%	50 - 150	0 4	25	05/10/11 13:19	11E0095
Vinyl chloride	28 0		ug/m³ Air	1 02	2 00	27 4	102%	50 - 150	2	25	05/10/11 13:19	11E0095
1,3-Butadiene	24 0		ug/m³ Air	0 885	2 00	24 2	99%	50 - 150	4	25	05/10/11 13:19	11E0095
Butane	22 9		ug/m³ Air	0 951	2 00	24 5	94%	50 - 150	0 6	25	05/10/11 13:19	11E0095
Bromomethane	43 4		ug/m³ Air	1 55	2 00	41 2	105%	50 - 150	2	25	05/10/11 13:19	11E0095
Chloroethane	27 9		ug/m³ Air	1 06	2 00	27 7	101%	50 - 150	4	25	05/10/11 13:19	11E0095
Acetonitrile	20 0		ug/m³ Air	0 672	2 00	17 8	112%	50 - 150	1	25	05/10/11 13:19	11E0095
Trichlorofluoromethane	67 5		ug/m³ Air	2 25	2 00	60 9	111%	50 - 150	3	25	05/10/11 13:19	11E0095
Acetone	29 5	B	ug/m³ Air	0 950	2 00	26 0	114%	50 - 150	0 5	25	05/10/11 13:19	11E0095
Acrylonitrile	28 8		ug/m³ Air	0 868	2 00	23 7	121%	50 - 150	3	25	05/10/11 13:19	11E0095
n-Pentane	32 2		ug/m³ Air	1 18	2 00	32 3	100%	50 - 150	4	25	05/10/11 13:19	11E0095
Diethyl ether	38 3		ug/m³ Air	1 21	2 00	33 2	115%	50 - 150	1	25	05/10/11 13:19	11E0095
1,1-Dichloroethene	46 9		ug/m³ Air	1 59	2 00	43 8	107%	50 - 150	4	25	05/10/11 13:19	11E0095
Methylene chloride	39 7		ug/m³ Air	1 39	2 00	37 6	105%	50 - 150	2	25	05/10/11 13:19	11E0095
Carbon disulfide	35 9		ug/m³ Air	1 25	2 00	34 4	104%	50 - 150	2	25	05/10/11 13:19	11E0095
Allyl chloride	30 4		ug/m³ Air	1 25	2 00	33 9	90%	50 - 150	3	25	05/10/11 13:19	11E0095
1,1,2-Trichlorotrifluoroethane	98 5		ug/m³ Air	3 07	2 00	85 5	115%	50 - 150	0 3	25	05/10/11 13:19	11E0095
trans-1,2-Dichloroethene	42 9		ug/m³ Air	1 59	2 00	42 5	101%	50 - 150	4	25	05/10/11 13:19	11E0095
1,1-Dichloroethane	46 5		ug/m³ Air	1 62	2 00	44 7	104%	50 - 150	3	25	05/10/11 13:19	11E0095
Methyl tert-Butyl Ether	44 4		ug/m³ Air	1 44	2 00	40 2	111%	50 - 150	1	25	05/10/11 13:19	11E0095
Vinyl acetate	22 4		ug/m³ Air	1 41	2 00	40 4	55%	50 - 150	4	50	05/10/11 13:19	11E0095
2-Butanone (MEK)	34 3		ug/m³ Air	1 18	2 00	33 8	102%	50 - 150	1	25	05/10/11 13:19	11E0095
cis-1,2-Dichloroethene	45 3		ug/m³ Air	1 59	2 00	44 6	101%	50 - 150	2	25	05/10/11 13:19	11E0095
Hexane	39 4		ug/m³ Air	1 41	2 00	41 2	96%	50 - 150	2	25	05/10/11 13:19	11E0095
Chloroform	57 2		ug/m³ Air	1 95	2 00	52 9	108%	50 - 150	3	25	05/10/11 13:19	11E0095
1,2-Dichloroethane	44 6		ug/m³ Air	1 62	2 00	44 7	100%	50 - 150	3	25	05/10/11 13:19	11E0095
1,1,1-Trichloroethane	69 4		ug/m³ Air	2 18	2 00	59 7	116%	50 - 150	2	25	05/10/11 13:19	11E0095
Benzene	36 9		ug/m³ Air	1 28	2 00	35 3	105%	50 - 150	1	25	05/10/11 13:19	11E0095
Carbon tetrachloride	17 1	L4	ug/m³ Air	2 52	2 00	72 2	24%	50 - 150	2	25	05/10/11 13:19	11E0095
Cyclohexane	38 6		ug/m³ Air	1 38	2 00	38 8	99%	50 - 150	3	25	05/10/11 13:19	11E0095
1,2-Dichloropropane	53 1		ug/m³ Air	1 85	2 00	51 5	103%	50 - 150	1	25	05/10/11 13:19	11E0095
Bromodichloromethane	62 9		ug/m³ Air	2 68	2 00	75 5	83%	50 - 150	1	25	05/10/11 13:19	11E0095
Trichloroethene	62 8		ug/m³ Air	2 15	2 00	60 5	104%	50 - 150	2	25	05/10/11 13:19	11E0095
Heptane	43 0		ug/m³ Air	1 64	2 00	46 2	93%	50 - 150	2	25	05/10/11 13:19	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11E0095-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
cis-1,3-Dichloropropene	59 8		ug/m³ Air	1 82	2 00	52 1	115%	50 - 150	3	25	05/10/11 13:19	11E0095
4-Methyl-2-pentanone (MIBK)	55 5		ug/m³ Air	1 64	2 00	47 4	117%	50 - 150	2	25	05/10/11 13:19	11E0095
trans-1,3-Dichloropropene	53 7		ug/m³ Air	1 82	2 00	47 7	113%	50 - 150	3	25	05/10/11 13:19	11E0095
1,1,2-Trichloroethane	62 9		ug/m³ Air	2 18	2 00	60 8	103%	50 - 150	2	25	05/10/11 13:19	11E0095
Toluene	43 5		ug/m³ Air	1 51	2 00	42 4	102%	50 - 150	1	25	05/10/11 13:19	11E0095
2-Hexanone	54 0		ug/m³ Air	1 64	2 00	47 0	115%	50 - 150	0 9	25	05/10/11 13:19	11E0095
Chlorodibromomethane	65 1		ug/m³ Air	3 41	2 00	96 8	67%	50 - 150	1	25	05/10/11 13:19	11E0095
1,2-Dibromoethane (EDB)	87 9		ug/m³ Air	3 07	2 00	85 7	103%	50 - 150	2	25	05/10/11 13:19	11E0095
n-Octane	46 6		ug/m³ Air	1 87	2 00	50 6	92%	50 - 150	2	25	05/10/11 13:19	11E0095
Tetrachloroethene	82 7		ug/m³ Air	2 71	2 00	71 3	116%	50 - 150	2	25	05/10/11 13:19	11E0095
Chlorobenzene	53 7		ug/m³ Air	1 84	2 00	52 3	103%	50 - 150	3	25	05/10/11 13:19	11E0095
Ethylbenzene	56 1		ug/m³ Air	1 74	2 00	48 9	115%	50 - 150	2	25	05/10/11 13:19	11E0095
m-Xylene & p-Xylene	105		ug/m³ Air	3 47	2 00	95 9	110%	50 - 150	1	25	05/10/11 13:19	11E0095
Bromoform	49 2	L4	ug/m³ Air	4 13	2 00	114	43%	50 - 150	1	25	05/10/11 13:19	11E0095
Styrene	55 5		ug/m³ Air	1 70	2 00	48 4	115%	50 - 150	3	25	05/10/11 13:19	11E0095
1,1,2,2-Tetrachloroethane	71 8		ug/m³ Air	2 75	2 00	78 7	91%	50 - 150	2	25	05/10/11 13:19	11E0095
o-Xylene	55 0		ug/m³ Air	1 74	2 00	49 8	110%	50 - 150	2	25	05/10/11 13:19	11E0095
n-Nonane	57 0		ug/m³ Air	2 10	2 00	56 8	100%	50 - 150	2	25	05/10/11 13:19	11E0095
Isopropylbenzene	66 6		ug/m³ Air	1 97	2 00	52 8	126%	50 - 150	2	50	05/10/11 13:19	11E0095
n-Propylbenzene	57 3		ug/m³ Air	1 97	2 00	52 2	110%	50 - 150	2	25	05/10/11 13:19	11E0095
1,3,5-Trimethylbenzene	69 1		ug/m³ Air	1 97	2 00	54 8	126%	50 - 150	2	25	05/10/11 13:19	11E0095
1,2,4-Trimethylbenzene	70 6		ug/m³ Air	1 97	2 00	54 3	130%	50 - 150	2	25	05/10/11 13:19	11E0095
Benzyl chloride	**91.8**	**L1**	**ug/m³ Air**	**2.07**	**2.00**	**58 8**	**156%**	**50 - 150**	**0.5**	**25**	**05/10/11 13:19**	**11E0095**
1,3-Dichlorobenzene	75 0	B	ug/m³ Air	2 40	2 00	68 3	110%	50 - 150	3	25	05/10/11 13:19	11E0095
n-Decane	59 7		ug/m³ Air	2 33	2 00	64 2	93%	50 - 150	0 09	25	05/10/11 13:19	11E0095
1,4-Dichlorobenzene	72 8	B	ug/m³ Air	2 40	2 00	66 4	110%	50 - 150	2	25	05/10/11 13:19	11E0095
1,2-Dichlorobenzene	73 9	B	ug/m³ Air	2 40	2 00	68 3	108%	50 - 150	0 5	25	05/10/11 13:19	11E0095
n-Undecane	87 0		ug/m³ Air	2 56	2 00	70 6	123%	50 - 150	9	25	05/10/11 13:19	11E0095
1,2,4-Trichlorobenzene	85 7	R2, B	ug/m³ Air	2 97	2 00	85 9	100%	50 - 150	30	25	05/10/11 13:19	11E0095
Naphthalene	61 7	R2, B	ug/m³ Air	2 10	2 00	57 4	108%	50 - 150	28	25	05/10/11 13:19	11E0095
Hexachlorobutadiene	136	R2, B	ug/m³ Air	4 27	2 00	120	113%	50 - 150	37	25	05/10/11 13:19	11E0095
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*102%*										05/10/11 13:19	11E0095
Surr: Fluorobenzene (62-122%)	*98%*										05/10/11 13:19	11E0095
Surr: Toluene-d8 (67-127%)	*99%*										05/10/11 13:19	11E0095
Surr: 1,4-Dichlorobutane (76-136%)	*99%*										05/10/11 13:19	11E0095
Surr: 4-Bromofluorobenzene (73-133%)	*95%*										05/10/11 13:19	11E0095

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11E0119-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	37 6		ug/m³ Air	1 41	2 00	38 2	98%	50 - 150	6	25	05/11/11 15:30	11E0119
Dichlorodifluoromethane	53 3		ug/m³ Air	1 98	2 00	51 8	103%	50 - 150	6	25	05/11/11 15:30	11E0119
Chloromethane	22 2		ug/m³ Air	0 826	2 00	21 9	102%	50 - 150	5	25	05/11/11 15:30	11E0119
1,2-Dichloro-1,1,2,2-tetrafluoroethane	63 7		ug/m³ Air	2 80	2 00	73 3	87%	50 - 150	6	25	05/11/11 15:30	11E0119
Vinyl chloride	27 3		ug/m³ Air	1 02	2 00	27 0	101%	50 - 150	6	25	05/11/11 15:30	11E0119
1,3-Butadiene	23 9		ug/m³ Air	0 885	2 00	23 9	100%	50 - 150	9	25	05/11/11 15:30	11E0119
Butane	22 2		ug/m³ Air	0 951	2 00	24 2	92%	50 - 150	6	25	05/11/11 15:30	11E0119
Bromomethane	42 6		ug/m³ Air	1 55	2 00	40 7	105%	50 - 150	8	25	05/11/11 15:30	11E0119
Chloroethane	28 6		ug/m³ Air	1 06	2 00	27 4	104%	50 - 150	10	25	05/11/11 15:30	11E0119
Acetonitrile	18 7		ug/m³ Air	0 672	2 00	17 6	106%	50 - 150	12	25	05/11/11 15:30	11E0119
Trichlorofluoromethane	66 3		ug/m³ Air	2 25	2 00	60 1	110%	50 - 150	7	25	05/11/11 15:30	11E0119
Acetone	28 3	B	ug/m³ Air	0 950	2 00	25 6	111%	50 - 150	10	25	05/11/11 15:30	11E0119
Acrylonitrile	28 5		ug/m³ Air	0 868	2 00	23 4	122%	50 - 150	12	25	05/11/11 15:30	11E0119
n-Pentane	31 7		ug/m³ Air	1 18	2 00	31 8	100%	50 - 150	12	25	05/11/11 15:30	11E0119
Diethyl ether	38 3		ug/m³ Air	1 21	2 00	32 7	117%	50 - 150	10	25	05/11/11 15:30	11E0119
1,1-Dichloroethene	47 0		ug/m³ Air	1 59	2 00	43 2	109%	50 - 150	12	25	05/11/11 15:30	11E0119
Methylene chloride	39 7		ug/m³ Air	1 39	2 00	37 1	107%	50 - 150	12	25	05/11/11 15:30	11E0119
Carbon disulfide	36 7		ug/m³ Air	1 25	2 00	33 9	108%	50 - 150	11	25	05/11/11 15:30	11E0119
Allyl chloride	37 9		ug/m³ Air	1 25	2 00	33 5	113%	50 - 150	12	25	05/11/11 15:30	11E0119
1,1,2-Trichlorotrifluoroethane	96 6		ug/m³ Air	3 07	2 00	84 3	115%	50 - 150	5	25	05/11/11 15:30	11E0119
trans-1,2-Dichloroethene	42 8		ug/m³ Air	1 59	2 00	42 0	102%	50 - 150	13	25	05/11/11 15:30	11E0119
1,1-Dichloroethane	46 4		ug/m³ Air	1 62	2 00	44 1	105%	50 - 150	11	25	05/11/11 15:30	11E0119
Methyl tert-Butyl Ether	43 2		ug/m³ Air	1 44	2 00	39 7	109%	50 - 150	6	25	05/11/11 15:30	11E0119
Vinyl acetate	40 1		ug/m³ Air	1 41	2 00	39 9	101%	50 - 150	13	50	05/11/11 15:30	11E0119
2-Butanone (MEK)	33 4		ug/m³ Air	1 18	2 00	33 4	100%	50 - 150	11	25	05/11/11 15:30	11E0119
cis-1,2-Dichloroethene	45 1		ug/m³ Air	1 59	2 00	44 1	102%	50 - 150	13	25	05/11/11 15:30	11E0119
Hexane	39 0		ug/m³ Air	1 41	2 00	40 6	96%	50 - 150	12	25	05/11/11 15:30	11E0119
Chloroform	56 6		ug/m³ Air	1 95	2 00	52 2	108%	50 - 150	13	25	05/11/11 15:30	11E0119
1,2-Dichloroethane	44 2		ug/m³ Air	1 62	2 00	44 1	100%	50 - 150	14	25	05/11/11 15:30	11E0119
1,1,1-Trichloroethane	68 9		ug/m³ Air	2 18	2 00	58 9	117%	50 - 150	9	25	05/11/11 15:30	11E0119
Benzene	35 5		ug/m³ Air	1 28	2 00	34 8	102%	50 - 150	4	25	05/11/11 15:30	11E0119
Carbon tetrachloride	88 5		ug/m³ Air	2 52	2 00	71 2	124%	50 - 150	1	25	05/11/11 15:30	11E0119
Cyclohexane	36 6		ug/m³ Air	1 38	2 00	38 2	96%	50 - 150	0 2	25	05/11/11 15:30	11E0119
1,2-Dichloropropane	51 6		ug/m³ Air	1 85	2 00	50 8	101%	50 - 150	4	25	05/11/11 15:30	11E0119
Bromodichloromethane	77 6		ug/m³ Air	2 68	2 00	74 4	104%	50 - 150	5	25	05/11/11 15:30	11E0119
Trichloroethene	60 6		ug/m³ Air	2 15	2 00	59 7	102%	50 - 150	5	25	05/11/11 15:30	11E0119

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
14050 Summit Drive, Suite A100 Austin, TX 78728 * 512-244-0855 * Fax 512-244-0160

Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUD0201 Project: Bannister Complex Project Number: [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31	

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11E0119-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Heptane	41 3		ug/m³ Air	1 64	2 00	45 5	91%	50 - 150	4	25	05/11/11 15:30	11E0119
cis-1,3-Dichloropropene	57 3		ug/m³ Air	1 82	2 00	51 4	111%	50 - 150	6	25	05/11/11 15:30	11E0119
4-Methyl-2-pentanone (MIBK)	53 5		ug/m³ Air	1 64	2 00	46 8	114%	50 - 150	1	25	05/11/11 15:30	11E0119
trans-1,3-Dichloropropene	54 3		ug/m³ Air	1 82	2 00	47 1	115%	50 - 150	6	25	05/11/11 15:30	11E0119
1,1,2-Trichloroethane	61 0		ug/m³ Air	2 18	2 00	60 0	102%	50 - 150	5	25	05/11/11 15:30	11E0119
Toluene	41 8		ug/m³ Air	1 51	2 00	41 9	100%	50 - 150	5	25	05/11/11 15:30	11E0119
2-Hexanone	52 0		ug/m³ Air	1 64	2 00	46 4	112%	50 - 150	1	25	05/11/11 15:30	11E0119
Chlorodibromomethane	126		ug/m³ Air	3 41	2 00	95 5	132%	50 - 150	6	25	05/11/11 15:30	11E0119
1,2-Dibromoethane (EDB)	84 8		ug/m³ Air	3 07	2 00	84 5	100%	50 - 150	6	25	05/11/11 15:30	11E0119
n-Octane	44 7		ug/m³ Air	1 87	2 00	49 9	89%	50 - 150	5	25	05/11/11 15:30	11E0119
Tetrachloroethene	80 2		ug/m³ Air	2 71	2 00	70 4	114%	50 - 150	5	25	05/11/11 15:30	11E0119
Chlorobenzene	52 1		ug/m³ Air	1 84	2 00	51 6	101%	50 - 150	5	25	05/11/11 15:30	11E0119
Ethylbenzene	54 1		ug/m³ Air	1 74	2 00	48 2	112%	50 - 150	5	25	05/11/11 15:30	11E0119
m-Xylene & p-Xylene	108		ug/m³ Air	3 47	2 00	94 7	114%	50 - 150	6	25	05/11/11 15:30	11E0119
Bromoform	**198**	**L1**	**ug/m³ Air**	**4.13**	**2.00**	**113**	**176%**	**50 - 150**	**5**	**25**	**05/11/11 15:30**	**11E0119**
Styrene	53 8		ug/m³ Air	1 70	2 00	47 8	113%	50 - 150	6	25	05/11/11 15:30	11E0119
1,1,2,2-Tetrachloroethane	69 5		ug/m³ Air	2 75	2 00	77 7	89%	50 - 150	5	25	05/11/11 15:30	11E0119
o-Xylene	53 4		ug/m³ Air	1 74	2 00	49 2	109%	50 - 150	5	25	05/11/11 15:30	11E0119
n-Nonane	54 5		ug/m³ Air	2 10	2 00	56 1	97%	50 - 150	6	25	05/11/11 15:30	11E0119
Isopropylbenzene	64 8		ug/m³ Air	1 97	2 00	52 0	125%	50 - 150	5	50	05/11/11 15:30	11E0119
n-Propylbenzene	55 5		ug/m³ Air	1 97	2 00	51 5	108%	50 - 150	6	25	05/11/11 15:30	11E0119
1,3,5-Trimethylbenzene	66 4		ug/m³ Air	1 97	2 00	54 1	123%	50 - 150	6	25	05/11/11 15:30	11E0119
1,2,4-Trimethylbenzene	67 5		ug/m³ Air	1 97	2 00	53 6	126%	50 - 150	6	25	05/11/11 15:30	11E0119
Benzyl chloride	**96.1**	**L1**	**ug/m³ Air**	**2.07**	**2.00**	**58.0**	**166%**	**50 - 150**	**5**	**25**	**05/11/11 15:30**	**11E0119**
1,3-Dichlorobenzene	71 5	B	ug/m³ Air	2 40	2 00	67 4	106%	50 - 150	5	25	05/11/11 15:30	11E0119
n-Decane	56 0		ug/m³ Air	2 33	2 00	63 4	88%	50 - 150	5	25	05/11/11 15:30	11E0119
1,4-Dichlorobenzene	68 9	B	ug/m³ Air	2 40	2 00	65 5	105%	50 - 150	7	25	05/11/11 15:30	11E0119
1,2-Dichlorobenzene	69 2	B	ug/m³ Air	2 40	2 00	67 4	103%	50 - 150	5	25	05/11/11 15:30	11E0119
n-Undecane	88 5		ug/m³ Air	2 56	2 00	69 7	127%	50 - 150	5	25	05/11/11 15:30	11E0119
1,2,4-Trichlorobenzene	105	B	ug/m³ Air	2 97	2 00	84 8	124%	50 - 150	10	25	05/11/11 15:30	11E0119
Naphthalene	80 1	B	ug/m³ Air	2 10	2 00	56 6	142%	50 - 150	10	25	05/11/11 15:30	11E0119
Hexachlorobutadiene	165	B	ug/m³ Air	4 27	2 00	119	139%	50 - 150	13	25	05/11/11 15:30	11E0119
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*103%*										05/11/11 15:30	11E0119
Surr: Fluorobenzene (62-122%)	*100%*										05/11/11 15:30	11E0119
Surr: Toluene-d8 (67-127%)	*98%*										05/11/11 15:30	11E0119
Surr: 1,4-Dichlorobutane (76-136%)	*100%*										05/11/11 15:30	11E0119

TestAmerica
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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11E0119-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Surr: 4-Bromofluorobenzene (73-133%)	*95%*										05/11/11 15:30	11E0119

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14050 Summit Drive, Suite A100 Austin, TX 78728 * 512-244-0855 * Fax 512-244-0160

Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUD0201 Bannister Complex [none]	Received: 04/19/11 09:30 Reported: 05/24/11 16:31

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
C8	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L4	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below the acceptance limits. A low bias to sample results is indicated.
R2	The RPD exceeded the acceptance limit.
ND	Not detected.

TestAmerica – Austin Laboratory Chain of Custody Addendum **Work Order Number** AUD0201

RECEIVED BY: RL. CLIENT: Terracon. Lenexa

DATE/TIME RECEIVED: 4/19/11 0930 PROJECT: Bannister Complex

UNPACKED DATE/TIME: 4/19/11 1330 LOGIN BY: RM LOGIN REVIEWED BY: [illegible]

Number of Shipping Containers Received with COC: 2

VOC SAMPLES: ☑ YES **(IF YES, GO TO SECTIONS 1.0, 2.0, 6.0, & 7.0)**

1.0 CONTAINERS EXAMINED UPON RECEIPT: RL.

Container Sealed: ☑ YES ☐ NO Custody Seal Present: ☐ YES ☑ NO Custody Seal Signed/Dated: ☐ YES ☑ NO

If seal not intact list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: RL.

Canister Valves Closed: ☑ YES ☐ NO Canister Valves Capped: ☑ YES ☐ NO

Sample IDs match COC: ☑ YES ☐ NO Other Equipment Received: ☑ YES ☐ NO

Valve Cap Tightened Properly: ☑ YES ☐ NO Can Size: ☑ 6L ☐ 1L Other: _____

Packing Material Used: (circle) None / Absorbent / Paper / Bubble Wrap

Samples received in Tedlar bags ☐ N/A ☐ YES ☑ NO 9 - Flow Cont.

3.0 CONDITION OF BOTTLES/CONTAINERS **VERIFIED BY:** _____

Sample IDs match COC: ☐ YES ☐ NO Bottles received intact: ☐ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☐ NO Samples received from USDA restricted area: ☐ YES ☐ NO

Chain-of-Custody form properly maintained: ☐ YES ☐ NO VOA trip blanks included: ☐ N/A ☐ YES ☐ NO

4.0 SAMPLE TEMPERATURE UPON RECEIPT BY: _____ **IR THERMOMETER #:** ☐ P5 ☐ P7

Container(s) temperature: TB = Temp. Blank and/or SC = Sample Container CF = Correction Factor *[acceptable tolerance ≤6°C]*

TB ☐ SC ☐ Initial	TB ☐ SC ☐ Initial	TB ☐ SC ☐ Initial	TB ☐ SC ☐ Initial	TB ☐ SC ☐ Initial	TB ☐ SC ☐ Initial	TB ☐ SC ☐ Initial	TB ☐ SC ☐ Initial
CF	CF	CF	CF	CF	CF	CF	CF
Final	Final	Final	Final	Final	Final	Final	Final

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☐ YES ☐ NO

5.0 PRESERVATION CHECKS

PRESERVATION OF SAMPLES REQUIRED: ☐ N/A ☐ YES ☐ VOA Samples **VERIFIED BY:** _____

NOTE: pH CHECK OF SAMPLES PERFORMED AT TIME OF ANALYSIS BY BENCH ANALYST

pH CHECK OF VOLATILE SAMPLES PERFORMED AFTER ANALYSIS BY THE BENCH ANALYST.

Cyanide samples checked for sulfides: ☐ YES ☐ NO

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Chlorine checked per specification (EPA 335.x & N.C.) ☐ YES ☐ NO Free chlorine present: ☐ YES ☐ NO

If preservation is outside acceptable limit, PM notified (_____PM) Date/Time: _____

Volatile samples filled completely: ☐ YES ☐ NO (if no, list ID and approximate amt. of headspace in comments section 7.0)

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

8.0 CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

Project Management Login Review: JNS for DW Date: 4/25/11

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE Revised 04/14/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

AU00201

TestAmerica Austin
14050 Summit Dr.
Suite A-100
Austin, TX 78728
phone: 512-244-0855 fax: 512-244-0160

1 of 1 COCs

Client Contact Information	
Company:	Terracon Consultants Inc
Address:	1390 West 96th Terrace
City/State/Zip	Lenexa, Kansas 66215
Phone:	913-492-7777
FAX:	913-492-7443
Project Name:	Bannister Complex
Site:	Building 4
PO #	

Project Manager:	Wil King
Phone:	913-492-7777
Email:	wwking@terracon.com
Site Contact:	
LAB Contact:	
Analysis Turnaround Time	
Standard (Specify)	X
Rush (Specity)	

Samples Collected By: WWK, CSC, TEE

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
B4-IA1-VOCs	4-15-11 + 4-16-11	2051	2051	30	6	7342987	RA2342	X								X				
B4-IA2-VOCs	4-15-11 + 4-16-11	2053	2053	30	5	7343492	RA2379	X								X				
B4-OA1-VOCs	4-15-11 + 4-16-11	2016	2016	30	7	7301018	RA2144	X									X			
B4-OA2-VOCs	4-15-11 + 4-16-11	2019	2019	28	6	7342868	RA2174	X									X			
B4-Dup-VOCs	4-15-11 + 4-16-11	2053	2053	>30	9	549937	RA2227	X								X				
B4-Blank-VOCs	4-15-11	—	—	—	—	—	RA2199	X												X

Special Instructions/QC Requirements & Comments:
X - Blank

Samples Shipped by:	Date/Time: 4-15-11 / 1530	Samples Received by: 4/19/11 0930
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TAL-4143 (0608)

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

58/196

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

TestAmerica Austin
14050 Summit Dr.
Suite A-100
Austin, TX 78728
phone: 512-244-0855 fax: 512-244-0160

1 of 1 COCs

Client Contact Information	Project Manager: Wil King
Company: Terracon Consultants Inc	Phone: 913-492-7777
Address: 13910 West 96th Terrace	Email: wwking@terracon.com
City/State/Zip Lenexa, Kansas 66215	Site Contact:
Phone: 913-492-7777	LAB Contact:
FAX: 913-492-7443	Analysis Turnaround Time
Project Name: Bannister Complex	Standard (Specify) X
Site: Building 4	Rush (Specity)
PO #	

Samples Collected By: WWK, CSC, TEE

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specity in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
B4CS-SS1-VOCs	4-15-11	1927	2020	25	4	7300950	RA3206	X												X
B4CS-SS2-VOCs	4-15-11	1953	2044	26	4	7300957	HL0939	X												X
B4CS-CS1-VOCs	4-15-11 & 4-16-11	2047	1942	27	4	7343248	RA3324	X								X				
B4CS-CS2-VOCs	4-15-11 & 4-16-11	2049	2049	30	7	7344272	5450	X								X				

Special Instructions/QC Requirements & Comments:
X-Sub-Slab

Samples Shipped by:	Date/Time: 4-18-11 / 1530	Samples Received by: [illegible] 4/19/11 0930
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TAL-4143 (0608)

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

VOC PREP REPORT (by Lab Sample ID)

Lab Samp	Canister ID	Prep Date	Initial Pressure (PSIG)	Final Pressure (PSIG)	Final Pressure ("Hg)	Diluent Added	Initial Dilution Factor	Primary Dilution Factor	Final Dilution
AUD0201-01	RA2342	5/10/2011 4:42:27 PM	-14.64	-2.259332	4.6	17	1	2.560443	2.560443
AUD0201-02	RA2379	5/10/2011 4:42:29 PM	-14.64	-1.964637	4	16.5	1	2.461468	2.461468
AUD0201-03	RA2144	5/10/2011 4:42:44 PM	-14.24	-1.473477	3	16.5	1	2.443892	2.443892
AUD0201-04	RA2174	5/10/2011 4:43:13 PM	-14.24	-1.964637	4	16.5	1	2.541676	2.541676
AUD0201-05	RA2227	5/10/2011 4:43:28 PM	-14.24	-2.455796	5	16.5	1	2.647612	2.647612
AUD0201-06	RA2100	5/10/2011 4:50:00 PM	-14.7	0	0	0	1	1	1
AUD0201-07	RA2206	5/10/2011 4:44:28 PM	-14.64	-2.750491	5.6	16.8	1	2.649395	2.649395
AUD0201-08	HL0939	5/10/2011 4:44:51 PM	-14.64	-3.045187	6.2	16.5	1	2.690858	2.690858
AUD0201-09	RA2324	5/10/2011 4:45:07 PM	-14.64	-2.848723	5.8	16.5	1	2.646024	2.646024
AUD0201-10	5450	5/10/2011 4:45:26 PM	-14.64	-2.455796	5	17	1	2.601729	2.601729

PEER REVIEWED BY _____

Initial Calibration

Response Factor Report VMSC

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration

DMW 5-2-11

Calibration Files
20 =MC050104.D 50 =MC050105.D 100 =MC050106.D
250 =MC050107.D 500 =MC050108.D 750 =MC050109.D

1000 =MC050110.D 20A =MC050113.D 50A =MC050114.D 100A =MC050115.D

		Compound	20	50	100	250	500	750	1000	20A	50A	100A	Avg	%RSD
1)	i	1,1-Dichloro-1-Fluoro	----------	----------	----------	ISTD	----------	----------	----------					
2)	s	2-Bromo-1,1,1-trifl	0.446	0.432	0.449	0.435	0.424	0.403	0.362	0.452	0.422	0.448	0.42659	6.17
3)	t	Ethylene	0.003	0.027	0.031	0.011	0.067	0.036	0.055				0.03300	68.36
4)	t	Acetylene	0.035	0.095	0.112	0.071	0.165	0.127	0.157				0.10874	42.73
5)	t	Ethane	0.023	0.052	0.054	0.039	0.068	0.058	0.065				0.05142	30.32
6)	t	Halocarbon 134A								0.245	0.292	0.271	0.28159	6.73
7)	t	Propylene	0.255	0.255	0.290	0.304	0.332	0.333	0.338				0.30103	11.95
8)	t	Chlorodifluorometha								0.631	0.759	0.704	0.73109	7.18
9)	t	Propane	0.104	0.112	0.128	0.133	0.147	0.144	0.145				0.13040	13.08
10)	t	Dichlorodifluoromet	0.829	0.865	0.917	0.922	1.040	1.043	1.090				0.95818	10.40
11)	t	Chloromethane	0.331	0.337	0.341	0.351	0.384	0.384	0.378				0.35788	6.53
12)	t	Isobutane	0.682	0.719	0.751	0.766	0.856	0.838	0.813				0.77503	8.22
13)	t	Halocarbon 114	0.891	0.925	0.909	0.931	1.051	1.031	1.032				0.96712	6.98
14)	t	Acetaldehyde								0.109	0.119	0.132	0.13766	13.68
15)	t	Vinyl chloride	0.305	0.284	0.318	0.331	0.371	0.359	0.357				0.33227	9.61
16)	t	1-Butene/Isobutene	0.444	0.400	0.502	0.536	0.584	0.552	0.547				0.50914	12.90
17)	t	1,3-Butadiene	0.252	0.223	0.282	0.314	0.341	0.319	0.323				0.29334	14.63
18)	t	n-Butane	0.644	0.606	0.667	0.678	0.751	0.695	0.670				0.67308	6.64
19)	t	Methanol								0.116	0.120	0.074	0.07515	46.79
20)	t	trans-2-Butene	0.369	0.325	0.435	0.487	0.526	0.487	0.479				0.44401	16.32
21)	t	Neopentane								1.017	1.190	1.123	1.15313	5.99
22)	t	Dichlorofluorometha								0.402	0.482	0.589	0.60795	20.26
23)	t	Bromomethane	0.247	0.216	0.250	0.268	0.299	0.285	0.290				0.26520	11.03
24)	t	cis-2-Butene	0.379	0.335	0.435	0.484	0.530	0.483	0.471				0.44541	15.13
25)	t	Chloroethane	0.134	0.133	0.160	0.182	0.190	0.174	0.164				0.16231	13.64
26)	t	Vinyl bromide								0.125	0.149	0.193	0.20764	26.09
27)	t	3-Methyl-1-butene	0.624	0.597	0.741	0.796	0.922	0.869	0.876				0.77495	16.39
28)	t	Ethanol								0.079	0.111	0.121	0.07934	35.78
29)	t	Acetonitrile								0.138	0.179	0.227	0.23401	24.18
30)	t	Acrolein								0.044	0.051	0.070	0.08368	35.04
31)	t	Isopentane	0.410	0.383	0.439	0.459	0.532	0.503	0.500				0.46096	11.70
32)	t	Trichlorofluorometh	0.745	0.702	0.803	0.852	1.011	0.961	1.046				0.87427	15.32
33)	t	1-Pentene	0.343	0.315	0.409	0.450	0.563	0.488	0.485				0.43635	19.94
34)	t	Acetone								0.392	0.405	0.426	0.48698	17.14
35)	T	2-Propanol								0.266	0.364	0.344	0.29411	19.66
36)	t	Acrylonitrile								0.078	0.095	0.129	0.15108	34.16
37)	t	n-Pentane	0.521	0.470	0.595	0.636	0.776	0.687	0.675				0.62290	16.74
38)	T	Diethyl ether								0.053	0.068	0.081	0.09938	32.69
39)	t	Isoprene	0.201	0.191	0.257	0.283	0.365	0.319	0.327				0.27751	23.45

40)	t	trans-2-Pentene	0.363	0.353	0.475	0.521	0.680	0.584	0.621				0.51383	24.41
41)	t	1,1-Dichloroethene	0.390	0.348	0.415	0.466	0.565	0.489	0.515				0.45531	16.62
42)	t	cis-2-Pentene	0.365	0.360	0.476	0.524	0.686	0.589	0.625				0.51771	24.31
43)	t	Methylene chloride	0.337	0.317	0.355	0.397	0.481	0.410	0.426				0.38902	14.62
44)	t	2-Methyl-2-butene	0.377	0.373	0.506	0.550	0.715	0.621	0.656				0.54264	24.53
45)	t	Carbon Disulfide								0.431	0.544	0.662	0.65700	19.05
46)	t	3-Chloropropene	0.232	0.230	0.295	0.327	0.427	0.367	0.377				0.32211	23.19
47)	t	Halocarbon 113	0.385	0.352	0.386	0.435	0.502	0.499	0.556				0.44499	16.98
48)	t	Neohexane	0.542	0.512	0.576	0.634	0.706	0.684	0.663				0.61660	12.06
49)	t	Cyclopentene	0.400	0.388	0.491	0.544	0.705	0.612	0.608				0.53523	21.83
50)	t	trans-1,2-Dichloroe	0.313	0.291	0.338	0.373	0.489	0.419	0.442				0.38066	19.02
51)	t	4-Methyl-1-pentene	0.415	0.398	0.527	0.581	0.721	0.645	0.614				0.55737	21.32
52)	T	1-Propanol								0.013	0.026	0.025	0.01986	28.25
53)	t	1,1-Dichloroethane	0.374	0.352	0.415	0.438	0.600	0.512	0.532				0.46025	19.68
54)	t	Cyclopentane	0.601	0.551	0.673	0.721	0.875	0.780	0.717				0.70257	15.40
55)	t	2,3-Dimethylbutane	0.835	0.763	0.916	1.220	1.412	1.351	1.289				1.11223	23.97
56)	T	Methyl tert-butyl e	0.516	0.510	0.616	0.751	0.930	0.913	0.939				0.73916	26.14
57)	t	Isohexane	0.391	0.344	0.424	0.470	0.572	0.516	0.476				0.45602	16.90
58)	t	Vinyl acetate								0.374	0.466	0.608	0.76073	37.21
59)	t	cis-4-Methyl-2-pent								0.248	0.293	0.409	0.45332	30.72
60)	t	trans-4-Methyl-2-pe								0.301	0.337	0.464	0.51804	29.68
61)	T	Butyraldehyde								0.021	0.028	0.034	0.04102	33.95
62)	t	2-Butanone								0.383	0.480	0.530	0.61722	25.58
63)	t	Chloroprene	0.357	0.341	0.420	0.454	0.647	0.556	0.600				0.48190	24.98
64)	t	3-Methylpentane	0.524	0.477	0.588	0.656	0.793	0.723	0.698				0.63693	17.75
65)	s	Fluorobenzene	1.043	0.995	1.143	1.025	1.062	0.937	0.758	1.086	0.954	1.171	1.02910	10.86
66)	t	2-Methyl-1-pentene	0.317	0.346	0.417	0.482	0.699	0.599	0.569				0.48971	28.63
67)	t	1-Hexene	0.234	0.267	0.289	0.299	0.451	0.384	0.360				0.32636	23.14
68)	t	cis-1,2-Dichloroeth	0.302	0.280	0.309	0.334	0.458	0.390	0.407				0.35446	18.39
69)	t	Bromochloromethane	0.147	0.139	0.153	0.168	0.232	0.201	0.204				0.17769	19.58
70)	t	2-Ethyl-1-butene								0.142	0.156	0.229	0.26280	33.55
71)	t	n-Hexane	0.363	0.340	0.402	0.429	0.596	0.510	0.477				0.44546	20.04
72)	t	Chloroform	0.424	0.387	0.427	0.452	0.636	0.540	0.496				0.48032	17.72
73)	t	cis-3-Hexene								0.214	0.232	0.330	0.37648	31.75
74)	t	trans-2-Hexene	0.387	0.367	0.473	0.493	0.722	0.613	0.569				0.51772	24.41
75)	t	2-Methyl-2-pentene								0.312	0.334	0.464	0.52877	30.50
76)	t	cis-3-Methyl-2-pent								0.191	0.210	0.293	0.32650	29.74
77)	t	cis-2-Hexene	0.327	0.325	0.411	0.441	0.642	0.546	0.487				0.45429	25.35
78)	t	Methylcyclopentane	0.517	0.480	0.585	0.656	0.835	0.742	0.704				0.64565	19.63
79)	t	1,2-Dichloroethane	0.335	0.312	0.349	0.370	0.534	0.455	0.475				0.40429	20.65
80)	t	2,4-Dimethylpentane	0.682	0.630	0.776	0.907	1.088	0.977	0.934				0.85632	19.36
81)	t	1,1,1-Trichloroetha	0.446	0.404	0.501	0.584	0.740	0.668	0.659				0.57195	21.92
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene								0.377	0.447	0.558	0.68263	33.60
84)	t	Benzene	0.582	0.570	0.624	0.717	0.908	0.935	1.125				0.78017	27.26
85)	t	Carbon tetrachlorid	0.563	0.523	0.569	0.742	0.821	0.886	1.056				0.73713	26.84
86)	T	1-Butanol								0.105	0.160	0.157	0.12864	25.51
87)	t	Cyclohexane	0.580	0.533	0.576	0.736	0.755	0.828	0.962				0.70985	21.97
88)	t	Isoheptane	0.828	0.836	0.863	1.080	1.231	1.256	1.496				1.08429	23.75
89)	t	2,3-Dimethylpentane	0.676	0.626	0.687	0.888	0.930	0.995	1.183				0.85484	23.74
90)	T	Cyclohexene								0.292	0.342	0.396	0.47385	28.20
91)	t	3-Methylhexane	0.658	0.647	0.676	0.855	0.967	1.001	1.197				0.85728	24.49
92)	t	1,2-Dichloropropane	0.257	0.256	0.261	0.297	0.381	0.390	0.466				0.32942	25.18
93)	t	Bromodichloromethan	0.523	0.521	0.485	0.569	0.733	0.753	0.924				0.64403	25.24

94)	t	Trichloroethene	0.300	0.290	0.269	0.326	0.420	0.440	0.536				0.36853	26.79
95)	T	1,4-Dioxane								0.110	0.146	0.086	0.08245	41.94
96)	T	1-Heptene								0.171	0.203	0.228	0.28414	30.73
97)	t	2,2,4-Trimethylpent	1.673	1.639	1.737	2.326	2.415	2.579	3.066				2.20498	24.58
98)	t	2-Chloropentane	0.264	0.272	0.300	0.363	0.477	0.493					0.36162	28.22
99)	t	trans-3-Heptene								0.341	0.397	0.444	0.54923	29.56
100)	t	n-Heptane	0.253	0.259	0.258	0.302	0.379	0.385	0.466				0.32884	25.09
101)	T	cis-3-Heptene								0.362	0.409	0.459	0.56584	28.90
102)	T	trans-2-Heptene								0.285	0.322	0.357	0.45234	30.57
103)	T	2,4,4-Trimethyl-1-p								0.660	0.776	0.911	1.14298	32.63
104)	t	cis-1,3-Dichloropro	0.319	0.330	0.311	0.388	0.509	0.535					0.39855	25.01
105)	T	Methylisobutylketon								0.525	0.733	0.682	0.86746	28.55
106)	t	Methylcyclohexane	0.468	0.470	0.491	0.640	0.699	0.731	0.864				0.62337	24.59
107)	T	2,4,4-Trimethyl-2-p								0.441	0.528	0.598	0.78306	34.82
108)	T	2,5-Dimethylhexane								0.501	0.601	0.624	0.79206	28.74
109)	T	2,2,3-Trimethylpent								0.945	1.121	1.153	1.45079	27.02
110)	t	trans-1,3-Dichlorop	0.291	0.313	0.278	0.377	0.480	0.526					0.37755	27.58
111)	t	1,1,2-Trichloroetha	0.248	0.255	0.229	0.271	0.354	0.375	0.452				0.31206	26.58
112)	t	2,3,4-Trimethylpent	1.132	1.100	1.129	1.473	1.609	1.664	2.003				1.44423	23.71
113)	s	Toluene-d8	1.216	1.193	1.229	1.237	1.182	1.182	1.197	1.190	1.119	1.170	1.17760	3.10
114)	t	Toluene	0.692	0.702	0.684	0.806	1.059	1.105	1.340				0.91256	28.20
115)	s	1,4-Dichlorobutane	0.174	0.181	0.167	0.179	0.175	0.188	0.198	0.171	0.176	0.167	0.17476	5.31
116)	t	2-Hexanone								0.532	0.722	0.683	0.86067	28.03
117)	t	2-Methylheptane	0.728	0.780	0.760	0.908	1.142	1.168	1.430				0.98802	26.79
118)	T	1-Methylcyclohexene								0.264	0.324	0.361	0.46195	32.60
119)	t	Dibromochloromethan	0.388	0.407	0.368	0.448	0.598	0.643					0.47520	24.50
120)	t	3-Methylheptane	0.332	0.343	0.334	0.423	0.518	0.536	0.648				0.44779	27.44
121)	T	Hexanal								0.079	0.103	0.101	0.13458	33.09
122)	t	1,2-Dibromoethane	0.396	0.407	0.342	0.419	0.534	0.580	0.722				0.48581	27.38
123)	T	2,2,5-Trimethylhexa								1.043	1.278	1.299	1.66599	29.03
124)	T	1-Octene								0.218	0.278	0.287	0.37488	32.90
125)	t	n-Octane	0.706	0.808	0.763	0.925	1.184	1.218	1.502				1.01502	28.94
126)	t	Tetrachloroethene	0.252	0.252	0.228	0.273	0.369	0.388	0.478				0.32003	29.07
127)	T	cis-2-Octene								0.279	0.361	0.368	0.49930	34.55
128)	t	Chlorobenzene	0.533	0.540	0.468	0.549	0.726	0.782	0.944				0.64885	26.58
129)	t	Ethylbenzene	0.689	0.776	0.756	0.937	1.264	1.366					0.96458	29.56
130)	t	m/p-Xylene	0.606	0.688	0.656	0.814	1.089	1.184					0.83952	28.80
131)	t	Bromoform	0.215	0.235	0.206	0.265	0.350	0.397					0.27810	28.13
132)	T	Butyl acrylate								0.368	0.547	0.592	0.84717	43.26
133)	T	Heptanal								0.115	0.139	0.135	0.17986	29.98
134)	t	Styrene	0.390	0.435	0.403	0.513	0.689	0.771					0.53349	30.03
135)	t	1,1,2,2-Tetrachloro	0.485	0.558	0.486	0.580	0.706	0.792	0.955				0.65181	26.85
136)	t	o-Xylene	0.593	0.658	0.634	0.800	1.047	1.139					0.81183	28.36
137)	T	1-Nonene								0.231	0.287	0.277	0.38797	34.29
138)	t	cis-4-Nonene								0.466	0.562	0.533	0.74756	33.24
139)	t	trans-4-Nonene								0.402	0.547	0.510	0.69322	32.78
140)	t	n-Nonane	0.671	0.788	0.731	0.899	1.141	1.238					0.91134	25.28
141)	s	1,4-Bromofluorobenz	0.789	0.813	0.766	0.809	0.785	0.821	0.837	0.780	0.825	0.778	0.79717	2.60
142)	t	Isopropylbenzene	0.786	0.894	0.875	1.106	1.460						1.02412	26.43
143)	T	Benzaldehyde								0.211	0.270	0.268	0.34141	28.43
144)	t	alpha-Pinene	0.668	0.773	0.760	1.024	1.271	1.367					0.97745	29.84
145)	T	o/m-Chlorotoluene								0.495	0.613	0.532	0.75497	30.59
146)	T	p-Chlorotoluene								0.509	0.622	0.524	0.75199	30.04
147)	t	n-Propylbenzene	0.959	1.094	1.021	1.280	1.682	1.908					1.32392	29.24
148)	t	m-Ethyltoluene	0.705	0.810	0.764	0.960	1.282						0.90404	25.62

149)	t	p-Ethyltoluene	0.703	0.822	0.760	0.938	1.234	1.440						0.98300	29.75
150)	t	1,3,5-Trimethylbenz	0.582	0.706	0.675	0.833	1.078							0.77488	24.72
151)	t	o-Ethyltoluene	0.692	0.809	0.765	0.956	1.257							0.89578	24.97
152)	t	beta-Pinene	0.613	0.753	0.745	1.038	1.297	1.422	1.738					1.08653	38.26
153)	t	1,2,4-Trimethylbenz	0.600	0.707	0.669	0.806	1.075							0.77134	24.05
154)	T	tert-Butylbenzene								0.580	0.636	0.596		0.86115	33.70
155)	T	1-Decene								0.261	0.321	0.279		0.35966	25.20
156)	t	Benzyl chloride	0.352	0.399	0.354	0.476	0.755							0.46720	36.11
157)	t	m-Dichlorobenzene	0.432	0.482	0.391	0.492	0.647	0.765						0.53481	26.61
158)	t	n-Decane	0.717	0.846	0.766	0.850	1.115	1.255						0.92485	22.96
159)	t	p-Dichlorobenzene	0.449	0.498	0.395	0.491	0.637	0.770						0.53990	25.65
160)	T	Isobutylbenzene								0.830	0.879	0.789		1.05042	25.22
161)	t	1,2,3-Trimethylbenz	0.612	0.750	0.691	0.813	1.148							0.80302	25.76
162)	T	p-Isopropyltoluene								0.713	0.833	0.766		1.02200	29.70
163)	t	o-Dichlorobenzene	0.423	0.464	0.393	0.451	0.650	0.758						0.52320	27.90
164)	T	Limonene								0.295	0.329	0.294		0.39677	27.57
165)	T	Indan								0.598	0.631	0.533		0.72892	24.71
166)	T	Indene								0.486	0.544	0.473		0.64426	27.82
167)	t	m-Diethylbenzene	0.640	0.774	0.728	0.771	1.104	1.249						0.87756	27.42
168)	t	p-Diethylbenzene	0.582	0.720	0.676	0.729	1.066							0.75469	24.29
169)	T	n-Butylbenzene								0.742	0.972	0.889		1.12720	28.84
170)	T	1-Undecene								0.240	0.360	0.346		0.46534	34.82
171)	T	n-Undecane								0.568	0.796	0.738		0.95348	28.77
172)	t	1,2,4-Trichlorobenz	0.334	0.337	0.216	0.469	0.249	0.396	0.412					0.34453	26.09
173)	T	Naphthalene								0.716	0.897	0.735		1.01989	26.01
174)	t	Hexachloro-1,3-buta	0.302	0.303	0.252	0.421	0.202	0.315	0.305					0.29984	22.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

CA110501.M Mon May 02 15:08:28 2011 DAH

Calibration Table Report
Method: CA110501.M
Title:
Last Calibration: Mon May 02 15:07:57 2011

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	MC050104.	MC050105.	MC050106.	MC050107.	MC050108.	MC050109.	MC050110.	MC050113.	MC050114.	MC050115.	MC050116.	MC050117.	MC050118.	MC050119.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.446	0.432	0.449	0.435	0.424	0.403	0.362	0.452	0.422	0.448	0.437	0.441	0.436	0.385	0.42659	6.17
Ethylene	0.003	0.027	0.031	0.011	0.067	0.036	0.055								0.03300	68.36
Acetylene	0.035	0.095	0.112	0.071	0.165	0.127	0.157								0.10875	42.73
Ethane	0.023	0.052	0.054	0.039	0.068	0.058	0.065								0.05142	30.32
Halocarbon 134A								0.245	0.292	0.271	0.294	0.277	0.302	0.290	0.28159	6.73
Propylene	0.255	0.255	0.290	0.304	0.332	0.333	0.338								0.30103	11.95
Chlorodifluoromethane								0.631	0.759	0.704	0.767	0.716	0.785	0.756	0.73109	7.18
Propane	0.104	0.112	0.128	0.133	0.147	0.144	0.145								0.13040	13.08
Dichlorodifluoromethane	0.829	0.865	0.917	0.922	1.040	1.043	1.090								0.95818	10.40
Chloromethane	0.331	0.337	0.341	0.351	0.384	0.384	0.378								0.35788	6.53
Isobutane	0.682	0.719	0.751	0.766	0.856	0.838	0.813								0.77503	8.22
Halocarbon 114	0.891	0.925	0.909	0.931	1.051	1.031	1.032								0.96712	6.98
Acetaldehyde								0.109	0.119	0.132	0.145	0.144	0.160	0.155	0.13766	13.68
Vinyl chloride	0.305	0.284	0.318	0.331	0.371	0.359	0.357								0.33227	9.61
1-Butene/Isobutene	0.444	0.400	0.502	0.536	0.584	0.552	0.547								0.50914	12.90
1,3-Butadiene	0.252	0.223	0.282	0.314	0.341	0.319	0.323								0.29334	14.63
n-Butane	0.644	0.606	0.667	0.678	0.751	0.695	0.670								0.67308	6.64
Methanol					0.781			0.116	0.120	0.074	0.051	0.045	0.043		0.07515	46.79
trans-2-Butene	0.369	0.325	0.435	0.487	0.526	0.487	0.479								0.44401	16.32
Neopentane								1.017	1.190	1.123	1.206	1.137	1.214	1.185	1.15313	5.99
Dichlorofluoromethane								0.402	0.482	0.589	0.690	0.671	0.731	0.690	0.60795	20.26
Bromomethane	0.247	0.216	0.250	0.268	0.299	0.285	0.290								0.26520	11.03
cis-2-Butene	0.379	0.335	0.435	0.484	0.530	0.483	0.471								0.44541	15.13
Chloroethane	0.134	0.133	0.160	0.182	0.190	0.174	0.164								0.16231	13.64
Vinyl bromide								0.125	0.149	0.193	0.231	0.230	0.264	0.262	0.20764	26.09
3-Methyl-1-butene	0.624	0.597	0.741	0.796	0.922	0.869	0.876								0.77495	16.39
Ethanol								0.079	0.111	0.121	0.078	0.069	0.057	0.041	0.07934	35.78
Acetonitrile								0.138	0.179	0.227	0.261	0.265	0.294	0.273	0.23401	24.18
Acrolein								0.044	0.051	0.070	0.091	0.100	0.115	0.115	0.08368	35.04
Isopentane	0.410	0.383	0.439	0.459	0.532	0.503	0.500								0.46096	11.70
Trichlorofluoromethane	0.745	0.702	0.803	0.852	1.011	0.961	1.046								0.87427	15.32
1-Pentene	0.343	0.315	0.409	0.450	0.563	0.488	0.485								0.43635	19.94
Acetone								0.392	0.405	0.426	0.485	0.522	0.584	0.595	0.48698	17.14
2-Propanol								0.266	0.364	0.344	0.308	0.326	0.253	0.199	0.29411	19.66
Acrylonitrile								0.078	0.095	0.129	0.166	0.178	0.206	0.205	0.15108	34.16
n-Pentane	0.521	0.470	0.595	0.636	0.776	0.687	0.675								0.62290	16.74
Diethyl ether								0.053	0.068	0.081	0.107	0.118	0.136	0.133	0.09938	32.69
Isoprene	0.201	0.191	0.257	0.283	0.365	0.319	0.327								0.27751	23.45
trans-2-Pentene	0.363	0.353	0.475	0.521	0.680	0.584	0.621								0.51383	24.41
1,1-Dichloroethene	0.390	0.348	0.415	0.466	0.565	0.489	0.515								0.45531	16.62
cis-2-Pentene	0.365	0.360	0.476	0.524	0.686	0.589	0.625								0.51771	24.31
Methylene chloride	0.337	0.317	0.355	0.397	0.481	0.410	0.426								0.38902	14.62
2-Methyl-2-butene	0.377	0.373	0.506	0.550	0.715	0.621	0.656								0.54264	24.53
Carbon Disulfide								0.431	0.544	0.662	0.740	0.707	0.777	0.737	0.65700	19.05
3-Chloropropene	0.232	0.230	0.295	0.327	0.427	0.367	0.377								0.32211	23.19
Halocarbon 113	0.385	0.352	0.386	0.435	0.502	0.499	0.556								0.44499	16.98
Neohexane	0.542	0.512	0.576	0.634	0.706	0.684	0.663								0.61660	12.06
Cyclopentene	0.400	0.388	0.491	0.544	0.705	0.612	0.608								0.53523	21.83
trans-1,2-Dichloroethene	0.313	0.291	0.338	0.373	0.489	0.419	0.442								0.38066	19.02
4-Methyl-1-pentene	0.415	0.398	0.527	0.581	0.721	0.645	0.614								0.55737	21.32
1-Propanol								0.013	0.026	0.025	0.022	0.024	0.018	0.012	0.01986	28.25
1,1-Dichloroethane	0.374	0.352	0.415	0.438	0.600	0.512	0.532								0.46025	19.68
Cyclopentane	0.601	0.551	0.673	0.721	0.875	0.780	0.717								0.70257	15.40
2,3-Dimethylbutane	0.835	0.763	0.916	1.220	1.412	1.351	1.289								1.11223	23.97
Methyl tert-butyl ether	0.516	0.510	0.616	0.751	0.930	0.913	0.939								0.73916	26.14
Isohexane	0.391	0.344	0.424	0.470	0.572	0.516	0.476								0.45602	16.90

	Vinyl acetate								0.374	0.466	0.608	0.814	0.927	1.088	1.049	0.76073	37.21
	cis-4-Methyl-2-pentene								0.248	0.293	0.409	0.515	0.537	0.606	0.565	0.45332	30.72
	trans-4-Methyl-2-pentene								0.301	0.337	0.464	0.577	0.608	0.694	0.646	0.51804	29.68
	Butyraldehyde								0.021	0.028	0.034	0.042	0.049	0.057	0.055	0.04102	33.95
	2-Butanone								0.383	0.480	0.530	0.640	0.710	0.805	0.772	0.61722	25.58
	Chloroprene	0.357	0.341	0.420	0.454	0.647	0.556	0.600								0.48190	24.98
	3-Methylpentane	0.524	0.477	0.588	0.656	0.793	0.723	0.698								0.63693	17.75
	Fluorobenzene	1.043	0.995	1.143	1.025	1.062	0.937	0.758	1.086	0.954	1.171	1.095	1.090	1.142	0.907	1.02910	10.86
	2-Methyl-1-pentene	0.317	0.346	0.417	0.482	0.699	0.599	0.569								0.48971	28.63
	1-Hexene	0.234	0.267	0.289	0.299	0.451	0.384	0.360								0.32636	23.14
	cis-1,2-Dichloroethene	0.302	0.280	0.309	0.334	0.458	0.390	0.407								0.35446	18.39
	Bromochloromethane	0.147	0.139	0.153	0.168	0.232	0.201	0.204								0.17769	19.58
	2-Ethyl-1-butene								0.142	0.156	0.229	0.295	0.315	0.363	0.338	0.26280	33.55
	n-Hexane	0.363	0.340	0.402	0.429	0.596	0.510	0.477								0.44546	20.04
	Chloroform	0.424	0.387	0.427	0.452	0.636	0.540	0.496								0.48032	17.72
	cis-3-Hexene								0.214	0.232	0.330	0.418	0.441	0.514	0.485	0.37648	31.75
	trans-2-Hexene	0.387	0.367	0.473	0.493	0.722	0.613	0.569								0.51772	24.41
	2-Methyl-2-pentene								0.312	0.334	0.464	0.584	0.621	0.716	0.671	0.52877	30.50
	cis-3-Methyl-2-pentene								0.191	0.210	0.293	0.363	0.384	0.44	0.405	0.32650	29.74
	cis-2-Hexene	0.327	0.325	0.411	0.441	0.642	0.546	0.487								0.45429	25.35
	Methylcyclopentane	0.517	0.480	0.585	0.656	0.835	0.742	0.704								0.64565	19.63
	1,2-Dichloroethane	0.335	0.312	0.349	0.370	0.534	0.455	0.475								0.40429	20.65
	2,4-Dimethylpentane	0.682	0.630	0.776	0.907	1.088	0.977	0.934								0.85632	19.36
	1,1,1-Trichloroethane	0.446	0.404	0.501	0.584	0.740	0.668	0.659								0.57195	21.92
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene								0.377	0.447	0.558	0.725	0.798	0.882	0.993	0.68263	33.60
	Benzene	0.582	0.570	0.624	0.717	0.908	0.935	1.125								0.78017	27.26
	Carbon tetrachloride	0.563	0.523	0.569	0.742	0.821	0.886	1.056								0.73713	26.84
	1-Butanol								0.105	0.160	0.157	0.151	0.148	0.099	0.080	0.12864	25.51
	Cyclohexane	0.580	0.533	0.576	0.736	0.755	0.828	0.962								0.70985	21.97
	Isoheptane	0.828	0.836	0.863	1.080	1.231	1.256	1.496								1.08429	23.75
	2,3-Dimethylpentane	0.676	0.626	0.687	0.888	0.930	0.995	1.183								0.85484	23.74
	Cyclohexene								0.292	0.342	0.396	0.503	0.542	0.59	0.652	0.47385	28.20
	3-Methylhexane	0.658	0.647	0.676	0.855	0.967	1.001	1.197								0.85728	24.49
	1,2-Dichloropropane	0.257	0.256	0.261	0.297	0.381	0.390	0.466								0.32942	25.18
	Bromodichloromethane	0.523	0.521	0.485	0.569	0.733	0.753	0.924								0.64403	25.24
	Trichloroethene	0.300	0.290	0.269	0.326	0.420	0.440	0.536								0.36853	26.79
	1,4-Dioxane								0.110	0.146	0.086	0.058	0.066	0.06	0.052	0.08245	41.94
	1-Heptene								0.171	0.203	0.228	0.294	0.323	0.36	0.410	0.28414	30.73
	2,2,4-Trimethylpentane	1.673	1.639	1.737	2.326	2.415	2.579	3.066								2.20498	24.58
	2-Chloropentane	0.264	0.272	0.300	0.363	0.477	0.493									0.36162	28.22
	trans-3-Heptene								0.341	0.397	0.444	0.564	0.625	0.69	0.783	0.54923	29.56
	n-Heptane	0.253	0.259	0.258	0.302	0.379	0.385	0.466								0.32884	25.09
	cis-3-Heptene								0.362	0.409	0.459	0.580	0.640	0.708	0.804	0.56585	28.90
	trans-2-Heptene								0.285	0.322	0.357	0.459	0.514	0.572	0.658	0.45234	30.57
	2,4,4-Trimethyl-1-pentene								0.660	0.776	0.911	1.186	1.337	1.472	1.658	1.14298	32.63
	cis-1,3-Dichloropropene	0.319	0.33	0.311	0.388	0.509	0.535									0.39855	25.01
	Methylisobutylketone								0.525	0.733	0.682	0.822	0.998	1.082	1.232	0.86746	28.55
	Methylcyclohexane	0.468	0.47	0.491	0.64	0.699	0.731	0.864								0.62338	24.59
	2,4,4-Trimethyl-2-pentene								0.441	0.528	0.598	0.793	0.923	1.028	1.170	0.78306	34.82
	2,5-Dimethylhexane								0.501	0.601	0.624	0.802	0.901	0.991	1.124	0.79206	28.74
	2,2,3-Trimethylpentane								0.945	1.121	1.153	1.49	1.645	1.787	2.014	1.45079	27.02
	trans-1,3-Dichloropropene	0.291	0.313	0.278	0.377	0.48	0.526									0.37755	27.58
	1,1,2-Trichloroethane	0.248	0.255	0.229	0.271	0.354	0.375	0.452								0.31206	26.58
	2,3,4-Trimethylpentane	1.132	1.1	1.129	1.473	1.609	1.664	2.003								1.44423	23.71
	Toluene-d8	1.216	1.193	1.229	1.237	1.182	1.182	1.197	1.19	1.119	1.17	1.128	1.155	1.156	1.132	1.17760	3.10
	Toluene	0.692	0.702	0.684	0.806	1.059	1.105	1.34								0.91256	28.21
	1,4-Dichlorobutane	0.174	0.181	0.167	0.179	0.175	0.188	0.198	0.171	0.176	0.167	0.167	0.168	0.166	0.170	0.17476	5.31
	2-Hexanone								0.532	0.722	0.683	0.817	0.975	1.08	1.217	0.86067	28.03
	2-Methylheptane	0.728	0.78	0.76	0.908	1.142	1.168	1.43								0.98802	26.79
	1-Methylcyclohexene								0.264	0.324	0.361	0.479	0.539	0.594	0.672	0.46195	32.60
	Dibromochloromethane	0.388	0.407	0.368	0.448	0.598	0.643									0.47521	24.50
	3-Methylheptane	0.332	0.343	0.334	0.423	0.518	0.536	0.648								0.44779	27.44
	Hexanal								0.079	0.103	0.101	0.126	0.157	0.176	0.201	0.13458	33.09
	1,2-Dibromoethane	0.396	0.407	0.342	0.419	0.534	0.58	0.722								0.48581	27.38
	2,2,5-Trimethylhexane								1.043	1.278	1.299	1.678	1.91	2.088	2.367	1.66599	29.03
	1-Octene								0.218	0.278	0.287	0.366	0.431	0.483	0.561	0.37488	32.90

	n-Octane	0.706	0.808	0.763	0.925	1.184	1.218	1.502								1.01502	28.94
	Tetrachloroethene	0.252	0.252	0.228	0.273	0.369	0.388	0.478								0.32003	29.07
	cis-2-Octene								0.279	0.361	0.368	0.501	0.583	0.65	0.752	0.49930	34.55
	Chlorobenzene	0.533	0.54	0.468	0.549	0.726	0.782	0.944								0.64885	26.58
	Ethylbenzene	0.689	0.776	0.756	0.937	1.264	1.366									0.96458	29.56
	m/p-Xylene	0.606	0.688	0.656	0.814	1.089	1.184									0.83952	28.80
	Bromoform	0.215	0.235	0.206	0.265	0.35	0.397									0.27810	28.13
	Butyl acrylate								0.368	0.547	0.592	0.822	1.05	1.195	1.356	0.84717	43.26
	Heptanal								0.115	0.139	0.135	0.173	0.208	0.232	0.258	0.17986	29.98
	Styrene	0.39	0.435	0.403	0.513	0.689	0.771									0.53349	30.03
	1,1,2,2-Tetrachloroethane	0.485	0.558	0.486	0.58	0.706	0.792	0.955								0.65181	26.85
	o-Xylene	0.593	0.658	0.634	0.8	1.047	1.139									0.81183	28.36
	1-Nonene								0.231	0.287	0.277	0.374	0.449	0.507	0.591	0.38797	34.29
	cis-4-Nonene								0.466	0.562	0.533	0.711	0.857	0.97	1.133	0.74756	33.24
	trans-4-Nonene								0.402	0.547	0.51	0.669	0.789	0.897	1.038	0.69322	32.78
	n-Nonane	0.671	0.788	0.731	0.899	1.141	1.238									0.91134	25.28
	1,4-Bromofluorobenzene	0.789	0.813	0.766	0.809	0.785	0.821	0.837	0.78	0.825	0.778	0.794	0.794	0.779	0.790	0.79717	2.60
	Isopropylbenzene	0.786	0.894	0.875	1.106	1.46										1.02412	26.43
	Benzaldehyde								0.211	0.27	0.268	0.343	0.391	0.43	0.478	0.34141	28.43
	alpha-Pinene	0.668	0.773	0.76	1.024	1.271	1.367									0.97745	29.84
	o/m-Chlorotoluene								0.495	0.613	0.532	0.718	0.852	0.965	1.112	0.75497	30.59
	p-Chlorotoluene								0.509	0.622	0.524	0.709	0.833	0.958	1.109	0.75199	30.04
	n-Propylbenzene	0.959	1.094	1.021	1.28	1.682	1.908									1.32392	29.24
	m-Ethyltoluene	0.705	0.81	0.764	0.96	1.282										0.90404	25.62
	p-Ethyltoluene	0.703	0.822	0.76	0.938	1.234	1.44									0.98300	29.75
	1,3,5-Trimethylbenzene	0.582	0.706	0.675	0.833	1.078										0.77488	24.72
	o-Ethyltoluene	0.692	0.809	0.765	0.956	1.257										0.89578	24.97
	beta-Pinene	0.613	0.753	0.745	1.038	1.297	1.422	1.738								1.08653	38.26
	1,2,4-Trimethylbenzene	0.6	0.707	0.669	0.806	1.075										0.77134	24.05
	tert-Butylbenzene								0.58	0.636	0.596	0.78	0.98	1.139	1.317	0.86116	33.70
	1-Decene								0.261	0.321	0.279	0.323	0.379	0.441	0.512	0.35966	25.20
	Benzyl chloride	0.352	0.399	0.354	0.476	0.755										0.46720	36.11
	m-Dichlorobenzene	0.432	0.482	0.391	0.492	0.647	0.765									0.53481	26.61
	n-Decane	0.717	0.846	0.766	0.85	1.115	1.255									0.92485	22.96
	p-Dichlorobenzene	0.449	0.498	0.395	0.491	0.637	0.77									0.53990	25.65
	Isobutylbenzene								0.83	0.879	0.789	0.936	1.128	1.302	1.489	1.05042	25.22
	1,2,3-Trimethylbenzene	0.612	0.75	0.691	0.813	1.148										0.80302	25.76
	p-Isopropyltoluene								0.713	0.833	0.766	0.905	1.094	1.326	1.516	1.02200	29.70
	o-Dichlorobenzene	0.423	0.464	0.393	0.451	0.65	0.758									0.52320	27.90
	Limonene								0.295	0.329	0.294	0.351	0.428	0.506	0.573	0.39677	27.57
	Indan								0.598	0.631	0.533	0.644	0.762	0.907	1.028	0.72892	24.71
	Indene								0.486	0.544	0.473	0.566	0.669	0.835	0.936	0.64426	27.82
	m-Diethylbenzene	0.64	0.774	0.728	0.771	1.104	1.249									0.87756	27.42
	p-Diethylbenzene	0.582	0.72	0.676	0.729	1.066										0.75469	24.29
	n-Butylbenzene								0.742	0.972	0.889	1.014	1.167	1.438	1.669	1.12720	28.84
	1-Undecene								0.24	0.36	0.346	0.467	0.55	0.585	0.710	0.46534	34.82
	n-Undecane								0.568	0.796	0.738	0.958	1.102	1.143	1.370	0.95348	28.77
	1,2,4-Trichlorobenzene	0.334	0.337	0.216	0.469	0.249	0.396	0.412								0.34453	26.09
	Naphthalene								0.716	0.897	0.735	1.01	1.198	1.128	1.456	1.01989	26.01
	Hexachloro-1,3-butadiene	0.302	0.303	0.252	0.421	0.202	0.315	0.305					1.198 max			0.29984	22.28
						0.202 max							5-2-11				
	Mon May 02 15:12:06 2011					5-2-11											

Compound List Report VMSC

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 14:12:08 2011
Response via : Initial Calibration
Total Cpnds : 174

DMA 5-2-11

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	12.05	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	10.88	0.903	A	3	A	B
3	T	Ethylene	26	3.92	0.325	A	3	A	B
4	T	Acetylene	26	4.02	0.334	A	3	A	B
5	T	Ethane	26	4.11	0.341	A	2	A	B
6	T	Halocarbon 134A	69	4.90	0.406	A	3	A	B
7	T	Propylene	41	5.68	0.471	A	3	A	B
8	T	Chlorodifluoromethane	51	6.00	0.498	A	3	A	B
9	T	Propane	43	5.83	0.484	A	3	A	B
10	T	Dichlorodifluoromethane	85	6.31	0.524	A	3	A	B
11	T	Chloromethane	50	7.14	0.592	A	3	A	B
12	T	Isobutane	43	7.79	0.646	A	3	A	B
13	T	Halocarbon 114	85	7.98	0.662	A	3	A	B
14	T	Acetaldehyde	44	7.97	0.661	A	3	A	B
15	T	Vinyl chloride	62	8.21	0.682	A	3	A	B
16	T	1-Butene/Isobutene	41	8.65	0.717	A	3	A	B
17	T	1,3-Butadiene	39	8.75	0.726	A	3	A	B
18	T	n-Butane	43	8.91	0.739	A	3	A	B
19	T	Methanol	31	8.72	0.724	A	1	A	B
20	T	trans-2-Butene	41	9.28	0.770	A	3	A	B
21	T	Neopentane	57	9.35	0.776	A	3	A	B
22	T	Dichlorofluoromethane	67	10.57	0.877	A	3	A	B
23	T	Bromomethane	94	9.45	0.784	A	3	A	B
24	T	cis-2-Butene	41	9.75	0.809	A	3	A	B
25	T	Chloroethane	64	10.03	0.832	A	3	A	B
26	T	Vinyl bromide	106	10.83	0.899	A	3	A	B
27	T	3-Methyl-1-butene	55	10.84	0.900	A	3	A	B
28	T	Ethanol	45	10.84	0.899	A	2	A	B
29	T	Acetonitrile	41	11.02	0.914	A	3	A	B
30	T	Acrolein	56	11.26	0.934	A	3	A	B
31	T	Isopentane	41	11.47	0.952	A	3	A	B
32	T	Trichlorofluoromethane	101	11.74	0.974	A	3	A	B
33	T	1-Pentene	42	12.06	1.000	A	3	A	B
34	T	Acetone	43	11.54	0.957	A	2	A	B
35	T	2-Propanol	45	12.26	1.017	A	3	A	B
36	T	Acrylonitrile	52	12.48	1.035	A	3	A	B
37	T	n-Pentane	43	12.48	1.036	A	3	A	B
38	T	Diethyl ether	74	12.65	1.050	A	3	A	B
39	T	Isoprene	67	12.65	1.050	A	3	A	B
40	T	trans-2-Pentene	55	12.81	1.063	A	3	A	B
41	T	1,1-Dichloroethene	61	12.90	1.071	A	3	A	B
42	T	cis-2-Pentene	55	13.11	1.088	A	3	A	B
43	T	Methylene chloride	49	13.23	1.098	A	3	A	B
44	T	2-Methyl-2-butene	55	13.29	1.103	A	3	A	B
45	T	Carbon Disulfide	76	13.37	1.110	A	1	A	B
46	T	3-Chloropropene	41	13.40	1.112	A	2	A	B
47	T	Halocarbon 113	151	13.71	1.137	A	3	A	B
48	T	Neohexane	43	13.87	1.151	A	3	A	B
49	T	Cyclopentene	67	14.58	1.210	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	14.74	1.223	A	3	A	B
51	T	4-Methyl-1-pentene	43	14.78	1.227	A	3	A	B
52	T	1-Propanol	59	14.69	1.219	A	3	A	B
53	T	1,1-Dichloroethane	63	15.03	1.247	A	3	A	B
54	T	Cyclopentane	42	15.03	1.247	A	3	A	B
55	T	2,3-Dimethylbutane	43	15.14	1.256	A	3	A	B
56	T	Methyl tert-butyl ether	73	15.18	1.259	A	3	A	B
57	T	Isohexane	42	15.34	1.273	A	3	A	B
58	T	Vinyl acetate	43	15.44	1.281	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	15.29	1.269	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	15.43	1.280	A	3	A	B
61	T	Butyraldehyde	72	15.52	1.288	A	3	A	B
62	T	2-Butanone	43	15.72	1.304	A	3	A	B
63	T	Chloroprene	53	15.92	1.321	A	3	A	B
64	T	3-Methylpentane	57	15.94	1.323	A	3	A	B
65	S	Fluorobenzene	96	19.41	1.611	A	2	A	B

66	T	2-Methyl-1-pentene	56	16.17	1.342	A	3	A	B
67	T	1-Hexene	41	16.21	1.345	A	3	A	B
68	T	cis-1,2-Dichloroethene	61	16.34	1.356	A	3	A	B
69	T	Bromochloromethane	130	16.57	1.375	A	3	A	B
70	T	2-Ethyl-1-butene	69	16.68	1.384	A	3	A	B
71	T	n-Hexane	57	16.70	1.386	A	3	A	B
72	T	Chloroform	83	16.80	1.395	A	3	A	B
73	T	cis-3-Hexene	55	16.85	1.399	A	3	A	B
74	T	trans-2-Hexene	55	16.92	1.404	A	3	A	B
75	T	2-Methyl-2-pentene	41	17.03	1.413	A	3	A	B
76	T	cis-3-Methyl-2-pentene	69	17.16	1.424	A	3	A	B
77	T	cis-2-Hexene	55	17.31	1.437	A	3	A	B
78	T	Methylcyclopentane	56	17.84	1.480	A	3	A	B
79	T	1,2-Dichloroethane	62	17.86	1.482	A	3	A	B
80	T	2,4-Dimethylpentane	43	18.02	1.495	A	3	A	B
81	T	1,1,1-Trichloroethane	97	18.21	1.511	A	3	A	B
82	I	Chlorobenzene-d5	117	26.54	1.000	A	3	A	B
83	T	Methylcyclopentene	67	18.85	0.710	A	3	A	B
84	T	Benzene	78	18.89	0.712	A	3	A	B
85	T	Carbon tetrachloride	117	19.11	0.720	A	3	A	B
86	T	1-Butanol	56	19.03	0.717	A	3	A	B
87	T	Cyclohexane	56	19.29	0.727	A	3	A	B
88	T	Isoheptane	43	19.66	0.741	A	3	A	B
89	T	2,3-Dimethylpentane	56	19.75	0.744	A	3	A	B
90	T	Cyclohexene	67	20.00	0.754	A	3	A	B
91	T	3-Methylhexane	43	20.04	0.755	A	3	A	B
92	T	1,2-Dichloropropane	63	20.15	0.759	A	3	A	B
93	T	Bromodichloromethane	83	20.47	0.772	A	3	A	B
94	T	Trichloroethene	130	20.54	0.774	A	3	A	B
95	T	1,4-Dioxane	88	20.56	0.775	A	3	A	B
96	T	1-Heptene	55	20.60	0.776	A	3	A	B
97	T	2,2,4-Trimethylpentane	57	20.62	0.777	A	3	A	B
98	T	2-Chloropentane	70	20.85	0.786	A	3	A	B
99	T	trans-3-Heptene	41	21.00	0.792	A	3	A	B
100	T	n-Heptane	71	21.09	0.795	A	3	A	B
101	T	cis-3-Heptene	41	21.15	0.797	A	3	A	B
102	T	trans-2-Heptene	55	21.30	0.803	A	3	A	B
103	T	2,4,4-Trimethyl-1-pentene	57	21.55	0.812	A	3	A	B
104	T	cis-1,3-Dichloropropene	75	21.92	0.826	A	3	A	B
105	T	Methylisobutylketone	43	22.01	0.829	A	3	A	B
106	T	Methylcyclohexane	83	22.01	0.830	A	3	A	B
107	T	2,4,4-Trimethyl-2-pentene	55	22.28	0.840	A	3	A	B
108	T	2,5-Dimethylhexane	57	22.47	0.847	A	3	A	B
109	T	2,2,3-Trimethylpentane	57	22.57	0.851	A	3	A	B
110	T	trans-1,3-Dichloropropene	75	22.79	0.859	A	3	A	B
111	T	1,1,2-Trichloroethane	97	23.03	0.868	A	3	A	B
112	T	2,3,4-Trimethylpentane	43	23.26	0.877	A	3	A	B
113	S	Toluene-d8	98	23.31	0.879	A	2	A	B
114	T	Toluene	91	23.47	0.885	A	3	A	B
115	S	1,4-Dichlorobutane	90	28.41	1.071	A	3	A	B
116	T	2-Hexanone	43	23.99	0.904	A	3	A	B
117	T	2-Methylheptane	43	23.90	0.901	A	3	A	B
118	T	1-Methylcyclohexene	81	23.92	0.902	A	3	A	B
119	T	Dibromochloromethane	129	24.16	0.910	A	3	A	B
120	T	3-Methylheptane	85	24.22	0.913	A	3	A	B
121	T	Hexanal	44	24.38	0.919	A	3	A	B
122	T	1,2-Dibromoethane	107	24.56	0.925	A	3	A	B
123	T	2,2,5-Trimethylhexane	57	24.67	0.930	A	3	A	B
124	T	1-Octene	55	24.82	0.935	A	3	A	B
125	T	n-Octane	43	25.28	0.953	A	3	A	B
126	T	Tetrachloroethene	164	25.40	0.957	A	3	A	B
127	T	cis-2-Octene	55	25.77	0.971	A	3	A	B
128	T	Chlorobenzene	112	26.61	1.003	A	3	A	B
129	T	Ethylbenzene	91	27.35	1.031	A	3	A	B
130	T	m/p-Xylene	91	27.72	1.044	A	3	A	B
131	T	Bromoform	173	27.75	1.046	A	3	A	B
132	T	Butyl acrylate	55	28.29	1.066	A	3	A	B
133	T	Heptanal	70	28.44	1.072	A	3	A	B
134	T	Styrene	104	28.39	1.070	A	3	A	B
135	T	1,1,2,2-Tetrachloroethane	83	28.58	1.077	A	3	A	B
136	T	o-Xylene	91	28.58	1.077	A	3	A	B
137	T	1-Nonene	56	28.76	1.084	A	3	A	B
138	T	cis-4-Nonene	55	28.94	1.090	A	3	A	B
139	T	trans-4-Nonene	55	29.03	1.094	A	3	A	B

140	T	n-Nonane	43	29.19	1.100	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	29.49	1.111	A	3	A	B
142	T	Isopropylbenzene	105	29.81	1.123	A	3	A	B
143	T	Benzaldehyde	77	30.52	1.150	A	3	A	B
144	T	alpha-Pinene	93	30.60	1.153	A	3	A	B
145	T	o/m-Chlorotoluene	91	30.78	1.160	A	3	A	B
146	T	p-Chlorotoluene	91	30.93	1.166	A	3	A	B
147	T	n-Propylbenzene	91	30.90	1.165	A	3	A	B
148	T	m-Ethyltoluene	105	31.16	1.174	A	3	A	B
149	T	p-Ethyltoluene	105	31.25	1.177	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	31.44	1.185	A	3	A	B
151	T	o-Ethyltoluene	105	31.83	1.200	A	3	A	B
152	T	beta-Pinene	93	32.12	1.210	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	32.36	1.220	A	3	A	B
154	T	tert-Butylbenzene	119	32.34	1.219	A	3	A	B
155	T	1-Decene	56	32.40	1.221	A	3	A	B
156	T	Benzyl chloride	91	32.64	1.230	A	3	A	B
157	T	m-Dichlorobenzene	146	32.64	1.230	A	3	A	B
158	T	n-Decane	57	32.80	1.236	A	3	A	B
159	T	p-Dichlorobenzene	146	32.82	1.237	A	3	A	B
160	T	Isobutylbenzene	91	32.91	1.240	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	33.38	1.258	A	3	A	B
162	T	p-Isopropyltoluene	119	33.44	1.260	A	3	A	B
163	T	o-Dichlorobenzene	146	33.64	1.268	A	3	A	B
164	T	Limonene	68	33.80	1.274	A	3	A	B
165	T	Indan	117	33.83	1.275	A	3	A	B
166	T	Indene	115	34.05	1.283	A	3	A	B
167	T	m-Diethylbenzene	105	34.24	1.290	A	3	A	B
168	T	p-Diethylbenzene	119	34.48	1.299	A	3	A	B
169	T	n-Butylbenzene	91	34.52	1.301	A	3	A	B
170	T	1-Undecene	55	35.79	1.349	A	3	A	B
171	T	n-Undecane	57	36.15	1.362	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	38.09	1.435	A	3	A	B
173	T	Naphthalene	128	38.27	1.442	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	39.02	1.470	A	3	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

CA110501.M Mon May 02 14:19:51 2011 DAH

7									
	Purity (102	0.01049		Purity (ext)	0.0104				
Compound	CAS Number	Dilution Factor	0.02	0.05	0.1	0.25	0.5	0.75	1
1,1-Dichlor	1717-00-6	0.2	10	10	10	10	10	10	10
2-Bromo-1	421-06-7	0.2	10	10	10	10	10	10	10
Ethylene	74-85-1	0.01049	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01049	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01049	20.2	50.5	101	252.5	505	757.5	1010
Halocarbor	811-97-2	0.0104	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01049	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.0104	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01049	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01049	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01049	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01049	19.6	49	98	245	490	735	980
Halocarbor	76-14-2	0.01049	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.0104	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01049	19.8	49.5	99	247.5	495	742.5	990
1-Butene/I	106-98-9	0.01049	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadie	106-99-0	0.01049	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01049	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.0104	20.8	52	104	260	520	780	1040
trans-2-Bul	624-64-6	0.01049	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.0104	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.0104	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01049	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01049	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01049	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.0104	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01049	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.0104	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.0104	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.0104	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01049	19.8	49.5	99	247.5	495	742.5	990
Trichloroflu	75-69-4	0.01049	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01049	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.0104	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.0104	24	60	120	300	600	900	1200
Acrylonitrile	107-13-1	0.0104	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01049	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.0104	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01049	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01049	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01049	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01049	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01049	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01049	21.4	53.5	107	267.5	535	802.5	1070
Carbon Dis	75-15-0	0.0104	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01049	21.2	53	106	265	530	795	1060
Halocarbor	76-13-1	0.01049	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01049	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01049	19.8	49.5	99	247.5	495	742.5	990
trans-1,2-D	156-60-5	0.01049	20.8	52	104	260	520	780	1040
4-Methyl-1·	691-37-2	0.01049	20.4	51	102	255	510	765	1020
1-Propanol	71-23-8	0.0104	24	60	120	300	600	900	1200
1,1-Dichlor	75-34-3	0.01049	21.2	53	106	265	530	795	1060
Cyclopente	287-92-3	0.01049	20.4	51	102	255	510	765	1020
2,3-Dimeth	79-29-8	0.01049	20.2	50.5	101	252.5	505	757.5	1010
Methyl tert·	1634-04-4	0.01049	20.4	51	102	255	510	765	1020
Isohexane	107-83-5	0.01049	20.8	52	104	260	520	780	1040
Vinyl Aceta	108-05-4	0.0104	22	55	110	275	550	825	1100
cis-4-Meth	691-38-3	0.0104	20.8	52	104	260	520	780	1040
trans-4-Me	674-76-0	0.0104	20.6	51.5	103	257.5	515	772.5	1030
Butyraldeh	123-72-8	0.0104	20.6	51.5	103	257.5	515	772.5	1030
2-Butanon	78-93-3	0.0104	21.8	54.5	109	272.5	545	817.5	1090
Chloroprer	126-99-8	0.01049	20.2	50.5	101	252.5	505	757.5	1010
3-Methylpe	96-14-0	0.01049	20.6	51.5	103	257.5	515	772.5	1030
Fluorobenz	462-06-6	0.2	10	10	10	10	10	10	10
2-Methyl-1·	763-29-1	0.01049	20.4	51	102	255	510	765	1020
1-Hexene	592-41-6	0.01049	20.2	50.5	101	252.5	505	757.5	1010
cis-1,2-Dic	156-59-2	0.01049	21	52.5	105	262.5	525	787.5	1050
Bromochlo	74-97-5	0.01049	20.4	51	102	255	510	765	1020
2-Ethyl-1-b	760-21-4	0.0104	20	50	100	250	500	750	1000
n-Hexane	110-54-3	0.01049	21.2	53	106	265	530	795	1060
Chloroform	67-66-3	0.01049	20.8	52	104	260	520	780	1040
cis-3-Hexe	9/3/7642	0.0104	20.6	51.5	103	257.5	515	772.5	1030
trans-2-He	4050-45-7	0.01049	21	52.5	105	262.5	525	787.5	1050
2-Methyl-2·	625-27-4	0.0104	20.2	50.5	101	252.5	505	757.5	1010
cis-3-Meth	922-62-3	0.0104	21	52.5	105	262.5	525	787.5	1050
cis-2-Hexe	7688-21-3	0.01049	19.4	48.5	97	242.5	485	727.5	970
1,2-Dichlor	107-06-2	0.01049	21.2	53	106	265	530	795	1060
Methylcycl	96-37-7	0.01049	20.2	50.5	101	252.5	505	757.5	1010
2,4-Dimeth	108-08-7	0.01049	20.6	51.5	103	257.5	515	772.5	1030
1,1,1-Trich	71-55-6	0.01049	21.2	53	106	265	530	795	1060
Chloroben	3114-55-4	0.2	10	10	10	10	10	10	10
Methylcycl	693-89-0	0.0104	22	55	110	275	550	825	1100
Benzene	71-43-2	0.01049	21.4	53.5	107	267.5	535	802.5	1070
1-Butanol	71-36-3	0.0104	19.4	48.5	97	242.5	485	727.5	970
Carbon tet	56-23-5	0.01049	21	52.5	105	262.5	525	787.5	1050
Cyclohexa	110-82-7	0.01049	21.2	53	106	265	530	795	1060
Isoheptane	31394-54-	0.01049	20.6	51.5	103	257.5	515	772.5	1030
2,3-Dimeth	565-59-3	0.01049	20.4	51	102	255	510	765	1020
Cyclohexe	110-83-8	0.0104	20.2	50.5	101	252.5	505	757.5	1010
3-Methylhe	589-34-4	0.01049	20.4	51	102	255	510	765	1020
1,2-Dichlor	78-87-5	0.01049	21.2	53	106	265	530	795	1060
Bromodich	75-27-4	0.01049	20.2	50.5	101	252.5	505	757.5	1010
Trichloroet	79-01-6	0.01049	20.2	50.5	101	252.5	505	757.5	1010
1,4-Dioxan	123-91-1	0.0104	20.8	52	104	260	520	780	1040
1-Heptene	592-76-7	0.0104	20	50	100	250	500	750	1000
2,2,4-Trim	540-84-1	0.01049	20.4	51	102	255	510	765	1020
2-Chlorope	625-29-6	0.01049	20.4	51	102	255	510	765	1020
trans-3-He	14686-14-	0.0104	21.4	53.5	107	267.5	535	802.5	1070
n-Heptane	142-82-5	0.01049	20.6	51.5	103	257.5	515	772.5	1030

cis-3-Hept	10/6/7642	0.0104	21.4	53.5	107	267.5	535	802.5	1070
trans-2-He	14686-13-(	0.0104	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trim	107-39-1	0.0104	20.4	51	102	255	510	765	1020
cis-1,3-Dic	10061-01-(	0.01049	20.8	52	104	260	520	780	1040
Methylisob	108-10-1	0.0104	21.8	54.5	109	272.5	545	817.5	1090
Methylcycl	108-87-2	0.01049	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trim	107-40-4	0.0104	20.2	50.5	101	252.5	505	757.5	1010
2,5-Dimeth	592-13-2	0.0104	20.8	52	104	260	520	780	1040
2,2,3-Trim	564-02-3	0.0104	20.6	51.5	103	257.5	515	772.5	1030
trans-1,3-D	10061-02-(	0.01049	22	55	110	275	550	825	1100
1,1,2-Trich	79-00-5	0.01049	21.4	53.5	107	267.5	535	802.5	1070
2,3,4-Trim	565-75-3	0.01049	20.6	51.5	103	257.5	515	772.5	1030
Toluene-d	2037-26-5	0.2	10	10	10	10	10	10	10
Toluene	108-88-3	0.01049	21.8	54.5	109	272.5	545	817.5	1090
1,4-Dichlor	110-56-5	0.2	10	10	10	10	10	10	10
2-Hexanon	591-78-6	0.0104	21.4	53.5	107	257.5	535	802.5	1070
2-Methylhe	592-27-8	0.01049	20.6	51.5	103	267.5	515	772.5	1030
1-Methylcy	591-49-1	0.0104	21.4	53.5	107	267.5	535	802.5	1070
Dibromoch	124-48-1	0.01049	20.8	52	104	260	520	780	1040
3-Methylhe	589-81-1	0.01049	20.4	51	102	255	510	765	1020
Hexanal	66-25-1	0.0104	20.6	51.5	103	257.5	515	772.5	1030
1,2-Dibrom	106-93-4	0.01049	21.6	54	108	270	540	810	1080
2,2,5-Trim	3522-94-9	0.0104	21.8	54.5	109	272.5	545	817.5	1090
1-Octene	111-66-0	0.0104	20	50	100	250	500	750	1000
n-Octane	111-65-9	0.01049	20.6	51.5	103	257.5	515	772.5	1030
Tetrachlor	127-18-4	0.01049	21.2	53	106	265	530	795	1060
cis-2-Octe	4/8/7642	0.0104	21	52.5	105	262.5	525	787.5	1050
Chloroben	108-90-7	0.01049	21.6	54	108	270	540	810	1080
Ethylbenze	100-41-4	0.01049	21.6	54	108	270	540	810	1080
m/p-Xylene	106-42-3	0.01049	42.4	106	212	530	1060	1590	2120
Bromoform	75-25-2	0.01049	21.2	53	106	265	530	795	1060
Butyl Acryl	141-32-2	0.0104	22.8	57	114	285	570	855	1140
Styrene	100-42-5	0.01049	21.8	54.5	109	272.5	545	817.5	1090
Heptanal	111-71-7	0.0104	20.6	51.5	103	257.5	515	772.5	1030
1,1,2,2-Tet	79-34-5	0.01049	21.4	53.5	107	267.5	535	802.5	1070
o-Xylene	95-47-6	0.01049	21.4	53.5	107	267.5	535	802.5	1070
1-Nonene	124-11-8	0.0104	19.4	48.5	97	242.5	485	727.5	970
cis-4-None	10405-84-2	0.0104	22.8	57	114	285	570	855	1140
trans-4-No	10405-85-3	0.0104	19.2	48	96	240	480	720	960
n-Nonane	111-84-2	0.01049	20.4	51	102	255	510	765	1020
1,4-Bromo	460-00-4	0.2	10	10	10	10	10	10	10
Isopropylb	98-82-8	0.01049	19.8	49.5	99	247.5	495	742.5	990
Benzaldeh	100-52-7	0.0104	20.8	52	104	260	520	780	1040
alpha-Pine	80-56-8	0.01049	21.4	53.5	107	267.5	535	802.5	1070
o/m-Chlorc	2/3-CT	0.0104	42.8	107	214	535	1070	1605	2140
p-Chlorotol	106-43-4	0.0104	21.6	54	108	270	540	810	1080
n-Propylbe	103-65-1	0.01049	20	50	100	250	500	750	1000
m-Ethyltolu	620-14-4	0.01049	20	50	100	250	500	750	1000
p-Ethyltolu	622-96-8	0.01049	20.2	50.5	101	252.5	505	757.5	1010
1,3,5-Trim	108-67-8	0.01049	21.8	54.5	109	272.5	545	817.5	1090
o-Ethyltolu	611-14-3	0.01049	19.8	49.5	99	247.5	495	742.5	990
beta-Pinen	127-91-3	0.01049	15	37.5	75	187.5	375	562.5	750

1,2,4-Trim	95-63-6	0.01049	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylbe	98-06-6	0.0104	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.0104	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chl	100-44-7	0.01049	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01049	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01049	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorol	106-46-7	0.01049	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.0104	22	55	110	275	550	825	1100
1,2,3-Trim	526-73-8	0.01049	19.6	49	98	245	490	735	980
p-Isopropyl	99-87-6	0.0104	22	55	110	275	550	825	1100
o-Dichlorol	95-50-1	0.01049	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.0104	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.0104	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.0104	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01049	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01049	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.0104	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.0104	20.8	52	104	260	520	780	1040
n-Undecan	1120-21-4	0.0104	20.4	51	102	255	510	765	1020

INSTRUMENT VMSC ANALYST / DATE: 5/1/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID:

DAILY CHECK ✓	INSERT: CHANGED (Y/N)	SEPTA: CHANGED (Y/N)	COLUMN: CHANGED (Y/N)	AUTOSAMPLER MAINT. —
M. PUMP OIL ✓	TURBO OIL ✓	FILAMENT CHANGE NU	OTHER —	
NO MAINTENANCE REQUIRED: —			RETURNED TO SERVICE: —	

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, condition of septa, etc. Glass insert, septa, column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:
Tune File: C100904.U Elect Mult. 1412 volts Sampling Rate 1 6 Scan Range 1 23.0-27.0
Sampling Rate 2 4 Scan Range 2 29.0-175 Sampling Rate 3 3 Scan Range 3 33-275
Tuning Performance (circle one): BFB Autotune Other Interface (circle one): Direct Jet Separator Other

GC PROGRAM:
GC Meth. CA110501.M Initial Temp. -50 °C Final Hold 0.0 min Inj. Temp. 100 °C Init.Hold 3.0 min
Carrier Gas: Helium Ramp 1 15.0 °C/min to 0°C Flow/Pressure 1.6 mL/min Final Temp. 240 °C Ramp 2 5°C to 150°C
Ramp 3 35°C to 240°C
Other Program or Special Conditions:

GC COLUMN:
Column ID#: MSVOCID014 (Circle one) Packed Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: CC-328925

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1578	0.52	1	~~MC050101~~ MC050101	0.01049	VOC-VSP-32-68
2	Warmup	↓	↓	1	02	↓	↓
3	Preflush	↓	0.12	1	03	↓	↓
4	102 STD 20	↓	0.02	1	04	0.01049	VOC-VSP-32-68
5	50	↓	0.05	1	05	↓	↓
6	100	RA1578	0.10	1	06	↓	↓
7	250	↓	0.25	1	07	↓	↓
8	500	↓	0.50	1	08	↓	↓
9	750	↓	0.75	1	09	↓	↓
10	102 STD 1000	RA1578	1.0	1	10	0.01049	VOC-VSP-32-68

TestAmerica Austin
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
11	MB		0.5L	9	MC050114	1.0	
12	Prep-48 h	RA1776	0.1L	5	12	0.01040	VOC-VSP-32-74
13	EXT STD 20		0.02	5	13		
14	50		0.05	5	14		
15	100		0.10	5	15		
16	250		0.25	5	16		
17	500		0.50	5	17		
18	750		0.75	5	18		
19	EXT STD 1000	RA1776	1.0	5	19	0.01040	VOC-VSP-32-74
20	MB		0.50	9	20	1.0	
21	102 ICV	RA1857		3	21	0.01059	VOC-VSP-32-68
22	GMT ICV	2A1894		7	22	0.01045	VOC-VSP-32-72
23	LCS ICV	RA1843	0.50	11	23	~~0.01058~~ 0.01062	VOC-VSP-32-62
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

5-19-21

Sequence Name: C:\HPCHEM\1\SEQUENCE\CL110501.S
Comment:
Operator: DAH
Data Path: C:\MSVOC3\HPCHEM\3\DATA\C110501\
Pre-Seq Cmd:
Post-Seq Cmd:

DAH
5-2-11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	MC050101	CA110302	WARMUP,,,,0.01049;CCAL
2	Sample	2	MC050102	CA110302	WARMUP,,,,0.01049;CCAL
3	Sample	3	MC050103	CA110302	PREFLUSH,,,,0.01049;102
4	Sample	4	MC050104	CA110302	102 STD 20,,,,0.01049;102
5	Sample	5	MC050105	CA110302	102 STD 50,,,,0.01049;102
6	Sample	6	MC050106	CA110302	102 STD 100,,,,0.01049;102
7	Sample	7	MC050107	CA110302	102 STD 250,,,,0.01049;102
8	Sample	8	MC050108	CA110302	102 STD 500,,,,0.01049;102
9	Sample	9	MC050109	CA110302	102 STD 750,,,,0.01049;102
10	Sample	10	MC050110	CA110302	102 STD 1000,,,,0.01049;102
11	Sample	11	MC050111	CA110302	MB
12	Sample	12	MC050112	CA110302	PREFLUSH EXT,,,,0.01040;EXT
13	Sample	13	MC050113	CA110302	EXT STD 20,,,,0.01040;EXT
14	Sample	14	MC050114	CA110302	EXT STD 50,,,,0.01040;EXT
15	Sample	15	MC050115	CA110302	EXT STD 100,,,,0.01040;EXT
16	Sample	16	MC050116	CA110302	EXT STD 250,,,,0.01040;EXT
17	Sample	17	MC050117	CA110302	EXT STD 500,,,,0.01040;EXT
18	Sample	18	MC050118	CA110302	EXT STD 750,,,,0.01040;EXT
19	Sample	19	MC050119	CA110302	EXT STD 1000,,,,0.01040;EXT
20	Sample	20	MC050120	CA110302	MB
21	Sample	21	MC050121	CA110302	102 ICV,,,,0.01059;102
22	Sample	22	MC050122	CA110302	EXT ICV,,,,0.01045;EXT
23	Sample	23	MC050123	CA110302	LCS ICV,,,,0.01058;LCS

----------SEQUENCE TABLE ----------

Sequence Name: C:\Smart\C110501.SEQ
Date: 05-02-2011
Time: 11:41:55
Int. Std Volume: 200 cc

5-2-11

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Vol.	Std Vol.	Method	Time
WARMUP	1	1	500		0	C:\Smart\C030211.MPT	12:00
WARMUP	1	1	500		0	C:\Smart\C030211.MPT	12:00
PREFLUSH 102	1	1	100		0	C:\Smart\C030211.MPT	12:00
102 STD 20	1	1	20		0	C:\Smart\C030211.MPT	12:00
102 STD 50	1	1	50		0	C:\Smart\C030211.MPT	12:00
102 STD 100	1	1	100		0	C:\Smart\C030211.MPT	12:00
102 STD 250	1	1	250		0	C:\Smart\C030211.MPT	12:00
102 STD 500	1	1	500		0	C:\Smart\C030211.MPT	12:00
102 STD 750	1	1	750		0	C:\Smart\C030211.MPT	12:00
102 STD 1000	1	1	1000		0	C:\Smart\C030211.MPT	12:00
MB	1	9	500		0	C:\Smart\C030211.MPT	12:00
PREFLUSH EXT	1	5	100		0	C:\Smart\C030211.MPT	12:00
EXT STD 20	1	5	20		0	C:\Smart\C030211.MPT	12:00
EXT STD 50	1	5	50		0	C:\Smart\C030211.MPT	12:00
EXT STD 100	1	5	100		0	C:\Smart\C030211.MPT	12:00
EXT STD 250	1	5	250		0	C:\Smart\C030211.MPT	12:00
EXT STD 500	1	5	500		0	C:\Smart\C030211.MPT	12:00
EXT STD 750	1	5	750		0	C:\Smart\C030211.MPT	12:00
EXT STD 1000	1	5	1000		0	C:\Smart\C030211.MPT	12:00
MB	1	9	500		0	C:\Smart\C030211.MPT	12:00
102 ICV	1	3	500		0	C:\Smart\C030211.MPT	12:00
EXT ICV	1	7	500		0	C:\Smart\C030211.MPT	12:00
LCS ICV	1	11	500		0	C:\Smart\C030211.MPT	12:00

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050104.D Vial: 4
Acq On : 1 May 2011 2:50 pm Operator: DAH
Sample : 102 STD 20,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :

DAH 5-2-11

Spectrum Information: Average of 29.461 to 29.506 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	30.4	17490	PASS
75	95	30	66	59.0	33956	PASS
95	95	100	100	100.0	57563	PASS
96	95	5	9	6.8	3900	PASS
173	174	0.00	2	0.1	21	PASS
174	95	50	120	63.2	36388	PASS
175	174	4	9	7.7	2787	PASS
176	174	93	101	95.5	34759	PASS
177	176	5	9	6.6	2292	PASS

MC050104.D CA110302.M Mon May 02 15:21:02 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050104.D Vial: 4
Acq On : 1 May 2011 2:50 pm Operator: DAH
Sample : 102 STD 20,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:29 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

DAH 5-2-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.03	81	324537	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	259908	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.87	83	144819	1.8075 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 90.50%	
65) Fluorobenzene	19.40	96	338386	1.5644 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 78.00%	
113) Toluene-d8	23.30	98	315988	2.1625 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 108.00%	
115) 1,4-Dichlorobutane	28.40	90	45220	2.1138 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.48	95	205068	2.1319 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds					Qvalue
3) Ethylene	3.91	26	116	0.0206 ppbV # S	33
4) Acetylene	4.02	26	1191	0.0373 ppbV S	85
5) Ethane	4.11	26	802	0.0928 ppbV # S	75
7) Propylene	5.69	41	8589	0.1512 ppbV S	96
9) Propane	5.83	43	3455	0.1420 ppbV S	92
10) Dichlorodifluoromethane	6.33	85	27950	0.1818 ppbV S	95
11) Chloromethane	7.15	50	11257	0.1694 ppbV S	97
12) Isobutane	7.80	43	22748	0.1610 ppbV S	92
13) Halocarbon 114	8.00	85	29725	0.1756 ppbV S	93
15) Vinyl chloride	8.23	62	10276	0.1509 ppbV S	97
16) 1-Butene/Isobutene	8.66	41	14650	0.1500 ppbV S	95
17) 1,3-Butadiene	8.77	39	9003	0.1626 ppbV S	97
18) n-Butane	8.92	43	21263	0.1704 ppbV S	96
20) trans-2-Butene	9.29	41	12194	0.1426 ppbV S	92
23) Bromomethane	9.46	94	8331	0.1546 ppbV S	93
24) cis-2-Butene	9.77	41	13430	0.1614 ppbV S	94
25) Chloroethane	10.04	64	4512	0.1446 ppbV S	86
27) 3-Methyl-1-butene	10.85	55	22296	0.1619 ppbV S	95
31) Isopentane	11.49	41	13825	0.1779 ppbV # S	34
32) Trichlorofluoromethane	11.75	101	26122	0.1880 ppbV S	98
33) 1-Pentene	12.06	42	12028	0.1406 ppbV # S	72
37) n-Pentane	12.49	43	18257	0.1490 ppbV S	95
39) Isoprene	12.67	67	6993	0.1154 ppbV S	82
40) trans-2-Pentene	12.82	55	12981	0.1278 ppbV S	88
41) 1,1-Dichloroethene	12.91	61	13797	0.1630 ppbV S	85
42) cis-2-Pentene	13.11	55	12788	0.1253 ppbV S	89
43) Methylene chloride	13.24	49	11701	0.1688 ppbV S	82
44) 2-Methyl-2-butene	13.30	55	13732	0.1305 ppbV S	86
46) 3-Chloropropene	13.41	41	8360	0.1189 ppbV S	87
47) Halocarbon 113	13.72	151	13503	0.1576 ppbV # S	67
48) Neohexane	13.88	43	18825	0.1713 ppbV # S	77
49) Cyclopentene	14.59	67	13468	0.1149 ppbV S	88
50) trans-1,2-Dichloroethene	14.75	61	11071	0.1512 ppbV S	83
51) 4-Methyl-1-pentene	14.78	43	14415	0.1389 ppbV S	89
53) 1,1-Dichloroethane	15.04	63	13482	0.1586 ppbV # S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050104.D Vial: 4
Acq On : 1 May 2011 2:50 pm Operator: DAH
Sample : 102 STD 20,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:29 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.03	42	20870	0.1565	ppbV		S	95
55)	2,3-Dimethylbutane	15.14	43	28714	0.1500	ppbV		S	86
56)	Methyl tert-butyl ether	15.24	73	17920m	0.1224	ppbV		S	
57)	Isohexane	15.34	42	13829	0.1675	ppbV	#	S	62
63)	Chloroprene	15.92	53	12259	0.1528	ppbV	#	S	93
64)	3-Methylpentane	15.95	57	18371	0.1505	ppbV	#	S	1
66)	2-Methyl-1-pentene	16.18	56	10993m	0.1144	ppbV		S	
67)	1-Hexene	16.21	41	8041	0.1492	ppbV		S	95
68)	cis-1,2-Dichloroethene	16.33	61	10795	0.1656	ppbV		S	85
69)	Bromochloromethane	16.57	130	5114	0.1357	ppbV	#	S	76
71)	n-Hexane	16.70	57	13111	0.1462	ppbV		S	84
72)	Chloroform	16.81	83	15029	0.1747	ppbV		S	92
74)	trans-2-Hexene	16.92	55	13830	0.1397	ppbV		S	87
77)	cis-2-Hexene	17.31	55	10803	0.1219	ppbV		S	89
78)	Methylcyclopentane	17.84	56	17779	0.1390	ppbV		S	79
79)	1,2-Dichloroethane	17.86	62	12072	0.1961	ppbV		S	96
80)	2,4-Dimethylpentane	18.02	43	23914	0.1562	ppbV		S	85
81)	1,1,1-Trichloroethane	18.21	97	16099	0.1628	ppbV		S	94
84)	Benzene	18.89	78	16967	0.1782	ppbV		S	91
85)	Carbon tetrachloride	19.11	117	16126	0.2133	ppbV		S	95
87)	Cyclohexane	19.29	56	16766	0.2103	ppbV		S	87
88)	Isoheptane	19.66	43	23253	0.2014	ppbV		S	86
89)	2,3-Dimethylpentane	19.75	56	18793	0.2041	ppbV		S	87
91)	3-Methylhexane	20.04	43	18303	0.1965	ppbV		S	82
92)	1,2-Dichloropropane	20.16	63	7422	0.1975	ppbV	#	S	73
93)	Bromodichloromethane	20.47	83	14410	0.2225	ppbV		S	92
94)	Trichloroethene	20.54	130	8252	0.1825	ppbV		S	91
97)	2,2,4-Trimethylpentane	20.62	57	46526	0.1895	ppbV	#	S	42
98)	2-Chloropentane	20.85	70	7348	0.1492	ppbV		S	85
100)	n-Heptane	21.09	71	7103	0.1785	ppbV	#	S	43
104)	cis-1,3-Dichloropropene	21.92	75	9027	0.1714	ppbV		S	79
106)	Methylcyclohexane	22.01	83	13148	0.1762	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.78	75	8736	0.1749	ppbV		S	84
111)	1,1,2-Trichloroethane	23.03	97	7243	0.1991	ppbV		S	89
112)	2,3,4-Trimethylpentane	23.25	43	31789	0.2080	ppbV		S	86
114)	Toluene	23.47	91	20560	0.1945	ppbV		S	91
117)	2-Methylheptane	23.90	43	20449	0.1991	ppbV		S	88
119)	Dibromochloromethane	24.16	129	10990	0.1865	ppbV		S	97
120)	3-Methylheptane	24.22	85	9237	0.1709	ppbV	#	S	78
122)	1,2-Dibromoethane	24.56	107	11675	0.2053	ppbV		S	94
125)	n-Octane	25.28	43	19816	0.1838	ppbV		S	91
126)	Tetrachloroethene	25.40	164	7294	0.1859	ppbV		S	89
128)	Chlorobenzene	26.60	112	15703	0.1986	ppbV		S	94
129)	Ethylbenzene	27.34	91	20323	0.1633	ppbV	#	S	1
130)	m/p-Xylene	27.71	91	35070m	0.3407	ppbV		S	
131)	Bromoform	27.74	173	6216	0.1454	ppbV		S	91
134)	Styrene	28.38	104	11603	0.1572	ppbV	#	S	58
135)	1,1,2,2-Tetrachloroethane	28.58	83	14150	0.1994	ppbV		S	97
136)	o-Xylene	28.58	91	17276	0.1791	ppbV		S	98
140)	n-Nonane	29.18	43	18647	0.1809	ppbV		S	84
142)	Isopropylbenzene	29.80	105	21236	0.1460	ppbV		S	93

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050104.D Vial: 4
Acq On : 1 May 2011 2:50 pm Operator: DAH
Sample : 102 STD 20,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:29 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

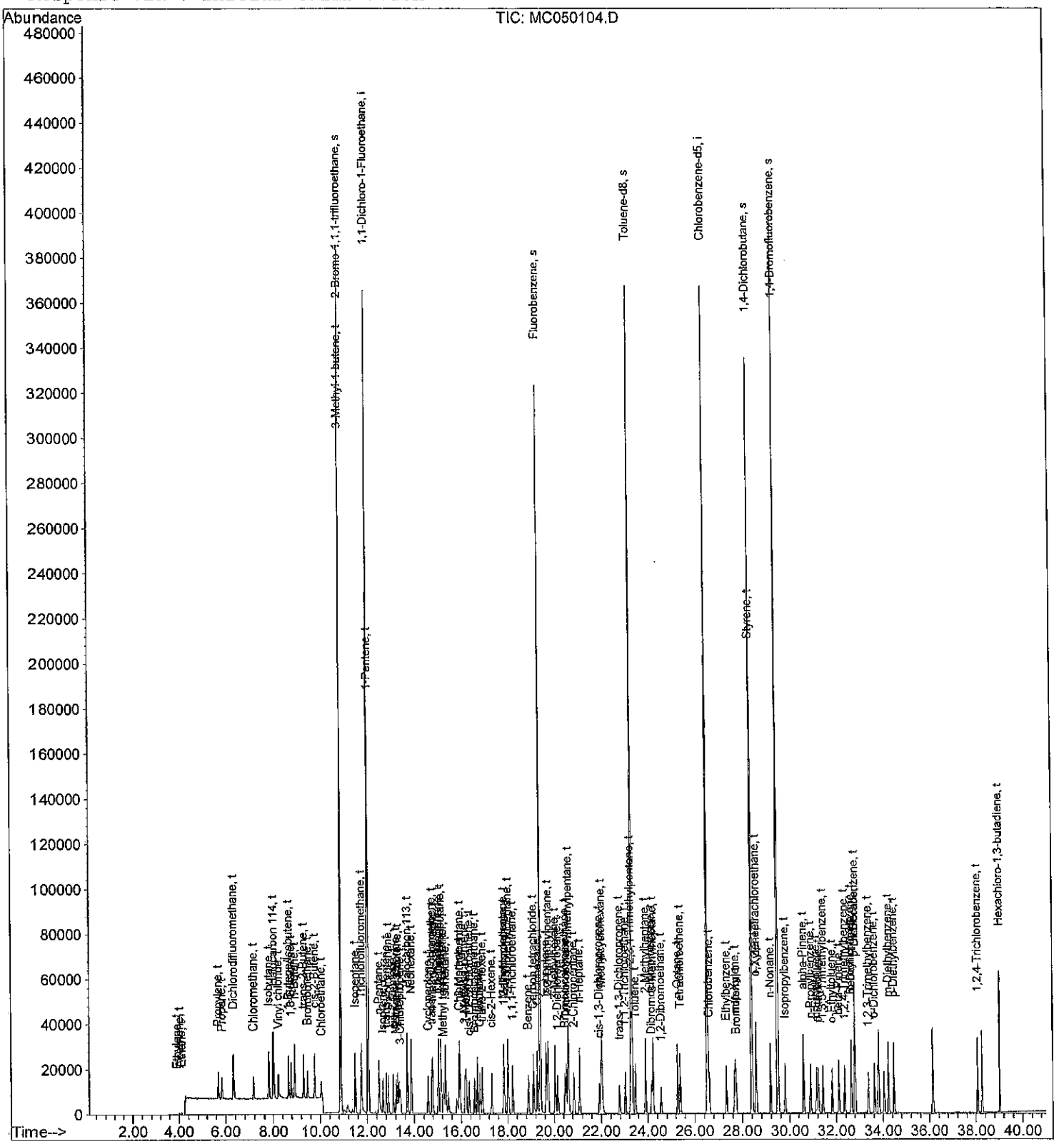
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
144) alpha-Pinene	30.59	93	19439	0.1637 ppbV	S	95
147) n-Propylbenzene	30.90	91	26165	0.1571 ppbV	S	97
148) m-Ethyltoluene	31.16	105	19236	0.1477 ppbV	S	94
149) p-Ethyltoluene	31.24	105	19371	0.1533 ppbV	S	96
150) 1,3,5-Trimethylbenzene	31.42	105	17330	0.1592 ppbV	S	94
151) o-Ethyltoluene	31.83	105	18714	0.1461 ppbV	S	94
152) beta-Pinene	32.11	93	12499	0.1020 ppbV	S	86
153) 1,2,4-Trimethylbenzene	32.35	105	17846	0.1672 ppbV	S	97
156) Benzyl chloride	32.63	91	10462	0.1226 ppbV	S	92
157) m-Dichlorobenzene	32.64	146	12868	0.1784 ppbV	S	93
158) n-Decane	32.79	57	20135	0.1917 ppbV	S	74
159) p-Dichlorobenzene	32.81	146	13240	0.1869 ppbV	S	89
161) 1,2,3-Trimethylbenzene	33.36	105	16373	0.1476 ppbV	S	94
163) o-Dichlorobenzene	33.62	146	12489	0.1801 ppbV	S	96
167) m-Diethylbenzene	34.24	105	16971	0.1667 ppbV	S	93
168) p-Diethylbenzene	34.47	119	15737	0.1566 ppbV #	S	1
172) 1,2,4-Trichlorobenzene	38.08	180	9927	0.1719 ppbV	S	95
174) Hexachloro-1,3-butadiene	39.02	225	8902	0.1979 ppbV	S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050104.D Vial: 4
Acq On : 1 May 2011 2:50 pm Operator: DAH
Sample : 102 STD 20,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:29 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050105.D Vial: 5
Acq On : 1 May 2011 3:47 pm Operator: DAH
Sample : 102 STD 50,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,50, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:17 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

MM 5-2-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.04	81	290298	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.53	117	224371	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.88	83	125431	1.7501 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 87.50%	
65) Fluorobenzene	19.41	96	288734	1.4923 ppbV	0.00
Spiked Amount 2.000			Recovery	= 74.50%	
113) Toluene-d8	23.30	98	267647	2.1218 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
115) 1,4-Dichlorobutane	28.40	90	40659	2.2016 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.00%	
141) 1,4-Bromofluorobenzene	29.48	95	182492	2.1977 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.00%	

Target Compounds						Qvalue
3) Ethylene	3.91	26	2098	0.4166 ppbV	S	95
4) Acetylene	4.02	26	7274	0.2546 ppbV	S	97
5) Ethane	4.11	26	4031	0.5212 ppbV	S	96
7) Propylene	5.69	41	19205	0.3780 ppbV	S	91
9) Propane	5.83	43	8360	0.3841 ppbV	S	91
10) Dichlorodifluoromethane	6.33	85	65209	0.4743 ppbV	S	95
11) Chloromethane	7.15	50	25646	0.4316 ppbV	S	96
12) Isobutane	7.80	43	53657	0.4246 ppbV	S	94
13) Halocarbon 114	8.00	85	69033	0.4559 ppbV	S	90
15) Vinyl chloride	8.23	62	21392	0.3513 ppbV	S	98
16) 1-Butene/Isobutene	8.66	41	29523	0.3378 ppbV	S	93
17) 1,3-Butadiene	8.77	39	17819	0.3597 ppbV	S	95
18) n-Butane	8.92	43	44730	0.4009 ppbV	S	98
20) trans-2-Butene	9.30	41	23989	0.3136 ppbV	S	96
23) Bromomethane	9.46	94	16298	0.3381 ppbV	S	94
24) cis-2-Butene	9.77	41	26548	0.3567 ppbV	S	94
25) Chloroethane	10.05	64	10021	0.3591 ppbV	S	90
27) 3-Methyl-1-butene	10.86	55	47693	0.3871 ppbV	S	93
31) Isopentane	11.49	41	28878	0.4154 ppbV #	S	31
32) Trichlorofluoromethane	11.76	101	55028	0.4427 ppbV	S	99
33) 1-Pentene	12.06	42	24735	0.3232 ppbV #	S	70
37) n-Pentane	12.50	43	36823	0.3359 ppbV	S	97
39) Isoprene	12.67	67	14869	0.2743 ppbV	S	83
40) trans-2-Pentene	12.82	55	28183	0.3103 ppbV	S	87
41) 1,1-Dichloroethene	12.91	61	27533	0.3637 ppbV	S	91
42) cis-2-Pentene	13.12	55	28193	0.3089 ppbV	S	89
43) Methylene chloride	13.24	49	24596	0.3968 ppbV	S	82
44) 2-Methyl-2-butene	13.30	55	30405	0.3230 ppbV	S	90
46) 3-Chloropropene	13.42	41	18565	0.2952 ppbV	S	88
47) Halocarbon 113	13.72	151	27609	0.3602 ppbV #	S	65
48) Neohexane	13.89	43	39721	0.4040 ppbV #	S	75
49) Cyclopentene	14.59	67	29258	0.2791 ppbV	S	89
50) trans-1,2-Dichloroethene	14.75	61	23050	0.3519 ppbV	S	81
51) 4-Methyl-1-pentene	14.79	43	30924	0.3332 ppbV	S	90
53) 1,1-Dichloroethane	15.04	63	28385	0.3732 ppbV #	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050105.D Vial: 5
Acq On : 1 May 2011 3:47 pm Operator: DAH
Sample : 102 STD 50,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,50, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:17 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.04	42	42810	0.3589	ppbV		S	97
55)	2,3-Dimethylbutane	15.15	43	58698	0.3427	ppbV		S	88
56)	Methyl tert-butyl ether	15.22	73	39589m	0.3024	ppbV		S	
57)	Isohexane	15.35	42	27205	0.3683	ppbV	#	S	65
63)	Chloroprene	15.92	53	26182	0.3649	ppbV	#	S	88
64)	3-Methylpentane	15.95	57	37383	0.3424	ppbV	#	S	1
66)	2-Methyl-1-pentene	16.18	56	26898	0.3129	ppbV		S	82
67)	1-Hexene	16.22	41	20510	0.4254	ppbV		S	94
68)	cis-1,2-Dichloroethene	16.34	61	22390	0.3839	ppbV		S	88
69)	Bromochloromethane	16.58	130	10808	0.3207	ppbV	#	S	83
71)	n-Hexane	16.70	57	27474	0.3424	ppbV		S	79
72)	Chloroform	16.82	83	30656	0.3985	ppbV		S	90
74)	trans-2-Hexene	16.92	55	29330	0.3312	ppbV		S	86
77)	cis-2-Hexene	17.32	55	24031	0.3032	ppbV		S	88
78)	Methylcyclopentane	17.85	56	36922	0.3226	ppbV		S	83
79)	1,2-Dichloroethane	17.87	62	25194	0.4574	ppbV		S	99
80)	2,4-Dimethylpentane	18.02	43	49423	0.3610	ppbV		S	84
81)	1,1,1-Trichloroethane	18.22	97	32624	0.3688	ppbV		S	94
84)	Benzene	18.89	78	35877	0.4365	ppbV		S	89
85)	Carbon tetrachloride	19.12	117	32341	0.4956	ppbV		S	94
87)	Cyclohexane	19.29	56	33236	0.4830	ppbV		S	88
88)	Isoheptane	19.67	43	50639	0.5080	ppbV		S	87
89)	2,3-Dimethylpentane	19.75	56	37545	0.4722	ppbV		S	84
91)	3-Methylhexane	20.04	43	38836	0.4829	ppbV		S	82
92)	1,2-Dichloropropane	20.16	63	15943	0.4914	ppbV	#	S	74
93)	Bromodichloromethane	20.48	83	30968	0.5539	ppbV		S	92
94)	Trichloroethene	20.54	130	17212	0.4409	ppbV		S	98
97)	2,2,4-Trimethylpentane	20.62	57	98363	0.4640	ppbV	#	S	44
98)	2-Chloropentane	20.85	70	16324	0.3839	ppbV		S	90
100)	n-Heptane	21.09	71	15725	0.4579	ppbV	#	S	39
104)	cis-1,3-Dichloropropene	21.93	75	20180	0.4440	ppbV		S	80
106)	Methylcyclohexane	22.02	83	28478	0.4420	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.79	75	20248	0.4695	ppbV		S	86
111)	1,1,2-Trichloroethane	23.03	97	16065	0.5115	ppbV		S	88
112)	2,3,4-Trimethylpentane	23.25	43	66652	0.5052	ppbV		S	84
114)	Toluene	23.47	91	44998	0.4931	ppbV		S	97
117)	2-Methylheptane	23.90	43	47290	0.5332	ppbV		S	90
119)	Dibromochloromethane	24.15	129	24858	0.4887	ppbV		S	95
120)	3-Methylheptane	24.22	85	20609	0.4416	ppbV	#	S	72
122)	1,2-Dibromoethane	24.56	107	25862	0.5267	ppbV		S	97
125)	n-Octane	25.28	43	48941	0.5257	ppbV		S	91
126)	Tetrachloroethene	25.39	164	15715	0.4639	ppbV		S	90
128)	Chlorobenzene	26.60	112	34343	0.5032	ppbV		S	95
129)	Ethylbenzene	27.34	91	49257	0.4586	ppbV	#	S	1
130)	m/p-Xylene	27.71	91	85884m	0.9666	ppbV		S	
131)	Bromoform	27.74	173	14664	0.3974	ppbV		S	90
134)	Styrene	28.38	104	27946	0.4385	ppbV	#	S	76
135)	1,1,2,2-Tetrachloroethane	28.58	83	35127	0.5735	ppbV		S	95
136)	o-Xylene	28.58	91	41433	0.4977	ppbV		S	98
140)	n-Nonane	29.18	43	47282	0.5312	ppbV		S	84
142)	Isopropylbenzene	29.80	105	52050	0.4147	ppbV		S	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050105.D Vial: 5
Acq On : 1 May 2011 3:47 pm Operator: DAH
Sample : 102 STD 50,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,50, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:17 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

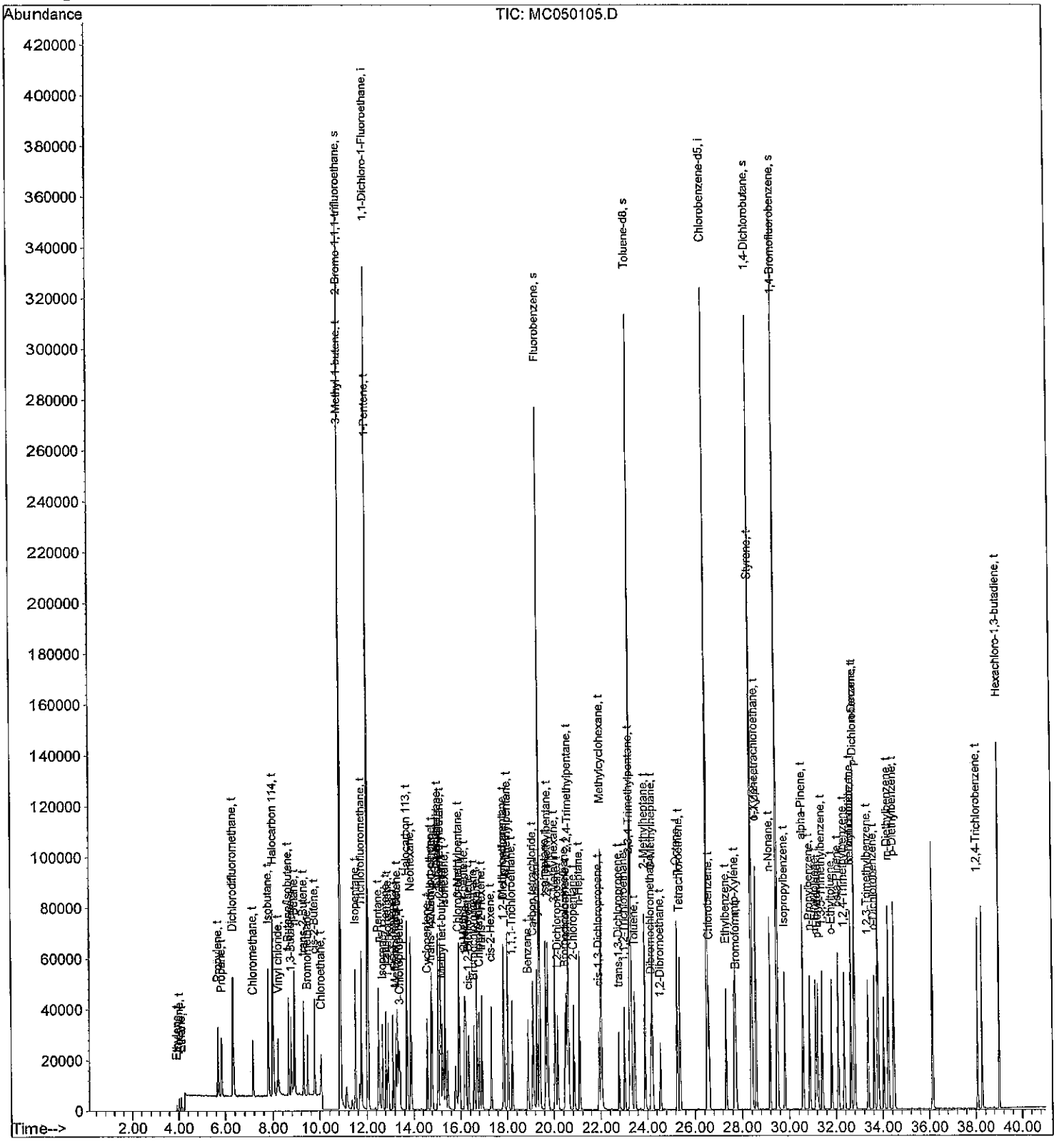
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.59	93	48674	0.4748	ppbV		S	94
147)	n-Propylbenzene	30.90	91	64436	0.4483	ppbV		S	98
148)	m-Ethyltoluene	31.16	105	47685	0.4241	ppbV		S	96
149)	p-Ethyltoluene	31.24	105	48894	0.4481	ppbV		S	96
150)	1,3,5-Trimethylbenzene	31.43	105	45325	0.4823	ppbV		S	93
151)	o-Ethyltoluene	31.83	105	47115	0.4259	ppbV		S	95
152)	beta-Pinene	32.11	93	33200	0.3139	ppbV		S	85
153)	1,2,4-Trimethylbenzene	32.35	105	45346	0.4921	ppbV		S	98
156)	Benzyl chloride	32.63	91	25596	0.3475	ppbV		S	94
157)	m-Dichlorobenzene	32.63	146	30936	0.4967	ppbV		S	94
158)	n-Decane	32.79	57	51255	0.5652	ppbV	#	S	72
159)	p-Dichlorobenzene	32.81	146	31590	0.5166	ppbV		S	91
161)	1,2,3-Trimethylbenzene	33.37	105	43263	0.4518	ppbV		S	93
163)	o-Dichlorobenzene	33.63	146	29492	0.4926	ppbV		S	95
167)	m-Diethylbenzene	34.24	105	44178	0.5026	ppbV		S	97
168)	p-Diethylbenzene	34.47	119	41926	0.4833	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	38.08	180	21637	0.4340	ppbV		S	96
174)	Hexachloro-1,3-butadiene	39.02	225	19213	0.4947	ppbV		S	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050105.D Vial: 5
Acq On : 1 May 2011 3:47 pm Operator: DAH
Sample : 102 STD 50,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,50, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:17 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050106.D Vial: 6
Acq On : 1 May 2011 4:45 pm Operator: DAH
Sample : 102 STD 100,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:21 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.04	81	307347	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.52	117	261157	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.88	83	138049	1.8194 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 91.00%	
65) Fluorobenzene	19.41	96	351357	1.7152 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 86.00%	
113) Toluene-d8	23.30	98	320891	2.1855 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 109.50%	
115) 1,4-Dichlorobutane	28.40	90	43676	2.0318 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 101.50%	
141) 1,4-Bromofluorobenzene	29.48	95	200050	2.0698 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	

Target Compounds						Qvalue
3) Ethylene	3.92	26	5083	0.9533 ppbV	S	97
4) Acetylene	4.02	26	18300	0.6050 ppbV	S	99
5) Ethane	4.11	26	8858	1.0818 ppbV	S	95
7) Propylene	5.69	41	46359	0.8619 ppbV	S	96
9) Propane	5.83	43	20238	0.8784 ppbV	S	96
10) Dichlorodifluoromethane	6.33	85	146416	1.0059 ppbV	S	96
11) Chloromethane	7.14	50	55007	0.8743 ppbV	S	97
12) Isobutane	7.79	43	118686	0.8871 ppbV	S	95
13) Halocarbon 114	8.00	85	143629	0.8960 ppbV	S	92
15) Vinyl chloride	8.22	62	50824	0.7883 ppbV	S	99
16) 1-Butene/Isobutene	8.65	41	78472	0.8481 ppbV	S	94
17) 1,3-Butadiene	8.77	39	47662	0.9088 ppbV	S	97
18) n-Butane	8.91	43	104330	0.8831 ppbV	S	96
20) trans-2-Butene	9.29	41	68039	0.8400 ppbV	S	94
23) Bromomethane	9.46	94	39961	0.7829 ppbV	S	94
24) cis-2-Butene	9.77	41	73000	0.9264 ppbV	S	95
25) Chloroethane	10.04	64	25575	0.8657 ppbV	S	88
27) 3-Methyl-1-butene	10.85	55	125480	0.9618 ppbV	S	92
31) Isopentane	11.49	41	70102	0.9525 ppbV #	S	30
32) Trichlorofluoromethane	11.76	101	133364	1.0135 ppbV	S	98
33) 1-Pentene	12.07	42	67901	0.8379 ppbV #	S	76
37) n-Pentane	12.50	43	98809	0.8512 ppbV	S	96
39) Isoprene	12.67	67	42191	0.7353 ppbV	S	83
40) trans-2-Pentene	12.82	55	80371	0.8357 ppbV	S	89
41) 1,1-Dichloroethene	12.91	61	69562	0.8679 ppbV	S	89
42) cis-2-Pentene	13.12	55	79019	0.8177 ppbV	S	88
43) Methylene chloride	13.24	49	58441	0.8904 ppbV	S	83
44) 2-Methyl-2-butene	13.30	55	87303	0.8760 ppbV	S	90
46) 3-Chloropropene	13.42	41	50393	0.7568 ppbV	S	85
47) Halocarbon 113	13.72	151	64107	0.7899 ppbV #	S	63
48) Neohexane	13.89	43	94722	0.9099 ppbV #	S	79
49) Cyclopentene	14.59	67	78313	0.7056 ppbV	S	89
50) trans-1,2-Dichloroethene	14.75	61	56633	0.8166 ppbV	S	85
51) 4-Methyl-1-pentene	14.79	43	86639	0.8818 ppbV	S	90
53) 1,1-Dichloroethane	15.04	63	70855	0.8800 ppbV #	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050106.D Vial: 6
Acq On : 1 May 2011 4:45 pm Operator: DAH
Sample : 102 STD 100,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:21 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.04	42	110658	0.8763	ppbV		S	96
55)	2,3-Dimethylbutane	15.14	43	149119	0.8224	ppbV		S	86
56)	Methyl tert-butyl ether	15.20	73	101314m	0.7310	ppbV		S	
57)	Isohexane	15.35	42	71003	0.9080	ppbV	#	S	66
63)	Chloroprene	15.92	53	68308	0.8992	ppbV	#	S	90
64)	3-Methylpentane	15.95	57	97603	0.8445	ppbV	#	S	1
66)	2-Methyl-1-pentene	16.18	56	68491m	0.7525	ppbV		S	
67)	1-Hexene	16.22	41	47120	0.9232	ppbV		S	94
68)	cis-1,2-Dichloroethene	16.35	61	52386	0.8484	ppbV		S	93
69)	Bromochloromethane	16.58	130	25120	0.7041	ppbV	#	S	81
71)	n-Hexane	16.70	57	68678	0.8084	ppbV		S	83
72)	Chloroform	16.82	83	71630	0.8794	ppbV		S	92
74)	trans-2-Hexene	16.92	55	80069	0.8540	ppbV		S	88
77)	cis-2-Hexene	17.32	55	64307	0.7663	ppbV		S	89
78)	Methylcyclopentane	17.84	56	95202	0.7858	ppbV		S	82
79)	1,2-Dichloroethane	17.87	62	59693	1.0237	ppbV		S	98
80)	2,4-Dimethylpentane	18.02	43	128778	0.8883	ppbV		S	85
81)	1,1,1-Trichloroethane	18.22	97	85693	0.9149	ppbV		S	94
84)	Benzene	18.89	78	91459	0.9560	ppbV		S	89
85)	Carbon tetrachloride	19.12	117	81806	1.0771	ppbV		S	95
87)	Cyclohexane	19.29	56	83672	1.0446	ppbV		S	89
88)	Isoheptane	19.66	43	121706	1.0490	ppbV		S	88
89)	2,3-Dimethylpentane	19.75	56	95948	1.0368	ppbV		S	86
91)	3-Methylhexane	20.04	43	94501	1.0095	ppbV		S	84
92)	1,2-Dichloropropane	20.16	63	37835	1.0019	ppbV	#	S	74
93)	Bromodichloromethane	20.47	83	67105	1.0312	ppbV		S	92
94)	Trichloroethene	20.54	130	37187	0.8184	ppbV		S	96
97)	2,2,4-Trimethylpentane	20.62	57	242678	0.9835	ppbV	#	S	43
98)	2-Chloropentane	20.85	70	41866	0.8460	ppbV		S	91
100)	n-Heptane	21.08	71	36346	0.9092	ppbV	#	S	47
104)	cis-1,3-Dichloropropene	21.93	75	44270	0.8368	ppbV		S	83
106)	Methylcyclohexane	22.02	83	69209	0.9229	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.79	75	41903	0.8347	ppbV		S	86
111)	1,1,2-Trichloroethane	23.03	97	33527	0.9170	ppbV		S	90
112)	2,3,4-Trimethylpentane	23.26	43	159347	1.0377	ppbV		S	84
114)	Toluene	23.47	91	102171	0.9619	ppbV		S	95
117)	2-Methylheptane	23.90	43	107258	1.0391	ppbV		S	90
119)	Dibromochloromethane	24.16	129	52438	0.8857	ppbV		S	98
120)	3-Methylheptane	24.21	85	46708	0.8599	ppbV	#	S	66
122)	1,2-Dibromoethane	24.56	107	50653	0.8863	ppbV		S	95
125)	n-Octane	25.28	43	107629	0.9933	ppbV		S	91
126)	Tetrachloroethene	25.39	164	33068	0.8386	ppbV		S	91
128)	Chlorobenzene	26.60	112	69160	0.8707	ppbV		S	94
129)	Ethylbenzene	27.34	91	111881	0.8949	ppbV	#	S	1
130)	m/p-Xylene	27.71	91	190412m	1.8412	ppbV		S	
131)	Bromoform	27.74	173	29894	0.6959	ppbV		S	89
134)	Styrene	28.38	104	60150	0.8109	ppbV		S	87
135)	1,1,2,2-Tetrachloroethane	28.58	83	71262	0.9995	ppbV		S	94
136)	o-Xylene	28.58	91	92890	0.9585	ppbV		S	97
140)	n-Nonane	29.18	43	102167	0.9862	ppbV		S	87
142)	Isopropylbenzene	29.80	105	118701	0.8124	ppbV		S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050106.D Vial: 6
Acq On : 1 May 2011 4:45 pm Operator: DAH
Sample : 102 STD 100,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:21 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

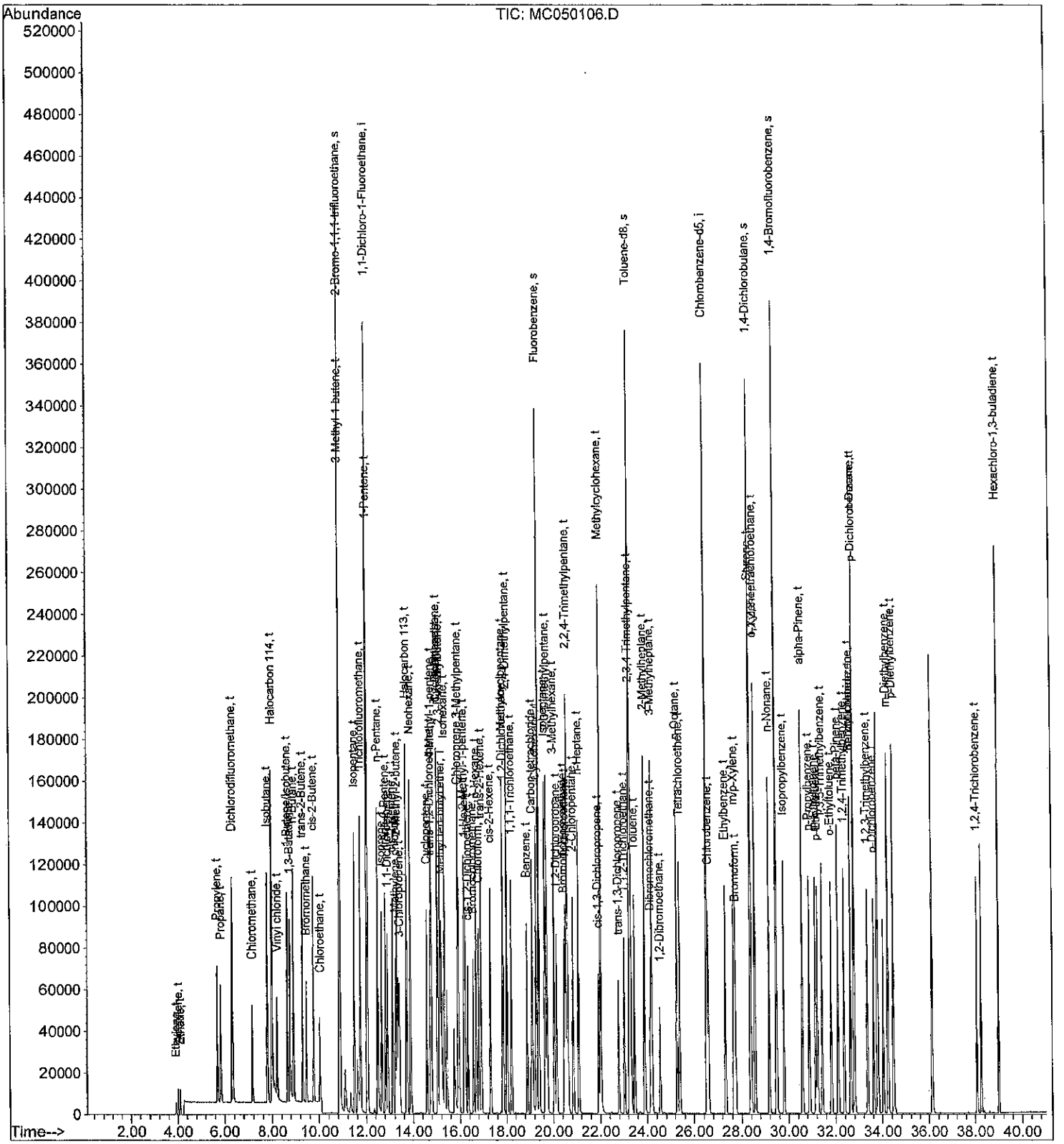
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144)	alpha-Pinene	30.59	93	111379	0.9334	ppbV	S	97
147)	n-Propylbenzene	30.90	91	139867	0.8360	ppbV	S	98
148)	m-Ethyltoluene	31.16	105	104598	0.7993	ppbV	S	97
149)	p-Ethyltoluene	31.24	105	105159	0.8280	ppbV	S	97
150)	1,3,5-Trimethylbenzene	31.43	105	100772	0.9212	ppbV	S	95
151)	o-Ethyltoluene	31.83	105	103730	0.8057	ppbV	S	97
152)	beta-Pinene	32.11	93	76549	0.6218	ppbV	S	85
153)	1,2,4-Trimethylbenzene	32.36	105	99905	0.9314	ppbV	S	98
156)	Benzyl chloride	32.63	91	52884	0.6169	ppbV	S	95
157)	m-Dichlorobenzene	32.63	146	58362	0.8051	ppbV	S	96
158)	n-Decane	32.79	57	107966	1.0229	ppbV	S	77
159)	p-Dichlorobenzene	32.81	146	58428	0.8209	ppbV	S	92
161)	1,2,3-Trimethylbenzene	33.36	105	92819	0.8328	ppbV	S	94
163)	o-Dichlorobenzene	33.63	146	58140	0.8343	ppbV	S	95
167)	m-Diethylbenzene	34.24	105	96821	0.9464	ppbV	S	95
168)	p-Diethylbenzene	34.47	119	91757	0.9087	ppbV #	S	1
172)	1,2,4-Trichlorobenzene	38.09	180	32216	0.5552	ppbV	S	98
174)	Hexachloro-1,3-butadiene	39.02	225	37260	0.8243	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050106.D Vial: 6
Acq On : 1 May 2011 4:45 pm Operator: DAH
Sample : 102 STD 100,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:21 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050107.D Vial: 7
Acq On : 1 May 2011 5:46 pm Operator: DAH
Sample : 102 STD 250,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,250, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:23 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

DAH 5/2/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.03	81	306990	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	232657	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	133640	1.7633 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 88.00%	
65) Fluorobenzene	19.40	96	314592	1.5375 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 77.00%	
113) Toluene-d8	23.30	98	287865	2.2008 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 110.00%	
115) 1,4-Dichlorobutane	28.41	90	41705	2.1778 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	
141) 1,4-Bromofluorobenzene	29.49	95	188211	2.1858 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	

Target Compounds						Qvalue
3) Ethylene	3.92	26	4508	0.8465 ppbV	S	99
4) Acetylene	4.02	26	28746	0.9514 ppbV	S	99
5) Ethane	4.11	26	15770	1.9281 ppbV	S	96
7) Propylene	5.69	41	121026	2.2528 ppbV	S	95
9) Propane	5.83	43	52429	2.2781 ppbV	S	95
10) Dichlorodifluoromethane	6.32	85	367502	2.5276 ppbV	S	95
11) Chloromethane	7.15	50	141157	2.2462 ppbV	S	97
12) Isobutane	7.79	43	302369	2.2627 ppbV	S	95
13) Halocarbon 114	7.98	85	367422	2.2946 ppbV	S	94
15) Vinyl chloride	8.21	62	132077	2.0510 ppbV	S	100
16) 1-Butene/Isobutene	8.65	41	209419	2.2661 ppbV	S	94
17) 1,3-Butadiene	8.75	39	132704	2.5332 ppbV	S	96
18) n-Butane	8.91	43	264806	2.2441 ppbV	S	98
20) trans-2-Butene	9.28	41	190097	2.3497 ppbV	S	95
23) Bromomethane	9.45	94	106777	2.0944 ppbV	S	95
24) cis-2-Butene	9.75	41	202549	2.5735 ppbV	S	95
25) Chloroethane	10.03	64	72544	2.4585 ppbV	S	88
27) 3-Methyl-1-butene	10.84	55	336566	2.5829 ppbV	S	92
31) Isopentane	11.47	41	182890	2.4880 ppbV #	S	31
32) Trichlorofluoromethane	11.74	101	353295	2.6879 ppbV	S	99
33) 1-Pentene	12.05	42	186742	2.3072 ppbV #	S	75
37) n-Pentane	12.48	43	263875	2.2759 ppbV	S	95
39) Isoprene	12.65	67	116014	2.0242 ppbV	S	83
40) trans-2-Pentene	12.81	55	220094	2.2912 ppbV	S	89
41) 1,1-Dichloroethene	12.90	61	194938	2.4351 ppbV	S	91
42) cis-2-Pentene	13.11	55	217360	2.2518 ppbV	S	89
43) Methylene chloride	13.23	49	162990	2.4862 ppbV	S	84
44) 2-Methyl-2-butene	13.29	55	236961	2.3803 ppbV	S	88
46) 3-Chloropropene	13.40	41	139477	2.0970 ppbV	S	87
47) Halocarbon 113	13.71	151	180233	2.2234 ppbV #	S	68
48) Neohexane	13.87	43	260326	2.5035 ppbV #	S	77
49) Cyclopentene	14.58	67	216642	1.9541 ppbV	S	91
50) trans-1,2-Dichloroethene	14.74	61	156177	2.2546 ppbV	S	86
51) 4-Methyl-1-pentene	14.77	43	238633	2.4316 ppbV	S	89
53) 1,1-Dichloroethane	15.03	63	186771	2.3224 ppbV #	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050107.D Vial: 7
Acq On : 1 May 2011 5:46 pm Operator: DAH
Sample : 102 STD 250,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,250, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:23 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.03	42	295932	2.3463	ppbV		S	97
55)	2,3-Dimethylbutane	15.13	43	495874	2.7378	ppbV		S	89
56)	Methyl tert-butyl ether	15.18	73	308235m	2.2265	ppbV		S	
57)	Isohexane	15.34	42	196919	2.5213	ppbV	#	S	64
63)	Chloroprene	15.91	53	184677	2.4340	ppbV	#	S	89
64)	3-Methylpentane	15.94	57	272029	2.3563	ppbV	#	S	1
66)	2-Methyl-1-pentene	16.17	56	197912	2.1769	ppbV		S	83
67)	1-Hexene	16.21	41	121545	2.3841	ppbV		S	94
68)	cis-1,2-Dichloroethene	16.33	61	141236	2.2901	ppbV		S	91
69)	Bromochloromethane	16.57	130	68980	1.9356	ppbV	#	S	85
71)	n-Hexane	16.70	57	183164	2.1586	ppbV		S	85
72)	Chloroform	16.80	83	189219	2.3258	ppbV		S	91
74)	trans-2-Hexene	16.91	55	208506	2.2264	ppbV		S	88
77)	cis-2-Hexene	17.31	55	172137	2.0535	ppbV		S	89
78)	Methylcyclopentane	17.84	56	266888	2.2054	ppbV		S	86
79)	1,2-Dichloroethane	17.86	62	158072	2.7140	ppbV		S	99
80)	2,4-Dimethylpentane	18.01	43	376225	2.5983	ppbV		S	87
81)	1,1,1-Trichloroethane	18.21	97	249140	2.6630	ppbV		S	95
84)	Benzene	18.88	78	234152	2.7474	ppbV		S	90
85)	Carbon tetrachloride	19.11	117	237549	3.5108	ppbV		S	95
87)	Cyclohexane	19.28	56	237897	3.3338	ppbV		S	90
88)	Isoheptane	19.66	43	339296	3.2827	ppbV		S	88
89)	2,3-Dimethylpentane	19.74	56	276262	3.3510	ppbV		S	87
91)	3-Methylhexane	20.04	43	266023	3.1899	ppbV		S	85
92)	1,2-Dichloropropane	20.15	63	96089	2.8561	ppbV	#	S	74
93)	Bromodichloromethane	20.47	83	175325	3.0243	ppbV		S	94
94)	Trichloroethene	20.53	130	100467	2.4818	ppbV		S	96
97)	2,2,4-Trimethylpentane	20.62	57	723764	3.2926	ppbV	#	S	42
98)	2-Chloropentane	20.84	70	113083	2.5650	ppbV		S	92
100)	n-Heptane	21.08	71	94934	2.6657	ppbV	#	S	44
104)	cis-1,3-Dichloropropene	21.92	75	123080	2.6114	ppbV		S	83
106)	Methylcyclohexane	22.01	83	201160	3.0111	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.78	75	126565	2.8300	ppbV		S	86
111)	1,1,2-Trichloroethane	23.03	97	88524	2.7179	ppbV		S	91
112)	2,3,4-Trimethylpentane	23.25	43	462762	3.3828	ppbV		S	86
114)	Toluene	23.47	91	268153	2.8338	ppbV		S	98
117)	2-Methylheptane	23.90	43	296290	3.2220	ppbV		S	91
119)	Dibromochloromethane	24.15	129	142010	2.6923	ppbV		S	98
120)	3-Methylheptane	24.21	85	131507	2.7175	ppbV	#	S	72
122)	1,2-Dibromoethane	24.56	107	138035	2.7111	ppbV		S	98
125)	n-Octane	25.28	43	290588	3.0104	ppbV		S	92
126)	Tetrachloroethene	25.39	164	88233	2.5118	ppbV		S	93
128)	Chlorobenzene	26.61	112	181027	2.5582	ppbV		S	97
129)	Ethylbenzene	27.35	91	308666	2.7714	ppbV	#	S	1
130)	m/p-Xylene	27.71	91	526493m	5.7145	ppbV		S	
131)	Bromoform	27.74	173	85580	2.2364	ppbV		S	90
134)	Styrene	28.38	104	170454	2.5795	ppbV		S	90
135)	1,1,2,2-Tetrachloroethane	28.58	83	189452	2.9827	ppbV		S	95
136)	o-Xylene	28.58	91	261000	3.0232	ppbV		S	98
140)	n-Nonane	29.18	43	279809	3.0319	ppbV		S	87
142)	Isopropylbenzene	29.80	105	333907	2.5653	ppbV		S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050107.D Vial: 7
Acq On : 1 May 2011 5:46 pm Operator: DAH
Sample : 102 STD 250,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,250, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:23 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

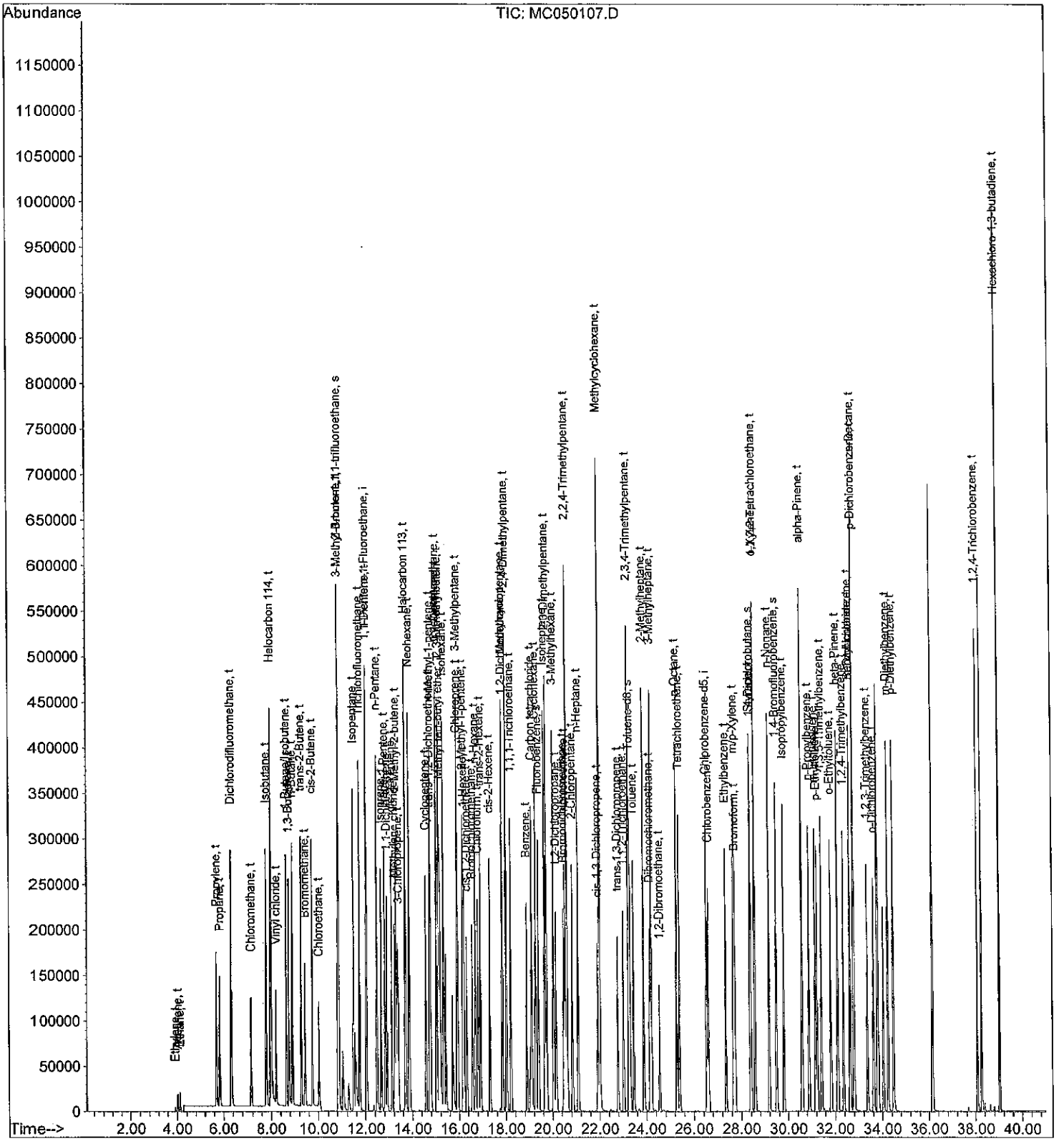
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144)	alpha-Pinene	30.60	93	334395	3.1455	ppbV	S	97
147)	n-Propylbenzene	30.90	91	390472	2.6199	ppbV	S	98
148)	m-Ethyltoluene	31.16	105	292850	2.5120	ppbV	S	96
149)	p-Ethyltoluene	31.24	105	289091	2.5551	ppbV	S	97
150)	1,3,5-Trimethylbenzene	31.44	105	276983	2.8422	ppbV	S	97
151)	o-Ethyltoluene	31.83	105	288679	2.5168	ppbV	S	97
152)	beta-Pinene	32.11	93	237454	2.1651	ppbV	S	88
153)	1,2,4-Trimethylbenzene	32.36	105	267926	2.8039	ppbV	S	98
156)	Benzyl chloride	32.64	91	158293	2.0725	ppbV	S	96
157)	m-Dichlorobenzene	32.64	146	163475	2.5315	ppbV	S	96
158)	n-Decane	32.79	57	267085	2.8405	ppbV	S	76
159)	p-Dichlorobenzene	32.82	146	161749	2.5508	ppbV	S	94
161)	1,2,3-Trimethylbenzene	33.37	105	243188	2.4492	ppbV	S	97
163)	o-Dichlorobenzene	33.63	146	148612	2.3938	ppbV	S	97
167)	m-Diethylbenzene	34.24	105	228147	2.5033	ppbV	S	98
168)	p-Diethylbenzene	34.47	119	220246	2.4483	ppbV #	S	1
172)	1,2,4-Trichlorobenzene	38.09	180	155847	3.0150	ppbV	S	98
174)	Hexachloro-1,3-butadiene	39.02	225	138621	3.4423	ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050107.D Vial: 7
Acq On : 1 May 2011 5:46 pm Operator: DAH
Sample : 102 STD 250,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,250, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:23 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050108.D Vial: 8
Acq On : 1 May 2011 6:47 pm Operator: DAH
Sample : 102 STD 500,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:26 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.03	81	300099	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	264471	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.87	83	127189	1.7167 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 86.00%	
65) Fluorobenzene	19.41	96	318617	1.5930 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 79.50%	
113) Toluene-d8	23.31	98	312678	2.1029 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
115) 1,4-Dichlorobutane	28.41	90	46171	2.1210 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
141) 1,4-Bromofluorobenzene	29.49	95	207711	2.1221 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	

Target Compounds					Qvalue
3) Ethylene	3.92	26	53535	10.2830 ppbV	S 97
4) Acetylene	4.02	26	131065	4.4373 ppbV	S 98
5) Ethane	4.11	26	54199	6.7788 ppbV	S 95
7) Propylene	5.68	41	259056	4.9328 ppbV	S 95
9) Propane	5.83	43	113203	5.0318 ppbV	S 92
10) Dichlorodifluoromethane	6.31	85	810385	5.7017 ppbV	S 96
11) Chloromethane	7.14	50	301971	4.9155 ppbV	S 97
12) Isobutane	7.79	43	659924	5.0518 ppbV	S 95
13) Halocarbon 114	7.98	85	810322	5.1768 ppbV	S 91
15) Vinyl chloride	8.21	62	288823	4.5881 ppbV	S 99
16) 1-Butene/Isobutene	8.65	41	446022	4.9371 ppbV	S 95
17) 1,3-Butadiene	8.75	39	281662	5.5001 ppbV	S 97
18) n-Butane	8.91	43	573048	4.9677 ppbV	S 97
20) trans-2-Butene	9.28	41	401777	5.0802 ppbV	S 96
23) Bromomethane	9.45	94	233219	4.6795 ppbV	S 94
24) cis-2-Butene	9.75	41	433394	5.6329 ppbV	S 94
25) Chloroethane	10.03	64	147787	5.1235 ppbV	S 90
27) 3-Methyl-1-butene	10.84	55	761791	5.9804 ppbV	S 92
31) Isopentane	11.47	41	414529	5.7686 ppbV #	S 32
32) Trichlorofluoromethane	11.74	101	819611	6.3789 ppbV	S 100
33) 1-Pentene	12.06	42	456456	5.7690 ppbV #	S 75
37) n-Pentane	12.48	43	629092	5.5505 ppbV	S 95
39) Isoprene	12.65	67	292731	5.2248 ppbV	S 81
40) trans-2-Pentene	12.81	55	562000	5.9847 ppbV	S 89
41) 1,1-Dichloroethene	12.90	61	462221	5.9064 ppbV	S 90
42) cis-2-Pentene	13.11	55	555777	5.8899 ppbV	S 89
43) Methylene chloride	13.23	49	386206	6.0265 ppbV	S 85
44) 2-Methyl-2-butene	13.29	55	602496	6.1912 ppbV	S 89
46) 3-Chloropropene	13.40	41	356165	5.4779 ppbV	S 88
47) Halocarbon 113	13.71	151	407309	5.1401 ppbV #	S 69
48) Neohexane	13.87	43	566537	5.5735 ppbV #	S 76
49) Cyclopentene	14.58	67	548966	5.0654 ppbV	S 91
50) trans-1,2-Dichloroethene	14.74	61	400018	5.9074 ppbV	S 84
51) 4-Methyl-1-pentene	14.78	43	578892	6.0342 ppbV	S 91
53) 1,1-Dichloroethane	15.03	63	500477	6.3660 ppbV #	S 100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050108.D Vial: 8
Acq On : 1 May 2011 6:47 pm Operator: DAH
Sample : 102 STD 500,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:26 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.03	42	702094	5.6944	ppbV		S	98
55)	2,3-Dimethylbutane	15.14	43	1122197	6.3382	ppbV		S	88
56)	Methyl tert-butyl ether	15.18	73	746463m	5.5157	ppbV		S	
57)	Isohexane	15.34	42	468299	6.1336	ppbV	#	S	63
63)	Chloroprene	15.92	53	514042	6.9306	ppbV	#	S	88
64)	3-Methylpentane	15.94	57	642848	5.6962	ppbV	#	S	1
66)	2-Methyl-1-pentene	16.17	56	561401	6.3167	ppbV		S	85
67)	1-Hexene	16.21	41	358281	7.1892	ppbV		S	95
68)	cis-1,2-Dichloroethene	16.34	61	378421	6.2769	ppbV		S	92
69)	Bromochloromethane	16.57	130	185852	5.3349	ppbV	#	S	84
71)	n-Hexane	16.70	57	497405	5.9965	ppbV		S	85
72)	Chloroform	16.80	83	520681	6.5469	ppbV		S	92
74)	trans-2-Hexene	16.92	55	596457	6.5152	ppbV		S	88
77)	cis-2-Hexene	17.31	55	490227	5.9825	ppbV		S	90
78)	Methylcyclopentane	17.84	56	664037	5.6132	ppbV		S	86
79)	1,2-Dichloroethane	17.86	62	445397	7.8229	ppbV		S	98
80)	2,4-Dimethylpentane	18.02	43	882174	6.2324	ppbV		S	87
81)	1,1,1-Trichloroethane	18.21	97	617433	6.7512	ppbV		S	97
84)	Benzene	18.89	78	674191	6.9590	ppbV		S	90
85)	Carbon tetrachloride	19.11	117	598005	7.7749	ppbV		S	97
87)	Cyclohexane	19.29	56	554919	6.8409	ppbV		S	91
88)	Isoheptane	19.66	43	879693	7.4872	ppbV		S	89
89)	2,3-Dimethylpentane	19.75	56	657985	7.0211	ppbV		S	87
91)	3-Methylhexane	20.04	43	684008	7.2153	ppbV		S	86
92)	1,2-Dichloropropane	20.15	63	279802	7.3163	ppbV		S	76
93)	Bromodichloromethane	20.47	83	513288	7.7890	ppbV		S	94
94)	Trichloroethene	20.54	130	294142	6.3920	ppbV		S	100
97)	2,2,4-Trimethylpentane	20.62	57	1708571	6.8378	ppbV	#	S	43
98)	2-Chloropentane	20.85	70	337528	6.7351	ppbV		S	93
100)	n-Heptane	21.09	71	270502	6.6818	ppbV	#	S	41
104)	cis-1,3-Dichloropropene	21.92	75	367045	6.8508	ppbV		S	82
106)	Methylcyclohexane	22.01	83	499450	6.5769	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.79	75	366158	7.2024	ppbV		S	88
111)	1,1,2-Trichloroethane	23.03	97	262578	7.0920	ppbV		S	91
112)	2,3,4-Trimethylpentane	23.26	43	1149760	7.3937	ppbV		S	85
114)	Toluene	23.47	91	800571	7.4426	ppbV		S	96
117)	2-Methylheptane	23.90	43	815695	7.8031	ppbV		S	92
119)	Dibromochloromethane	24.16	129	431713	7.2000	ppbV		S	99
120)	3-Methylheptane	24.22	85	366570	6.6638	ppbV	#	S	73
122)	1,2-Dibromoethane	24.56	107	400128	6.9135	ppbV		S	98
125)	n-Octane	25.28	43	846084	7.7108	ppbV		S	94
126)	Tetrachloroethene	25.40	164	271355	6.7956	ppbV		S	93
128)	Chlorobenzene	26.61	112	543516	6.7568	ppbV		S	97
129)	Ethylbenzene	27.35	91	946644	7.4772	ppbV	#	S	1
130)	m/p-Xylene	27.72	91	1600752m	15.2843	ppbV		S	
131)	Bromoform	27.75	173	257404	5.9173	ppbV		S	92
134)	Styrene	28.39	104	520504	6.9294	ppbV		S	92
135)	1,1,2,2-Tetrachloroethane	28.58	83	523976	7.2571	ppbV		S	96
136)	o-Xylene	28.58	91	776890	7.9164	ppbV		S	98
140)	n-Nonane	29.19	43	807525	7.6974	ppbV		S	88
142)	Isopropylbenzene	29.81	105	1002848	6.7778	ppbV		S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050108.D Vial: 8
Acq On : 1 May 2011 6:47 pm Operator: DAH
Sample : 102 STD 500,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:26 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

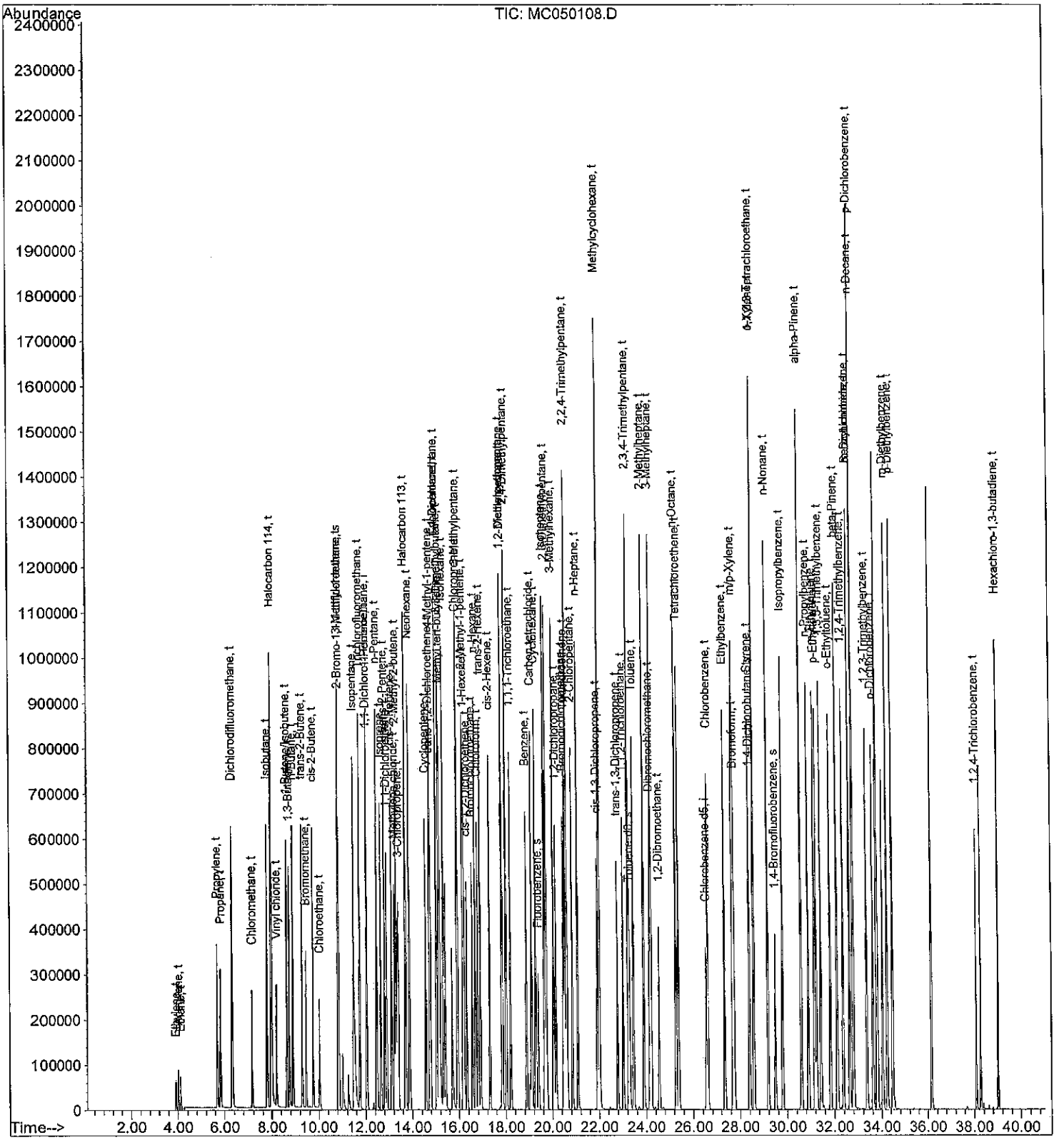
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144) alpha-Pinene	30.60	93	943541	7.8078	ppbV	S	99
147) n-Propylbenzene	30.90	91	1166713	6.8864	ppbV	S	98
148) m-Ethyltoluene	31.16	105	889394	6.7114	ppbV	S	97
149) p-Ethyltoluene	31.25	105	864113	6.7185	ppbV	S	98
150) 1,3,5-Trimethylbenzene	31.44	105	814765	7.3549	ppbV	S	96
151) o-Ethyltoluene	31.83	105	863082	6.6196	ppbV	S	98
152) beta-Pinene	32.12	93	674632	5.4113	ppbV	S	89
153) 1,2,4-Trimethylbenzene	32.36	105	812999	7.4848	ppbV	S	98
156) Benzyl chloride	32.64	91	570987	6.5767	ppbV	S	97
157) m-Dichlorobenzene	32.64	146	489120	6.6631	ppbV	S	97
158) n-Decane	32.80	57	796786	7.4545	ppbV	S	80
159) p-Dichlorobenzene	32.82	146	477266	6.6211	ppbV	S	94
161) 1,2,3-Trimethylbenzene	33.38	105	780507	6.9149	ppbV	S	97
163) o-Dichlorobenzene	33.64	146	486649	6.8959	ppbV	S	98
167) m-Diethylbenzene	34.24	105	742581	7.1678	ppbV	S	98
168) p-Diethylbenzene	34.48	119	731713	7.1554	ppbV #	S	1
172) 1,2,4-Trichlorobenzene	38.09	180	188034	3.2001	ppbV	S	98
174) Hexachloro-1,3-butadiene	39.02	225	151311	3.3054	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050108.D Vial: 8
Acq On : 1 May 2011 6:47 pm Operator: DAH
Sample : 102 STD 500,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 12:26 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050109.D Vial: 9
Acq On : 1 May 2011 7:51 pm Operator: DAH
Sample : 102 STD 750,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,750, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:40 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.03	81	334726	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	245537	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	134731	1.6304 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 81.50%	
65) Fluorobenzene	19.41	96	313720	1.4062 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 70.50%	
113) Toluene-d8	23.31	98	290249	2.1026 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
115) 1,4-Dichlorobutane	28.41	90	46199	2.2859 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
141) 1,4-Bromofluorobenzene	29.49	95	201565	2.2181 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.00%	

Target Compounds						Qvalue
3) Ethylene	3.92	26	47846	8.2395 ppbV	S	97
4) Acetylene	4.02	26	169087	5.1324 ppbV	S	99
5) Ethane	4.12	26	77462	8.6861 ppbV	S	96
7) Propylene	5.69	41	433449	7.3996 ppbV	S	95
9) Propane	5.83	43	186204	7.4204 ppbV	S	93
10) Dichlorodifluoromethane	6.32	85	1359410	8.5751 ppbV	S	96
11) Chloromethane	7.14	50	506201	7.3876 ppbV	S	97
12) Isobutane	7.79	43	1081307	7.4212 ppbV	S	95
13) Halocarbon 114	7.98	85	1329915	7.6174 ppbV	S	88
15) Vinyl chloride	8.21	62	468182	6.6679 ppbV	S	99
16) 1-Butene/Isobutene	8.64	41	704553	6.9920 ppbV	S	95
17) 1,3-Butadiene	8.75	39	440962	7.7201 ppbV	S	98
18) n-Butane	8.91	43	888305	6.9040 ppbV	S	97
20) trans-2-Butene	9.28	41	621625	7.0470 ppbV	S	97
23) Bromomethane	9.44	94	371388	6.6809 ppbV	S	95
24) cis-2-Butene	9.75	41	661546	7.7087 ppbV	S	96
25) Chloroethane	10.02	64	226194	7.0305 ppbV	S	89
27) 3-Methyl-1-butene	10.84	55	1201732	8.4582 ppbV	S	91
31) Isopentane	11.47	41	656134	8.1862 ppbV #	S	33
32) Trichlorofluoromethane	11.74	101	1303683	9.0968 ppbV	S	99
33) 1-Pentene	12.05	42	662143	7.5029 ppbV #	S	75
37) n-Pentane	12.48	43	931719	7.3702 ppbV	S	96
39) Isoprene	12.65	67	428825	6.8621 ppbV	S	83
40) trans-2-Pentene	12.81	55	807480	7.7093 ppbV	S	89
41) 1,1-Dichloroethene	12.90	61	669624	7.6715 ppbV	S	92
42) cis-2-Pentene	13.10	55	798336	7.5853 ppbV	S	89
43) Methylene chloride	13.23	49	550911	7.7073 ppbV	S	85
44) 2-Methyl-2-butene	13.29	55	874727	8.0588 ppbV	S	90
46) 3-Chloropropene	13.39	41	512509	7.0671 ppbV	S	88
47) Halocarbon 113	13.70	151	676557	7.6547 ppbV #	S	72
48) Neohexane	13.87	43	918792	8.1038 ppbV #	S	76
49) Cyclopentene	14.57	67	797641	6.5986 ppbV	S	90
50) trans-1,2-Dichloroethene	14.74	61	573872	7.5982 ppbV	S	87
51) 4-Methyl-1-pentene	14.77	43	866305	8.0960 ppbV	S	91
53) 1,1-Dichloroethane	15.03	63	714813	8.1518 ppbV #	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050109.D Vial: 9
Acq On : 1 May 2011 7:51 pm Operator: DAH
Sample : 102 STD 750,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,750, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:40 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.03	42	1048097	7.6214	ppbV		S	98
55)	2,3-Dimethylbutane	15.13	43	1796288	9.0960	ppbV		S	88
56)	Methyl tert-butyl ether	15.17	73	1226028m	8.1221	ppbV		S	
57)	Isohexane	15.33	42	706313	8.2940	ppbV	#	S	63
63)	Chloroprene	15.91	53	738785	8.9302	ppbV	#	S	88
64)	3-Methylpentane	15.94	57	980077	7.7860	ppbV	#	S	1
66)	2-Methyl-1-pentene	16.17	56	803867	8.1092	ppbV		S	85
67)	1-Hexene	16.21	41	511267	9.1977	ppbV		S	94
68)	cis-1,2-Dichloroethene	16.33	61	539629	8.0249	ppbV		S	92
69)	Bromochloromethane	16.56	130	269668	6.9401	ppbV		S	88
71)	n-Hexane	16.69	57	711552	7.6907	ppbV		S	85
72)	Chloroform	16.80	83	738996	8.3307	ppbV		S	92
74)	trans-2-Hexene	16.91	55	847171	8.2965	ppbV		S	90
77)	cis-2-Hexene	17.31	55	697111	7.6272	ppbV		S	90
78)	Methylcyclopentane	17.83	56	986280	7.4747	ppbV		S	86
79)	1,2-Dichloroethane	17.85	62	635024	9.9997	ppbV		S	97
80)	2,4-Dimethylpentane	18.01	43	1325198	8.3938	ppbV		S	88
81)	1,1,1-Trichloroethane	18.21	97	932967	9.1460	ppbV		S	99
84)	Benzene	18.89	78	966224	10.7425	ppbV		S	90
85)	Carbon tetrachloride	19.11	117	898504	12.5826	ppbV		S	96
87)	Cyclohexane	19.28	56	847414	11.2523	ppbV		S	92
88)	Isoheptane	19.66	43	1249710	11.4566	ppbV		S	89
89)	2,3-Dimethylpentane	19.74	56	979909	11.2625	ppbV		S	88
91)	3-Methylhexane	20.04	43	985895	11.2018	ppbV		S	86
92)	1,2-Dichloropropane	20.15	63	398889	11.2345	ppbV		S	77
93)	Bromodichloromethane	20.47	83	734964	12.0129	ppbV		S	94
94)	Trichloroethene	20.54	130	428889	10.0389	ppbV		S	99
97)	2,2,4-Trimethylpentane	20.62	57	2540388	10.9508	ppbV	#	S	42
98)	2-Chloropentane	20.85	70	486085	10.4474	ppbV		S	94
100)	n-Heptane	21.09	71	382936	10.1885	ppbV	#	S	44
104)	cis-1,3-Dichloropropene	21.92	75	537408	10.8040	ppbV		S	83
106)	Methylcyclohexane	22.01	83	727579	10.3198	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.78	75	559275	11.8493	ppbV		S	88
111)	1,1,2-Trichloroethane	23.03	97	387478	11.2725	ppbV		S	92
112)	2,3,4-Trimethylpentane	23.26	43	1655150	11.4644	ppbV		S	86
114)	Toluene	23.47	91	1163567	11.6513	ppbV		S	97
117)	2-Methylheptane	23.90	43	1161768	11.9707	ppbV		S	93
119)	Dibromochloromethane	24.16	129	645390	11.5937	ppbV		S	99
120)	3-Methylheptane	24.22	85	528127	10.3410	ppbV	#	S	75
122)	1,2-Dibromoethane	24.56	107	604731	11.2544	ppbV		S	99
125)	n-Octane	25.28	43	1211420	11.8917	ppbV		S	94
126)	Tetrachloroethene	25.40	164	397720	10.7282	ppbV		S	93
128)	Chlorobenzene	26.61	112	815549	10.9205	ppbV		S	97
129)	Ethylbenzene	27.35	91	1424933	12.1229	ppbV	#	S	1
130)	m/p-Xylene	27.72	91	2424057m	24.9303	ppbV		S	
131)	Bromoform	27.75	173	406918	10.0758	ppbV		S	93
134)	Styrene	28.39	104	812280	11.6477	ppbV		S	93
135)	1,1,2,2-Tetrachloroethane	28.58	83	818141	12.2051	ppbV		S	96
136)	o-Xylene	28.59	91	1176782	12.9159	ppbV		S	98
140)	n-Nonane	29.19	43	1219605	12.5218	ppbV		S	89
142)	Isopropylbenzene	29.81	105	1560820	11.3623	ppbV		S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050109.D Vial: 9
Acq On : 1 May 2011 7:51 pm Operator: DAH
Sample : 102 STD 750,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,750, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:40 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

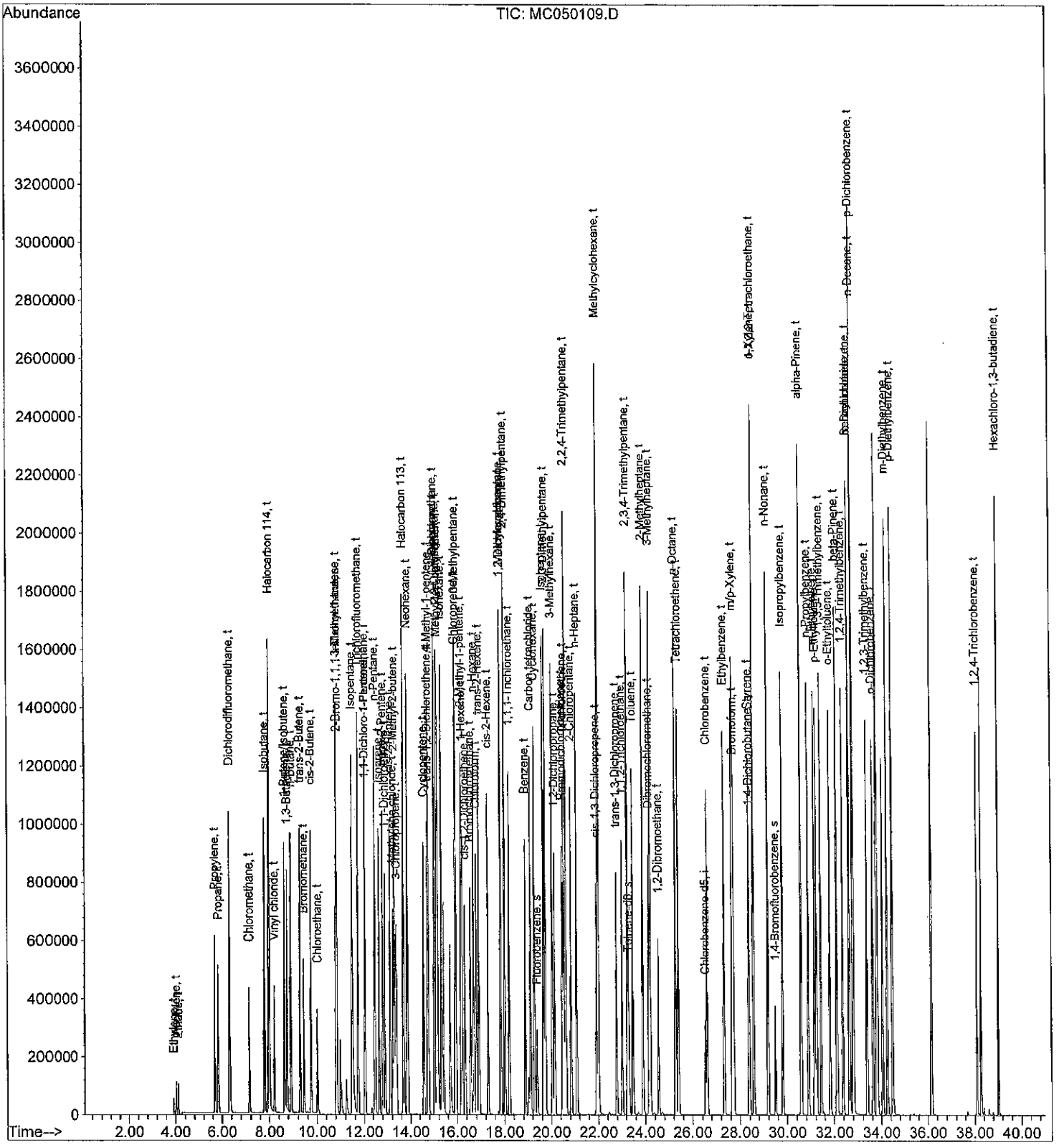
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144)	alpha-Pinene	30.60	93	1413176	12.5957	ppbV	S	100
147)	n-Propylbenzene	30.91	91	1842779	11.7156	ppbV	S	99
148)	m-Ethyltoluene	31.17	105	1422102	11.5587	ppbV	S	98
149)	p-Ethyltoluene	31.25	105	1405054	11.7668	ppbV	S	98
150)	1,3,5-Trimethylbenzene	31.44	105	1311501	12.7519	ppbV	S	97
151)	o-Ethyltoluene	31.84	105	1391701	11.4970	ppbV	S	99
152)	beta-Pinene	32.12	93	1030421	8.9025	ppbV	S	90
153)	1,2,4-Trimethylbenzene	32.37	105	1315210	13.0420	ppbV	S	98
156)	Benzyl chloride	32.64	91	979847	12.1562	ppbV	S	97
157)	m-Dichlorobenzene	32.65	146	805252	11.8155	ppbV	S	98
158)	n-Decane	32.81	57	1248318	12.5795	ppbV	S	83
159)	p-Dichlorobenzene	32.82	146	803292	12.0033	ppbV	S	94
161)	1,2,3-Trimethylbenzene	33.38	105	1259634	12.0204	ppbV	S	97
163)	o-Dichlorobenzene	33.64	146	790335	12.0628	ppbV	S	98
167)	m-Diethylbenzene	34.25	105	1169709	12.1614	ppbV	S	100
168)	p-Diethylbenzene	34.48	119	1168701	12.3101	ppbV #	S	1
172)	1,2,4-Trichlorobenzene	38.09	180	416806	7.6405	ppbV	S	98
174)	Hexachloro-1,3-butadiene	39.03	225	328387	7.7268	ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050109.D Vial: 9
Acq On : 1 May 2011 7:51 pm Operator: DAH
Sample : 102 STD 750,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,750, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:40 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050110.D Vial: 10
Acq On : 1 May 2011 8:56 pm Operator: DAH
Sample : 102 STD 1000,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,1000, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:42 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.03	81	358871	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.54	117	213001	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.87	83	129844	1.4655 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 73.50%	
65) Fluorobenzene	19.41	96	271953	1.1370 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 57.00%	
113) Toluene-d8	23.31	98	254966	2.1291 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	
115) 1,4-Dichlorobutane	28.42	90	42107	2.4017 ppbV	0.00
Spiked Amount 2.000			Recovery	= 120.00%	
141) 1,4-Bromofluorobenzene	29.50	95	178295	2.2618 ppbV	0.01
Spiked Amount 2.000			Recovery	= 113.00%	

Target Compounds						Qvalue
3) Ethylene	3.92	26	103974	16.7006 ppbV	S	98
4) Acetylene	4.03	26	298179	8.4419 ppbV	S	99
5) Ethane	4.12	26	122696	12.8327 ppbV	S	96
7) Propylene	5.69	41	630604	10.0410 ppbV	S	94
9) Propane	5.83	43	267644	9.9483 ppbV	S	91
10) Dichlorodifluoromethane	6.32	85	2031579	11.9530 ppbV	S	96
11) Chloromethane	7.14	50	710759	9.6751 ppbV	S	97
12) Isobutane	7.79	43	1499363	9.5981 ppbV	S	94
13) Halocarbon 114	7.98	85	1903294	10.1681 ppbV	S	84
15) Vinyl chloride	8.21	62	666066	8.8479 ppbV	S	99
16) 1-Butene/Isobutene	8.64	41	997846	9.2364 ppbV	S	94
17) 1,3-Butadiene	8.75	39	638861	10.4322 ppbV	S	97
18) n-Butane	8.91	43	1224055	8.8735 ppbV	S	96
20) trans-2-Butene	9.28	41	874548	9.2471 ppbV	S	97
23) Bromomethane	9.45	94	541101	9.0790 ppbV	S	94
24) cis-2-Butene	9.75	41	922812	10.0297 ppbV	S	97
25) Chloroethane	10.03	64	305276	8.8501 ppbV	S	89
27) 3-Methyl-1-butene	10.84	55	1730532	11.3606 ppbV	S	92
31) Isopentane	11.47	41	931413	10.8389 ppbV #	S	37
32) Trichlorofluoromethane	11.74	101	2027027	13.1924 ppbV	S	99
33) 1-Pentene	12.05	42	940898	9.9442 ppbV #	S	77
37) n-Pentane	12.48	43	1309599	9.6624 ppbV	S	95
39) Isoprene	12.65	67	627031	9.3587 ppbV	S	80
40) trans-2-Pentene	12.81	55	1228121	10.9365 ppbV	S	90
41) 1,1-Dichloroethene	12.90	61	1009112	10.7830 ppbV	S	92
42) cis-2-Pentene	13.11	55	1212334	10.7438 ppbV	S	90
43) Methylene chloride	13.23	49	817400	10.6661 ppbV	S	84
44) 2-Methyl-2-butene	13.29	55	1320502	11.3472 ppbV	S	91
46) 3-Chloropropene	13.40	41	752497	9.6782 ppbV	S	87
47) Halocarbon 113	13.71	151	1077318	11.3689 ppbV	S	84
48) Neohexane	13.87	43	1272113	10.4653 ppbV #	S	78
49) Cyclopentene	14.58	67	1133018	8.7425 ppbV	S	90
50) trans-1,2-Dichloroethene	14.74	61	865566	10.6892 ppbV	S	86
51) 4-Methyl-1-pentene	14.77	43	1178729	10.2746 ppbV	S	90
53) 1,1-Dichloroethane	15.03	63	1061352	11.2894 ppbV #	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050110.D Vial: 10
Acq On : 1 May 2011 8:56 pm Operator: DAH
Sample : 102 STD 1000,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,1000, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:42 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.03	42	1376472	9.3358	ppbV		S	94
55)	2,3-Dimethylbutane	15.13	43	2450747	11.5750	ppbV		S	87
56)	Methyl tert-butyl ether	15.18	73	1802045m	11.1349	ppbV		S	
57)	Isohexane	15.34	42	932092	10.2088	ppbV	#	S	61
63)	Chloroprene	15.92	53	1141146	12.8658	ppbV	#	S	89
64)	3-Methylpentane	15.94	57	1353777	10.0311	ppbV	#	S	1
66)	2-Methyl-1-pentene	16.17	56	1091670m	10.2716	ppbV		S	
67)	1-Hexene	16.21	41	685166	11.4968	ppbV		S	96
68)	cis-1,2-Dichloroethene	16.34	61	804800	11.1631	ppbV		S	92
69)	Bromochloromethane	16.58	130	392185	9.4140	ppbV		S	100
71)	n-Hexane	16.70	57	952175	9.5991	ppbV		S	94
72)	Chloroform	16.81	83	970075	10.1999	ppbV		S	91
74)	trans-2-Hexene	16.91	55	1125282	10.2787	ppbV		S	95
77)	cis-2-Hexene	17.31	55	889853	9.0809	ppbV		S	93
78)	Methylcyclopentane	17.83	56	1338557	9.4619	ppbV		S	86
79)	1,2-Dichloroethane	17.86	62	947050	13.9098	ppbV		S	96
80)	2,4-Dimethylpentane	18.01	43	1809983	10.6931	ppbV		S	88
81)	1,1,1-Trichloroethane	18.21	97	1315420	12.0277	ppbV		S	99
84)	Benzene	18.89	78	1344903	17.2367	ppbV		S	90
85)	Carbon tetrachloride	19.11	117	1238367	19.9911	ppbV		S	97
87)	Cyclohexane	19.29	56	1138679	17.4294	ppbV		S	92
88)	Isoheptane	19.66	43	1721974	18.1974	ppbV		S	88
89)	2,3-Dimethylpentane	19.74	56	1348426	17.8654	ppbV		S	87
91)	3-Methylhexane	20.04	43	1363878	17.8635	ppbV		S	85
92)	1,2-Dichloropropane	20.15	63	551388	17.9017	ppbV	#	S	75
93)	Bromodichloromethane	20.48	83	1042163	19.6359	ppbV		S	94
94)	Trichloroethene	20.54	130	604816	16.3193	ppbV		S	98
97)	2,2,4-Trimethylpentane	20.62	57	3494329	17.3639	ppbV	#	S	42
98)	2-Chloropentane	20.85	70	677423	16.7838	ppbV		S	93
100)	n-Heptane	21.09	71	536441	16.4529	ppbV	#	S	42
104)	cis-1,3-Dichloropropene	21.93	75	769960	17.8437	ppbV		S	82
106)	Methylcyclohexane	22.01	83	994605	16.2621	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.79	75	807175	19.7139	ppbV		S	88
111)	1,1,2-Trichloroethane	23.04	97	540660	18.1315	ppbV		S	91
112)	2,3,4-Trimethylpentane	23.26	43	2304371	18.3993	ppbV		S	85
114)	Toluene	23.48	91	1631259	18.8297	ppbV		S	98
117)	2-Methylheptane	23.90	43	1645696	19.5473	ppbV		S	92
119)	Dibromochloromethane	24.16	129	921275	19.0777	ppbV		S	99
120)	3-Methylheptane	24.23	85	738280	16.6641	ppbV	#	S	73
122)	1,2-Dibromoethane	24.56	107	871093	18.6879	ppbV		S	99
125)	n-Octane	25.29	43	1728743	19.5621	ppbV		S	94
126)	Tetrachloroethene	25.41	164	565755	17.5920	ppbV		S	93
128)	Chlorobenzene	26.61	112	1138838	17.5788	ppbV		S	97
129)	Ethylbenzene	27.35	91	1993158	19.5474	ppbV	#	S	1
130)	m/p-Xylene	27.72	91	3441678m	40.8027	ppbV		S	
131)	Bromoform	27.76	173	576114	16.4443	ppbV		S	94
134)	Styrene	28.39	104	1146812	18.9566	ppbV		S	93
135)	1,1,2,2-Tetrachloroethane	28.59	83	1142124	19.6408	ppbV		S	97
136)	o-Xylene	28.59	91	1677607	21.2253	ppbV		S	98
140)	n-Nonane	29.19	43	1758046	20.8072	ppbV		S	89
142)	Isopropylbenzene	29.81	105	2219320	18.6239	ppbV		S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050110.D Vial: 10
Acq On : 1 May 2011 8:56 pm Operator: DAH
Sample : 102 STD 1000,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,1000, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:42 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

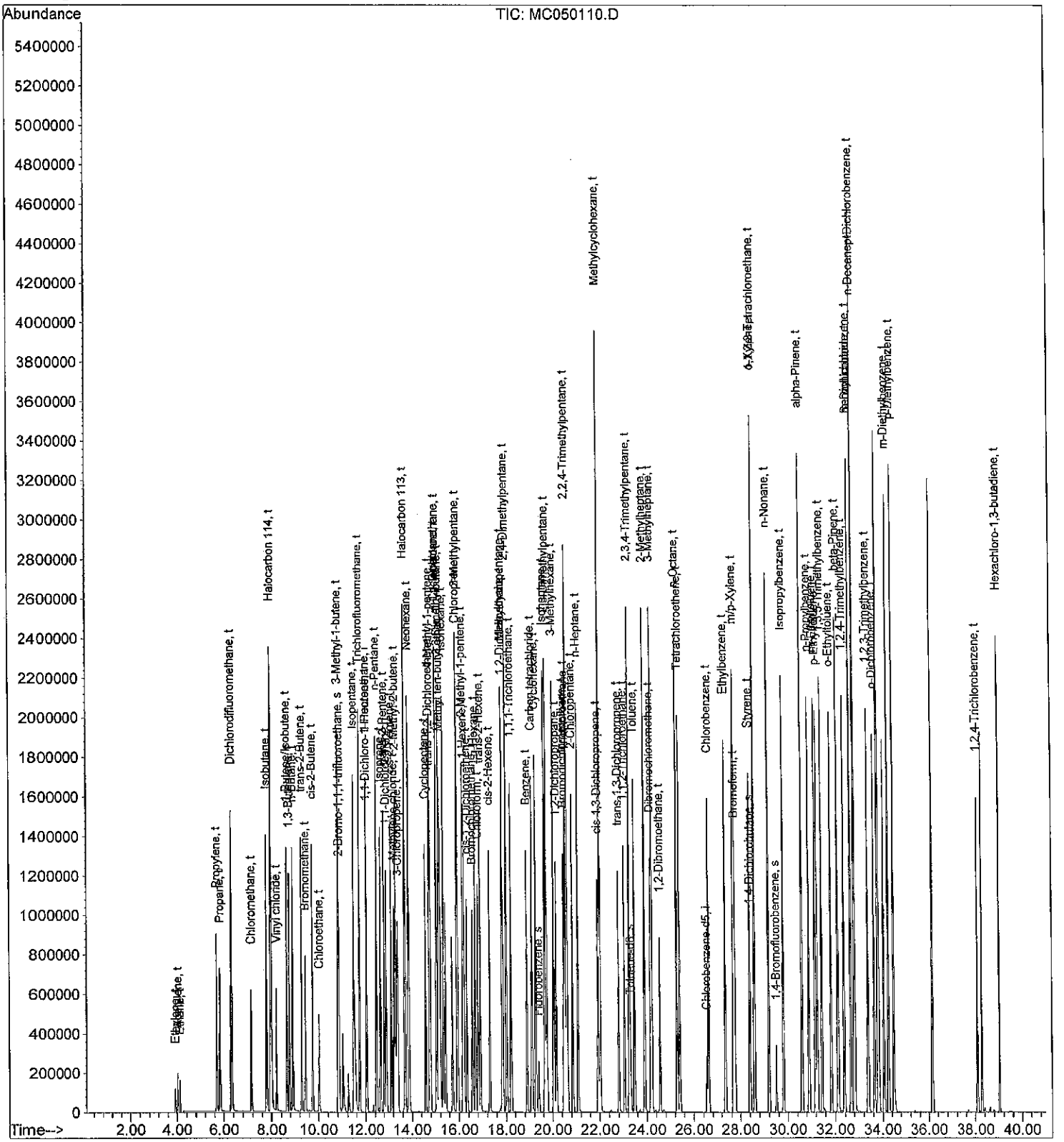
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144)	alpha-Pinene	30.61	93	1995238	20.5001	ppbV	S	99
147)	n-Propylbenzene	30.91	91	2619967	19.2009	ppbV	S	98
148)	m-Ethyltoluene	31.17	105	2031778	19.0366	ppbV	S	98
149)	p-Ethyltoluene	31.26	105	2008930	19.3939	ppbV	S	98
150)	1,3,5-Trimethylbenzene	31.45	105	1886084	21.1399	ppbV	S	97
151)	o-Ethyltoluene	31.84	105	1988318	18.9347	ppbV	S	98
152)	beta-Pinene	32.12	93	1456594	14.5069	ppbV	S	90
153)	1,2,4-Trimethylbenzene	32.37	105	1903514	21.7591	ppbV	S	98
156)	Benzyl chloride	32.65	91	1519070	21.7247	ppbV	S	97
157)	m-Dichlorobenzene	32.65	146	1180347	19.9649	ppbV	S	98
158)	n-Decane	32.81	57	1833213	21.2955	ppbV	S	84
159)	p-Dichlorobenzene	32.83	146	1191338	20.5210	ppbV	S	95
161)	1,2,3-Trimethylbenzene	33.38	105	1854027	20.3950	ppbV	S	97
163)	o-Dichlorobenzene	33.64	146	1173280	20.6430	ppbV	S	98
167)	m-Diethylbenzene	34.25	105	1787445	21.4226	ppbV	S	100
168)	p-Diethylbenzene	34.48	119	1790045	21.7348	ppbV #	S	1
172)	1,2,4-Trichlorobenzene	38.09	180	501550	10.5984	ppbV	S	98
174)	Hexachloro-1,3-butadiene	39.02	225	368108	9.9845	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050110.D Vial: 10
Acq On : 1 May 2011 8:56 pm Operator: DAH
Sample : 102 STD 1000,,,,0.01049;102 Inst : VMSC
Misc : 1,1,1000,1000, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:42 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050113.D Vial: 13
Acq On : 1 May 2011 11:52 pm Operator: DAH
Sample : EXT STD 20,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:46 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

DAH 5-2-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.07	81	318071	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.54	117	262367	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.90	83	143685	1.8298 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
65) Fluorobenzene	19.42	96	345580	1.6301 ppbV	0.00
Spiked Amount 2.000			Recovery	= 81.50%	
113) Toluene-d8	23.31	98	312144	2.1162 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
115) 1,4-Dichlorobutane	28.41	90	44741	2.0718 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	29.49	95	204586	2.1070 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.94	69	8280	0.1418 ppbV	S	90
8) Chlorodifluoromethane	6.02	51	21922	0.1716 ppbV	S	95
14) Acetaldehyde	8.29	44	3671m	0.1146 ppbV	S	
19) Methanol	8.94	31	3996m	0.2353 ppbV	S	
21) Neopentane	9.37	57	35310	0.1600 ppbV	S	93
22) Dichlorofluoromethane	10.60	67	14113	0.1164 ppbV	S	91
26) Vinyl bromide	10.85	106	4268	0.0803 ppbV	S	90
28) Ethanol	11.04	45	2650m	0.1157 ppbV	S	
29) Acetonitrile	11.21	41	4686m	0.0854 ppbV	S	
30) Acrolein	11.41	56	1489m	0.0671 ppbV	S	
34) Acetone	11.80	43	14265m	0.1525 ppbV	S	
35) 2-Propanol	12.46	45	10551m	0.1290 ppbV	S	
36) Acrylonitrile	12.58	52	2706	0.0735 ppbV	S	88
38) Diethyl ether	12.77	74	1781m	0.0682 ppbV	S	
45) Carbon Disulfide	13.39	76	14692	0.0891 ppbV	S	100
52) 1-Propanol	14.82	59	501m	0.0735 ppbV	S	
58) Vinyl acetate	15.49	43	13614	0.0830 ppbV	S	95
59) cis-4-Methyl-2-pentene	15.32	69	8542	0.0757 ppbV	S	87
60) trans-4-Methyl-2-pentene	15.45	69	10251	0.0825 ppbV	S	88
61) Butyraldehyde	15.61	72	717	0.0661 ppbV #	S	62
62) 2-Butanone	15.85	43	13802m	0.1092 ppbV	S	
70) 2-Ethyl-1-butene	16.70	69	4705	0.0704 ppbV	S	89
73) cis-3-Hexene	16.87	55	7301	0.0848 ppbV	S	88
75) 2-Methyl-2-pentene	17.05	41	10416	0.0912 ppbV #	S	72
76) cis-3-Methyl-2-pentene	17.17	69	6647	0.0839 ppbV #	S	75
83) Methylcyclopentene	18.87	67	11313	0.0995 ppbV	S	83
86) 1-Butanol	19.12	56	2790m	0.0943 ppbV	S	
90) Cyclohexene	20.01	67	8041	0.1015 ppbV	S	93
95) 1,4-Dioxane	20.64	88	3129	0.1484 ppbV	S	89
96) 1-Heptene	20.61	55	4676	0.1093 ppbV	S	88
99) trans-3-Heptene	21.01	41	9959	0.1263 ppbV #	S	22
101) cis-3-Heptene	21.16	41	10558	0.1323 ppbV	S	85
102) trans-2-Heptene	21.30	55	7999	0.1197 ppbV #	S	49
103) 2,4,4-Trimethyl-1-pentene	21.56	57	18365	0.1011 ppbV	S	83
105) Methylisobutylketone	22.06	43	15609	0.1314 ppbV	S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050113.D Vial: 13
Acq On : 1 May 2011 11:52 pm Operator: DAH
Sample : EXT STD 20,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:46 19111 Quant Results File: CA110302.RES

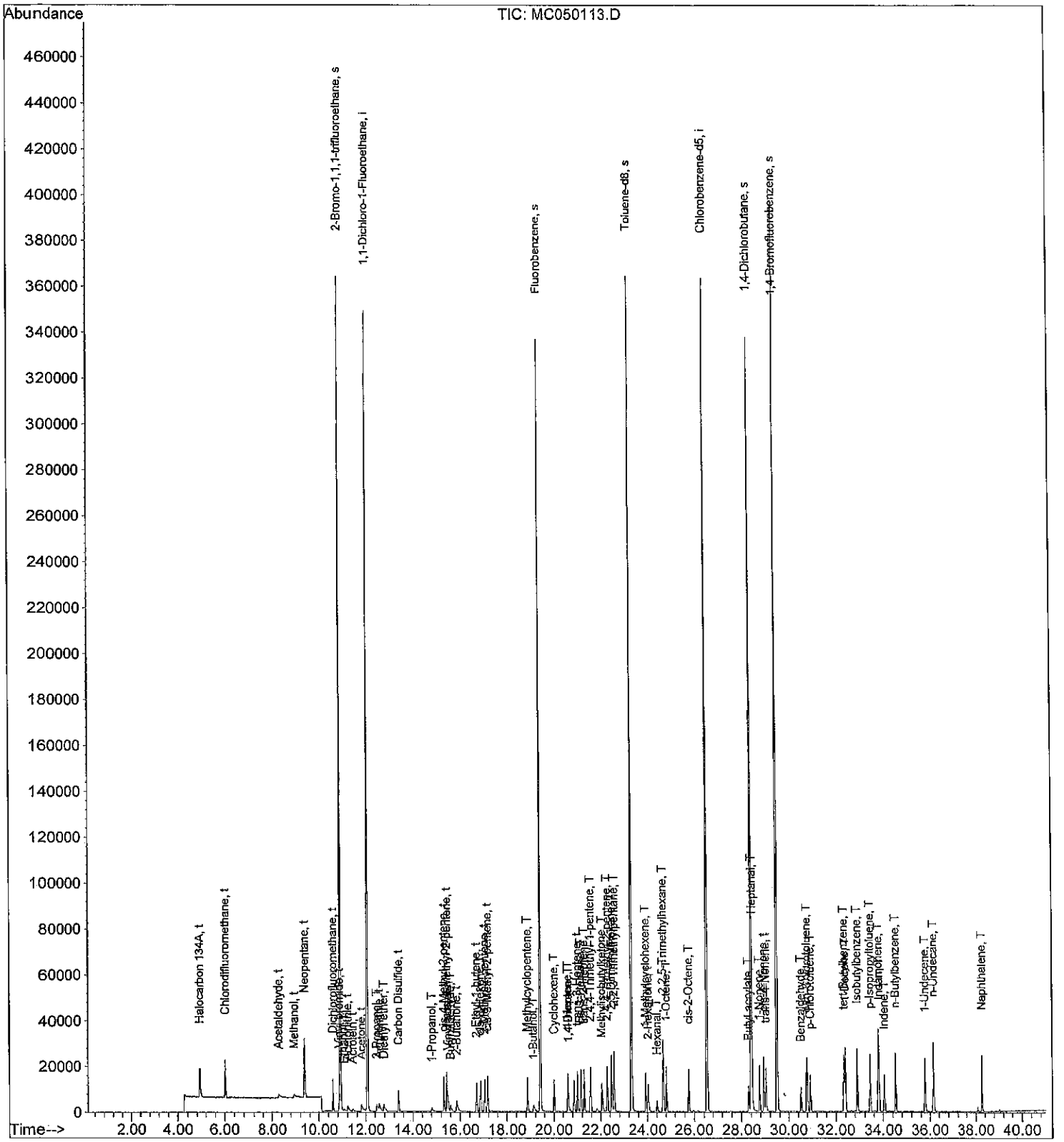
Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.29	55	12159	0.1047 ppbV	S	82
108) 2,5-Dimethylhexane	22.48	57	14225	0.1143 ppbV	S	75
109) 2,2,3-Trimethylpentane	22.58	57	26568	0.1226 ppbV	S	91
116) 2-Hexanone	24.04	43	15522	0.1344 ppbV	S	85
118) 1-Methylcyclohexene	23.93	81	7699	0.1019 ppbV	S	83
121) Hexanal	24.42	44	2216	0.1077 ppbV	S	85
123) 2,2,5-Trimethylhexane	24.67	57	31009	0.1257 ppbV	S	90
124) 1-Octene	24.82	55	5945	0.1100 ppbV	S	91
127) cis-2-Octene	25.78	55	8003	0.1106 ppbV	S	90
132) Butyl acrylate	28.30	55	11436	0.0974 ppbV	S	95
133) Heptanal	28.45	70	3245	0.1170 ppbV #	S	1
137) 1-Nonene	28.76	56	6116	0.1021 ppbV	S	89
138) cis-4-Nonene	28.94	55	14505	0.1345 ppbV	S	89
139) trans-4-Nonene	29.03	55	10523	0.1065 ppbV	S	91
143) Benzaldehyde	30.52	77	5981	0.1136 ppbV	S	87
145) o/m-Chlorotoluene	30.78	91	28886	0.2535 ppbV	S	86
146) p-Chlorotoluene	30.93	91	15003	0.1288 ppbV	S	87
154) tert-Butylbenzene	32.35	119	16925	0.1269 ppbV	S	88
155) 1-Decene	32.40	56	7623	0.1411 ppbV #	S	86
160) Isobutylbenzene	32.90	91	24921	0.1607 ppbV	S	88
162) p-Isopropyltoluene	33.44	119	21392	0.1331 ppbV	S	90
164) Limonene	33.80	68	8457	0.1378 ppbV	S	91
165) Indan	33.83	117	17139	0.1527 ppbV	S	92
166) Indene	34.05	115	13657	0.1336 ppbV	S	98
169) n-Butylbenzene	34.52	91	22482	0.1416 ppbV	S	96
170) 1-Undecene	35.79	55	6807	0.1139 ppbV	S	82
171) n-Undecane	36.14	57	15785	0.1096 ppbV	S	80
173) Naphthalene	38.27	128	21322	0.1195 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050113.D Vial: 13
Acq On : 1 May 2011 11:52 pm Operator: DAH
Sample : EXT STD 20,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,20, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:46 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050114.D Vial: 14
Acq On : 2 May 2011 12:49 am Operator: DAH
Sample : EXT STD 50,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,50, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:48 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.06	81	272650	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.53	117	221576	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.90	83	115090	1.7098 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.42	96	260241	1.4321 ppbV	0.00
Spiked Amount 2.000			Recovery	= 71.50%	
113) Toluene-d8	23.31	98	248005	1.9909 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
115) 1,4-Dichlorobutane	28.41	90	39081	2.1428 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.00%	
141) 1,4-Bromofluorobenzene	29.49	95	182778	2.2289 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.92	69	21094	0.4214 ppbV	S	78
8) Chlorodifluoromethane	6.02	51	56523	0.5161 ppbV	S	95
14) Acetaldehyde	8.19	44	8582m	0.3124 ppbV	S	
19) Methanol	8.85	31	8863m	0.6087 ppbV	S	
21) Neopentane	9.36	57	88574	0.4683 ppbV	S	92
22) Dichlorofluoromethane	10.60	67	36227	0.3487 ppbV	S	96
26) Vinyl bromide	10.85	106	10874	0.2386 ppbV	S	90
28) Ethanol	10.96	45	8057m	0.4105 ppbV	S	
29) Acetonitrile	11.14	41	13100m	0.2785 ppbV	S	
30) Acrolein	11.36	56	3694m	0.1942 ppbV	S	
34) Acetone	11.71	43	31582m	0.3938 ppbV	S	
35) 2-Propanol	12.39	45	30951m	0.4415 ppbV	S	
36) Acrylonitrile	12.55	52	7034	0.2229 ppbV	S	94
38) Diethyl ether	12.73	74	4925	0.2201 ppbV #	S	89
45) Carbon Disulfide	13.39	76	39735	0.2810 ppbV	S	100
52) 1-Propanol	14.77	59	2208	0.3781 ppbV #	S	79
58) Vinyl acetate	15.48	43	36304	0.2584 ppbV	S	95
59) cis-4-Methyl-2-pentene	15.31	69	21582	0.2231 ppbV	S	86
60) trans-4-Methyl-2-pentene	15.44	69	24583	0.2307 ppbV	S	88
61) Butyraldehyde	15.58	72	2028	0.2180 ppbV #	S	87
62) 2-Butanone	15.81	43	37125m	0.3428 ppbV	S	
70) 2-Ethyl-1-butene	16.70	69	11062	0.1930 ppbV	S	91
73) cis-3-Hexene	16.86	55	16976	0.2299 ppbV	S	82
75) 2-Methyl-2-pentene	17.04	41	23883	0.2439 ppbV #	S	73
76) cis-3-Methyl-2-pentene	17.17	69	15613	0.2299 ppbV #	S	75
83) Methylcyclopentene	18.86	67	28306	0.2948 ppbV	S	86
86) 1-Butanol	19.09	56	8946	0.3580 ppbV	S	89
90) Cyclohexene	20.00	67	19912	0.2976 ppbV	S	91
95) 1,4-Dioxane	20.60	88	8737	0.4906 ppbV #	S	64
96) 1-Heptene	20.61	55	11686	0.3235 ppbV	S	86
99) trans-3-Heptene	21.01	41	24480	0.3676 ppbV #	S	16
101) cis-3-Heptene	21.15	41	25215	0.3742 ppbV	S	89
102) trans-2-Heptene	21.30	55	19101	0.3384 ppbV #	S	49
103) 2,4,4-Trimethyl-1-pentene	21.56	57	45628	0.2975 ppbV	S	85
105) Methylisobutylketone	22.04	43	45998	0.4585 ppbV	S	92

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050114.D Vial: 14
Acq On : 2 May 2011 12:49 am Operator: DAH
Sample : EXT STD 50,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,50, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:48 19111 Quant Results File: CA110302.RES

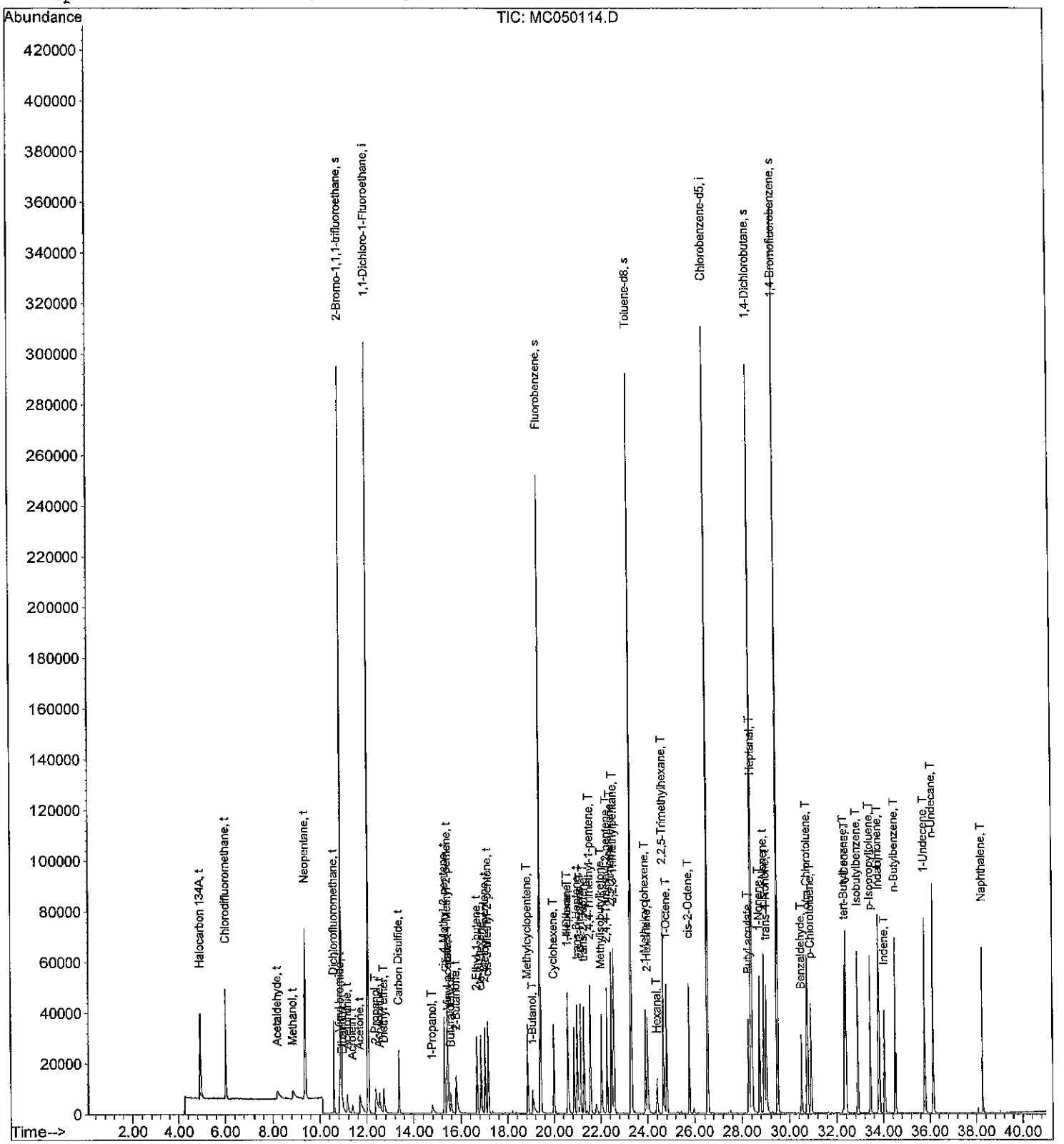
Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.28	55	30724	0.3132 ppbV	S	87
108) 2,5-Dimethylhexane	22.47	57	36036	0.3428 ppbV	S	80
109) 2,2,3-Trimethylpentane	22.57	57	66531	0.3635 ppbV	S	93
116) 2-Hexanone	24.01	43	44478	0.4559 ppbV	S	88
118) 1-Methylcyclohexene	23.93	81	19989	0.3132 ppbV	S	85
121) Hexanal	24.41	44	6102	0.3511 ppbV	S	91
123) 2,2,5-Trimethylhexane	24.67	57	80221	0.3852 ppbV	S	92
124) 1-Octene	24.82	55	16041	0.3514 ppbV	S	85
127) cis-2-Octene	25.77	55	21835	0.3573 ppbV	S	93
132) Butyl acrylate	28.30	55	35955	0.3627 ppbV	S	96
133) Heptanal	28.44	70	8241	0.3518 ppbV #	S	1
137) 1-Nonene	28.76	56	16059	0.3175 ppbV #	S	81
138) cis-4-Nonene	28.93	55	36933	0.4056 ppbV	S	90
139) trans-4-Nonene	29.03	55	30279	0.3627 ppbV	S	91
143) Benzaldehyde	30.52	77	16155	0.3633 ppbV	S	93
145) o/m-Chlorotoluene	30.78	91	75534	0.7850 ppbV	S	89
146) p-Chlorotoluene	30.93	91	38718	0.3935 ppbV	S	91
154) tert-Butylbenzene	32.34	119	39226	0.3481 ppbV	S	84
155) 1-Decene	32.40	56	19805	0.4340 ppbV #	S	83
160) Isobutylbenzene	32.91	91	55678	0.4251 ppbV	S	92
162) p-Isopropyltoluene	33.44	119	52790	0.3890 ppbV	S	92
164) Limonene	33.79	68	19890	0.3838 ppbV	S	91
165) Indan	33.82	117	38184	0.4027 ppbV	S	93
166) Indene	34.05	115	32283	0.3740 ppbV	S	95
169) n-Butylbenzene	34.52	91	62128	0.4634 ppbV	S	96
170) 1-Undecene	35.79	55	21575	0.4275 ppbV #	S	80
171) n-Undecane	36.14	57	46745	0.3842 ppbV	S	77
173) Naphthalene	38.27	128	56335	0.3739 ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050114.D Vial: 14
Acq On : 2 May 2011 12:49 am Operator: DAH
Sample : EXT STD 50,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,50, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:48 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050115.D Vial: 15
Acq On : 2 May 2011 1:47 am Operator: DAH
Sample : EXT STD 100,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:55 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

MA 5-2-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.06	81	287195	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.53	117	269295	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.89	83	128742	1.8158 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.00%	
65) Fluorobenzene	19.42	96	336380	1.7573 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.00%	
113) Toluene-d8	23.31	98	314961	2.0803 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
115) 1,4-Dichlorobutane	28.41	90	44853	2.0235 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	29.49	95	209544	2.1025 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.92	69	41344	0.7841 ppbV	S	78
8) Chlorodifluoromethane	6.02	51	110388	0.9569 ppbV	S	95
14) Acetaldehyde	8.10	44	20136m	0.6959 ppbV	S	
19) Methanol	8.81	31	11541m	0.7525 ppbV	S	
21) Neopentane	9.36	57	176141	0.8841 ppbV	S	93
22) Dichlorofluoromethane	10.59	67	93237	0.8520 ppbV	S	96
26) Vinyl bromide	10.85	106	29685	0.6185 ppbV	S	90
28) Ethanol	10.90	45	18366m	0.8883 ppbV	S	
29) Acetonitrile	11.10	41	34965m	0.7058 ppbV	S	
30) Acrolein	11.33	56	10830m	0.5404 ppbV	S	
34) Acetone	11.64	43	69903m	0.8275 ppbV	S	
35) 2-Propanol	12.33	45	61611m	0.8344 ppbV	S	
36) Acrylonitrile	12.52	52	20253	0.6093 ppbV	S	98
38) Diethyl ether	12.70	74	12385m	0.5256 ppbV	S	
45) Carbon Disulfide	13.39	76	101858	0.6839 ppbV	S	99
52) 1-Propanol	14.75	59	4443m	0.7224 ppbV	S	
58) Vinyl acetate	15.46	43	99823	0.6744 ppbV	S	92
59) cis-4-Methyl-2-pentene	15.31	69	63570	0.6238 ppbV	S	86
60) trans-4-Methyl-2-pentene	15.44	69	71321	0.6354 ppbV	S	88
61) Butyraldehyde	15.56	72	5240	0.5348 ppbV #	S	84
62) 2-Butanone	15.77	43	86286m	0.7564 ppbV	S	
70) 2-Ethyl-1-butene	16.69	69	34253	0.5673 ppbV	S	89
73) cis-3-Hexene	16.87	55	50813	0.6533 ppbV	S	89
75) 2-Methyl-2-pentene	17.03	41	70018	0.6789 ppbV #	S	74
76) cis-3-Methyl-2-pentene	17.17	69	45976	0.6426 ppbV #	S	78
83) Methylcyclopentene	18.86	67	85914	0.7361 ppbV	S	86
86) 1-Butanol	19.06	56	21298m	0.7013 ppbV	S	
90) Cyclohexene	20.00	67	56046	0.6891 ppbV	S	93
95) 1,4-Dioxane	20.59	88	12587	0.5815 ppbV #	S	50
96) 1-Heptene	20.61	55	31901	0.7266 ppbV	S	90
99) trans-3-Heptene	21.01	41	66486	0.8215 ppbV #	S	15
101) cis-3-Heptene	21.15	41	68724	0.8391 ppbV	S	90
102) trans-2-Heptene	21.29	55	51502	0.7508 ppbV #	S	49
103) 2,4,4-Trimethyl-1-pentene	21.55	57	130130	0.6981 ppbV	S	88
105) Methylisobutylketone	22.02	43	104034	0.8532 ppbV	S	91

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050115.D Vial: 15
Acq On : 2 May 2011 1:47 am Operator: DAH
Sample : EXT STD 100,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:55 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

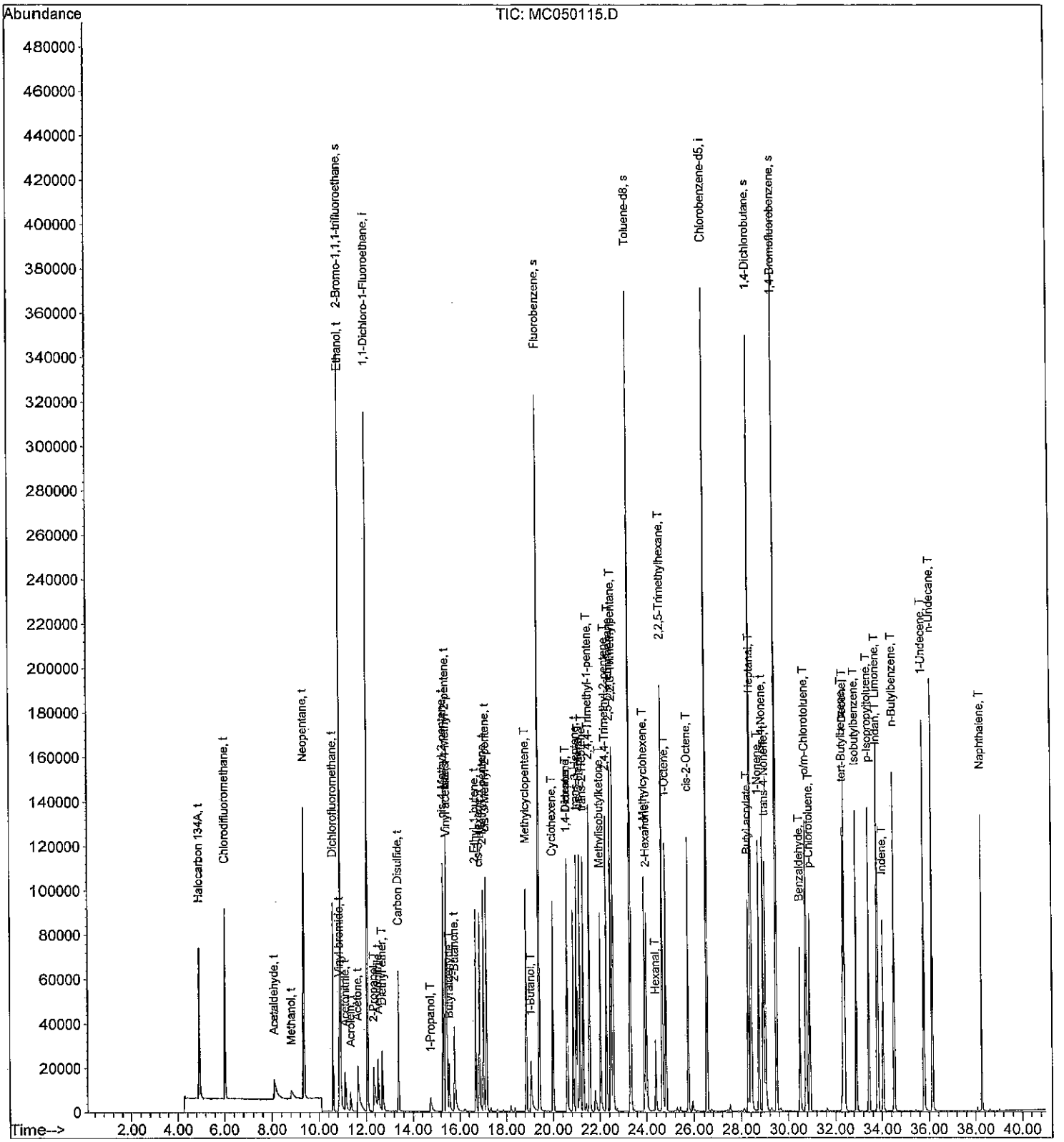
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.28	55	84535	0.7091 ppbV	S	85
108) 2,5-Dimethylhexane	22.47	57	90829	0.7109 ppbV	S	84
109) 2,2,3-Trimethylpentane	22.57	57	166350	0.7478 ppbV	S	93
116) 2-Hexanone	24.00	43	102278	0.8625 ppbV	S	90
118) 1-Methylcyclohexene	23.92	81	54146	0.6980 ppbV	S	90
121) Hexanal	24.40	44	14520	0.6874 ppbV	S	90
123) 2,2,5-Trimethylhexane	24.67	57	198253	0.7832 ppbV	S	94
124) 1-Octene	24.82	55	40156	0.7238 ppbV	S	88
127) cis-2-Octene	25.77	55	54066	0.7280 ppbV	S	92
132) Butyl acrylate	28.29	55	94577	0.7850 ppbV	S	94
133) Heptanal	28.44	70	19446	0.6831 ppbV #	S	27
137) 1-Nonene	28.76	56	37633	0.6123 ppbV	S	83
138) cis-4-Nonene	28.93	55	85145	0.7694 ppbV	S	89
139) trans-4-Nonene	29.02	55	68597	0.6761 ppbV	S	89
143) Benzaldehyde	30.51	77	38972	0.7211 ppbV	S	91
145) o/m-Chlorotoluene	30.77	91	159282	1.3620 ppbV	S	88
146) p-Chlorotoluene	30.93	91	79206	0.6624 ppbV	S	89
154) tert-Butylbenzene	32.34	119	89359	0.6525 ppbV	S	86
155) 1-Decene	32.40	56	41817	0.7539 ppbV	S	85
160) Isobutylbenzene	32.91	91	121568	0.7637 ppbV	S	92
162) p-Isopropyltoluene	33.44	119	118005	0.7155 ppbV	S	93
164) Limonene	33.79	68	43252	0.6867 ppbV	S	90
165) Indan	33.82	117	78303	0.6795 ppbV	S	96
166) Indene	34.05	115	68285	0.6509 ppbV	S	99
169) n-Butylbenzene	34.52	91	138120	0.8477 ppbV	S	98
170) 1-Undecene	35.79	55	50337	0.8207 ppbV	S	82
171) n-Undecane	36.14	57	105449	0.7132 ppbV	S	78
173) Naphthalene	38.27	128	112208	0.6127 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050115.D Vial: 15
Acq On : 2 May 2011 1:47 am Operator: DAH
Sample : EXT STD 100,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:55 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050116.D Vial: 16
Acq On : 2 May 2011 2:46 am Operator: DAH
Sample : EXT STD 250,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,250, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:58 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

MAK 5-2-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.06	81	285017	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.53	117	264570	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.89	83	124435	1.7684 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
65) Fluorobenzene	19.42	96	312032	1.6426 ppbV	0.00
Spiked Amount 2.000			Recovery	= 82.00%	
113) Toluene-d8	23.31	98	298417	2.0062 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
115) 1,4-Dichlorobutane	28.41	90	44127	2.0263 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
141) 1,4-Bromofluorobenzene	29.49	95	210129	2.1460 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.91	69	110960	2.1206 ppbV	S	81
8) Chlorodifluoromethane	6.01	51	298234	2.6051 ppbV	S	95
14) Acetaldehyde	8.02	44	54693m	1.9046 ppbV	S	
19) Methanol	8.77	31	19801m	1.3010 ppbV	S	
21) Neopentane	9.35	57	469108	2.3725 ppbV	S	92
22) Dichlorofluoromethane	10.59	67	271021	2.4955 ppbV	S	95
26) Vinyl bromide	10.84	106	87975	1.8469 ppbV	S	92
28) Ethanol	10.89	45	29471m	1.4364 ppbV	S	
29) Acetonitrile	11.05	41	99675m	2.0274 ppbV	S	
30) Acrolein	11.29	56	34692	1.7443 ppbV	S	97
34) Acetone	11.58	43	197835m	2.3599 ppbV	S	
35) 2-Propanol	12.29	45	136742m	1.8660 ppbV	S	
36) Acrylonitrile	12.50	52	64719m	1.9619 ppbV	S	
38) Diethyl ether	12.67	74	40350	1.7254 ppbV	S	89
45) Carbon Disulfide	13.38	76	282475	1.9112 ppbV	S	100
52) 1-Propanol	14.72	59	9607m	1.5739 ppbV	S	
58) Vinyl acetate	15.46	43	331773	2.2586 ppbV	S	93
59) cis-4-Methyl-2-pentene	15.31	69	198472	1.9625 ppbV	S	87
60) trans-4-Methyl-2-pentene	15.43	69	220391	1.9783 ppbV	S	88
61) Butyraldehyde	15.54	72	16157	1.6617 ppbV #	S	76
62) 2-Butanone	15.74	43	258591m	2.2841 ppbV	S	
70) 2-Ethyl-1-butene	16.69	69	109431	1.8262 ppbV	S	91
73) cis-3-Hexene	16.86	55	159571	2.0671 ppbV	S	87
75) 2-Methyl-2-pentene	17.03	41	218702	2.1367 ppbV #	S	74
76) cis-3-Methyl-2-pentene	17.16	69	141091	1.9870 ppbV #	S	71
83) Methylcyclopentene	18.86	67	274180	2.3911 ppbV	S	87
86) 1-Butanol	19.05	56	50381m	1.6887 ppbV	S	
90) Cyclohexene	20.00	67	174561	2.1846 ppbV	S	92
95) 1,4-Dioxane	20.58	88	20620	0.9696 ppbV #	S	59
96) 1-Heptene	20.60	55	101184	2.3459 ppbV	S	88
99) trans-3-Heptene	21.01	41	207631	2.6112 ppbV #	S	16
101) cis-3-Heptene	21.15	41	213320	2.6512 ppbV	S	89
102) trans-2-Heptene	21.30	55	162691	2.4140 ppbV #	S	49
103) 2,4,4-Trimethyl-1-pentene	21.55	57	416106	2.2720 ppbV	S	87
105) Methylisobutylketone	22.01	43	307981	2.5710 ppbV	S	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050116.D Vial: 16
Acq On : 2 May 2011 2:46 am Operator: DAH
Sample : EXT STD 250,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,250, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:58 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

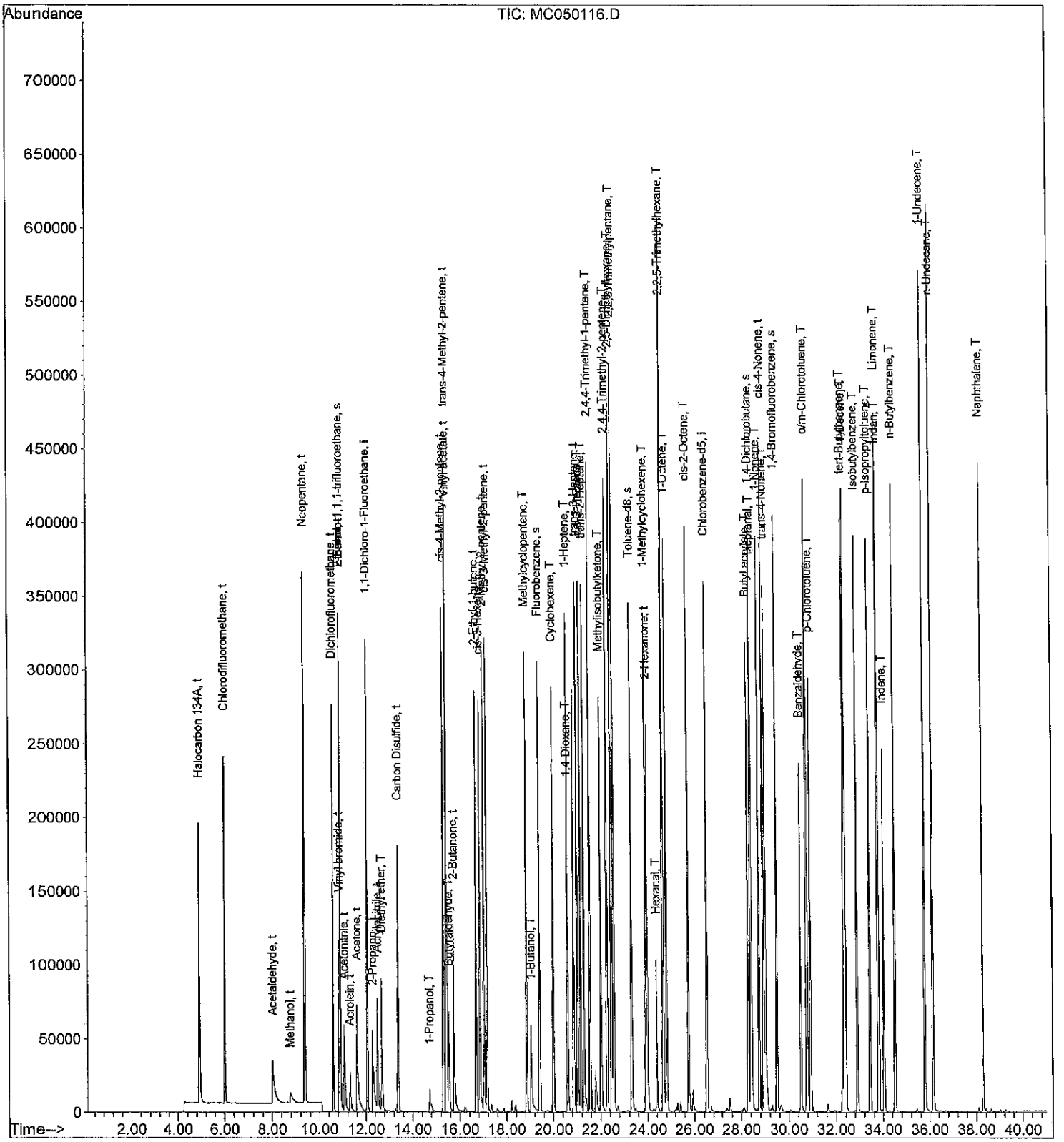
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.28	55	275456	2.3517	ppbV	S	88
108) 2,5-Dimethylhexane	22.47	57	286919	2.2859	ppbV	S	84
109) 2,2,3-Trimethylpentane	22.57	57	527719	2.4147	ppbV	S	94
116) 2-Hexanone	24.00	43	289443	2.4845	ppbV	S	92
118) 1-Methylcyclohexene	23.92	81	176367	2.3140	ppbV	S	88
121) Hexanal	24.39	44	44781	2.1579	ppbV	S	95
123) 2,2,5-Trimethylhexane	24.67	57	629089	2.5296	ppbV	S	94
124) 1-Octene	24.82	55	125997	2.3115	ppbV	S	90
127) cis-2-Octene	25.77	55	181072	2.4815	ppbV	S	93
132) Butyl acrylate	28.29	55	322275	2.7228	ppbV	S	95
133) Heptanal	28.44	70	61131	2.1857	ppbV #	S	83
137) 1-Nonene	28.76	56	124609	2.0636	ppbV	S	85
138) cis-4-Nonene	28.94	55	278799	2.5644	ppbV	S	91
139) trans-4-Nonene	29.03	55	220841	2.2154	ppbV	S	90
143) Benzaldehyde	30.51	77	122839	2.3136	ppbV	S	92
145) o/m-Chlorotoluene	30.78	91	528109	4.5963	ppbV	S	90
146) p-Chlorotoluene	30.93	91	263205	2.2405	ppbV	S	90
154) tert-Butylbenzene	32.34	119	287019	2.1334	ppbV	S	86
155) 1-Decene	32.40	56	119003	2.1838	ppbV #	S	85
160) Isobutylbenzene	32.91	91	354111	2.2644	ppbV	S	93
162) p-Isopropyltoluene	33.44	119	342467	2.1137	ppbV	S	93
164) Limonene	33.80	68	126812	2.0493	ppbV	S	91
165) Indan	33.82	117	232514	2.0539	ppbV	S	96
166) Indene	34.05	115	200375	1.9443	ppbV	S	99
169) n-Butylbenzene	34.52	91	387018	2.4177	ppbV	S	99
170) 1-Undecene	35.79	55	166930	2.7703	ppbV	S	83
171) n-Undecane	36.14	57	336145	2.3141	ppbV	S	80
173) Naphthalene	38.27	128	378529	2.1039	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050116.D Vial: 16
Acq On : 2 May 2011 2:46 am Operator: DAH
Sample : EXT STD 250,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,250, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:58 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050117.D Vial: 17
Acq On : 2 May 2011 3:46 am Operator: DAH
Sample : EXT STD 500,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 14:00 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

MM 5/2/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.05	81	316011	2.0000 ppbV	-0.01
82) Chlorobenzene-d5	26.54	117	283160	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.88	83	139379	1.7865 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 89.50%	
65) Fluorobenzene	19.41	96	344434	1.6353 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 82.00%	
113) Toluene-d8	23.31	98	327175	2.0552 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
115) 1,4-Dichlorobutane	28.41	90	47616	2.0430 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	29.49	95	224838	2.1455 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.90	69	232269	4.0035 ppbV	S	81
8) Chlorodifluoromethane	6.00	51	617387	4.8640 ppbV	S	94
14) Acetaldehyde	7.97	44	120602m	3.7879 ppbV	S	
19) Methanol	8.72	31	38681m	2.2922 ppbV	S	
21) Neopentane	9.35	57	981329	4.4764 ppbV	S	92
22) Dichlorofluoromethane	10.57	67	584263	4.8522 ppbV	S	96
26) Vinyl bromide	10.83	106	194294	3.6789 ppbV	S	94
28) Ethanol	10.84	45	58207m	2.5587 ppbV	S	
29) Acetonitrile	11.02	41	224683m	4.1218 ppbV	S	
30) Acrolein	11.26	56	84710	3.8415 ppbV	S	96
34) Acetone	11.54	43	471778m	5.0757 ppbV	S	
35) 2-Propanol	12.26	45	321225m	3.9536 ppbV	S	
36) Acrylonitrile	12.48	52	153613	4.1999 ppbV	S	97
38) Diethyl ether	12.65	74	98779	3.8095 ppbV	S	90
45) Carbon Disulfide	13.37	76	598202	3.6505 ppbV	S	100
52) 1-Propanol	14.69	59	23238m	3.4337 ppbV	S	
58) Vinyl acetate	15.44	43	837505	5.1423 ppbV	S	92
59) cis-4-Methyl-2-pentene	15.29	69	458793	4.0916 ppbV	S	87
60) trans-4-Methyl-2-pentene	15.43	69	514851	4.1683 ppbV	S	88
61) Butyraldehyde	15.52	72	41628	3.8613 ppbV #	S	83
62) 2-Butanone	15.72	43	635955m	5.0663 ppbV	S	
70) 2-Ethyl-1-butene	16.68	69	258924	3.8971 ppbV	S	94
73) cis-3-Hexene	16.85	55	373626	4.3654 ppbV	S	89
75) 2-Methyl-2-pentene	17.03	41	515302	4.5408 ppbV #	S	73
76) cis-3-Methyl-2-pentene	17.16	69	330933	4.2035 ppbV #	S	74
83) Methylcyclopentene	18.85	67	646297	5.2663 ppbV	S	87
86) 1-Butanol	19.03	56	105934m	3.3176 ppbV	S	
90) Cyclohexene	20.00	67	403320	4.7162 ppbV	S	94
95) 1,4-Dioxane	20.56	88	50309	2.2104 ppbV	S	93
96) 1-Heptene	20.60	55	237588	5.1467 ppbV	S	89
99) trans-3-Heptene	21.00	41	492440	5.7864 ppbV #	S	17
101) cis-3-Heptene	21.15	41	503975	5.8523 ppbV	S	89
102) trans-2-Heptene	21.30	55	389471	5.3995 ppbV #	S	49
103) 2,4,4-Trimethyl-1-pentene	21.55	57	1004152	5.1228 ppbV	S	88
105) Methylisobutylketone	22.01	43	800761	6.2458 ppbV	S	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050117.D Vial: 17
Acq On : 2 May 2011 3:46 am Operator: DAH
Sample : EXT STD 500,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 14:00 19111 Quant Results File: CA110302.RES

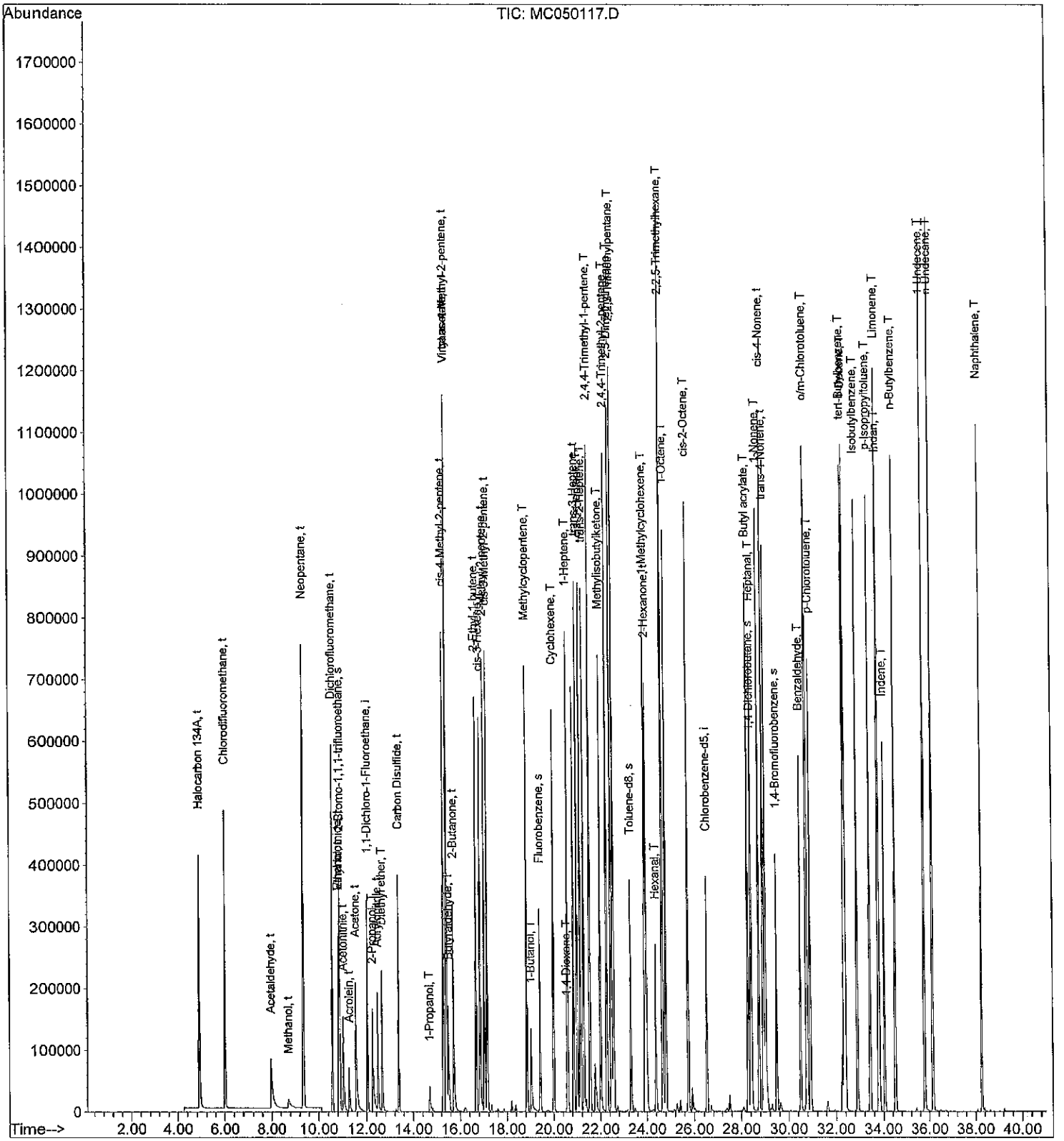
Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107)	2,4,4-Trimethyl-2-pentene	22.28	55	686142	5.4734	ppbV	S	89
108)	2,5-Dimethylhexane	22.47	57	689803	5.1349	ppbV	S	85
109)	2,2,3-Trimethylpentane	22.57	57	1247202	5.3321	ppbV	S	95
116)	2-Hexanone	23.99	43	768050	6.1599	ppbV	S	91
118)	1-Methylcyclohexene	23.92	81	424984	5.2100	ppbV	S	89
121)	Hexanal	24.38	44	118940	5.3551	ppbV	S	93
123)	2,2,5-Trimethylhexane	24.67	57	1532745	5.7586	ppbV	S	94
124)	1-Octene	24.82	55	317100	5.4356	ppbV	S	90
127)	cis-2-Octene	25.77	55	450897	5.7737	ppbV	S	93
132)	Butyl acrylate	28.29	55	881316	6.9571	ppbV	S	95
133)	Heptanal	28.44	70	157691	5.2679	ppbV	S	89
137)	1-Nonene	28.76	56	320868	4.9648	ppbV	S	88
138)	cis-4-Nonene	28.94	55	719047	6.1797	ppbV	S	91
139)	trans-4-Nonene	29.03	55	557796	5.2284	ppbV	S	91
143)	Benzaldehyde	30.52	77	299221	5.2657	ppbV	S	95
145)	o/m-Chlorotoluene	30.78	91	1342244	10.9151	ppbV	S	91
146)	p-Chlorotoluene	30.93	91	662498	5.2692	ppbV	S	92
154)	tert-Butylbenzene	32.34	119	772007	5.3616	ppbV	S	86
155)	1-Decene	32.40	56	298892	5.1249	ppbV #	S	85
160)	Isobutylbenzene	32.91	91	913397	5.4573	ppbV	S	94
162)	p-Isopropyltoluene	33.44	119	886231	5.1107	ppbV	S	94
164)	Limonene	33.80	68	331043	4.9985	ppbV	S	93
165)	Indan	33.83	117	588739	4.8591	ppbV	S	97
166)	Indene	34.05	115	507663	4.6025	ppbV	S	98
169)	n-Butylbenzene	34.52	91	954037	5.5685	ppbV	S	98
170)	1-Undecene	35.79	55	421126	6.5300	ppbV	S	84
171)	n-Undecane	36.15	57	827233	5.3210	ppbV	S	85
173)	Naphthalene	38.27	128	961646	4.9940	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050117.D Vial: 17
Acq On : 2 May 2011 3:46 am Operator: DAH
Sample : EXT STD 500,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 14:00 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050118.D Vial: 18
Acq On : 2 May 2011 4:49 am Operator: DAH
Sample : EXT STD 750,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,750, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:10 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

MW 5-2-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.04	81	317235	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.54	117	298233	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.87	83	138394	1.7671 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 88.50%	
65) Fluorobenzene	19.41	96	362207	1.7131 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.50%	
113) Toluene-d8	23.31	98	344807	2.0565 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
115) 1,4-Dichlorobutane	28.41	90	49490	2.0161 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	29.50	95	232285	2.1045 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.90	69	380537	6.5339 ppbV	S	79
8) Chlorodifluoromethane	6.00	51	1019264	7.9991 ppbV	S	94
14) Acetaldehyde	7.94	44	202506m	6.3359 ppbV	S	
19) Methanol	8.69	31	55960m	3.3033 ppbV	S	
21) Neopentane	9.34	57	1576671	7.1643 ppbV	S	92
22) Dichlorofluoromethane	10.56	67	958596	7.9302 ppbV	S	96
26) Vinyl bromide	10.82	106	336486	6.3466 ppbV	S	94
28) Ethanol	10.82	45	71655m	3.1377 ppbV	S	
29) Acetonitrile	11.00	41	375107m	6.8547 ppbV	S	
30) Acrolein	11.24	56	147103	6.6452 ppbV	S	98
34) Acetone	11.51	43	794465m	8.5144 ppbV	S	
35) 2-Propanol	12.25	45	375865m	4.6082 ppbV	S	
36) Acrylonitrile	12.46	52	268061	7.3006 ppbV	S	97
38) Diethyl ether	12.64	74	171615	6.5929 ppbV	S	90
45) Carbon Disulfide	13.37	76	990114	6.0188 ppbV	S	100
52) 1-Propanol	14.68	59	26720m	3.9330 ppbV	S	
58) Vinyl acetate	15.43	43	1480781	9.0570 ppbV	S	91
59) cis-4-Methyl-2-pentene	15.29	69	780138	6.9305 ppbV	S	88
60) trans-4-Methyl-2-pentene	15.42	69	883965	7.1290 ppbV	S	88
61) Butyraldehyde	15.51	72	72985	6.7439 ppbV #	S	83
62) 2-Butanone	15.70	43	1085188m	8.6117 ppbV	S	
70) 2-Ethyl-1-butene	16.67	69	449513	6.7396 ppbV	S	92
73) cis-3-Hexene	16.84	55	654546	7.6181 ppbV	S	89
75) 2-Methyl-2-pentene	17.02	41	894583	7.8525 ppbV #	S	74
76) cis-3-Methyl-2-pentene	17.15	69	571001	7.2248 ppbV #	S	76
83) Methylcyclopentene	18.85	67	1127970	8.7266 ppbV	S	88
86) 1-Butanol	19.03	56	111414m	3.3128 ppbV	S	
90) Cyclohexene	19.99	67	693137	7.6955 ppbV	S	93
95) 1,4-Dioxane	20.56	88	72187	3.0114 ppbV	S	93
96) 1-Heptene	20.60	55	418290	8.6032 ppbV	S	90
99) trans-3-Heptene	21.01	41	858886	9.5822 ppbV #	S	17
101) cis-3-Heptene	21.15	41	881102	9.7144 ppbV	S	90
102) trans-2-Heptene	21.29	55	684671	9.0123 ppbV #	S	48
103) 2,4,4-Trimethyl-1-pentene	21.55	57	1746614	8.4602 ppbV	S	88
105) Methylisobutylketone	22.00	43	1372116	10.1614 ppbV	S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050118.D Vial: 18
Acq On : 2 May 2011 4:49 am Operator: DAH
Sample : EXT STD 750,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,750, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:10 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

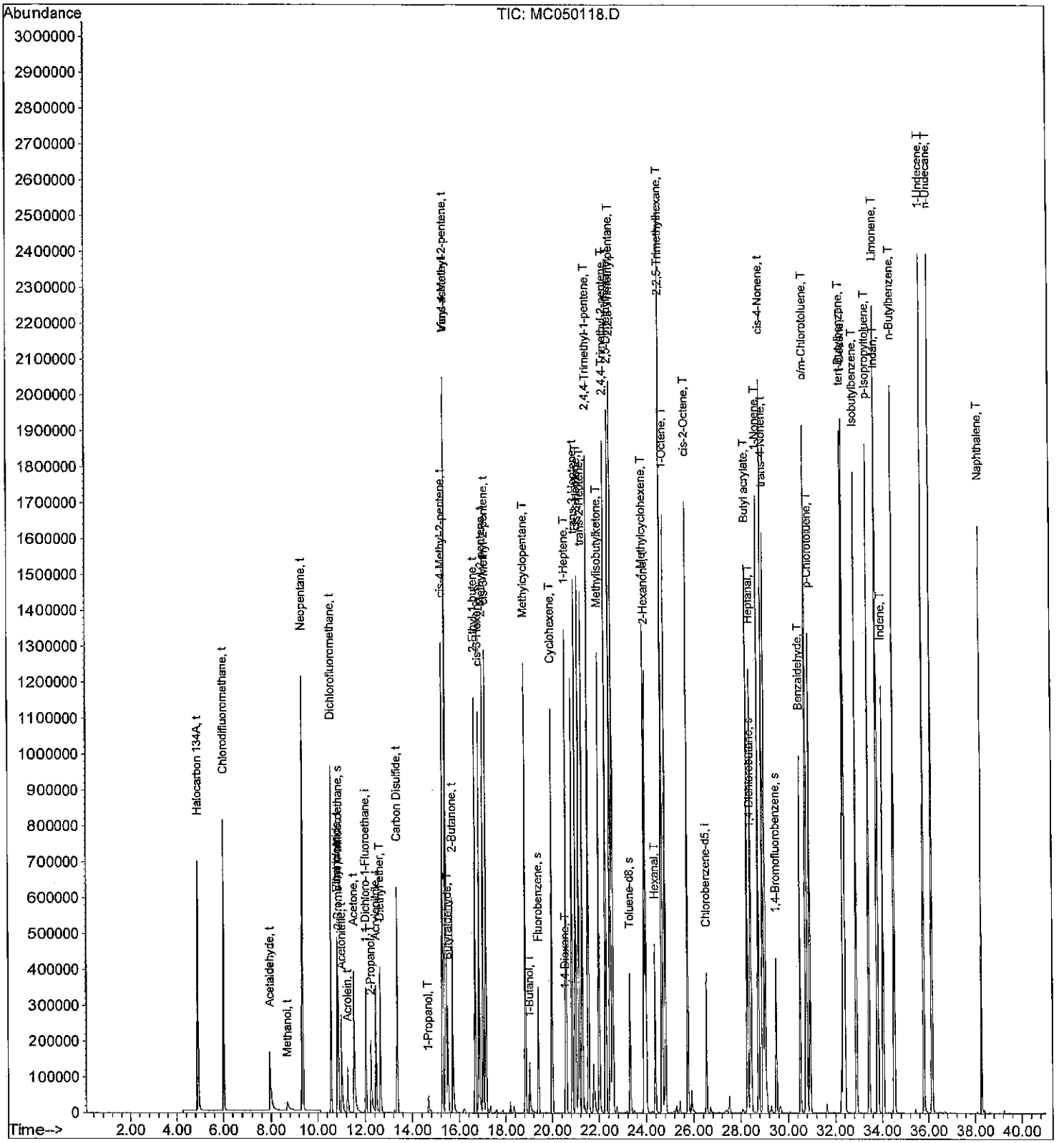
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
107) 2,4,4-Trimethyl-2-pentene	22.28	55	1208188	9.1507	ppbV	S	90
108) 2,5-Dimethylhexane	22.47	57	1198449	8.4704	ppbV	S	86
109) 2,2,3-Trimethylpentane	22.57	57	2140885	8.6903	ppbV	S	94
116) 2-Hexanone	23.99	43	1343940	10.2339	ppbV	S	92
118) 1-Methylcyclohexene	23.92	81	739270	8.6048	ppbV	S	90
121) Hexanal	24.38	44	210349	8.9920	ppbV	S	93
123) 2,2,5-Trimethylhexane	24.67	57	2647267	9.4432	ppbV	S	95
124) 1-Octene	24.82	55	561783	9.1431	ppbV	S	91
127) cis-2-Octene	25.77	55	794237	9.6562	ppbV	S	93
132) Butyl acrylate	28.29	55	1584122	11.8730	ppbV	S	96
133) Heptanal	28.44	70	277375	8.7978	ppbV	S	85
137) 1-Nonene	28.76	56	571893	8.4017	ppbV	S	88
138) cis-4-Nonene	28.94	55	1286535	10.4980	ppbV	S	92
139) trans-4-Nonene	29.03	55	1001728	8.9149	ppbV	S	92
143) Benzaldehyde	30.52	77	519801	8.6852	ppbV	S	96
145) o/m-Chlorotoluene	30.78	91	2401064	18.5386	ppbV	S	91
146) p-Chlorotoluene	30.93	91	1203911	9.0914	ppbV	S	93
154) tert-Butylbenzene	32.35	119	1417615	9.3477	ppbV	S	89
155) 1-Decene	32.41	56	549083	8.9389	ppbV	S	87
160) Isobutylbenzene	32.91	91	1665584	9.4484	ppbV	S	95
162) p-Isopropyltoluene	33.45	119	1696949	9.2913	ppbV	S	94
164) Limonene	33.80	68	618405	8.8656	ppbV	S	92
165) Indan	33.83	117	1107396	8.6779	ppbV	S	97
166) Indene	34.05	115	1000432	8.6116	ppbV	S	97
169) n-Butylbenzene	34.53	91	1855904	10.2851	ppbV	S	99
170) 1-Undecene	35.79	55	708061	10.4243	ppbV	S	85
171) n-Undecane	36.15	57	1355549	8.2785	ppbV	S	85
173) Naphthalene	38.27	128	1429698	7.0495	ppbV	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050118.D Vial: 18
Acq On : 2 May 2011 4:49 am Operator: DAH
Sample : EXT STD 750,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,750, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 13:10 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050119.D Vial: 19
Acq On : 2 May 2011 5:54 am Operator: DAH
Sample : EXT STD 1000,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,1000, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 14:06 19111 Quant Results File: CA110302.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

DM 5/2/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.04	81	354987	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.54	117	274163	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.88	83	136769	1.5606 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 78.00%	
65) Fluorobenzene	19.41	96	321880	1.3604 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 68.00%	
113) Toluene-d8	23.31	98	310415	2.0139 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
115) 1,4-Dichlorobutane	28.42	90	46652	2.0673 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	29.49	95	216531	2.1340 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds					Qvalue
6) Halocarbon 134A	4.90	69	546615	8.3873 ppbV # S	75
8) Chlorodifluoromethane	6.00	51	1465970	10.2813 ppbV S	94
14) Acetaldehyde	7.94	44	291538m	8.1514 ppbV S	
19) Methanol	8.83	31	57496m	3.0331 ppbV S	
21) Neopentane	9.34	57	2296960	9.3273 ppbV S	93
22) Dichlorofluoromethane	10.57	67	1350574	9.9848 ppbV S	97
26) Vinyl bromide	10.82	106	498471	8.4020 ppbV S	95
28) Ethanol	10.93	45	76549m	2.9955 ppbV S	
29) Acetonitrile	11.02	41	518705m	8.4708 ppbV S	
30) Acrolein	11.24	56	217973	8.7995 ppbV S	97
34) Acetone	11.52	43	1208434m	11.5736 ppbV S	
35) 2-Propanol	12.31	45	440479m	4.8261 ppbV S	
36) Acrylonitrile	12.46	52	397740	9.6804 ppbV S	96
38) Diethyl ether	12.64	74	250133	8.5874 ppbV S	90
45) Carbon Disulfide	13.36	76	1402028	7.6164 ppbV S	100
52) 1-Propanol	14.70	59	27617	3.6327 ppbV S	84
58) Vinyl acetate	15.43	43	2130098	11.6429 ppbV S	94
59) cis-4-Methyl-2-pentene	15.28	69	1084007	8.6058 ppbV S	88
60) trans-4-Methyl-2-pentene	15.42	69	1227377	8.8459 ppbV S	89
61) Butyraldehyde	15.51	72	105431	8.7059 ppbV # S	82
62) 2-Butanone	15.71	43	1553539m	11.0173 ppbV S	
70) 2-Ethyl-1-butene	16.67	69	624209	8.3635 ppbV S	90
73) cis-3-Hexene	16.84	55	922071	9.5905 ppbV S	89
75) 2-Methyl-2-pentene	17.02	41	1250255	9.8075 ppbV # S	74
76) cis-3-Methyl-2-pentene	17.15	69	785655	8.8837 ppbV # S	73
83) Methylcyclopentene	18.85	67	1556719	13.1010 ppbV S	87
86) 1-Butanol	19.04	56	110754m	3.5823 ppbV S	
90) Cyclohexene	19.99	67	938474	11.3341 ppbV S	93
95) 1,4-Dioxane	20.56	88	76475	3.4704 ppbV S	89
96) 1-Heptene	20.60	55	585141	13.0915 ppbV S	90
99) trans-3-Heptene	21.00	41	1194717	14.4991 ppbV # S	18
101) cis-3-Heptene	21.14	41	1226737	14.7126 ppbV S	90
102) trans-2-Heptene	21.30	55	966874	13.8442 ppbV # S	48
103) 2,4,4-Trimethyl-1-pentene	21.55	57	2410907	12.7032 ppbV S	87
105) Methylisobutylketone	22.00	43	1913905	15.4180 ppbV S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050119.D Vial: 19
Acq On : 2 May 2011 5:54 am Operator: DAH
Sample : EXT STD 1000,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,1000, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 14:06 19111 Quant Results File: CA110302.RES

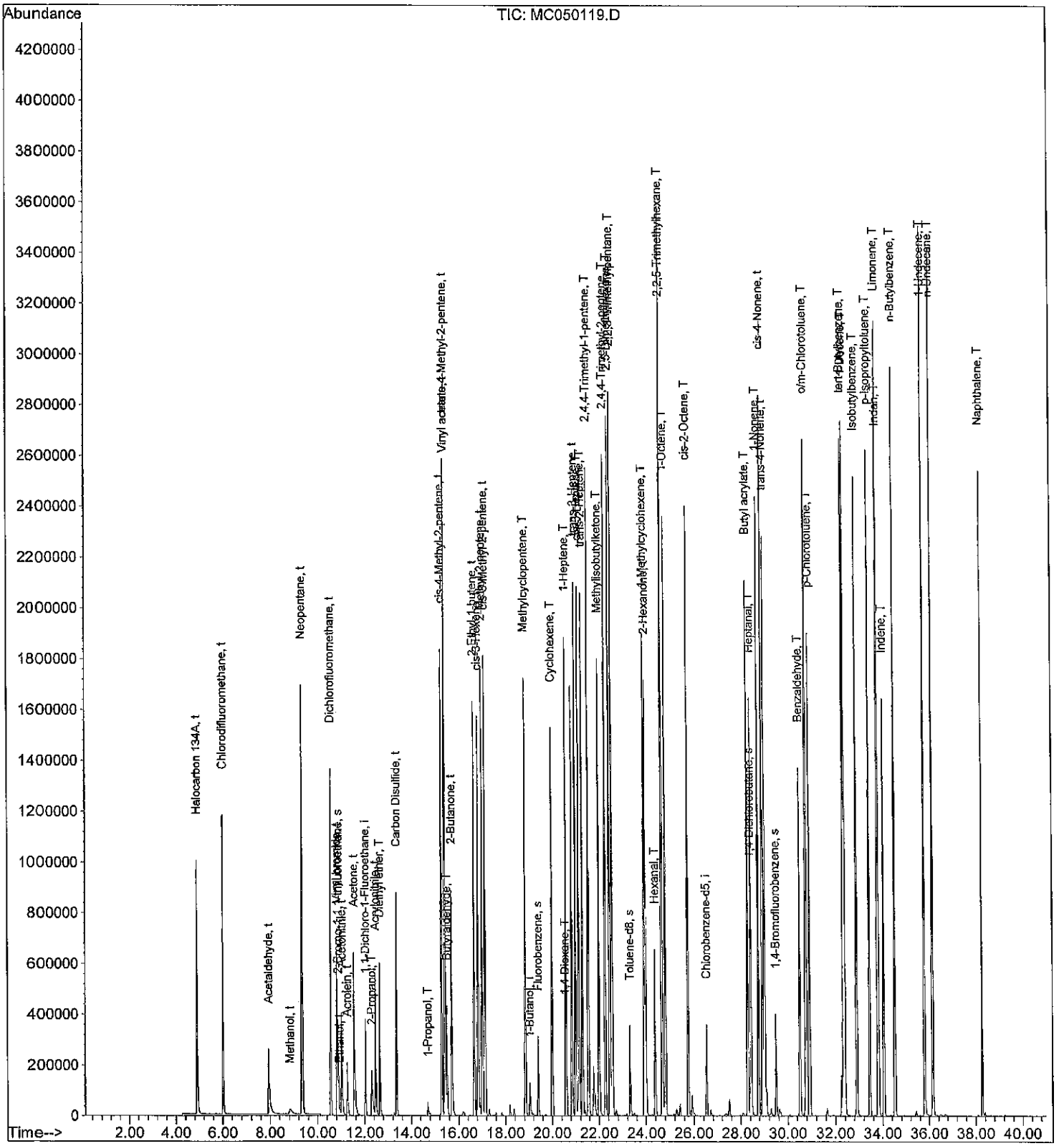
Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration
DataAcq Meth : CA110302

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.28	55	1685112	13.8833	ppbV	S	91
108) 2,5-Dimethylhexane	22.47	57	1666871	12.8155	ppbV	S	87
109) 2,2,3-Trimethylpentane	22.57	57	2957763	13.0602	ppbV	S	95
116) 2-Hexanone	23.99	43	1856458	15.3778	ppbV	S	93
118) 1-Methylcyclohexene	23.92	81	1024465	12.9712	ppbV	S	90
121) Hexanal	24.39	44	294936	13.7148	ppbV	S	94
123) 2,2,5-Trimethylhexane	24.67	57	3677949	14.2717	ppbV	S	95
124) 1-Octene	24.82	55	799847	14.1605	ppbV	S	92
127) cis-2-Octene	25.78	55	1125750	14.8883	ppbV	S	94
132) Butyl acrylate	28.30	55	2203619	17.9661	ppbV	S	96
133) Heptanal	28.45	70	378532	13.0604	ppbV #	S	82
137) 1-Nonene	28.76	56	816680	13.0513	ppbV	S	88
138) cis-4-Nonene	28.94	55	1841104	16.3421	ppbV	S	93
139) trans-4-Nonene	29.04	55	1420443	13.7511	ppbV	S	92
143) Benzaldehyde	30.52	77	708599	12.8793	ppbV	S	95
145) o/m-Chlorotoluene	30.79	91	3391952	28.4885	ppbV	S	91
146) p-Chlorotoluene	30.94	91	1706911	14.0215	ppbV	S	93
154) tert-Butylbenzene	32.35	119	2008486	14.4066	ppbV	S	88
155) 1-Decene	32.41	56	781237	13.8349	ppbV	S	87
160) Isobutylbenzene	32.91	91	2335359	14.4109	ppbV	S	95
162) p-Isopropyltoluene	33.45	119	2377921	14.1630	ppbV	S	94
164) Limonene	33.80	68	858455	13.3875	ppbV	S	93
165) Indan	33.83	117	1539221	13.1208	ppbV	S	98
166) Indene	34.06	115	1374800	12.8730	ppbV	S	97
169) n-Butylbenzene	34.53	91	2641518	15.9240	ppbV	S	99
170) 1-Undecene	35.79	55	1052263	16.8519	ppbV	S	87
171) n-Undecane	36.16	57	1992456	13.2365	ppbV	S	87
173) Naphthalene	38.27	128	2262214	12.1337	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110501\MC050119.D Vial: 19
Acq On : 2 May 2011 5:54 am Operator: DAH
Sample : EXT STD 1000,,,,0.01040;EXT Inst : VMSC
Misc : 1,1,1000,1000, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 14:06 19111 Quant Results File: CA110302.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110302.M (RTE Integrator)
Title :
Last Update : Sat Mar 12 16:04:42 2011
Response via : Initial Calibration



Data by Analytical Batch (s)

Austin Laboratory

INSTRUMENT VMSC ANALYST / DATE: KW 5/10/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: HE0095

DAILY CHECK —	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL —	FILAMENT CHANGE NO	OTHER —	
NO MAINTENANCE REQUIRED: —			RETURNED TO SERVICE: —	

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, condition of septa, etc. Glass insert, septa, column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:
Tune File: C100904.u Elect Mult. 1412 volts Sampling Rate 1 6 Scan Range 1 23.0-27.0
Sampling Rate 2 4 Scan Range 2 29.0-175 Sampling Rate 3 3 Scan Range 3 33-275
Tuning Performance (circle one): BFB Autotune Other Interface (circle one): Direct Jet Separator Other

GC PROGRAM:
GC Meth. CA110501.u Initial Temp. -50 °C Final Hold 0.0 min Inj. Temp. 100 °C Init.Hold 3.0 min
Carrier Gas: Helium Ramp 1 15.0 °C/min to 0°C Flow/Pressure 1.6 mL/min Final Temp. 240 °C Ramp 2 5°C to 150°C
Ramp 3 35°C to 240°C
Other Program or Special Conditions:

GC COLUMN:
Column ID#: MSVOCID014 (Circle one) Packed Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m
Internal/Surrogate Cylinder ID: CC-328925
Injection Type: Splitless Direct Injection

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1812	0.5L	2	MC051001	0.01060	VOC-VSP-33-24
2	HE0095-CCV1	↓		2	02	↓	↓ Not used
3	BS1	RA1843		6	03	0.01062	VOC-VSP-33-62
4	BS01	↓		6	04	↓	↓
5	-CCV1	RA1812	↓	2	05	0.01060	VOC-VSP-33-24
6	BLK1	8478	0.5L	10	06	1.0	MB
7	AUD0268-01	HL0957		1	07	2.4418	
8	02	RA0931		2	08	2.8541	
9	03	RA2208	↓	3	09	2.9503	
10	04	VS1008	0.5L	4	10	2.9692	

TestAmerica Austin
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
11	AUDU268-05	HL0808	0.5L	5	MCV5104	2.8218	
12	AUD0201-01	RA2342		6	12	2.5604	
13	02	RA2379		7	13	2.4648	
14	03	RA2414		8	14	2.4439	
15	04	RA2177		9	15	2.5417	
16	05	RA2227		10	16	2.6474	
17	Dup1		0.5L	10	17		
18	06	RA2100		11	18	100	
19	07	RA2206		12	19	2.6494	
20	08	HL0939		13	20	2.6909	
21	09	RA2324		14	21	2.6460	
22	10	5460		15	22	2.6017	
23	Dup2		0.5L	15	23	2.6017	
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

Sequence Name: C:\HPCHEM\1\SEQUENCE\CL110510.S
Comment:
Operator: KRW
Data Path: C:\MSVOC3\HPCHEM\3\DATA\C110510\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

5/10/11 KRW

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	MC051001	CA110501	WARMUP,,,,0.01060;CCAL
2	Sample	2	MC051002	CA110501	11E0095-CCV1,,,,0.01060;CCAL - not used
3	Sample	3	MC051003	CA110501	11E0095-BS1,,,,0.01062;LCS
4	Sample	4	MC051004	CA110501	11E0095-BSD1,,,,0.01062;LCS
5	Sample	6	MC051005	CA110501	11E0095-CCV1,,,,0.01060;CCAL
6	Sample	7	MC051006	CA110501	11E0095-BLK1
7	Sample	8	MC051007	CA110501	AUD0268-01,,,,;SOURCE
8	Sample	9	MC051008	CA110501	AUD0268-02,,,,;SOURCE
9	Sample	10	MC051009	CA110501	AUD0268-03,,,,;SOURCE
10	Sample	11	MC051010	CA110501	AUD0268-04,,,,;SOURCE
11	Sample	12	MC051011	CA110501	AUD0268-05,,,,;SOURCE
12	Sample	13	MC051012	CA110501	AUD020101,,,,;TCESL
13	Sample	14	MC051013	CA110501	AUD020102,,,,;TCESL
14	Sample	15	MC051014	CA110501	AUD020103,,,,;TCESL
15	Sample	16	MC051015	CA110501	AUD020104,,,,;TCESL
16	Sample	17	MC051016	CA110501	AUD020105,,,,;TCESL
17	Sample	18	MC051017	CA110501	11E0095-DUP1,,,,;TCESL
18	Sample	19	MC051018	CA110501	AUD020106,,,,;TCESL
19	Sample	20	MC051019	CA110501	AUD020107,,,,;TCESL
20	Sample	21	MC051020	CA110501	AUD020108,,,,;TCESL
21	Sample	22	MC051021	CA110501	AUD020109,,,,;TCESL
22	Sample	23	MC051022	CA110501	AUD020110,,,,;TCESL
23	Sample	24	MC051023	CA110501	11E0095-DUP2,,,,;TCESL

----------SEQUENCE TABLE ----------

Sequence Name: C:\Smart\C110510.SEQ
Date: 05-11-2011
Time: 09:49:23
Int. Std Volume: 200 cc

5/11/11
KW

Sample Name	Inlet #	Auto Samp Pos	Cal Vol.	Std Vol.	Method	Time
WARMUP	1	2	500	0	C:\Smart\C030211.MPT	12:00
11E0095-CCV1	1	2	500	0	C:\Smart\C030211.MPT	12:00 - Not used
11E0095-BS1	1	6	500	0	C:\Smart\C030211.MPT	12:00
11E0095-BSD1	1	6	500	0	C:\Smart\C030211.MPT	12:00
11E0095-CCV1	1	2	500	0	C:\Smart\C030211.MPT	12:00
11E0095-BLK1	1	10	500	0	C:\Smart\C030211.MPT	12:00
AUD0268-01	1	1	500	0	C:\Smart\C030211.MPT	12:00
AUD0268-02	1	2	100	0	C:\Smart\C030211.MPT	12:00
AUD0268-03	1	3	100	0	C:\Smart\C030211.MPT	12:00
AUD0268-04	1	4	100	0	C:\Smart\C030211.MPT	12:00
AUD0268-05	1	5	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-01	1	6	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-02	1	7	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-03	1	8	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-04	1	9	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-05	1	10	500	0	C:\Smart\C030211.MPT	12:00
11E0095-DUP1	1	10	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-06	1	11	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-07	1	12	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-08	1	13	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-09	1	14	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-10	1	15	500	0	C:\Smart\C030211.MPT	12:00
11E0095-DUP2	1	15	500	0	C:\Smart\C030211.MPT	12:00

Internal Standard/Surrogate Check Spreadsheet - Rev 04

Calcheck File name	IS 1 ACs	IS 2 ACs
MC051003.DSV	335711	265744

8/11/11
LW

		Low Tol	High Tol
IS1:	1,1-Dichloro-1-Fluoroethane	50	200
IS2:	Chlorobenzene-d5	50	200

File name	IS 1 ACs	IS 2 ACs	IS 1 % REC		IS 2 % REC	
MC051002.DSV	277364	245874	83		93	
MC051003.DSV	335711	265744	100		100	
MC051004.DSV	337079	257093	100		97	
MC051005.DSV	325289	297648	97		112	
MC051007.DSV	313077	227214	93		86	
MC051008.DSV	280765	210889	84		79	
MC051009.DSV	302771	268717	90		101	
MC051010.DSV	289661	254865	86		96	
MC051011.DSV	272223	220300	81		83	
MC051012.DSV	250734	191919	75		72	
MC051013.DSV	239753	185176	71		70	
MC051014.DSV	234371	176385	70		66	
MC051015.DSV	228497	168818	68		64	
MC051016.DSV	221891	166580	66		63	
MC051017.DSV	221843	166276	66		63	
MC051018.DSV	224342	172436	67		65	
MC051019.DSV	224776	160794	67		61	
MC051020.DSV	290376	143554	86		54	
MC051021.DSV	230285	171796	69		65	
MC051022.DSV	224676	171409	67		65	
MC051023.DSV	216508	163800	64		62	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
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			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	
			0		0	

Internal Standard/Surrogate Check Spreadsheet - Rev 04

Calcheck File name
MC051003.DSV

5/11/11 LM

		Low Tol	gh Tol	Spike (ppbV)
SURR1:	2-Bromo-1,1,1-trifluoroethar	70	130	2.00
SURR2:	Fluorobenzene	62	122	2.00
SURR3:	Toluene-d8	67	127	2.00
SURR4:	1,4-Dichlorobutane	76	136	2.00
SURR5:	1,4-Bromofluorobenzene	73	133	2.00

File name	Surr1 % REC		Surr2 % REC		Surr3 % REC		Surr4 % REC		Surr5 % REC	
MC051002.DSV	102		107		100		100		96	
MC051003.DSV	103		104		100		97		92	
MC051004.DSV	102		98		99		99		95	
MC051005.DSV	101		109		98		99		95	
MC051007.DSV	106		89		96		103		99	
MC051008.DSV	98		88		93		106		101	
MC051009.DSV	103		101		93		98		95	
MC051010.DSV	101		100		93		99		97	
MC051011.DSV	104		95		93		102		98	
MC051012.DSV	102		93		94		104		99	
MC051013.DSV	97		91		94		103		100	
MC051014.DSV.	102		90		95		106		102	
MC051015.DSV	102		90		96		106		101	
MC051016.DSV	109		89		95		106		101	
MC051017.DSV	101		89		95		105		101	
MC051018.DSV	109		94		97		104		100	
MC051019.DSV	108		87		96		104		99	
MC051020.DSV	87		58	Q	95		103		100	
MC051021.DSV	112		88		98		104		101	
MC051022.DSV	111		91		93		101		98	
MC051023.DSV	103		89		93		99		98	

BFB

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051003.D Vial: 3
Acq On : 10 May 2011 12:16 pm Operator: KRW
Sample : 11E0095-BS1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.460 to 29.510 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.7	14326	PASS
75	95	30	66	55.7	28762	PASS
95	95	100	100	100.0	51666	PASS
96	95	5	9	6.9	3559	PASS
173	174	0.00	2	0.4	134	PASS
174	95	50	120	69.4	35841	PASS
175	174	4	9	8.0	2875	PASS
176	174	93	101	96.1	34450	PASS
177	176	5	9	6.6	2259	PASS

MC051003.D CA110501.M Fri May 20 10:26:34 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051003.D Vial: 3
Acq On : 10 May 2011 12:16 pm Operator: KRW
Sample : 11E0095-BS1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:55 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5/18/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.03	81	335711	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.53	117	265744	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	147827	2.0645 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 103.00%	
65) Fluorobenzene	19.40	96	359602	2.0817 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 104.00%	
113) Toluene-d8	23.30	98	312971	2.0002 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.40	90	45128	1.9434 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
141) 1,4-Bromofluorobenzene	29.49	95	194827	1.8393 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	

Target Compounds						Qvalue
3) Ethylene	3.92	26	40215	7.2605 ppbV	S	98
4) Acetylene	4.02	26	121101	6.6344 ppbV	S	99
5) Ethane	4.11	26	44573	5.1646 ppbV	S	96
7) Propylene	5.69	41	255226	5.0510 ppbV	S	96
8) Chlorodifluoromethane	6.01	51	678080	5.5255 ppbV	S	95
9) Propane	5.83	43	107695	4.9203 ppbV	S	93
10) Dichlorodifluoromethane	6.32	85	897533	5.5804 ppbV	S	97
11) Chloromethane	7.15	50	335449	5.5841 ppbV	S	97
12) Isobutane	7.79	43	634526	4.8775 ppbV	S	96
13) Halocarbon 114	7.99	85	763575	4.7037 ppbV	S	80
15) Vinyl chloride	8.21	62	311180	5.5794 ppbV	S	99
16) 1-Butene/Isobutene	8.65	41	425606	4.9800 ppbV	S	95
17) 1,3-Butadiene	8.76	39	276807	5.6218 ppbV	S	93
18) n-Butane	8.92	43	547820	4.8488 ppbV	S	97
19) Methanol	8.67	31	58530m	4.6397 ppbV	S	
20) trans-2-Butene	9.28	41	379901	5.0973 ppbV	S	97
23) Bromomethane	9.45	94	253971	5.7054 ppbV	S	95
24) cis-2-Butene	9.75	41	400670	5.3591 ppbV	S	96
25) Chloroethane	10.02	64	150269	5.5157 ppbV	S	88
26) Vinyl bromide	10.81	106	234065	6.7156 ppbV	S	94
27) 3-Methyl-1-butene	10.84	55	753136	5.7898 ppbV	S	91
29) Acetonitrile	11.00	41	236946m	6.0321 ppbV	S	
30) Acrolein	11.24	56	83193	5.9226 ppbV	S	98
31) Isopentane	11.47	41	390062	5.0412 ppbV #	S	36
32) Trichlorofluoromethane	11.74	101	905729	6.1719 ppbV	S	99
33) 1-Pentene	12.05	42	417392	5.6987 ppbV #	S	78
34) Acetone	11.52	43	510282m	6.2426 ppbV	S	
35) 2-Propanol	12.23	45	414229	8.3905 ppbV	S	99
36) Acrylonitrile	12.45	52	172998	6.8220 ppbV	S	97
37) n-Pentane	12.47	43	592232	5.6642 ppbV	S	96
38) Diethyl ether	12.63	74	106733	6.3982 ppbV	S	90
39) Isoprene	12.65	67	281836	6.0504 ppbV	S	82
40) trans-2-Pentene	12.80	55	522958	6.0634 ppbV	S	91
41) 1,1-Dichloroethene	12.89	61	471368	6.1676 ppbV	S	91
42) cis-2-Pentene	13.10	55	526112	6.0542 ppbV	S	91

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051003.D Vial: 3
Acq On : 10 May 2011 12:16 pm Operator: KRW
Sample : 11E0095-BS1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:55 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43) Methylene chloride	13.22	49	380099	5.8209	ppbV		S	84
44) 2-Methyl-2-butene	13.29	55	555651	6.1003	ppbV		S	93
45) Carbon Disulfide	13.35	76	650375	5.8975	ppbV		S	100
46) 3-Chloropropene	13.39	41	271898	5.0288	ppbV		S	88
47) Halocarbon 113	13.70	151	478665	6.4083	ppbV		S	79
50) trans-1,2-Dichloroethene	14.73	61	358434	5.6096	ppbV		S	85
51) 4-Methyl-1-pentene	14.77	43	527082	5.6338	ppbV		S	93
53) 1,1-Dichloroethane	15.02	63	456297	5.9064	ppbV	#	S	100
56) Methyl tert-butyl ether	15.16	73	755867	6.0922	ppbV		S	95
58) Vinyl acetate	15.42	43	420224	3.2909	ppbV		S	99
62) 2-Butanone	15.70	43	608860	5.8768	ppbV		S	99
63) Chloroprene	15.90	53	451755	5.5849	ppbV	#	S	88
68) cis-1,2-Dichloroethene	16.33	61	348194	5.8523	ppbV		S	94
71) n-Hexane	16.69	57	428484	5.7304	ppbV		S	88
72) Chloroform	16.80	83	485911	6.0268	ppbV		S	91
74) trans-2-Hexene	16.90	55	534103	6.1460	ppbV		S	91
77) cis-2-Hexene	17.30	55	446732	5.8584	ppbV	#	S	61
79) 1,2-Dichloroethane	17.84	62	386493	5.6952	ppbV		S	97
81) 1,1,1-Trichloroethane	18.20	97	625680	6.5172	ppbV		S	99
84) Benzene	18.88	78	591751	5.7084	ppbV		S	90
85) Carbon tetrachloride	19.11	117	130209	1.3294	ppbV		S	97
86) 1-Butanol	19.02	56	95810	5.6053	ppbV		S	97
87) Cyclohexane	19.28	56	510636	5.4139	ppbV		S	93
92) 1,2-Dichloropropane	20.15	63	247889	5.6633	ppbV		S	79
93) Bromodichloromethane	20.47	83	397258	4.6423	ppbV		S	94
94) Trichloroethene	20.53	130	281487	5.7485	ppbV		S	96
95) 1,4-Dioxane	20.54	88	101666	9.2805	ppbV		S	96
97) 2,2,4-Trimethylpentane	20.61	57	1573303	5.3700	ppbV	#	S	41
98) 2-Chloropentane	20.84	70	294419	6.1274	ppbV		S	92
100) n-Heptane	21.08	71	225107	5.1519	ppbV	#	S	43
104) cis-1,3-Dichloropropene	21.92	75	339890	6.4184	ppbV		S	86
105) Methylisobutylketone	21.99	43	764414	6.6320	ppbV		S	97
110) trans-1,3-Dichloropropene	22.78	75	289462	5.7701	ppbV		S	92
111) 1,1,2-Trichloroethane	23.03	97	235518	5.6801	ppbV		S	91
114) Toluene	23.46	91	689270	5.6846	ppbV		S	98
116) 2-Hexanone	23.98	43	746540	6.5280	ppbV		S	94
119) Dibromochloromethane	24.15	129	237871	3.7673	ppbV		S	98
122) 1,2-Dibromoethane	24.55	107	361234	5.5962	ppbV		S	99
125) n-Octane	25.28	43	662266	4.9105	ppbV		S	96
126) Tetrachloroethene	25.39	164	254338	5.9811	ppbV		S	93
128) Chlorobenzene	26.60	112	489636	5.6793	ppbV		S	97
129) Ethylbenzene	27.35	91	809882	6.3190	ppbV	#	S	1
130) m/p-Xylene	27.71	91	1331622m	11.9376	ppbV		S	
131) Bromoform	27.75	173	86868	2.3509	ppbV		S	93
134) Styrene	28.38	104	448907	6.3328	ppbV		S	93
135) 1,1,2,2-Tetrachloroethane	28.58	83	443280	5.1183	ppbV		S	97
136) o-Xylene	28.58	91	670745	6.2181	ppbV		S	98
140) n-Nonane	29.18	43	642769	5.3081	ppbV		S	91
142) Isopropylbenzene	29.80	105	901901	6.6279	ppbV		S	97
145) o/m-Chlorotoluene	30.76	91	596207	5.9434	ppbV		S	91
147) n-Propylbenzene	30.90	91	1003234	5.7030	ppbV		S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051003.D Vial: 3
Acq On : 10 May 2011 12:16 pm Operator: KRW
Sample : 11E0095-BS1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:55 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

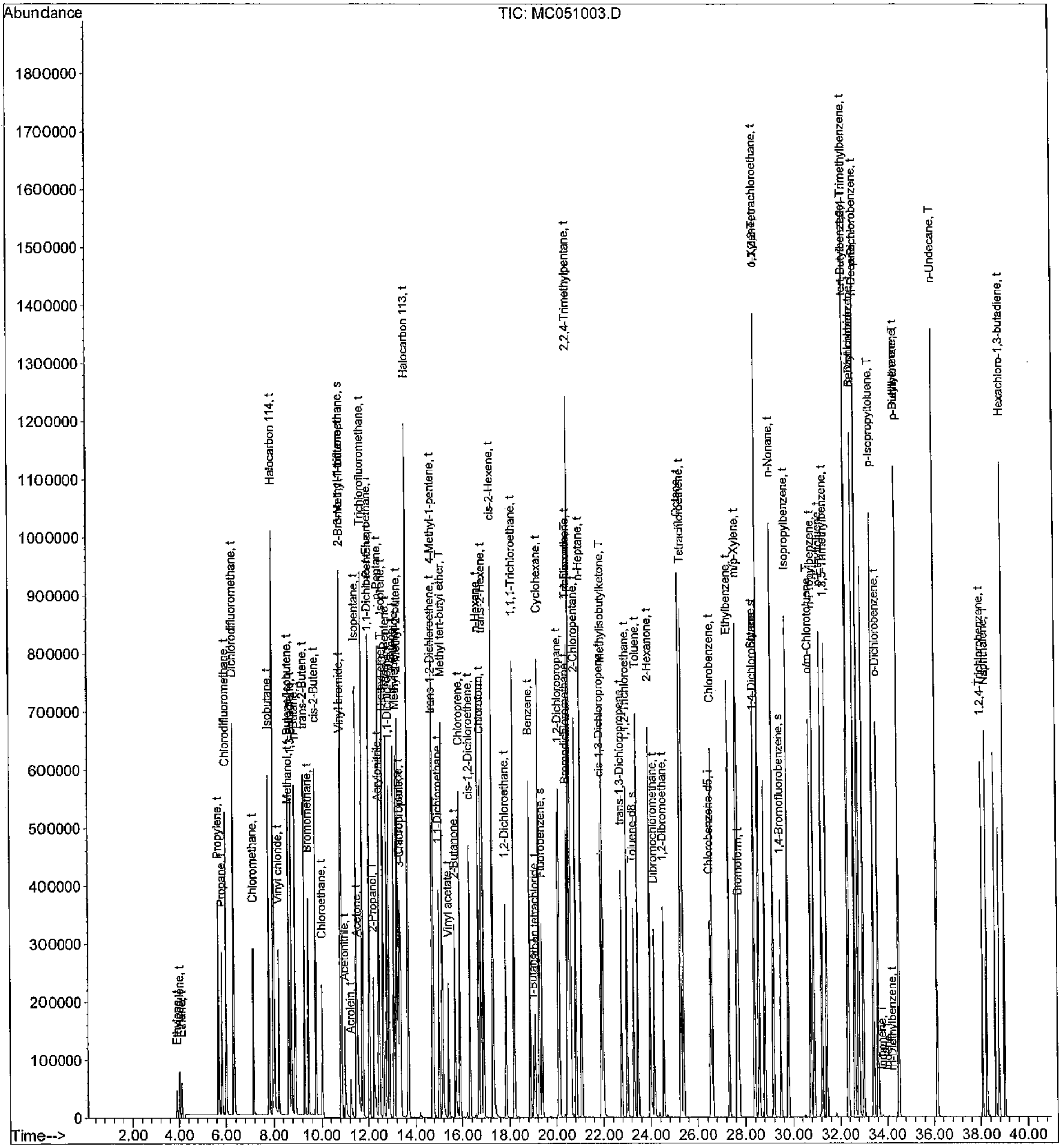
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
149) p-Ethyltoluene	31.24	105	841903	6.4458	ppbV	S	99
150) 1,3,5-Trimethylbenzene	31.43	105	710627	6.9020	ppbV	S	97
153) 1,2,4-Trimethylbenzene	32.36	105	720036	7.0255	ppbV #	S	75
154) tert-Butylbenzene	32.34	119	906768	7.9247	ppbV	S	87
156) Benzyl chloride	32.64	91	553000	8.9082	ppbV	S	99
157) m-Dichlorobenzene	32.64	146	431445	6.0714	ppbV	S	98
158) n-Decane	32.79	57	630054	5.1271	ppbV	S	84
159) p-Dichlorobenzene	32.82	146	424065	5.9113	ppbV	S	95
162) p-Isopropyltoluene	33.44	119	969251	7.1376	ppbV	S	95
163) o-Dichlorobenzene	33.63	146	429230	6.1744	ppbV	S	99
164) Limonene	33.79	68	550	0.0104	ppbV		76
165) Indan	33.82	117	1551	0.0160	ppbV		89
166) Indene	34.04	115	1707	0.0199	ppbV		91
167) m-Diethylbenzene	34.24	105	1081	0.0093	ppbV		80
168) p-Diethylbenzene	34.52	119	12361	0.1233	ppbV #		1
169) n-Butylbenzene	34.52	91	1024381	6.8396	ppbV	S	99
171) n-Undecane	36.14	57	784252	6.1903	ppbV	S	89
172) 1,2,4-Trichlorobenzene	38.08	180	195241	4.2650	ppbV	S	97
173) Naphthalene	38.26	128	600909	4.4343	ppbV	S	99
174) Hexachloro-1,3-butadiene	39.02	225	174098	4.3700	ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

```
Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051003.D   Vial: 3
Acq On    : 10 May 2011  12:16 pm                       Operator: KRW
Sample    : 11E0095-BS1,,,,0.01062;LCS                  Inst    : VMSC
Misc      : 1,1,1000,500,                               Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:55 19111              Quant Results File: CA110501.RES

Method         : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title          :
Last Update    : Mon May 02 15:07:57 2011
Response via   : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051004.D Vial: 4
Acq On : 10 May 2011 1:19 pm Operator: KRW
Sample : 11E0095-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:58 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5/18/11 LCW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	337079	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	257093	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	145979	2.0304 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 101.50%	
65) Fluorobenzene	19.39	96	341231	1.9674 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 98.50%	
113) Toluene-d8	23.30	98	298919	1.9747 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.40	90	44552	1.9832 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
141) 1,4-Bromofluorobenzene	29.48	95	195625	1.9090 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 95.50%	

Target Compounds						Qvalue
3) Ethylene	3.92	26	17256	3.1028 ppbV	S	99
4) Acetylene	4.02	26	82480	4.5003 ppbV	S	99
5) Ethane	4.11	26	36446	4.2058 ppbV	S	97
7) Propylene	5.68	41	254149	5.0092 ppbV	S	96
8) Chlorodifluoromethane	6.00	51	677564	5.4989 ppbV	S	95
9) Propane	5.84	43	107297	4.8822 ppbV	S	94
10) Dichlorodifluoromethane	6.32	85	890152	5.5121 ppbV	S	97
11) Chloromethane	7.14	50	334856	5.5516 ppbV	S	97
12) Isobutane	7.79	43	632225	4.8401 ppbV	S	95
13) Halocarbon 114	7.98	85	763261	4.6826 ppbV	S	83
15) Vinyl chloride	8.21	62	307037	5.4827 ppbV	S	99
16) 1-Butene/Isobutene	8.65	41	415419	4.8411 ppbV	S	95
17) 1,3-Butadiene	8.75	39	268302	5.4269 ppbV	S	94
18) n-Butane	8.91	43	546816	4.8203 ppbV	S	97
19) Methanol	8.67	31	56320m	4.4464 ppbV	S	
20) trans-2-Butene	9.28	41	368592	4.9255 ppbV	S	97
23) Bromomethane	9.45	94	249690	5.5864 ppbV	S	94
24) cis-2-Butene	9.75	41	390128	5.1969 ppbV	S	96
25) Chloroethane	10.02	64	144840	5.2948 ppbV	S	89
26) Vinyl bromide	10.81	106	229374	6.5543 ppbV	S	95
27) 3-Methyl-1-butene	10.84	55	737491	5.6465 ppbV	S	91
29) Acetonitrile	11.00	41	235092m	5.9607 ppbV	S	
30) Acrolein	11.23	56	82789	5.8700 ppbV	S	99
31) Isopentane	11.47	41	382712	4.9261 ppbV #	S	35
32) Trichlorofluoromethane	11.73	101	885631	6.0104 ppbV	S	99
33) 1-Pentene	12.04	42	406219	5.5237 ppbV #	S	77
34) Acetone	11.51	43	509639m	6.2094 ppbV	S	
35) 2-Propanol	12.22	45	462072m	9.3216 ppbV	S	
36) Acrylonitrile	12.44	52	169029	6.6384 ppbV	S	95
37) n-Pentane	12.47	43	572146	5.4499 ppbV	S	96
38) Diethyl ether	12.62	74	105786	6.3157 ppbV	S	91
39) Isoprene	12.64	67	274545	5.8700 ppbV	S	83
40) trans-2-Pentene	12.79	55	505995	5.8429 ppbV	S	92
41) 1,1-Dichloroethene	12.88	61	453538	5.9102 ppbV	S	90
42) cis-2-Pentene	13.09	55	508485	5.8276 ppbV	S	90

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051004.D Vial: 4
Acq On : 10 May 2011 1:19 pm Operator: KRW
Sample : 11E0095-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:58 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
43)	Methylene chloride	13.21	49	374357	5.7097 ppbV		S	84
44)	2-Methyl-2-butene	13.27	55	545766	5.9675 ppbV		S	92
45)	Carbon Disulfide	13.34	76	637576	5.7579 ppbV		S	99
46)	3-Chloropropene	13.38	41	263834	4.8598 ppbV		S	87
47)	Halocarbon 113	13.69	151	482053	6.4275 ppbV		S	79
50)	trans-1,2-Dichloroethene	14.72	61	347205	5.4118 ppbV		S	87
51)	4-Methyl-1-pentene	14.76	43	518280	5.5172 ppbV		S	92
53)	1,1-Dichloroethane	15.01	63	445757	5.7465 ppbV	#	S	100
56)	Methyl tert-butyl ether	15.16	73	767663	6.1622 ppbV		S	95
58)	Vinyl acetate	15.42	43	407222	3.1761 ppbV		S	99
62)	2-Butanone	15.69	43	605548	5.8211 ppbV		S	99
63)	Chloroprene	15.90	53	436198	5.3707 ppbV	#	S	89
68)	cis-1,2-Dichloroethene	16.32	61	341060	5.7091 ppbV		S	92
71)	n-Hexane	16.68	57	420043	5.5948 ppbV		S	89
72)	Chloroform	16.79	83	474079	5.8562 ppbV		S	93
74)	trans-2-Hexene	16.90	55	516187	5.9157 ppbV		S	91
77)	cis-2-Hexene	17.30	55	432681	5.6511 ppbV	#	S	59
79)	1,2-Dichloroethane	17.84	62	375398	5.5093 ppbV		S	97
81)	1,1,1-Trichloroethane	18.20	97	612950	6.3587 ppbV		S	99
84)	Benzene	18.87	78	578839	5.7717 ppbV		S	90
85)	Carbon tetrachloride	19.10	117	128909	1.3604 ppbV		S	96
86)	1-Butanol	19.01	56	154409	9.3375 ppbV		S	98
87)	Cyclohexane	19.27	56	511067	5.6008 ppbV		S	93
92)	1,2-Dichloropropane	20.14	63	243069	5.7401 ppbV		S	79
93)	Bromodichloromethane	20.47	83	388865	4.6972 ppbV		S	96
94)	Trichloroethene	20.53	130	276658	5.8400 ppbV		S	96
95)	1,4-Dioxane	20.53	88	89966	8.4888 ppbV		S	98
97)	2,2,4-Trimethylpentane	20.61	57	1555392	5.4875 ppbV	#	S	41
98)	2-Chloropentane	20.84	70	289101	6.2192 ppbV		S	92
100)	n-Heptane	21.08	71	222008	5.2520 ppbV	#	S	47
104)	cis-1,3-Dichloropropene	21.91	75	337573	6.5892 ppbV		S	86
105)	Methylisobutylketone	21.99	43	754784	6.7688 ppbV		S	97
110)	trans-1,3-Dichloropropene	22.78	75	287233	5.9183 ppbV		S	92
111)	1,1,2-Trichloroethane	23.02	97	231327	5.7667 ppbV		S	91
112)	2,3,4-Trimethylpentane	23.30	43	2975	0.0160 ppbV	#		1
114)	Toluene	23.46	91	676864	5.7701 ppbV		S	98
116)	2-Hexanone	23.98	43	729050	6.5896 ppbV		S	95
119)	Dibromochloromethane	24.15	129	233442	3.8215 ppbV		S	99
122)	1,2-Dibromoethane	24.55	107	357413	5.7233 ppbV		S	99
125)	n-Octane	25.28	43	651041	4.9897 ppbV		S	97
126)	Tetrachloroethene	25.39	164	250963	6.1003 ppbV		S	95
127)	cis-2-Octene	25.76	55	37	0.0006 ppbV	#		45
128)	Chlorobenzene	26.60	112	486459	5.8324 ppbV		S	97
129)	Ethylbenzene	27.34	91	800961	6.4597 ppbV	#	S	1
130)	m/p-Xylene	27.71	91	1307618m	12.1169 ppbV		S	
131)	Bromoform	27.74	173	85110	2.3808 ppbV		S	90
134)	Styrene	28.38	104	446947	6.5174 ppbV		S	93
135)	1,1,2,2-Tetrachloroethane	28.58	83	438197	5.2298 ppbV		S	96
136)	o-Xylene	28.58	91	661103	6.3350 ppbV		S	98
140)	n-Nonane	29.18	43	636019	5.4291 ppbV		S	91
142)	Isopropylbenzene	29.80	105	892341	6.7783 ppbV		S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051004.D Vial: 4
Acq On : 10 May 2011 1:19 pm Operator: KRW
Sample : 11E0095-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:58 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

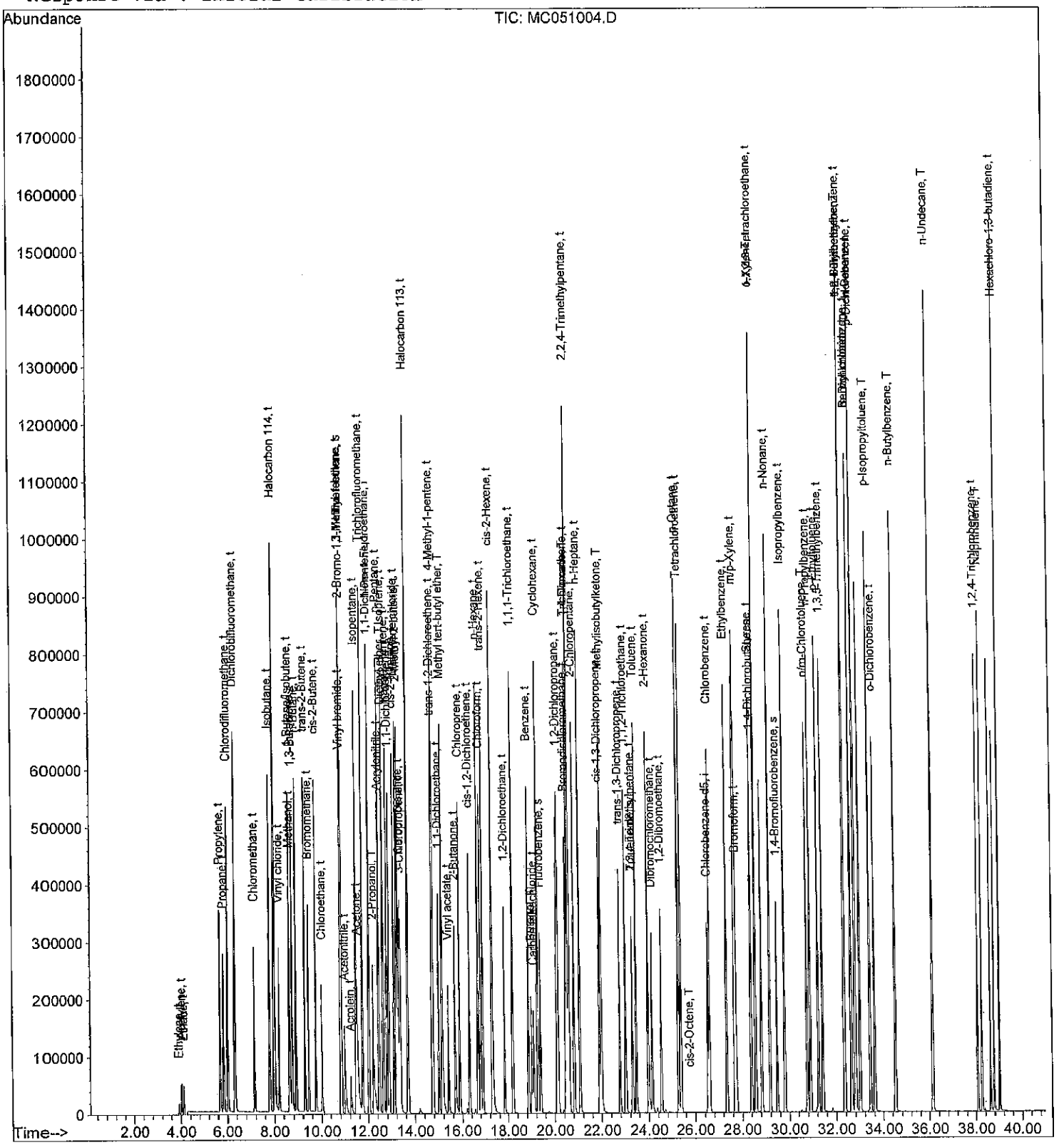
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
145)	o/m-Chlorotoluene	30.76	91	594983	6.1308 ppbV	S	91
147)	n-Propylbenzene	30.90	91	991779	5.8276 ppbV	S	99
149)	p-Ethyltoluene	31.24	105	834689	6.6056 ppbV	S	98
150)	1,3,5-Trimethylbenzene	31.43	105	700210	7.0296 ppbV	S	98
153)	1,2,4-Trimethylbenzene	32.36	105	711773	7.1785 ppbV #	S	69
154)	tert-Butylbenzene	32.34	119	889686	8.0370 ppbV	S	86
156)	Benzyl chloride	32.63	91	532369	8.8644 ppbV	S	98
157)	m-Dichlorobenzene	32.64	146	428523	6.2332 ppbV	S	97
158)	n-Decane	32.79	57	610062	5.1315 ppbV	S	85
159)	p-Dichlorobenzene	32.82	146	420182	6.0543 ppbV	S	95
162)	p-Isopropyltoluene	33.44	119	930951	7.0862 ppbV	S	95
163)	o-Dichlorobenzene	33.63	146	413133	6.1428 ppbV	S	99
169)	n-Butylbenzene	34.52	91	946030	6.5290 ppbV	S	99
171)	n-Undecane	36.14	57	834276	6.8067 ppbV	S	89
172)	1,2,4-Trichlorobenzene	38.08	180	255605	5.7715 ppbV	S	97
173)	Naphthalene	38.26	128	771289	5.8831 ppbV	S	100
174)	Hexachloro-1,3-butadiene	39.02	225	245662	6.3737 ppbV	S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051004.D Vial: 4
Acq On : 10 May 2011 1:19 pm Operator: KRW
Sample : 11E0095-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 10:58 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051005.D Vial: 6
Acq On : 10 May 2011 2:23 pm Operator: KRW
Sample : 11E0095-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 11:01 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5/18/11 rew

MW 5/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.01	81	325289	2.0000 ppbV	-0.04
82) Chlorobenzene-d5	26.52	117	297648	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	140359	2.0230 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.39	96	363499	2.1717 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 108.50%	
113) Toluene-d8	23.30	98	344306	1.9646 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.40	90	51700	1.9878 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
141) 1,4-Bromofluorobenzene	29.48	95	225462	1.9004 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 95.00%	

Target Compounds						Qvalue
3) Ethylene	3.91	26	11335	2.1120 ppbV	S	97
4) Acetylene	4.02	26	81947	4.6332 ppbV	S	99
5) Ethane	4.11	26	32465	3.8822 ppbV	S	97
7) Propylene	5.68	41	259578	5.3017 ppbV	S	96
9) Propane	5.83	43	112726	5.3151 ppbV	S	95
10) Dichlorodifluoromethane	6.31	85	852404	5.4696 ppbV	S	97
11) Chloromethane	7.14	50	321252	5.5191 ppbV	S	97
12) Isobutane	7.79	43	643419	5.1043 ppbV	S	95
13) Halocarbon 114	7.98	85	825983	5.2511 ppbV	S	84
14) Acetaldehyde	7.95	44	132988	5.9398 ppbV	S	92
15) Vinyl chloride	8.21	62	299019	5.5331 ppbV	S	99
16) 1-Butene/Isobutene	8.64	41	445850	5.3840 ppbV	S	95
17) 1,3-Butadiene	8.75	39	279395	5.8561 ppbV	S	94
18) n-Butane	8.91	43	565053	5.1616 ppbV	S	98
19) Methanol	8.67	31	53921m	4.4113 ppbV	S	
20) trans-2-Butene	9.27	41	401766	5.5634 ppbV	S	97
23) Bromomethane	9.44	94	248220	5.7548 ppbV	S	95
24) cis-2-Butene	9.75	41	422908	5.8378 ppbV	S	97
25) Chloroethane	10.02	64	153876	5.8290 ppbV	S	89
26) Vinyl bromide	10.80	106	274752	8.1355 ppbV	S	93
27) 3-Methyl-1-butene	10.83	55	755276	5.9923 ppbV	S	92
28) Ethanol	10.79	45	83566	6.4756 ppbV	S	95
29) Acetonitrile	10.98	41	285214m	7.4936 ppbV	S	
30) Acrolein	11.22	56	113706	8.3543 ppbV	S	98
31) Isopentane	11.46	41	398669	5.3175 ppbV #	S	36
32) Trichlorofluoromethane	11.73	101	877929	6.1741 ppbV	S	99
33) 1-Pentene	12.03	42	431779	6.0840 ppbV #	S	77
34) Acetone	11.50	43	607713m	7.6727 ppbV	S	
36) Acrylonitrile	12.44	52	201648	8.2065 ppbV	S	96
37) n-Pentane	12.46	43	616173	6.0820 ppbV	S	96
39) Isoprene	12.63	67	286411	6.3457 ppbV	S	82
40) trans-2-Pentene	12.79	55	561782	6.7222 ppbV	S	91
41) 1,1-Dichloroethene	12.88	61	476696	6.4371 ppbV	S	91
42) cis-2-Pentene	13.09	55	556196	6.6055 ppbV	S	91
43) Methylene chloride	13.20	49	387021	6.1168 ppbV	S	84

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051005.D Vial: 6
Acq On : 10 May 2011 2:23 pm Operator: KRW
Sample : 11E0095-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 11:01 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
44)	2-Methyl-2-butene	13.27	55	609537	6.9063 ppbV		S	91
45)	Carbon Disulfide	13.34	76	854956	8.0009 ppbV		S	99
46)	3-Chloropropene	13.38	41	364708	6.9614 ppbV		S	90
47)	Halocarbon 113	13.68	151	455921	6.2994 ppbV		S	80
48)	Neohexane	13.85	43	550828	5.4926 ppbV	#	S	79
49)	Cyclopentene	14.56	67	534562	6.1407 ppbV		S	92
50)	trans-1,2-Dichloroethene	14.71	61	396377	6.4022 ppbV		S	86
51)	4-Methyl-1-pentene	14.75	43	552878	6.0989 ppbV		S	93
53)	1,1-Dichloroethane	15.01	63	488745	6.5291 ppbV	#	S	100
54)	Cyclopentane	15.01	42	669458	5.8586 ppbV		S	96
55)	2,3-Dimethylbutane	15.11	43	1078005	5.9592 ppbV		S	89
56)	Methyl tert-butyl ether	15.15	73	745215	6.1988 ppbV		S	86
57)	Isohexane	15.32	42	445674	6.0088 ppbV	#	S	64
58)	Vinyl acetate	15.40	43	937417	7.5764 ppbV		S	99
62)	2-Butanone	15.68	43	729354	7.2654 ppbV		S	99
63)	Chloroprene	15.89	53	491830	6.2751 ppbV	#	S	89
64)	3-Methylpentane	15.92	57	649006	6.2649 ppbV	#	S	1
66)	2-Methyl-1-pentene	16.14	56	526698	6.6127 ppbV		S	90
67)	1-Hexene	16.18	41	311495	5.8683 ppbV		S	98
68)	cis-1,2-Dichloroethene	16.31	61	368694	6.3954 ppbV		S	93
69)	Bromochloromethane	16.55	130	194220	6.7205 ppbV		S	96
71)	n-Hexane	16.68	57	489213	6.7522 ppbV		S	89
72)	Chloroform	16.78	83	506106	6.4784 ppbV		S	92
74)	trans-2-Hexene	16.89	55	576768	6.8496 ppbV		S	91
77)	cis-2-Hexene	17.29	55	478476	6.4758 ppbV		S	93
78)	Methylcyclopentane	17.82	56	662799	6.3117 ppbV		S	89
79)	1,2-Dichloroethane	17.83	62	428327	6.5139 ppbV		S	97
80)	2,4-Dimethylpentane	18.00	43	844665	6.0647 ppbV		S	90
81)	1,1,1-Trichloroethane	18.19	97	651895	7.0078 ppbV		S	99
84)	Benzene	18.87	78	638531	5.4994 ppbV		S	90
85)	Carbon tetrachloride	19.09	117	679526	6.1943 ppbV		S	97
86)	1-Butanol	19.00	56	154852	8.0884 ppbV		S	98
87)	Cyclohexane	19.27	56	565560	5.3535 ppbV		S	93
88)	Isoheptane	19.65	43	821304	5.0896 ppbV		S	91
89)	2,3-Dimethylpentane	19.72	56	667083	5.2435 ppbV		S	91
91)	3-Methylhexane	20.03	43	647563	5.0756 ppbV		S	87
92)	1,2-Dichloropropane	20.13	63	267627	5.4589 ppbV		S	80
93)	Bromodichloromethane	20.46	83	498373	5.1997 ppbV		S	95
94)	Trichloroethene	20.52	130	308913	5.6324 ppbV		S	96
95)	1,4-Dioxane	20.53	88	106982	8.7190 ppbV		S	97
97)	2,2,4-Trimethylpentane	20.60	57	1762664	5.3714 ppbV	#	S	41
98)	2-Chloropentane	20.83	70	363919	6.7621 ppbV		S	95
100)	n-Heptane	21.07	71	255654	5.2239 ppbV	#	S	49
104)	cis-1,3-Dichloropropene	21.91	75	352472	5.9426 ppbV		S	87
105)	Methylisobutylketone	21.98	43	946252	7.3297 ppbV		S	83
106)	Methylcyclohexane	22.00	83	496603	5.3529 ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.77	75	363778	6.4742 ppbV		S	92
111)	1,1,2-Trichloroethane	23.02	97	255223	5.4955 ppbV		S	90
112)	2,3,4-Trimethylpentane	23.25	43	1088922	5.0663 ppbV		S	88
114)	Toluene	23.46	91	764705	5.6307 ppbV		S	98
117)	2-Methylheptane	23.88	43	743387	5.0557 ppbV		S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051005.D Vial: 6
Acq On : 10 May 2011 2:23 pm Operator: KRW
Sample : 11E0095-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 11:01 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

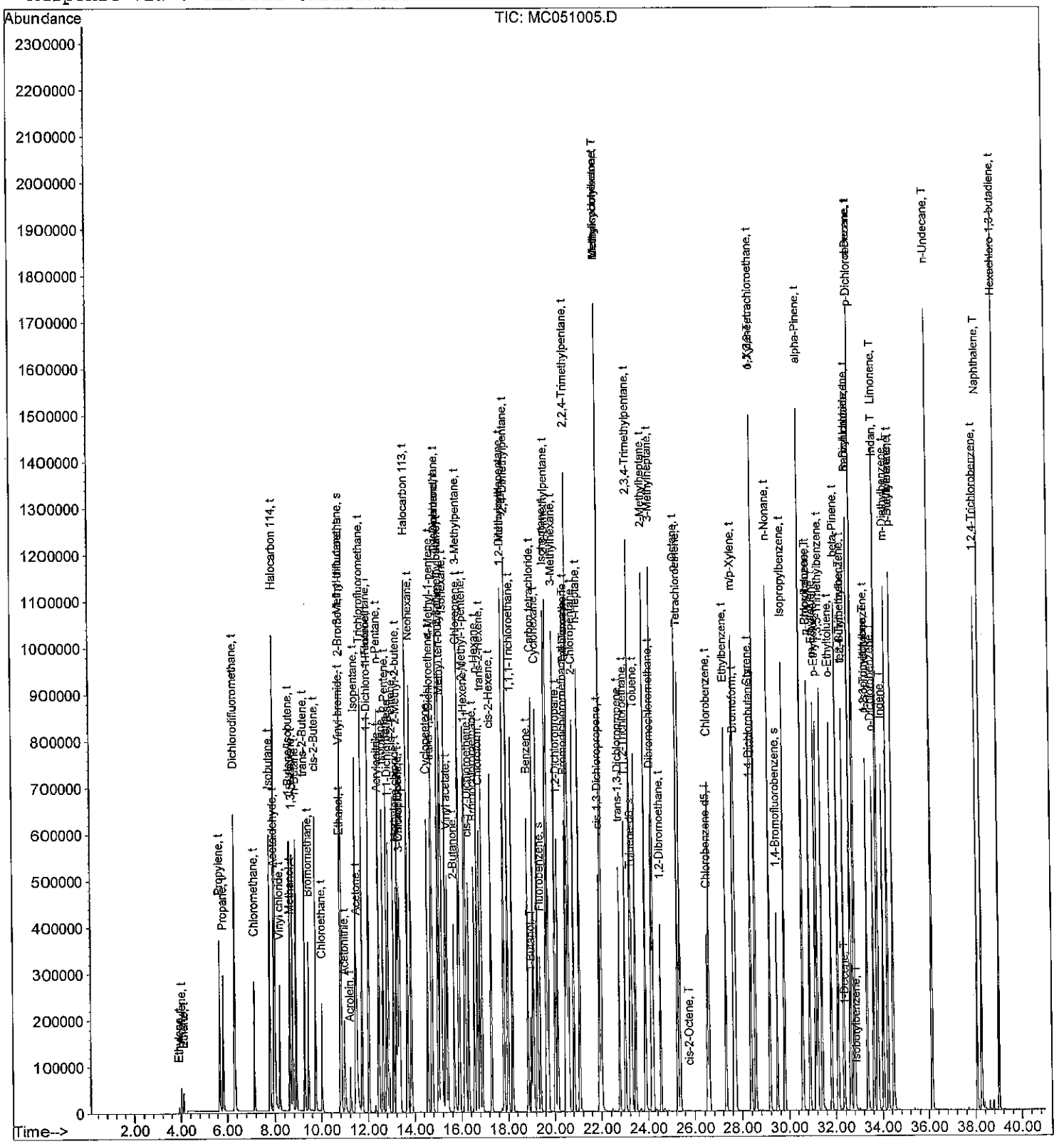
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
119)	Dibromochloromethane	24.15	129	476346	6.7355	ppbV		S	99
120)	3-Methylheptane	24.21	85	356705	5.3525	ppbV		S	81
122)	1,2-Dibromoethane	24.54	107	402951	5.5733	ppbV		S	99
125)	n-Octane	25.27	43	752726	4.9830	ppbV		S	96
126)	Tetrachloroethene	25.39	164	281472	5.9097	ppbV		S	95
127)	cis-2-Octene	25.78	55	83	0.0011	ppbV	#		64
128)	Chlorobenzene	26.60	112	545017	5.6441	ppbV		S	98
129)	Ethylbenzene	27.34	91	892575	6.2177	ppbV	#	S	1
130)	m/p-Xylene	27.71	91	1532567m	12.2664	ppbV		S	
131)	Bromoform	27.74	173	343786	8.3065	ppbV		S	95
134)	Styrene	28.38	104	506519	6.3797	ppbV		S	93
135)	1,1,2,2-Tetrachloroethane	28.57	83	483894	4.9883	ppbV		S	97
136)	o-Xylene	28.58	91	731049	6.0507	ppbV		S	99
140)	n-Nonane	29.18	43	720897	5.3152	ppbV		S	92
142)	Isopropylbenzene	29.80	105	1003472	6.5839	ppbV		S	97
144)	alpha-Pinene	30.59	93	930037	6.3934	ppbV		S	98
146)	p-Chlorotoluene	30.90	91	1143784	10.2202	ppbV	#		56
147)	n-Propylbenzene	30.90	91	1143784	5.8051	ppbV		S	99
148)	m-Ethyltoluene	31.16	105	856043	6.3626	ppbV		S	98
149)	p-Ethyltoluene	31.24	105	856380	5.8538	ppbV		S	99
150)	1,3,5-Trimethylbenzene	31.43	105	796780	6.9092	ppbV		S	98
151)	o-Ethyltoluene	31.83	105	839725	6.2989	ppbV		S	98
152)	beta-Pinene	32.11	93	655571	4.0542	ppbV		S	93
153)	1,2,4-Trimethylbenzene	32.36	105	778072	6.7780	ppbV		S	97
154)	tert-Butylbenzene	32.36	119	91375	0.7130	ppbV	#		22
155)	1-Decene	32.40	56	36	0.0007	ppbV	#		1
156)	Benzyl chloride	32.63	91	583965	8.3987	ppbV		S	98
157)	m-Dichlorobenzene	32.64	146	493400	6.1991	ppbV		S	98
158)	n-Decane	32.79	57	700641	5.0904	ppbV		S	86
159)	p-Dichlorobenzene	32.81	146	484192	6.0260	ppbV		S	96
160)	Isobutylbenzene	32.89	91	1997	0.0128	ppbV			96
161)	1,2,3-Trimethylbenzene	33.36	105	711421	5.9529	ppbV		S	97
162)	p-Isopropyltoluene	33.36	119	70028	0.4604	ppbV	#		1
163)	o-Dichlorobenzene	33.63	146	455933	5.8555	ppbV		S	99
164)	Limonene	33.79	68	383253	6.4905	ppbV		S	93
165)	Indan	33.82	117	739691	6.8186	ppbV		S	98
166)	Indene	34.04	115	631706	6.5884	ppbV		S	97
167)	m-Diethylbenzene	34.24	105	650922	4.9840	ppbV		S	99
168)	p-Diethylbenzene	34.47	119	658125	5.8596	ppbV	#	S	1
169)	n-Butylbenzene	34.47	91	234466	1.3977	ppbV	#		1
171)	n-Undecane	36.14	57	1020385	7.1909	ppbV		S	92
172)	1,2,4-Trichlorobenzene	38.08	180	361998	7.0601	ppbV		S	97
173)	Naphthalene	38.26	128	1309817	8.6295	ppbV		S	99
174)	Hexachloro-1,3-butadiene	39.02	225	315502	7.0704	ppbV		S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051005.D Vial: 6
Acq On : 10 May 2011 2:23 pm Operator: KRW
Sample : 11E0095-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 11:01 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051006.D Vial: 7
Acq On : 10 May 2011 3:26 pm Operator: KRW
Sample : 11E0095-BLK1 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 10:33 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

DAH 5-20-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	336686	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	237202	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	148362	2.0659 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	19.39	96	301206	1.7386 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	23.30	98	264323	1.8926 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 94.50%	
115) 1,4-Dichlorobutane	28.40	90	42636	2.0571 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	29.48	95	191014	2.0203 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 101.00%	

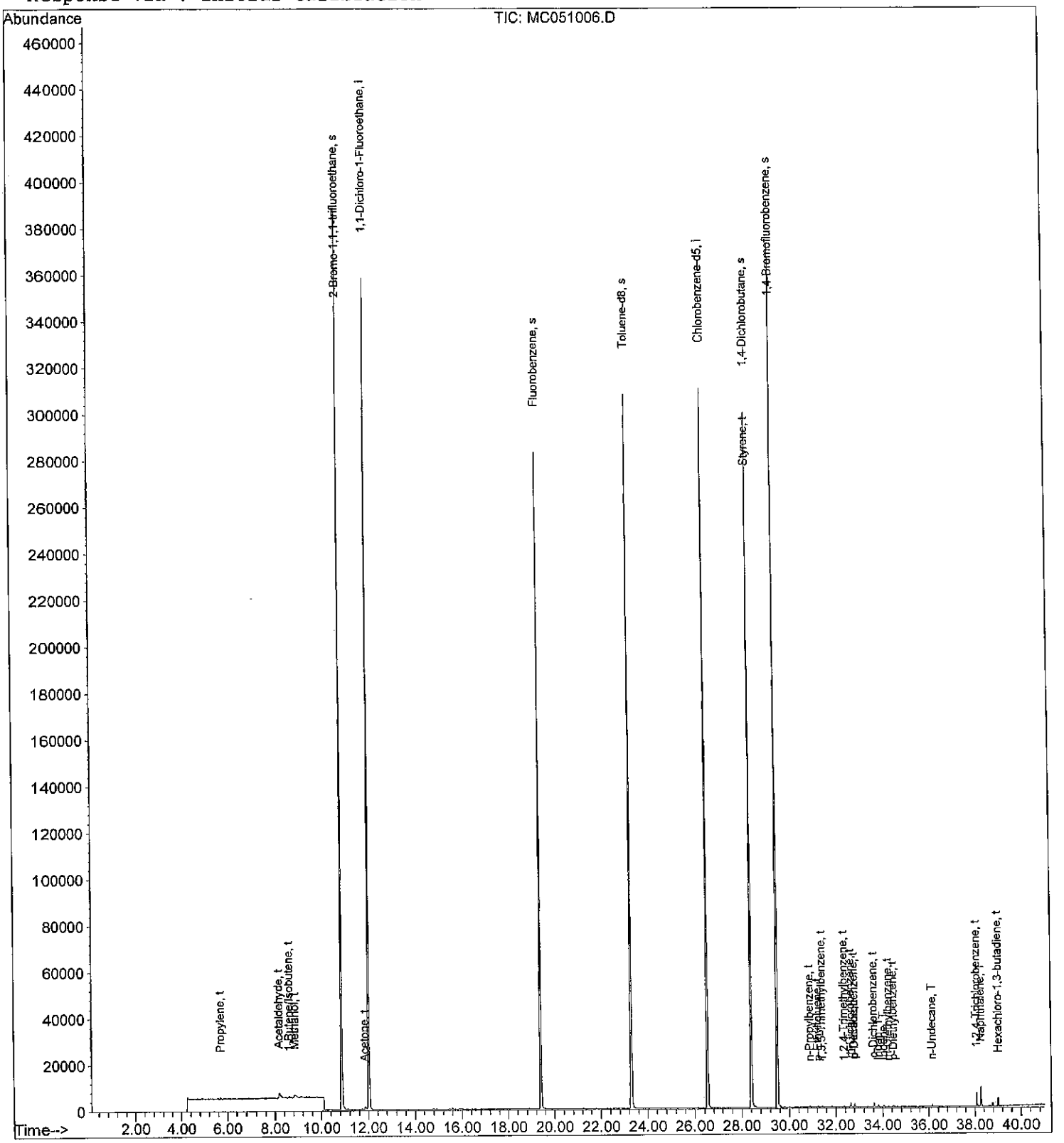
Target Compounds					Qvalue
7) Propylene	5.69	41	308	0.0061 ppbV	89
14) Acetaldehyde	8.19	44	4321m	0.1865 ppbV	
16) 1-Butene/Isobutene	8.62	41	554	0.0065 ppbV	68
19) Methanol	8.87	31	1833m	0.1449 ppbV	
34) Acetone	11.86	43	4631m	0.0565 ppbV	
134) Styrene	28.39	104	246	0.0039 ppbV #	1
147) n-Propylbenzene	30.90	91	755	0.0048 ppbV	69
149) p-Ethyltoluene	31.23	105	540	0.0046 ppbV #	54
150) 1,3,5-Trimethylbenzene	31.43	105	402	0.0044 ppbV #	40
153) 1,2,4-Trimethylbenzene	32.36	105	498	0.0054 ppbV #	45
157) m-Dichlorobenzene	32.64	146	1004	0.0158 ppbV	77
158) n-Decane	32.79	57	131m	0.0012 ppbV	
159) p-Dichlorobenzene	32.81	146	1088	0.0170 ppbV	92
163) o-Dichlorobenzene	33.63	146	1035	0.0167 ppbV	90
165) Indan	33.82	117	564	0.0065 ppbV #	53
166) Indene	34.06	115	784	0.0103 ppbV	71
167) m-Diethylbenzene	34.24	105	320	0.0031 ppbV #	50
168) p-Diethylbenzene	34.48	119	291	0.0033 ppbV #	1
171) n-Undecane	36.15	57	551	0.0049 ppbV #	76
172) 1,2,4-Trichlorobenzene	38.08	180	2265	0.0554 ppbV	92
173) Naphthalene	38.27	128	9404	0.0777 ppbV	96
174) Hexachloro-1,3-butadiene	39.01	225	601	0.0169 ppbV	92

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051006.D Vial: 7
Acq On : 10 May 2011 3:26 pm Operator: KRW
Sample : 11E0095-BLK1 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 10:33 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051012.D Vial: 13
Acq On : 10 May 2011 9:33 pm Operator: KRW
Sample : AUD0201-01,,,,;TCESL Inst : VMSC
Misc : 2.5604,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:01 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

DAH 5-20-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.01	81	250734	2.0000 ppbV	-0.04
82) Chlorobenzene-d5	26.53	117	191919	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	109243	2.0427 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 102.00%	
65) Fluorobenzene	19.39	96	239330	1.8550 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 93.00%	
113) Toluene-d8	23.30	98	212189	1.8777 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 94.00%	
115) 1,4-Dichlorobutane	28.40	90	34741	2.0716 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	29.48	95	151424	1.9795 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 99.00%	

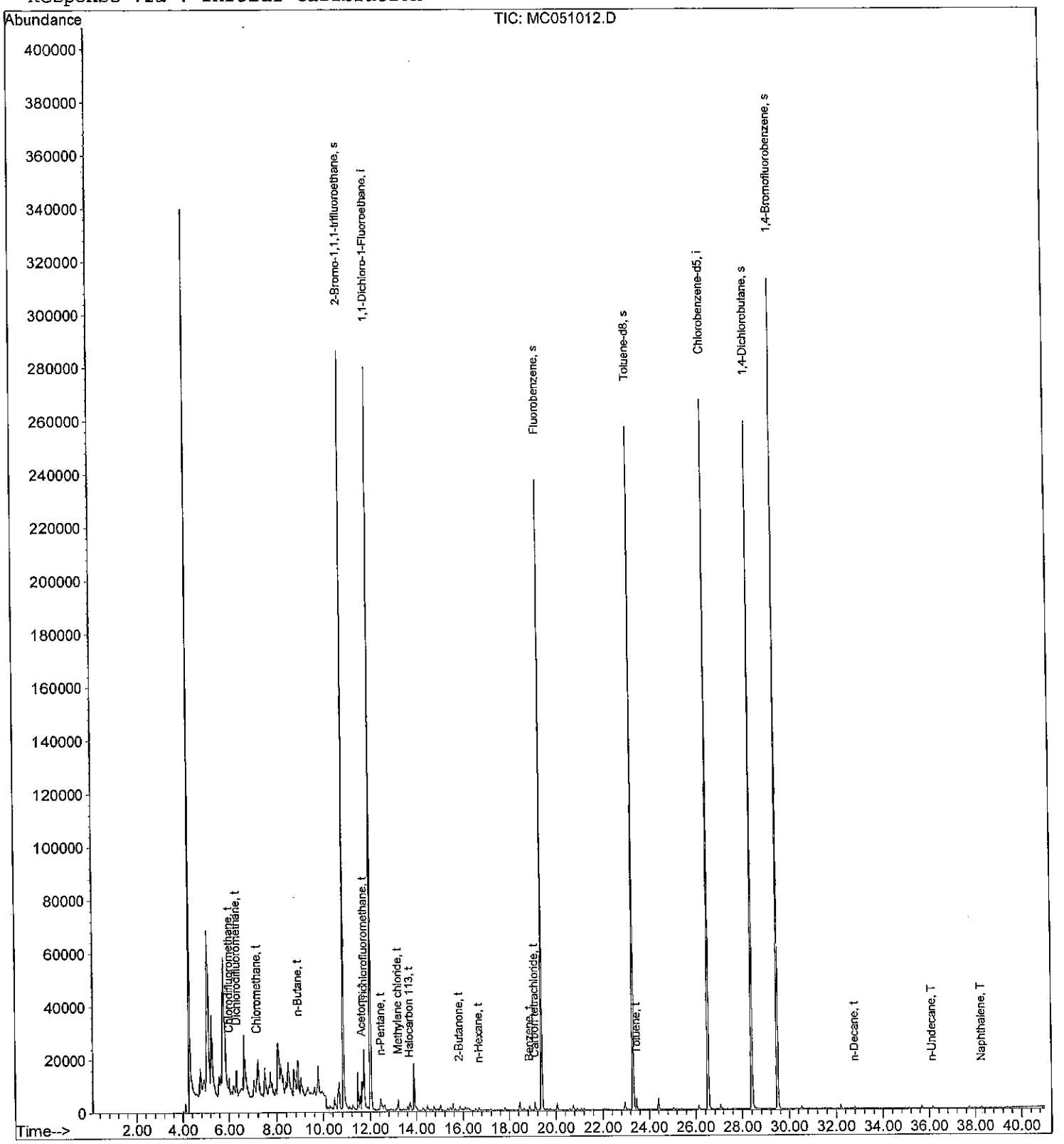
Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	7513	0.0820 ppbV	S	92
10) Dichlorodifluoromethane	6.34	85	13623	0.1134 ppbV	S	94
11) Chloromethane	7.15	50	6890	0.1536 ppbV	S	98
18) n-Butane	8.92	43	6251	0.0741 ppbV	S	92
32) Trichlorofluoromethane	11.74	101	6576	0.0600 ppbV	S	99
34) Acetone	11.63	43	38968m	0.6383 ppbV	S	
37) n-Pentane	12.47	43	3265	0.0418 ppbV	S	85
43) Methylene chloride	13.21	49	1276	0.0262 ppbV	S	73
47) Halocarbon 113	13.70	151	1077	0.0193 ppbV #	S	73
62) 2-Butanone	15.83	43	3565m	0.0461 ppbV	S	
71) n-Hexane	16.68	57	213	0.0038 ppbV #	S	65
84) Benzene	18.88	78	1408	0.0188 ppbV	S	79
85) Carbon tetrachloride	19.11	117	1297	0.0183 ppbV	S	97
114) Toluene	23.46	91	3681	0.0420 ppbV	S	93
158) n-Decane	32.79	57	288	0.0032 ppbV #	S	81
171) n-Undecane	36.14	57	370m	0.0040 ppbV	S	
173) Naphthalene	38.27	128	751	0.0077 ppbV	S	70

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051012.D Vial: 13
Acq On : 10 May 2011 9:33 pm Operator: KRW
Sample : AUD0201-01,,,,;TCESL Inst : VMSC
Misc : 2.5604,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:01 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051013.D Vial: 14
Acq On : 10 May 2011 10:36 pm Operator: KRW
Sample : AUD0201-02,,,,;TCESL Inst : VMSC
Misc : 2.4615,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 10:56 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

DAH 5-20-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	239753	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	185176	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	99514	1.9460 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 97.50%	
65) Fluorobenzene	19.39	96	225081	1.8245 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 91.00%	
113) Toluene-d8	23.30	98	205200	1.8820 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 94.00%	
115) 1,4-Dichlorobutane	28.41	90	33331	2.0599 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	29.49	95	147314	1.9959 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	

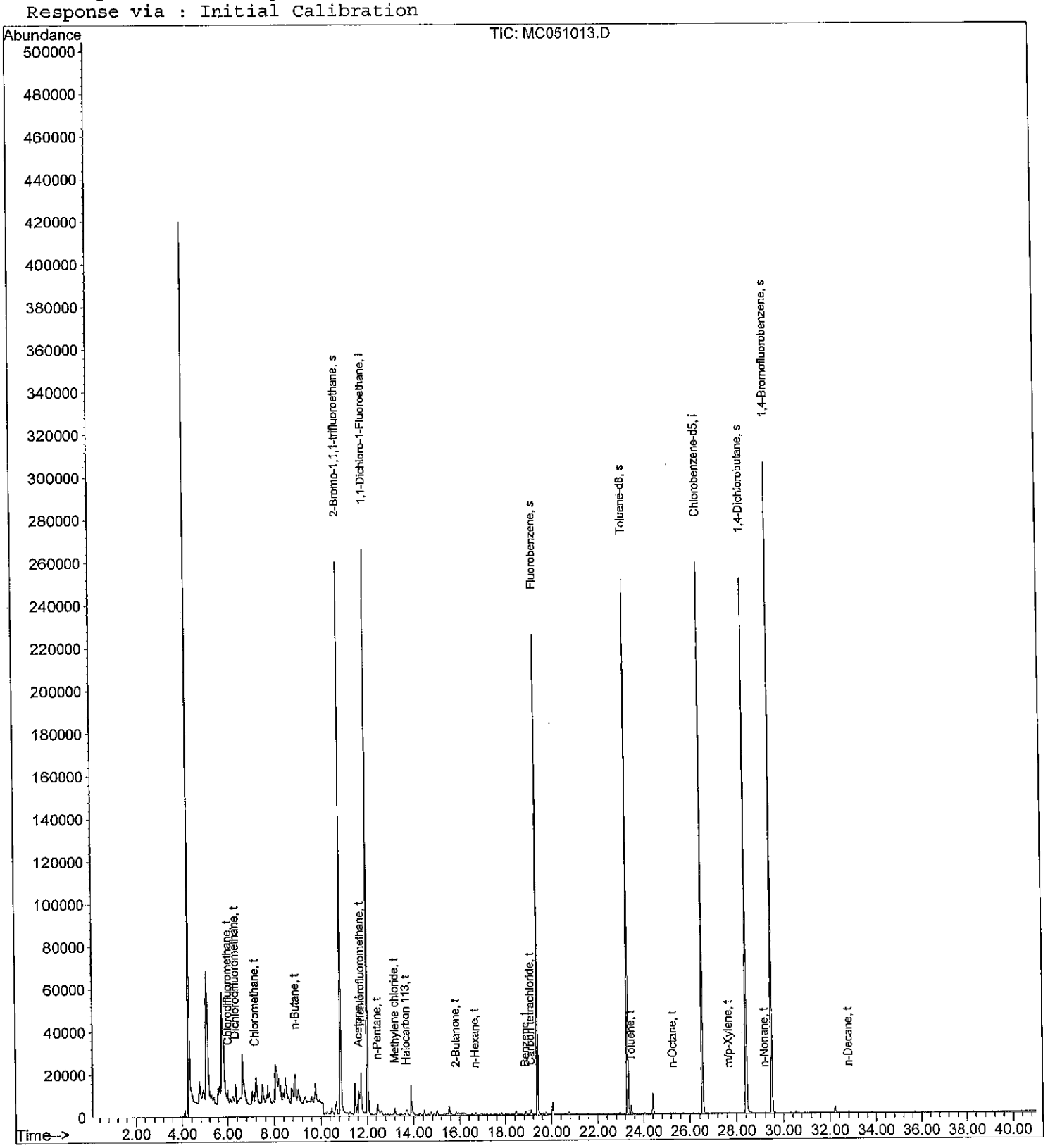
Target Compounds					Qvalue	
8) Chlorodifluoromethane	6.02	51	6913	0.0789 ppbV	S	92
10) Dichlorodifluoromethane	6.34	85	12603	0.1097 ppbV	S	95
11) Chloromethane	7.16	50	6736	0.1570 ppbV	S	94
18) n-Butane	8.92	43	6644	0.0823 ppbV	S	93
32) Trichlorofluoromethane	11.74	101	6355	0.0606 ppbV	S	92
34) Acetone	11.64	43	38744m	0.6637 ppbV	S	
37) n-Pentane	12.47	43	3446	0.0461 ppbV	S	92
43) Methylene chloride	13.21	49	915	0.0196 ppbV	S	78
47) Halocarbon 113	13.69	151	1015	0.0190 ppbV	S	84
62) 2-Butanone	15.84	43	4062m	0.0549 ppbV	S	
71) n-Hexane	16.68	57	305	0.0057 ppbV #	S	57
84) Benzene	18.87	78	1287	0.0178 ppbV	S	84
85) Carbon tetrachloride	19.10	117	1242	0.0182 ppbV #	S	70
114) Toluene	23.46	91	3574	0.0423 ppbV	S	95
125) n-Octane	25.28	43	142	0.0015 ppbV #	S	43
130) m/p-Xylene	27.67	91	341	0.0044 ppbV #	S	42
140) n-Nonane	29.18	43	179	0.0021 ppbV #	S	57
158) n-Decane	32.80	57	166m	0.0019 ppbV	S	

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051013.D Vial: 14
Acq On : 10 May 2011 10:36 pm Operator: KRW
Sample : AUD0201-02,,,,;TCESL Inst : VMSC
Misc : 2.4615,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 10:56 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051014.D Vial: 15
Acq On : 10 May 2011 11:38 pm Operator: KRW
Sample : AUD0201-03,,,,;TCESL Inst : VMSC
Misc : 2.4439,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 11:39 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5/18/11 rew

mm 5-20-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	234371	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	176385	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	101897	2.0383 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 102.00%	
65) Fluorobenzene	19.39	96	216746	1.7973 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 90.00%	
113) Toluene-d8	23.30	98	197506	1.9017 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 95.00%	
115) 1,4-Dichlorobutane	28.40	90	32577	2.1137 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.49	95	143373	2.0393 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	

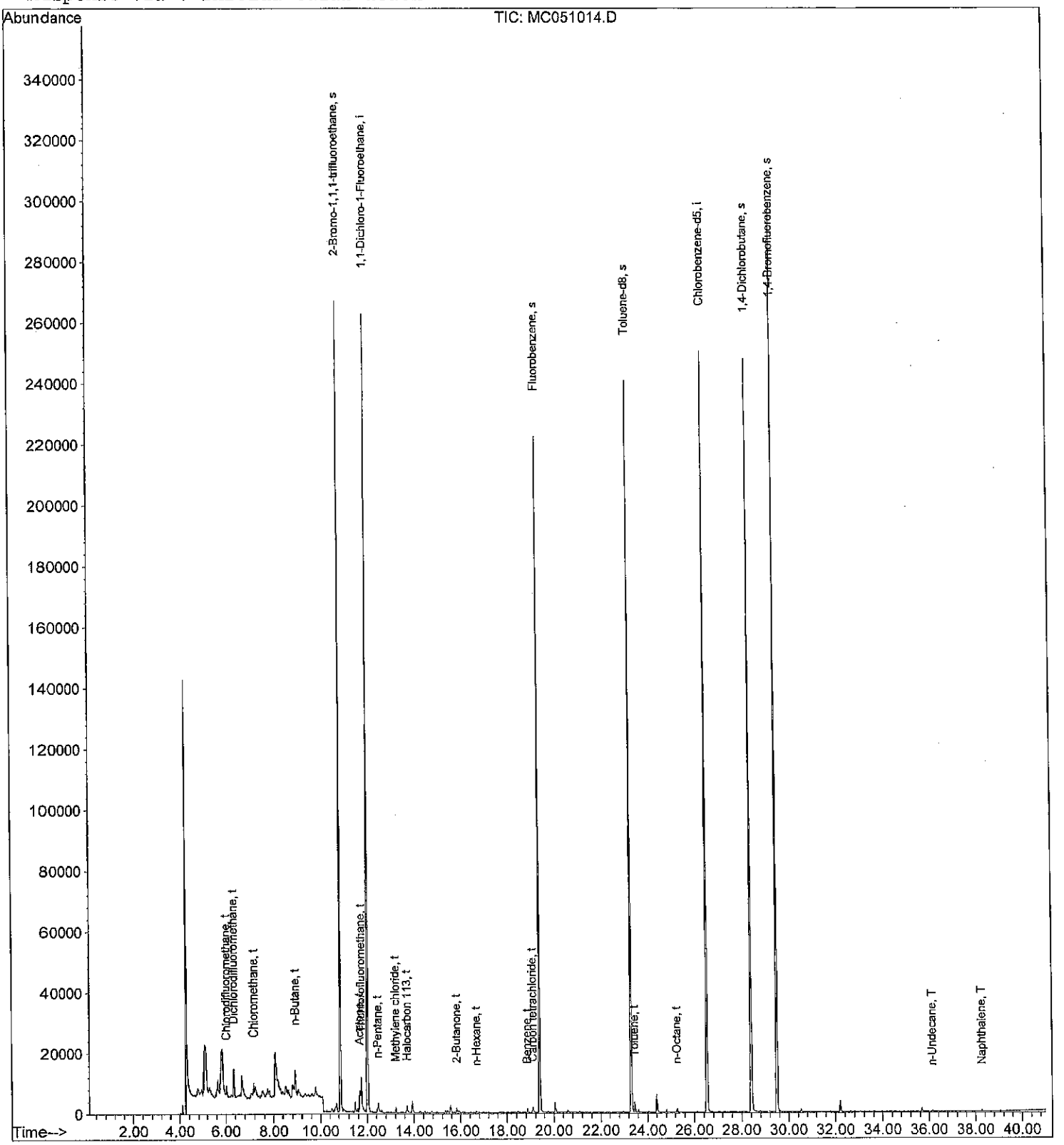
Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	4933	0.0576 ppbV	S	98
10) Dichlorodifluoromethane	6.33	85	13061	0.1163 ppbV	S	96
11) Chloromethane	7.16	50	5839	0.1392 ppbV	S	95
18) n-Butane	8.91	43	4815	0.0610 ppbV	S	88
32) Trichlorofluoromethane	11.74	101	5955	0.0581 ppbV	S	95
34) Acetone	11.67	43	28753m	0.5038 ppbV	S	
37) n-Pentane	12.47	43	3164	0.0433 ppbV	S	90
43) Methylene chloride	13.21	49	811	0.0178 ppbV #	S	64
47) Halocarbon 113	13.71	151	963	0.0185 ppbV	S	79
62) 2-Butanone	15.83	43	3850m	0.0532 ppbV	S	
71) n-Hexane	16.69	57	241	0.0046 ppbV #	S	57
84) Benzene	18.87	78	1198	0.0174 ppbV	S	81
85) Carbon tetrachloride	19.11	117	1312	0.0202 ppbV	S	87
114) Toluene	23.45	91	3445	0.0428 ppbV	S	94
125) n-Octane	25.27	43	808m	0.0090 ppbV	S	
171) n-Undecane	36.14	57	115	0.0014 ppbV #	S	67
173) Naphthalene	38.26	128	639	0.0071 ppbV	S	65

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051014.D Vial: 15
Acq On : 10 May 2011 11:38 pm Operator: KRW
Sample : AUD0201-03,,,,;TCESL Inst : VMSC
Misc : 2.4439,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 11:39 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051015.D Vial: 16
Acq On : 11 May 2011 12:41 am Operator: KRW
Sample : AUD0201-04,,,,;TCESL Inst : VMSC
Misc : 2.5417,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 10:58 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5-20-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	228497	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	168818	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	99740	2.0465 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 102.50%	
65) Fluorobenzene	19.39	96	211330	1.7974 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 90.00%	
113) Toluene-d8	23.30	98	191043	1.9220 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 96.00%	
115) 1,4-Dichlorobutane	28.41	90	31233	2.1173 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
141) 1,4-Bromofluorobenzene	29.49	95	136059	2.0220 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	

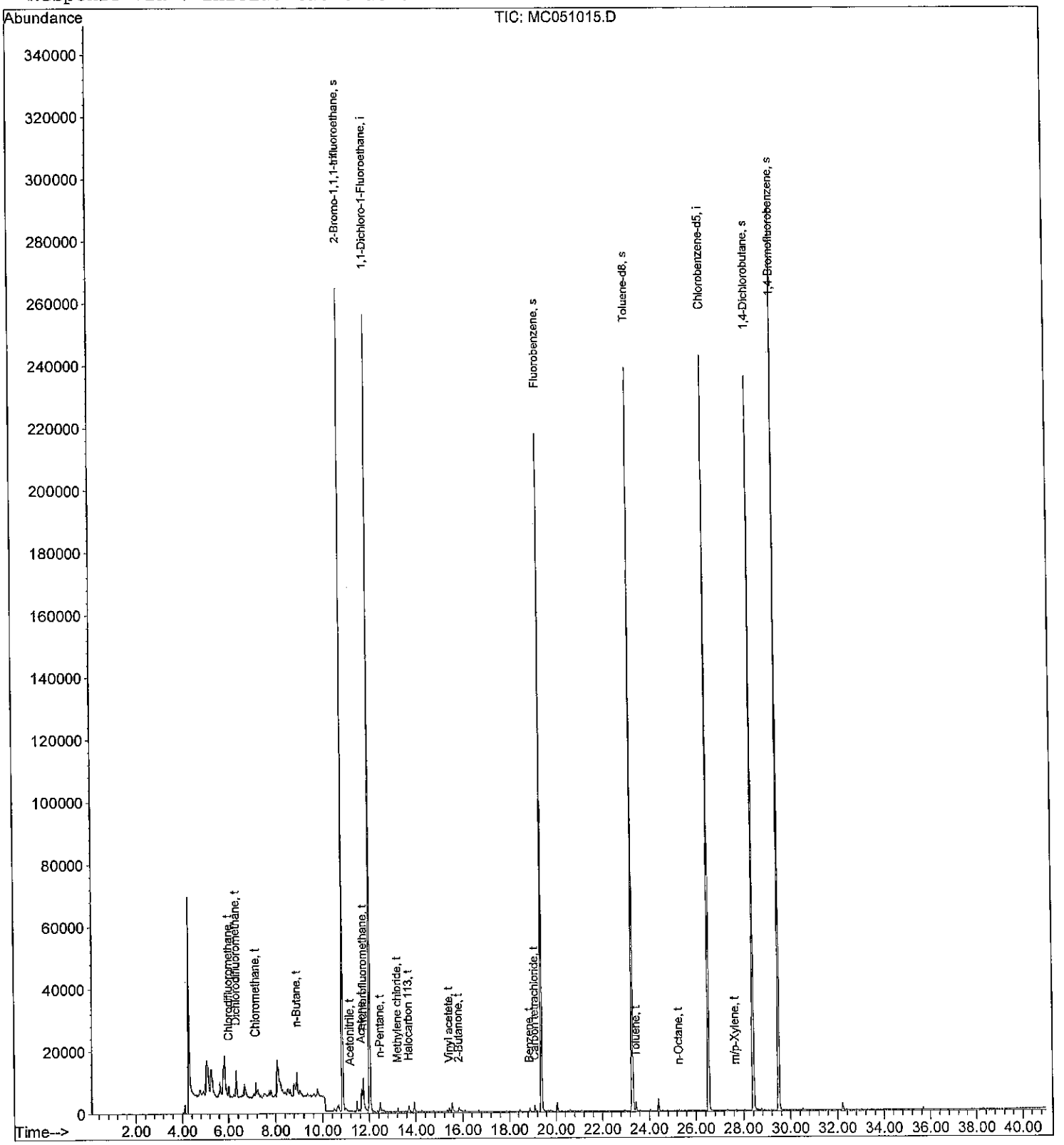
Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	4685	0.0561 ppbV	S	93
10) Dichlorodifluoromethane	6.34	85	12227	0.1117 ppbV	S	96
11) Chloromethane	7.15	50	5417	0.1325 ppbV	S	95
18) n-Butane	8.92	43	4463	0.0580 ppbV	S	82
29) Acetonitrile	11.18	41	536m	0.0200 ppbV	S	
32) Trichlorofluoromethane	11.74	101	5538	0.0554 ppbV	S	95
34) Acetone	11.67	43	28396m	0.5104 ppbV	S	
37) n-Pentane	12.47	43	2347	0.0330 ppbV	S	91
43) Methylene chloride	13.22	49	770	0.0173 ppbV #	S	65
47) Halocarbon 113	13.69	151	771	0.0152 ppbV #	S	75
58) Vinyl acetate	15.42	43	2208	0.0254 ppbV	S	84
62) 2-Butanone	15.84	43	3630m	0.0515 ppbV	S	
84) Benzene	18.87	78	1033	0.0157 ppbV	S	66
85) Carbon tetrachloride	19.10	117	1250	0.0201 ppbV	S	89
114) Toluene	23.46	91	2811	0.0365 ppbV	S	97
125) n-Octane	25.28	43	205	0.0024 ppbV #	S	51
130) m/p-Xylene	27.66	91	213m	0.0030 ppbV	S	

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051015.D Vial: 16
Acq On : 11 May 2011 12:41 am Operator: KRW
Sample : AUD0201-04,,,,;TCESL Inst : VMSC
Misc : 2.5417,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 10:58 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051016.D Vial: 17
Acq On : 11 May 2011 1:43 am Operator: KRW
Sample : AUD0201-05,,,,;TCESL Inst : VMSC
Misc : 2.6476,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:19 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	221891	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	166580	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	103596	2.1889 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 109.50%	
65) Fluorobenzene	19.39	96	204149	1.7880 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 89.50%	
113) Toluene-d8	23.30	98	187152	1.9081 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 95.50%	
115) 1,4-Dichlorobutane	28.40	90	30746	2.1123 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.48	95	133996	2.0181 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 101.00%	

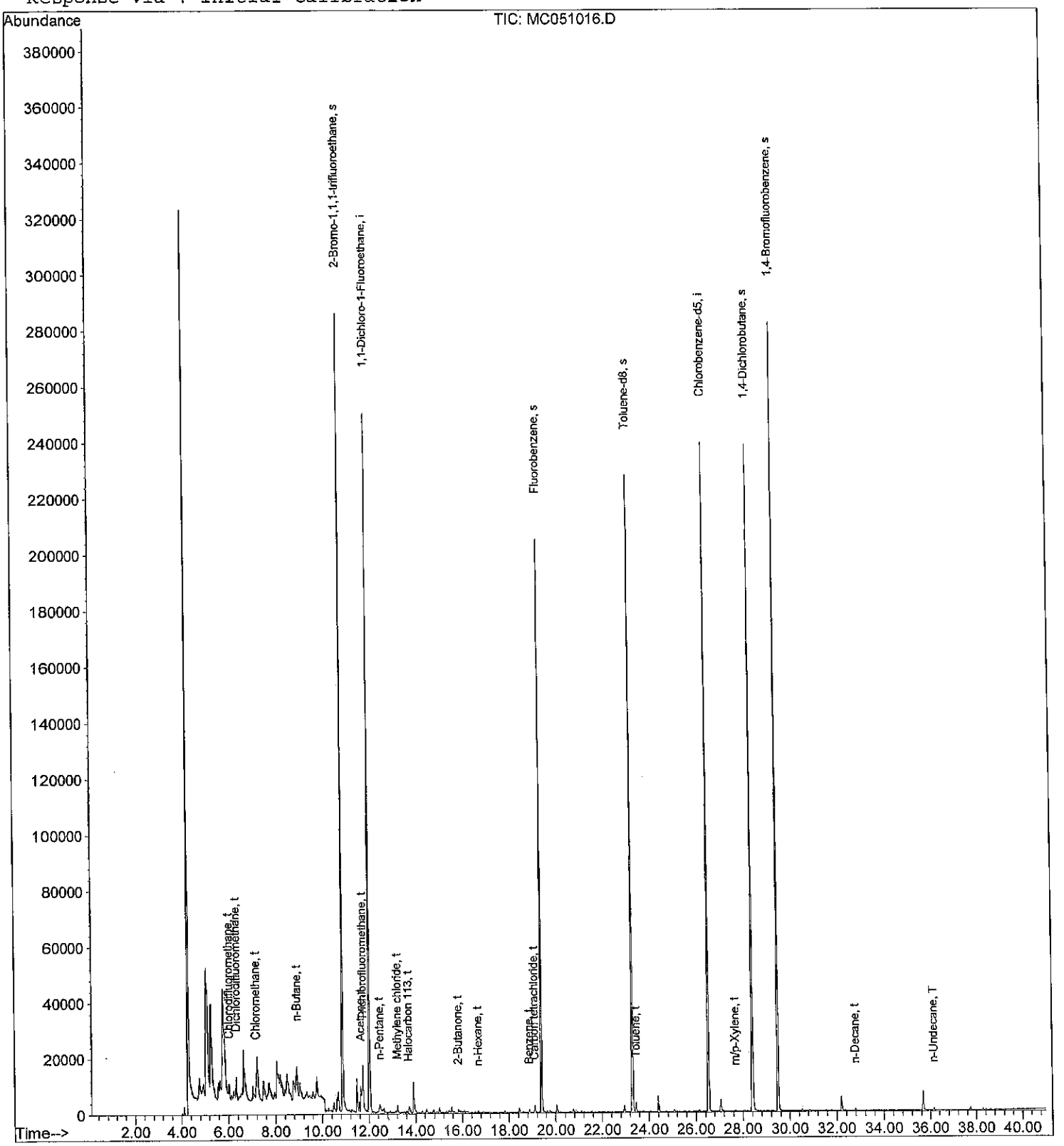
Target Compounds						Qvalue
8) Chlorodifluoromethane	6.03	51	6602	0.0814 ppbV	S	92
10) Dichlorodifluoromethane	6.34	85	11274	0.1061 ppbV	S	95
11) Chloromethane	7.16	50	5606	0.1412 ppbV	S	98
18) n-Butane	8.92	43	5405	0.0724 ppbV	S	91
32) Trichlorofluoromethane	11.74	101	5974m	0.0616 ppbV	S	
34) Acetone	11.64	43	33241m	0.6153 ppbV	S	
37) n-Pentane	12.48	43	2729	0.0395 ppbV	S	88
43) Methylene chloride	13.22	49	865	0.0200 ppbV #	S	64
47) Halocarbon 113	13.70	151	766	0.0155 ppbV #	S	65
62) 2-Butanone	15.84	43	3262m	0.0476 ppbV	S	
71) n-Hexane	16.68	57	120	0.0024 ppbV #	S	33
84) Benzene	18.88	78	1112	0.0171 ppbV	S	86
85) Carbon tetrachloride	19.11	117	1145	0.0186 ppbV	S	80
114) Toluene	23.46	91	3038	0.0400 ppbV	S	95
130) m/p-Xylene	27.68	91	293m	0.0042 ppbV	S	
158) n-Decane	32.78	57	187m	0.0024 ppbV	S	
171) n-Undecane	36.15	57	338m	0.0043 ppbV	S	

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051016.D Vial: 17
Acq On : 11 May 2011 1:43 am Operator: KRW
Sample : AUD0201-05,,,,;TCESL Inst : VMSC
Misc : 2.6476,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:19 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051017.D Vial: 18
Acq On : 11 May 2011 2:45 am Operator: KRW
Sample : 11E0095-DUP1,,,,;TCESL Inst : VMSC
Misc : 2.6476,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:20 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5-20-11

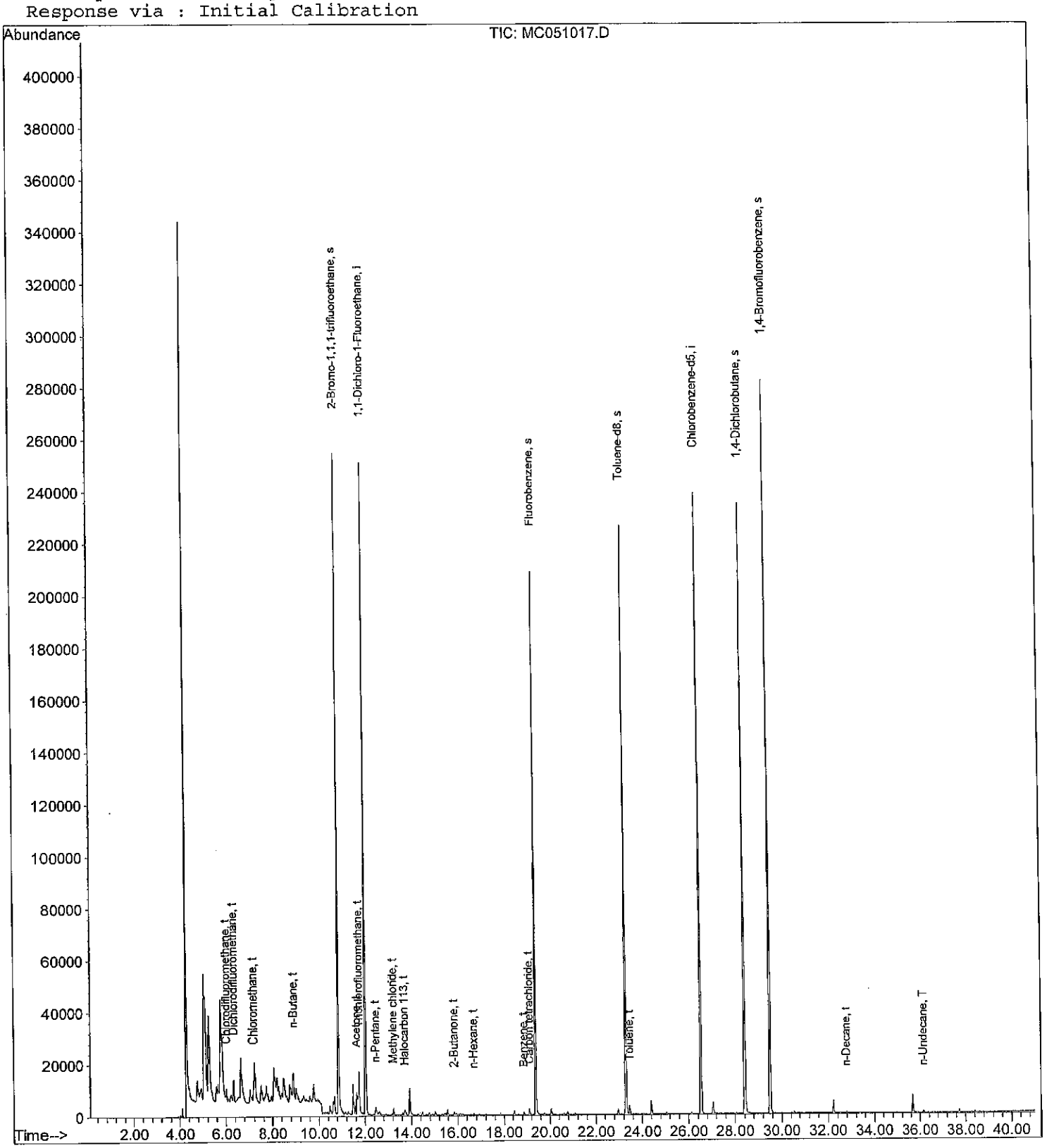
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	221843	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	166276	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	95766	2.0239 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.39	96	203886	1.7861 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 89.50%	
113) Toluene-d8	23.30	98	185526	1.8950 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 94.50%	
115) 1,4-Dichlorobutane	28.40	90	30591	2.1055 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.48	95	133651	2.0166 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 101.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	6461	0.0797 ppbV	S	95
10) Dichlorodifluoromethane	6.33	85	11381	0.1071 ppbV	S	97
11) Chloromethane	7.15	50	5469	0.1378 ppbV	S	97
18) n-Butane	8.91	43	5700	0.0763 ppbV	S	94
32) Trichlorofluoromethane	11.74	101	5481m	0.0565 ppbV	S	
34) Acetone	11.64	43	32308m	0.5981 ppbV	S	
37) n-Pentane	12.47	43	2141	0.0310 ppbV	S	86
43) Methylene chloride	13.22	49	795	0.0184 ppbV	S	79
47) Halocarbon 113	13.71	151	763	0.0155 ppbV	S	78
62) 2-Butanone	15.84	43	3052m	0.0446 ppbV	S	
71) n-Hexane	16.69	57	108m	0.0022 ppbV	S	
84) Benzene	18.87	78	1060	0.0163 ppbV	S	78
85) Carbon tetrachloride	19.11	117	1089	0.0178 ppbV #	S	88
114) Toluene	23.47	91	3175	0.0418 ppbV	S	87
158) n-Decane	32.78	57	266m	0.0035 ppbV	S	
171) n-Undecane	36.14	57	277m	0.0035 ppbV	S	

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051017.D Vial: 18
Acq On : 11 May 2011 2:45 am Operator: KRW
Sample : 11E0095-DUP1,,,,;TCESL Inst : VMSC
Misc : 2.6476,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:20 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051018.D Vial: 19
Acq On : 11 May 2011 3:47 am Operator: KRW
Sample : AUD0201-06,,,,;TCESL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 12:04 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5/18/11 ew

MW 5-20-11

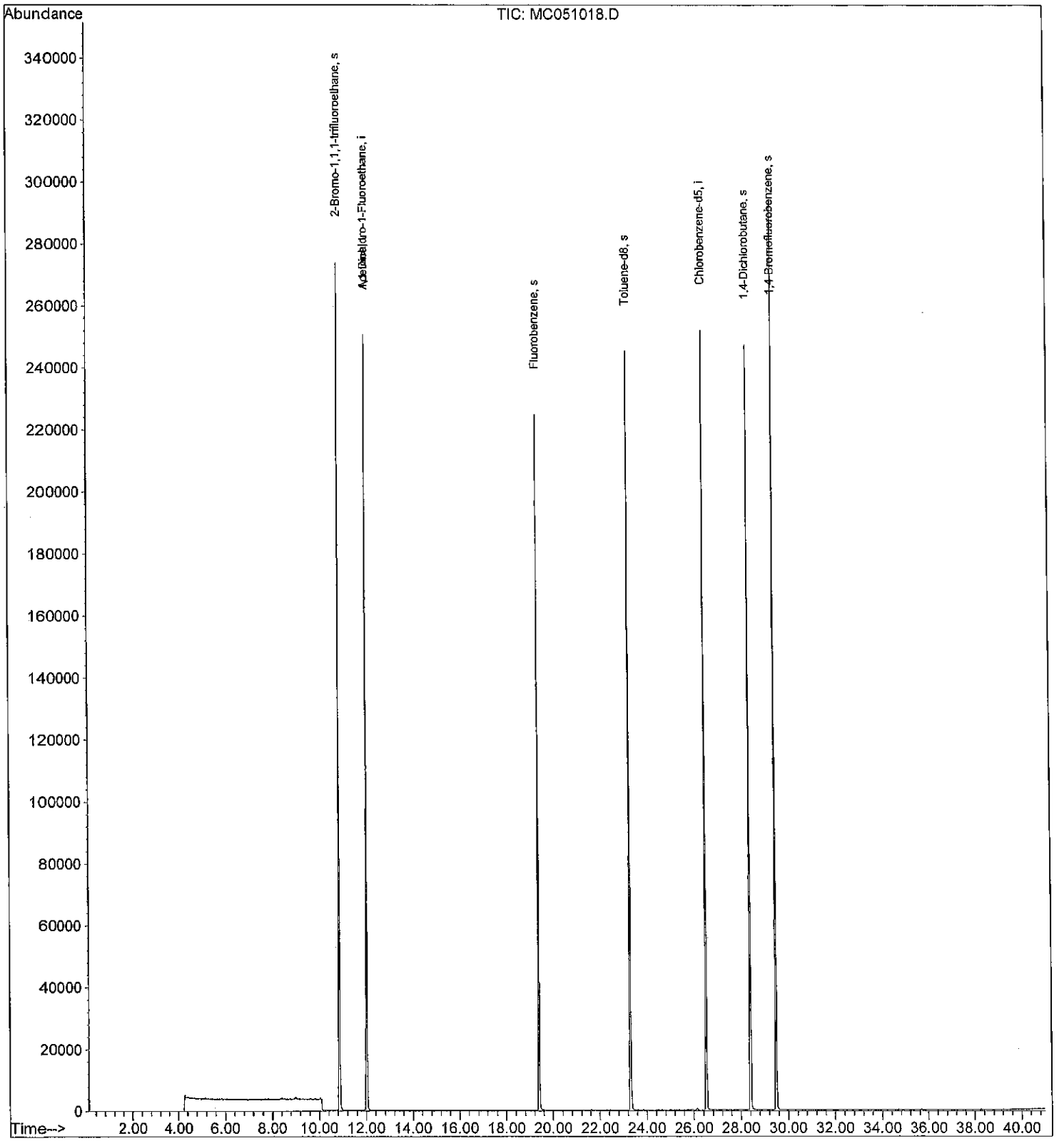
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	224342	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	172436	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	104758	2.1893 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 109.50%	
65) Fluorobenzene	19.39	96	216211	1.8730 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 93.50%	
113) Toluene-d8	23.30	98	197381	1.9441 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 97.00%	
115) 1,4-Dichlorobutane	28.40	90	31436	2.0864 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
141) 1,4-Bromofluorobenzene	29.48	95	136968	1.9928 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 99.50%	
Target Compounds					Qvalue
34) Acetone	12.02	43	2870m	0.0525 ppbV	S

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051018.D Vial: 19
Acq On : 11 May 2011 3:47 am Operator: KRW
Sample : AUD0201-06,,,,;TCESL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 12:04 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051019.D Vial: 20
Acq On : 11 May 2011 4:49 am Operator: KRW
Sample : AUD0201-07,,,,;TCESL Inst : VMSC
Misc : 2.6494,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:09 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

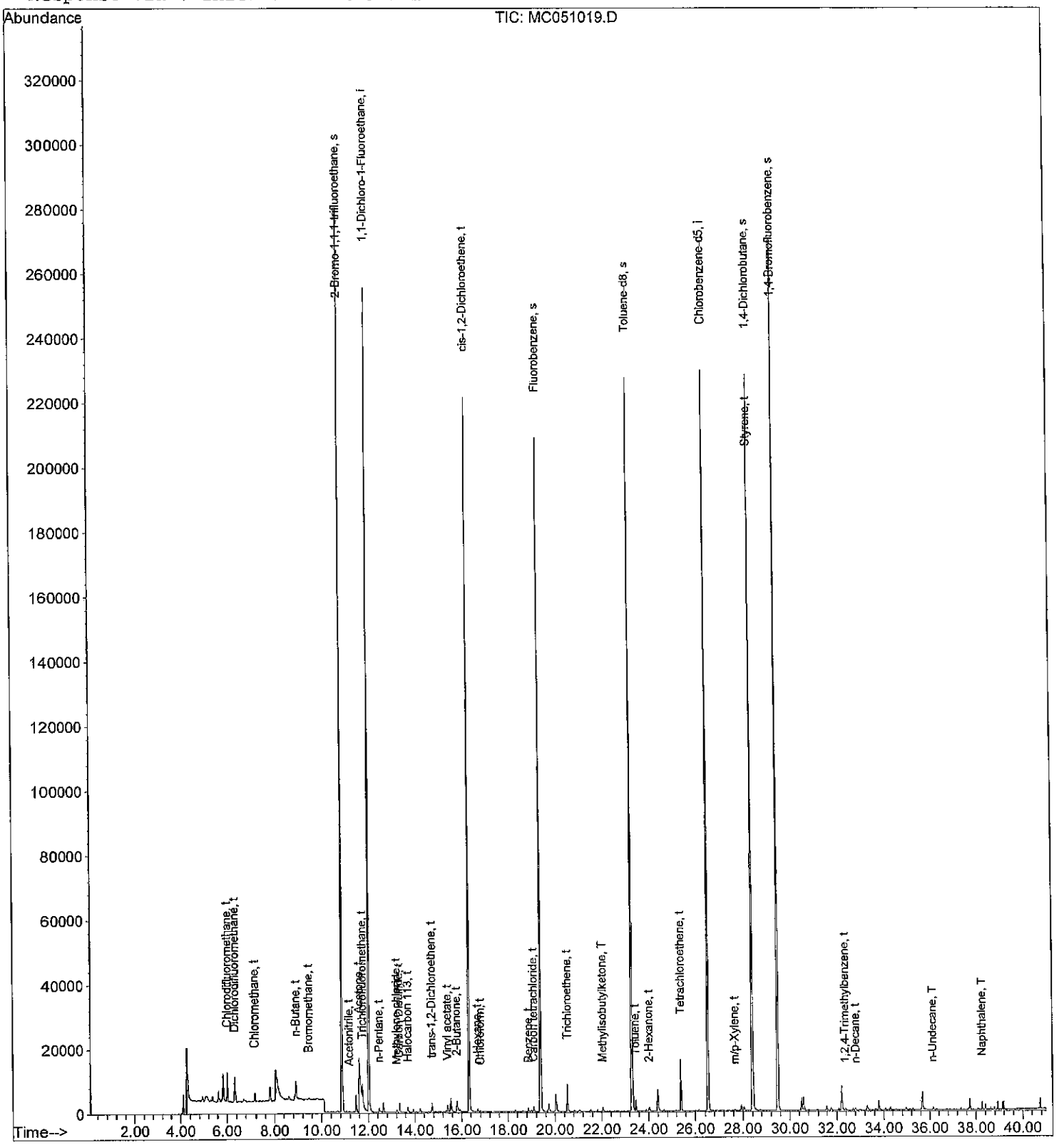
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	224776	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	160794	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	103751	2.1640 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 108.00%	
65) Fluorobenzene	19.39	96	200520	1.7337 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 86.50%	
113) Toluene-d8	23.30	98	182493	1.9276 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 96.50%	
115) 1,4-Dichlorobutane	28.40	90	29338	2.0881 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
141) 1,4-Bromofluorobenzene	29.48	95	127221	1.9850 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 99.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	11767	0.1432 ppbV	S	95
10) Dichlorodifluoromethane	6.33	85	10447	0.0970 ppbV	S	92
11) Chloromethane	7.15	50	3026	0.0752 ppbV	S	93
18) n-Butane	8.92	43	3936	0.0520 ppbV	S	80
23) Bromomethane	9.45	94	211	0.0071 ppbV	S	81
29) Acetonitrile	11.18	41	272m	0.0103 ppbV	S	
32) Trichlorofluoromethane	11.74	101	4952	0.0504 ppbV	S	94
34) Acetone	11.60	43	66013m	1.2061 ppbV	S	
37) n-Pentane	12.47	43	1101	0.0157 ppbV #	S	82
43) Methylene chloride	13.21	49	674	0.0154 ppbV #	S	75
45) Carbon Disulfide	13.34	76	4417	0.0598 ppbV	S	100
47) Halocarbon 113	13.69	151	553	0.0111 ppbV #	S	66
50) trans-1,2-Dichloroethene	14.74	61	1418	0.0331 ppbV	S	84
58) Vinyl acetate	15.41	43	4280	0.0501 ppbV	S	92
62) 2-Butanone	15.80	43	9383m	0.1353 ppbV	S	
68) cis-1,2-Dichloroethene	16.32	61	155783	3.9106 ppbV	S	89
71) n-Hexane	16.69	57	291m	0.0058 ppbV	S	
72) Chloroform	16.79	83	202	0.0037 ppbV #	S	32
84) Benzene	18.89	78	1246	0.0199 ppbV	S	78
85) Carbon tetrachloride	19.11	117	1163	0.0196 ppbV #	S	76
94) Trichloroethene	20.53	130	3269	0.1103 ppbV	S	92
105) Methylisobutylketone	22.05	43	1701	0.0244 ppbV	S	74
114) Toluene	23.45	91	3110	0.0424 ppbV	S	88
116) 2-Hexanone	24.03	43	1789	0.0259 ppbV	S	66
126) Tetrachloroethene	25.39	164	4394	0.1708 ppbV	S	95
130) m/p-Xylene	27.67	91	201	0.0030 ppbV	S	76
134) Styrene	28.39	104	640	0.0149 ppbV #	S	1
153) 1,2,4-Trimethylbenzene	32.36	105	593	0.0096 ppbV	S	68
158) n-Decane	32.81	57	282m	0.0038 ppbV	S	
171) n-Undecane	36.14	57	319	0.0042 ppbV #	S	46
173) Naphthalene	38.27	128	2752	0.0336 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051019.D Vial: 20
Acq On : 11 May 2011 4:49 am Operator: KRW
Sample : AUD0201-07,,,,;TCESL Inst : VMSC
Misc : 2.6494,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:09 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051021.D Vial: 22
Acq On : 11 May 2011 6:54 am Operator: KRW
Sample : AUD0201-09,,,,;TCESL Inst : VMSC
Misc : 2.6460,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:12 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

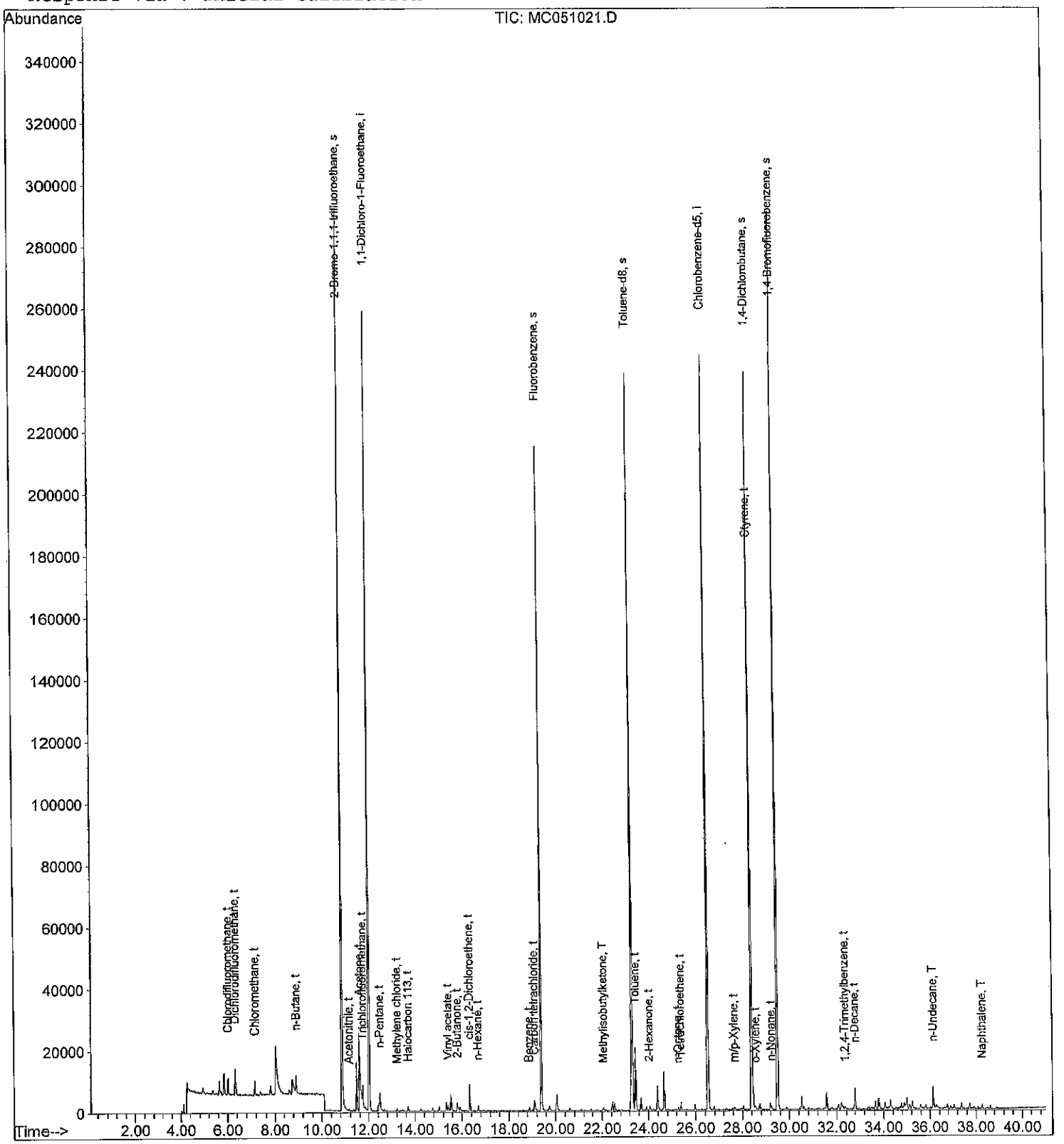
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	230285	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	171796	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	109781	2.2350 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 112.00%	
65) Fluorobenzene	19.39	96	209482	1.7679 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 88.50%	
113) Toluene-d8	23.30	98	198466	1.9620 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.40	90	31207	2.0789 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.48	95	137678	2.0106 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 100.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	7308	0.0868 ppbV	S	91
10) Dichlorodifluoromethane	6.33	85	12126	0.1099 ppbV	S	96
11) Chloromethane	7.14	50	5121	0.1243 ppbV	S	95
18) n-Butane	8.92	43	4824	0.0622 ppbV	S	89
29) Acetonitrile	11.14	41	558m	0.0207 ppbV	S	
32) Trichlorofluoromethane	11.74	101	5577	0.0554 ppbV	S	93
34) Acetone	11.60	43	69427m	1.2382 ppbV	S	
37) n-Pentane	12.48	43	5693	0.0794 ppbV	S	87
43) Methylene chloride	13.22	49	783	0.0175 ppbV #	S	55
47) Halocarbon 113	13.71	151	623	0.0122 ppbV #	S	72
58) Vinyl acetate	15.42	43	3368	0.0385 ppbV	S	80
62) 2-Butanone	15.81	43	7063m	0.0994 ppbV	S	
68) cis-1,2-Dichloroethene	16.33	61	6084	0.1491 ppbV	S	88
71) n-Hexane	16.69	57	696	0.0136 ppbV #	S	69
84) Benzene	18.88	78	1295	0.0193 ppbV	S	67
85) Carbon tetrachloride	19.10	117	1106	0.0175 ppbV	S	95
105) Methylisobutylketone	22.07	43	1564	0.0210 ppbV #	S	55
114) Toluene	23.47	91	5339	0.0681 ppbV #	S	80
116) 2-Hexanone	24.04	43	1329	0.0180 ppbV	S	88
125) n-Octane	25.29	43	529m	0.0061 ppbV	S	
126) Tetrachloroethene	25.39	164	674	0.0245 ppbV #	S	82
130) m/p-Xylene	27.67	91	1103	0.0153 ppbV	S	60
134) Styrene	28.38	104	1917	0.0418 ppbV #	S	1
136) o-Xylene	28.58	91	522	0.0075 ppbV #	S	43
140) n-Nonane	29.24	43	343	0.0044 ppbV	S	63
153) 1,2,4-Trimethylbenzene	32.35	105	861	0.0130 ppbV	S	84
158) n-Decane	32.79	57	3082	0.0388 ppbV #	S	81
171) n-Undecane	36.14	57	3227	0.0394 ppbV #	S	82
173) Naphthalene	38.26	128	1736	0.0198 ppbV	S	89

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051021.D Vial: 22
Acq On : 11 May 2011 6:54 am Operator: KRW
Sample : AUD0201-09,,,,;TCESL Inst : VMSC
Misc : 2.6460,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:12 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051022.D Vial: 23
Acq On : 11 May 2011 7:56 am Operator: KRW
Sample : AUD0201-10,,,,;TCESL Inst : VMSC
Misc : 2.6017,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 12:19 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5/18/11 rew

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	224676	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	171409	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	105911	2.2101 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 110.50%	
65) Fluorobenzene	19.39	96	209375	1.8111 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 90.50%	
113) Toluene-d8	23.30	98	187442	1.8572 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 93.00%	
115) 1,4-Dichlorobutane	28.40	90	30205	2.0167 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	29.48	95	133521	1.9543 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 97.50%	

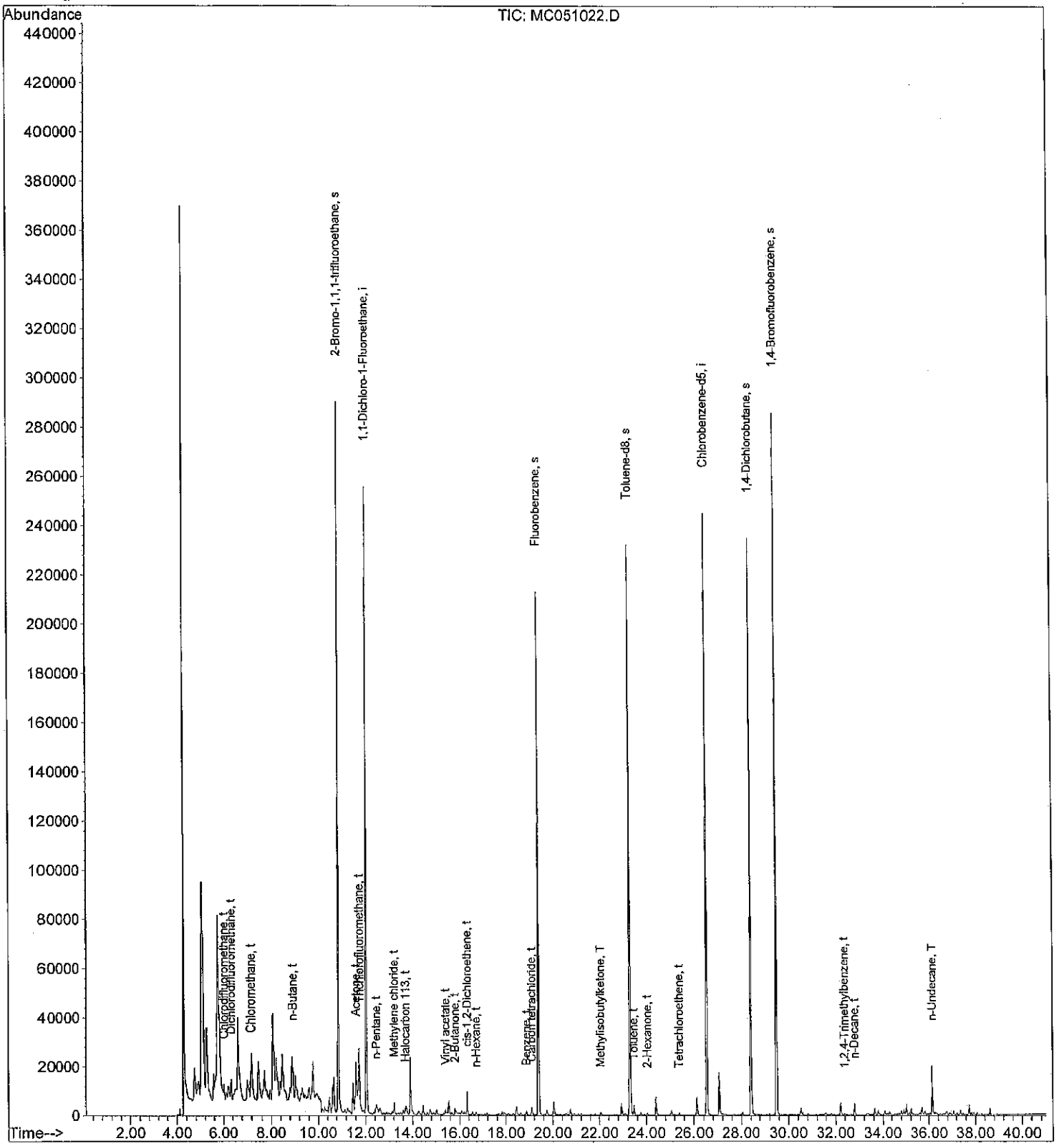
Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	6399	0.0779 ppbV	S	92
10) Dichlorodifluoromethane	6.34	85	11388	0.1058 ppbV	S	97
11) Chloromethane	7.15	50	6249	0.1554 ppbV	S	93
18) n-Butane	8.91	43	5656	0.0748 ppbV	S	86
32) Trichlorofluoromethane	11.74	101	6134	0.0625 ppbV	S	94
34) Acetone	11.59	43	63976m	1.1694 ppbV	S	
37) n-Pentane	12.46	43	2953	0.0422 ppbV	S	83
43) Methylene chloride	13.21	49	1038	0.0238 ppbV #	S	64
47) Halocarbon 113	13.70	151	1052	0.0210 ppbV #	S	79
58) Vinyl acetate	15.41	43	3212	0.0376 ppbV	S	82
62) 2-Butanone	15.80	43	7002m	0.1010 ppbV	S	
68) cis-1,2-Dichloroethene	16.32	61	6765	0.1699 ppbV	S	90
71) n-Hexane	16.69	57	399	0.0080 ppbV #	S	50
84) Benzene	18.87	78	1502	0.0225 ppbV	S	66
85) Carbon tetrachloride	19.11	117	1219	0.0193 ppbV	S	90
105) Methylisobutylketone	22.04	43	1454	0.0196 ppbV #	S	69
114) Toluene	23.45	91	3960	0.0506 ppbV	S	93
116) 2-Hexanone	24.04	43	1128m	0.0153 ppbV	S	
126) Tetrachloroethene	25.39	164	70	0.0026 ppbV #	S	28
153) 1,2,4-Trimethylbenzene	32.37	105	500	0.0076 ppbV #	S	45
158) n-Decane	32.79	57	1972	0.0249 ppbV #	S	54
171) n-Undecane	36.14	57	8403	0.1028 ppbV #	S	67

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051022.D Vial: 23
Acq On : 11 May 2011 7:56 am Operator: KRW
Sample : AUD0201-10,,,,;TCESL Inst : VMSC
Misc : 2.6017,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 18 12:19 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051023.D Vial: 24
Acq On : 11 May 2011 8:58 am Operator: KRW
Sample : 11E0095-DUP2,,,,;TCESL Inst : VMSC
Misc : 2.6017,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:17 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5-20-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	216508	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	163800	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	95376	2.0653 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	19.40	96	198680	1.7834 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 89.00%	
113) Toluene-d8	23.30	98	179803	1.8643 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 93.00%	
115) 1,4-Dichlorobutane	28.41	90	28445	1.9874 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
141) 1,4-Bromofluorobenzene	29.49	95	127882	1.9587 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

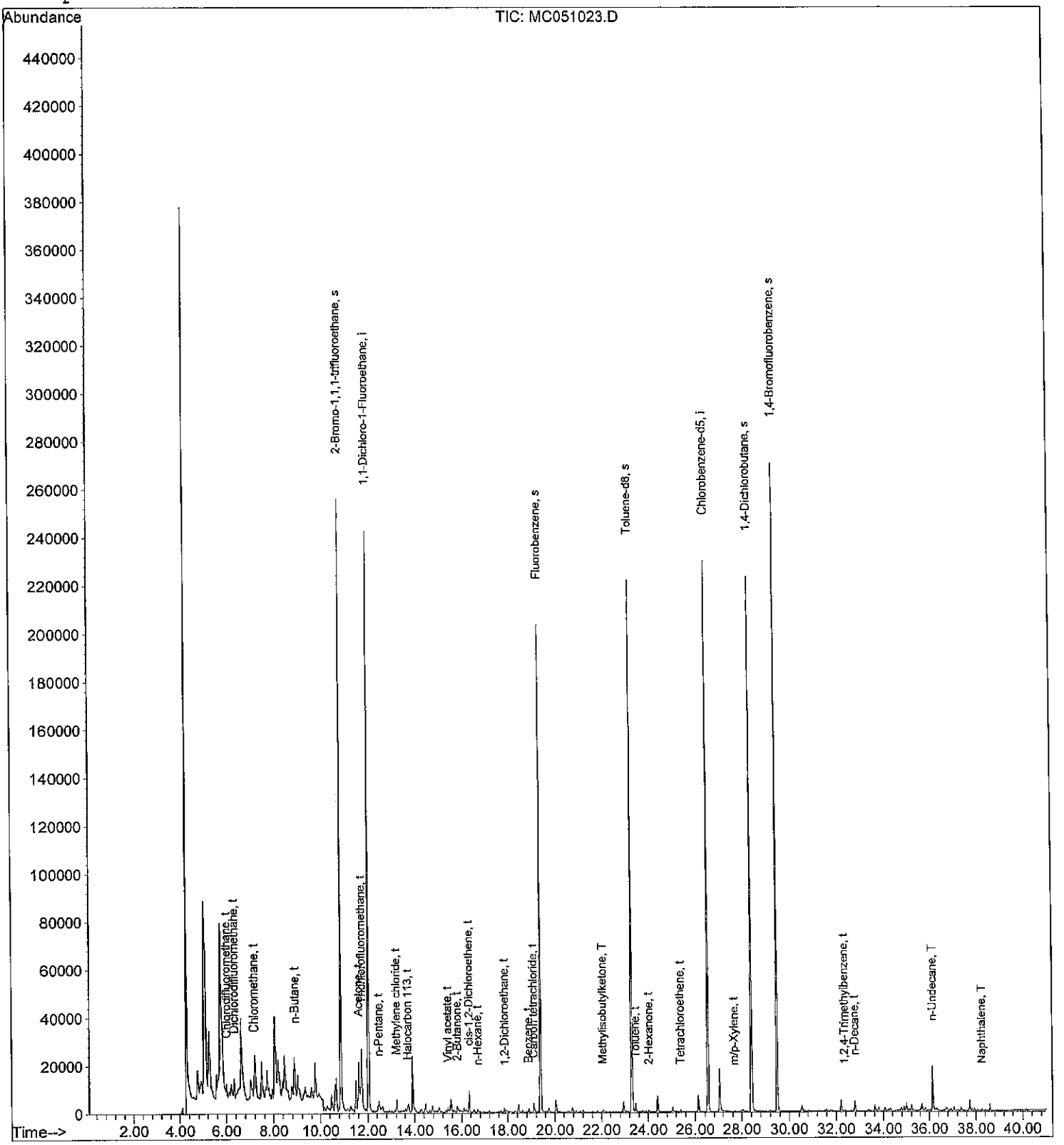
Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	6952	0.0878 ppbV	S	91
10) Dichlorodifluoromethane	6.34	85	11316	0.1091 ppbV	S	97
11) Chloromethane	7.15	50	5963	0.1539 ppbV	S	99
18) n-Butane	8.92	43	5556	0.0763 ppbV	S	85
32) Trichlorofluoromethane	11.74	101	6084	0.0643 ppbV	S	96
34) Acetone	11.60	43	61254m	1.1619 ppbV	S	
37) n-Pentane	12.47	43	3034	0.0450 ppbV	S	93
43) Methylene chloride	13.22	49	1074	0.0255 ppbV	S	69
47) Halocarbon 113	13.71	151	1102	0.0229 ppbV	S	97
58) Vinyl acetate	15.42	43	3301	0.0401 ppbV	S	92
62) 2-Butanone	15.81	43	6574m	0.0984 ppbV	S	
68) cis-1,2-Dichloroethene	16.33	61	6535	0.1703 ppbV	S	83
71) n-Hexane	16.71	57	408	0.0085 ppbV #	S	63
79) 1,2-Dichloroethane	17.86	62	143	0.0033 ppbV #	S	46
84) Benzene	18.89	78	1497	0.0234 ppbV	S	85
85) Carbon tetrachloride	19.11	117	1109	0.0184 ppbV	S	89
105) Methylisobutylketone	22.06	43	1532	0.0216 ppbV	S	72
114) Toluene	23.47	91	3777	0.0505 ppbV	S	82
116) 2-Hexanone	24.05	43	906	0.0129 ppbV	S	65
126) Tetrachloroethene	25.40	164	70m	0.0027 ppbV	S	
130) m/p-Xylene	27.68	91	149m	0.0022 ppbV	S	
153) 1,2,4-Trimethylbenzene	32.36	105	497	0.0079 ppbV	S	82
158) n-Decane	32.79	57	2007	0.0265 ppbV #	S	76
171) n-Undecane	36.14	57	8140	0.1042 ppbV #	S	72
173) Naphthalene	38.27	128	734	0.0088 ppbV	S	70

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110510\MC051023.D Vial: 24
Acq On : 11 May 2011 8:58 am Operator: KRW
Sample : 11E0095-DUP2,,,,;TCESL Inst : VMSC
Misc : 2.6017,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 20 11:17 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



INSTRUMENT VMSC ANALYST / DATE: LW 5/11/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: LIE0119

DAILY CHECK —	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL —	FILAMENT CHANGE NO	OTHER —	
NO MAINTENANCE REQUIRED: —			RETURNED TO SERVICE: —	

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, condition of septa, etc. Glass insert, septa, column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:
Tune File: C100904.u Elect Mult. 1412 volts Sampling Rate 1 6 Scan Range 1 23.0-27.0
Sampling Rate 2 4 Scan Range 2 29.0-175 Sampling Rate 3 3 Scan Range 3 33-275
Tuning Performance (circle one): BFB Autotune Other Interface (circle one): Direct Jet Separator Other

GC PROGRAM:
GC Meth. C4HV501.M Initial Temp. -50 °C Final Hold 0.0 min Inj. Temp. 100 °C Init.Hold 3.0 min
Carrier Gas: Helium Ramp 1 15.0 °C/min to 0°C Flow/Pressure 1.6 mL/min Final Temp. 240 °C Ramp 2 5°C to 150°C
Ramp 3 35°C to 240°C
Other Program or Special Conditions:

GC COLUMN:
Column ID#: MSVOCID014 (Circle one) Packed Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: CC-328925

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1812	0.5L	3	MC051101	0.01060	VK-VSP-33-18
2	LIE0119-CCV1	↓	↓	3	02	↓	↓
3	TB51	RA1865	↓	7	03	0.01048	VK-VSP-33-18
4	TB501	↓	↓	7	04	↓	↓
5	TBLK	5478	0.5L	11	05	1.0	MB
6	AUD0201-08R01		↓	15	06		
7	AUD0229-01	5467	↓	2 1	07	3.5246	
8	02	5442	↓	3 2	08	2.5219	
9	03	RA0884	↓	4 3	09	2.4439	
10	04	5440	0.5L	5 4	10	2.9142	

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
11	AUD0229-05	5463	0.5L	5	MC0511	2.6731	
12	AUD0279-01	RA2306		6	12	2.4249	
13	02	RA0902		7	13	2.4831	
14	03	HL0837		8	14	2.4482	
15	04	HL0930		9	15	2.8619	
16	Dup1	↓		9	16	2.8419	
17	05	HL0785	↓	10	17	3.3091	
18	Dup2	↓	0.5L	10	18	↓	
19							
20							
21							
22							
23							
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32							
33							
34							
35							
36							

Sequence Name: C:\HPCHEM\1\SEQUENCE\CL110511.S
Comment:
Operator: KRW
Data Path: C:\MSVOC3\HPCHEM\3\DATA\C110511\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

5/11/11

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	MC051101	CA110501	WARMUP,,,,0.01060;CCAL
2	Sample	2	MC051102	CA110501	11E0119-CCV1,,,,0.01060;CCAL
3	Sample	3	MC051103	CA110501	11E0119-BS1,,,,0.01048;LCS
4	Sample	4	MC051104	CA110501	11E0119-BSD1,,,,0.01048;LCS
5	Sample	5	MC051105	CA110501	11E0119-BLK1,,,,1.0
6	Sample	6	MC051106	CA110501	AUD0201-08RE1,,,,;TCESL
7	Sample	7	MC051107	CA110501	AUD0229-01,,,,;RRAAM
8	Sample	8	MC051108	CA110501	AUD0229-02,,,,;RRAAM
9	Sample	9	MC051109	CA110501	AUD0229-03,,,,;RRAAM
10	Sample	10	MC051110	CA110501	AUD0229-04,,,;RRAAM
11	Sample	11	MC051111	CA110501	AUD0229-05,,,;RRAAM
12	Sample	12	MC051112	CA110501	AUD0279-01,,,;RRAAM
13	Sample	13	MC051113	CA110501	AUD0279-02,,,;RRAAM
14	Sample	14	MC051114	CA110501	AUD0279-03,,,;RRAAM
15	Sample	15	MC051115	CA110501	AUD0279-04,,,;RRAAM
16	Sample	16	MC051116	CA110501	11E0119-DUP1,,,;RRAAM
17	Sample	17	MC051117	CA110501	AUD0279-05,,,;RRAAM
18	Sample	18	MC051118	CA110501	11E0119-DUP2,,,;RRAAM

----------SEQUENCE TABLE ----------

Sequence Name: C:\Smart\C110511.SEQ
Date: 05-12-2011
Time: 09:10:22
Int. Std Volume: 200 cc

5/12/11
LW

Sample Name	Inlet #	Auto Samp Pos	Cal Vol.	Std Vol.	Method	Time
WARMUP	1	3	500	0	C:\Smart\C030211.MPT	12:00
11E0119-CCV1	1	3	500	0	C:\Smart\C030211.MPT	12:00
11E0119-BS1	1	7	500	0	C:\Smart\C030211.MPT	12:00
11E0119-BSD1	1	7	500	0	C:\Smart\C030211.MPT	12:00
11E0119-BLK1	1	11	500	0	C:\Smart\C030211.MPT	12:00
AUD0201-08RE1	1	15	500	0	C:\Smart\C030211.MPT	12:00
AUD0229-01	1	1	500	0	C:\Smart\C030211.MPT	12:00
AUD0229-02	1	2	500	0	C:\Smart\C030211.MPT	12:00
AUD0229-03	1	3	500	0	C:\Smart\C030211.MPT	12:00
AUD0229-04	1	4	500	0	C:\Smart\C030211.MPT	12:00
AUD0229-05	1	5	500	0	C:\Smart\C030211.MPT	12:00
AUD0279-01	1	6	500	0	C:\Smart\C030211.MPT	12:00
AUD0279-02	1	7	500	0	C:\Smart\C030211.MPT	12:00
AUD0279-03	1	8	500	0	C:\Smart\C030211.MPT	12:00
AUD0279-04	1	9	500	0	C:\Smart\C030211.MPT	12:00
11E0119-DUP1	1	9	500	0	C:\Smart\C030211.MPT	12:00
AUD0279-05	1	10	500	0	C:\Smart\C030211.MPT	12:00
11E0119-DUP2	1	10	500	0	C:\Smart\C030211.MPT	12:00

Internal Standard/Surrogate Check Spreadsheet - Rev 04

Calcheck File name	IS 1 ACs	IS 2 ACs
MC051102.DSV	312466	252993

3/12/14 lew

		Low Tol	High Tol
IS1:	1,1-Dichloro-1-Fluoroethane	50	200
IS2:	Chlorobenzene-d5	50	200

File name	IS 1 ACs	IS 2 ACs	IS 1 % REC		IS 2 % REC	
MC051102.DSV	312466	252993	100		100	
MC051103.DSV	312797	265772	100		105	
MC051104.DSV	335500	263018	107		104	
MC051105.DSV	276506	209022	88		83	
MC051106.DSV	296990	229500	95		91	
MC051107.DSV	276633	187866	89		74	
MC051108.DSV	255001	193448	82		76	
MC051109.DSV	239730	186211	77		74	
MC051110.DSV	248281	202621	79		80	
MC051111.DSV	229478	175337	73		69	
MC051112.DSV	216255	157458	69		62	
MC051113.DSV	222984	163403	71		65	
MC051114.DSV	211674	153349	68		61	
MC051115.DSV	211067	152591	68		60	
MC051116.DSV	211167	153965	68		61	
MC051117.DSV	208859	148695	67		59	
MC051118.DSV	207457	155419	66		61	
			0		0	
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			0		0	

Internal Standard/Surrogate Check Spreadsheet - Rev 04

Calcheck File name
MC051102.DSV

		Low Tol	gh Tol	Spike (ppbV)
SURR1:	2-Bromo-1,1,1-trifluoroethar	70	130	2.00
SURR2:	Fluorobenzene	62	122	2.00
SURR3:	Toluene-d8	67	127	2.00
SURR4:	1,4-Dichlorobutane	76	136	2.00
SURR5:	1,4-Bromofluorobenzene	73	133	2.00

5/12/11 LM

File name	Surr1 % REC		Surr2 % REC		Surr3 % REC		Surr4 % REC		Surr5 % REC	
MC051102.DSV	106		103		104		99		95	
MC051103.DSV	102		103		95		101		97	
MC051104.DSV	103		100		98		100		95	
MC051105.DSV	97		86		91		105		103	
MC051106.DSV	104		95		96		98		95	
MC051107.DSV	102		84		96		103		100	
MC051108.DSV	104		95		98		104		100	
MC051109.DSV	103		94		96		104		99	
MC051110.DSV	111		103		100		97		94	
MC051111.DSV	113		91		96		104		99	
MC051112.DSV	106		86		95		108		103	
MC051113.DSV	103		89		97		108		102	
MC051114.DSV	100		85		94		109		102	
MC051115.DSV	95		84		95		109		104	
MC051116.DSV	100		85		96		110		105	
MC051117.DSV	99		83		96		111		104	
MC051118.DSV	101		86		95		112		103	

BFB

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051102.D Vial: 2
Acq On : 11 May 2011 1:24 pm Operator: KRW
Sample : 11E0119-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.461 to 29.506 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.6	14757	PASS
75	95	30	66	55.3	29590	PASS
95	95	100	100	100.0	53475	PASS
96	95	5	9	6.8	3614	PASS
173	174	0.00	2	0.5	175	PASS
174	95	50	120	69.0	36905	PASS
175	174	4	9	7.5	2776	PASS
176	174	93	101	95.6	35291	PASS
177	176	5	9	6.6	2315	PASS

MC051102.D CA110501.M Wed May 11 14:11:18 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051102.D Vial: 2
Acq On : 11 May 2011 1:24 pm Operator: KRW
Sample : 11E0119-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:24 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

DAH 5-13-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	312466	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	252993	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	141258	2.1195 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 106.00%	
65) Fluorobenzene	19.39	96	330595	2.0562 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 103.00%	
113) Toluene-d8	23.30	98	308716	2.0724 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 103.50%	
115) 1,4-Dichlorobutane	28.40	90	43702	1.9769 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
141) 1,4-Bromofluorobenzene	29.48	95	190858	1.8927 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds						Qvalue
3) Ethylene	3.92	26	12611	2.4462 ppbV	S	98
4) Acetylene	4.02	26	91782	5.4023 ppbV	S	98
5) Ethane	4.11	26	31727	3.9496 ppbV	S	97
7) Propylene	5.68	41	228864	4.8662 ppbV	S	96
9) Propane	5.83	43	98931	4.8561 ppbV	S	92
10) Dichlorodifluoromethane	6.31	85	768208	5.1317 ppbV	S	96
11) Chloromethane	7.14	50	282448	5.0516 ppbV	S	97
12) Isobutane	7.79	43	562767	4.6477 ppbV	S	95
13) Halocarbon 114	7.98	85	742984	4.9173 ppbV	S	86
14) Acetaldehyde	7.95	44	121851	5.6657 ppbV	S	94
15) Vinyl chloride	8.21	62	263846	5.0826 ppbV	S	98
16) 1-Butene/Isobutene	8.64	41	396934	4.9901 ppbV	S	95
17) 1,3-Butadiene	8.75	39	251489	5.4876 ppbV	S	95
18) n-Butane	8.91	43	503289	4.7861 ppbV	S	97
19) Methanol	8.67	31	41548m	3.5386 ppbV	S	
20) trans-2-Butene	9.28	41	359092	5.1765 ppbV	S	96
23) Bromomethane	9.44	94	220032	5.3106 ppbV	S	94
24) cis-2-Butene	9.75	41	381075	5.4762 ppbV	S	97
25) Chloroethane	10.02	64	138931	5.4789 ppbV	S	88
26) Vinyl bromide	10.81	106	250572	7.7240 ppbV	S	93
27) 3-Methyl-1-butene	10.84	55	686541	5.6705 ppbV	S	91
28) Ethanol	10.81	45	66317	5.3498 ppbV	S	89
29) Acetonitrile	10.99	41	245442	6.7133 ppbV	S	98
30) Acrolein	11.23	56	101104	7.7332 ppbV	S	95
31) Isopentane	11.47	41	357548	4.9647 ppbV #	S	35
32) Trichlorofluoromethane	11.74	101	800562	5.8611 ppbV	S	98
33) 1-Pentene	12.05	42	393434	5.7712 ppbV #	S	77
34) Acetone	11.51	43	503328	6.6156 ppbV	S	91
36) Acrylonitrile	12.45	52	185858	7.8743 ppbV	S	94
37) n-Pentane	12.47	43	557862	5.7324 ppbV	S	95
39) Isoprene	12.64	67	263032	6.0668 ppbV	S	81
40) trans-2-Pentene	12.80	55	525961	6.5518 ppbV	S	91
41) 1,1-Dichloroethene	12.89	61	438869	6.1695 ppbV	S	91
42) cis-2-Pentene	13.10	55	518981	6.4164 ppbV	S	91
43) Methylene chloride	13.22	49	362280	5.9608 ppbV	S	84

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051102.D Vial: 2
Acq On : 11 May 2011 1:24 pm Operator: KRW
Sample : 11E0119-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:24 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
44) 2-Methyl-2-butene	13.28	55	562800	6.6385	ppbV		S	91
45) Carbon Disulfide	13.34	76	794994	7.7451	ppbV		S	99
46) 3-Chloropropene	13.39	41	339291	6.7420	ppbV		S	89
47) Halocarbon 113	13.70	151	407250	5.8578	ppbV		S	76
48) Neohexane	13.86	43	487740	5.0631	ppbV	#	S	77
49) Cyclopentene	14.57	67	487966	5.8355	ppbV		S	91
50) trans-1,2-Dichloroethene	14.72	61	373411	6.2788	ppbV		S	85
51) 4-Methyl-1-pentene	14.76	43	502988	5.7762	ppbV		S	92
53) 1,1-Dichloroethane	15.02	63	463152	6.4411	ppbV	#	S	100
54) Cyclopentane	15.02	42	606573	5.5261	ppbV		S	97
55) 2,3-Dimethylbutane	15.12	43	967505	5.5678	ppbV		S	89
56) Methyl tert-butyl ether	15.17	73	652254	5.6482	ppbV		S	91
57) Isohexane	15.33	42	406484	5.7054	ppbV	#	S	64
58) Vinyl acetate	15.41	43	862475	7.2567	ppbV		S	98
62) 2-Butanone	15.69	43	671154	6.9600	ppbV		S	99
63) Chloroprene	15.90	53	470492	6.2492	ppbV	#	S	89
64) 3-Methylpentane	15.93	57	588664	5.9156	ppbV	#	S	1
66) 2-Methyl-1-pentene	16.16	56	496574	6.4904	ppbV		S	89
67) 1-Hexene	16.20	41	290957	5.7063	ppbV		S	97
68) cis-1,2-Dichloroethene	16.32	61	351385	6.3453	ppbV		S	92
69) Bromochloromethane	16.56	130	181542	6.5396	ppbV		S	95
71) n-Hexane	16.69	57	454199	6.5262	ppbV		S	88
72) Chloroform	16.79	83	481453	6.4158	ppbV		S	91
74) trans-2-Hexene	16.90	55	548715	6.7839	ppbV		S	91
77) cis-2-Hexene	17.30	55	453307	6.3869	ppbV		S	93
78) Methylcyclopentane	17.83	56	604515	5.9929	ppbV		S	88
79) 1,2-Dichloroethane	17.84	62	418343	6.6231	ppbV		S	97
80) 2,4-Dimethylpentane	18.00	43	768433	5.7438	ppbV		S	91
81) 1,1,1-Trichloroethane	18.20	97	598897	6.7023	ppbV		S	99
84) Benzene	18.88	78	597240	6.0517	ppbV		S	90
85) Carbon tetrachloride	19.10	117	598098	6.4143	ppbV		S	97
86) 1-Butanol	19.01	56	137819	8.4693	ppbV		S	98
87) Cyclohexane	19.28	56	508344	5.6612	ppbV		S	93
88) Isoheptane	19.65	43	771512	5.6250	ppbV		S	91
89) 2,3-Dimethylpentane	19.74	56	612768	5.6667	ppbV		S	91
91) 3-Methylhexane	20.03	43	599835	5.5313	ppbV		S	86
92) 1,2-Dichloropropane	20.14	63	250218	6.0047	ppbV		S	80
93) Bromodichloromethane	20.47	83	470250	5.7723	ppbV		S	95
94) Trichloroethene	20.53	130	290154	6.2241	ppbV		S	97
95) 1,4-Dioxane	20.54	88	78027	7.4816	ppbV		S	98
97) 2,2,4-Trimethylpentane	20.61	57	1603166	5.7477	ppbV	#	S	41
98) 2-Chloropentane	20.84	70	339745	7.4271	ppbV		S	94
100) n-Heptane	21.08	71	237912	5.7194	ppbV	#	S	44
104) cis-1,3-Dichloropropene	21.91	75	331015	6.5659	ppbV		S	86
105) Methylisobutylketone	21.99	43	868452	7.9144	ppbV		S	83
106) Methylcyclohexane	22.01	83	451425	5.7248	ppbV	#	S	1
110) trans-1,3-Dichloropropene	22.78	75	339772	7.1143	ppbV		S	92
111) 1,1,2-Trichloroethane	23.02	97	238246	6.0355	ppbV		S	91
112) 2,3,4-Trimethylpentane	23.25	43	1006124	5.5073	ppbV		S	87
114) Toluene	23.46	91	716896	6.2104	ppbV		S	96
117) 2-Methylheptane	23.89	43	700423	5.6042	ppbV		S	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051102.D Vial: 2
Acq On : 11 May 2011 1:24 pm Operator: KRW
Sample : 11E0119-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:24 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
119) Dibromochloromethane	24.15	129	439632	7.3136	ppbV		S	98
120) 3-Methylheptane	24.22	85	330130	5.8281	ppbV	#	S	78
122) 1,2-Dibromoethane	24.55	107	375794	6.1151	ppbV		S	99
125) n-Octane	25.28	43	705307	5.4932	ppbV		S	96
126) Tetrachloroethene	25.39	164	261414	6.4573	ppbV		S	93
128) Chlorobenzene	26.60	112	502346	6.1204	ppbV		S	98
129) Ethylbenzene	27.34	91	823277	6.7473	ppbV	#	S	1
130) m/p-Xylene	27.71	91	1427762m	13.4446	ppbV		S	
131) Bromoform	27.74	173	304923	8.6679	ppbV		S	95
134) Styrene	28.38	104	461741	6.8422	ppbV		S	92
135) 1,1,2,2-Tetrachloroethane	28.58	83	447820	5.4313	ppbV		S	97
136) o-Xylene	28.58	91	677921	6.6014	ppbV		S	99
140) n-Nonane	29.18	43	671144	5.8218	ppbV		S	91
142) Isopropylbenzene	29.80	105	921547	7.1136	ppbV		S	97
144) alpha-Pinene	30.59	93	871366	7.0474	ppbV		S	98
147) n-Propylbenzene	30.90	91	1052997	6.2876	ppbV		S	99
148) m-Ethyltoluene	31.16	105	785174	6.8659	ppbV		S	98
149) p-Ethyltoluene	31.24	105	792907	6.3766	ppbV		S	98
150) 1,3,5-Trimethylbenzene	31.44	105	736041	7.5091	ppbV		S	98
151) o-Ethyltoluene	31.83	105	773394	6.8253	ppbV		S	98
152) beta-Pinene	32.11	93	611375	4.4482	ppbV		S	91
153) 1,2,4-Trimethylbenzene	32.36	105	719567	7.3747	ppbV		S	98
156) Benzyl chloride	32.63	91	553154	9.3598	ppbV		S	98
157) m-Dichlorobenzene	32.64	146	454621	6.7200	ppbV		S	98
158) n-Decane	32.79	57	655792	5.6055	ppbV		S	85
159) p-Dichlorobenzene	32.81	146	444173	6.5037	ppbV		S	95
161) 1,2,3-Trimethylbenzene	33.37	105	659414	6.4916	ppbV		S	97
163) o-Dichlorobenzene	33.63	146	427892	6.4653	ppbV		S	98
164) Limonene	33.79	68	358008	7.1331	ppbV		S	92
165) Indan	33.82	117	692451	7.5098	ppbV		S	98
166) Indene	34.05	115	593413	7.2814	ppbV		S	99
167) m-Diethylbenzene	34.24	105	613827	5.5296	ppbV		S	98
168) p-Diethylbenzene	34.47	119	621497	6.5101	ppbV	#	S	1
171) n-Undecane	36.14	57	934691	7.7496	ppbV		S	90
172) 1,2,4-Trichlorobenzene	38.08	180	272404	6.2505	ppbV		S	98
173) Naphthalene	38.26	128	1003122	7.7754	ppbV		S	99
174) Hexachloro-1,3-butadiene	39.02	225	259452	6.8406	ppbV		S	97

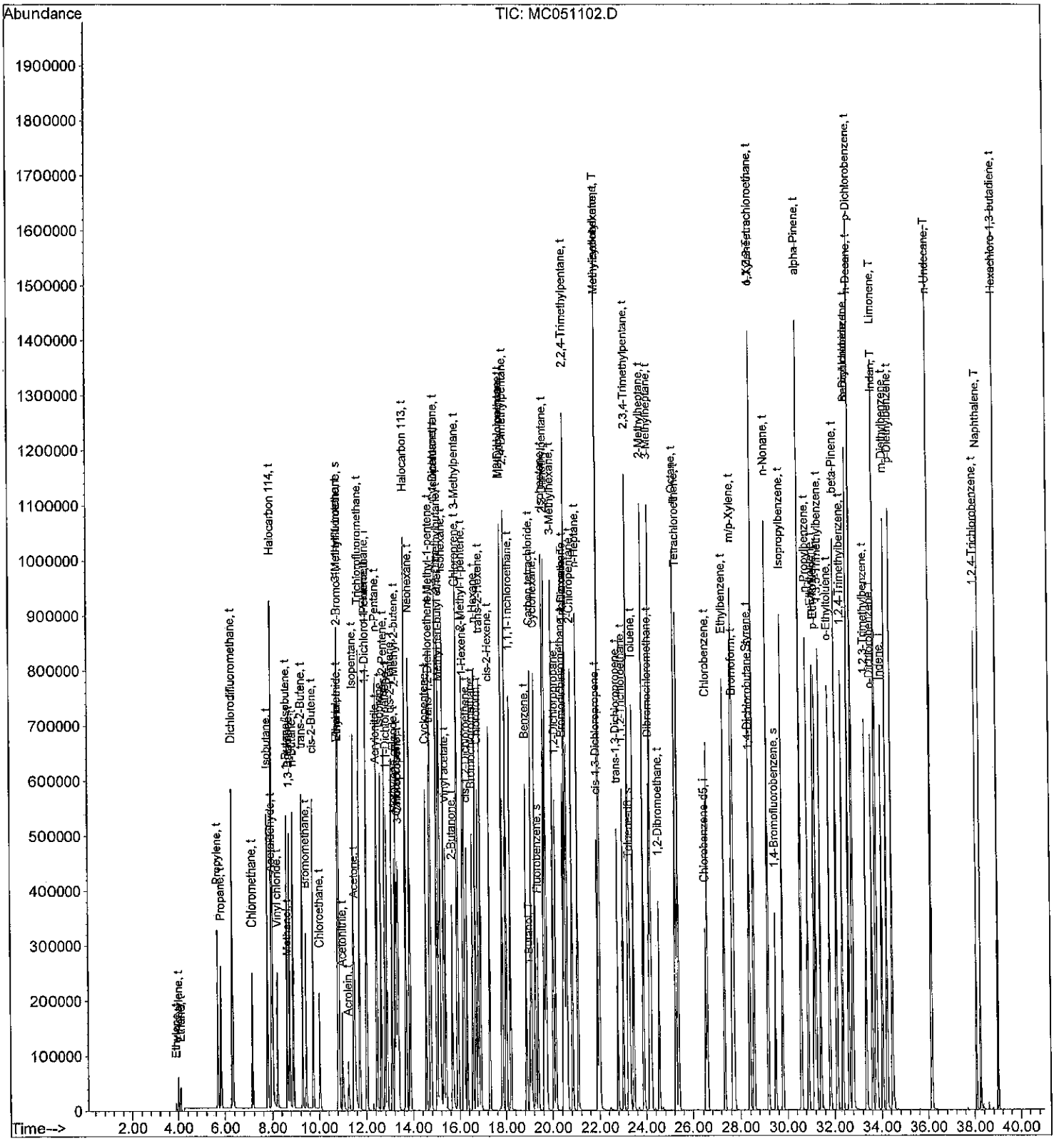
6.8405 [illegible] 6-2-11

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051102.D Vial: 2
Acq On : 11 May 2011 1:24 pm Operator: KRW
Sample : 11E0119-CCV1,,,,0.01060;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:24 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051103.D Vial: 3
Acq On : 11 May 2011 2:27 pm Operator: KRW
Sample : 11E0119-BS1,,,,0.01048;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:28 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

DAH 5-13-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.01	81	312797	2.0000 ppbV	-0.04
82) Chlorobenzene-d5	26.52	117	265772	2.0000 ppbV	-0.02
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	135725	2.0343 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 101.50%	
65) Fluorobenzene	19.39	96	332329	2.0648 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 103.00%	
113) Toluene-d8	23.30	98	296397	1.8941 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 94.50%	
115) 1,4-Dichlorobutane	28.40	90	46860	2.0178 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	29.48	95	205272	1.9378 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 97.00%	

Target Compounds						Qvalue
3) Ethylene	3.91	26	18855	3.6535 ppbV	S	98
4) Acetylene	4.02	26	128291	7.5432 ppbV	S	99
5) Ethane	4.11	26	36787	4.5747 ppbV	S	98
7) Propylene	5.68	41	239374	5.0843 ppbV	S	96
8) Chlorodifluoromethane	6.00	51	647894	5.6663 ppbV	S	95
9) Propane	5.83	43	101099	4.9573 ppbV	S	94
10) Dichlorodifluoromethane	6.31	85	861259	5.7472 ppbV	S	97
11) Chloromethane	7.14	50	316187	5.6490 ppbV	S	97
12) Isobutane	7.79	43	597492	4.9293 ppbV	S	95
13) Halocarbon 114	7.98	85	731802	4.8382 ppbV	S	81
15) Vinyl chloride	8.21	62	294689	5.6707 ppbV	S	99
16) 1-Butene/Isobutene	8.64	41	413873	5.1975 ppbV	S	95
17) 1,3-Butadiene	8.75	39	271284	5.9132 ppbV	S	93
18) n-Butane	8.91	43	523891	4.9767 ppbV	S	98
19) Methanol	8.68	31	42607m	3.6249 ppbV	S	
20) trans-2-Butene	9.28	41	373026	5.3717 ppbV	S	96
23) Bromomethane	9.44	94	245320	5.9147 ppbV	S	94
24) cis-2-Butene	9.75	41	393588	5.6500 ppbV	S	97
25) Chloroethane	10.02	64	151888	5.9835 ppbV	S	87
26) Vinyl bromide	10.80	106	240798	7.4149 ppbV	S	94
27) 3-Methyl-1-butene	10.83	55	713055	5.8832 ppbV	S	92
29) Acetonitrile	10.99	41	228534m	6.2442 ppbV	S	
30) Acrolein	11.22	56	102357	7.8208 ppbV	S	96
31) Isopentane	11.46	41	371125	5.1478 ppbV #	S	36
32) Trichlorofluoromethane	11.73	101	868918	6.3548 ppbV	S	100
33) 1-Pentene	12.03	42	415050	6.0819 ppbV #	S	77
34) Acetone	11.51	43	503931m	6.6165 ppbV	S	
35) 2-Propanol	12.22	45	332243m	7.2228 ppbV	S	
36) Acrylonitrile	12.44	52	175325	7.4202 ppbV	S	97
37) n-Pentane	12.47	43	588001	6.0357 ppbV	S	96
38) Diethyl ether	12.62	74	108316	6.9687 ppbV	S	92
39) Isoprene	12.64	67	282211	6.5023 ppbV	S	83
40) trans-2-Pentene	12.79	55	524912	6.5319 ppbV	S	91
41) 1,1-Dichloroethene	12.88	61	477910	6.7112 ppbV	S	91
42) cis-2-Pentene	13.09	55	529765	6.5428 ppbV	S	90

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051103.D Vial: 3
Acq On : 11 May 2011 2:27 pm Operator: KRW
Sample : 11E0119-BS1,,,,0.01048;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:28 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	13.21	49	391607	6.4365	ppbV		S	83
44)	2-Methyl-2-butene	13.27	55	555837	6.5494	ppbV		S	92
45)	Carbon Disulfide	13.34	76	678521	6.6034	ppbV		S	99
46)	3-Chloropropene	13.38	41	342367	6.7960	ppbV		S	89
47)	Halocarbon 113	13.68	151	460935	6.6230	ppbV		S	76
50)	trans-1,2-Dichloroethene	14.72	61	364898	6.1291	ppbV		S	87
51)	4-Methyl-1-pentene	14.75	43	514857	5.9063	ppbV		S	92
53)	1,1-Dichloroethane	15.01	63	461152	6.4065	ppbV	#	S	100
56)	Methyl tert-butyl ether	15.16	73	734279	6.3517	ppbV		S	95
58)	Vinyl acetate	15.41	43	771048	6.4806	ppbV		S	99
62)	2-Butanone	15.69	43	610494	6.3243	ppbV		S	99
63)	Chloroprene	15.89	53	454187	6.0263	ppbV	#	S	89
68)	cis-1,2-Dichloroethene	16.31	61	358307	6.4634	ppbV		S	91
71)	n-Hexane	16.68	57	433303	6.2194	ppbV		S	89
72)	Chloroform	16.78	83	494833	6.5871	ppbV		S	92
74)	trans-2-Hexene	16.89	55	538330	6.6484	ppbV		S	91
77)	cis-2-Hexene	17.29	55	449640	6.3285	ppbV	#	S	59
79)	1,2-Dichloroethane	17.83	62	396937	6.2776	ppbV		S	96
81)	1,1,1-Trichloroethane	18.19	97	617164	6.8994	ppbV		S	98
84)	Benzene	18.87	78	600962	5.7966	ppbV		S	90
85)	Carbon tetrachloride	19.10	117	698838	7.1343	ppbV		S	98
86)	1-Butanol	19.00	56	134129	7.8463	ppbV		S	98
87)	Cyclohexane	19.27	56	500358	5.3044	ppbV		S	94
92)	1,2-Dichloropropane	20.14	63	254597	5.8160	ppbV		S	79
93)	Bromodichloromethane	20.46	83	521858	6.0978	ppbV		S	95
94)	Trichloroethene	20.52	130	290632	5.9346	ppbV		S	96
95)	1,4-Dioxane	20.54	88	69204	6.3165	ppbV		S	98
97)	2,2,4-Trimethylpentane	20.60	57	1565279	5.3420	ppbV	#	S	41
98)	2-Chloropentane	20.83	70	299706	6.2368	ppbV		S	94
100)	n-Heptane	21.07	71	229953	5.2623	ppbV	#	S	45
104)	cis-1,3-Dichloropropene	21.91	75	354606	6.6956	ppbV		S	86
105)	Methylisobutylketone	21.98	43	761660	6.6074	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.77	75	318908	6.3564	ppbV		S	92
111)	1,1,2-Trichloroethane	23.02	97	243806	5.8794	ppbV		S	91
114)	Toluene	23.45	91	708535	5.8428	ppbV		S	98
116)	2-Hexanone	23.98	43	733097	6.4098	ppbV		S	94
119)	Dibromochloromethane	24.15	129	495354	7.8443	ppbV		S	99
122)	1,2-Dibromoethane	24.55	107	378139	5.8574	ppbV		S	99
125)	n-Octane	25.27	43	675716	5.0097	ppbV		S	96
126)	Tetrachloroethene	25.39	164	264175	6.2118	ppbV		S	94
128)	Chlorobenzene	26.60	112	514548	5.9677	ppbV		S	97
129)	Ethylbenzene	27.34	91	841936	6.5684	ppbV	#	S	1
130)	m/p-Xylene	27.71	91	1464722m	13.1295	ppbV		S	
131)	Bromoform	27.74	173	373418	10.1046	ppbV		S	94
134)	Styrene	28.38	104	474712	6.6962	ppbV		S	93
135)	1,1,2,2-Tetrachloroethane	28.57	83	461277	5.3255	ppbV		S	97
136)	o-Xylene	28.58	91	698031	6.4704	ppbV		S	98
140)	n-Nonane	29.18	43	666206	5.5011	ppbV		S	92
142)	Isopropylbenzene	29.80	105	940318	6.9095	ppbV		S	97
145)	o/m-Chlorotoluene	30.75	91	625071	6.2305	ppbV		S	91
147)	n-Propylbenzene	30.90	91	1055361	5.9987	ppbV		S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051103.D Vial: 3
Acq On : 11 May 2011 2:27 pm Operator: KRW
Sample : 11E0119-BS1,,,,0.01048;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:28 19111 Quant Results File: CA110501.RES

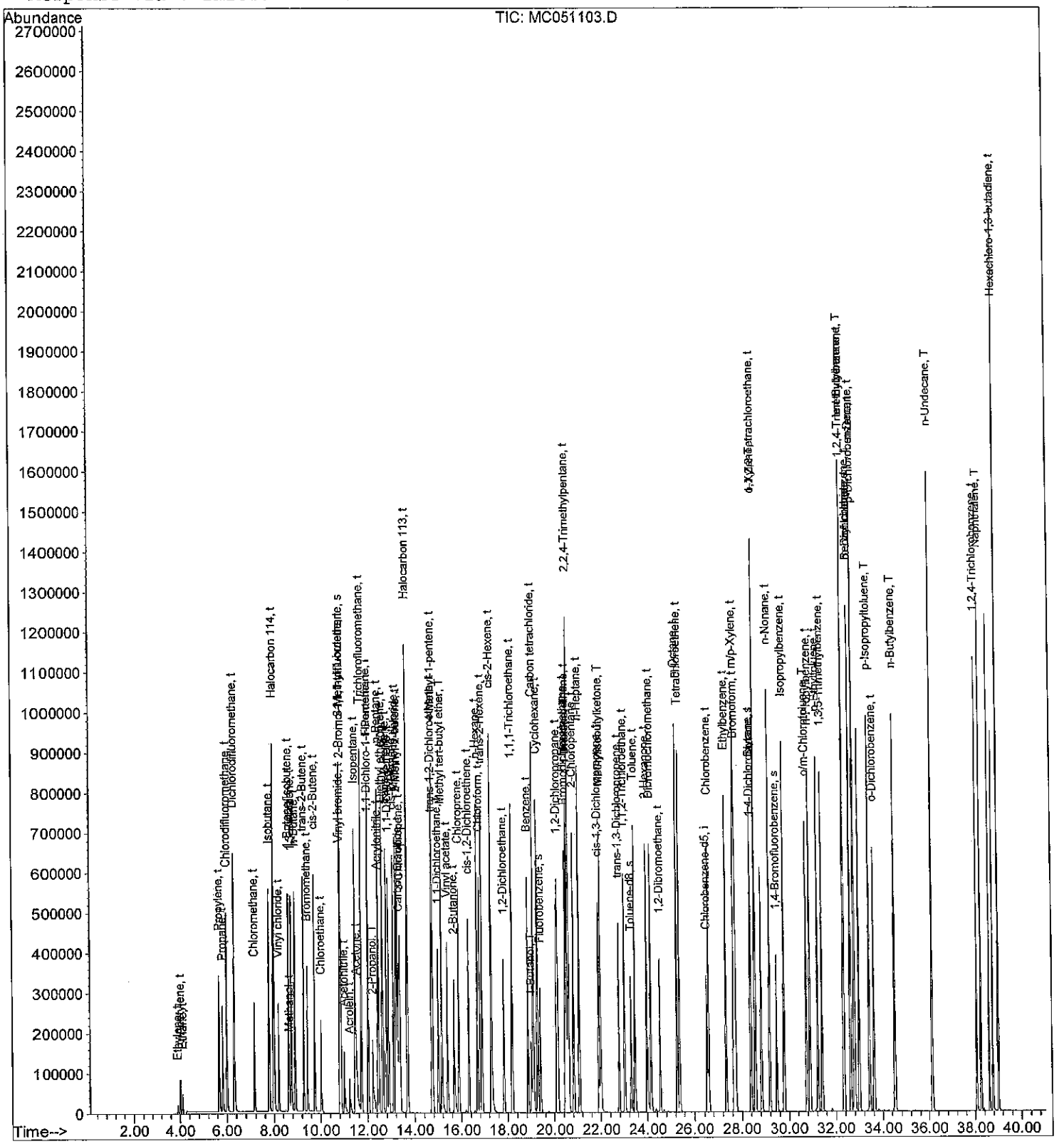
Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
149) p-Ethyltoluene	31.23	105	884940	6.7746	ppbV	S	99
150) 1,3,5-Trimethylbenzene	31.43	105	740838	7.1946	ppbV	S	97
153) 1,2,4-Trimethylbenzene	32.36	105	743949	7.2580	ppbV #	S	76
154) tert-Butylbenzene	32.34	119	920502	8.0439	ppbV	S	86
156) Benzyl chloride	32.63	91	605483	9.7526	ppbV	S	98
157) m-Dichlorobenzene	32.63	146	446600	6.2840	ppbV	S	97
158) n-Decane	32.79	57	619877	5.0437	ppbV	S	85
159) p-Dichlorobenzene	32.81	146	440671	6.1422	ppbV	S	95
162) p-Isopropyltoluene	33.43	119	922730	6.7943	ppbV	S	95
163) o-Dichlorobenzene	33.63	146	418298	6.0165	ppbV	S	99
169) n-Butylbenzene	34.51	91	908286	6.0638	ppbV	S	99
171) n-Undecane	36.14	57	923599	7.2894	ppbV	S	89
172) 1,2,4-Trichlorobenzene	38.08	180	359849	7.8599	ppbV	S	98
173) Naphthalene	38.26	128	1147361	8.4658	ppbV	S	99
174) Hexachloro-1,3-butadiene	39.02	225	351471	8.8212	ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051103.D Vial: 3
Acq On : 11 May 2011 2:27 pm Operator: KRW
Sample : 11E0119-BS1,,,,0.01048;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:28 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051104.D Vial: 4
Acq On : 11 May 2011 3:30 pm Operator: KRW
Sample : 11E0119-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:30 19111 Quant Results File: CA110501.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

AMK 5-13-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.01	81	335500	2.0000 ppbV	-0.04
82) Chlorobenzene-d5	26.52	117	263018	2.0000 ppbV	-0.02
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.85	83	147369	2.0594 ppbV	-0.03
Spiked Amount 2.000			Recovery	= 103.00%	
65) Fluorobenzene	19.39	96	345023	1.9986 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 100.00%	
113) Toluene-d8	23.30	98	302877	1.9557 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.40	90	45734	1.9900 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 99.50%	
141) 1,4-Bromofluorobenzene	29.48	95	199492	1.9029 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 95.00%	

Target Compounds						Qvalue
3) Ethylene	3.91	26	21807	3.9396 ppbV	S	98
4) Acetylene	4.02	26	143679	7.8763 ppbV	S	99
5) Ethane	4.11	26	37987	4.4043 ppbV	S	98
7) Propylene	5.68	41	244407	4.8399 ppbV	S	96
8) Chlorodifluoromethane	6.00	51	651439	5.3118 ppbV	S	95
9) Propane	5.83	43	102215	4.6728 ppbV	S	95
10) Dichlorodifluoromethane	6.31	85	866126	5.3885 ppbV	S	97
11) Chloromethane	7.14	50	322440	5.3709 ppbV	S	97
12) Isobutane	7.79	43	609070	4.6848 ppbV	S	95
13) Halocarbon 114	7.98	85	739236	4.5566 ppbV	S	83
15) Vinyl chloride	8.21	62	297907	5.3447 ppbV	S	99
16) 1-Butene/Isobutene	8.64	41	405026	4.7422 ppbV	S	95
17) 1,3-Butadiene	8.75	39	265331	5.3921 ppbV	S	93
18) n-Butane	8.91	43	527101	4.6684 ppbV	S	98
19) Methanol	8.68	31	40314m	3.1977 ppbV	S	
20) trans-2-Butene	9.28	41	362772	4.8706 ppbV	S	95
23) Bromomethane	9.44	94	244044	5.4858 ppbV	S	94
24) cis-2-Butene	9.75	41	384635	5.1478 ppbV	S	96
25) Chloroethane	10.02	64	147481	5.4167 ppbV	S	88
26) Vinyl bromide	10.80	106	229785	6.5969 ppbV	S	93
27) 3-Methyl-1-butene	10.83	55	714274	5.4945 ppbV	S	92
29) Acetonitrile	10.99	41	218412m	5.5638 ppbV	S	
30) Acrolein	11.22	56	98547	7.0201 ppbV	S	98
31) Isopentane	11.46	41	371052	4.7985 ppbV #	S	35
32) Trichlorofluoromethane	11.73	101	865158	5.8991 ppbV	S	99
33) 1-Pentene	12.03	42	399840	5.4625 ppbV #	S	78
34) Acetone	11.51	43	487170m	5.9636 ppbV	S	
35) 2-Propanol	12.22	45	379798m	7.6979 ppbV	S	
36) Acrylonitrile	12.44	52	166696	6.5776 ppbV	S	94
37) n-Pentane	12.46	43	561594	5.3745 ppbV	S	96
38) Diethyl ether	12.62	74	105340	6.3187 ppbV	S	95
39) Isoprene	12.63	67	271541	5.8331 ppbV	S	83
40) trans-2-Pentene	12.79	55	500831	5.8105 ppbV	S	92
41) 1,1-Dichloroethene	12.88	61	452599	5.9257 ppbV	S	91
42) cis-2-Pentene	13.09	55	505425	5.8198 ppbV	S	90

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051104.D Vial: 4
Acq On : 11 May 2011 3:30 pm Operator: KRW
Sample : 11E0119-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:30 19111 Quant Results File: CA110501.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	13.21	49	372798	5.7127	ppbV		S	84
44)	2-Methyl-2-butene	13.28	55	537269	5.9022	ppbV		S	92
45)	Carbon Disulfide	13.34	76	649292	5.8913	ppbV		S	100
46)	3-Chloropropene	13.38	41	326773	6.0475	ppbV		S	88
47)	Halocarbon 113	13.68	151	470404	6.3016	ppbV		S	78
50)	trans-1,2-Dichloroethene	14.72	61	345045	5.4035	ppbV		S	87
51)	4-Methyl-1-pentene	14.76	43	506527	5.4175	ppbV		S	93
53)	1,1-Dichloroethane	15.01	63	442568	5.7323	ppbV	#	S	100
56)	Methyl tert-butyl ether	15.15	73	742459	5.9879	ppbV		S	95
58)	Vinyl acetate	15.41	43	725923	5.6885	ppbV		S	99
62)	2-Butanone	15.69	43	587125	5.6706	ppbV		S	99
63)	Chloroprene	15.89	53	427539	5.2888	ppbV	#	S	89
68)	cis-1,2-Dichloroethene	16.32	61	337912	5.6830	ppbV		S	93
71)	n-Hexane	16.68	57	413168	5.5291	ppbV		S	90
72)	Chloroform	16.79	83	467212	5.7985	ppbV		S	93
74)	trans-2-Hexene	16.89	55	509506	5.8666	ppbV		S	92
77)	cis-2-Hexene	17.29	55	426298	5.5940	ppbV	#	S	63
79)	1,2-Dichloroethane	17.83	62	370285	5.4598	ppbV		S	98
81)	1,1,1-Trichloroethane	18.19	97	605626	6.3123	ppbV		S	99
84)	Benzene	18.87	78	570398	5.5594	ppbV		S	89
85)	Carbon tetrachloride	19.10	117	681812	7.0334	ppbV		S	98
86)	1-Butanol	19.00	56	147229	8.7028	ppbV		S	97
87)	Cyclohexane	19.27	56	496255	5.3160	ppbV		S	94
92)	1,2-Dichloropropane	20.14	63	241777	5.5809	ppbV		S	79
93)	Bromodichloromethane	20.46	83	490270	5.7886	ppbV		S	95
94)	Trichloroethene	20.52	130	273302	5.6392	ppbV		S	97
95)	1,4-Dioxane	20.53	88	67114	6.1899	ppbV		S	98
97)	2,2,4-Trimethylpentane	20.61	57	1534487	5.2918	ppbV	#	S	41
98)	2-Chloropentane	20.83	70	285780	6.0093	ppbV		S	92
100)	n-Heptane	21.07	71	218151	5.0445	ppbV	#	S	47
104)	cis-1,3-Dichloropropene	21.91	75	330744	6.3104	ppbV		S	86
105)	Methylisobutylketone	21.98	43	745043	6.5310	ppbV		S	97
110)	trans-1,3-Dichloropropene	22.77	75	297180	5.9853	ppbV		S	92
111)	1,1,2-Trichloroethane	23.02	97	229258	5.5864	ppbV		S	91
114)	Toluene	23.46	91	665892	5.5487	ppbV		S	98
116)	2-Hexanone	23.97	43	718438	6.3474	ppbV		S	94
119)	Dibromochloromethane	24.15	129	462477	7.4004	ppbV		S	99
122)	1,2-Dibromoethane	24.55	107	352710	5.5207	ppbV		S	99
125)	n-Octane	25.27	43	638317	4.7819	ppbV		S	96
126)	Tetrachloroethene	25.39	164	248703	5.9092	ppbV		S	93
128)	Chlorobenzene	26.60	112	483232	5.6631	ppbV		S	98
129)	Ethylbenzene	27.34	91	790661	6.2330	ppbV	#	S	1
130)	m/p-Xylene	27.71	91	1369618m	12.4055	ppbV		S	
131)	Bromoform	27.74	173	350173	9.5748	ppbV		S	95
134)	Styrene	28.38	104	443387	6.3198	ppbV		S	93
135)	1,1,2,2-Tetrachloroethane	28.57	83	434207	5.0655	ppbV		S	96
136)	o-Xylene	28.58	91	656123	6.1456	ppbV		S	98
140)	n-Nonane	29.18	43	622764	5.1962	ppbV		S	92
142)	Isopropylbenzene	29.80	105	887387	6.5888	ppbV		S	98
145)	o/m-Chlorotoluene	30.76	91	582871	5.8707	ppbV		S	92
147)	n-Propylbenzene	30.90	91	982365	5.6423	ppbV		S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051104.D Vial: 4
Acq On : 11 May 2011 3:30 pm Operator: KRW
Sample : 11E0119-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:30 19111 Quant Results File: CA110501.RES

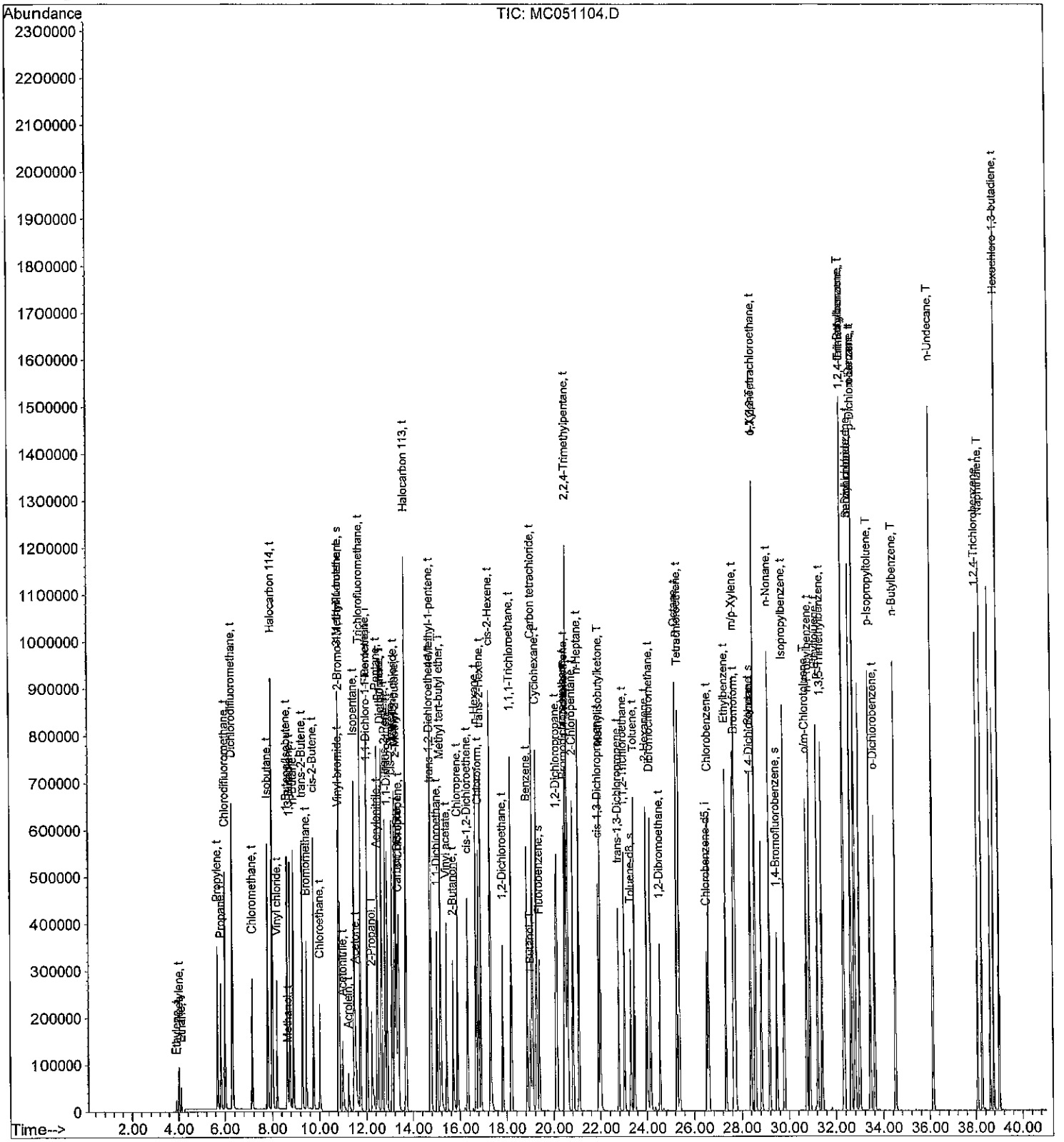
Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
149) p-Ethyltoluene	31.23	105	826365	6.3924	ppbV	S	98
150) 1,3,5-Trimethylbenzene	31.43	105	687727	6.7488	ppbV	S	97
153) 1,2,4-Trimethylbenzene	32.36	105	696399	6.8653	ppbV #	S	72
154) tert-Butylbenzene	32.34	119	873378	7.7120	ppbV	S	87
156) Benzyl chloride	32.63	91	570392	9.2836	ppbV	S	99
157) m-Dichlorobenzene	32.64	146	418423	5.9492	ppbV	S	98
158) n-Decane	32.79	57	585309	4.8123	ppbV	S	85
159) p-Dichlorobenzene	32.81	146	407001	5.7323	ppbV	S	95
162) p-Isopropyltoluene	33.43	119	881331	6.5574	ppbV	S	95
163) o-Dichlorobenzene	33.63	146	395739	5.7516	ppbV	S	99
169) n-Butylbenzene	34.51	91	882723	5.9548	ppbV	S	99
171) n-Undecane	36.14	57	867642	6.9195	ppbV	S	90
172) 1,2,4-Trichlorobenzene	38.08	180	320999	7.0848	ppbV	S	98
173) Naphthalene	38.26	128	1024956	7.6418	ppbV	S	99
174) Hexachloro-1,3-butadiene	39.02	225	305342	7.7437	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051104.D Vial: 4
Acq On : 11 May 2011 3:30 pm Operator: KRW
Sample : 11E0119-BSD1,,,,0.01062;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:30 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051105.D Vial: 5
Acq On : 11 May 2011 4:33 pm Operator: KRW
Sample : 11E0119-BLK1 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:33 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

5-13-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	276506	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.53	117	209022	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	114275	1.9376 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 97.00%	
65) Fluorobenzene	19.39	96	243356	1.7104 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 85.50%	
113) Toluene-d8	23.30	98	224573	1.8247 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 91.00%	
115) 1,4-Dichlorobutane	28.40	90	38292	2.0966 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 105.00%	
141) 1,4-Bromofluorobenzene	29.48	95	172151	2.0663 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 103.50%	

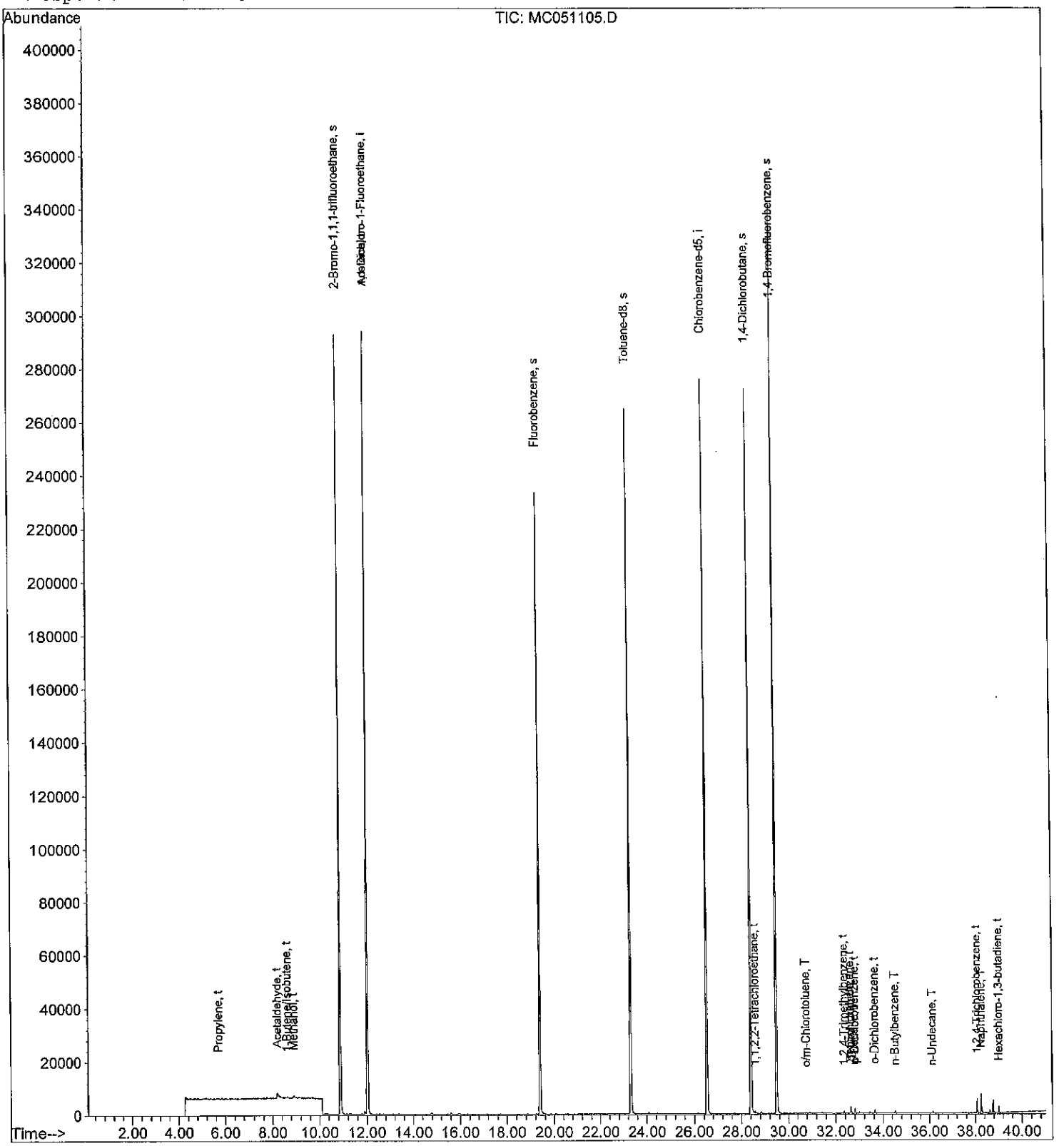
Target Compounds					Qvalue
7) Propylene	5.70	41	241	0.0058 ppbV #	25
14) Acetaldehyde	8.20	44	4023m	0.2114 ppbV	
16) 1-Butene/Isobutene	8.62	41	395	0.0056 ppbV #	55
19) Methanol	8.89	31	1321m	0.1271 ppbV	
34) Acetone	12.02	43	5798m	0.0861 ppbV	
135) 1,1,2,2-Tetrachloroethane	28.59	83	420	0.0062 ppbV	86
145) o/m-Chlorotoluene	30.76	91	512	0.0065 ppbV #	49
153) 1,2,4-Trimethylbenzene	32.36	105	460	0.0057 ppbV #	64
156) Benzyl chloride	32.64	91	1347	0.0276 ppbV	63
157) m-Dichlorobenzene	32.64	146	971	0.0174 ppbV	88
158) n-Decane	32.79	57	248	0.0026 ppbV #	70
159) p-Dichlorobenzene	32.81	146	1186	0.0210 ppbV	88
163) o-Dichlorobenzene	33.63	146	1048	0.0192 ppbV	90
169) n-Butylbenzene	34.52	91	1157	0.0098 ppbV	73
171) n-Undecane	36.13	57	200	0.0020 ppbV #	69
172) 1,2,4-Trichlorobenzene	38.09	180	1995	0.0554 ppbV	89
173) Naphthalene	38.26	128	7258	0.0681 ppbV	96
174) Hexachloro-1,3-butadiene	39.01	225	490	0.0156 ppbV	83

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051105.D Vial: 5
Acq On : 11 May 2011 4:33 pm Operator: KRW
Sample : 11E0119-BLK1 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:33 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051106.D Vial: 6
Acq On : 11 May 2011 5:35 pm Operator: KRW
Sample : AUD0201-08RE1,,,,;TCESL Inst : VMSC
Misc : 2.6909,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:36 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.02	81	296990	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.52	117	229500	2.0000 ppbV	-0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.86	83	132350	2.0893 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	19.39	96	289868	1.8968 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 95.00%	
113) Toluene-d8	23.30	98	258830	1.9154 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 96.00%	
115) 1,4-Dichlorobutane	28.40	90	39420	1.9657 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
141) 1,4-Bromofluorobenzene	29.48	95	174549	1.9082 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 95.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.02	51	9848	0.0907 ppbV	S	96
10) Dichlorodifluoromethane	6.34	85	12941	0.0910 ppbV	S	95
11) Chloromethane	7.15	50	6307	0.1187 ppbV	S	99
18) n-Butane	8.92	43	9742	0.0975 ppbV	S	90
29) Acetonitrile	11.15	41	1243m	0.0358 ppbV	S	
32) Trichlorofluoromethane	11.74	101	6145	0.0473 ppbV	S	94
34) Acetone	11.55	43	227249m	3.1425 ppbV	S	
37) n-Pentane	12.48	43	7807	0.0844 ppbV	S	91
43) Methylene chloride	13.22	49	1734	0.0300 ppbV	S	83
45) Carbon Disulfide	13.35	76	26038	0.2669 ppbV	S	98
47) Halocarbon 113	13.71	151	855	0.0129 ppbV	S	77
50) trans-1,2-Dichloroethene	14.75	61	844	0.0149 ppbV	S	82
58) Vinyl acetate	15.40	43	13369	0.1183 ppbV	S	94
62) 2-Butanone	15.78	43	22869m	0.2495 ppbV	S	
68) cis-1,2-Dichloroethene	16.33	61	58251	1.1067 ppbV	S	92
71) n-Hexane	16.68	57	1040	0.0157 ppbV	S	84
72) Chloroform	16.79	83	381	0.0053 ppbV	S	82
84) Benzene	18.88	78	2382	0.0266 ppbV	S	85
85) Carbon tetrachloride	19.10	117	1468	0.0174 ppbV	S	85
87) Cyclohexane	19.28	56	321	0.0039 ppbV #	S	78
94) Trichloroethene	20.53	130	484	0.0114 ppbV	S	95
100) n-Heptane	21.08	71	85	0.0023 ppbV #	S	42
105) Methylisobutylketone	22.05	43	3439	0.0345 ppbV	S	89
114) Toluene	23.47	91	7938	0.0758 ppbV	S	88
116) 2-Hexanone	24.02	43	4454	0.0451 ppbV	S	94
125) n-Octane	25.28	43	455	0.0039 ppbV #	S	42
126) Tetrachloroethene	25.39	164	2114	0.0576 ppbV	S	89
129) Ethylbenzene	27.35	91	823	0.0074 ppbV #	S	1
130) m/p-Xylene	27.68	91	2105	0.0219 ppbV	S	89
134) Styrene	28.38	104	1760	0.0287 ppbV #	S	1
136) o-Xylene	28.58	91	1270	0.0136 ppbV	S	75
140) n-Nonane	29.18	43	1080	0.0103 ppbV #	S	63
147) n-Propylbenzene	30.90	91	811	0.0053 ppbV	S	69
150) 1,3,5-Trimethylbenzene	31.43	105	1093	0.0123 ppbV	S	80
153) 1,2,4-Trimethylbenzene	32.36	105	4806	0.0543 ppbV	S	92

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

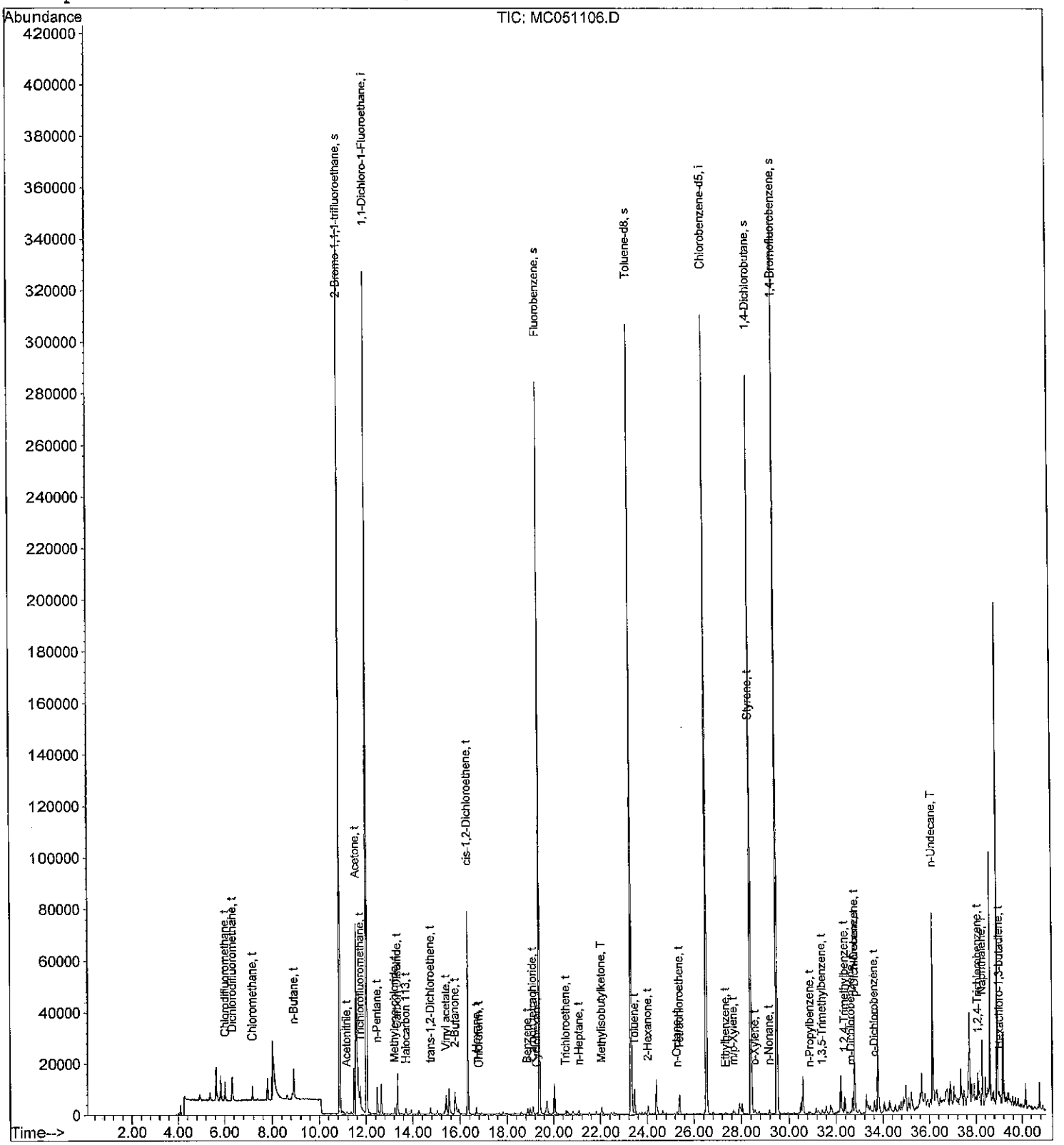
Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051106.D Vial: 6
Acq On : 11 May 2011 5:35 pm Operator: KRW
Sample : AUD0201-08RE1,,,,;TCESL Inst : VMSC
Misc : 2.6909,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:36 19111 Quant Results File: CA110501.RES

Quant Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration
DataAcq Meth : CA110501

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
157) m-Dichlorobenzene	32.64	146	451	0.0073 ppbV	S	84
158) n-Decane	32.79	57	17202	0.1621 ppbV	S	72
159) p-Dichlorobenzene	32.81	146	892	0.0144 ppbV	S	84
163) o-Dichlorobenzene	33.62	146	463	0.0077 ppbV #	S	53
171) n-Undecane	36.13	57	37423	0.3420 ppbV	S	86
172) 1,2,4-Trichlorobenzene	38.08	180	1427	0.0361 ppbV	S	89
173) Naphthalene	38.26	128	16951	0.1448 ppbV	S	98
174) Hexachloro-1,3-butadiene	39.02	225	357	0.0104 ppbV #	S	43

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C110511\MC051106.D Vial: 6
Acq On : 11 May 2011 5:35 pm Operator: KRW
Sample : AUD0201-08RE1,,,,;TCESL Inst : VMSC
Misc : 2.6909,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:36 19111 Quant Results File: CA110501.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA110501.M (RTE Integrator)
Title :
Last Update : Mon May 02 15:07:57 2011
Response via : Initial Calibration